Full wwPDB EM Validation Report ⓘ

Dec 16, 2024 – 08:23 PM EST

PDB ID	:	5W65
EMDB ID	:	EMD-8775
Title	:	RNA polymerase I Initial Transcribing Complex State 2
Authors	:	Han, Y.; He, Y.
Deposited on	:	2017-06-16
Resolution	:	4.30 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:

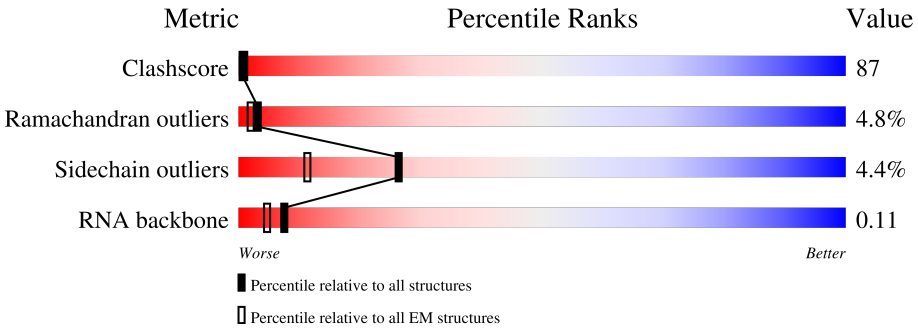
EMDB validation analysis	:	0.0.1.dev113
MolProbity	:	4.02b-467
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	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 4.30 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	37% 49% 12%
2	B	1203	41% 54%
3	C	335	40% 50% 9%
4	D	137	19% 24% 57%
5	E	215	35% 63%
6	F	155	20% 34% 46%
7	G	326	5% 17% 44% 38%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
8	H	146	29% 62% 9%
9	I	125	21% 29% 48%
10	J	70	36% 63%
11	K	142	37% 35% 27%
12	L	70	23% 41% 36%
13	M	415	5% 6% 19% 74%
14	N	233	22% 23% 43% 32%
15	O	894	8% 15% 44% 9% 28%
16	P	514	19% 13% 53% 20% 7% 6%
17	Q	507	8% 21% 30% 14% 31%
18	R	6	100% 50% 17% 33%
19	S	54	7% 30% 43% 11% 17%
20	T	54	22% 41% 43% 15%

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
21	ZN	A	1701	-	-	X	-

2 Entry composition (i)

There are 21 unique types of molecules in this entry. The entry contains 47308 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	2431	1544	417	462	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	1759	1116	310	321	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
			1070	676	181	209	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
			810	506	132	167	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
			358	221	71	62	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	HIS	SEE REMARK 999	UNP P32786
O	4	UNK	PHE	SEE REMARK 999	UNP P32786
O	5	UNK	PHE	SEE REMARK 999	UNP P32786
O	6	UNK	LYS	SEE REMARK 999	UNP P32786
O	7	UNK	LYS	SEE REMARK 999	UNP P32786
O	8	UNK	VAL	SEE REMARK 999	UNP P32786
O	9	UNK	ASP	SEE REMARK 999	UNP P32786
O	10	UNK	VAL	SEE REMARK 999	UNP P32786
O	11	UNK	GLY	SEE REMARK 999	UNP P32786
O	12	UNK	ASN	SEE REMARK 999	UNP P32786
O	13	UNK	ASP	SEE REMARK 999	UNP P32786
O	14	UNK	SER	SEE REMARK 999	UNP P32786
O	15	UNK	MET	SEE REMARK 999	UNP P32786
O	16	UNK	PHE	SEE REMARK 999	UNP P32786
O	17	UNK	GLY	SEE REMARK 999	UNP P32786
O	18	UNK	VAL	SEE REMARK 999	UNP P32786
O	19	UNK	ASN	SEE REMARK 999	UNP P32786
O	20	UNK	CYS	SEE REMARK 999	UNP P32786
O	21	UNK	ASP	SEE REMARK 999	UNP P32786
O	22	UNK	THR	SEE REMARK 999	UNP P32786
O	23	UNK	PRO	SEE REMARK 999	UNP P32786
O	24	UNK	VAL	SEE REMARK 999	UNP P32786
O	25	UNK	SER	SEE REMARK 999	UNP P32786
O	26	UNK	PHE	SEE REMARK 999	UNP P32786
O	27	UNK	GLN	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	481	Total	C	N	O	S	0	0
			3978	2553	681	722	22		

- 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	45	Total	C	N	O	P	0	0
			935	447	174	270	44		

- 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).

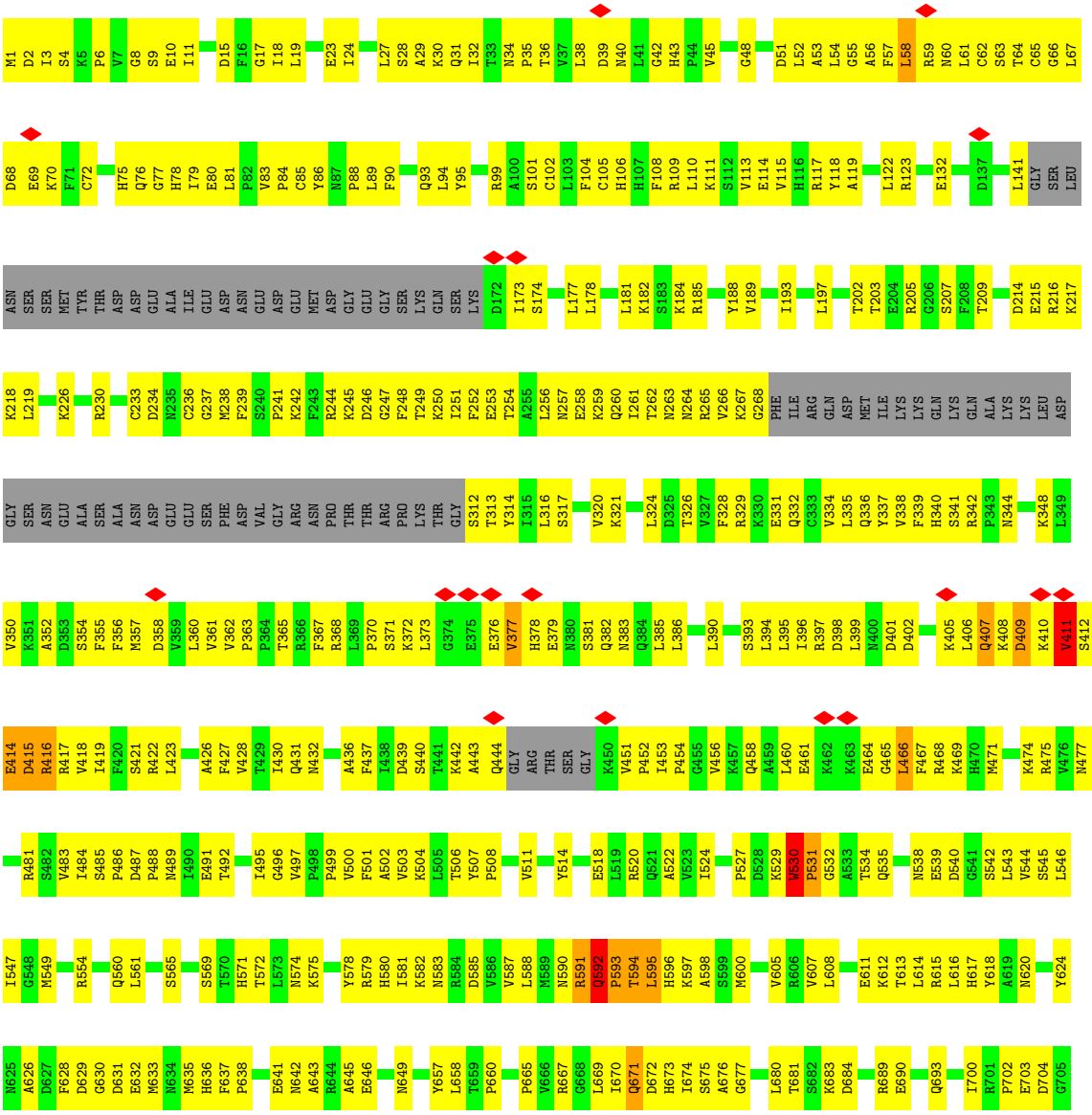
Mol	Chain	Residues	Atoms		AltConf
21	A	2	Total	Zn	0
			2	2	
21	B	1	Total	Zn	0
			1	1	
21	I	1	Total	Zn	0
			1	1	
21	J	1	Total	Zn	0
			1	1	
21	L	1	Total	Zn	0
			1	1	
21	P	1	Total	Zn	0
			1	1	

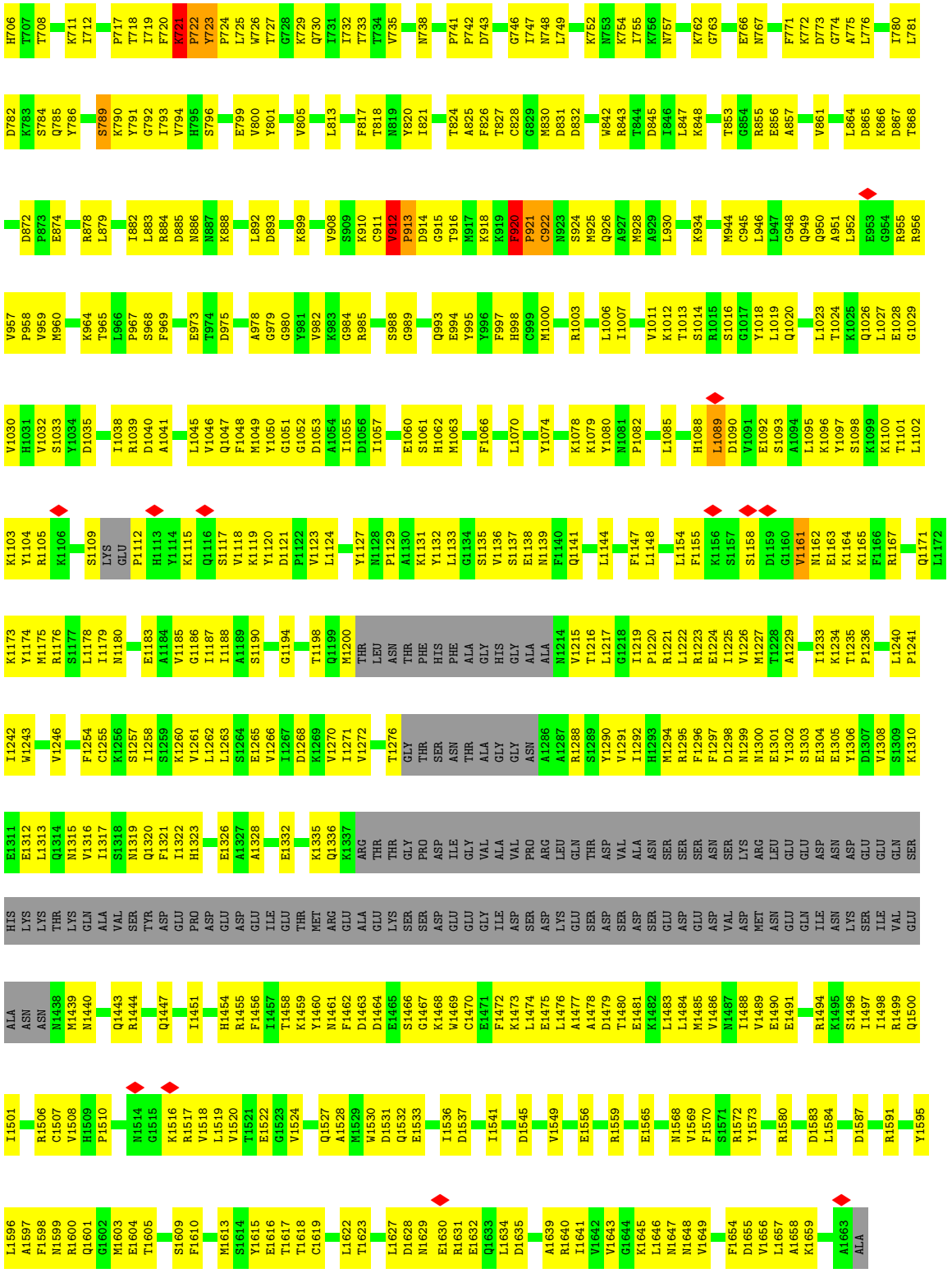
3 Residue-property plots (i)

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

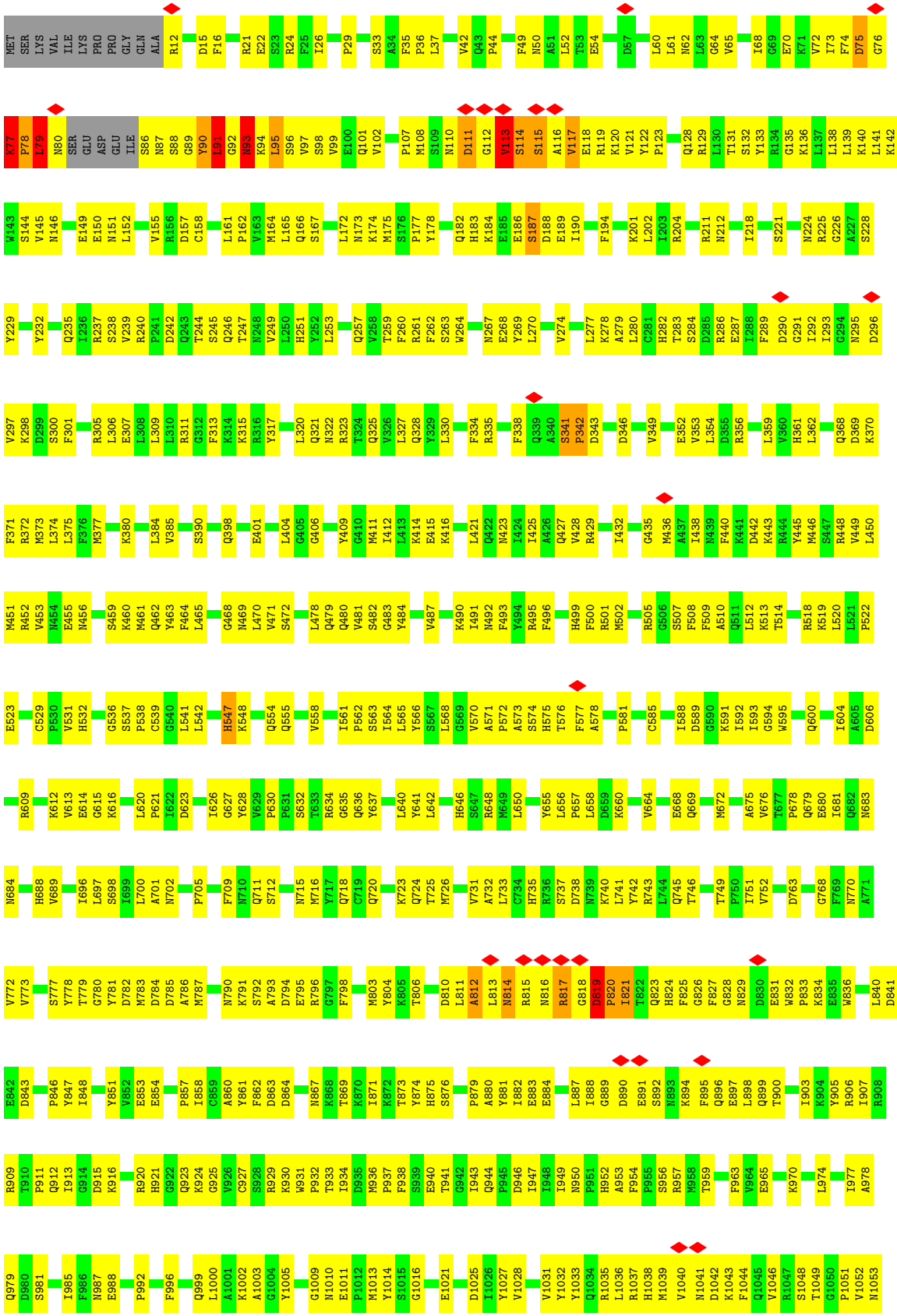
Chain A:

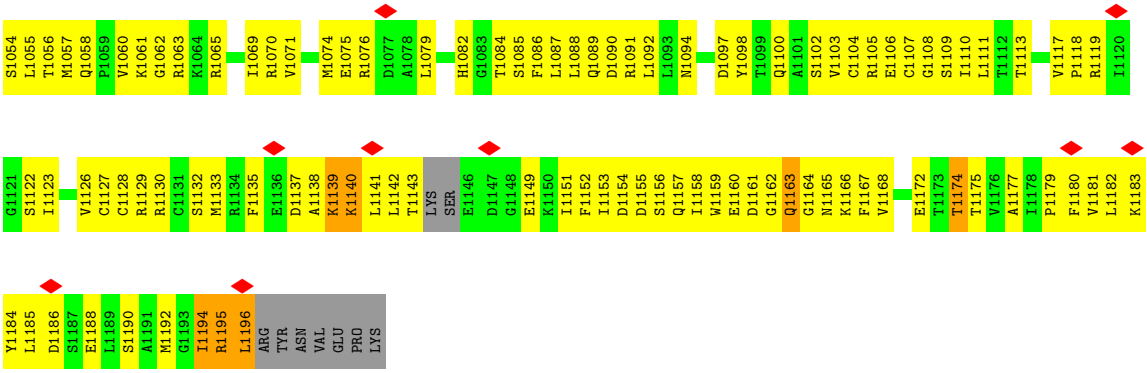




• Molecule 2: DNA-directed RNA polymerase I subunit RPA135

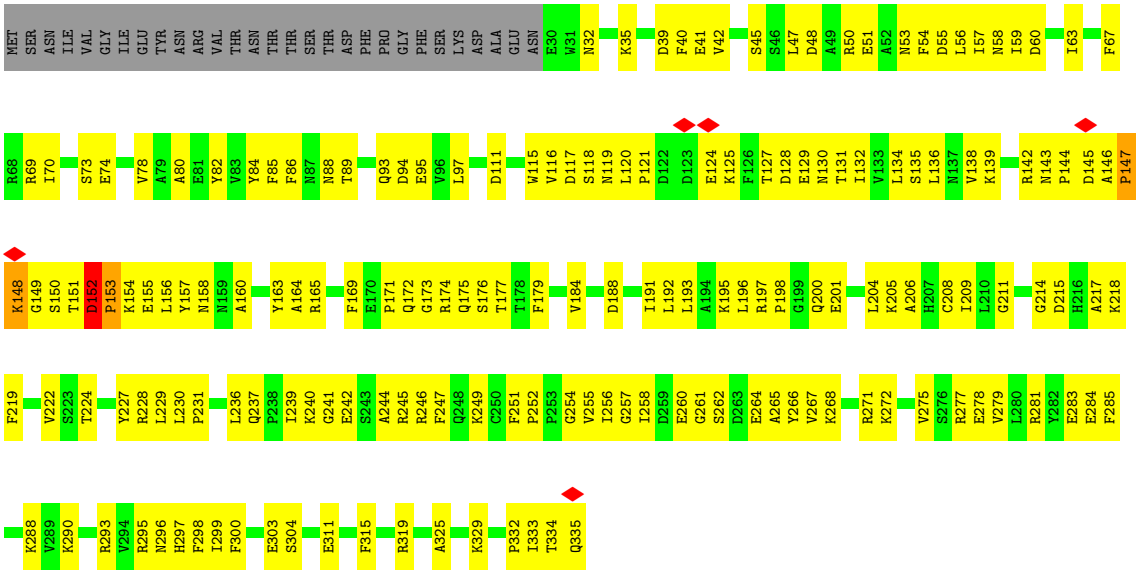
Chain B:


MET SER LYS VAL ILE LYS PRO PRO GLY GLN ALA R12 D15 F16 R21 E22 S23 R24 F25 I26 P29 S33 A34 F35 P36 L37 V42 Q43 P44 F49 N50 A51 L52 T53 E54 D57 L60 L61 N62 L63 G64 V65 I68 G69 E70 K71 V72 I73 F74 D75 G76
K77 P78 L79 N80 SER GLU ASP GLU ILE S86 N87 S88 G89 Y90 L91 G92 N93 K94 L95 S96 V97 S98 V99 E100 Q101 V102 P107 M108 S109 N110 D111 G112 V113 S114 S115 A116 V117 E118 R119 K120 V121 Y122 P123 Q128 R129 L130 T131 S132 Y133 R134 G135 K136 L137 L138 L139 K140 L141 K142
W143 S144 V145 N146 E149 E150 N151 L152 V155 R156 D157 C158 L161 P162 Y163 M164 L165 Q166 S167 L172 N173 K174 M175 S176 P177 Y178 Q182 H183 K184 E185 E186 S187 D188 E189 I190 F194 K201 L202 I203 R204 R211 N212 I218 S221 N224 R225 G226 A227 S228
Y229 Y232 Q235 I236 R237 S238 V239 R240 P241 D242 Q243 T244 S245 Q246 T247 N248 V249 L250 H251 Y252 L253 Q257 V258 T259 F260 R261 F262 S263 W264 N267 E268 Y269 L270 V274 L277 K278 A279 L280 C281 H282 T283 S284 D285 R286 E287 T288 F289 D290 G291 I292 I293 G294 N295 D296
V297 K298 D299 S300 F301 R305 L306 E307 L308 L309 L310 R311 G312 F313 K314 K315 R316 Y317 L320 Q321 N322 R323 T324 Q325 V326 L327 Q328 Y329 L330 F334 R335 F338 Q339 A340 S341 P342 D343 D346 V349 E352 V353 L354 D355 R356 L359 V360 H361 L362 Q368 D369 K370
F371 R372 M373 L374 L375 F376 M377 K380 L384 V385 S390 Q398 E401 L404 G405 G406 Y409 G410 M411 I412 L413 K414 E415 K416 L421 Q422 N423 I424 I425 A426 Q427 V428 R429 I432 G435 M436 A437 I438 N439 F440 K441 D442 K443 R444 Y445 M446 S447 R448 V449 L450
M451 R452 V453 N454 E455 N456 S459 K460 M461 Q462 Y463 F464 L465 G468 N469 L470 V471 S472 L478 Q479 Q480 V481 S482 G483 Y484 V487 K490 I491 N492 F493 Y494 R495 F496 H499 F500 R501 M502 R505 G506 S507 F508 F509 A510 Q511 L512 K513 T514 R518 K519 L520 L521 P522
E523 C529 P530 V531 H532 G536 S537 P538 C539 G540 L541 L542 H547 K548 Q554 Q555 V558 I561 P562 S563 I564 L565 Y566 S567 L568 G569 V570 A571 P572 A573 S574 H575 T576 F577 A578 P581 C585 I588 D589 G590 K591 I592 I593 G594 W595 Q600 I604 A605 D606
R609 K612 V613 E614 G615 K616 L620 P621 I622 D623 I626 G627 Y628 V629 P630 P631 S632 T633 R634 G635 Q636 Y637 L640 Y641 L642 H646 S647 R648 M649 L650 Y655 L656 P657 L658 D659 K660 V664 E668 Q669 M672 A675 V676 T677 P678 Q679 E680 I681 Q682 N683
N684 H688 V689 I696 L697 S698 I699 L700 A701 N702 P705 F709 N710 Q711 S712 N715 M716 Y717 Q718 C719 Q720 K723 Q724 T725 M726 V731 A732 L733 C734 H735 R736 S737 D738 N739 K740 L741 Y742 R743 L744 Q745 T746 T749 P750 I751 V752 A675 V676 T677 P678 Q679 E680 I681 Q682 N683 D763 G768 F769 N770 A771
V772 V773 S777 Y778 T779 G780 Y781 D782 M783 D784 D785 A786 M787 N790 K791 S792 A793 D794 E795 R796 G797 F798 M803 Y804 K805 T806 D810 L811 A812 L813 N814 R815 N816 R817 G818 D819 P820 I821 T822 Q823 H824 F825 G826 F827 G828 N829 D830 E831 W832 P833 K834 E835 W836 L840 D841
E842 D843 P846 Y847 I848 Y851 V852 E853 E854 P857 I858 C859 A860 Y861 F862 D863 D864 N867 K868 T869 K870 I871 K872 T873 Y874 H875 S876 P879 A880 Y881 I882 E883 E884 L887 I888 G889 D890 E891 S892 N893 K894 F895 Q896 E897 L898 Q899 T900 I903 K904 Y905 R906 I907 R908
R909 T910 P911 Q912 I913 G914 D915 K916 R920 H921 G922 Q923 K924 G925 V926 C927 S928 R929 K930 W931 P932 T933 I934 D935 M936 P937 F938 S939 E940 T941 G942 I943 Q944 P945 D946 I947 I948 I949 N950 P951 H952 A953 F954 P955 S956 R957 M958 T959 F963 V964 E965 K970 L974 I977 A978
Q979 D980 S981 I985 F986 N987 E988 P992 F996 Q999 L1000 A1001 K1002 A1003 G1004 Y1005 G1009 N1010 E1011 P1012 M1013 Y1014 S1015 G1016 E1021 D1025 I1026 Y1027 V1028 V1031 Y1032 Y1033 Q1034 R1035 L1036 R1037 H1038 M1039 V1040 N1041 D1042 K1043 F1044 Q1045 V1046 R1047 S1048 T1049 G1050 P1051 V1052 N1053



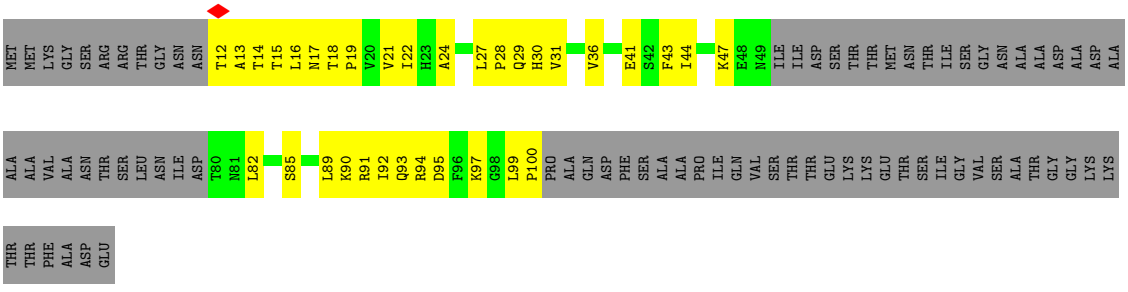
• Molecule 3: DNA-directed RNA polymerases I and III subunit RPAC1

Chain C:



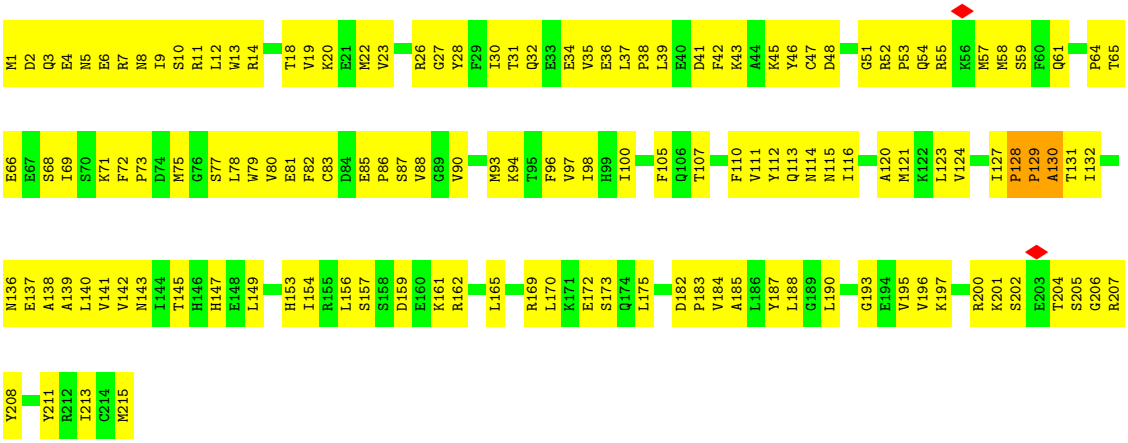
• Molecule 4: DNA-directed RNA polymerase I subunit RPA14

Chain D:



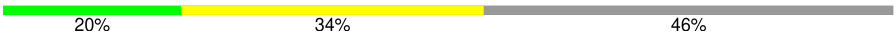
• Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1

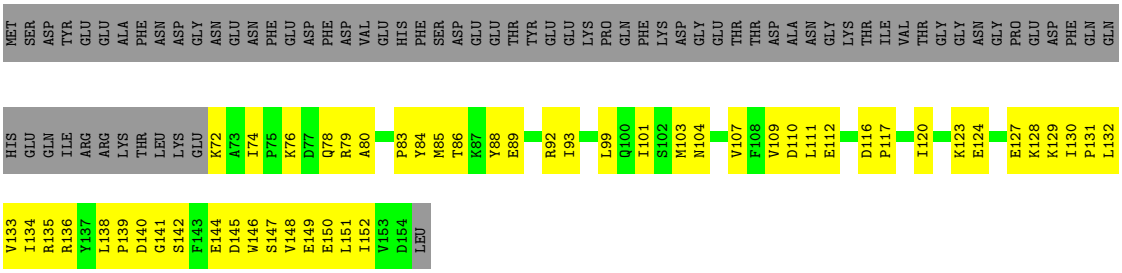
Chain E:



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

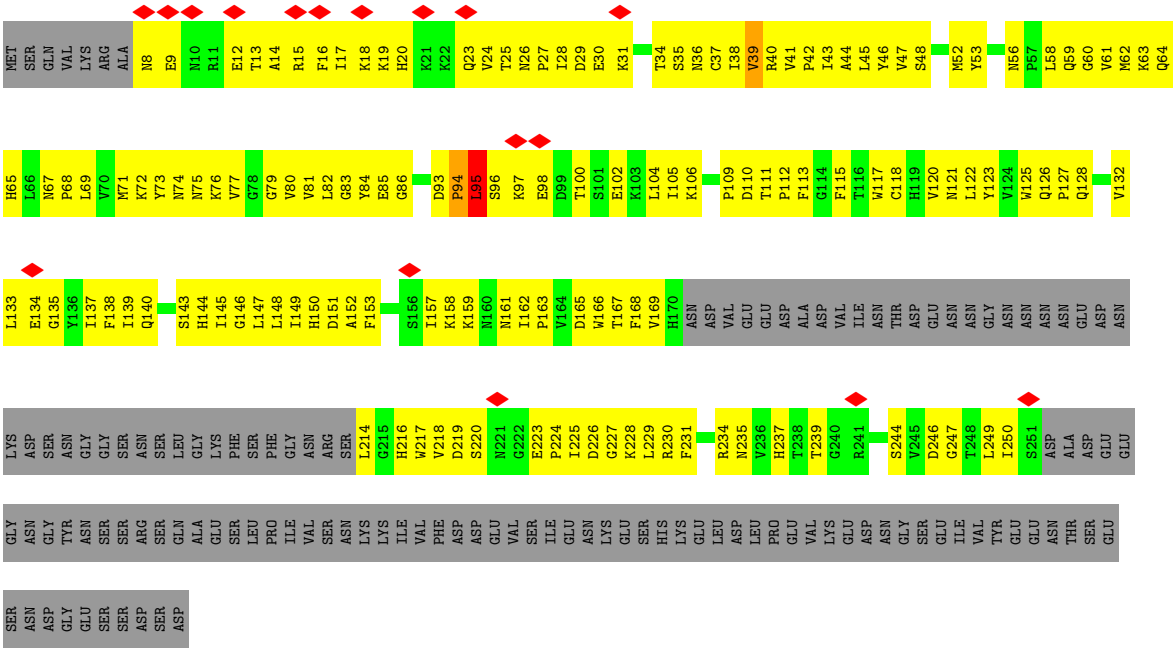
Chain F:





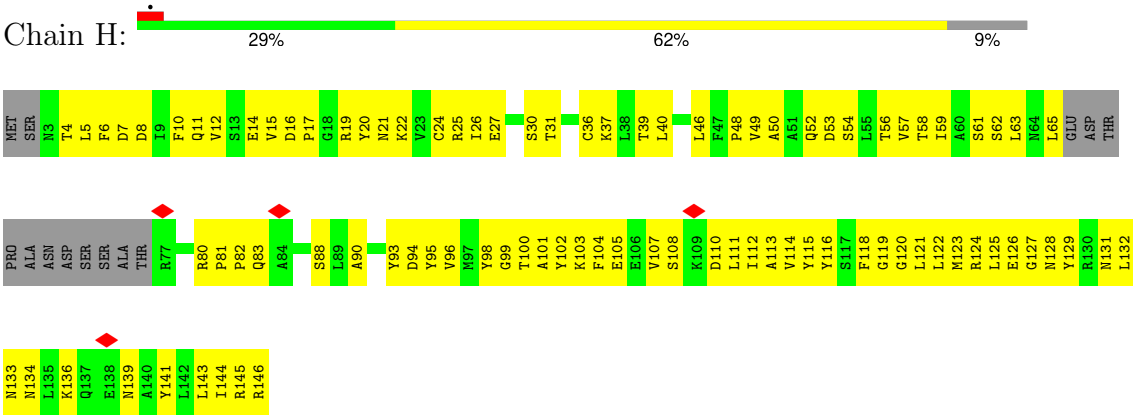
• Molecule 7: DNA-directed RNA polymerase I subunit RPA43

Chain G:



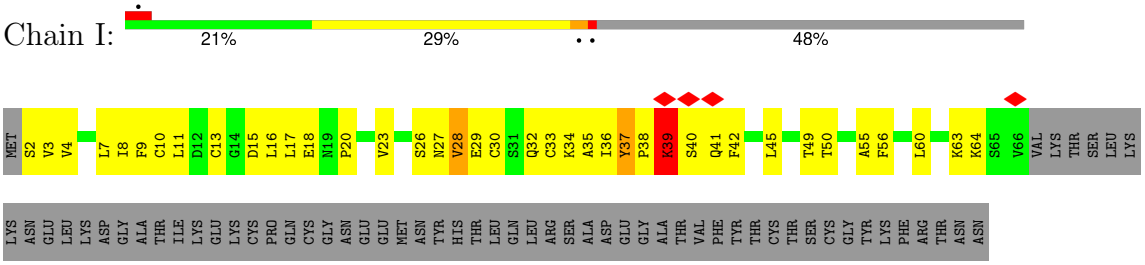
• Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

Chain H:



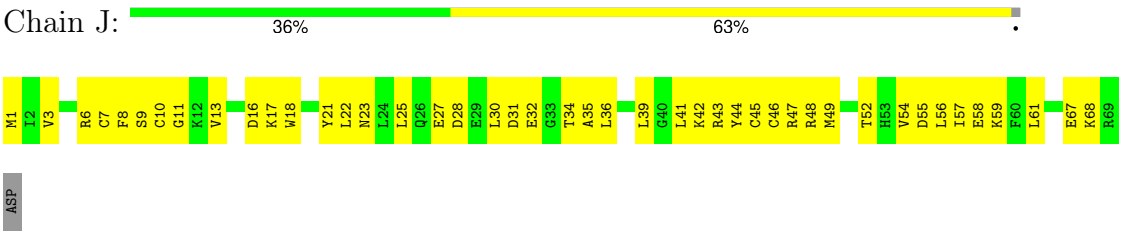
• Molecule 9: DNA-directed RNA polymerase I subunit RPA12

Chain I:



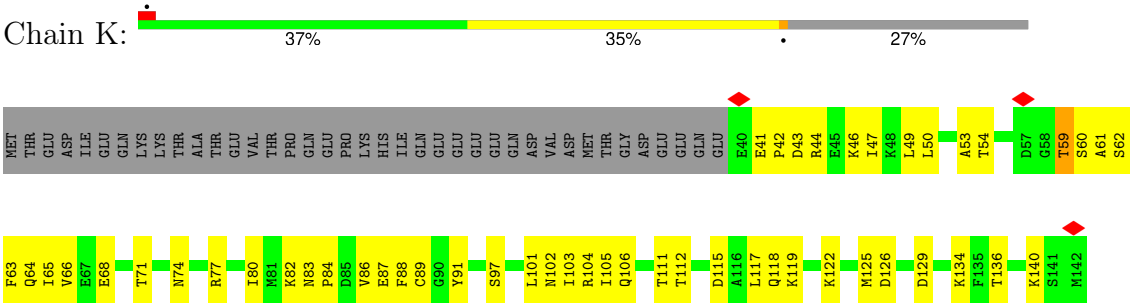
• Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5

Chain J:



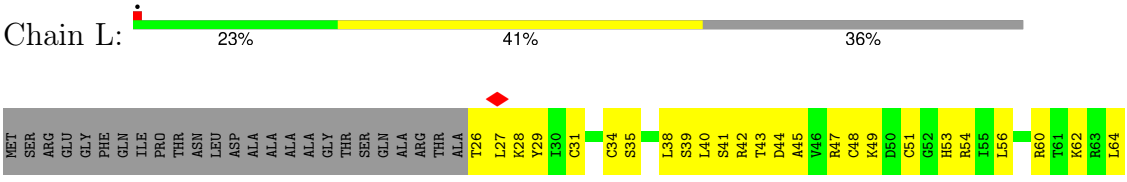
• Molecule 11: DNA-directed RNA polymerases I and III subunit RPAC2

Chain K:



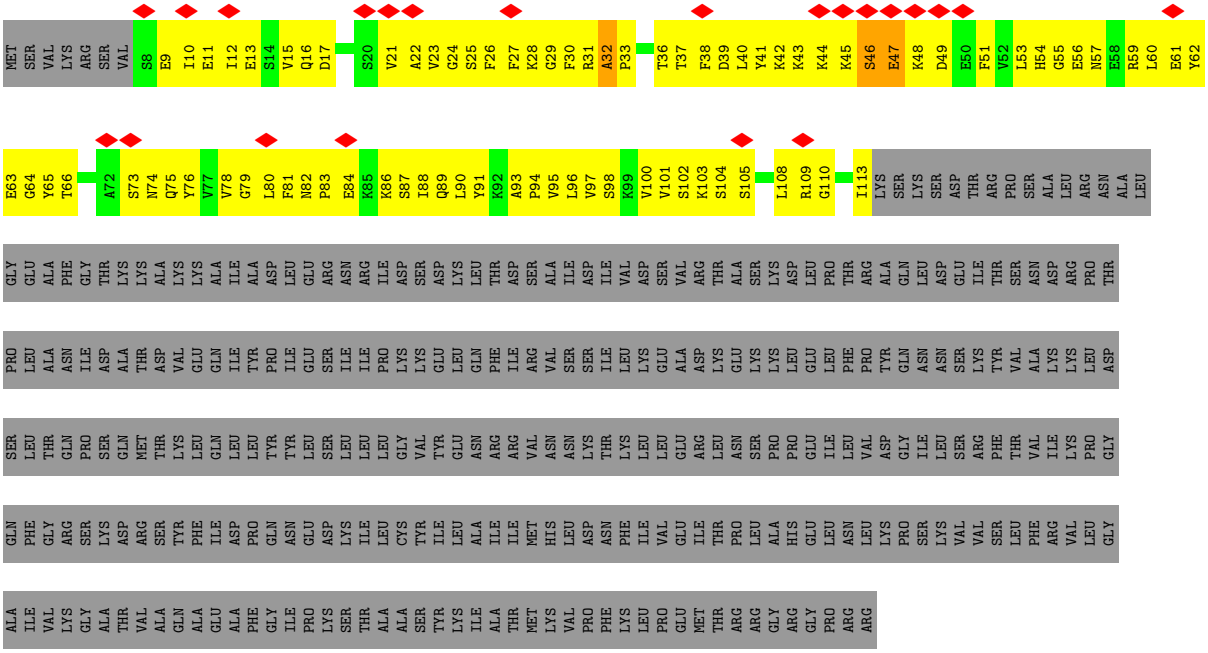
• Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4

Chain L:



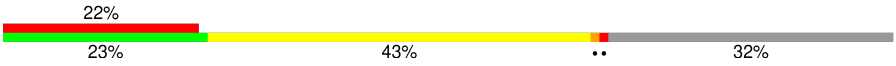
• Molecule 13: DNA-directed RNA polymerase I subunit RPA49

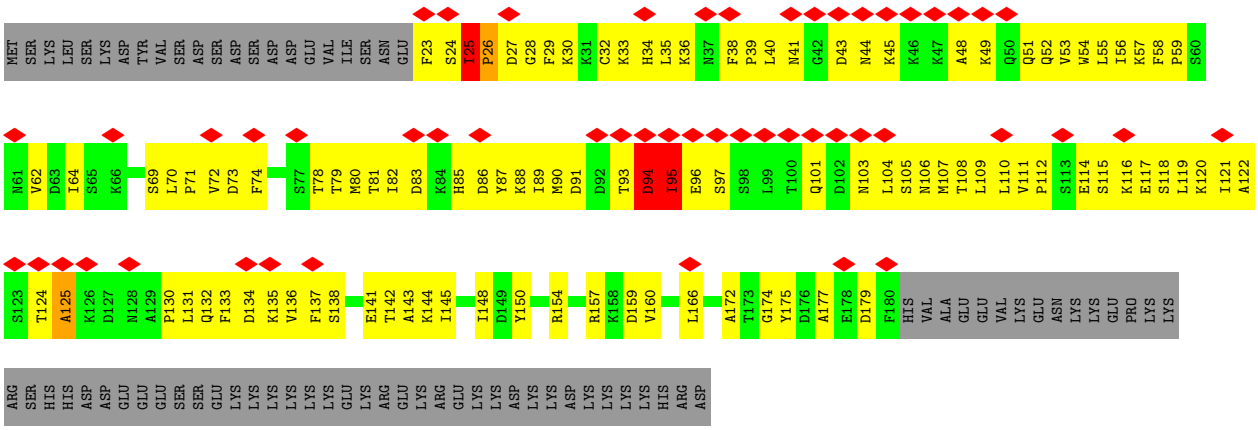
Chain M:



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

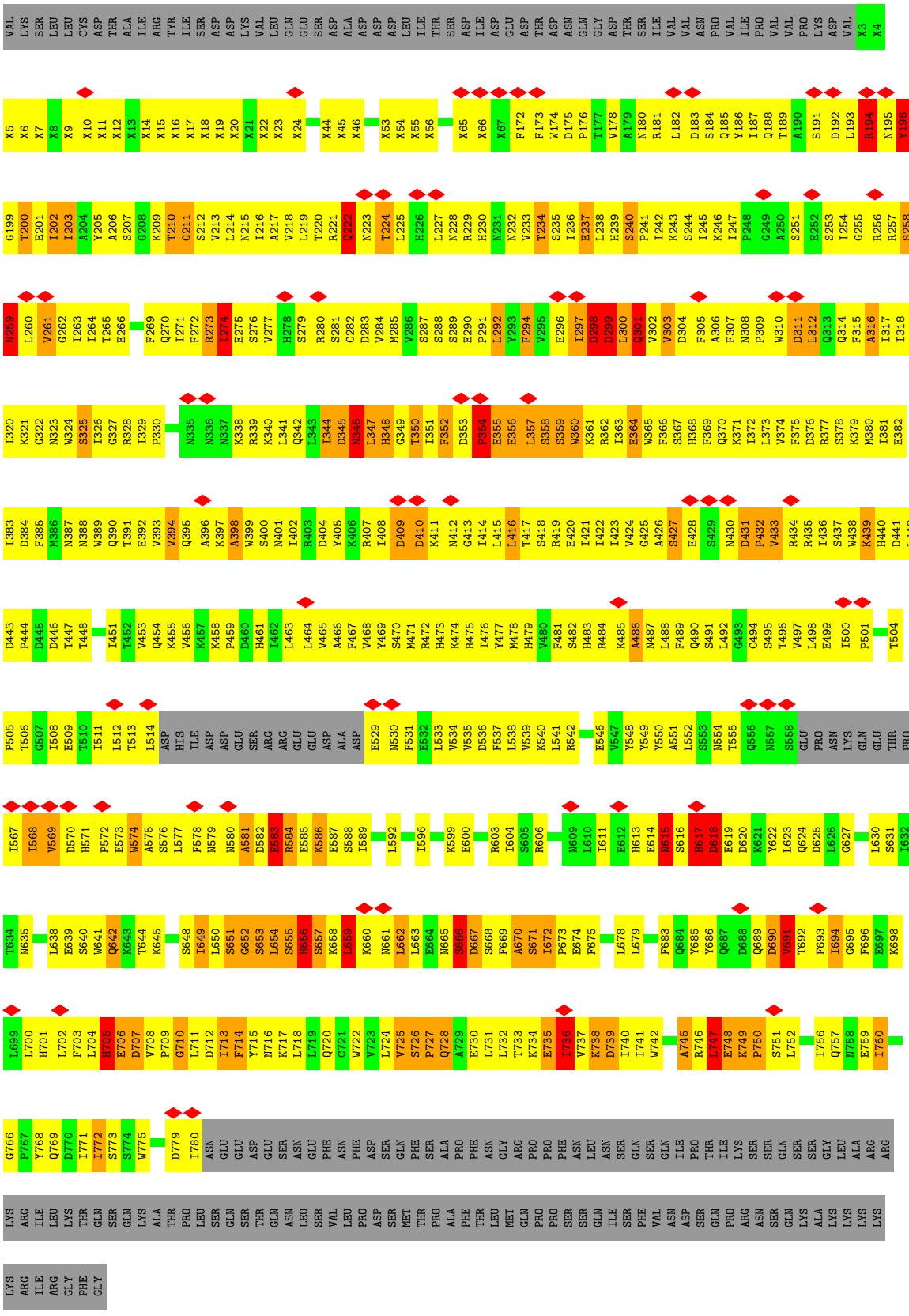
Chain N:





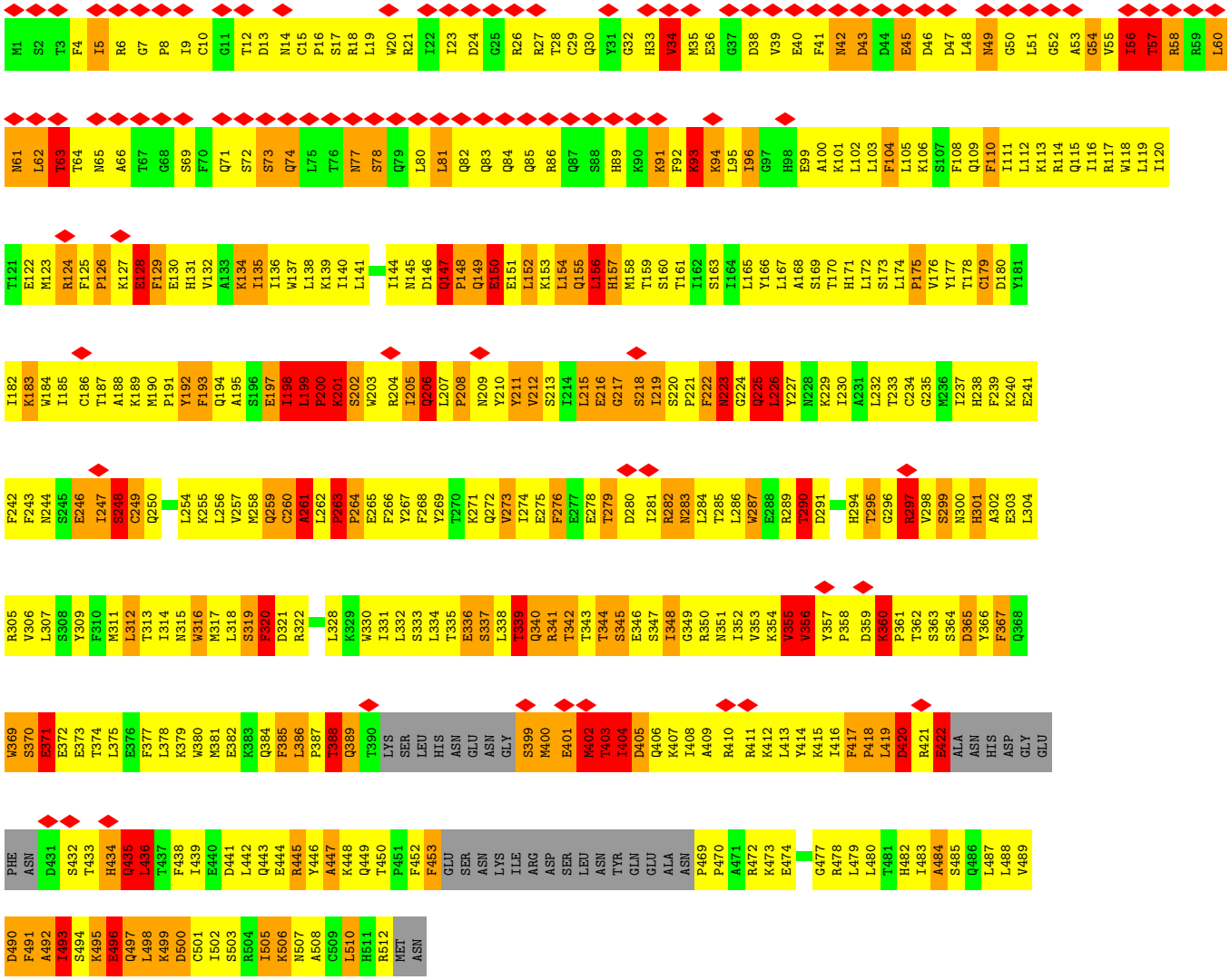
• Molecule 15: RNA polymerase I-specific transcription initiation factor RRN6

Chain O:



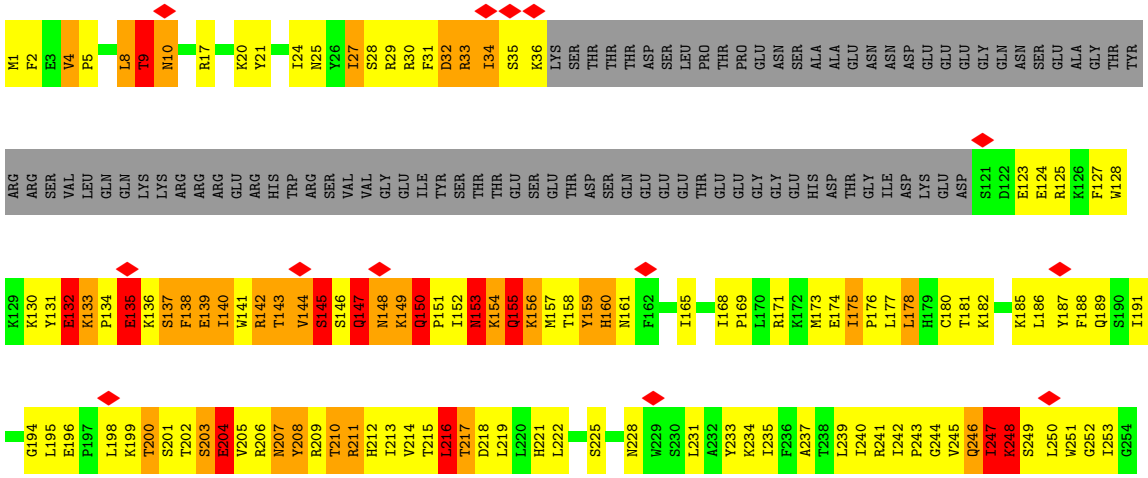
• Molecule 16: RNA polymerase I-specific transcription initiation factor RRN7

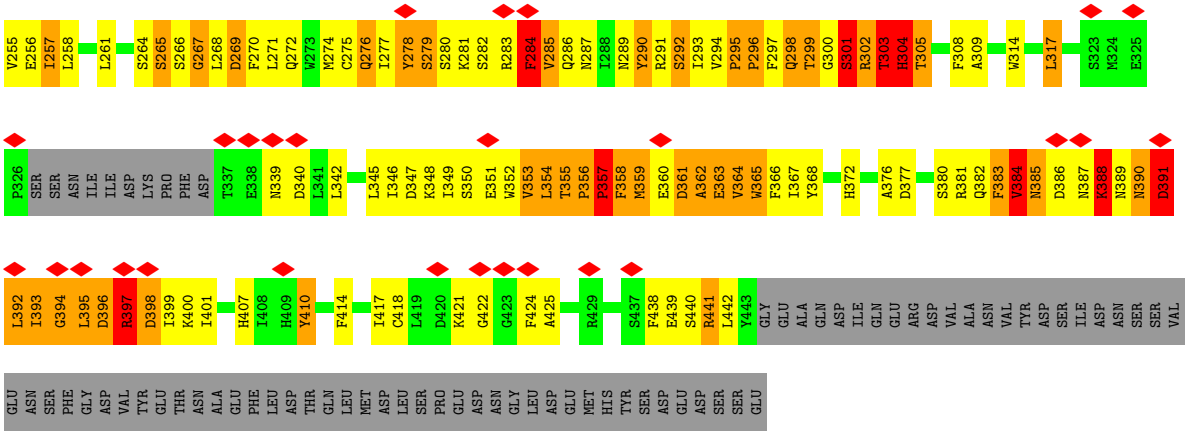
Chain P:



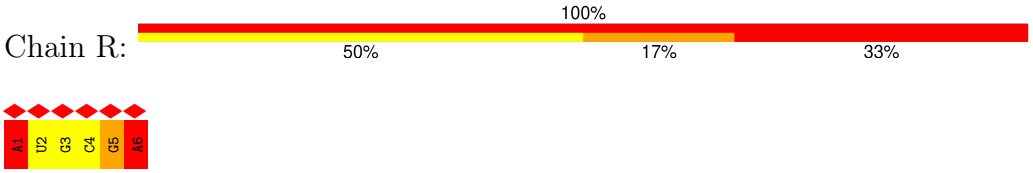
• Molecule 17: RNA polymerase I-specific transcription initiation factor RRN11

Chain Q:

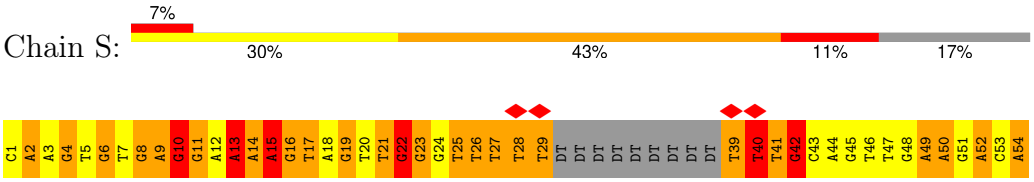




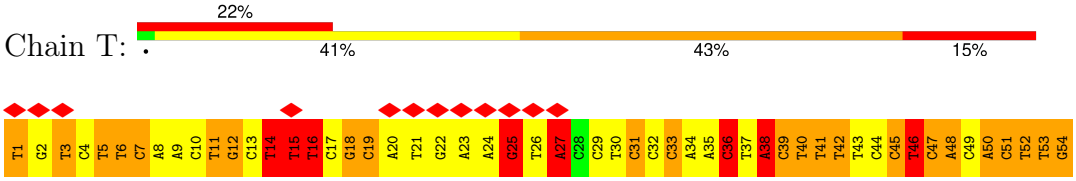
• Molecule 18: RNA



• Molecule 19: non-template strand DNA



• 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	38340	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	0.262	Depositor
Minimum map value	-0.136	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.014	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	0.43	0/11752	0.59	1/15870 (0.0%)
2	B	0.52	1/9556 (0.0%)	0.66	4/12916 (0.0%)
3	C	0.43	0/2483	0.60	0/3366
4	D	0.32	0/473	0.51	0/641
5	E	0.37	0/1795	0.53	0/2416
6	F	0.42	0/682	0.60	0/922
7	G	0.34	0/1630	0.57	0/2216
8	H	0.41	0/1088	0.57	0/1474
9	I	0.37	0/485	0.72	2/657 (0.3%)
10	J	0.50	0/578	0.69	0/775
11	K	0.41	0/821	0.56	0/1108
12	L	0.38	0/360	0.58	0/478
13	M	0.33	0/857	0.60	1/1151 (0.1%)
14	N	0.33	0/1279	0.62	0/1724
15	O	0.57	2/4902 (0.0%)	1.07	42/6641 (0.6%)
16	P	0.45	3/4068 (0.1%)	1.17	54/5491 (1.0%)
17	Q	0.63	1/2990 (0.0%)	1.15	22/4030 (0.5%)
18	R	1.60	0/142	2.59	18/220 (8.2%)
19	S	1.78	1/1050 (0.1%)	2.62	101/1621 (6.2%)
20	T	1.69	2/1206 (0.2%)	2.42	101/1855 (5.4%)
All	All	0.60	10/48197 (0.0%)	0.96	346/65572 (0.5%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
18	R	0	2
19	S	0	21

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
20	T	0	27
All	All	0	51

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	78	PRO	N-CD	9.56	1.61	1.47
16	P	263	PRO	N-CD	6.45	1.56	1.47
20	T	1	DT	C4'-O4'	-6.03	1.39	1.45
16	P	199	LEU	CA-C	5.77	1.68	1.52
16	P	191	PRO	N-CD	5.61	1.55	1.47
15	O	354	PRO	N-CD	-5.54	1.40	1.47
17	Q	296	PRO	N-CD	-5.38	1.40	1.47
15	O	572	PRO	N-CD	-5.14	1.40	1.47
20	T	1	DT	C5-C7	5.12	1.53	1.50
19	S	26	DT	C5-C7	5.00	1.53	1.50

All (346) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	Q	145	SER	N-CA-CB	16.78	135.67	110.50
15	O	346	ASN	N-CA-CB	-15.27	83.11	110.60
2	B	77	LYS	C-N-CD	14.74	159.35	128.40
16	P	49	ASN	N-CA-C	-12.63	76.90	111.00
19	S	2	DA	N1-C6-N6	-11.27	111.84	118.60
15	O	354	PRO	N-CA-CB	-11.15	89.92	103.30
16	P	157	HIS	N-CA-CB	11.01	130.42	110.60
20	T	26	DT	N3-C2-O2	-10.06	116.27	122.30
18	R	1	A	N1-C6-N6	-9.79	112.72	118.60
15	O	581	ALA	N-CA-CB	9.69	123.67	110.10
20	T	25	DG	N1-C6-O6	-9.68	114.09	119.90
20	T	1	DT	N3-C2-O2	-9.67	116.50	122.30
16	P	56	ILE	CB-CA-C	9.55	130.70	111.60
20	T	27	DA	N1-C6-N6	-9.51	112.89	118.60
19	S	44	DA	N1-C6-N6	-9.48	112.91	118.60
20	T	15	DT	N3-C2-O2	-9.31	116.72	122.30
19	S	52	DA	N1-C6-N6	-9.29	113.03	118.60
15	O	617	HIS	N-CA-C	-9.29	85.93	111.00
19	S	3	DA	N1-C6-N6	-9.28	113.03	118.60
17	Q	358	PHE	CB-CA-C	-9.21	91.99	110.40
15	O	352	PHE	N-CA-C	9.13	135.66	111.00
16	P	248	SER	N-CA-C	-9.08	86.50	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	S	1	DC	N3-C2-O2	-8.93	115.65	121.90
20	T	26	DT	O4'-C1'-N1	8.91	114.24	108.00
16	P	290	THR	N-CA-CB	8.87	127.14	110.30
15	O	348	HIS	N-CA-CB	8.82	126.48	110.60
19	S	18	DA	N1-C6-N6	-8.73	113.36	118.60
15	O	346	ASN	CB-CA-C	8.49	127.38	110.40
18	R	4	C	O4'-C1'-N1	8.47	114.97	108.20
15	O	358	SER	N-CA-C	8.45	133.80	111.00
19	S	50	DA	N1-C6-N6	-8.44	113.54	118.60
19	S	2	DA	C5-C6-N1	8.43	121.92	117.70
20	T	38	DA	N1-C6-N6	-8.39	113.57	118.60
20	T	30	DT	C6-C5-C7	-8.36	117.88	122.90
19	S	9	DA	N1-C6-N6	-8.35	113.59	118.60
19	S	14	DA	N1-C6-N6	-8.33	113.60	118.60
19	S	28	DT	N3-C2-O2	-8.31	117.31	122.30
20	T	9	DA	N1-C6-N6	-8.26	113.64	118.60
20	T	53	DT	N3-C2-O2	-8.25	117.35	122.30
19	S	13	DA	N1-C6-N6	-8.23	113.66	118.60
19	S	49	DA	N1-C6-N6	-8.21	113.67	118.60
20	T	34	DA	N1-C6-N6	-8.12	113.72	118.60
16	P	32	GLY	N-CA-C	8.07	133.28	113.10
15	O	653	SER	N-CA-C	8.06	132.76	111.00
20	T	34	DA	C5-C6-N1	8.05	121.72	117.70
20	T	29	DC	O4'-C1'-N1	8.02	113.61	108.00
19	S	52	DA	C5-C6-N1	8.00	121.70	117.70
20	T	35	DA	N1-C6-N6	-7.94	113.84	118.60
19	S	18	DA	C5-C6-N1	7.93	121.67	117.70
19	S	15	DA	C5-C6-N1	7.92	121.66	117.70
20	T	8	DA	C5-C6-N1	7.92	121.66	117.70
20	T	9	DA	C5-C6-N1	7.91	121.65	117.70
19	S	40	DT	O4'-C1'-N1	7.88	113.51	108.00
19	S	9	DA	C5-C6-N1	7.87	121.64	117.70
19	S	49	DA	C5-C6-N1	7.87	121.63	117.70
20	T	48	DA	C5-C6-N1	7.87	121.63	117.70
20	T	27	DA	C5-C6-N1	7.85	121.63	117.70
20	T	8	DA	N1-C6-N6	-7.84	113.89	118.60
20	T	17	DC	N3-C2-O2	-7.84	116.41	121.90
19	S	50	DA	C5-C6-N1	7.81	121.61	117.70
18	R	1	A	C5-C6-N1	7.79	121.59	117.70
18	R	3	G	N1-C6-O6	-7.78	115.23	119.90
19	S	54	DA	N1-C6-N6	-7.76	113.94	118.60
20	T	38	DA	C5-C6-N1	7.75	121.58	117.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	S	51	DG	O4'-C1'-N9	7.74	113.42	108.00
20	T	48	DA	N1-C6-N6	-7.72	113.97	118.60
19	S	13	DA	C5-C6-N1	7.70	121.55	117.70
19	S	54	DA	C5-C6-N1	7.69	121.55	117.70
19	S	7	DT	C6-C5-C7	-7.63	118.32	122.90
20	T	50	DA	N1-C6-N6	-7.62	114.03	118.60
2	B	77	LYS	C-N-CA	-7.62	89.99	122.00
20	T	51	DC	N3-C2-O2	-7.62	116.57	121.90
20	T	37	DT	C6-C5-C7	-7.59	118.35	122.90
15	O	356	GLU	N-CA-C	7.53	131.33	111.00
19	S	19	DG	N1-C6-O6	-7.53	115.38	119.90
19	S	12	DA	N1-C6-N6	-7.52	114.09	118.60
19	S	14	DA	C5-C6-N1	7.51	121.46	117.70
16	P	321	ASP	N-CA-C	-7.50	90.74	111.00
19	S	3	DA	C5-C6-N1	7.49	121.45	117.70
19	S	42	DG	O4'-C1'-N9	7.49	113.24	108.00
19	S	28	DT	O4'-C1'-N1	7.47	113.23	108.00
20	T	49	DC	N3-C2-O2	-7.46	116.68	121.90
17	Q	304	HIS	N-CA-C	7.46	131.14	111.00
16	P	226	LEU	C-N-CA	-7.44	103.10	121.70
18	R	1	A	C4-C5-C6	-7.44	113.28	117.00
19	S	15	DA	N1-C6-N6	-7.43	114.14	118.60
15	O	358	SER	N-CA-CB	-7.41	99.38	110.50
15	O	705	HIS	N-CA-C	-7.40	91.01	111.00
17	Q	292	SER	CB-CA-C	-7.34	96.15	110.10
19	S	29	DT	C6-C5-C7	-7.34	118.50	122.90
19	S	46	DT	C6-C5-C7	-7.34	118.50	122.90
20	T	35	DA	C5-C6-N1	7.34	121.37	117.70
19	S	24	DG	O4'-C1'-N9	7.31	113.12	108.00
19	S	12	DA	C5-C6-N1	7.30	121.35	117.70
19	S	39	DT	C6-C5-C7	-7.28	118.53	122.90
19	S	44	DA	C4-C5-C6	-7.25	113.37	117.00
20	T	16	DT	N3-C2-O2	-7.24	117.96	122.30
16	P	128	GLU	N-CA-C	7.23	130.53	111.00
19	S	21	DT	C6-C5-C7	-7.22	118.57	122.90
19	S	11	DG	N1-C6-O6	-7.22	115.57	119.90
17	Q	353	VAL	N-CA-C	7.19	130.42	111.00
19	S	24	DG	N1-C6-O6	-7.15	115.61	119.90
20	T	53	DT	C6-C5-C7	-7.14	118.61	122.90
20	T	52	DT	N3-C2-O2	-7.12	118.03	122.30
20	T	54	DG	N1-C6-O6	-7.11	115.64	119.90
16	P	356	VAL	N-CA-C	-7.10	91.83	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	T	9	DA	C4-C5-C6	-7.08	113.46	117.00
19	S	49	DA	C4-C5-C6	-7.05	113.48	117.00
19	S	1	DC	N1-C2-O2	7.05	123.13	118.90
19	S	10	DG	N1-C6-O6	-7.04	115.67	119.90
20	T	50	DA	C4-C5-C6	-7.00	113.50	117.00
20	T	50	DA	C5-C6-N1	6.99	121.20	117.70
19	S	51	DG	N1-C6-O6	-6.96	115.72	119.90
15	O	657	SER	N-CA-C	6.96	129.78	111.00
19	S	52	DA	C4-C5-C6	-6.95	113.52	117.00
20	T	38	DA	C4-C5-C6	-6.95	113.53	117.00
19	S	54	DA	C4-C5-C6	-6.93	113.53	117.00
20	T	27	DA	C4-C5-C6	-6.93	113.53	117.00
20	T	39	DC	N3-C2-O2	-6.93	117.05	121.90
15	O	301	GLN	N-CA-C	-6.92	92.31	111.00
16	P	202	SER	N-CA-CB	-6.87	100.19	110.50
19	S	40	DT	N3-C2-O2	-6.86	118.18	122.30
20	T	42	DT	O4'-C4'-C3'	6.85	110.11	106.00
18	R	3	G	O4'-C1'-N9	6.84	113.67	108.20
16	P	422	GLU	CB-CA-C	6.78	123.96	110.40
20	T	19	DC	N3-C2-O2	-6.76	117.17	121.90
20	T	8	DA	C4-C5-C6	-6.74	113.63	117.00
19	S	9	DA	C4-C5-C6	-6.74	113.63	117.00
15	O	298	ASP	N-CA-CB	-6.73	98.49	110.60
20	T	14	DT	N3-C2-O2	-6.72	118.27	122.30
19	S	18	DA	O4'-C4'-C3'	6.72	110.03	106.00
18	R	5	G	N1-C6-O6	-6.71	115.88	119.90
19	S	18	DA	C4-C5-C6	-6.70	113.65	117.00
20	T	32	DC	N3-C2-O2	-6.69	117.22	121.90
20	T	25	DG	N3-C2-N2	-6.64	115.25	119.90
20	T	31	DC	N3-C2-O2	-6.64	117.25	121.90
19	S	14	DA	C4-C5-C6	-6.63	113.69	117.00
20	T	34	DA	C4-C5-C6	-6.62	113.69	117.00
19	S	40	DT	P-O3'-C3'	6.62	127.64	119.70
19	S	44	DA	C5-C6-N1	6.61	121.00	117.70
16	P	500	ASP	N-CA-CB	6.60	122.48	110.60
19	S	2	DA	C4-C5-C6	-6.60	113.70	117.00
15	O	656	HIS	N-CA-C	6.59	128.81	111.00
19	S	13	DA	C4-C5-C6	-6.57	113.71	117.00
18	R	5	G	C3'-C2'-C1'	6.57	106.75	101.50
19	S	41	DT	O4'-C1'-N1	6.56	112.59	108.00
19	S	20	DT	C6-C5-C7	-6.55	118.97	122.90
15	O	349	GLY	N-CA-C	-6.54	96.75	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	T	10	DC	N3-C2-O2	-6.53	117.33	121.90
9	I	39	LYS	N-CA-CB	6.53	122.35	110.60
20	T	33	DC	N3-C2-O2	-6.51	117.34	121.90
20	T	7	DC	N3-C2-O2	-6.51	117.35	121.90
15	O	486	ALA	N-CA-C	-6.50	93.45	111.00
16	P	222	PHE	N-CA-C	6.45	128.42	111.00
16	P	134	LYS	N-CA-C	6.44	128.40	111.00
16	P	193	PHE	N-CA-C	6.41	128.31	111.00
19	S	42	DG	P-O3'-C3'	6.40	127.38	119.70
19	S	15	DA	C4-C5-C6	-6.40	113.80	117.00
19	S	7	DT	N3-C2-O2	-6.38	118.47	122.30
20	T	48	DA	C4-C5-C6	-6.36	113.82	117.00
20	T	54	DG	O4'-C1'-N9	6.34	112.44	108.00
15	O	694	ILE	N-CA-C	6.34	128.12	111.00
15	O	210	THR	N-CA-C	-6.34	93.88	111.00
16	P	484	ALA	N-CA-CB	6.33	118.97	110.10
19	S	25	DT	C6-C5-C7	-6.33	119.10	122.90
19	S	42	DG	N1-C6-O6	-6.32	116.11	119.90
19	S	4	DG	N1-C6-O6	-6.31	116.11	119.90
19	S	23	DG	N1-C6-O6	-6.30	116.12	119.90
19	S	47	DT	O4'-C4'-C3'	6.29	109.78	106.00
19	S	3	DA	C4-C5-C6	-6.29	113.86	117.00
19	S	17	DT	C6-C5-C7	-6.29	119.13	122.90
18	R	2	U	O4'-C1'-N1	6.28	113.23	108.20
20	T	46	DT	C6-C5-C7	-6.25	119.15	122.90
19	S	40	DT	C6-C5-C7	-6.25	119.15	122.90
19	S	47	DT	C6-C5-C7	-6.24	119.15	122.90
15	O	427	SER	N-CA-C	-6.24	94.16	111.00
20	T	43	DT	C6-C5-C7	-6.23	119.16	122.90
17	Q	207	ASN	N-CA-CB	6.22	121.81	110.60
19	S	5	DT	C6-C5-C7	-6.18	119.19	122.90
19	S	8	DG	N1-C6-O6	-6.16	116.20	119.90
19	S	19	DG	O4'-C4'-C3'	6.16	109.69	106.00
20	T	40	DT	C6-C5-C7	-6.16	119.21	122.90
15	O	745	ALA	N-CA-CB	6.15	118.71	110.10
20	T	4	DC	N3-C2-O2	-6.12	117.61	121.90
15	O	354	PRO	N-CD-CG	-6.12	94.02	103.20
19	S	50	DA	C4-C5-C6	-6.11	113.94	117.00
20	T	42	DT	N3-C2-O2	-6.11	118.64	122.30
16	P	150	GLU	CB-CA-C	-6.09	98.23	110.40
17	Q	353	VAL	CB-CA-C	-6.08	99.85	111.40
19	S	39	DT	N3-C2-O2	-6.08	118.65	122.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	T	25	DG	C5-C6-O6	6.07	132.24	128.60
20	T	15	DT	O4'-C1'-N1	6.05	112.24	108.00
19	S	16	DG	N1-C6-O6	-6.04	116.28	119.90
18	R	2	U	C3'-C2'-C1'	6.04	106.33	101.50
19	S	3	DA	O4'-C4'-C3'	6.02	109.61	106.00
20	T	14	DT	C6-C5-C7	-6.02	119.29	122.90
18	R	3	G	C3'-C2'-C1'	6.02	106.31	101.50
15	O	196	TYR	N-CA-C	6.01	127.24	111.00
16	P	201	LYS	N-CA-CB	6.01	121.42	110.60
19	S	14	DA	O4'-C4'-C3'	6.00	109.60	106.00
20	T	47	DC	N3-C2-O2	-6.00	117.70	121.90
19	S	12	DA	C4-C5-C6	-5.99	114.00	117.00
16	P	404	ILE	N-CA-C	-5.97	94.87	111.00
16	P	301	HIS	N-CA-C	-5.97	94.88	111.00
20	T	35	DA	C4-C5-C6	-5.95	114.03	117.00
20	T	11	DT	C6-C5-C7	-5.95	119.33	122.90
17	Q	441	ARG	NE-CZ-NH1	5.94	123.27	120.30
19	S	27	DT	N3-C2-O2	-5.94	118.74	122.30
20	T	6	DT	C6-C5-C7	-5.94	119.34	122.90
16	P	110	PHE	N-CA-C	5.93	127.02	111.00
16	P	506	LYS	N-CA-CB	5.93	121.28	110.60
15	O	606	ARG	NE-CZ-NH1	5.93	123.27	120.30
17	Q	305	THR	N-CA-CB	5.92	121.55	110.30
16	P	135	ILE	CB-CA-C	-5.92	99.76	111.60
19	S	1	DC	N3-C4-C5	5.91	124.27	121.90
20	T	15	DT	C6-C5-C7	-5.91	119.35	122.90
20	T	3	DT	N3-C2-O2	-5.91	118.75	122.30
20	T	44	DC	N3-C2-O2	-5.89	117.77	121.90
20	T	52	DT	C6-C5-C7	-5.89	119.37	122.90
19	S	17	DT	N3-C2-O2	-5.89	118.77	122.30
16	P	124	ARG	N-CA-CB	-5.88	100.01	110.60
13	M	113	ILE	CG1-CB-CG2	5.86	124.29	111.40
16	P	199	LEU	C-N-CD	-5.84	107.74	120.60
19	S	5	DT	N3-C2-O2	-5.84	118.79	122.30
19	S	28	DT	C6-C5-C7	-5.83	119.40	122.90
19	S	22	DG	N1-C6-O6	-5.83	116.40	119.90
20	T	40	DT	N3-C2-O2	-5.82	118.81	122.30
18	R	6	A	C4-C5-C6	-5.82	114.09	117.00
20	T	32	DC	N1-C2-O2	5.81	122.39	118.90
20	T	41	DT	N3-C2-O2	-5.81	118.82	122.30
15	O	294	PHE	N-CA-CB	-5.80	100.17	110.60
17	Q	153	ASN	N-CA-CB	5.80	121.03	110.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	T	39	DC	N1-C2-O2	5.80	122.38	118.90
16	P	261	ALA	CB-CA-C	-5.79	101.41	110.10
16	P	200	PRO	C-N-CA	-5.79	107.22	121.70
16	P	493	ILE	N-CA-C	5.79	126.62	111.00
15	O	652	GLY	N-CA-C	5.77	127.53	113.10
20	T	17	DC	N1-C2-O2	5.76	122.36	118.90
18	R	5	G	O4'-C4'-C3'	5.75	110.70	106.10
17	Q	147	GLN	N-CA-C	5.75	126.53	111.00
20	T	1	DT	C6-C5-C7	-5.75	119.45	122.90
16	P	499	LYS	CB-CA-C	-5.74	98.92	110.40
15	O	670	ALA	N-CA-C	-5.72	95.55	111.00
18	R	6	A	C5'-C4'-O4'	5.72	115.97	109.10
15	O	747	LEU	N-CA-C	5.69	126.37	111.00
20	T	5	DT	C6-C5-C7	-5.68	119.49	122.90
20	T	52	DT	O4'-C1'-N1	5.67	111.97	108.00
17	Q	362	ALA	N-CA-C	5.66	126.29	111.00
17	Q	359	MET	N-CA-CB	5.64	120.75	110.60
15	O	657	SER	N-CA-CB	-5.63	102.05	110.50
15	O	570	ASP	CB-CA-C	-5.62	99.15	110.40
19	S	28	DT	C5-C4-O4	5.62	128.83	124.90
20	T	41	DT	C6-C5-C7	-5.61	119.53	122.90
16	P	505	ILE	CB-CA-C	-5.61	100.39	111.60
20	T	36	DC	O4'-C4'-C3'	5.59	109.36	106.00
20	T	18	DG	N1-C6-O6	-5.59	116.55	119.90
18	R	6	A	N1-C6-N6	-5.55	115.27	118.60
20	T	54	DG	N3-C2-N2	-5.55	116.02	119.90
19	S	28	DT	N3-C4-O4	-5.54	116.58	119.90
20	T	45	DC	N3-C2-O2	-5.54	118.03	121.90
16	P	447	ALA	N-CA-CB	5.53	117.84	110.10
17	Q	357	PRO	N-CA-C	5.51	126.43	112.10
15	O	739	ASP	CB-CG-OD2	-5.50	113.35	118.30
17	Q	143	THR	C-N-CA	5.49	135.43	121.70
20	T	6	DT	N3-C2-O2	-5.49	119.01	122.30
1	A	267	LYS	C-N-CA	5.49	133.82	122.30
16	P	500	ASP	N-CA-C	-5.48	96.21	111.00
17	Q	257	ILE	N-CA-CB	5.47	123.38	110.80
20	T	13	DC	N3-C2-O2	-5.46	118.08	121.90
17	Q	30	ARG	NE-CZ-NH2	5.46	123.03	120.30
20	T	33	DC	N3-C4-C5	5.45	124.08	121.90
20	T	42	DT	C6-C5-C7	-5.45	119.63	122.90
15	O	346	ASN	N-CA-C	5.43	125.67	111.00
15	O	642	GLN	N-CA-C	-5.43	96.34	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	O	358	SER	CB-CA-C	-5.42	99.80	110.10
20	T	16	DT	C5-C6-N1	-5.41	120.46	123.70
20	T	51	DC	N1-C2-O2	5.40	122.14	118.90
15	O	640	SER	N-CA-C	5.40	125.58	111.00
19	S	27	DT	C6-C5-C7	-5.40	119.66	122.90
16	P	498	LEU	N-CA-CB	5.39	121.19	110.40
20	T	46	DT	O4'-C4'-C3'	5.38	109.23	106.00
16	P	246	GLU	N-CA-C	5.37	125.51	111.00
16	P	192	TYR	N-CA-C	5.36	125.46	111.00
20	T	5	DT	N3-C2-O2	-5.36	119.09	122.30
19	S	48	DG	N1-C6-O6	-5.35	116.69	119.90
17	Q	17	ARG	NE-CZ-NH2	5.35	122.97	120.30
15	O	583	GLU	N-CA-CB	-5.35	100.98	110.60
16	P	198	ILE	CB-CA-C	-5.34	100.92	111.60
15	O	736	ILE	CB-CA-C	-5.33	100.93	111.60
16	P	216	GLU	N-CA-C	5.33	125.39	111.00
15	O	359	SER	N-CA-CB	5.33	118.49	110.50
20	T	26	DT	C6-C5-C7	-5.33	119.70	122.90
19	S	45	DG	N1-C6-O6	-5.32	116.71	119.90
16	P	191	PRO	N-CA-C	-5.32	98.27	112.10
19	S	39	DT	N3-C4-O4	-5.30	116.72	119.90
20	T	12	DG	N1-C6-O6	-5.28	116.73	119.90
9	I	28	VAL	N-CA-CB	5.27	123.09	111.50
17	Q	150	GLN	N-CA-C	5.27	125.22	111.00
20	T	47	DC	O4'-C4'-C3'	5.27	109.16	106.00
20	T	30	DT	P-O3'-C3'	5.26	126.01	119.70
19	S	21	DT	O4'-C1'-N1	5.25	111.68	108.00
15	O	416	LEU	CA-CB-CG	-5.25	103.24	115.30
19	S	26	DT	C6-C5-C7	-5.24	119.75	122.90
16	P	500	ASP	CB-CG-OD2	5.24	123.01	118.30
16	P	222	PHE	N-CA-CB	-5.24	101.17	110.60
18	R	4	C	C3'-C2'-C1'	5.24	105.69	101.50
17	Q	301	SER	C-N-CA	5.23	134.78	121.70
17	Q	361	ASP	CB-CG-OD2	5.22	123.00	118.30
19	S	25	DT	N3-C2-O2	-5.21	119.17	122.30
20	T	3	DT	C5-C6-N1	-5.21	120.58	123.70
18	R	6	A	C5-C6-N1	5.21	120.30	117.70
16	P	63	THR	N-CA-CB	5.20	120.18	110.30
16	P	365	ASP	N-CA-C	-5.19	96.99	111.00
20	T	11	DT	N3-C2-O2	-5.18	119.19	122.30
17	Q	171	ARG	NE-CZ-NH1	5.17	122.89	120.30
16	P	198	ILE	C-N-CA	5.17	134.62	121.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	S	53	DC	N3-C4-C5	5.17	123.97	121.90
16	P	104	PHE	N-CA-C	-5.17	97.05	111.00
19	S	41	DT	C6-C5-C7	-5.17	119.80	122.90
19	S	27	DT	C5-C6-N1	-5.16	120.61	123.70
16	P	43	ASP	N-CA-C	-5.16	97.08	111.00
16	P	320	PHE	N-CA-CB	5.15	119.87	110.60
20	T	44	DC	O4'-C1'-N1	5.14	111.60	108.00
16	P	510	LEU	CB-CA-C	-5.12	100.48	110.20
15	O	297	ILE	CB-CA-C	-5.11	101.37	111.60
16	P	61	ASN	CB-CA-C	-5.11	100.18	110.40
20	T	7	DC	N1-C2-O2	5.11	121.97	118.90
20	T	15	DT	C5-C6-N1	-5.10	120.64	123.70
20	T	3	DT	C6-C5-C7	-5.09	119.84	122.90
20	T	43	DT	O4'-C4'-C3'	5.09	109.05	106.00
16	P	319	SER	CB-CA-C	-5.09	100.44	110.10
19	S	53	DC	N3-C2-O2	-5.07	118.35	121.90
20	T	19	DC	N1-C2-O2	5.07	121.94	118.90
19	S	6	DG	N1-C6-O6	-5.05	116.87	119.90
18	R	1	A	C6-C5-N7	5.05	135.84	132.30
16	P	405	ASP	CB-CG-OD2	5.04	122.83	118.30
2	B	79	LEU	CB-CA-C	-5.04	100.63	110.20
16	P	62	LEU	CA-C-N	-5.04	106.12	117.20
16	P	205	ILE	N-CA-C	5.03	124.57	111.00
2	B	80	ASN	N-CA-CB	-5.02	101.57	110.60
20	T	12	DG	O4'-C4'-C3'	5.01	109.01	106.00
20	T	33	DC	N1-C2-O2	5.01	121.91	118.90
15	O	694	ILE	CB-CA-C	-5.01	101.59	111.60
19	S	21	DT	C4-C5-C6	5.01	121.00	118.00
19	S	29	DT	C5-C6-N1	-5.01	120.70	123.70
16	P	384	GLN	CB-CA-C	-5.00	100.39	110.40

There are no chirality outliers.

All (51) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	58	LEU	Mainchain
18	R	1	A	Sidechain
18	R	6	A	Sidechain
19	S	10	DG	Sidechain
19	S	11	DG	Sidechain
19	S	13	DA	Sidechain
19	S	15	DA	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
19	S	16	DG	Sidechain
19	S	17	DT	Sidechain
19	S	2	DA	Sidechain
19	S	22	DG	Sidechain
19	S	23	DG	Sidechain
19	S	28	DT	Sidechain
19	S	29	DT	Sidechain
19	S	4	DG	Sidechain
19	S	40	DT	Sidechain
19	S	42	DG	Sidechain
19	S	49	DA	Sidechain
19	S	50	DA	Sidechain
19	S	52	DA	Sidechain
19	S	54	DA	Sidechain
19	S	6	DG	Sidechain
19	S	8	DG	Sidechain
19	S	9	DA	Sidechain
20	T	1	DT	Sidechain
20	T	11	DT	Sidechain
20	T	14	DT	Sidechain
20	T	15	DT	Sidechain
20	T	16	DT	Sidechain
20	T	2	DG	Sidechain
20	T	25	DG	Sidechain
20	T	27	DA	Sidechain
20	T	3	DT	Sidechain
20	T	31	DC	Sidechain
20	T	33	DC	Sidechain
20	T	36	DC	Sidechain
20	T	38	DA	Sidechain
20	T	39	DC	Sidechain
20	T	40	DT	Sidechain
20	T	41	DT	Sidechain
20	T	42	DT	Sidechain
20	T	46	DT	Sidechain
20	T	47	DC	Sidechain
20	T	5	DT	Sidechain
20	T	50	DA	Sidechain
20	T	51	DC	Sidechain
20	T	52	DT	Sidechain
20	T	53	DT	Sidechain
20	T	54	DG	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
20	T	6	DT	Sidechain
20	T	7	DC	Sidechain

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	11631	1305	0
2	B	9351	0	9242	1164	0
3	C	2431	0	2418	234	0
4	D	467	0	468	61	0
5	E	1759	0	1788	208	0
6	F	670	0	690	81	0
7	G	1592	0	1600	283	0
8	H	1070	0	1045	142	0
9	I	479	0	480	102	0
10	J	569	0	585	56	0
11	K	810	0	801	71	0
12	L	358	0	381	34	0
13	M	841	0	837	192	0
14	N	1254	0	1266	235	0
15	O	5063	0	4803	2158	0
16	P	3978	0	3983	2055	0
17	Q	2923	0	2968	1061	0
18	R	127	0	67	15	0
19	S	935	0	513	69	0
20	T	1082	0	613	78	0
21	A	2	0	0	2	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
21	P	1	0	0	1	0
All	All	47308	0	46179	8106	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 87.

All (8106) 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)
16:P:417:PHE:CZ	17:Q:270:PHE:CD2	1.76	1.70
17:Q:356:PRO:CG	17:Q:357:PRO:HD3	1.21	1.68
15:O:421:ILE:HD11	17:Q:138:PHE:CE2	1.29	1.67
15:O:702:LEU:HD21	16:P:125:PHE:CE2	1.14	1.66
15:O:369:PHE:CD2	15:O:432:PRO:HG3	1.32	1.65
15:O:669:PHE:CE1	15:O:738:LYS:HE2	1.28	1.64
15:O:436:ILE:HG21	17:Q:141:TRP:CE3	1.13	1.63
15:O:214:LEU:HB2	15:O:236:ILE:CG2	1.21	1.63
16:P:417:PHE:CE2	17:Q:270:PHE:CD2	1.87	1.62
17:Q:127:PHE:CE1	17:Q:131:TYR:CE2	1.83	1.61
16:P:287:TRP:CD1	16:P:300:ASN:HB2	1.34	1.61
16:P:118:TRP:CH2	16:P:189:LYS:HD3	1.34	1.60
15:O:214:LEU:CB	15:O:236:ILE:HG21	1.17	1.60
16:P:209:ASN:HB3	16:P:211:TYR:CE1	1.28	1.60
15:O:653:SER:CB	15:O:656:HIS:HB3	1.27	1.60
16:P:247:ILE:HG21	16:P:302:ALA:CB	1.20	1.60
16:P:208:PRO:CB	16:P:212:VAL:HB	1.28	1.59
17:Q:356:PRO:HG2	17:Q:357:PRO:CD	1.28	1.59
15:O:436:ILE:HG21	17:Q:141:TRP:CZ3	1.08	1.58
16:P:101:LYS:CD	16:P:152:LEU:HD12	1.23	1.58
16:P:381:MET:HE1	16:P:385:PHE:CE2	1.31	1.57
3:C:148:LYS:CE	3:C:151:THR:HG22	1.26	1.57
15:O:436:ILE:CG2	17:Q:141:TRP:CZ3	1.83	1.56
15:O:433:VAL:HB	17:Q:144:VAL:CG1	1.33	1.56
15:O:472:ARG:CZ	17:Q:200:THR:CG2	1.82	1.56
16:P:118:TRP:HH2	16:P:189:LYS:CD	1.12	1.56
16:P:381:MET:HE3	16:P:385:PHE:CD2	1.03	1.56
15:O:18:UNK:CB	17:Q:253:ILE:HD13	1.11	1.55
15:O:205:TYR:HB2	15:O:215:ASN:CB	1.36	1.55
15:O:308:ASN:CB	15:O:365:TRP:CH2	1.79	1.55
17:Q:381:ARG:HA	17:Q:384:VAL:CG2	1.25	1.55
15:O:389:TRP:HZ3	17:Q:148:ASN:CA	0.92	1.55
15:O:421:ILE:CD1	17:Q:138:PHE:CD2	1.86	1.54
16:P:381:MET:CE	16:P:385:PHE:CD2	1.75	1.54
15:O:205:TYR:CB	15:O:215:ASN:HB2	1.35	1.53
14:N:25:ILE:HB	14:N:26:PRO:CD	1.16	1.52
16:P:287:TRP:CH2	16:P:298:VAL:HG22	1.43	1.52
16:P:414:TYR:CB	17:Q:241:ARG:HH12	1.22	1.52
15:O:351:ILE:HB	17:Q:157:MET:CE	1.38	1.52
15:O:310:TRP:CD1	15:O:368:HIS:HE1	1.23	1.52
15:O:24:UNK:HA	17:Q:314:TRP:CH2	1.45	1.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:472:ARG:CZ	17:Q:200:THR:HG23	1.08	1.51
16:P:110:PHE:HE2	16:P:198:ILE:CA	1.08	1.51
16:P:93:LYS:CG	16:P:207:LEU:HB2	1.36	1.51
15:O:194:ARG:CA	15:O:197:ARG:NH2	1.70	1.50
17:Q:247:ILE:HG21	17:Q:278:TYR:CE2	1.41	1.50
15:O:294:PHE:CE1	15:O:297:ILE:HG13	1.44	1.49
15:O:421:ILE:HD11	17:Q:138:PHE:CD2	1.40	1.49
15:O:658:LYS:C	15:O:659:LEU:HD13	1.21	1.49
17:Q:247:ILE:CD1	17:Q:248:LYS:H	1.21	1.49
15:O:423:ILE:HG21	17:Q:141:TRP:CH2	1.47	1.49
16:P:381:MET:CE	16:P:385:PHE:CE2	1.84	1.48
16:P:417:PHE:CE2	17:Q:270:PHE:CE2	2.00	1.48
2:B:1105:ARG:HB3	2:B:1196:LEU:CD2	1.35	1.48
16:P:414:TYR:HB3	17:Q:241:ARG:NH1	1.28	1.48
16:P:235:GLY:HA2	16:P:289:ARG:CB	1.02	1.48
2:B:817:ARG:CG	19:S:26:DT:H5'	1.41	1.48
15:O:592:LEU:HD12	16:P:512:ARG:NH2	1.24	1.47
1:A:42:GLY:HA3	16:P:61:ASN:CB	1.41	1.47
15:O:583:GLU:CD	15:O:584:ARG:HG2	1.30	1.47
15:O:702:LEU:CD2	16:P:125:PHE:CE2	1.96	1.47
2:B:820:PRO:CG	16:P:81:LEU:HD21	1.43	1.46
14:N:96:GLU:CD	14:N:105:SER:HB2	1.23	1.46
16:P:103:LEU:HD11	16:P:211:TYR:CE2	1.46	1.46
15:O:310:TRP:CD1	15:O:368:HIS:CE1	1.98	1.45
16:P:100:ALA:HB1	16:P:211:TYR:CE1	1.48	1.45
15:O:299:ASP:CB	17:Q:159:TYR:HB2	1.45	1.45
2:B:513:LYS:NZ	19:S:42:DG:H4'	1.28	1.45
15:O:656:HIS:CD2	15:O:747:LEU:H	1.32	1.45
2:B:817:ARG:HG3	19:S:26:DT:C5'	1.47	1.45
2:B:1057:MET:SD	16:P:41:PHE:CZ	2.10	1.44
15:O:655:SER:HB3	16:P:244:ASN:CB	1.46	1.44
16:P:9:ILE:HA	16:P:18:ARG:NH2	1.16	1.44
1:A:58:LEU:CD1	1:A:60:ASN:ND2	1.78	1.44
16:P:118:TRP:CH2	16:P:189:LYS:CG	2.01	1.44
16:P:262:LEU:CB	16:P:446:TYR:OH	1.64	1.44
15:O:188:GLN:HB2	15:O:199:GLY:CA	1.43	1.43
15:O:578:PHE:CZ	16:P:312:LEU:HD12	1.50	1.43
15:O:583:GLU:CG	15:O:584:ARG:H	1.19	1.43
1:A:721:LYS:HB3	1:A:722:PRO:CD	1.20	1.43
15:O:702:LEU:HG	16:P:125:PHE:CZ	1.50	1.43
16:P:354:LYS:HG2	16:P:362:THR:CG2	1.46	1.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:206:ARG:HD2	17:Q:211:ARG:NH2	1.32	1.42
17:Q:247:ILE:HG13	17:Q:298:GLN:CG	1.09	1.42
16:P:198:ILE:HB	16:P:200:PRO:CD	1.45	1.42
15:O:655:SER:CB	16:P:244:ASN:HB2	1.49	1.42
16:P:208:PRO:HB3	16:P:212:VAL:CB	1.49	1.42
15:O:592:LEU:CD1	16:P:512:ARG:HH21	1.33	1.41
16:P:9:ILE:CA	16:P:18:ARG:HH21	1.28	1.41
16:P:104:PHE:CD1	16:P:211:TYR:HB2	1.52	1.41
16:P:247:ILE:CG2	16:P:302:ALA:HB3	1.47	1.41
15:O:176:PRO:CD	17:Q:196:GLU:O	1.66	1.41
16:P:101:LYS:NZ	16:P:152:LEU:CD1	1.80	1.41
17:Q:247:ILE:CG1	17:Q:298:GLN:HG2	1.42	1.41
17:Q:381:ARG:CA	17:Q:384:VAL:HG21	1.48	1.40
16:P:414:TYR:CG	17:Q:241:ARG:NH1	1.84	1.40
16:P:416:ILE:C	16:P:418:PRO:HD2	1.40	1.40
16:P:209:ASN:CB	16:P:211:TYR:HE1	1.32	1.40
15:O:222:GLN:NE2	15:O:225:LEU:HB2	1.31	1.40
15:O:389:TRP:CZ3	17:Q:148:ASN:HA	0.87	1.40
15:O:472:ARG:NH2	17:Q:200:THR:HG23	1.12	1.39
16:P:139:LYS:NZ	16:P:242:PHE:CD2	1.82	1.39
16:P:118:TRP:CH2	16:P:189:LYS:CD	1.92	1.39
16:P:386:LEU:O	16:P:388:THR:CG2	1.69	1.39
16:P:469:PRO:HB2	16:P:470:PRO:CD	1.52	1.39
2:B:341:SER:HB3	2:B:342:PRO:CD	1.36	1.39
16:P:263:PRO:CB	16:P:266:PHE:HD2	1.33	1.39
15:O:23:UNK:O	17:Q:314:TRP:CZ3	1.73	1.39
16:P:354:LYS:CG	16:P:362:THR:HG21	1.52	1.39
15:O:308:ASN:HB2	15:O:365:TRP:CZ2	1.56	1.38
15:O:701:HIS:CE1	16:P:122:GLU:O	1.73	1.38
1:A:547:ILE:CD1	16:P:21:ARG:NE	1.85	1.38
15:O:390:GLN:CB	17:Q:151:PRO:HG3	1.54	1.38
2:B:77:LYS:CD	2:B:88:SER:O	1.68	1.38
15:O:421:ILE:CD1	17:Q:138:PHE:CE2	1.99	1.38
1:A:530:TRP:HB3	1:A:531:PRO:CD	1.49	1.37
15:O:310:TRP:HD1	15:O:368:HIS:CE1	1.31	1.37
15:O:357:LEU:HD23	15:O:358:SER:N	1.34	1.37
16:P:198:ILE:CB	16:P:200:PRO:HD3	1.54	1.37
1:A:406:LEU:HD21	1:A:410:LYS:CB	1.55	1.37
15:O:768:TYR:CZ	16:P:145:ASN:OD1	1.75	1.37
15:O:389:TRP:CE3	17:Q:148:ASN:HA	1.58	1.36
16:P:110:PHE:CE2	16:P:198:ILE:HA	1.42	1.36

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:311:ASP:O	15:O:315:PHE:CZ	1.78	1.36
15:O:592:LEU:HD11	16:P:512:ARG:NE	1.38	1.36
16:P:95:LEU:CD2	16:P:99:GLU:CD	1.94	1.36
16:P:95:LEU:HG	16:P:99:GLU:OE2	1.19	1.36
16:P:95:LEU:HD13	16:P:96:ILE:N	1.40	1.36
17:Q:152:ILE:O	17:Q:154:LYS:N	1.57	1.36
9:I:37:TYR:HB2	9:I:38:PRO:CD	1.55	1.35
15:O:15:UNK:O	15:O:20:UNK:CB	1.72	1.35
15:O:656:HIS:HD2	15:O:747:LEU:N	1.22	1.35
15:O:702:LEU:CG	16:P:125:PHE:CZ	2.09	1.35
1:A:406:LEU:CD2	1:A:410:LYS:HB3	1.55	1.35
2:B:1049:THR:CG2	16:P:24:ASP:O	1.71	1.35
15:O:294:PHE:CZ	15:O:297:ILE:HG21	1.60	1.35
15:O:702:LEU:CD2	16:P:125:PHE:CZ	2.09	1.35
16:P:221:PRO:CB	16:P:226:LEU:HD21	1.54	1.35
17:Q:381:ARG:CA	17:Q:384:VAL:CG2	1.98	1.34
1:A:592:GLN:HB3	1:A:593:PRO:CD	1.57	1.34
16:P:101:LYS:NZ	16:P:152:LEU:HD13	1.02	1.34
15:O:577:LEU:HD21	16:P:499:LYS:CG	1.53	1.34
16:P:221:PRO:HB2	16:P:226:LEU:CD2	1.57	1.34
16:P:354:LYS:NZ	16:P:362:THR:HG22	1.41	1.34
16:P:419:LEU:HD21	17:Q:241:ARG:NH2	1.40	1.34
16:P:494:SER:OG	16:P:497:GLN:CB	1.74	1.34
15:O:581:ALA:HB1	15:O:585:GLU:CB	1.56	1.34
16:P:96:ILE:CA	16:P:209:ASN:ND2	1.89	1.34
16:P:287:TRP:CD1	16:P:300:ASN:CB	2.10	1.34
1:A:547:ILE:HD13	16:P:21:ARG:NE	1.03	1.33
16:P:118:TRP:CZ3	16:P:189:LYS:HB3	1.62	1.33
17:Q:281:LYS:O	17:Q:302:ARG:HG2	1.26	1.33
15:O:326:ILE:CG1	15:O:344:ILE:HD13	1.58	1.33
2:B:1061:LYS:HB3	16:P:45:GLU:CB	1.56	1.33
15:O:188:GLN:CB	15:O:199:GLY:HA2	1.58	1.33
15:O:237:GLU:OE2	15:O:239:HIS:CE1	1.81	1.33
15:O:654:LEU:HD21	15:O:748:GLU:OE1	1.25	1.33
16:P:262:LEU:HB3	16:P:446:TYR:CZ	1.62	1.33
17:Q:352:TRP:CE3	17:Q:357:PRO:HG2	1.63	1.33
15:O:722:TRP:CE3	15:O:733:THR:HG21	1.63	1.32
17:Q:247:ILE:CG2	17:Q:278:TYR:HE2	1.39	1.32
15:O:308:ASN:HB2	15:O:365:TRP:CH2	0.90	1.32
15:O:722:TRP:HE1	16:P:262:LEU:CD2	1.39	1.32
16:P:187:THR:OG1	16:P:189:LYS:HG3	1.29	1.32

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:287:TRP:HZ3	16:P:290:THR:CG2	1.41	1.32
15:O:686:TYR:CD2	15:O:692:THR:HG21	1.63	1.32
16:P:414:TYR:CB	17:Q:241:ARG:NH1	1.81	1.32
1:A:921:PRO:HG3	8:H:19:ARG:CG	1.58	1.32
14:N:25:ILE:CB	14:N:26:PRO:HD2	1.51	1.32
15:O:352:PHE:C	15:O:354:PRO:HD2	1.50	1.32
17:Q:154:LYS:O	17:Q:156:LYS:N	1.63	1.32
17:Q:355:THR:CB	17:Q:356:PRO:HD3	1.51	1.32
16:P:496:GLU:OE2	16:P:499:LYS:HB3	1.17	1.31
15:O:14:UNK:CB	15:O:438:TRP:HB2	1.60	1.31
16:P:403:THR:CG2	16:P:405:ASP:HB2	1.59	1.31
16:P:417:PHE:CZ	17:Q:270:PHE:CE2	2.15	1.31
2:B:1105:ARG:CB	2:B:1196:LEU:CD2	2.06	1.31
16:P:366:TYR:CE1	17:Q:215:THR:HA	1.62	1.31
15:O:222:GLN:HE22	15:O:225:LEU:CB	1.40	1.31
15:O:390:GLN:HB3	17:Q:151:PRO:CG	1.58	1.31
16:P:95:LEU:CG	16:P:99:GLU:OE2	1.77	1.31
16:P:287:TRP:CZ3	16:P:290:THR:HG22	1.64	1.31
15:O:18:UNK:CB	17:Q:253:ILE:CD1	2.08	1.31
15:O:653:SER:O	15:O:654:LEU:HG	1.18	1.31
16:P:403:THR:CG2	16:P:406:GLN:H	1.41	1.31
17:Q:246:GLN:O	17:Q:247:ILE:HD13	1.23	1.31
2:B:1052:VAL:HG23	16:P:41:PHE:CD1	1.63	1.30
16:P:263:PRO:CG	16:P:266:PHE:CD2	2.12	1.30
16:P:378:LEU:HD11	17:Q:234:LYS:C	1.48	1.30
15:O:433:VAL:CB	17:Q:144:VAL:HG11	1.61	1.30
16:P:344:THR:HG22	16:P:436:LEU:O	1.22	1.30
15:O:188:GLN:N	15:O:199:GLY:HA3	1.42	1.29
15:O:433:VAL:CB	17:Q:144:VAL:CG1	2.09	1.29
16:P:96:ILE:HA	16:P:209:ASN:ND2	0.97	1.29
16:P:415:LYS:O	16:P:418:PRO:CD	1.80	1.29
2:B:1105:ARG:CB	2:B:1196:LEU:HD21	1.62	1.29
15:O:380:MET:HB2	15:O:394:VAL:CG2	1.60	1.29
15:O:653:SER:CB	15:O:748:GLU:O	1.80	1.29
1:A:58:LEU:HD11	1:A:60:ASN:ND2	0.96	1.29
2:B:820:PRO:HG3	16:P:81:LEU:CD2	1.62	1.29
17:Q:247:ILE:HD13	17:Q:248:LYS:N	1.46	1.29
1:A:530:TRP:CG	1:A:531:PRO:HD3	1.68	1.29
7:G:169:VAL:CG2	7:G:216:HIS:O	1.79	1.29
16:P:235:GLY:CA	16:P:289:ARG:HB2	0.82	1.29
1:A:547:ILE:HD11	16:P:21:ARG:NH2	1.42	1.29

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:912:VAL:HB	1:A:913:PRO:CD	1.55	1.29
15:O:768:TYR:CE2	16:P:145:ASN:OD1	1.85	1.29
16:P:184:TRP:NE1	16:P:190:MET:HB2	1.47	1.29
17:Q:206:ARG:CD	17:Q:211:ARG:HH21	1.45	1.29
15:O:581:ALA:CB	15:O:585:GLU:HB2	1.61	1.28
15:O:588:SER:HB3	16:P:512:ARG:NH1	1.45	1.28
16:P:287:TRP:NE1	16:P:300:ASN:HB2	1.46	1.28
16:P:363:SER:O	16:P:366:TYR:CB	1.80	1.28
16:P:369:TRP:HH2	16:P:377:PHE:CD1	1.51	1.28
1:A:9:SER:HA	2:B:1194:ILE:CD1	1.64	1.28
1:A:721:LYS:CB	1:A:722:PRO:CD	2.07	1.28
2:B:1062:GLY:HA2	20:T:19:DC:OP2	1.24	1.28
15:O:314:GLN:CB	15:O:329:ILE:H	1.46	1.28
15:O:423:ILE:CG2	17:Q:141:TRP:HH2	1.44	1.28
1:A:475:ARG:NH2	2:B:1061:LYS:HE2	1.47	1.28
15:O:722:TRP:CZ3	15:O:733:THR:CG2	2.15	1.28
16:P:93:LYS:HG2	16:P:207:LEU:CB	1.63	1.28
2:B:814:ASN:OD1	2:B:821:ILE:CD1	1.80	1.28
9:I:37:TYR:CB	9:I:38:PRO:HD2	1.54	1.28
15:O:194:ARG:HG2	15:O:197:ARG:NH1	1.47	1.28
15:O:390:GLN:OE1	17:Q:151:PRO:HB2	1.22	1.28
15:O:475:ARG:HG3	15:O:497:VAL:O	1.11	1.28
15:O:706:GLU:HG3	16:P:438:PHE:CB	1.63	1.28
15:O:357:LEU:CD2	15:O:358:SER:H	1.46	1.27
15:O:686:TYR:CG	15:O:692:THR:HG21	1.67	1.27
16:P:363:SER:O	16:P:366:TYR:HB3	1.11	1.27
17:Q:266:SER:O	17:Q:268:LEU:N	1.66	1.27
2:B:341:SER:CB	2:B:342:PRO:HD2	1.50	1.27
15:O:346:ASN:O	15:O:347:LEU:HG	1.18	1.27
15:O:375:PHE:HD1	15:O:380:MET:CA	1.46	1.27
15:O:422:ILE:O	15:O:439:LYS:HB2	1.20	1.27
15:O:653:SER:HB2	15:O:748:GLU:O	1.27	1.27
16:P:199:LEU:N	16:P:200:PRO:CD	1.96	1.27
16:P:403:THR:HG23	16:P:405:ASP:CA	1.65	1.27
1:A:475:ARG:HH21	2:B:1061:LYS:CE	1.46	1.27
2:B:1061:LYS:CB	16:P:45:GLU:HB2	1.64	1.27
1:A:592:GLN:CG	1:A:593:PRO:HD3	1.62	1.27
15:O:653:SER:CB	15:O:656:HIS:CB	2.12	1.27
15:O:771:ILE:CG2	16:P:109:GLN:HE22	1.47	1.27
16:P:330:TRP:CH2	16:P:334:LEU:HD11	1.70	1.27
2:B:1057:MET:CE	16:P:41:PHE:HZ	1.47	1.26

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:275:GLU:HB3	15:O:285:MET:O	1.29	1.26
17:Q:31:PHE:HA	17:Q:34:ILE:CG2	1.64	1.26
17:Q:158:THR:O	17:Q:160:HIS:N	1.67	1.26
3:C:151:THR:O	3:C:155:GLU:HB3	1.22	1.26
15:O:12:UNK:CB	15:O:439:LYS:NZ	1.98	1.26
15:O:380:MET:CB	15:O:394:VAL:HG21	1.64	1.26
17:Q:247:ILE:O	17:Q:250:LEU:HB2	1.33	1.26
2:B:341:SER:CB	2:B:342:PRO:CD	2.02	1.26
2:B:1057:MET:SD	16:P:41:PHE:HZ	1.49	1.26
9:I:38:PRO:O	9:I:40:SER:N	1.67	1.26
15:O:436:ILE:CG2	17:Q:141:TRP:CE3	2.02	1.26
15:O:736:ILE:HD13	15:O:739:ASP:OD2	1.28	1.26
16:P:415:LYS:O	16:P:418:PRO:HD3	1.31	1.26
17:Q:358:PHE:CE1	17:Q:365:TRP:HZ3	1.54	1.26
1:A:721:LYS:HG2	8:H:94:ASP:O	1.25	1.26
17:Q:127:PHE:CE1	17:Q:131:TYR:CD2	2.23	1.26
15:O:658:LYS:O	15:O:659:LEU:HD13	1.16	1.26
1:A:58:LEU:HD12	1:A:58:LEU:O	1.09	1.25
15:O:326:ILE:HG12	15:O:344:ILE:CD1	1.65	1.25
17:Q:358:PHE:CD1	17:Q:365:TRP:CZ3	2.23	1.25
2:B:819:ASP:CB	2:B:820:PRO:HD2	1.51	1.25
9:I:26:SER:O	9:I:37:TYR:CZ	1.88	1.25
15:O:11:UNK:O	15:O:436:ILE:HG12	1.32	1.25
16:P:101:LYS:CD	16:P:152:LEU:CD1	2.13	1.25
1:A:912:VAL:CB	1:A:913:PRO:HD2	1.63	1.25
16:P:147:GLN:N	16:P:148:PRO:HD3	1.41	1.25
16:P:257:VAL:CG1	16:P:262:LEU:HD12	1.65	1.25
2:B:77:LYS:CB	2:B:88:SER:O	1.83	1.25
2:B:90:TYR:C	2:B:91:LEU:HD13	1.56	1.25
15:O:353:ASP:OD1	15:O:354:PRO:CD	1.83	1.25
16:P:263:PRO:CB	16:P:266:PHE:CD2	2.20	1.25
17:Q:355:THR:HB	17:Q:356:PRO:CD	1.66	1.25
17:Q:393:ILE:CD1	17:Q:397:ARG:O	1.83	1.25
15:O:428:GLU:CG	15:O:435:ARG:HB3	1.67	1.24
17:Q:380:SER:O	17:Q:384:VAL:HG13	1.14	1.24
16:P:146:ASP:C	16:P:148:PRO:HD3	1.57	1.24
16:P:234:CYS:SG	16:P:286:LEU:HD21	1.78	1.24
16:P:263:PRO:CG	16:P:266:PHE:HD2	1.49	1.24
17:Q:182:LYS:HG3	19:S:10:DG:OP1	1.07	1.24
16:P:95:LEU:CD1	16:P:100:ALA:HB2	1.65	1.24
17:Q:127:PHE:CE1	17:Q:131:TYR:HE2	1.33	1.24

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1049:THR:HG22	16:P:24:ASP:O	1.08	1.24
2:B:1060:VAL:HB	16:P:43:ASP:O	1.29	1.24
16:P:156:LEU:O	16:P:160:SER:HB2	1.23	1.24
17:Q:281:LYS:O	17:Q:302:ARG:CG	1.83	1.24
2:B:1051:PRO:HA	16:P:40:GLU:OE1	1.37	1.23
2:B:1060:VAL:CB	16:P:43:ASP:O	1.86	1.23
15:O:351:ILE:CB	17:Q:157:MET:HE1	1.68	1.23
15:O:656:HIS:CD2	15:O:747:LEU:N	1.97	1.23
16:P:257:VAL:CG1	16:P:263:PRO:HD2	1.69	1.23
16:P:344:THR:HG22	16:P:436:LEU:C	1.44	1.23
16:P:494:SER:CB	16:P:497:GLN:HB3	1.68	1.23
17:Q:247:ILE:CG1	17:Q:298:GLN:CG	1.88	1.23
15:O:653:SER:OG	15:O:656:HIS:CB	1.86	1.23
1:A:547:ILE:CD1	16:P:21:ARG:CZ	2.17	1.22
2:B:77:LYS:HD2	2:B:88:SER:O	1.14	1.22
16:P:417:PHE:O	16:P:419:LEU:N	1.72	1.22
15:O:19:UNK:CB	17:Q:255:VAL:HG23	1.67	1.22
15:O:725:VAL:CG1	16:P:452:PHE:HB2	1.69	1.22
16:P:103:LEU:CD1	16:P:211:TYR:HE2	1.52	1.22
17:Q:380:SER:C	17:Q:384:VAL:HG13	1.57	1.22
15:O:581:ALA:CB	15:O:585:GLU:CB	2.17	1.22
16:P:212:VAL:O	16:P:215:LEU:HD22	1.09	1.22
16:P:287:TRP:CZ3	16:P:298:VAL:CG2	2.23	1.22
15:O:214:LEU:C	15:O:236:ILE:CG1	2.06	1.22
16:P:204:ARG:HH22	19:S:15:DA:P	1.61	1.22
14:N:25:ILE:CB	14:N:26:PRO:CD	2.05	1.22
14:N:96:GLU:OE1	14:N:105:SER:HB2	1.34	1.22
16:P:63:THR:HG23	16:P:64:THR:N	1.48	1.22
16:P:103:LEU:CD2	16:P:206:GLN:NE2	2.03	1.22
16:P:139:LYS:NZ	16:P:242:PHE:CE2	2.05	1.22
17:Q:283:ARG:N	17:Q:302:ARG:HG3	1.52	1.22
17:Q:298:GLN:O	17:Q:299:THR:HG22	1.32	1.22
1:A:721:LYS:CG	8:H:94:ASP:O	1.85	1.21
15:O:583:GLU:CD	15:O:584:ARG:H	1.40	1.21
16:P:199:LEU:HD12	16:P:199:LEU:O	1.40	1.21
16:P:494:SER:HB3	16:P:497:GLN:OE1	1.39	1.21
2:B:1104:CYS:HB3	2:B:1107:CYS:SG	1.79	1.21
15:O:375:PHE:CE1	15:O:380:MET:HB3	1.76	1.21
16:P:93:LYS:CG	16:P:207:LEU:CB	2.18	1.21
16:P:212:VAL:O	16:P:215:LEU:CD2	1.88	1.21
15:O:347:LEU:HD22	17:Q:151:PRO:O	1.39	1.21

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:101:LYS:HD2	16:P:152:LEU:CD1	1.70	1.21
17:Q:284:PHE:CZ	19:S:22:DG:H5'	1.76	1.21
17:Q:356:PRO:CG	17:Q:357:PRO:CD	1.98	1.21
2:B:117:VAL:HG23	17:Q:276:GLN:CG	1.70	1.21
2:B:819:ASP:CB	2:B:820:PRO:CD	2.19	1.21
2:B:1052:VAL:HG22	16:P:40:GLU:O	1.05	1.21
15:O:653:SER:O	15:O:654:LEU:CG	1.89	1.21
16:P:119:LEU:HD11	16:P:165:LEU:CD1	1.69	1.21
16:P:287:TRP:CZ3	16:P:298:VAL:HG21	1.74	1.21
2:B:77:LYS:HB3	2:B:88:SER:O	1.36	1.20
2:B:1057:MET:SD	16:P:41:PHE:CE1	2.34	1.20
15:O:428:GLU:HA	15:O:435:ARG:CD	1.70	1.20
1:A:9:SER:CA	2:B:1194:ILE:HD11	1.69	1.20
1:A:58:LEU:N	1:A:69:GLU:OE2	1.74	1.20
16:P:235:GLY:CA	16:P:289:ARG:CB	1.75	1.20
3:C:148:LYS:CE	3:C:151:THR:CG2	2.18	1.20
15:O:669:PHE:CE1	15:O:738:LYS:CE	2.23	1.20
16:P:247:ILE:CD1	16:P:286:LEU:HA	1.71	1.20
15:O:351:ILE:CB	17:Q:157:MET:CE	2.17	1.20
17:Q:31:PHE:CA	17:Q:34:ILE:HG22	1.70	1.20
17:Q:149:LYS:O	17:Q:151:PRO:HD3	1.42	1.20
9:I:30:CYS:CB	9:I:33:CYS:SG	2.30	1.20
15:O:701:HIS:HE1	16:P:122:GLU:O	0.85	1.20
1:A:530:TRP:CB	1:A:531:PRO:CD	2.15	1.19
14:N:26:PRO:O	14:N:28:GLY:N	1.72	1.19
15:O:436:ILE:CB	17:Q:141:TRP:CZ3	2.25	1.19
15:O:475:ARG:NH2	15:O:496:THR:HG23	1.55	1.19
17:Q:380:SER:O	17:Q:384:VAL:CG1	1.90	1.19
15:O:353:ASP:N	15:O:354:PRO:CD	2.03	1.19
15:O:366:PHE:CE2	15:O:432:PRO:HA	1.76	1.19
15:O:686:TYR:HB3	15:O:692:THR:CG2	1.72	1.19
16:P:209:ASN:CB	16:P:211:TYR:CE1	2.10	1.19
1:A:42:GLY:CA	16:P:61:ASN:CB	2.19	1.19
16:P:95:LEU:CD1	16:P:96:ILE:H	1.55	1.19
1:A:1476:LEU:HB3	1:A:1480:THR:HG21	1.22	1.19
2:B:77:LYS:CG	2:B:88:SER:O	1.88	1.19
15:O:583:GLU:OE2	15:O:584:ARG:HG2	1.41	1.19
15:O:768:TYR:CE1	16:P:145:ASN:OD1	1.94	1.19
16:P:494:SER:O	16:P:496:GLU:N	1.74	1.19
18:R:1:A:N1	20:T:22:DG:O6	1.75	1.19
1:A:921:PRO:HG3	8:H:19:ARG:HG3	1.19	1.19

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:90:TYR:O	2:B:91:LEU:HD13	1.07	1.19
5:E:3:GLN:O	5:E:7:ARG:HB2	1.41	1.19
15:O:214:LEU:O	15:O:236:ILE:HB	1.38	1.19
16:P:198:ILE:CG2	16:P:200:PRO:HD3	1.73	1.19
1:A:920:PHE:HB3	1:A:921:PRO:CD	1.71	1.18
15:O:6:UNK:O	17:Q:425:ALA:CA	1.88	1.18
15:O:700:LEU:HD23	15:O:709:PRO:HG2	1.21	1.18
16:P:369:TRP:CH2	16:P:377:PHE:CD1	2.29	1.18
16:P:415:LYS:C	16:P:418:PRO:HD3	1.61	1.18
15:O:375:PHE:CD1	15:O:380:MET:CA	2.27	1.18
15:O:656:HIS:O	15:O:747:LEU:HB2	1.37	1.18
16:P:287:TRP:CH2	16:P:298:VAL:CG2	2.25	1.18
17:Q:155:GLN:O	17:Q:157:MET:N	1.75	1.18
16:P:93:LYS:NZ	16:P:94:LYS:H	1.41	1.18
17:Q:279:SER:O	17:Q:301:SER:CB	1.90	1.18
2:B:1051:PRO:CA	16:P:40:GLU:OE1	1.90	1.18
7:G:162:ILE:HG12	7:G:249:LEU:HD12	1.24	1.18
15:O:357:LEU:HD23	15:O:358:SER:CB	1.73	1.18
15:O:577:LEU:HG	16:P:499:LYS:HE2	1.22	1.18
15:O:653:SER:HB3	15:O:656:HIS:CB	1.69	1.18
16:P:156:LEU:O	16:P:160:SER:CB	1.92	1.18
17:Q:361:ASP:OD1	17:Q:362:ALA:N	1.75	1.18
15:O:353:ASP:OD1	15:O:354:PRO:HD3	1.40	1.18
15:O:389:TRP:CZ3	17:Q:148:ASN:CA	1.76	1.18
16:P:100:ALA:HB1	16:P:211:TYR:CZ	1.79	1.18
16:P:198:ILE:HB	16:P:200:PRO:CG	1.73	1.18
16:P:287:TRP:CE2	16:P:298:VAL:HG13	1.79	1.18
16:P:385:PHE:O	16:P:388:THR:HG22	1.44	1.18
16:P:415:LYS:O	16:P:418:PRO:CG	1.89	1.18
15:O:672:ILE:HD12	15:O:734:LYS:NZ	1.58	1.17
16:P:18:ARG:C	16:P:30:GLN:HG3	1.64	1.17
16:P:119:LEU:CD1	16:P:165:LEU:HD12	1.74	1.17
16:P:157:HIS:NE2	16:P:158:MET:HG2	1.59	1.17
16:P:386:LEU:O	16:P:388:THR:HG23	1.02	1.17
16:P:415:LYS:O	16:P:418:PRO:HG3	1.43	1.17
1:A:592:GLN:CB	1:A:593:PRO:CD	2.20	1.17
15:O:352:PHE:C	15:O:354:PRO:CD	2.12	1.17
15:O:592:LEU:CD1	16:P:512:ARG:NH2	1.97	1.17
16:P:207:LEU:O	16:P:209:ASN:N	1.75	1.17
17:Q:125:ARG:NH1	19:S:19:DG:H4'	1.59	1.17
16:P:492:ALA:C	16:P:493:ILE:HD12	1.65	1.17

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:218:VAL:HA	7:G:224:PRO:HA	1.26	1.17
15:O:314:GLN:O	15:O:328:ARG:HA	1.43	1.17
15:O:653:SER:OG	15:O:656:HIS:HB3	1.01	1.17
2:B:79:LEU:HB2	2:B:87:ASN:HB3	1.26	1.17
3:C:148:LYS:HE2	3:C:151:THR:CG2	1.72	1.17
15:O:353:ASP:N	15:O:354:PRO:HD3	1.50	1.17
15:O:384:ASP:HB3	15:O:389:TRP:HB3	1.21	1.17
16:P:247:ILE:HD12	16:P:286:LEU:CA	1.73	1.17
17:Q:353:VAL:HA	17:Q:358:PHE:CE2	1.80	1.17
15:O:706:GLU:HG3	16:P:438:PHE:HB2	1.19	1.16
3:C:151:THR:O	3:C:155:GLU:CB	1.94	1.16
15:O:353:ASP:OD1	15:O:354:PRO:CG	1.94	1.16
15:O:353:ASP:C	17:Q:28:SER:HA	1.66	1.16
15:O:771:ILE:CG2	16:P:109:GLN:NE2	2.06	1.16
2:B:819:ASP:HB2	2:B:820:PRO:CD	1.75	1.16
15:O:369:PHE:CD2	15:O:432:PRO:CG	2.28	1.16
16:P:208:PRO:HB3	16:P:212:VAL:CG2	1.74	1.16
1:A:415:ASP:O	1:A:417:ARG:N	1.77	1.16
15:O:294:PHE:CZ	15:O:297:ILE:CG2	2.28	1.16
16:P:178:THR:OG1	16:P:490:ASP:HB3	1.42	1.16
16:P:262:LEU:HB2	16:P:446:TYR:OH	1.41	1.16
16:P:357:TYR:HB3	17:Q:211:ARG:CD	1.74	1.16
15:O:390:GLN:OE1	17:Q:151:PRO:CB	1.94	1.16
15:O:658:LYS:C	15:O:659:LEU:CD1	2.15	1.16
16:P:146:ASP:C	16:P:148:PRO:CD	2.14	1.16
14:N:96:GLU:OE1	14:N:105:SER:CB	1.93	1.15
15:O:722:TRP:O	15:O:726:SER:HB3	1.45	1.15
16:P:93:LYS:CD	16:P:207:LEU:HB2	1.76	1.15
1:A:410:LYS:C	1:A:413:LEU:HD11	1.65	1.15
7:G:45:LEU:HD13	7:G:47:VAL:HG13	1.28	1.15
15:O:422:ILE:HB	15:O:440:HIS:CE1	1.81	1.15
15:O:641:TRP:CH2	15:O:752:LEU:HD22	1.82	1.15
15:O:694:ILE:HD11	15:O:698:LYS:HD2	1.15	1.15
2:B:1106:GLU:HA	2:B:1196:LEU:HD11	1.22	1.15
15:O:653:SER:HB3	15:O:656:HIS:CG	1.82	1.15
2:B:820:PRO:CG	16:P:81:LEU:CD2	2.22	1.15
15:O:663:LEU:HD12	15:O:742:TRP:HH2	1.08	1.15
16:P:118:TRP:CH2	16:P:189:LYS:HB3	1.82	1.15
16:P:183:LYS:HD3	16:P:189:LYS:HZ2	0.99	1.15
16:P:403:THR:CG2	16:P:406:GLN:N	2.10	1.15
17:Q:246:GLN:O	17:Q:248:LYS:N	1.78	1.15

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:T:21:DT:H1'	20:T:22:DG:O4'	1.45	1.15
16:P:156:LEU:HG	16:P:157:HIS:N	1.53	1.15
17:Q:125:ARG:HH12	19:S:19:DG:C4'	1.60	1.15
2:B:1061:LYS:CB	16:P:45:GLU:CB	2.23	1.14
15:O:658:LYS:O	15:O:659:LEU:CD1	1.93	1.14
15:O:705:HIS:NE2	15:O:707:ASP:HB2	1.62	1.14
2:B:77:LYS:HG2	2:B:91:LEU:CA	1.77	1.14
2:B:1151:ILE:HA	2:B:1160:GLU:O	1.43	1.14
15:O:583:GLU:CG	15:O:584:ARG:N	1.91	1.14
17:Q:281:LYS:C	17:Q:302:ARG:HG2	1.68	1.14
2:B:251:HIS:HE1	2:B:261:ARG:HD2	1.04	1.14
15:O:214:LEU:O	15:O:236:ILE:CB	1.95	1.14
15:O:390:GLN:CB	17:Q:151:PRO:CG	2.18	1.14
15:O:472:ARG:NH2	17:Q:200:THR:CG2	1.97	1.14
15:O:656:HIS:HB2	15:O:747:LEU:CA	1.78	1.14
15:O:6:UNK:O	17:Q:425:ALA:HA	0.98	1.14
15:O:194:ARG:O	15:O:196:TYR:HD2	1.31	1.14
15:O:223:ASN:O	15:O:224:THR:HG23	1.45	1.14
15:O:299:ASP:HB3	17:Q:159:TYR:HB2	1.20	1.14
15:O:586:LYS:NZ	16:P:322:ARG:HH22	1.44	1.14
16:P:95:LEU:CD2	16:P:99:GLU:OE1	1.95	1.14
16:P:104:PHE:CG	16:P:211:TYR:HB2	1.82	1.14
16:P:247:ILE:CG2	16:P:302:ALA:CB	2.11	1.14
2:B:341:SER:HB2	2:B:342:PRO:HD2	1.21	1.14
3:C:151:THR:HB	3:C:155:GLU:OE1	1.47	1.14
15:O:577:LEU:CD2	16:P:499:LYS:HG3	1.76	1.14
15:O:581:ALA:O	15:O:585:GLU:HB3	1.48	1.14
16:P:118:TRP:CH2	16:P:189:LYS:CB	2.30	1.14
16:P:287:TRP:CZ3	16:P:290:THR:CG2	2.24	1.14
2:B:113:VAL:HG23	2:B:114:SER:H	0.99	1.13
16:P:106:LYS:HE2	16:P:203:TRP:CH2	1.82	1.13
16:P:223:ASN:HA	16:P:492:ALA:O	1.43	1.13
16:P:336:GLU:O	16:P:339:THR:HG23	1.42	1.13
16:P:419:LEU:CD2	17:Q:241:ARG:HH21	1.61	1.13
17:Q:33:ARG:HH12	17:Q:36:LYS:HD3	1.04	1.13
1:A:58:LEU:CD1	1:A:58:LEU:O	1.94	1.13
2:B:1057:MET:CE	16:P:41:PHE:CZ	2.30	1.13
15:O:585:GLU:O	15:O:588:SER:N	1.81	1.13
15:O:672:ILE:HD12	15:O:734:LYS:HZ1	1.01	1.13
16:P:262:LEU:HB3	16:P:446:TYR:OH	1.22	1.13
16:P:286:LEU:HD23	16:P:287:TRP:O	1.48	1.13

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:344:THR:CG2	16:P:436:LEU:O	1.96	1.13
15:O:366:PHE:HD2	15:O:432:PRO:HB3	1.09	1.13
17:Q:279:SER:O	17:Q:301:SER:HB2	1.47	1.13
17:Q:358:PHE:CE1	17:Q:365:TRP:CZ3	2.34	1.13
14:N:25:ILE:HB	14:N:26:PRO:HD3	1.31	1.13
15:O:19:UNK:CB	17:Q:255:VAL:CG2	2.25	1.13
15:O:656:HIS:CG	15:O:747:LEU:O	2.01	1.13
16:P:494:SER:HB3	16:P:497:GLN:CD	1.68	1.13
1:A:113:VAL:HG11	1:A:178:LEU:HB3	1.29	1.12
1:A:410:LYS:CA	1:A:413:LEU:HD11	1.77	1.12
15:O:577:LEU:HD21	16:P:499:LYS:HG3	1.19	1.12
15:O:656:HIS:HB2	15:O:747:LEU:CB	1.79	1.12
15:O:669:PHE:O	15:O:738:LYS:NZ	1.80	1.12
16:P:119:LEU:CD1	16:P:165:LEU:CD1	2.27	1.12
16:P:238:HIS:CE1	16:P:289:ARG:CZ	2.32	1.13
16:P:263:PRO:HG2	16:P:266:PHE:CB	1.78	1.12
17:Q:28:SER:O	17:Q:32:ASP:OD1	1.67	1.12
1:A:377:VAL:HG21	16:P:58:ARG:HG2	1.25	1.12
15:O:375:PHE:CD1	15:O:380:MET:HA	1.82	1.12
15:O:771:ILE:HG23	16:P:109:GLN:OE1	1.42	1.12
2:B:1052:VAL:CG2	16:P:40:GLU:O	1.97	1.12
15:O:10:UNK:CB	17:Q:141:TRP:O	1.96	1.12
15:O:356:GLU:CB	17:Q:24:ILE:CD1	2.27	1.12
15:O:768:TYR:CD2	16:P:145:ASN:ND2	2.17	1.12
16:P:357:TYR:O	17:Q:211:ARG:CZ	1.98	1.12
17:Q:356:PRO:CD	17:Q:357:PRO:CD	2.28	1.12
2:B:113:VAL:HG23	2:B:114:SER:N	1.58	1.12
15:O:194:ARG:O	15:O:196:TYR:CD2	2.02	1.12
17:Q:274:MET:HA	17:Q:277:ILE:HG22	1.31	1.12
1:A:1014:SER:HB3	20:T:15:DT:H5"	1.25	1.12
7:G:169:VAL:HG23	7:G:216:HIS:O	1.37	1.12
15:O:415:LEU:HD13	15:O:453:VAL:HG11	1.30	1.12
15:O:436:ILE:CG2	17:Q:141:TRP:CH2	2.33	1.12
15:O:475:ARG:CG	15:O:497:VAL:O	1.96	1.12
15:O:583:GLU:HG2	15:O:584:ARG:N	1.44	1.12
15:O:663:LEU:HG	15:O:666:SER:HB3	1.31	1.12
16:P:353:VAL:O	16:P:356:VAL:HG22	1.48	1.12
1:A:569:SER:HG	4:D:12:THR:N	1.48	1.11
15:O:294:PHE:CE1	15:O:297:ILE:CG1	2.34	1.11
15:O:315:PHE:O	15:O:317:ILE:HD12	1.47	1.11
16:P:205:ILE:O	16:P:207:LEU:N	1.83	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:15:ASP:HB2	2:B:1190:SER:HB2	1.25	1.11
3:C:148:LYS:HE3	3:C:151:THR:HG22	1.20	1.11
15:O:326:ILE:HB	15:O:344:ILE:HG21	1.29	1.11
15:O:389:TRP:HZ3	17:Q:148:ASN:N	1.48	1.11
16:P:416:ILE:C	16:P:418:PRO:CD	2.18	1.11
1:A:385:LEU:HG	1:A:453:ILE:HD11	1.22	1.11
2:B:95:LEU:HD22	2:B:440:PHE:CD2	1.85	1.11
2:B:1137:ASP:O	2:B:1140:LYS:HG2	1.45	1.11
3:C:120:LEU:HD13	3:C:124:GLU:HB2	1.33	1.11
15:O:366:PHE:CE2	15:O:432:PRO:CA	2.33	1.11
15:O:616:SER:C	15:O:618:ASP:N	1.79	1.11
15:O:616:SER:C	15:O:618:ASP:H	1.28	1.11
15:O:654:LEU:CD2	15:O:748:GLU:OE1	1.97	1.11
17:Q:131:TYR:O	17:Q:132:GLU:HB2	1.50	1.11
1:A:547:ILE:HD11	16:P:21:ARG:CZ	1.77	1.11
2:B:1061:LYS:HB3	16:P:45:GLU:CA	1.80	1.11
15:O:10:UNK:CB	17:Q:142:ARG:HA	1.80	1.11
15:O:12:UNK:HA	15:O:436:ILE:HD11	1.23	1.11
15:O:380:MET:HB2	15:O:394:VAL:HG21	1.19	1.11
15:O:665:ASN:O	15:O:667:ASP:N	1.83	1.11
16:P:27:ARG:HH21	16:P:69:SER:HB2	1.01	1.11
16:P:156:LEU:CG	16:P:157:HIS:H	1.60	1.11
16:P:235:GLY:HA3	16:P:289:ARG:HB2	1.20	1.11
17:Q:248:LYS:HD2	17:Q:298:GLN:HE22	1.03	1.11
15:O:10:UNK:CB	17:Q:141:TRP:C	2.19	1.11
15:O:421:ILE:CD1	17:Q:138:PHE:HD2	1.39	1.11
15:O:771:ILE:HG21	16:P:109:GLN:NE2	1.60	1.11
16:P:263:PRO:HG3	16:P:266:PHE:CD2	1.85	1.11
1:A:920:PHE:HB3	1:A:921:PRO:HD3	1.33	1.10
15:O:299:ASP:HB2	17:Q:159:TYR:CD2	1.86	1.10
15:O:650:LEU:HB2	16:P:242:PHE:HE2	1.14	1.10
15:O:722:TRP:HE1	16:P:262:LEU:CG	1.62	1.10
16:P:183:LYS:HD3	16:P:189:LYS:NZ	1.66	1.10
15:O:18:UNK:CB	17:Q:252:GLY:O	1.98	1.10
15:O:352:PHE:HB2	15:O:355:GLU:CB	1.82	1.10
15:O:436:ILE:HG21	17:Q:141:TRP:CH2	1.85	1.10
15:O:472:ARG:NE	17:Q:200:THR:CG2	2.15	1.10
15:O:586:LYS:NZ	16:P:322:ARG:NH2	1.99	1.10
15:O:722:TRP:HB2	15:O:730:GLU:OE2	1.50	1.10
1:A:378:HIS:HA	16:P:54:GLY:O	1.47	1.10
15:O:399:TRP:O	15:O:419:ARG:NH2	1.84	1.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:589:ILE:HG23	16:P:316:TRP:HE3	1.01	1.10
15:O:616:SER:HA	15:O:620:ASP:H	0.97	1.10
15:O:663:LEU:CD1	15:O:742:TRP:HH2	1.63	1.10
15:O:727:PRO:HD3	16:P:264:PRO:HG2	1.31	1.10
16:P:110:PHE:CE2	16:P:198:ILE:CA	1.98	1.10
16:P:147:GLN:N	16:P:148:PRO:CD	2.14	1.10
16:P:204:ARG:NH2	19:S:15:DA:P	2.23	1.10
17:Q:206:ARG:CD	17:Q:211:ARG:NH2	2.06	1.10
1:A:1298:ASP:HB3	1:A:1301:GLU:HG3	1.11	1.10
2:B:814:ASN:OD1	2:B:821:ILE:HD11	1.44	1.10
15:O:214:LEU:C	15:O:236:ILE:HG13	1.64	1.10
15:O:375:PHE:CD1	15:O:380:MET:CB	2.35	1.10
15:O:422:ILE:CB	15:O:440:HIS:CE1	2.34	1.10
15:O:440:HIS:ND1	15:O:481:PHE:HZ	1.49	1.10
15:O:589:ILE:HG23	16:P:316:TRP:CE3	1.84	1.10
15:O:700:LEU:HD21	15:O:714:PHE:HB2	1.14	1.10
16:P:204:ARG:NH1	19:S:15:DA:OP1	1.84	1.10
16:P:403:THR:HG22	16:P:406:GLN:H	1.13	1.10
17:Q:213:ILE:HA	17:Q:216:LEU:HD12	1.18	1.10
17:Q:353:VAL:HG22	17:Q:353:VAL:O	1.40	1.10
1:A:1019:LEU:HD21	1:A:1222:LEU:HD23	1.32	1.10
2:B:1052:VAL:CG2	16:P:41:PHE:CD1	2.35	1.10
13:M:43:LYS:O	13:M:49:ASP:OD1	1.67	1.10
15:O:422:ILE:CG2	15:O:440:HIS:CE1	2.34	1.10
16:P:208:PRO:O	16:P:211:TYR:CG	2.05	1.10
16:P:212:VAL:HG13	16:P:215:LEU:HD13	1.32	1.10
16:P:221:PRO:HB3	16:P:226:LEU:CD1	1.80	1.10
17:Q:136:LYS:CD	17:Q:304:HIS:HA	1.82	1.10
2:B:117:VAL:CG2	17:Q:276:GLN:HG2	1.82	1.09
15:O:299:ASP:HB2	17:Q:159:TYR:HB2	1.20	1.09
15:O:475:ARG:HD3	16:P:367:PHE:CZ	1.87	1.09
15:O:702:LEU:CD2	16:P:125:PHE:HE2	1.47	1.09
2:B:77:LYS:HA	2:B:92:GLY:N	1.68	1.09
15:O:10:UNK:O	17:Q:141:TRP:CB	1.99	1.09
15:O:24:UNK:CA	17:Q:314:TRP:CH2	2.34	1.09
15:O:353:ASP:OD1	15:O:354:PRO:HG3	1.49	1.09
15:O:472:ARG:NE	17:Q:200:THR:HG21	1.67	1.09
15:O:589:ILE:HG21	16:P:320:PHE:CE2	1.88	1.09
15:O:650:LEU:HB2	16:P:242:PHE:CE2	1.86	1.09
15:O:696:PHE:HB3	15:O:711:LEU:HD12	1.34	1.09
15:O:722:TRP:CE3	15:O:733:THR:CG2	2.29	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:740:ILE:HG21	16:P:250:GLN:HB3	1.17	1.09
16:P:95:LEU:HD12	16:P:100:ALA:HB2	1.19	1.09
16:P:257:VAL:HG13	16:P:263:PRO:CD	1.82	1.09
17:Q:158:THR:CG2	17:Q:161:ASN:HB2	1.82	1.09
1:A:721:LYS:NZ	8:H:90:ALA:O	1.84	1.09
15:O:309:PRO:O	15:O:368:HIS:CD2	2.06	1.09
15:O:428:GLU:HG2	15:O:435:ARG:CB	1.83	1.09
15:O:599:LYS:HB3	16:P:272:GLN:HE22	1.03	1.09
16:P:48:LEU:HD12	20:T:22:DG:O5'	1.51	1.09
16:P:263:PRO:CG	16:P:266:PHE:HB2	1.80	1.09
8:H:111:LEU:HD23	8:H:128:ASN:HB3	1.34	1.09
15:O:12:UNK:CB	15:O:439:LYS:HZ1	1.59	1.09
15:O:380:MET:CG	15:O:394:VAL:HG21	1.82	1.09
16:P:221:PRO:HB3	16:P:226:LEU:HD11	1.12	1.09
16:P:263:PRO:HG2	16:P:266:PHE:HB2	1.09	1.09
17:Q:381:ARG:C	17:Q:384:VAL:HG22	1.71	1.09
1:A:58:LEU:HB2	16:P:63:THR:HG22	1.25	1.09
2:B:817:ARG:NH1	19:S:25:DT:O2	1.85	1.09
14:N:95:ILE:HD12	14:N:96:GLU:HG2	1.25	1.09
15:O:273:ARG:NH1	15:O:274:ILE:HG23	1.68	1.09
15:O:757:GLN:O	15:O:760:ILE:HG23	1.50	1.09
16:P:95:LEU:HD23	16:P:99:GLU:OE1	1.51	1.09
17:Q:247:ILE:CD1	17:Q:248:LYS:N	2.04	1.09
17:Q:248:LYS:H	17:Q:298:GLN:NE2	1.49	1.09
1:A:721:LYS:CB	1:A:722:PRO:HD2	1.74	1.08
15:O:353:ASP:HB2	17:Q:28:SER:O	1.53	1.08
15:O:366:PHE:HE2	15:O:432:PRO:CA	1.63	1.08
15:O:633:ALA:HB3	15:O:662:LEU:HD13	1.34	1.08
16:P:199:LEU:N	16:P:200:PRO:HD2	1.36	1.08
16:P:341:ARG:HB2	16:P:445:ARG:HH22	1.18	1.08
1:A:42:GLY:HA3	16:P:61:ASN:HB3	1.35	1.08
15:O:275:GLU:CB	15:O:285:MET:O	2.01	1.08
15:O:356:GLU:HB2	17:Q:24:ILE:HD11	1.31	1.08
15:O:422:ILE:O	15:O:439:LYS:CB	2.00	1.08
16:P:217:GLY:O	16:P:219:ILE:N	1.84	1.08
16:P:419:LEU:HB3	17:Q:237:ALA:HB1	1.10	1.08
1:A:409:ASP:O	1:A:410:LYS:HG2	1.54	1.08
1:A:921:PRO:HG3	8:H:19:ARG:HG2	1.36	1.08
2:B:820:PRO:HB3	16:P:81:LEU:CD1	1.82	1.08
15:O:433:VAL:HG11	17:Q:144:VAL:O	1.54	1.08
15:O:442:LEU:HD13	15:O:444:PRO:HD2	1.28	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:124:GLU:CD	17:Q:289:ASN:HD21	1.56	1.08
17:Q:280:SER:O	17:Q:301:SER:HB2	1.51	1.08
14:N:96:GLU:CD	14:N:105:SER:CB	2.19	1.08
15:O:357:LEU:CD2	15:O:358:SER:N	2.11	1.08
15:O:623:LEU:HD12	15:O:668:SER:HB2	1.34	1.08
15:O:702:LEU:CG	16:P:125:PHE:HZ	1.55	1.08
1:A:921:PRO:CG	8:H:19:ARG:HG3	1.83	1.08
15:O:315:PHE:O	15:O:317:ILE:CD1	2.01	1.08
15:O:422:ILE:HG21	15:O:440:HIS:CE1	1.88	1.08
15:O:577:LEU:HD21	16:P:499:LYS:HG2	1.30	1.08
15:O:722:TRP:NE1	16:P:262:LEU:CD2	2.17	1.08
16:P:208:PRO:HB2	16:P:212:VAL:HB	1.30	1.08
16:P:334:LEU:O	16:P:338:LEU:HG	1.51	1.08
16:P:403:THR:CG2	16:P:405:ASP:CB	2.30	1.08
2:B:341:SER:O	2:B:343:ASP:N	1.86	1.07
9:I:23:VAL:HG11	9:I:28:VAL:HG22	1.28	1.07
15:O:194:ARG:HA	15:O:197:ARG:NH2	0.76	1.07
15:O:210:THR:O	15:O:212:SER:N	1.87	1.07
15:O:215:ASN:N	15:O:236:ILE:HG13	1.67	1.07
15:O:299:ASP:HB2	17:Q:159:TYR:CB	1.84	1.07
15:O:375:PHE:HD1	15:O:380:MET:HA	0.98	1.07
15:O:14:UNK:CB	15:O:439:LYS:H	1.68	1.07
15:O:421:ILE:HG21	15:O:439:LYS:HG3	1.35	1.07
15:O:686:TYR:CB	15:O:692:THR:HG21	1.82	1.07
16:P:48:LEU:HD12	20:T:22:DG:C5'	1.83	1.07
2:B:120:LYS:HE2	17:Q:351:GLU:OE2	1.55	1.07
15:O:273:ARG:HG3	15:O:274:ILE:H	1.02	1.07
17:Q:182:LYS:CG	19:S:10:DG:OP1	2.03	1.07
1:A:39:ASP:N	1:A:43:HIS:O	1.87	1.07
1:A:911:CYS:O	1:A:912:VAL:O	1.72	1.07
2:B:95:LEU:HD22	2:B:440:PHE:CG	1.89	1.07
14:N:96:GLU:OE2	14:N:105:SER:HB2	1.55	1.07
15:O:214:LEU:O	15:O:236:ILE:CG1	2.03	1.07
15:O:275:GLU:O	15:O:284:VAL:HG13	1.52	1.07
17:Q:283:ARG:N	17:Q:302:ARG:CG	2.16	1.07
1:A:721:LYS:NZ	8:H:93:TYR:O	1.88	1.07
15:O:188:GLN:CB	15:O:199:GLY:CA	2.20	1.07
15:O:314:GLN:HB2	15:O:329:ILE:N	1.69	1.07
15:O:421:ILE:HD12	17:Q:138:PHE:CD2	1.69	1.07
15:O:686:TYR:HB3	15:O:692:THR:HG23	1.29	1.07
15:O:704:LEU:C	15:O:706:GLU:H	1.46	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:771:ILE:CG2	16:P:109:GLN:OE1	2.01	1.07
16:P:108:PHE:HE2	16:P:137:TRP:CZ3	1.70	1.07
16:P:257:VAL:HG13	16:P:263:PRO:HD2	1.12	1.07
17:Q:393:ILE:HD12	17:Q:397:ARG:O	1.53	1.07
3:C:118:SER:HA	3:C:125:LYS:HZ1	1.18	1.06
15:O:11:UNK:O	15:O:436:ILE:CG1	2.01	1.06
15:O:569:VAL:CG2	16:P:478:ARG:HD2	1.84	1.06
15:O:727:PRO:O	15:O:728:GLN:HB3	1.55	1.06
15:O:771:ILE:HG21	16:P:109:GLN:HE22	1.01	1.06
16:P:372:GLU:O	16:P:375:LEU:N	1.88	1.06
2:B:90:TYR:O	2:B:91:LEU:CD1	2.03	1.06
14:N:95:ILE:CD1	14:N:96:GLU:HG2	1.85	1.06
15:O:366:PHE:CE2	15:O:432:PRO:O	2.08	1.06
15:O:475:ARG:CD	16:P:367:PHE:CE2	2.37	1.06
15:O:583:GLU:CD	15:O:584:ARG:CG	2.23	1.06
15:O:599:LYS:HB3	16:P:272:GLN:NE2	1.69	1.06
15:O:740:ILE:HB	16:P:250:GLN:HB2	1.30	1.06
13:M:15:VAL:HG22	13:M:90:LEU:HD12	1.34	1.06
16:P:416:ILE:O	16:P:418:PRO:HD2	1.55	1.06
1:A:58:LEU:CB	16:P:62:LEU:O	2.04	1.06
1:A:59:ARG:NH2	16:P:7:GLY:HA2	1.71	1.06
16:P:106:LYS:HE2	16:P:203:TRP:HH2	0.93	1.06
16:P:257:VAL:HG12	16:P:262:LEU:HD12	1.08	1.06
17:Q:388:LYS:HD2	17:Q:393:ILE:HB	1.36	1.06
1:A:410:LYS:HA	1:A:413:LEU:HD11	1.31	1.06
2:B:251:HIS:CE1	2:B:261:ARG:HD2	1.90	1.06
2:B:416:LYS:HG3	2:B:461:MET:HE3	1.35	1.06
9:I:26:SER:O	9:I:37:TYR:CE2	2.08	1.06
15:O:422:ILE:HD11	15:O:442:LEU:HD23	1.37	1.06
15:O:436:ILE:HG21	17:Q:141:TRP:CD2	1.89	1.06
15:O:475:ARG:HH21	15:O:496:THR:HG23	0.95	1.06
15:O:620:ASP:OD1	15:O:674:GLU:HG2	1.56	1.06
17:Q:285:VAL:HG12	17:Q:286:GLN:H	1.14	1.06
1:A:42:GLY:HA3	16:P:61:ASN:HB2	1.37	1.05
1:A:721:LYS:O	1:A:723:TYR:N	1.90	1.05
1:A:921:PRO:CG	8:H:19:ARG:CG	2.33	1.05
15:O:273:ARG:HB2	15:O:287:SER:OG	1.56	1.05
15:O:583:GLU:HG2	15:O:584:ARG:H	0.98	1.05
15:O:653:SER:CA	15:O:748:GLU:O	2.04	1.05
15:O:657:SER:HB2	15:O:746:ARG:HD2	1.37	1.05
16:P:366:TYR:HE1	17:Q:215:THR:CA	1.68	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:358:PHE:CZ	17:Q:365:TRP:HZ3	1.73	1.05
17:Q:381:ARG:CA	17:Q:384:VAL:HG22	1.81	1.05
1:A:245:LYS:HB3	1:A:251:ILE:HD13	1.37	1.05
1:A:592:GLN:HG3	1:A:593:PRO:HD3	1.36	1.05
1:A:721:LYS:HB3	1:A:722:PRO:HD3	1.25	1.05
15:O:294:PHE:CZ	15:O:297:ILE:CB	2.40	1.05
15:O:433:VAL:CB	17:Q:144:VAL:HG13	1.83	1.05
15:O:604:ILE:HG12	15:O:732:LEU:CD2	1.87	1.05
15:O:615:ASN:OD1	15:O:617:HIS:NE2	1.89	1.05
15:O:722:TRP:HZ3	15:O:733:THR:HG23	1.18	1.05
15:O:740:ILE:CG2	16:P:250:GLN:HG3	1.85	1.05
16:P:101:LYS:CE	16:P:152:LEU:CD1	2.34	1.05
16:P:104:PHE:HD1	16:P:212:VAL:N	1.53	1.05
16:P:118:TRP:CZ3	16:P:189:LYS:HD3	1.92	1.05
16:P:208:PRO:CB	16:P:212:VAL:CB	2.18	1.05
1:A:542:SER:HB2	16:P:34:VAL:CG1	1.85	1.05
1:A:547:ILE:CD1	16:P:21:ARG:HE	1.59	1.05
2:B:120:LYS:CE	17:Q:351:GLU:OE2	2.03	1.05
2:B:814:ASN:OD1	2:B:821:ILE:HD13	1.50	1.05
7:G:74:ASN:HB3	7:G:77:VAL:HG22	1.38	1.05
15:O:178:VAL:HG22	15:O:360:TRP:HB3	1.38	1.05
15:O:202:ILE:H	15:O:202:ILE:HD12	1.21	1.05
15:O:205:TYR:CZ	15:O:229:ARG:NH1	2.24	1.05
15:O:440:HIS:ND1	15:O:481:PHE:CZ	2.25	1.05
16:P:184:TRP:CD1	16:P:190:MET:HB2	1.90	1.05
1:A:592:GLN:NE2	20:T:16:DT:O2	1.89	1.05
15:O:369:PHE:CE2	15:O:432:PRO:HG3	1.92	1.05
15:O:398:ALA:HA	17:Q:128:TRP:CH2	1.92	1.05
15:O:431:ASP:OD1	15:O:432:PRO:CD	2.05	1.05
16:P:96:ILE:HA	16:P:209:ASN:CG	1.76	1.05
16:P:263:PRO:HB2	16:P:266:PHE:HD2	1.21	1.05
16:P:496:GLU:OE2	16:P:499:LYS:CB	2.05	1.05
17:Q:363:GLU:O	17:Q:367:ILE:HG22	1.57	1.05
1:A:592:GLN:HB3	1:A:593:PRO:HD2	1.05	1.04
15:O:266:GLU:O	15:O:300:LEU:HD11	1.58	1.04
15:O:577:LEU:HD13	16:P:502:ILE:HG21	1.31	1.04
15:O:722:TRP:HZ3	15:O:733:THR:CG2	1.60	1.04
15:O:725:VAL:CG1	16:P:452:PHE:CB	2.35	1.04
15:O:740:ILE:CG2	16:P:250:GLN:CB	2.35	1.04
16:P:93:LYS:CD	16:P:207:LEU:HD22	1.87	1.04
16:P:103:LEU:HD23	16:P:206:GLN:NE2	1.69	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:122:GLU:OE1	16:P:123:MET:HG2	1.55	1.04
16:P:208:PRO:O	16:P:211:TYR:CD1	2.09	1.04
16:P:335:THR:HA	16:P:338:LEU:HD12	1.38	1.04
16:P:474:GLU:OE2	16:P:478:ARG:HD3	1.57	1.04
2:B:74:PHE:CD1	2:B:91:LEU:HB2	1.91	1.04
15:O:299:ASP:CB	17:Q:159:TYR:CB	2.36	1.04
16:P:403:THR:C	16:P:405:ASP:H	1.45	1.04
16:P:417:PHE:HE2	17:Q:270:PHE:CE2	1.52	1.04
15:O:768:TYR:CD2	16:P:145:ASN:OD1	2.10	1.04
16:P:35:MET:HE2	16:P:38:ASP:HA	1.32	1.04
16:P:101:LYS:HZ2	16:P:152:LEU:CD1	1.53	1.04
16:P:258:MET:N	16:P:262:LEU:HD13	1.73	1.04
16:P:287:TRP:HE1	16:P:300:ASN:ND2	1.56	1.04
16:P:343:THR:HB	16:P:347:SER:H	1.22	1.04
16:P:354:LYS:HZ2	16:P:362:THR:CG2	1.70	1.04
17:Q:247:ILE:CG2	17:Q:278:TYR:CE2	2.24	1.04
17:Q:380:SER:C	17:Q:384:VAL:CG1	2.24	1.04
15:O:184:SER:N	15:O:509:GLU:OE2	1.90	1.04
15:O:366:PHE:HE2	15:O:432:PRO:HA	0.91	1.04
15:O:395:GLN:HG2	15:O:397:LYS:N	1.73	1.04
16:P:101:LYS:CE	16:P:152:LEU:HD12	1.88	1.04
16:P:386:LEU:C	16:P:388:THR:HG22	1.78	1.04
16:P:421:ARG:O	16:P:422:GLU:C	1.94	1.04
16:P:494:SER:OG	16:P:497:GLN:HB3	1.42	1.04
17:Q:247:ILE:HD13	17:Q:248:LYS:H	0.87	1.04
17:Q:356:PRO:HD2	17:Q:357:PRO:CD	1.87	1.04
15:O:347:LEU:HD11	15:O:383:ILE:HD13	1.07	1.04
15:O:569:VAL:HG23	16:P:478:ARG:HD2	1.04	1.04
15:O:686:TYR:CB	15:O:692:THR:CG2	2.35	1.04
16:P:344:THR:CG2	16:P:436:LEU:C	2.26	1.04
2:B:1061:LYS:HB3	16:P:45:GLU:HB2	1.12	1.03
9:I:37:TYR:CG	9:I:38:PRO:HD2	1.92	1.03
13:M:26:PHE:HE1	13:M:98:SER:HB2	1.18	1.03
15:O:176:PRO:HD2	17:Q:196:GLU:O	0.87	1.03
15:O:270:GLN:OE1	15:O:291:PRO:HB3	1.56	1.03
15:O:740:ILE:HG22	16:P:250:GLN:CG	1.88	1.03
16:P:369:TRP:CH2	16:P:377:PHE:CG	2.45	1.03
2:B:77:LYS:CG	2:B:91:LEU:HA	1.86	1.03
2:B:415:GLU:HG2	2:B:472:SER:HB2	1.36	1.03
16:P:101:LYS:NZ	16:P:151:GLU:O	1.92	1.03
16:P:469:PRO:CB	16:P:470:PRO:CD	2.37	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:353:VAL:HA	17:Q:358:PHE:CD2	1.92	1.03
20:T:21:DT:H2"	20:T:22:DG:H5"	1.31	1.03
2:B:74:PHE:CE2	2:B:342:PRO:O	2.11	1.03
2:B:817:ARG:HD2	19:S:25:DT:O2	1.57	1.03
15:O:347:LEU:CD1	15:O:383:ILE:HD13	1.88	1.03
15:O:568:ILE:H	15:O:568:ILE:HD12	1.15	1.03
15:O:704:LEU:HD11	16:P:123:MET:CE	1.88	1.03
16:P:95:LEU:HG	16:P:99:GLU:CD	1.77	1.03
17:Q:212:HIS:O	17:Q:215:THR:HB	1.57	1.03
15:O:356:GLU:HB2	17:Q:24:ILE:CD1	1.88	1.03
16:P:104:PHE:CD1	16:P:211:TYR:CB	2.42	1.03
16:P:108:PHE:CE2	16:P:137:TRP:CH2	2.47	1.03
16:P:178:THR:OG1	16:P:490:ASP:CB	2.07	1.03
16:P:357:TYR:CB	17:Q:211:ARG:HD2	1.88	1.03
16:P:370:SER:OG	16:P:373:GLU:CD	1.97	1.03
16:P:403:THR:OG1	16:P:405:ASP:HB2	1.59	1.03
17:Q:29:ARG:HA	17:Q:32:ASP:OD2	1.56	1.03
17:Q:247:ILE:CG1	17:Q:248:LYS:H	1.71	1.03
2:B:341:SER:HB3	2:B:342:PRO:HD3	1.05	1.03
15:O:327:GLY:HA3	15:O:340:LYS:HD2	1.34	1.03
15:O:578:PHE:CE1	16:P:312:LEU:HD12	1.93	1.03
15:O:740:ILE:HG21	16:P:250:GLN:CB	1.89	1.03
15:O:768:TYR:CD2	16:P:145:ASN:CG	2.32	1.03
16:P:118:TRP:CH2	16:P:189:LYS:HG2	1.92	1.03
16:P:246:GLU:CG	16:P:286:LEU:CB	2.36	1.03
17:Q:278:TYR:HB3	17:Q:308:PHE:HZ	1.19	1.03
1:A:35:PRO:HG3	1:A:394:LEU:HD11	1.40	1.02
1:A:581:ILE:HD11	1:A:605:VAL:HG21	1.38	1.02
2:B:513:LYS:NZ	19:S:43:DC:OP1	1.92	1.02
2:B:581:PRO:HG3	2:B:637:TYR:HE1	1.23	1.02
15:O:315:PHE:C	15:O:317:ILE:HD12	1.79	1.02
15:O:375:PHE:CD1	15:O:380:MET:HB3	1.94	1.02
16:P:247:ILE:CG2	16:P:284:LEU:CD1	2.37	1.02
1:A:1018:TYR:CE2	20:T:14:DT:OP1	2.12	1.02
15:O:623:LEU:CD1	15:O:668:SER:C	2.27	1.02
16:P:387:PRO:O	16:P:389:GLN:N	1.91	1.02
1:A:42:GLY:HA3	16:P:61:ASN:CG	1.79	1.02
15:O:194:ARG:HA	15:O:197:ARG:CZ	1.89	1.02
15:O:308:ASN:HA	15:O:365:TRP:CD2	1.94	1.02
15:O:356:GLU:HB3	17:Q:24:ILE:HD12	1.41	1.02
15:O:578:PHE:CZ	16:P:312:LEU:CD1	2.41	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:592:LEU:CD1	16:P:512:ARG:HE	1.72	1.02
16:P:216:GLU:O	16:P:218:SER:N	1.92	1.02
17:Q:31:PHE:HA	17:Q:34:ILE:HG22	1.02	1.02
17:Q:247:ILE:CG1	17:Q:248:LYS:N	2.21	1.02
17:Q:283:ARG:N	17:Q:302:ARG:CB	2.21	1.02
7:G:169:VAL:HG22	7:G:216:HIS:O	1.55	1.02
15:O:12:UNK:HA	15:O:436:ILE:CD1	1.88	1.02
16:P:63:THR:HG23	16:P:64:THR:H	0.85	1.02
16:P:207:LEU:C	16:P:209:ASN:H	1.47	1.02
16:P:366:TYR:OH	17:Q:214:VAL:O	1.76	1.02
16:P:494:SER:OG	16:P:497:GLN:CG	2.07	1.02
17:Q:127:PHE:HE1	17:Q:131:TYR:CE2	1.40	1.02
17:Q:298:GLN:O	17:Q:299:THR:CG2	2.06	1.02
1:A:487:ASP:HB2	1:A:615:ARG:HD2	1.38	1.02
1:A:1288:ARG:N	1:A:1476:LEU:O	1.93	1.02
2:B:479:GLN:HA	19:S:39:DT:O4	1.60	1.02
15:O:214:LEU:C	15:O:236:ILE:CB	2.27	1.02
15:O:371:LYS:HD2	15:O:432:PRO:HG2	1.41	1.02
15:O:428:GLU:HG2	15:O:435:ARG:HB3	1.05	1.02
15:O:613:HIS:CD2	15:O:619:GLU:HG3	1.95	1.02
15:O:702:LEU:HD21	16:P:125:PHE:CZ	1.86	1.02
16:P:187:THR:OG1	16:P:189:LYS:CG	2.06	1.02
17:Q:264:SER:O	17:Q:265:SER:OG	1.75	1.02
17:Q:279:SER:O	17:Q:301:SER:OG	1.78	1.02
17:Q:356:PRO:HD2	17:Q:357:PRO:HD2	1.41	1.02
1:A:55:GLY:O	1:A:62:CYS:HA	1.59	1.01
15:O:353:ASP:CA	17:Q:28:SER:HA	1.89	1.01
15:O:422:ILE:HG13	15:O:440:HIS:NE2	1.75	1.01
15:O:431:ASP:OD1	15:O:432:PRO:HD3	1.57	1.01
15:O:475:ARG:HD3	16:P:367:PHE:CE2	1.94	1.01
16:P:95:LEU:HD21	16:P:99:GLU:CD	1.79	1.01
16:P:139:LYS:NZ	16:P:242:PHE:CG	2.27	1.01
16:P:155:GLN:HG2	16:P:232:LEU:HD21	1.39	1.01
16:P:378:LEU:CD1	17:Q:234:LYS:CB	2.37	1.01
17:Q:248:LYS:HD2	17:Q:298:GLN:NE2	1.73	1.01
17:Q:358:PHE:CG	17:Q:365:TRP:CZ3	2.47	1.01
15:O:421:ILE:CG2	15:O:439:LYS:CG	2.38	1.01
15:O:618:ASP:OD1	15:O:622:TYR:HE2	1.43	1.01
15:O:740:ILE:HG22	16:P:250:GLN:HG3	1.04	1.01
16:P:357:TYR:HB3	17:Q:211:ARG:HD2	1.40	1.01
5:E:128:PRO:HB2	5:E:129:PRO:CD	1.87	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:201:GLU:HG3	15:O:219:LEU:HB2	1.42	1.01
15:O:395:GLN:HG2	15:O:397:LYS:H	0.88	1.01
16:P:100:ALA:CB	16:P:211:TYR:CE1	2.44	1.01
2:B:924:LYS:HE3	18:R:6:A:OP2	1.61	1.01
13:M:43:LYS:O	13:M:49:ASP:HA	1.57	1.01
15:O:346:ASN:O	15:O:347:LEU:CG	2.09	1.01
15:O:352:PHE:HB3	15:O:354:PRO:HD2	1.40	1.01
15:O:472:ARG:NH2	17:Q:200:THR:H	1.57	1.01
15:O:577:LEU:CG	16:P:499:LYS:HG3	1.90	1.01
15:O:669:PHE:CD1	15:O:738:LYS:HE2	1.96	1.01
16:P:93:LYS:NZ	16:P:94:LYS:N	2.09	1.01
16:P:246:GLU:CG	16:P:286:LEU:HB2	1.91	1.01
16:P:378:LEU:CD1	17:Q:234:LYS:HB3	1.90	1.01
9:I:37:TYR:CD1	9:I:38:PRO:HD2	1.96	1.01
15:O:23:UNK:C	17:Q:314:TRP:CZ3	2.44	1.01
16:P:469:PRO:HB2	16:P:470:PRO:HD3	1.01	1.01
17:Q:5:PRO:HB2	17:Q:244:GLY:O	1.60	1.01
17:Q:21:TYR:CE2	17:Q:124:GLU:HG3	1.95	1.01
2:B:1179:PRO:O	2:B:1183:LYS:HB3	1.60	1.00
15:O:347:LEU:HD11	15:O:383:ILE:CD1	1.91	1.00
15:O:592:LEU:HD11	16:P:512:ARG:CZ	1.91	1.00
16:P:63:THR:CG2	16:P:64:THR:H	1.68	1.00
16:P:494:SER:C	16:P:496:GLU:H	1.65	1.00
17:Q:24:ILE:O	17:Q:28:SER:HB2	1.59	1.00
17:Q:133:LYS:HG3	17:Q:286:GLN:CG	1.90	1.00
1:A:42:GLY:CA	16:P:61:ASN:HB2	1.89	1.00
15:O:298:ASP:OD1	17:Q:159:TYR:N	1.94	1.00
15:O:656:HIS:CB	15:O:747:LEU:C	2.29	1.00
15:O:703:PHE:CZ	16:P:254:LEU:CD2	2.44	1.00
15:O:725:VAL:HG11	16:P:452:PHE:HB2	1.40	1.00
16:P:93:LYS:CD	16:P:207:LEU:CB	2.40	1.00
16:P:403:THR:HG23	16:P:405:ASP:N	1.76	1.00
2:B:513:LYS:NZ	19:S:42:DG:C4'	2.24	1.00
15:O:10:UNK:O	17:Q:141:TRP:HB3	1.61	1.00
15:O:382:GLU:OE1	15:O:433:VAL:HG12	1.59	1.00
16:P:85:GLN:HG2	16:P:89:HIS:CE1	1.96	1.00
16:P:235:GLY:HA2	16:P:289:ARG:HB3	1.39	1.00
17:Q:383:PHE:CE2	17:Q:388:LYS:HG2	1.94	1.00
16:P:27:ARG:NH2	16:P:69:SER:HB2	1.75	1.00
17:Q:127:PHE:CZ	17:Q:131:TYR:CD2	2.48	1.00
15:O:316:ALA:O	15:O:340:LYS:NZ	1.94	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:428:GLU:HA	15:O:435:ARG:HD3	1.43	1.00
16:P:118:TRP:CZ2	16:P:189:LYS:HG2	1.96	1.00
15:O:618:ASP:OD1	15:O:622:TYR:CE2	2.15	1.00
17:Q:303:THR:CG2	17:Q:304:HIS:H	1.75	1.00
1:A:42:GLY:CA	16:P:61:ASN:HB3	1.87	1.00
15:O:414:ILE:HD12	15:O:425:GLY:HA3	1.44	1.00
15:O:641:TRP:CD1	15:O:644:THR:O	2.12	1.00
1:A:542:SER:HB2	16:P:34:VAL:HG12	1.39	0.99
2:B:1105:ARG:HB3	2:B:1196:LEU:HD23	1.01	0.99
4:D:12:THR:HG23	4:D:17:ASN:HB2	1.40	0.99
16:P:63:THR:CG2	16:P:64:THR:N	2.19	0.99
16:P:96:ILE:HA	16:P:209:ASN:HD21	1.21	0.99
16:P:118:TRP:CZ3	16:P:189:LYS:CB	2.43	0.99
17:Q:207:ASN:HD21	19:S:13:DA:P	1.85	0.99
16:P:184:TRP:CZ2	16:P:192:TYR:HD2	1.79	0.99
15:O:353:ASP:O	17:Q:28:SER:CA	2.09	0.99
16:P:95:LEU:HD13	16:P:96:ILE:H	0.91	0.99
16:P:385:PHE:O	16:P:388:THR:CG2	2.09	0.99
15:O:569:VAL:HG23	16:P:478:ARG:CD	1.93	0.99
15:O:603:ARG:NH2	16:P:268:PHE:CD1	2.30	0.99
16:P:208:PRO:C	16:P:211:TYR:CZ	2.35	0.99
17:Q:143:THR:OG1	17:Q:144:VAL:N	1.93	0.99
2:B:811:LEU:HD12	2:B:899:GLN:HA	1.44	0.99
15:O:310:TRP:CG	15:O:368:HIS:CE1	2.51	0.99
15:O:373:LEU:HB3	15:O:375:PHE:CZ	1.97	0.99
16:P:104:PHE:HB2	16:P:211:TYR:CD2	1.98	0.99
3:C:32:ASN:OD1	3:C:35:LYS:N	1.95	0.99
16:P:222:PHE:C	16:P:223:ASN:OD1	2.00	0.99
15:O:421:ILE:HG21	15:O:439:LYS:CG	1.93	0.99
15:O:653:SER:HB3	15:O:656:HIS:ND1	1.77	0.99
16:P:235:GLY:HA2	16:P:289:ARG:CG	1.92	0.99
1:A:58:LEU:CD1	1:A:60:ASN:HD21	1.55	0.99
15:O:247:ILE:HG12	15:O:261:VAL:HG22	1.44	0.99
15:O:356:GLU:CB	17:Q:24:ILE:HD12	1.90	0.99
15:O:703:PHE:CZ	16:P:254:LEU:HD21	1.96	0.99
15:O:771:ILE:CG2	16:P:109:GLN:CD	2.30	0.99
16:P:403:THR:CB	16:P:405:ASP:HB2	1.90	0.99
15:O:194:ARG:CG	15:O:197:ARG:NH1	2.25	0.99
15:O:314:GLN:CB	15:O:329:ILE:N	2.23	0.99
15:O:499:GLU:HG3	15:O:500:ILE:H	1.24	0.99
15:O:583:GLU:CD	15:O:584:ARG:N	2.13	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:283:ARG:CA	17:Q:302:ARG:CB	2.41	0.99
16:P:116:ILE:HA	16:P:119:LEU:HD12	1.45	0.99
16:P:375:LEU:HD12	17:Q:231:LEU:HD21	1.44	0.99
16:P:417:PHE:CE2	17:Q:270:PHE:HE2	1.72	0.99
1:A:379:GLU:HA	16:P:56:ILE:HG22	1.45	0.98
15:O:12:UNK:CB	15:O:439:LYS:HZ2	1.69	0.98
15:O:715:TYR:CE1	15:O:734:LYS:HD2	1.98	0.98
15:O:366:PHE:CD2	15:O:432:PRO:HB3	1.97	0.98
16:P:419:LEU:CB	17:Q:237:ALA:HB1	1.92	0.98
15:O:669:PHE:C	15:O:671:SER:H	1.62	0.98
16:P:354:LYS:NZ	16:P:362:THR:CG2	2.23	0.98
16:P:403:THR:HG23	16:P:405:ASP:CB	1.92	0.98
17:Q:133:LYS:HG3	17:Q:286:GLN:HG2	1.45	0.98
2:B:1061:LYS:HD2	16:P:46:ASP:H	1.29	0.98
9:I:8:ILE:HG23	9:I:17:LEU:HD11	1.45	0.98
15:O:294:PHE:HZ	15:O:297:ILE:HG21	0.82	0.98
15:O:577:LEU:CD1	16:P:499:LYS:HG3	1.94	0.98
2:B:74:PHE:CD2	2:B:342:PRO:O	2.16	0.98
15:O:351:ILE:H	17:Q:157:MET:HE3	1.29	0.98
15:O:694:ILE:HG13	15:O:695:GLY:H	1.23	0.98
17:Q:283:ARG:HB2	17:Q:302:ARG:HB3	1.45	0.98
17:Q:354:LEU:HG	17:Q:359:MET:HA	1.46	0.98
17:Q:398:ASP:OD2	17:Q:401:ILE:HD12	1.63	0.98
1:A:42:GLY:O	16:P:61:ASN:HB3	1.64	0.98
2:B:495:ARG:HH11	2:B:723:LYS:HE2	1.29	0.98
15:O:357:LEU:CD2	15:O:358:SER:CB	2.41	0.98
15:O:366:PHE:CE2	15:O:432:PRO:C	2.36	0.98
15:O:653:SER:HB3	15:O:656:HIS:HB3	1.25	0.98
15:O:356:GLU:CB	17:Q:24:ILE:HD11	1.93	0.98
15:O:700:LEU:CD2	15:O:714:PHE:HB2	1.94	0.98
3:C:148:LYS:HE3	3:C:151:THR:CG2	1.87	0.98
15:O:390:GLN:HB2	17:Q:151:PRO:HG2	1.46	0.98
15:O:663:LEU:HD12	15:O:742:TRP:CH2	1.99	0.98
15:O:214:LEU:C	15:O:236:ILE:HB	1.81	0.98
15:O:314:GLN:HB2	15:O:329:ILE:H	0.84	0.98
15:O:592:LEU:CD1	16:P:512:ARG:CZ	2.42	0.98
16:P:157:HIS:CE1	16:P:158:MET:HG2	1.99	0.98
1:A:1320:GLN:HE22	1:A:1497:ILE:HG13	1.29	0.97
15:O:662:LEU:HD23	15:O:662:LEU:H	1.27	0.97
15:O:393:VAL:HG11	17:Q:144:VAL:HB	1.44	0.97
15:O:653:SER:C	15:O:654:LEU:HG	1.82	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:212:VAL:HG13	16:P:215:LEU:CD1	1.95	0.97
1:A:722:PRO:HB2	8:H:46:LEU:HD23	1.45	0.97
2:B:913:ILE:O	2:B:1041:ASN:ND2	1.96	0.97
15:O:10:UNK:CB	17:Q:142:ARG:CA	2.42	0.97
15:O:351:ILE:CB	17:Q:157:MET:HE3	1.91	0.97
1:A:42:GLY:C	16:P:61:ASN:HB3	1.84	0.97
15:O:428:GLU:CB	15:O:435:ARG:HG2	1.93	0.97
20:T:19:DC:H2"	20:T:20:DA:H5"	1.46	0.97
16:P:104:PHE:CD1	16:P:212:VAL:N	2.33	0.97
16:P:378:LEU:HD13	17:Q:234:LYS:CB	1.93	0.97
16:P:399:SER:N	16:P:410:ARG:NH1	2.11	0.97
15:O:10:UNK:O	17:Q:141:TRP:HB2	1.64	0.97
15:O:350:THR:O	15:O:352:PHE:CE1	2.17	0.97
15:O:660:LYS:HA	15:O:663:LEU:HB2	1.46	0.97
15:O:736:ILE:CD1	15:O:739:ASP:OD2	2.12	0.97
15:O:740:ILE:CG2	16:P:250:GLN:HB3	1.94	0.97
16:P:378:LEU:CD1	17:Q:234:LYS:C	2.32	0.97
7:G:167:THR:O	7:G:218:VAL:N	1.98	0.97
15:O:569:VAL:HG21	16:P:478:ARG:N	1.80	0.97
16:P:110:PHE:CD2	16:P:198:ILE:HG23	2.00	0.97
17:Q:281:LYS:HA	17:Q:301:SER:HB3	1.44	0.97
1:A:547:ILE:HD11	16:P:21:ARG:HH21	1.24	0.96
15:O:616:SER:CA	15:O:620:ASP:H	1.74	0.96
15:O:727:PRO:HD3	16:P:264:PRO:CG	1.94	0.96
16:P:378:LEU:CD2	17:Q:234:LYS:HB3	1.95	0.96
17:Q:283:ARG:CA	17:Q:302:ARG:HB3	1.94	0.96
16:P:209:ASN:OD1	16:P:210:TYR:CE2	2.18	0.96
16:P:343:THR:CB	16:P:347:SER:H	1.78	0.96
16:P:386:LEU:C	16:P:388:THR:CG2	2.31	0.96
1:A:59:ARG:HH22	16:P:7:GLY:HA2	1.29	0.96
15:O:214:LEU:HD13	15:O:263:ILE:HD13	1.48	0.96
15:O:352:PHE:CB	15:O:354:PRO:HD2	1.95	0.96
15:O:475:ARG:HD2	16:P:367:PHE:CE2	2.00	0.96
17:Q:282:SER:C	17:Q:302:ARG:HG3	1.85	0.96
1:A:1014:SER:OG	20:T:15:DT:O2	1.81	0.96
15:O:275:GLU:O	15:O:284:VAL:CG1	2.12	0.96
15:O:299:ASP:HB2	17:Q:159:TYR:CG	2.00	0.96
15:O:641:TRP:HH2	15:O:752:LEU:CD2	1.78	0.96
16:P:103:LEU:HD22	16:P:206:GLN:NE2	1.78	0.96
17:Q:246:GLN:C	17:Q:247:ILE:HD13	1.84	0.96
2:B:1107:CYS:HB2	2:B:1130:ARG:HE	1.30	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:421:ILE:CG2	15:O:439:LYS:HG3	1.94	0.96
15:O:722:TRP:NE1	16:P:262:LEU:HG	1.79	0.96
16:P:101:LYS:HZ2	16:P:152:LEU:CA	1.77	0.96
16:P:119:LEU:CD2	16:P:165:LEU:HD11	1.94	0.96
16:P:154:LEU:HD22	16:P:154:LEU:H	1.29	0.96
17:Q:283:ARG:CB	17:Q:302:ARG:HB3	1.96	0.96
15:O:311:ASP:O	15:O:315:PHE:CE2	2.19	0.96
16:P:219:ILE:HD13	17:Q:207:ASN:HA	1.45	0.96
16:P:497:GLN:HG2	16:P:498:LEU:N	1.81	0.96
16:P:93:LYS:HD3	16:P:207:LEU:HD22	1.43	0.96
1:A:58:LEU:CB	16:P:63:THR:HG22	1.95	0.96
1:A:1640:ARG:HG2	1:A:1645:LYS:HB2	1.47	0.96
15:O:577:LEU:HD11	16:P:499:LYS:HG3	1.43	0.96
16:P:194:GLN:HA	16:P:216:GLU:HG2	1.48	0.96
15:O:273:ARG:HH12	15:O:274:ILE:HG23	1.30	0.96
15:O:398:ALA:HA	17:Q:128:TRP:HH2	1.27	0.96
15:O:399:TRP:CD1	17:Q:134:PRO:HG3	2.01	0.96
16:P:95:LEU:HD23	16:P:99:GLU:CD	1.77	0.96
1:A:436:ALA:HB2	1:A:443:ALA:HB2	1.44	0.95
5:E:9:ILE:HG21	5:E:43:LYS:HG2	1.46	0.95
15:O:352:PHE:HB2	15:O:355:GLU:HB3	1.48	0.95
1:A:42:GLY:O	16:P:61:ASN:O	1.84	0.95
9:I:30:CYS:HB3	9:I:33:CYS:SG	2.01	0.95
15:O:194:ARG:HG2	15:O:197:ARG:HH12	1.01	0.95
15:O:194:ARG:CG	15:O:197:ARG:HH12	1.77	0.95
15:O:700:LEU:HD21	15:O:714:PHE:CB	1.96	0.95
15:O:704:LEU:C	15:O:706:GLU:N	2.16	0.95
15:O:768:TYR:CD1	16:P:145:ASN:OD1	2.19	0.95
1:A:920:PHE:O	1:A:922:CYS:N	1.99	0.95
6:F:83:PRO:HB2	6:F:152:ILE:HD12	1.48	0.95
15:O:440:HIS:CE1	15:O:481:PHE:CE1	2.55	0.95
15:O:757:GLN:O	15:O:760:ILE:CG2	2.13	0.95
16:P:106:LYS:CE	16:P:203:TRP:HH2	1.78	0.95
16:P:206:GLN:O	16:P:207:LEU:C	2.03	0.95
16:P:289:ARG:O	16:P:291:ASP:OD1	1.84	0.95
15:O:592:LEU:CD1	16:P:512:ARG:NE	2.27	0.95
16:P:19:LEU:HD21	16:P:21:ARG:HG2	1.48	0.95
17:Q:283:ARG:H	17:Q:302:ARG:HG3	1.30	0.95
1:A:39:ASP:O	1:A:43:HIS:N	1.99	0.95
15:O:616:SER:O	15:O:618:ASP:N	1.99	0.95
15:O:722:TRP:CZ3	15:O:733:THR:HG23	1.94	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:195:ALA:HB1	16:P:215:LEU:HG	1.48	0.95
13:M:12:ILE:HG23	13:M:88:ILE:HD11	1.46	0.95
16:P:184:TRP:HE1	16:P:190:MET:HB2	1.24	0.95
17:Q:200:THR:O	17:Q:203:SER:OG	1.84	0.95
1:A:416:ARG:HD2	1:A:419:ILE:HG12	1.49	0.95
16:P:414:TYR:CD1	17:Q:241:ARG:NH1	2.34	0.95
17:Q:143:THR:O	17:Q:144:VAL:HG12	1.65	0.95
5:E:3:GLN:O	5:E:7:ARG:CB	2.14	0.95
15:O:656:HIS:HB2	15:O:747:LEU:C	1.85	0.95
15:O:686:TYR:CG	15:O:692:THR:CG2	2.48	0.95
2:B:1061:LYS:HE3	16:P:45:GLU:HB2	1.49	0.95
15:O:310:TRP:CE3	15:O:370:GLN:NE2	2.35	0.95
16:P:246:GLU:HG2	16:P:286:LEU:CB	1.96	0.95
16:P:378:LEU:HD13	17:Q:234:LYS:HB2	1.47	0.95
16:P:403:THR:C	16:P:405:ASP:N	2.15	0.95
2:B:221:SER:HB3	19:S:41:DT:P	2.07	0.94
2:B:1105:ARG:CB	2:B:1196:LEU:HD23	1.82	0.94
15:O:428:GLU:HB2	15:O:435:ARG:HG2	1.49	0.94
17:Q:136:LYS:HD3	17:Q:304:HIS:HA	1.46	0.94
1:A:379:GLU:OE1	16:P:56:ILE:HB	1.64	0.94
1:A:1315:ASN:OD1	1:A:1319:ASN:ND2	2.00	0.94
2:B:1052:VAL:HG23	16:P:41:PHE:HD1	1.03	0.94
15:O:440:HIS:CE1	15:O:481:PHE:CZ	2.55	0.94
15:O:589:ILE:CG2	16:P:316:TRP:CE3	2.50	0.94
15:O:663:LEU:CD1	15:O:742:TRP:CH2	2.50	0.94
2:B:369:ASP:OD2	2:B:591:LYS:NZ	2.00	0.94
15:O:357:LEU:HD23	15:O:358:SER:HB3	1.48	0.94
16:P:371:GLU:O	16:P:374:THR:HB	1.68	0.94
17:Q:158:THR:HG23	17:Q:161:ASN:H	1.29	0.94
1:A:415:ASP:C	1:A:417:ARG:H	1.70	0.94
3:C:118:SER:HA	3:C:125:LYS:NZ	1.83	0.94
15:O:393:VAL:O	15:O:394:VAL:HG22	1.67	0.94
16:P:95:LEU:CG	16:P:99:GLU:CD	2.24	0.94
2:B:90:TYR:C	2:B:91:LEU:CD1	2.33	0.94
15:O:428:GLU:CG	15:O:435:ARG:CB	2.44	0.94
15:O:511:ILE:HG22	15:O:513:THR:H	1.32	0.94
15:O:616:SER:HA	15:O:620:ASP:N	1.81	0.94
16:P:183:LYS:CD	16:P:189:LYS:HZ2	1.80	0.94
16:P:494:SER:OG	16:P:497:GLN:CA	2.15	0.94
1:A:1617:THR:HG22	20:T:12:DG:H5"	1.47	0.94
16:P:108:PHE:CE2	16:P:137:TRP:CZ3	2.56	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:547:ILE:HD13	16:P:21:ARG:CZ	1.86	0.94
2:B:117:VAL:HG23	17:Q:276:GLN:HG2	1.45	0.94
13:M:88:ILE:HD12	13:M:90:LEU:HD21	1.50	0.94
15:O:471:MET:SD	15:O:542:ARG:NH1	2.41	0.94
17:Q:372:HIS:CE1	17:Q:407:HIS:CD2	2.56	0.94
1:A:545:SER:HB2	16:P:26:ARG:HH12	1.30	0.94
1:A:1272:VAL:O	9:I:49:THR:OG1	1.86	0.94
2:B:1130:ARG:NH1	2:B:1188:GLU:OE2	2.01	0.94
15:O:641:TRP:CH2	15:O:752:LEU:CD2	2.50	0.94
16:P:184:TRP:CD1	16:P:190:MET:CB	2.51	0.94
1:A:530:TRP:CG	1:A:531:PRO:CD	2.47	0.94
15:O:588:SER:HB3	16:P:512:ARG:HH12	1.30	0.94
16:P:337:SER:HA	16:P:448:LYS:HE2	1.47	0.94
16:P:417:PHE:N	16:P:418:PRO:CD	2.26	0.94
17:Q:352:TRP:CZ3	17:Q:357:PRO:HG2	2.02	0.94
1:A:964:LYS:NZ	1:A:969:PHE:O	1.99	0.93
2:B:239:VAL:HG12	2:B:245:SER:HB2	1.48	0.93
2:B:820:PRO:HG2	16:P:81:LEU:HD21	1.47	0.93
2:B:1052:VAL:CG2	16:P:41:PHE:CE1	2.50	0.93
16:P:403:THR:HG21	16:P:405:ASP:HB2	1.49	0.93
17:Q:291:ARG:O	17:Q:291:ARG:HG2	1.68	0.93
1:A:379:GLU:N	16:P:54:GLY:HA2	1.81	0.93
1:A:410:LYS:C	1:A:413:LEU:CD1	2.35	0.93
16:P:103:LEU:CD1	16:P:211:TYR:CE2	2.35	0.93
17:Q:281:LYS:O	17:Q:302:ARG:CD	2.14	0.93
17:Q:299:THR:HG23	17:Q:304:HIS:CE1	2.03	0.93
2:B:77:LYS:HA	2:B:92:GLY:H	1.22	0.93
13:M:10:ILE:HD12	14:N:72:VAL:HG23	1.49	0.93
15:O:380:MET:HB2	15:O:394:VAL:HG22	1.50	0.93
15:O:568:ILE:HD12	15:O:568:ILE:N	1.84	0.93
15:O:604:ILE:HG12	15:O:732:LEU:HD21	1.51	0.93
15:O:722:TRP:HZ2	16:P:262:LEU:HD11	1.34	0.93
16:P:95:LEU:HD12	16:P:100:ALA:CB	1.96	0.93
16:P:257:VAL:HG12	16:P:262:LEU:CD1	1.97	0.93
15:O:315:PHE:HB3	15:O:317:ILE:HD11	1.50	0.93
15:O:581:ALA:HB1	15:O:585:GLU:HB2	0.93	0.93
15:O:615:ASN:HB3	15:O:617:HIS:CD2	2.03	0.93
16:P:183:LYS:CD	16:P:189:LYS:NZ	2.32	0.93
1:A:530:TRP:CB	1:A:531:PRO:HD3	1.92	0.93
15:O:214:LEU:CD1	15:O:263:ILE:HD13	1.98	0.93
15:O:604:ILE:HA	15:O:732:LEU:HD22	1.48	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:104:PHE:HD1	16:P:212:VAL:H	1.15	0.93
16:P:386:LEU:CA	16:P:388:THR:HG22	1.97	0.93
2:B:820:PRO:HB3	16:P:81:LEU:HD13	1.48	0.93
15:O:176:PRO:HD2	17:Q:196:GLU:C	1.87	0.93
15:O:440:HIS:HD1	15:O:481:PHE:HZ	0.94	0.93
16:P:417:PHE:N	16:P:418:PRO:HD2	1.79	0.93
17:Q:207:ASN:ND2	19:S:13:DA:P	2.42	0.93
2:B:1103:VAL:HB	2:B:1110:ILE:HG22	1.49	0.93
15:O:421:ILE:CD1	17:Q:138:PHE:HE2	1.67	0.93
2:B:820:PRO:HB3	16:P:81:LEU:HD11	1.50	0.93
15:O:357:LEU:HD23	15:O:358:SER:CA	1.99	0.93
16:P:95:LEU:HD11	16:P:100:ALA:N	1.84	0.93
16:P:234:CYS:SG	16:P:286:LEU:CD2	2.56	0.93
17:Q:303:THR:HG22	17:Q:304:HIS:H	1.33	0.93
1:A:461:GLU:OE2	1:A:1619:CYS:N	2.01	0.93
1:A:721:LYS:HG2	8:H:94:ASP:C	1.88	0.93
15:O:23:UNK:O	17:Q:314:TRP:CE3	2.20	0.93
16:P:95:LEU:CD1	16:P:100:ALA:CB	2.47	0.93
16:P:198:ILE:HB	16:P:200:PRO:HG3	1.50	0.93
9:I:38:PRO:CB	9:I:41:GLN:O	2.16	0.92
15:O:433:VAL:CG1	17:Q:144:VAL:HG13	1.99	0.92
15:O:446:ASP:OD1	15:O:447:THR:N	2.01	0.92
7:G:37:CYS:O	7:G:126:GLN:N	2.00	0.92
15:O:18:UNK:C	17:Q:252:GLY:O	2.16	0.92
15:O:348:HIS:O	17:Q:153:ASN:OD1	1.86	0.92
15:O:472:ARG:NH1	17:Q:203:SER:CB	2.32	0.92
16:P:469:PRO:CB	16:P:470:PRO:HD3	1.95	0.92
3:C:151:THR:OG1	3:C:155:GLU:CD	2.06	0.92
15:O:374:VAL:O	15:O:375:PHE:CD1	2.22	0.92
15:O:583:GLU:OE1	15:O:584:ARG:N	2.01	0.92
15:O:665:ASN:HB3	15:O:668:SER:OG	1.68	0.92
16:P:183:LYS:HG3	16:P:189:LYS:HZ1	1.34	0.92
16:P:247:ILE:HG21	16:P:284:LEU:CD1	1.96	0.92
16:P:344:THR:OG1	16:P:438:PHE:N	1.93	0.92
1:A:530:TRP:CB	1:A:531:PRO:HD2	1.85	0.92
1:A:1447:GLN:NE2	1:A:1459:LYS:HA	1.85	0.92
15:O:352:PHE:HB3	15:O:354:PRO:CD	1.99	0.92
16:P:246:GLU:HG3	16:P:286:LEU:CB	1.99	0.92
17:Q:127:PHE:CZ	17:Q:131:TYR:CE2	2.57	0.92
17:Q:383:PHE:CZ	17:Q:388:LYS:HG2	2.04	0.92
1:A:371:SER:O	1:A:378:HIS:N	2.02	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:474:LYS:NZ	2:B:1172:GLU:OE1	2.02	0.92
1:A:530:TRP:HB3	1:A:531:PRO:HD2	0.92	0.92
2:B:77:LYS:HD2	2:B:88:SER:C	1.89	0.92
15:O:586:LYS:HZ1	16:P:322:ARG:NH2	1.63	0.92
15:O:726:SER:HB2	16:P:264:PRO:HG2	1.51	0.92
16:P:195:ALA:CB	16:P:215:LEU:HG	1.99	0.92
2:B:117:VAL:CG2	17:Q:276:GLN:CG	2.45	0.92
15:O:421:ILE:HA	15:O:441:ASP:HA	1.49	0.92
15:O:772:ILE:CD1	16:P:138:LEU:HD21	1.98	0.92
17:Q:282:SER:C	17:Q:302:ARG:CG	2.36	0.92
17:Q:381:ARG:C	17:Q:384:VAL:CG2	2.32	0.92
13:M:51:PHE:HD2	13:M:94:PRO:HG3	1.35	0.92
15:O:394:VAL:HA	17:Q:141:TRP:HD1	1.32	0.92
15:O:577:LEU:CD2	16:P:499:LYS:CG	2.39	0.92
15:O:653:SER:O	15:O:654:LEU:CD1	2.17	0.92
16:P:147:GLN:O	16:P:151:GLU:HB3	1.70	0.92
16:P:369:TRP:HH2	16:P:377:PHE:CE1	1.87	0.92
1:A:592:GLN:CB	1:A:593:PRO:HD3	1.92	0.92
13:M:43:LYS:C	13:M:49:ASP:OD1	2.07	0.92
15:O:596:ILE:HA	16:P:272:GLN:NE2	1.85	0.92
16:P:157:HIS:NE2	16:P:158:MET:HE3	1.84	0.92
16:P:204:ARG:CZ	19:S:15:DA:OP1	2.18	0.92
16:P:208:PRO:O	16:P:211:TYR:CD2	2.22	0.92
1:A:58:LEU:HB2	16:P:63:THR:CG2	1.99	0.92
2:B:96:SER:HB3	2:B:144:SER:HB2	1.51	0.92
2:B:613:VAL:HG12	2:B:660:LYS:HE3	1.50	0.92
15:O:394:VAL:HA	17:Q:141:TRP:CD1	2.05	0.92
16:P:287:TRP:CZ2	16:P:298:VAL:HG22	2.04	0.92
16:P:494:SER:OG	16:P:497:GLN:N	2.03	0.92
17:Q:154:LYS:C	17:Q:156:LYS:H	1.71	0.92
1:A:1229:ALA:HB3	1:A:1597:ALA:HB2	1.52	0.92
2:B:1139:LYS:O	2:B:1141:LEU:N	2.03	0.92
16:P:414:TYR:HB3	17:Q:241:ARG:CZ	1.99	0.92
16:P:417:PHE:C	16:P:419:LEU:H	1.72	0.92
17:Q:303:THR:CG2	17:Q:304:HIS:N	2.31	0.92
1:A:379:GLU:CA	16:P:56:ILE:HG22	2.00	0.91
2:B:77:LYS:HB3	2:B:88:SER:HA	1.49	0.91
2:B:463:TYR:CD1	20:T:25:DG:OP1	2.22	0.91
16:P:198:ILE:CB	16:P:200:PRO:CD	2.26	0.91
2:B:1137:ASP:O	2:B:1140:LYS:CG	2.17	0.91
14:N:111:VAL:O	14:N:120:LYS:N	2.04	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:686:TYR:CD2	15:O:692:THR:CG2	2.53	0.91
16:P:287:TRP:HD1	16:P:300:ASN:CB	1.73	0.91
17:Q:381:ARG:O	17:Q:384:VAL:CG2	2.18	0.91
1:A:721:LYS:CG	1:A:722:PRO:HD3	2.01	0.91
15:O:653:SER:HG	15:O:656:HIS:HB3	1.34	0.91
17:Q:383:PHE:CZ	17:Q:398:ASP:OD1	2.23	0.91
1:A:1298:ASP:HB3	1:A:1301:GLU:CG	2.00	0.91
9:I:37:TYR:HB2	9:I:38:PRO:HD2	0.93	0.91
16:P:100:ALA:HB1	16:P:211:TYR:HE1	1.36	0.91
16:P:235:GLY:N	16:P:289:ARG:CB	2.33	0.91
16:P:247:ILE:HG22	16:P:284:LEU:CD1	2.00	0.91
17:Q:24:ILE:O	17:Q:28:SER:CB	2.18	0.91
1:A:1039:ARG:HD2	6:F:139:PRO:HG2	1.50	0.91
2:B:77:LYS:HG2	2:B:91:LEU:HA	0.95	0.91
15:O:14:UNK:CB	15:O:439:LYS:N	2.34	0.91
15:O:589:ILE:CG2	16:P:316:TRP:HE3	1.82	0.91
1:A:908:VAL:O	1:A:912:VAL:HG22	1.69	0.91
13:M:54:HIS:NE2	13:M:61:GLU:OE2	2.02	0.91
13:M:57:ASN:HD21	13:M:60:LEU:HB2	1.32	0.91
15:O:216:ILE:N	15:O:234:THR:OG1	2.03	0.91
16:P:157:HIS:NE2	16:P:158:MET:CG	2.33	0.91
16:P:246:GLU:CG	16:P:286:LEU:HB3	2.01	0.91
2:B:843:ASP:O	12:L:42:ARG:NH2	2.04	0.91
15:O:273:ARG:HB3	15:O:287:SER:H	1.32	0.91
15:O:690:ASP:OD2	15:O:750:PRO:HB3	1.70	0.91
16:P:96:ILE:HA	16:P:209:ASN:HD22	1.28	0.91
17:Q:136:LYS:HD2	17:Q:304:HIS:HA	1.50	0.91
17:Q:247:ILE:O	17:Q:250:LEU:CB	2.18	0.91
2:B:77:LYS:HD3	2:B:89:GLY:O	1.70	0.91
13:M:42:LYS:HE2	13:M:49:ASP:OD2	1.70	0.91
15:O:217:ALA:HB3	15:O:229:ARG:NH1	1.85	0.91
15:O:475:ARG:HH21	15:O:496:THR:CG2	1.81	0.91
15:O:722:TRP:HE1	16:P:262:LEU:HG	1.34	0.91
15:O:740:ILE:CG2	16:P:250:GLN:CG	2.46	0.91
16:P:239:PHE:HE1	16:P:246:GLU:HG3	1.34	0.91
17:Q:208:TYR:CD1	17:Q:212:HIS:CE1	2.58	0.91
15:O:273:ARG:HG3	15:O:274:ILE:N	1.84	0.91
15:O:316:ALA:HB3	15:O:340:LYS:HD3	1.53	0.91
15:O:657:SER:CB	15:O:746:ARG:HD2	2.00	0.91
15:O:768:TYR:CG	16:P:145:ASN:ND2	2.37	0.91
16:P:108:PHE:CE1	16:P:156:LEU:HD13	2.06	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:184:TRP:CZ2	16:P:192:TYR:CD2	2.59	0.91
17:Q:274:MET:HA	17:Q:277:ILE:CG2	1.99	0.91
17:Q:278:TYR:HB3	17:Q:308:PHE:CZ	2.06	0.91
1:A:956:ARG:HH11	1:A:979:GLY:HA3	1.35	0.91
2:B:155:VAL:HG21	17:Q:354:LEU:HD21	1.53	0.91
2:B:513:LYS:HZ2	19:S:42:DG:H4'	1.17	0.91
13:M:11:GLU:HA	14:N:69:SER:HB2	1.52	0.91
14:N:95:ILE:HD12	14:N:96:GLU:CG	1.99	0.91
15:O:353:ASP:O	17:Q:28:SER:HA	1.68	0.91
15:O:698:LYS:HE2	16:P:126:PRO:CD	2.00	0.91
16:P:113:LYS:O	16:P:116:ILE:HG13	1.71	0.91
2:B:280:LEU:HD23	2:B:354:LEU:HD23	1.52	0.90
7:G:229:LEU:HD21	7:G:249:LEU:HD21	1.51	0.90
15:O:205:TYR:CE2	15:O:229:ARG:NH1	2.38	0.90
16:P:27:ARG:HG3	16:P:36:GLU:OE1	1.71	0.90
17:Q:208:TYR:HD1	17:Q:212:HIS:CE1	1.87	0.90
1:A:721:LYS:HB2	8:H:96:VAL:H	1.35	0.90
3:C:148:LYS:HE2	3:C:151:THR:HG22	0.92	0.90
14:N:78:THR:OG1	14:N:89:ILE:O	1.88	0.90
15:O:294:PHE:HE1	15:O:297:ILE:HG13	1.36	0.90
16:P:357:TYR:O	17:Q:211:ARG:NH1	2.04	0.90
2:B:77:LYS:HB3	2:B:88:SER:C	1.91	0.90
15:O:301:GLN:O	15:O:320:ILE:CG1	2.19	0.90
15:O:472:ARG:HH22	17:Q:200:THR:H	1.19	0.90
16:P:101:LYS:NZ	16:P:152:LEU:HA	1.86	0.90
16:P:199:LEU:H	16:P:200:PRO:HD2	0.83	0.90
16:P:235:GLY:N	16:P:289:ARG:HB2	1.85	0.90
16:P:418:PRO:C	16:P:419:LEU:HD23	1.92	0.90
17:Q:21:TYR:CE2	17:Q:124:GLU:CG	2.54	0.90
1:A:377:VAL:CG2	16:P:58:ARG:HG2	2.01	0.90
1:A:508:PRO:HB3	1:A:578:TYR:HE1	1.34	0.90
2:B:1060:VAL:CG1	16:P:43:ASP:O	2.19	0.90
15:O:315:PHE:HB3	15:O:317:ILE:CD1	2.02	0.90
15:O:578:PHE:HZ	16:P:312:LEU:CD1	1.83	0.90
17:Q:125:ARG:HH12	19:S:19:DG:H4'	0.76	0.90
15:O:311:ASP:O	15:O:315:PHE:HZ	1.37	0.90
15:O:324:TRP:NE1	15:O:348:HIS:HA	1.87	0.90
15:O:659:LEU:HB2	15:O:742:TRP:CZ2	2.05	0.90
16:P:287:TRP:CD2	16:P:298:VAL:CG1	2.54	0.90
17:Q:31:PHE:O	17:Q:34:ILE:HG22	1.71	0.90
17:Q:133:LYS:HA	17:Q:133:LYS:HE3	1.53	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:58:LEU:HB2	16:P:62:LEU:O	1.69	0.90
1:A:547:ILE:HD13	16:P:21:ARG:CD	2.01	0.90
2:B:146:ASN:ND2	2:B:149:GLU:OE1	2.02	0.90
3:C:236:LEU:HD11	3:C:290:LYS:HG3	1.54	0.90
15:O:324:TRP:HZ2	15:O:347:LEU:CD1	1.84	0.90
16:P:101:LYS:HZ2	16:P:152:LEU:CG	1.84	0.90
15:O:704:LEU:HD11	16:P:123:MET:HE1	1.52	0.90
16:P:492:ALA:O	16:P:493:ILE:HD12	1.71	0.90
1:A:594:THR:O	1:A:596:HIS:N	2.05	0.90
2:B:915:ASP:OD2	2:B:1035:ARG:NE	2.04	0.90
15:O:324:TRP:CD1	15:O:348:HIS:HA	2.07	0.90
1:A:1014:SER:CB	20:T:15:DT:H5"	2.01	0.90
3:C:128:ASP:OD1	3:C:174:ARG:NH2	2.04	0.90
15:O:581:ALA:CB	15:O:585:GLU:HB3	2.02	0.90
15:O:722:TRP:HE3	15:O:733:THR:HG21	1.06	0.90
16:P:17:SER:O	16:P:18:ARG:NH1	2.04	0.90
17:Q:247:ILE:HG21	17:Q:278:TYR:CD2	2.07	0.90
1:A:721:LYS:CB	1:A:722:PRO:HD3	1.85	0.90
2:B:1038:HIS:CE1	18:R:5:G:H5'	2.07	0.90
2:B:1179:PRO:O	2:B:1183:LYS:CB	2.19	0.90
15:O:292:LEU:HD12	15:O:292:LEU:H	1.36	0.90
16:P:95:LEU:CD1	16:P:96:ILE:N	2.25	0.90
16:P:187:THR:HG1	16:P:189:LYS:HG3	1.30	0.90
15:O:421:ILE:HD12	17:Q:138:PHE:HD2	1.13	0.89
15:O:508:ILE:HG12	15:O:539:VAL:HG12	1.53	0.89
16:P:205:ILE:C	16:P:207:LEU:H	1.76	0.89
8:H:14:GLU:HB2	8:H:27:GLU:HB2	1.54	0.89
15:O:294:PHE:HZ	15:O:297:ILE:CG2	1.73	0.89
15:O:308:ASN:O	15:O:315:PHE:CE2	2.25	0.89
16:P:287:TRP:HE1	16:P:300:ASN:HD22	1.15	0.89
2:B:820:PRO:CB	16:P:81:LEU:HD11	2.02	0.89
4:D:30:HIS:HB3	7:G:36:ASN:ND2	1.87	0.89
15:O:378:SER:HB3	15:O:397:LYS:HG2	1.54	0.89
15:O:653:SER:HB2	15:O:748:GLU:C	1.92	0.89
15:O:727:PRO:CD	16:P:264:PRO:HG2	2.01	0.89
16:P:122:GLU:OE1	16:P:123:MET:HE2	1.72	0.89
16:P:123:MET:O	16:P:124:ARG:HG2	1.72	0.89
2:B:328:GLN:HE22	13:M:108:LEU:HB2	1.34	0.89
15:O:422:ILE:HG21	15:O:440:HIS:HE1	1.35	0.89
16:P:9:ILE:CA	16:P:18:ARG:NH2	2.02	0.89
16:P:100:ALA:HB1	16:P:209:ASN:HB3	1.54	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:101:LYS:NZ	16:P:152:LEU:CA	2.34	0.89
16:P:136:ILE:HD12	16:P:168:ALA:HB2	1.54	0.89
17:Q:33:ARG:NH1	17:Q:36:LYS:HD3	1.87	0.89
17:Q:246:GLN:O	17:Q:247:ILE:CD1	2.18	0.89
15:O:623:LEU:HD12	15:O:668:SER:CB	2.01	0.89
1:A:42:GLY:O	16:P:61:ASN:C	2.11	0.89
15:O:308:ASN:HB3	15:O:365:TRP:CH2	2.08	0.89
15:O:389:TRP:CZ3	17:Q:148:ASN:N	2.30	0.89
1:A:36:THR:HB	1:A:45:VAL:HG21	1.53	0.89
1:A:422:ARG:O	1:A:426:ALA:HB3	1.73	0.89
1:A:1105:ARG:NH1	1:A:1141:GLN:OE1	2.05	0.89
7:G:237:HIS:N	7:G:244:SER:O	2.04	0.89
8:H:48:PRO:O	8:H:146:ARG:NH1	2.06	0.89
15:O:23:UNK:O	17:Q:314:TRP:HZ3	1.55	0.89
15:O:401:ASN:H	15:O:419:ARG:HG2	1.35	0.89
16:P:193:PHE:HB3	17:Q:208:TYR:HE2	1.37	0.89
16:P:198:ILE:HG22	16:P:200:PRO:HD3	1.54	0.89
17:Q:248:LYS:N	17:Q:298:GLN:NE2	2.19	0.89
2:B:513:LYS:HZ3	19:S:42:DG:H4'	1.10	0.89
2:B:906:ARG:NH1	3:C:93:GLN:HG3	1.87	0.89
2:B:1106:GLU:CA	2:B:1196:LEU:HD11	2.03	0.89
15:O:400:SER:HA	15:O:419:ARG:HD3	1.54	0.89
15:O:696:PHE:HB3	15:O:711:LEU:CD1	1.99	0.89
2:B:335:ARG:NH1	2:B:346:ASP:OD1	2.06	0.89
3:C:151:THR:CB	3:C:155:GLU:OE1	2.21	0.89
13:M:26:PHE:CE1	13:M:98:SER:HB2	2.07	0.89
14:N:26:PRO:HB2	14:N:29:PHE:CD2	2.08	0.89
16:P:199:LEU:O	16:P:199:LEU:CD1	2.21	0.89
17:Q:31:PHE:C	17:Q:34:ILE:HG22	1.92	0.89
17:Q:348:LYS:O	17:Q:352:TRP:NE1	2.06	0.89
15:O:273:ARG:CG	15:O:274:ILE:H	1.86	0.89
15:O:768:TYR:CE2	16:P:145:ASN:CG	2.47	0.89
16:P:103:LEU:HD12	16:P:104:PHE:N	1.88	0.89
17:Q:158:THR:HG22	17:Q:161:ASN:HB2	1.55	0.89
1:A:1655:ASP:OD2	7:G:106:LYS:NZ	2.05	0.88
2:B:574:SER:HB2	13:M:97:VAL:HG21	1.53	0.88
2:B:795:GLU:OE1	3:C:217:ALA:N	2.05	0.88
2:B:819:ASP:HB2	2:B:820:PRO:HD2	0.89	0.88
15:O:194:ARG:HA	15:O:197:ARG:HH21	1.34	0.88
15:O:390:GLN:HB2	17:Q:151:PRO:CG	2.01	0.88
16:P:417:PHE:CE2	17:Q:270:PHE:HD2	1.46	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:592:GLN:CG	1:A:593:PRO:CD	2.46	0.88
2:B:307:GLU:HB2	9:I:7:LEU:HD11	1.53	0.88
2:B:505:ARG:HG3	2:B:509:PHE:HD2	1.38	0.88
15:O:187:ILE:C	15:O:199:GLY:HA3	1.94	0.88
15:O:347:LEU:O	15:O:347:LEU:HD12	1.72	0.88
15:O:472:ARG:HH12	17:Q:203:SER:CB	1.86	0.88
17:Q:21:TYR:HE2	17:Q:124:GLU:CD	1.76	0.88
1:A:410:LYS:HA	1:A:413:LEU:CD1	2.03	0.88
1:A:543:LEU:HD23	16:P:26:ARG:NH2	1.88	0.88
2:B:95:LEU:HB2	2:B:440:PHE:CD2	2.08	0.88
2:B:463:TYR:CE1	20:T:25:DG:OP1	2.26	0.88
15:O:206:ALA:HA	15:O:214:LEU:HD23	1.53	0.88
15:O:326:ILE:O	15:O:342:GLN:HG3	1.73	0.88
15:O:722:TRP:HE1	16:P:262:LEU:HD23	1.38	0.88
15:O:756:ILE:O	15:O:760:ILE:HG22	1.73	0.88
16:P:115:GLN:HG3	16:P:190:MET:SD	2.14	0.88
16:P:246:GLU:HG3	16:P:286:LEU:HB3	1.53	0.88
15:O:438:TRP:HE1	15:O:489:PHE:HB3	1.39	0.88
15:O:698:LYS:HE2	16:P:126:PRO:CG	2.03	0.88
16:P:101:LYS:HZ2	16:P:152:LEU:CB	1.87	0.88
16:P:354:LYS:CG	16:P:362:THR:CG2	2.28	0.88
17:Q:348:LYS:O	17:Q:352:TRP:CD1	2.27	0.88
15:O:423:ILE:HD13	17:Q:141:TRP:CH2	2.09	0.88
15:O:599:LYS:HD3	16:P:272:GLN:NE2	1.88	0.88
15:O:690:ASP:OD2	15:O:750:PRO:HG3	1.73	0.88
15:O:740:ILE:CB	16:P:250:GLN:HB2	2.03	0.88
16:P:330:TRP:CH2	16:P:334:LEU:CD1	2.57	0.88
1:A:1200:MET:HG2	1:A:1573:TYR:CD2	2.09	0.88
1:A:1296:PHE:N	1:A:1468:LYS:O	2.07	0.88
1:A:1494:ARG:HH12	9:I:55:ALA:HB1	1.38	0.88
2:B:1105:ARG:CA	2:B:1196:LEU:CD2	2.43	0.88
14:N:70:LEU:HG	14:N:72:VAL:HG13	1.55	0.88
15:O:760:ILE:HG21	16:P:138:LEU:HD13	1.53	0.88
16:P:212:VAL:CG1	16:P:215:LEU:HD13	2.03	0.88
17:Q:207:ASN:OD1	19:S:13:DA:OP1	1.92	0.88
2:B:819:ASP:HB3	2:B:820:PRO:CD	2.02	0.88
2:B:1052:VAL:HG23	16:P:41:PHE:CE1	2.07	0.88
6:F:76:LYS:HE3	6:F:145:ASP:O	1.74	0.88
15:O:656:HIS:HB2	15:O:747:LEU:HB3	1.53	0.88
15:O:694:ILE:HG13	15:O:695:GLY:N	1.88	0.88
15:O:726:SER:HB2	15:O:727:PRO:CD	2.03	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:208:PRO:HB3	16:P:212:VAL:HB	0.94	0.88
16:P:421:ARG:C	16:P:422:GLU:OE1	2.12	0.88
1:A:409:ASP:O	1:A:410:LYS:CG	2.21	0.88
1:A:1040:ASP:OD1	1:A:1041:ALA:N	2.06	0.88
3:C:152:ASP:O	3:C:154:LYS:N	2.07	0.88
16:P:247:ILE:HG22	16:P:284:LEU:HD12	1.54	0.88
17:Q:200:THR:OG1	17:Q:203:SER:OG	1.90	0.88
9:I:37:TYR:HD1	9:I:38:PRO:HG2	1.35	0.88
15:O:203:ILE:O	15:O:216:ILE:HA	1.73	0.88
15:O:322:GLY:HA3	17:Q:157:MET:HG3	1.53	0.88
15:O:395:GLN:CG	15:O:397:LYS:H	1.82	0.88
15:O:768:TYR:CG	16:P:145:ASN:OD1	2.26	0.88
16:P:343:THR:O	16:P:345:SER:N	2.07	0.88
17:Q:354:LEU:HG	17:Q:359:MET:CA	2.03	0.88
15:O:181:ARG:O	15:O:182:LEU:HG	1.73	0.87
16:P:246:GLU:O	16:P:285:THR:HA	1.73	0.87
16:P:274:ILE:O	16:P:278:GLU:HB3	1.74	0.87
17:Q:125:ARG:NH1	19:S:19:DG:O3'	2.07	0.87
17:Q:248:LYS:HA	17:Q:248:LYS:CE	2.03	0.87
17:Q:393:ILE:O	17:Q:395:LEU:CG	2.22	0.87
2:B:1049:THR:HG21	16:P:24:ASP:O	1.75	0.87
15:O:324:TRP:HZ2	15:O:347:LEU:HD12	1.37	0.87
15:O:415:LEU:HD21	15:O:451:ILE:HD13	1.56	0.87
15:O:604:ILE:HA	15:O:732:LEU:CD2	2.04	0.87
15:O:722:TRP:CB	15:O:730:GLU:OE2	2.22	0.87
16:P:157:HIS:NE2	16:P:158:MET:CE	2.37	0.87
16:P:195:ALA:HB2	16:P:216:GLU:N	1.89	0.87
16:P:386:LEU:O	16:P:387:PRO:C	2.11	0.87
17:Q:144:VAL:O	17:Q:144:VAL:HG13	1.72	0.87
17:Q:358:PHE:CD2	17:Q:365:TRP:CH2	2.63	0.87
17:Q:393:ILE:HD13	17:Q:397:ARG:O	1.74	0.87
1:A:377:VAL:O	16:P:57:THR:N	2.06	0.87
15:O:373:LEU:HB3	15:O:375:PHE:CE2	2.10	0.87
15:O:422:ILE:HB	15:O:440:HIS:ND1	1.89	0.87
15:O:693:PHE:HD2	15:O:746:ARG:H	0.91	0.87
16:P:93:LYS:HD3	16:P:207:LEU:CD2	2.04	0.87
15:O:270:GLN:OE1	15:O:291:PRO:CB	2.22	0.87
15:O:353:ASP:HB2	17:Q:28:SER:C	1.94	0.87
17:Q:283:ARG:HA	17:Q:302:ARG:HB2	1.56	0.87
15:O:357:LEU:CD2	15:O:358:SER:HB3	2.05	0.87
15:O:421:ILE:CG2	15:O:439:LYS:HG2	2.03	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:583:GLU:OE2	15:O:584:ARG:CG	2.21	0.87
16:P:419:LEU:HD21	17:Q:241:ARG:HH21	0.73	0.87
17:Q:274:MET:CA	17:Q:277:ILE:HG22	2.04	0.87
1:A:341:SER:OG	1:A:1630:GLU:OE2	1.92	0.87
1:A:590:ASN:ND2	2:B:1075:GLU:OE2	2.08	0.87
15:O:725:VAL:HG12	16:P:452:PHE:HB2	1.54	0.87
16:P:184:TRP:CD1	16:P:190:MET:CG	2.57	0.87
16:P:247:ILE:HG21	16:P:302:ALA:HB2	1.55	0.87
16:P:287:TRP:HZ3	16:P:290:THR:HG22	0.71	0.87
16:P:485:SER:O	16:P:489:VAL:HG23	1.74	0.87
1:A:1183:GLU:OE1	6:F:88:TYR:OH	1.92	0.87
15:O:188:GLN:CA	15:O:199:GLY:HA3	2.05	0.87
15:O:262:GLY:O	15:O:263:ILE:HG13	1.74	0.87
15:O:294:PHE:CZ	15:O:297:ILE:HG13	2.10	0.87
15:O:442:LEU:CD1	15:O:444:PRO:HD2	2.04	0.87
15:O:569:VAL:CG2	16:P:478:ARG:HA	2.05	0.87
15:O:656:HIS:CG	15:O:747:LEU:H	1.92	0.87
16:P:93:LYS:HZ2	16:P:93:LYS:H	1.14	0.87
16:P:157:HIS:CD2	16:P:158:MET:HG2	2.08	0.87
16:P:287:TRP:HD1	16:P:300:ASN:HB3	1.38	0.87
17:Q:137:SER:O	17:Q:296:PRO:HG3	1.72	0.87
1:A:1533:GLU:OE1	5:E:14:ARG:NH1	2.07	0.87
15:O:613:HIS:NE2	15:O:619:GLU:HG3	1.89	0.87
15:O:705:HIS:O	15:O:706:GLU:HB2	1.75	0.87
15:O:769:GLN:O	15:O:772:ILE:HG23	1.75	0.87
16:P:119:LEU:HD11	16:P:165:LEU:HD12	0.90	0.87
16:P:287:TRP:CD2	16:P:298:VAL:HG11	2.09	0.87
17:Q:248:LYS:CD	17:Q:298:GLN:HE22	1.88	0.87
17:Q:388:LYS:NZ	17:Q:392:LEU:O	2.07	0.87
2:B:749:THR:OG1	2:B:763:ASP:OD1	1.92	0.87
6:F:147:SER:N	6:F:150:GLU:OE2	2.07	0.87
15:O:347:LEU:CD2	17:Q:151:PRO:O	2.21	0.87
16:P:184:TRP:HD1	16:P:190:MET:H	1.18	0.87
16:P:403:THR:CG2	16:P:405:ASP:CA	2.52	0.87
17:Q:247:ILE:HG12	17:Q:248:LYS:N	1.90	0.87
2:B:95:LEU:CD2	2:B:440:PHE:CD2	2.57	0.86
7:G:38:ILE:HG23	7:G:82:LEU:HD12	1.54	0.86
16:P:122:GLU:OE1	16:P:123:MET:CE	2.23	0.86
16:P:158:MET:O	16:P:192:TYR:HE1	1.57	0.86
16:P:200:PRO:HB3	16:P:203:TRP:HB2	1.57	0.86
16:P:422:GLU:OE1	16:P:422:GLU:N	2.08	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:547:ILE:CD1	16:P:21:ARG:NH2	2.30	0.86
1:A:1018:TYR:CD2	20:T:14:DT:OP1	2.27	0.86
2:B:513:LYS:CE	19:S:42:DG:H4'	2.04	0.86
2:B:529:CYS:HB2	2:B:698:SER:HB3	1.55	0.86
15:O:421:ILE:CG1	17:Q:138:PHE:HE2	1.88	0.86
16:P:146:ASP:C	16:P:148:PRO:HD2	1.93	0.86
16:P:195:ALA:HB3	16:P:216:GLU:HB2	1.56	0.86
17:Q:285:VAL:HG12	17:Q:286:GLN:N	1.89	0.86
2:B:724:GLN:HG3	18:R:5:G:OP1	1.75	0.86
7:G:137:ILE:HA	7:G:147:LEU:HD23	1.55	0.86
13:M:44:LYS:HA	13:M:49:ASP:OD1	1.74	0.86
15:O:706:GLU:CG	16:P:438:PHE:CB	2.50	0.86
16:P:116:ILE:O	16:P:119:LEU:HB2	1.75	0.86
1:A:458:GLN:OE1	1:A:458:GLN:N	2.08	0.86
15:O:588:SER:CB	16:P:512:ARG:NH1	2.37	0.86
16:P:4:PHE:O	16:P:5:ILE:HG22	1.75	0.86
16:P:165:LEU:HD13	16:P:190:MET:HE1	1.57	0.86
11:K:41:GLU:HB3	11:K:44:ARG:HH12	1.39	0.86
13:M:10:ILE:HG13	14:N:73:ASP:HB2	1.56	0.86
15:O:736:ILE:HG22	16:P:267:TYR:HE1	1.41	0.86
15:O:760:ILE:HG12	16:P:138:LEU:HB3	1.56	0.86
16:P:289:ARG:HG3	16:P:291:ASP:OD1	1.75	0.86
1:A:921:PRO:CG	8:H:19:ARG:HG2	2.02	0.86
2:B:113:VAL:CG2	2:B:114:SER:N	2.32	0.86
2:B:372:ARG:NH1	2:B:573:ALA:HB3	1.91	0.86
5:E:83:CYS:HB3	5:E:112:TYR:HA	1.57	0.86
7:G:138:PHE:N	7:G:146:GLY:O	2.08	0.86
17:Q:133:LYS:HG3	17:Q:286:GLN:CD	1.95	0.86
17:Q:303:THR:HG23	17:Q:304:HIS:N	1.91	0.86
9:I:37:TYR:HD1	9:I:38:PRO:CG	1.88	0.86
15:O:433:VAL:HG11	17:Q:144:VAL:HG13	1.58	0.86
15:O:669:PHE:C	15:O:671:SER:N	2.28	0.86
15:O:725:VAL:HG12	16:P:452:PHE:CB	2.03	0.86
16:P:330:TRP:CZ2	16:P:334:LEU:HD11	2.11	0.86
16:P:417:PHE:HZ	17:Q:270:PHE:CD2	1.44	0.86
16:P:494:SER:HB2	16:P:497:GLN:HB3	1.55	0.86
17:Q:201:SER:O	17:Q:204:GLU:OE1	1.92	0.86
15:O:363:ILE:HG22	15:O:374:VAL:HG13	1.58	0.86
15:O:431:ASP:OD1	15:O:432:PRO:HD2	1.76	0.86
15:O:771:ILE:HG22	16:P:109:GLN:NE2	1.87	0.86
16:P:193:PHE:HB3	17:Q:208:TYR:CE2	2.11	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:239:PHE:HE1	16:P:246:GLU:CG	1.89	0.86
15:O:405:TYR:CE2	15:O:414:ILE:HG23	2.11	0.86
15:O:568:ILE:H	15:O:568:ILE:CD1	1.88	0.86
15:O:600:GLU:OE1	16:P:269:TYR:CE1	2.28	0.86
15:O:619:GLU:HA	15:O:622:TYR:HD2	1.39	0.86
16:P:35:MET:CE	16:P:38:ASP:HA	2.05	0.86
17:Q:380:SER:O	17:Q:384:VAL:HG22	1.75	0.86
2:B:819:ASP:HB3	2:B:820:PRO:HD2	1.57	0.86
5:E:128:PRO:O	5:E:130:ALA:N	2.08	0.86
14:N:79:THR:HG22	14:N:88:LYS:HG2	1.58	0.86
16:P:18:ARG:O	16:P:30:GLN:HG3	1.76	0.86
16:P:209:ASN:CA	16:P:211:TYR:CE1	2.59	0.86
17:Q:158:THR:O	17:Q:159:TYR:C	2.11	0.86
1:A:530:TRP:CD2	1:A:531:PRO:HD3	2.10	0.85
1:A:1297:PHE:HE1	9:I:64:LYS:HD2	1.40	0.85
2:B:892:SER:HB2	2:B:895:PHE:HB2	1.58	0.85
16:P:494:SER:CB	16:P:497:GLN:OE1	2.24	0.85
17:Q:207:ASN:ND2	19:S:13:DA:OP1	2.08	0.85
17:Q:283:ARG:HA	17:Q:302:ARG:CB	2.06	0.85
1:A:1018:TYR:HE2	20:T:14:DT:OP1	1.58	0.85
9:I:30:CYS:HB2	9:I:33:CYS:SG	2.08	0.85
15:O:328:ARG:O	15:O:340:LYS:HA	1.76	0.85
16:P:10:CYS:SG	16:P:12:THR:OG1	2.32	0.85
16:P:123:MET:O	16:P:124:ARG:CG	2.24	0.85
1:A:399:LEU:HD21	1:A:422:ARG:HB2	1.56	0.85
1:A:475:ARG:NH2	2:B:1061:LYS:HG3	1.90	0.85
2:B:96:SER:HB3	2:B:144:SER:CB	2.06	0.85
15:O:500:ILE:HG23	15:O:501:PRO:HD2	1.57	0.85
15:O:604:ILE:HG12	15:O:732:LEU:HD23	1.57	0.85
15:O:641:TRP:HA	15:O:644:THR:OG1	1.74	0.85
15:O:775:TRP:NE1	16:P:113:LYS:HB2	1.91	0.85
16:P:48:LEU:CD1	20:T:22:DG:O5'	2.24	0.85
2:B:1107:CYS:HB2	2:B:1130:ARG:NE	1.91	0.85
15:O:310:TRP:CD2	15:O:370:GLN:NE2	2.44	0.85
16:P:183:LYS:CG	16:P:189:LYS:HZ1	1.89	0.85
16:P:263:PRO:CG	16:P:266:PHE:CG	2.58	0.85
2:B:122:TYR:HE2	2:B:175:MET:HE1	1.41	0.85
11:K:88:PHE:HB3	11:K:106:GLN:HG2	1.58	0.85
14:N:35:LEU:HD12	14:N:114:GLU:O	1.76	0.85
15:O:347:LEU:CD1	15:O:383:ILE:CD1	2.49	0.85
15:O:366:PHE:HD2	15:O:432:PRO:CB	1.88	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:199:LEU:HD12	16:P:199:LEU:C	1.95	0.85
17:Q:353:VAL:O	17:Q:353:VAL:CG2	2.19	0.85
1:A:721:LYS:C	1:A:723:TYR:H	1.79	0.85
2:B:249:VAL:HB	2:B:261:ARG:HB2	1.56	0.85
2:B:772:VAL:N	2:B:946:ASP:OD2	2.08	0.85
2:B:921:HIS:NE2	2:B:965:GLU:OE1	2.08	0.85
3:C:256:ILE:HD12	3:C:267:VAL:HG22	1.56	0.85
15:O:394:VAL:O	15:O:395:GLN:HB2	1.74	0.85
16:P:247:ILE:HG21	16:P:302:ALA:HB1	1.58	0.85
16:P:419:LEU:CD2	17:Q:241:ARG:NH2	2.30	0.85
3:C:255:VAL:HG22	3:C:272:LYS:HB2	1.59	0.85
8:H:37:LYS:HB2	8:H:126:GLU:HB3	1.58	0.85
15:O:214:LEU:O	15:O:236:ILE:HG12	1.75	0.85
15:O:273:ARG:NH1	15:O:274:ILE:CG2	2.38	0.85
15:O:310:TRP:CZ3	15:O:370:GLN:NE2	2.44	0.85
1:A:721:LYS:HG3	8:H:94:ASP:O	1.75	0.85
15:O:351:ILE:H	17:Q:157:MET:CE	1.89	0.85
16:P:95:LEU:HD13	16:P:96:ILE:CA	2.07	0.85
1:A:594:THR:HG21	2:B:1075:GLU:HG2	1.57	0.85
15:O:653:SER:HB2	15:O:747:LEU:O	1.77	0.85
15:O:653:SER:OG	15:O:748:GLU:CB	2.24	0.85
16:P:158:MET:HB2	16:P:192:TYR:OH	1.76	0.85
16:P:287:TRP:CE2	16:P:298:VAL:CG1	2.60	0.85
17:Q:282:SER:C	17:Q:302:ARG:HB2	1.97	0.85
1:A:381:SER:HB3	1:A:453:ILE:HB	1.59	0.85
2:B:929:ARG:NH1	11:K:97:SER:OG	2.10	0.85
4:D:47:LYS:NZ	7:G:84:TYR:OH	2.10	0.85
16:P:209:ASN:O	16:P:210:TYR:HB2	1.75	0.85
16:P:369:TRP:CZ3	17:Q:219:LEU:HD11	2.11	0.85
15:O:546:GLU:OE1	15:O:548:TYR:OH	1.93	0.84
17:Q:153:ASN:O	17:Q:156:LYS:HG3	1.76	0.84
5:E:37:LEU:HD11	5:E:41:ASP:HB3	1.57	0.84
15:O:314:GLN:NE2	15:O:330:PRO:O	2.09	0.84
16:P:101:LYS:HD3	16:P:152:LEU:HD12	1.54	0.84
16:P:169:SER:O	16:P:173:SER:N	2.09	0.84
16:P:494:SER:CB	16:P:497:GLN:CD	2.46	0.84
17:Q:360:GLU:O	17:Q:361:ASP:HB3	1.76	0.84
1:A:920:PHE:C	1:A:922:CYS:H	1.80	0.84
8:H:40:LEU:HD13	8:H:123:MET:HB2	1.59	0.84
9:I:37:TYR:CD1	9:I:38:PRO:CD	2.59	0.84
16:P:106:LYS:O	16:P:109:GLN:HB2	1.77	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:118:TRP:CE3	16:P:189:LYS:HB3	2.12	0.84
16:P:289:ARG:O	16:P:291:ASP:N	2.10	0.84
17:Q:352:TRP:HE3	17:Q:357:PRO:HG2	1.04	0.84
1:A:335:LEU:HA	1:A:338:VAL:HB	1.58	0.84
13:M:42:LYS:HG3	13:M:51:PHE:HE1	1.41	0.84
15:O:353:ASP:C	17:Q:28:SER:CA	2.44	0.84
15:O:357:LEU:CD2	15:O:358:SER:OG	2.26	0.84
15:O:380:MET:CB	15:O:394:VAL:CG2	2.35	0.84
17:Q:33:ARG:HH22	17:Q:36:LYS:HB2	1.39	0.84
1:A:410:LYS:CA	1:A:413:LEU:CD1	2.56	0.84
1:A:864:LEU:HD11	1:A:878:ARG:HD2	1.59	0.84
5:E:128:PRO:HB2	5:E:129:PRO:HD3	1.57	0.84
15:O:205:TYR:OH	15:O:229:ARG:NH1	2.10	0.84
15:O:310:TRP:CB	15:O:368:HIS:CE1	2.60	0.84
15:O:578:PHE:HZ	16:P:312:LEU:HD12	1.08	0.84
16:P:103:LEU:HD23	16:P:206:GLN:HE22	1.38	0.84
16:P:223:ASN:OD1	16:P:223:ASN:N	2.06	0.84
16:P:366:TYR:OH	17:Q:218:ASP:HB2	1.78	0.84
4:D:30:HIS:HB3	7:G:36:ASN:HD22	1.43	0.84
15:O:390:GLN:OE1	17:Q:151:PRO:CG	2.25	0.84
16:P:95:LEU:HD21	16:P:99:GLU:OE1	1.71	0.84
16:P:344:THR:CB	16:P:436:LEU:O	2.25	0.84
17:Q:158:THR:HG23	17:Q:161:ASN:N	1.93	0.84
1:A:469:LYS:HA	2:B:1070:ARG:HH22	1.42	0.84
3:C:152:ASP:O	3:C:153:PRO:C	2.14	0.84
8:H:112:ILE:HG21	8:H:131:ASN:HD22	1.41	0.84
15:O:581:ALA:HB3	15:O:585:GLU:CB	2.05	0.84
15:O:696:PHE:CB	15:O:711:LEU:CD1	2.32	0.84
2:B:1061:LYS:HB2	16:P:45:GLU:HB2	1.60	0.84
15:O:438:TRP:HH2	15:O:491:SER:HB2	1.41	0.84
16:P:287:TRP:NE1	16:P:300:ASN:CB	2.28	0.84
16:P:200:PRO:HA	16:P:203:TRP:CD1	2.13	0.84
16:P:247:ILE:CG2	16:P:284:LEU:HD11	2.04	0.84
16:P:403:THR:HG23	16:P:406:GLN:N	1.83	0.84
17:Q:298:GLN:C	17:Q:299:THR:HG22	1.98	0.84
2:B:614:GLU:OE2	2:B:616:LYS:HE3	1.78	0.84
3:C:244:ALA:HB1	3:C:265:ALA:HB2	1.60	0.84
15:O:294:PHE:CZ	15:O:297:ILE:HB	2.13	0.84
15:O:391:THR:HG21	17:Q:144:VAL:HG23	1.59	0.84
15:O:596:ILE:HG23	16:P:317:MET:HE1	1.57	0.84
16:P:95:LEU:CD2	16:P:99:GLU:OE2	2.12	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:246:GLU:HG2	16:P:286:LEU:H	1.43	0.84
1:A:475:ARG:CZ	2:B:1061:LYS:HG3	2.08	0.83
1:A:1299:ASN:HA	1:A:1302:TYR:CE2	2.13	0.83
2:B:77:LYS:O	2:B:88:SER:HA	1.77	0.83
2:B:311:ARG:HH12	9:I:18:GLU:HA	1.43	0.83
15:O:243:LYS:NZ	15:O:301:GLN:NE2	2.26	0.83
15:O:329:ILE:HD12	15:O:330:PRO:O	1.77	0.83
15:O:672:ILE:CD1	15:O:734:LYS:NZ	2.40	0.83
16:P:204:ARG:NH2	19:S:14:DA:O3'	2.07	0.83
1:A:215:GLU:OE2	1:A:218:LYS:NZ	2.10	0.83
1:A:676:ALA:HB2	1:A:821:ILE:HD11	1.60	0.83
3:C:151:THR:HG1	3:C:155:GLU:CD	1.81	0.83
3:C:197:ARG:N	3:C:200:GLN:OE1	2.11	0.83
16:P:257:VAL:HG12	16:P:262:LEU:HA	1.59	0.83
16:P:491:PHE:O	16:P:493:ILE:N	2.10	0.83
17:Q:352:TRP:O	17:Q:353:VAL:HG12	1.78	0.83
1:A:63:SER:O	2:B:1155:ASP:HB3	1.76	0.83
1:A:402:ASP:O	1:A:406:LEU:N	2.11	0.83
3:C:152:ASP:O	3:C:155:GLU:N	2.10	0.83
15:O:308:ASN:CB	15:O:365:TRP:CZ2	2.35	0.83
16:P:199:LEU:H	16:P:200:PRO:CD	1.69	0.83
16:P:257:VAL:CG1	16:P:263:PRO:CD	2.48	0.83
17:Q:212:HIS:O	17:Q:215:THR:CB	2.27	0.83
2:B:443:LYS:NZ	2:B:446:MET:SD	2.50	0.83
15:O:627:GLY:HA2	15:O:630:LEU:HD21	1.60	0.83
15:O:656:HIS:CG	15:O:747:LEU:C	2.52	0.83
16:P:147:GLN:NE2	16:P:147:GLN:H	1.75	0.83
16:P:343:THR:CB	16:P:347:SER:N	2.41	0.83
1:A:1127:TYR:HB3	1:A:1132:TYR:HD2	1.44	0.83
2:B:1057:MET:SD	16:P:41:PHE:HE1	2.00	0.83
3:C:230:LEU:HB2	3:C:297:HIS:HD2	1.43	0.83
7:G:218:VAL:HG22	7:G:224:PRO:HB3	1.59	0.83
9:I:13:CYS:SG	9:I:32:GLN:HB3	2.18	0.83
15:O:214:LEU:HG	15:O:242:ILE:HD13	1.60	0.83
15:O:366:PHE:CD2	15:O:432:PRO:CB	2.60	0.83
15:O:690:ASP:OD2	15:O:750:PRO:CB	2.26	0.83
16:P:221:PRO:HB3	16:P:226:LEU:CG	2.08	0.83
9:I:23:VAL:CG1	9:I:28:VAL:HG22	2.09	0.83
15:O:683:PHE:CE1	15:O:692:THR:OG1	2.29	0.83
15:O:693:PHE:CD2	15:O:746:ARG:N	2.45	0.83
15:O:703:PHE:CE1	16:P:254:LEU:HD23	2.14	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:9:ILE:HA	16:P:18:ARG:CZ	2.06	0.83
16:P:118:TRP:CZ2	16:P:189:LYS:CG	2.58	0.83
16:P:200:PRO:HA	16:P:203:TRP:HD1	1.43	0.83
16:P:221:PRO:CB	16:P:226:LEU:HD11	2.03	0.83
16:P:490:ASP:HB3	16:P:491:PHE:CE1	2.13	0.83
16:P:494:SER:CB	16:P:497:GLN:CB	2.46	0.83
2:B:817:ARG:HD2	19:S:25:DT:H1'	1.59	0.83
15:O:312:LEU:O	15:O:312:LEU:HD13	1.79	0.83
15:O:599:LYS:NZ	16:P:275:GLU:CD	2.32	0.83
15:O:715:TYR:CE1	15:O:734:LYS:CD	2.61	0.83
16:P:93:LYS:HG2	16:P:207:LEU:HB2	0.84	0.83
15:O:577:LEU:HD23	16:P:499:LYS:HZ3	1.40	0.83
16:P:343:THR:OG1	16:P:348:ILE:N	2.11	0.83
15:O:269:PHE:HE1	15:O:339:ARG:HD2	1.44	0.83
15:O:623:LEU:HD12	15:O:668:SER:C	1.98	0.83
16:P:372:GLU:O	16:P:373:GLU:C	2.16	0.83
17:Q:354:LEU:HA	17:Q:358:PHE:HB2	1.61	0.83
1:A:518:GLU:OE2	1:A:582:LYS:NZ	2.10	0.83
2:B:352:GLU:OE2	2:B:356:ARG:NE	2.09	0.83
13:M:12:ILE:HG13	14:N:69:SER:HA	1.60	0.83
15:O:302:VAL:HA	15:O:320:ILE:CG1	2.09	0.83
16:P:12:THR:OG1	16:P:33:HIS:NE2	2.11	0.83
16:P:122:GLU:CD	16:P:123:MET:HE2	1.99	0.83
16:P:186:CYS:SG	16:P:349:GLY:HA2	2.19	0.83
1:A:645:ALA:O	1:A:649:ASN:ND2	2.11	0.82
15:O:5:UNK:CB	15:O:24:UNK:CB	2.58	0.82
15:O:715:TYR:HE1	15:O:734:LYS:HD2	1.43	0.82
16:P:28:THR:HG22	16:P:29:CYS:N	1.94	0.82
16:P:93:LYS:HD3	16:P:207:LEU:CG	2.09	0.82
16:P:176:VAL:CG1	16:P:179:CYS:HB3	2.09	0.82
2:B:1106:GLU:HA	2:B:1196:LEU:CD1	2.05	0.82
15:O:10:UNK:CB	17:Q:142:ARG:N	2.41	0.82
15:O:694:ILE:CG1	15:O:695:GLY:H	1.92	0.82
16:P:93:LYS:HD3	16:P:207:LEU:HB2	1.61	0.82
16:P:172:LEU:HD23	16:P:172:LEU:O	1.78	0.82
16:P:378:LEU:HD11	17:Q:234:LYS:CB	2.08	0.82
17:Q:353:VAL:HA	17:Q:358:PHE:HE2	1.40	0.82
1:A:594:THR:HG21	2:B:1075:GLU:CG	2.09	0.82
2:B:1002:LYS:HG2	14:N:166:LEU:HD12	1.59	0.82
15:O:641:TRP:HH2	15:O:752:LEU:HD22	1.32	0.82
15:O:722:TRP:CZ3	15:O:733:THR:HG22	2.14	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:119:LEU:CD1	16:P:165:LEU:HD11	2.07	0.82
16:P:341:ARG:HB2	16:P:445:ARG:NH2	1.95	0.82
16:P:351:ASN:O	16:P:355:VAL:HG22	1.79	0.82
16:P:378:LEU:CD1	17:Q:235:ILE:N	2.43	0.82
17:Q:139:GLU:O	17:Q:141:TRP:N	2.12	0.82
17:Q:358:PHE:CG	17:Q:365:TRP:CH2	2.67	0.82
2:B:820:PRO:HG3	16:P:81:LEU:HD21	0.84	0.82
2:B:906:ARG:HH11	3:C:93:GLN:HG3	1.40	0.82
15:O:472:ARG:CZ	17:Q:200:THR:HG21	1.91	0.82
16:P:58:ARG:CZ	16:P:58:ARG:HB3	2.08	0.82
16:P:156:LEU:HG	16:P:157:HIS:H	0.72	0.82
16:P:216:GLU:O	16:P:216:GLU:CD	2.18	0.82
16:P:239:PHE:CE1	16:P:286:LEU:HD13	2.14	0.82
16:P:263:PRO:HG2	16:P:266:PHE:CD2	2.14	0.82
16:P:385:PHE:O	16:P:388:THR:CB	2.27	0.82
17:Q:264:SER:O	17:Q:265:SER:CB	2.27	0.82
1:A:530:TRP:HE1	1:A:607:VAL:HG11	1.41	0.82
4:D:27:LEU:CD1	7:G:23:GLN:HB3	2.10	0.82
14:N:111:VAL:HG23	14:N:120:LYS:HB2	1.60	0.82
15:O:600:GLU:OE2	16:P:268:PHE:HB2	1.78	0.82
15:O:611:ILE:CG2	15:O:731:LEU:HD23	2.09	0.82
15:O:727:PRO:CG	16:P:264:PRO:HB2	2.09	0.82
16:P:80:LEU:O	16:P:82:GLN:N	2.12	0.82
17:Q:280:SER:O	17:Q:301:SER:CB	2.25	0.82
1:A:40:ASN:HB3	1:A:43:HIS:CD2	2.15	0.82
4:D:27:LEU:HD11	7:G:23:GLN:HB3	1.61	0.82
6:F:128:LYS:HD3	6:F:149:GLU:HA	1.60	0.82
15:O:384:ASP:OD2	15:O:387:ASN:HB2	1.79	0.82
15:O:422:ILE:C	15:O:439:LYS:HB2	1.99	0.82
15:O:436:ILE:HB	17:Q:141:TRP:CZ3	2.15	0.82
15:O:658:LYS:HD2	15:O:660:LYS:HD3	1.62	0.82
16:P:152:LEU:N	16:P:152:LEU:HD22	1.94	0.82
17:Q:388:LYS:CD	17:Q:393:ILE:HB	2.09	0.82
1:A:52:LEU:O	1:A:63:SER:N	2.13	0.82
8:H:104:PHE:CE2	8:H:136:LYS:HB3	2.13	0.82
15:O:352:PHE:CA	15:O:354:PRO:HD2	2.10	0.82
16:P:60:LEU:C	16:P:60:LEU:HD12	1.99	0.82
16:P:166:TYR:HD2	16:P:167:LEU:HD12	1.42	0.82
1:A:1617:THR:HG22	20:T:12:DG:C5'	2.09	0.82
7:G:166:TRP:HZ3	7:G:225:ILE:HG21	1.44	0.82
15:O:380:MET:H	15:O:394:VAL:CG2	1.92	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:222:PHE:HB3	16:P:223:ASN:OD1	1.79	0.82
16:P:259:GLN:O	16:P:259:GLN:NE2	2.13	0.82
17:Q:266:SER:OG	17:Q:268:LEU:HB2	1.79	0.82
1:A:372:LYS:HA	1:A:377:VAL:HA	1.61	0.82
1:A:535:GLN:NE2	16:P:26:ARG:NH1	2.27	0.82
1:A:1439:MET:O	1:A:1444:ARG:NE	2.12	0.82
1:A:1640:ARG:HD3	1:A:1646:LEU:O	1.78	0.82
2:B:880:ALA:HB2	2:B:907:ILE:HG13	1.62	0.82
13:M:44:LYS:CA	13:M:49:ASP:OD1	2.27	0.82
15:O:22:UNK:O	17:Q:314:TRP:CD2	2.32	0.82
15:O:202:ILE:HD12	15:O:202:ILE:N	1.94	0.82
15:O:214:LEU:H	15:O:236:ILE:HB	1.43	0.82
16:P:274:ILE:HA	16:P:278:GLU:HB2	1.60	0.82
16:P:287:TRP:CD1	16:P:300:ASN:HB3	2.13	0.82
17:Q:149:LYS:HA	17:Q:149:LYS:HE3	1.59	0.82
1:A:81:LEU:HB2	1:A:358:ASP:O	1.80	0.82
1:A:114:GLU:OE2	1:A:117:ARG:NH2	2.12	0.82
1:A:1336:GLN:NE2	1:A:1480:THR:O	2.11	0.82
2:B:513:LYS:HZ3	19:S:42:DG:C4'	1.88	0.82
3:C:40:PHE:HD2	11:K:134:LYS:HD2	1.45	0.82
7:G:24:VAL:O	7:G:128:GLN:NE2	2.11	0.82
15:O:347:LEU:HB3	17:Q:152:ILE:HA	1.59	0.82
15:O:472:ARG:NH1	17:Q:200:THR:HG23	1.92	0.82
15:O:650:LEU:CD2	16:P:139:LYS:HD2	2.10	0.82
15:O:724:LEU:HD13	16:P:447:ALA:HB2	1.61	0.82
16:P:15:CYS:SG	21:P:601:ZN:ZN	1.67	0.82
16:P:319:SER:HA	16:P:472:ARG:HH22	1.43	0.82
1:A:579:ARG:NH2	1:A:585:ASP:OD1	2.14	0.81
1:A:1246:VAL:O	1:A:1517:ARG:NH2	2.12	0.81
16:P:247:ILE:CG2	16:P:284:LEU:HD12	2.08	0.81
16:P:338:LEU:O	16:P:339:THR:C	2.19	0.81
2:B:1069:ILE:HD12	2:B:1069:ILE:O	1.79	0.81
3:C:134:LEU:HD23	3:C:169:PHE:HA	1.62	0.81
9:I:37:TYR:HD1	9:I:38:PRO:CD	1.91	0.81
15:O:474:LYS:HA	15:O:505:PRO:HD3	1.62	0.81
15:O:659:LEU:HD22	15:O:659:LEU:N	1.95	0.81
16:P:341:ARG:CB	16:P:445:ARG:HH22	1.92	0.81
1:A:79:ILE:N	1:A:360:LEU:O	2.10	0.81
1:A:618:TYR:CE1	2:B:783:MET:HB2	2.15	0.81
1:A:721:LYS:HB3	1:A:722:PRO:HD2	0.83	0.81
15:O:223:ASN:O	15:O:224:THR:CG2	2.27	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:294:PHE:CE2	15:O:297:ILE:HB	2.15	0.81
15:O:352:PHE:HB2	15:O:355:GLU:HB2	1.60	0.81
15:O:393:VAL:CG1	17:Q:144:VAL:HB	2.10	0.81
15:O:683:PHE:HE1	15:O:692:THR:OG1	1.62	0.81
16:P:9:ILE:HG13	16:P:18:ARG:NH2	1.96	0.81
16:P:28:THR:HG22	16:P:29:CYS:H	1.45	0.81
16:P:93:LYS:CD	16:P:207:LEU:CD2	2.58	0.81
16:P:95:LEU:HD11	16:P:100:ALA:H	1.44	0.81
16:P:103:LEU:HD22	16:P:206:GLN:HE21	1.42	0.81
16:P:294:HIS:NE2	20:T:48:DA:N7	2.29	0.81
16:P:496:GLU:O	16:P:500:ASP:N	2.13	0.81
17:Q:136:LYS:HB2	17:Q:304:HIS:CD2	2.14	0.81
17:Q:282:SER:CA	17:Q:302:ARG:HG3	2.09	0.81
7:G:47:VAL:HG21	7:G:61:VAL:HG13	1.62	0.81
15:O:351:ILE:CG1	17:Q:157:MET:HE3	2.11	0.81
15:O:475:ARG:CD	16:P:367:PHE:HE2	1.94	0.81
15:O:740:ILE:HB	16:P:250:GLN:CB	2.11	0.81
16:P:108:PHE:CD1	16:P:156:LEU:HD13	2.15	0.81
16:P:93:LYS:HZ3	16:P:94:LYS:H	1.25	0.81
16:P:199:LEU:N	16:P:200:PRO:HD3	1.91	0.81
16:P:216:GLU:O	16:P:216:GLU:OE1	1.97	0.81
16:P:224:GLY:O	16:P:226:LEU:N	2.14	0.81
16:P:239:PHE:CE1	16:P:246:GLU:HG3	2.15	0.81
16:P:403:THR:HG23	16:P:405:ASP:HB2	1.57	0.81
2:B:249:VAL:HB	2:B:261:ARG:HD3	1.61	0.81
15:O:351:ILE:N	17:Q:157:MET:CE	2.44	0.81
15:O:375:PHE:CD1	15:O:381:ILE:N	2.48	0.81
15:O:722:TRP:NE1	16:P:262:LEU:HD21	1.95	0.81
16:P:28:THR:C	16:P:36:GLU:OE2	2.19	0.81
16:P:212:VAL:O	16:P:215:LEU:CG	2.28	0.81
16:P:487:LEU:HD11	16:P:498:LEU:HD11	1.60	0.81
1:A:436:ALA:CB	1:A:443:ALA:HB2	2.11	0.81
1:A:547:ILE:HG21	16:P:21:ARG:HD3	1.61	0.81
4:D:12:THR:HG23	4:D:17:ASN:CB	2.10	0.81
15:O:746:ARG:HH12	16:P:244:ASN:HB3	1.44	0.81
16:P:184:TRP:CD1	16:P:190:MET:HG2	2.15	0.81
16:P:258:MET:HG2	16:P:262:LEU:HD22	1.63	0.81
16:P:274:ILE:HA	16:P:278:GLU:CB	2.10	0.81
1:A:379:GLU:HA	16:P:56:ILE:CG2	2.10	0.81
1:A:1260:LYS:HE3	1:A:1262:LEU:HD21	1.62	0.81
10:J:9:SER:HB2	10:J:45:CYS:HB2	1.63	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:174:TRP:O	17:Q:198:LEU:HG	1.81	0.81
16:P:381:MET:SD	16:P:385:PHE:CE2	2.74	0.81
1:A:58:LEU:CD1	1:A:60:ASN:HD22	1.69	0.81
1:A:326:THR:HG23	1:A:329:ARG:HH22	1.46	0.81
1:A:826:PHE:HB3	2:B:777:SER:OG	1.79	0.81
2:B:297:VAL:HG21	14:N:101:GLN:NE2	1.96	0.81
15:O:214:LEU:N	15:O:236:ILE:HB	1.96	0.81
16:P:157:HIS:HD2	16:P:159:THR:HG22	1.45	0.81
16:P:208:PRO:C	16:P:211:TYR:CE2	2.54	0.81
1:A:1241:PRO:HA	1:A:1518:VAL:HG12	1.62	0.81
2:B:415:GLU:HG2	2:B:472:SER:CB	2.11	0.81
5:E:83:CYS:SG	5:E:88:VAL:HG22	2.21	0.81
13:M:54:HIS:HD2	13:M:63:GLU:HG2	1.44	0.81
15:O:214:LEU:CA	15:O:236:ILE:HB	2.11	0.81
15:O:650:LEU:CB	16:P:242:PHE:HE2	1.94	0.81
15:O:656:HIS:O	15:O:747:LEU:CB	2.27	0.81
16:P:93:LYS:HZ2	16:P:94:LYS:N	1.76	0.81
16:P:150:GLU:O	16:P:152:LEU:CD2	2.29	0.81
16:P:197:GLU:HG3	16:P:198:ILE:N	1.94	0.81
17:Q:266:SER:C	17:Q:268:LEU:N	2.31	0.81
1:A:332:GLN:HE22	1:A:350:VAL:H	1.29	0.80
1:A:379:GLU:N	16:P:56:ILE:HG22	1.95	0.80
2:B:1051:PRO:CB	16:P:40:GLU:OE1	2.27	0.80
7:G:162:ILE:CG1	7:G:249:LEU:HD12	2.08	0.80
15:O:24:UNK:HA	17:Q:314:TRP:HH2	1.05	0.80
16:P:157:HIS:CD2	16:P:159:THR:HG22	2.17	0.80
17:Q:356:PRO:CD	17:Q:357:PRO:HD2	2.03	0.80
1:A:560:GLN:O	1:A:575:LYS:NZ	2.14	0.80
1:A:704:ASP:OD2	1:A:706:HIS:NE2	2.14	0.80
2:B:1002:LYS:HG2	14:N:166:LEU:CD1	2.11	0.80
9:I:29:GLU:HA	9:I:35:ALA:O	1.82	0.80
15:O:422:ILE:CD1	15:O:442:LEU:HD23	2.11	0.80
15:O:456:VAL:HB	15:O:463:LEU:CD1	2.09	0.80
16:P:46:ASP:HB3	20:T:21:DT:C7	2.11	0.80
16:P:64:THR:O	16:P:66:ALA:N	2.14	0.80
16:P:208:PRO:O	16:P:211:TYR:CE1	2.33	0.80
16:P:354:LYS:HZ2	16:P:362:THR:HG22	0.75	0.80
16:P:417:PHE:CZ	17:Q:270:PHE:CG	2.68	0.80
1:A:413:LEU:HD12	1:A:413:LEU:H	1.47	0.80
1:A:591:ARG:HG2	1:A:591:ARG:HH11	1.46	0.80
2:B:480:GLN:O	2:B:484:TYR:OH	1.99	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:726:MET:HG3	2:B:742:TYR:HB3	1.61	0.80
3:C:128:ASP:HB2	3:C:175:GLN:OE1	1.80	0.80
17:Q:284:PHE:CE2	19:S:22:DG:H5'	2.16	0.80
2:B:581:PRO:HG3	2:B:637:TYR:CE1	2.12	0.80
3:C:227:TYR:HB3	3:C:300:PHE:CD1	2.17	0.80
7:G:135:GLY:O	7:G:228:LYS:HA	1.82	0.80
15:O:316:ALA:CB	15:O:340:LYS:HD3	2.11	0.80
16:P:344:THR:O	16:P:345:SER:CB	2.30	0.80
17:Q:352:TRP:HE3	17:Q:357:PRO:CG	1.91	0.80
2:B:455:GLU:OE1	2:B:455:GLU:N	2.15	0.80
2:B:1052:VAL:HG21	16:P:41:PHE:CE1	2.16	0.80
4:D:22:ILE:HG23	7:G:43:ILE:HD12	1.63	0.80
13:M:43:LYS:O	13:M:49:ASP:CA	2.29	0.80
16:P:110:PHE:HE2	16:P:198:ILE:HA	0.63	0.80
16:P:378:LEU:HD11	17:Q:234:LYS:CA	2.12	0.80
2:B:77:LYS:CD	2:B:89:GLY:O	2.29	0.80
2:B:1127:CYS:HB3	2:B:1163:GLN:HB2	1.64	0.80
5:E:97:VAL:HG13	5:E:132:ILE:HD11	1.62	0.80
15:O:202:ILE:H	15:O:202:ILE:CD1	1.94	0.80
15:O:656:HIS:CD2	15:O:747:LEU:CA	2.65	0.80
16:P:46:ASP:CB	20:T:21:DT:H71	2.11	0.80
16:P:219:ILE:HG13	16:P:220:SER:H	1.47	0.80
17:Q:294:VAL:N	17:Q:295:PRO:CD	2.44	0.80
1:A:1603:MET:HE1	1:A:1615:TYR:CG	2.17	0.80
2:B:1016:GLY:O	3:C:69:ARG:NH2	2.14	0.80
15:O:308:ASN:CA	15:O:365:TRP:CE2	2.65	0.80
15:O:354:PRO:O	15:O:356:GLU:N	2.13	0.80
15:O:581:ALA:HB1	15:O:585:GLU:HB3	1.58	0.80
15:O:599:LYS:HD3	16:P:272:GLN:HE21	1.47	0.80
16:P:414:TYR:HB3	17:Q:241:ARG:HH12	0.63	0.80
16:P:498:LEU:O	16:P:502:ILE:HG12	1.82	0.80
17:Q:8:LEU:O	17:Q:9:THR:C	2.20	0.80
1:A:58:LEU:O	1:A:59:ARG:HB2	1.81	0.80
1:A:385:LEU:HG	1:A:453:ILE:CD1	2.09	0.80
2:B:924:LYS:CE	18:R:6:A:OP2	2.29	0.80
15:O:428:GLU:HA	15:O:435:ARG:HD2	1.63	0.80
15:O:446:ASP:OD2	15:O:448:THR:HG22	1.81	0.80
16:P:105:LEU:CD2	16:P:109:GLN:NE2	2.45	0.80
16:P:469:PRO:HB2	16:P:470:PRO:HD2	1.62	0.80
2:B:117:VAL:HG23	17:Q:276:GLN:HG3	1.63	0.80
3:C:247:PHE:HB2	3:C:285:PHE:CE1	2.16	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:54:UNK:HA	15:O:554:ASN:OD1	1.82	0.80
15:O:180:ASN:O	15:O:244:SER:HA	1.82	0.80
15:O:353:ASP:CB	17:Q:28:SER:O	2.28	0.80
15:O:389:TRP:HE3	17:Q:148:ASN:OD1	1.64	0.80
15:O:577:LEU:HG	16:P:499:LYS:CE	2.08	0.80
15:O:648:SER:O	15:O:649:ILE:C	2.16	0.80
16:P:85:GLN:CG	16:P:89:HIS:CE1	2.65	0.80
16:P:123:MET:HB3	16:P:125:PHE:CE2	2.16	0.80
16:P:148:PRO:O	16:P:150:GLU:N	2.14	0.80
16:P:151:GLU:OE2	16:P:153:LYS:HB2	1.82	0.80
1:A:722:PRO:O	1:A:723:TYR:CB	2.29	0.80
1:A:1440:ASN:OD1	1:A:1443:GLN:N	2.12	0.80
2:B:495:ARG:NH1	2:B:723:LYS:HE2	1.95	0.80
2:B:1139:LYS:O	2:B:1142:LEU:N	2.14	0.80
2:B:1180:PHE:HD1	2:B:1181:VAL:HG13	1.47	0.80
9:I:8:ILE:CG2	9:I:17:LEU:HD11	2.12	0.80
12:L:31:CYS:HB3	12:L:34:CYS:SG	2.21	0.80
15:O:351:ILE:N	17:Q:157:MET:HE3	1.96	0.80
15:O:354:PRO:O	15:O:355:GLU:C	2.18	0.80
17:Q:33:ARG:C	17:Q:35:SER:H	1.82	0.80
2:B:1061:LYS:HB2	16:P:45:GLU:CB	2.11	0.79
3:C:239:ILE:HD12	3:C:244:ALA:HA	1.64	0.79
9:I:36:ILE:O	9:I:37:TYR:O	2.00	0.79
15:O:183:ASP:HB3	15:O:247:ILE:HD12	1.64	0.79
15:O:214:LEU:CA	15:O:236:ILE:HG21	2.11	0.79
15:O:366:PHE:CZ	15:O:432:PRO:O	2.35	0.79
15:O:428:GLU:HG3	15:O:435:ARG:HB3	1.64	0.79
15:O:627:GLY:HA2	15:O:630:LEU:CD2	2.12	0.79
15:O:736:ILE:HG22	15:O:736:ILE:O	1.82	0.79
16:P:17:SER:OG	16:P:30:GLN:OE1	1.98	0.79
16:P:176:VAL:HG13	16:P:179:CYS:HB3	1.63	0.79
16:P:357:TYR:O	17:Q:211:ARG:NH2	2.14	0.79
17:Q:4:VAL:HG21	17:Q:214:VAL:HG22	1.61	0.79
15:O:463:LEU:HD12	15:O:463:LEU:O	1.82	0.79
15:O:499:GLU:HG3	15:O:500:ILE:HD12	1.64	0.79
15:O:702:LEU:HD23	16:P:123:MET:SD	2.22	0.79
16:P:197:GLU:O	16:P:200:PRO:HD2	1.82	0.79
17:Q:142:ARG:HG3	17:Q:142:ARG:HH11	1.47	0.79
17:Q:158:THR:HG23	17:Q:161:ASN:HB2	1.63	0.79
1:A:19:LEU:HD12	2:B:1186:ASP:HA	1.63	0.79
1:A:489:ASN:ND2	2:B:781:TYR:OH	2.16	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:748:ASN:OD1	1:A:772:LYS:HA	1.83	0.79
1:A:1659:LYS:HE2	7:G:102:GLU:OE1	1.83	0.79
16:P:263:PRO:HB2	16:P:266:PHE:CD2	2.02	0.79
16:P:487:LEU:HD12	16:P:488:LEU:N	1.97	0.79
17:Q:358:PHE:CZ	17:Q:365:TRP:CZ3	2.65	0.79
1:A:42:GLY:O	16:P:61:ASN:CB	2.30	0.79
1:A:348:LYS:NZ	1:A:1629:ASN:OD1	2.14	0.79
8:H:112:ILE:HG21	8:H:131:ASN:ND2	1.98	0.79
15:O:715:TYR:CE1	15:O:734:LYS:CE	2.65	0.79
16:P:193:PHE:CB	17:Q:208:TYR:CE2	2.66	0.79
17:Q:282:SER:HA	17:Q:302:ARG:HG3	1.64	0.79
1:A:379:GLU:H	16:P:55:VAL:N	1.80	0.79
15:O:196:TYR:CD1	15:O:197:ARG:N	2.50	0.79
15:O:247:ILE:HG12	15:O:261:VAL:CG2	2.12	0.79
15:O:264:ILE:HG13	15:O:305:PHE:CE2	2.18	0.79
16:P:183:LYS:CG	16:P:189:LYS:NZ	2.45	0.79
2:B:221:SER:HB3	19:S:40:DT:O3'	1.80	0.79
2:B:820:PRO:CB	16:P:81:LEU:CD1	2.60	0.79
2:B:1057:MET:HE1	16:P:41:PHE:HZ	1.46	0.79
15:O:433:VAL:CG2	17:Q:144:VAL:CG1	2.60	0.79
15:O:623:LEU:HD22	15:O:674:GLU:OE1	1.83	0.79
16:P:195:ALA:HB2	16:P:216:GLU:H	1.45	0.79
16:P:203:TRP:O	16:P:208:PRO:HG3	1.82	0.79
16:P:258:MET:HA	16:P:262:LEU:HB2	1.62	0.79
16:P:367:PHE:CZ	17:Q:1:MET:SD	2.76	0.79
9:I:28:VAL:N	9:I:37:TYR:HB3	1.98	0.79
14:N:94:ASP:O	14:N:96:GLU:N	2.15	0.79
15:O:310:TRP:HA	15:O:368:HIS:NE2	1.98	0.79
15:O:384:ASP:HB3	15:O:389:TRP:CB	2.09	0.79
16:P:96:ILE:CA	16:P:209:ASN:HD21	1.80	0.79
16:P:184:TRP:HZ2	16:P:192:TYR:HD2	1.24	0.79
16:P:336:GLU:O	16:P:339:THR:CG2	2.28	0.79
17:Q:29:ARG:HA	17:Q:32:ASP:CG	2.02	0.79
3:C:151:THR:CB	3:C:155:GLU:CD	2.51	0.79
5:E:59:SER:OG	5:E:82:PHE:N	2.15	0.79
7:G:45:LEU:HD13	7:G:47:VAL:CG1	2.10	0.79
9:I:7:LEU:HB3	9:I:16:LEU:HD11	1.62	0.79
9:I:36:ILE:HB	9:I:39:LYS:CD	2.13	0.79
15:O:611:ILE:HG21	15:O:731:LEU:HD23	1.65	0.79
15:O:656:HIS:CB	15:O:747:LEU:CA	2.58	0.79
17:Q:29:ARG:C	17:Q:32:ASP:OD1	2.22	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:58:LEU:HD12	1:A:58:LEU:C	2.02	0.79
16:P:488:LEU:O	16:P:493:ILE:HG23	1.83	0.79
2:B:78:PRO:O	2:B:79:LEU:HG	1.82	0.79
15:O:273:ARG:HB3	15:O:287:SER:N	1.97	0.79
16:P:17:SER:OG	16:P:30:GLN:HB2	1.83	0.79
16:P:332:LEU:HD12	16:P:333:SER:N	1.98	0.79
17:Q:201:SER:O	17:Q:204:GLU:CD	2.20	0.79
17:Q:246:GLN:O	17:Q:247:ILE:C	2.16	0.79
1:A:104:PHE:HB2	1:A:238:MET:HG3	1.65	0.78
1:A:399:LEU:HD21	1:A:422:ARG:CB	2.13	0.78
1:A:757:ASN:OD1	1:A:767:ASN:N	2.15	0.78
3:C:58:ASN:HA	3:C:296:ASN:OD1	1.83	0.78
5:E:94:LYS:HB2	5:E:123:LEU:HD13	1.65	0.78
15:O:216:ILE:O	15:O:234:THR:OG1	2.00	0.78
15:O:375:PHE:CE1	15:O:381:ILE:O	2.36	0.78
16:P:93:LYS:HB2	16:P:207:LEU:HB3	1.65	0.78
16:P:417:PHE:HZ	17:Q:270:PHE:CG	2.01	0.78
16:P:499:LYS:HA	16:P:502:ILE:CG1	2.13	0.78
17:Q:266:SER:C	17:Q:268:LEU:H	1.84	0.78
17:Q:362:ALA:O	17:Q:364:VAL:N	2.16	0.78
1:A:689:ARG:NH2	11:K:87:GLU:O	2.16	0.78
1:A:1007:ILE:O	1:A:1011:VAL:HG22	1.84	0.78
13:M:43:LYS:CE	13:M:45:LYS:HD3	2.13	0.78
15:O:172:PHE:HE1	17:Q:186:LEU:HB2	1.48	0.78
15:O:324:TRP:O	15:O:325:SER:OG	2.02	0.78
15:O:577:LEU:CG	16:P:499:LYS:HE2	2.11	0.78
16:P:6:ARG:HB3	16:P:71:GLN:OE1	1.83	0.78
17:Q:266:SER:O	17:Q:269:ASP:OD1	2.00	0.78
1:A:729:LYS:CE	8:H:120:GLY:HA3	2.13	0.78
2:B:129:ARG:NH1	2:B:890:ASP:OD2	2.16	0.78
2:B:416:LYS:HG3	2:B:461:MET:CE	2.12	0.78
5:E:90:VAL:HG23	5:E:120:ALA:HA	1.65	0.78
6:F:93:ILE:HD11	6:F:134:ILE:HD11	1.66	0.78
7:G:235:ASN:O	7:G:246:ASP:N	2.14	0.78
8:H:101:ALA:HB2	8:H:116:TYR:HE1	1.49	0.78
10:J:7:CYS:HB3	10:J:10:CYS:SG	2.24	0.78
15:O:18:UNK:O	17:Q:252:GLY:O	2.01	0.78
16:P:46:ASP:HB3	20:T:21:DT:H71	1.65	0.78
17:Q:380:SER:O	17:Q:384:VAL:CB	2.30	0.78
2:B:117:VAL:HG23	17:Q:276:GLN:CB	2.13	0.78
15:O:725:VAL:O	16:P:453:PHE:HZ	1.66	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:93:LYS:HD2	16:P:207:LEU:HD22	1.64	0.78
1:A:35:PRO:HG3	1:A:394:LEU:CD1	2.12	0.78
2:B:77:LYS:HB3	2:B:88:SER:CA	2.12	0.78
2:B:684:ASN:N	14:N:150:TYR:OH	2.17	0.78
13:M:43:LYS:HB2	14:N:29:PHE:CD1	2.18	0.78
13:M:59:ARG:O	13:M:103:LYS:HG2	1.82	0.78
15:O:18:UNK:CB	17:Q:252:GLY:C	2.51	0.78
15:O:650:LEU:CB	16:P:242:PHE:CE2	2.65	0.78
16:P:28:THR:HG23	16:P:34:VAL:O	1.83	0.78
16:P:103:LEU:CD2	16:P:206:GLN:HE21	1.88	0.78
16:P:158:MET:HB2	16:P:192:TYR:CZ	2.19	0.78
16:P:403:THR:HG23	16:P:405:ASP:C	2.04	0.78
17:Q:349:ILE:HD11	17:Q:368:TYR:CE1	2.18	0.78
17:Q:410:TYR:CE2	17:Q:414:PHE:HZ	2.02	0.78
1:A:967:PRO:HG3	2:B:669:GLN:HE21	1.48	0.78
1:A:1628:ASP:HB2	1:A:1630:GLU:HG2	1.63	0.78
15:O:414:ILE:N	15:O:425:GLY:O	2.16	0.78
15:O:706:GLU:HG3	16:P:438:PHE:HB3	1.61	0.78
16:P:93:LYS:HD2	16:P:94:LYS:N	1.98	0.78
17:Q:124:GLU:CD	17:Q:289:ASN:ND2	2.37	0.78
1:A:58:LEU:HD22	16:P:62:LEU:C	2.03	0.78
1:A:58:LEU:HB3	16:P:62:LEU:O	1.82	0.78
1:A:326:THR:HA	1:A:329:ARG:HH12	1.47	0.78
1:A:379:GLU:N	16:P:54:GLY:CA	2.47	0.78
2:B:202:LEU:HD21	2:B:499:HIS:HB3	1.63	0.78
2:B:843:ASP:OD2	12:L:29:TYR:OH	2.00	0.78
15:O:603:ARG:HH22	16:P:268:PHE:HD1	1.32	0.78
15:O:657:SER:O	15:O:658:LYS:HG2	1.82	0.78
15:O:714:PHE:CE2	15:O:741:ILE:HD11	2.18	0.78
16:P:156:LEU:C	16:P:160:SER:HB2	2.04	0.78
16:P:257:VAL:CB	16:P:262:LEU:HD12	2.14	0.78
13:M:62:TYR:HB3	13:M:100:VAL:HG22	1.63	0.78
15:O:275:GLU:HB3	15:O:285:MET:HG3	1.63	0.78
16:P:167:LEU:HD11	16:P:230:ILE:HG23	1.66	0.78
1:A:55:GLY:HA2	1:A:62:CYS:SG	2.24	0.78
2:B:479:GLN:N	2:B:479:GLN:OE1	2.15	0.78
15:O:297:ILE:O	15:O:297:ILE:HG22	1.82	0.78
15:O:667:ASP:N	15:O:667:ASP:OD1	2.13	0.78
16:P:47:ASP:OD1	16:P:47:ASP:O	2.01	0.78
17:Q:143:THR:HG1	17:Q:144:VAL:H	1.28	0.78
17:Q:355:THR:O	17:Q:359:MET:SD	2.42	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:956:ARG:NH1	1:A:979:GLY:HA3	1.97	0.78
7:G:42:PRO:HA	7:G:121:ASN:HA	1.66	0.78
15:O:369:PHE:HD2	15:O:432:PRO:HG3	1.39	0.78
15:O:574:TRP:CZ3	16:P:484:ALA:HB1	2.18	0.78
16:P:399:SER:OG	16:P:410:ARG:NH2	2.16	0.78
17:Q:204:GLU:CD	17:Q:205:VAL:N	2.37	0.78
17:Q:380:SER:O	17:Q:384:VAL:CG2	2.31	0.78
13:M:43:LYS:HE2	13:M:45:LYS:CD	2.13	0.77
15:O:24:UNK:CB	17:Q:366:PHE:HE2	1.97	0.77
15:O:735:GLU:O	15:O:738:LYS:N	2.17	0.77
16:P:100:ALA:CB	16:P:211:TYR:CZ	2.64	0.77
16:P:155:GLN:HG2	16:P:232:LEU:CD2	2.11	0.77
16:P:403:THR:OG1	16:P:405:ASP:CB	2.31	0.77
16:P:474:GLU:O	16:P:478:ARG:HG2	1.84	0.77
1:A:385:LEU:CG	1:A:453:ILE:HD11	2.11	0.77
2:B:676:VAL:HB	2:B:680:GLU:OE2	1.84	0.77
7:G:26:ASN:OD1	7:G:126:GLN:HG3	1.84	0.77
8:H:104:PHE:HE2	8:H:136:LYS:HB3	1.48	0.77
16:P:263:PRO:C	16:P:265:GLU:H	1.87	0.77
17:Q:352:TRP:CE3	17:Q:357:PRO:CG	2.58	0.77
1:A:508:PRO:HB3	1:A:578:TYR:CE1	2.19	0.77
2:B:96:SER:CB	2:B:144:SER:HB2	2.14	0.77
15:O:422:ILE:CG1	15:O:440:HIS:NE2	2.47	0.77
15:O:694:ILE:HD11	15:O:698:LYS:CD	2.08	0.77
17:Q:269:ASP:OD1	17:Q:269:ASP:N	2.11	0.77
17:Q:285:VAL:CG1	17:Q:286:GLN:H	1.95	0.77
2:B:186:GLU:OE2	2:B:732:ALA:N	2.16	0.77
2:B:1061:LYS:HD2	16:P:46:ASP:N	1.98	0.77
4:D:99:LEU:HD12	4:D:100:PRO:HD2	1.66	0.77
10:J:41:LEU:HD22	10:J:46:CYS:HB3	1.64	0.77
13:M:10:ILE:HD12	14:N:72:VAL:CG2	2.13	0.77
15:O:440:HIS:CE1	15:O:481:PHE:HE1	2.01	0.77
16:P:344:THR:O	16:P:345:SER:HB2	1.84	0.77
16:P:419:LEU:HB3	17:Q:237:ALA:CB	2.04	0.77
17:Q:21:TYR:HD2	17:Q:124:GLU:HB2	1.47	0.77
1:A:1460:TYR:CE1	1:A:1462:PHE:HB2	2.20	0.77
2:B:820:PRO:HG2	16:P:81:LEU:CD2	2.08	0.77
3:C:229:LEU:HB2	3:C:293:ARG:HD3	1.64	0.77
8:H:101:ALA:HB2	8:H:116:TYR:CE1	2.18	0.77
15:O:436:ILE:CG1	17:Q:141:TRP:CZ3	2.68	0.77
15:O:620:ASP:OD1	15:O:674:GLU:CG	2.31	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:951:ALA:C	1:A:952:LEU:HD12	2.05	0.77
1:A:1162:ASN:OD1	1:A:1165:LYS:N	2.16	0.77
1:A:1494:ARG:NH1	9:I:55:ALA:HB1	1.99	0.77
7:G:134:GLU:HA	7:G:229:LEU:O	1.84	0.77
8:H:48:PRO:HG2	8:H:146:ARG:HH12	1.48	0.77
15:O:704:LEU:CD1	16:P:123:MET:HE1	2.15	0.77
15:O:722:TRP:NE1	16:P:262:LEU:CG	2.35	0.77
15:O:736:ILE:HG22	16:P:267:TYR:CE1	2.19	0.77
16:P:93:LYS:HZ2	16:P:93:LYS:N	1.83	0.77
17:Q:393:ILE:O	17:Q:395:LEU:HG	1.85	0.77
4:D:95:ASP:OD2	7:G:150:HIS:HA	1.84	0.77
7:G:82:LEU:N	7:G:123:TYR:O	2.18	0.77
9:I:36:ILE:O	9:I:39:LYS:HD3	1.84	0.77
15:O:17:UNK:C	15:O:19:UNK:H	1.97	0.77
15:O:218:VAL:O	15:O:229:ARG:HG2	1.84	0.77
15:O:702:LEU:HD23	16:P:125:PHE:CZ	2.15	0.77
2:B:74:PHE:CE1	2:B:91:LEU:HG	2.20	0.77
7:G:14:ALA:O	7:G:18:LYS:HB2	1.85	0.77
9:I:36:ILE:O	9:I:39:LYS:HE2	1.85	0.77
15:O:582:ASP:O	15:O:586:LYS:CB	2.32	0.77
15:O:653:SER:CB	15:O:747:LEU:O	2.32	0.77
15:O:703:PHE:CZ	16:P:254:LEU:HD23	2.19	0.77
16:P:221:PRO:CB	16:P:226:LEU:CG	2.62	0.77
17:Q:280:SER:O	17:Q:301:SER:O	2.02	0.77
1:A:1097:TYR:OH	1:A:1121:ASP:O	2.01	0.77
1:A:1297:PHE:CE1	9:I:64:LYS:HD2	2.20	0.77
2:B:341:SER:C	2:B:343:ASP:H	1.86	0.77
7:G:74:ASN:HB3	7:G:77:VAL:CG2	2.15	0.77
15:O:205:TYR:HD2	15:O:215:ASN:HB3	1.49	0.77
16:P:150:GLU:O	16:P:152:LEU:HD21	1.85	0.77
16:P:156:LEU:CG	16:P:157:HIS:N	2.25	0.77
17:Q:353:VAL:CA	17:Q:358:PHE:CD2	2.68	0.77
2:B:328:GLN:NE2	13:M:108:LEU:HB2	1.99	0.77
2:B:505:ARG:HG3	2:B:509:PHE:CD2	2.19	0.77
8:H:12:VAL:HB	8:H:53:ASP:H	1.49	0.77
15:O:714:PHE:HE2	15:O:741:ILE:CD1	1.97	0.77
16:P:122:GLU:OE2	16:P:123:MET:CE	2.33	0.77
16:P:248:SER:O	16:P:249:CYS:HB2	1.83	0.77
17:Q:355:THR:CB	17:Q:356:PRO:CD	2.37	0.77
17:Q:381:ARG:O	17:Q:384:VAL:HG22	1.79	0.77
1:A:1003:ARG:NH1	2:B:520:LEU:HD13	2.00	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1241:PRO:HB3	1:A:1516:LYS:HE3	1.67	0.76
5:E:94:LYS:HB2	5:E:123:LEU:CD1	2.15	0.76
14:N:52:GLN:HA	14:N:134:ASP:OD2	1.85	0.76
14:N:93:THR:HA	14:N:97:SER:OG	1.85	0.76
15:O:214:LEU:CA	15:O:236:ILE:CB	2.62	0.76
16:P:101:LYS:HZ3	16:P:152:LEU:CD1	1.65	0.76
2:B:1107:CYS:O	2:B:1130:ARG:NH2	2.18	0.76
3:C:151:THR:OG1	3:C:155:GLU:OE2	2.02	0.76
3:C:272:LYS:HA	14:N:175:TYR:CE2	2.19	0.76
8:H:56:THR:HG21	8:H:145:ARG:NH2	1.99	0.76
13:M:12:ILE:HG13	14:N:69:SER:CA	2.16	0.76
15:O:623:LEU:CD1	15:O:668:SER:O	2.33	0.76
16:P:93:LYS:HD3	16:P:207:LEU:CB	2.12	0.76
15:O:211:GLY:O	15:O:242:ILE:HD12	1.84	0.76
15:O:308:ASN:HB2	15:O:365:TRP:CE2	2.18	0.76
16:P:208:PRO:C	16:P:211:TYR:CE1	2.58	0.76
16:P:330:TRP:CE3	16:P:331:ILE:HD13	2.20	0.76
17:Q:398:ASP:OD2	17:Q:401:ILE:CD1	2.32	0.76
1:A:591:ARG:HG2	1:A:591:ARG:NH1	2.00	0.76
1:A:830:MET:HE2	2:B:963:PHE:HB3	1.68	0.76
15:O:14:UNK:CB	15:O:438:TRP:CB	2.54	0.76
15:O:442:LEU:HD13	15:O:444:PRO:CD	2.13	0.76
15:O:586:LYS:HZ1	16:P:322:ARG:HH22	1.16	0.76
16:P:474:GLU:OE2	16:P:478:ARG:CD	2.34	0.76
17:Q:356:PRO:CB	17:Q:357:PRO:HD3	2.14	0.76
17:Q:410:TYR:CE2	17:Q:414:PHE:CZ	2.74	0.76
1:A:401:ASP:O	1:A:405:LYS:CB	2.34	0.76
4:D:12:THR:HG22	4:D:18:THR:OG1	1.85	0.76
7:G:167:THR:HG22	7:G:218:VAL:HB	1.68	0.76
8:H:5:LEU:O	8:H:133:ASN:ND2	2.19	0.76
15:O:299:ASP:HB3	17:Q:159:TYR:CB	2.07	0.76
15:O:308:ASN:CA	15:O:365:TRP:CD2	2.67	0.76
15:O:315:PHE:C	15:O:317:ILE:CD1	2.51	0.76
15:O:623:LEU:CD1	15:O:668:SER:HB2	2.14	0.76
15:O:740:ILE:CB	16:P:250:GLN:CB	2.61	0.76
16:P:263:PRO:HG3	16:P:266:PHE:CG	2.18	0.76
1:A:174:SER:HB3	1:A:177:LEU:HD13	1.66	0.76
1:A:529:LYS:O	1:A:530:TRP:O	2.04	0.76
2:B:897:GLU:CB	2:B:899:GLN:HE21	1.99	0.76
7:G:69:LEU:HG	7:G:81:VAL:HG21	1.67	0.76
14:N:150:TYR:O	14:N:154:ARG:HG2	1.85	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:298:ASP:OD1	17:Q:158:THR:C	2.20	0.76
15:O:356:GLU:HG2	15:O:377:ARG:HH21	1.50	0.76
16:P:200:PRO:CB	16:P:203:TRP:HB2	2.15	0.76
16:P:219:ILE:CD1	17:Q:207:ASN:HA	2.11	0.76
16:P:319:SER:O	16:P:320:PHE:CG	2.39	0.76
16:P:369:TRP:CZ3	16:P:377:PHE:CG	2.73	0.76
2:B:74:PHE:C	2:B:76:GLY:H	1.89	0.76
2:B:77:LYS:HD2	2:B:89:GLY:CA	2.15	0.76
13:M:56:GLU:OE2	14:N:23:PHE:CE2	2.38	0.76
14:N:93:THR:O	14:N:94:ASP:O	2.03	0.76
15:O:214:LEU:HG	15:O:242:ILE:CD1	2.15	0.76
15:O:326:ILE:HB	15:O:344:ILE:CG2	2.12	0.76
15:O:353:ASP:O	17:Q:28:SER:CB	2.34	0.76
15:O:428:GLU:HA	15:O:435:ARG:CG	2.16	0.76
15:O:653:SER:CB	15:O:656:HIS:CG	2.55	0.76
15:O:768:TYR:CB	16:P:145:ASN:HD21	1.98	0.76
16:P:209:ASN:O	16:P:210:TYR:CB	2.33	0.76
16:P:341:ARG:HD3	16:P:341:ARG:N	2.01	0.76
1:A:1270:VAL:HG11	1:A:1489:VAL:HG11	1.67	0.76
2:B:110:ASN:HB3	2:B:118:GLU:HG2	1.67	0.76
15:O:380:MET:HE1	15:O:434:ARG:HH22	1.50	0.76
16:P:101:LYS:HD2	16:P:152:LEU:HD12	0.77	0.76
1:A:842:TRP:CD2	1:A:910:LYS:HE3	2.21	0.76
7:G:85:GLU:OE1	7:G:123:TYR:OH	2.00	0.76
15:O:357:LEU:HD23	15:O:358:SER:H	1.01	0.76
15:O:404:ASP:OD1	15:O:405:TYR:N	2.18	0.76
15:O:659:LEU:HB2	15:O:742:TRP:HZ2	1.51	0.76
17:Q:142:ARG:HG3	17:Q:142:ARG:NH1	2.00	0.76
1:A:38:LEU:HD21	1:A:42:GLY:HA2	1.68	0.76
2:B:1152:PHE:HB2	2:B:1163:GLN:NE2	2.01	0.76
3:C:175:GLN:HB2	3:C:179:PHE:CE2	2.21	0.76
13:M:11:GLU:HA	14:N:69:SER:CB	2.15	0.76
15:O:12:UNK:CA	15:O:436:ILE:HD11	2.11	0.76
15:O:301:GLN:O	15:O:320:ILE:HG13	1.85	0.76
15:O:436:ILE:HG22	17:Q:141:TRP:CH2	2.21	0.76
15:O:599:LYS:HZ3	16:P:275:GLU:CD	1.90	0.76
15:O:690:ASP:OD2	15:O:750:PRO:CG	2.33	0.76
16:P:155:GLN:HB3	16:P:229:LYS:HE2	1.67	0.76
16:P:247:ILE:HD12	16:P:286:LEU:HA	0.82	0.76
1:A:379:GLU:H	16:P:54:GLY:C	1.90	0.75
1:A:572:THR:HG22	7:G:53:TYR:HE2	1.51	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:998:HIS:CE1	2:B:712:SER:H	2.03	0.75
5:E:90:VAL:HA	5:E:120:ALA:HB2	1.67	0.75
15:O:357:LEU:HB2	17:Q:20:LYS:HE3	1.67	0.75
15:O:369:PHE:CG	15:O:432:PRO:HG3	2.16	0.75
15:O:382:GLU:OE1	17:Q:144:VAL:HG21	1.86	0.75
15:O:423:ILE:HG21	17:Q:141:TRP:HH2	0.62	0.75
15:O:702:LEU:CD2	16:P:125:PHE:HZ	1.74	0.75
15:O:768:TYR:O	15:O:772:ILE:HG22	1.86	0.75
16:P:209:ASN:OD1	16:P:210:TYR:HE2	1.69	0.75
17:Q:246:GLN:C	17:Q:247:ILE:CD1	2.53	0.75
1:A:1118:VAL:HG12	5:E:154:ILE:HD11	1.68	0.75
6:F:110:ASP:O	6:F:123:LYS:NZ	2.19	0.75
14:N:26:PRO:C	14:N:28:GLY:H	1.87	0.75
14:N:35:LEU:HG	14:N:115:SER:HA	1.65	0.75
15:O:217:ALA:HB3	15:O:229:ARG:CZ	2.16	0.75
15:O:569:VAL:HG22	16:P:478:ARG:HA	1.65	0.75
16:P:207:LEU:C	16:P:209:ASN:N	2.23	0.75
16:P:357:TYR:HB3	17:Q:211:ARG:NE	2.00	0.75
17:Q:282:SER:C	17:Q:302:ARG:CB	2.53	0.75
1:A:422:ARG:O	1:A:426:ALA:CB	2.33	0.75
2:B:563:SER:HA	13:M:73:SER:HB3	1.68	0.75
7:G:97:LYS:HG3	7:G:97:LYS:O	1.84	0.75
7:G:218:VAL:HG13	7:G:223:GLU:C	2.06	0.75
9:I:37:TYR:CB	9:I:38:PRO:CD	2.30	0.75
15:O:472:ARG:CD	17:Q:200:THR:CG2	2.65	0.75
15:O:771:ILE:HG22	16:P:109:GLN:HE22	1.40	0.75
16:P:184:TRP:NE1	16:P:190:MET:CB	2.40	0.75
16:P:354:LYS:HB3	16:P:362:THR:HB	1.67	0.75
1:A:241:PRO:HG3	1:A:253:GLU:OE2	1.86	0.75
1:A:879:LEU:HA	1:A:882:ILE:HD12	1.66	0.75
12:L:48:CYS:CB	12:L:51:CYS:SG	2.75	0.75
14:N:80:MET:CE	14:N:82:ILE:HD11	2.15	0.75
15:O:409:ASP:O	15:O:411:LYS:N	2.20	0.75
16:P:116:ILE:HA	16:P:119:LEU:CD1	2.15	0.75
1:A:245:LYS:HB3	1:A:251:ILE:CD1	2.17	0.75
2:B:479:GLN:CA	19:S:39:DT:O4	2.32	0.75
4:D:85:SER:HB3	7:G:71:MET:HG3	1.67	0.75
8:H:103:LYS:HE3	8:H:115:TYR:CE1	2.22	0.75
13:M:75:GLN:HG2	14:N:58:PHE:O	1.86	0.75
15:O:220:THR:OG1	15:O:228:ASN:O	2.03	0.75
15:O:380:MET:HG3	15:O:394:VAL:HG21	1.65	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:578:PHE:CE1	16:P:312:LEU:HA	2.22	0.75
15:O:656:HIS:CD2	15:O:747:LEU:O	2.39	0.75
16:P:108:PHE:CD2	16:P:137:TRP:CH2	2.75	0.75
16:P:122:GLU:OE2	16:P:123:MET:HE2	1.87	0.75
16:P:157:HIS:CG	16:P:158:MET:H	2.05	0.75
16:P:209:ASN:OD1	16:P:210:TYR:CD2	2.39	0.75
17:Q:21:TYR:CE2	17:Q:124:GLU:CD	2.59	0.75
17:Q:213:ILE:HA	17:Q:216:LEU:CD1	2.09	0.75
1:A:326:THR:HA	1:A:329:ARG:NH1	2.02	0.75
1:A:729:LYS:HE2	8:H:120:GLY:HA3	1.69	0.75
1:A:1112:PRO:HD2	1:A:1115:LYS:HD2	1.69	0.75
2:B:239:VAL:HG12	2:B:245:SER:CB	2.16	0.75
7:G:168:PHE:HD1	7:G:217:TRP:CD1	2.03	0.75
15:O:422:ILE:CG2	15:O:440:HIS:HE1	1.90	0.75
15:O:669:PHE:O	15:O:669:PHE:CD1	2.40	0.75
17:Q:281:LYS:O	17:Q:302:ARG:HD3	1.85	0.75
1:A:591:ARG:HD2	1:A:626:ALA:HB2	1.69	0.75
2:B:974:LEU:O	10:J:47:ARG:NH2	2.20	0.75
15:O:652:GLY:O	15:O:655:SER:HA	1.86	0.75
17:Q:283:ARG:N	17:Q:302:ARG:HB2	2.00	0.75
5:E:46:TYR:O	5:E:53:PRO:HA	1.87	0.75
7:G:169:VAL:HG22	7:G:218:VAL:HG23	1.67	0.75
13:M:57:ASN:OD1	13:M:60:LEU:N	2.17	0.75
15:O:328:ARG:N	15:O:340:LYS:HB2	2.01	0.75
15:O:351:ILE:HB	17:Q:157:MET:HE1	0.76	0.75
15:O:657:SER:HB2	15:O:746:ARG:HA	1.68	0.75
15:O:722:TRP:CZ2	16:P:262:LEU:HD11	2.22	0.75
16:P:287:TRP:CE3	16:P:298:VAL:HG21	2.22	0.75
16:P:294:HIS:NE2	20:T:48:DA:C5	2.42	0.75
1:A:62:CYS:SG	1:A:75:HIS:CD2	2.80	0.75
1:A:113:VAL:CG1	1:A:178:LEU:HB3	2.15	0.75
1:A:216:ARG:NE	1:A:341:SER:HA	2.02	0.75
1:A:721:LYS:HB2	8:H:96:VAL:N	2.02	0.75
2:B:825:PHE:O	12:L:42:ARG:NH2	2.19	0.75
5:E:4:GLU:O	5:E:8:ASN:ND2	2.20	0.75
14:N:95:ILE:O	14:N:96:GLU:CD	2.25	0.75
14:N:96:GLU:OE1	14:N:105:SER:HB3	1.85	0.75
15:O:380:MET:SD	15:O:416:LEU:HD22	2.27	0.75
15:O:736:ILE:CG2	16:P:267:TYR:HE1	2.00	0.75
16:P:238:HIS:CE1	16:P:289:ARG:NH2	2.54	0.75
16:P:387:PRO:O	16:P:388:THR:C	2.25	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:419:LEU:N	16:P:419:LEU:HD23	2.02	0.75
17:Q:127:PHE:CD1	17:Q:131:TYR:CE2	2.73	0.75
1:A:372:LYS:HB2	1:A:377:VAL:HG13	1.67	0.74
2:B:811:LEU:HB2	2:B:899:GLN:HB3	1.68	0.74
2:B:817:ARG:CD	19:S:25:DT:O2	2.33	0.74
15:O:193:LEU:O	15:O:194:ARG:O	2.05	0.74
15:O:577:LEU:HD11	16:P:499:LYS:CG	2.17	0.74
15:O:653:SER:HB3	15:O:656:HIS:HD1	1.52	0.74
16:P:158:MET:O	16:P:192:TYR:CE1	2.40	0.74
17:Q:266:SER:O	17:Q:267:GLY:C	2.20	0.74
2:B:232:TYR:HB3	2:B:384:LEU:HD23	1.69	0.74
2:B:726:MET:HE1	2:B:1035:ARG:HD3	1.69	0.74
2:B:811:LEU:O	2:B:813:LEU:N	2.16	0.74
7:G:125:TRP:CZ3	7:G:127:PRO:HG3	2.21	0.74
15:O:173:PHE:O	17:Q:198:LEU:HD11	1.88	0.74
15:O:491:SER:C	15:O:492:LEU:HD12	2.07	0.74
15:O:672:ILE:N	15:O:673:PRO:CD	2.50	0.74
17:Q:31:PHE:HA	17:Q:34:ILE:HG21	1.65	0.74
1:A:969:PHE:CE2	1:A:978:ALA:HA	2.22	0.74
9:I:37:TYR:CD1	9:I:38:PRO:HG2	2.20	0.74
13:M:43:LYS:HB2	14:N:29:PHE:CE1	2.23	0.74
16:P:287:TRP:CD2	16:P:298:VAL:HG13	2.18	0.74
1:A:39:ASP:OD1	1:A:40:ASN:N	2.20	0.74
2:B:129:ARG:HD3	2:B:890:ASP:OD2	1.86	0.74
2:B:1061:LYS:CD	16:P:46:ASP:H	2.00	0.74
5:E:55:ARG:HD2	5:E:113:GLN:HE21	1.53	0.74
14:N:56:ILE:HA	14:N:137:PHE:O	1.87	0.74
15:O:241:PRO:HG2	15:O:266:GLU:OE1	1.87	0.74
15:O:650:LEU:HD22	16:P:139:LYS:HD2	1.69	0.74
15:O:725:VAL:O	16:P:453:PHE:CZ	2.40	0.74
16:P:93:LYS:HZ2	16:P:94:LYS:H	1.31	0.74
16:P:221:PRO:CB	16:P:226:LEU:CD2	2.34	0.74
16:P:315:ASN:HB2	16:P:480:LEU:HD11	1.68	0.74
1:A:83:VAL:HG11	1:A:427:PHE:HE2	1.52	0.74
1:A:1102:LEU:HB2	1:A:1105:ARG:HH21	1.50	0.74
2:B:916:LYS:NZ	18:R:5:G:O3'	2.21	0.74
7:G:137:ILE:CA	7:G:147:LEU:HD23	2.17	0.74
8:H:62:SER:HA	8:H:141:TYR:CE1	2.21	0.74
14:N:82:ILE:HB	14:N:87:TYR:CE2	2.22	0.74
15:O:592:LEU:HD12	16:P:512:ARG:HH21	0.60	0.74
2:B:416:LYS:HE2	2:B:464:PHE:HE2	1.51	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1052:VAL:HG22	16:P:40:GLU:C	2.06	0.74
3:C:134:LEU:HD12	3:C:208:CYS:SG	2.28	0.74
5:E:136:ASN:HB3	5:E:139:ALA:HB3	1.69	0.74
13:M:60:LEU:HG	13:M:102:SER:CB	2.17	0.74
15:O:414:ILE:HB	15:O:425:GLY:C	2.08	0.74
15:O:499:GLU:OE1	15:O:499:GLU:HA	1.86	0.74
15:O:727:PRO:O	15:O:728:GLN:CB	2.35	0.74
17:Q:175:ILE:HB	17:Q:176:PRO:CD	2.17	0.74
17:Q:204:GLU:CD	17:Q:205:VAL:H	1.90	0.74
17:Q:356:PRO:CD	17:Q:357:PRO:N	2.49	0.74
1:A:721:LYS:HD3	8:H:96:VAL:HG23	1.70	0.74
1:A:855:ARG:HH12	1:A:867:ASP:HA	1.51	0.74
1:A:1090:ASP:HB3	1:A:1132:TYR:CD1	2.23	0.74
2:B:438:ILE:HD13	2:B:445:TYR:HB2	1.68	0.74
4:D:28:PRO:HB3	7:G:41:VAL:HB	1.68	0.74
15:O:703:PHE:CE2	16:P:254:LEU:HD21	2.21	0.74
15:O:703:PHE:HZ	16:P:258:MET:SD	2.10	0.74
16:P:185:ILE:HD12	17:Q:208:TYR:OH	1.87	0.74
16:P:208:PRO:CG	16:P:212:VAL:HB	2.15	0.74
17:Q:395:LEU:N	17:Q:395:LEU:HD23	2.01	0.74
2:B:129:ARG:CD	2:B:890:ASP:HB3	2.18	0.74
13:M:76:TYR:OH	14:N:57:LYS:HE2	1.87	0.74
15:O:310:TRP:CE3	15:O:310:TRP:O	2.40	0.74
16:P:156:LEU:C	16:P:160:SER:CB	2.55	0.74
16:P:319:SER:O	16:P:320:PHE:CD2	2.40	0.74
16:P:337:SER:HA	16:P:448:LYS:CE	2.18	0.74
17:Q:388:LYS:HD2	17:Q:393:ILE:CB	2.18	0.74
1:A:363:PRO:O	1:A:368:ARG:NH1	2.17	0.74
1:A:1263:LEU:HB3	1:A:1496:SER:HB2	1.70	0.74
2:B:460:LYS:HA	2:B:463:TYR:HD2	1.53	0.74
8:H:30:SER:HB3	8:H:36:CYS:HB3	1.69	0.74
16:P:378:LEU:HD11	17:Q:234:LYS:HB3	1.69	0.74
17:Q:124:GLU:OE2	17:Q:289:ASN:ND2	2.21	0.74
1:A:360:LEU:HD21	2:B:1184:TYR:OH	1.87	0.74
1:A:547:ILE:HD13	16:P:21:ARG:HE	0.92	0.74
1:A:616:LEU:HD11	1:A:620:ASN:HD22	1.53	0.74
1:A:1053:ASP:OD2	1:A:1580:ARG:NH2	2.20	0.74
2:B:95:LEU:HB2	2:B:440:PHE:CE2	2.23	0.74
2:B:464:PHE:HE1	2:B:471:VAL:HG22	1.52	0.74
7:G:26:ASN:OD1	7:G:37:CYS:HA	1.88	0.74
7:G:95:LEU:HD13	7:G:95:LEU:N	2.02	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:37:TYR:HB2	9:I:38:PRO:HD3	1.66	0.74
14:N:35:LEU:N	14:N:115:SER:OG	2.21	0.74
14:N:109:LEU:HD23	14:N:122:ALA:HB2	1.68	0.74
15:O:704:LEU:HD11	16:P:123:MET:HE3	1.68	0.74
16:P:115:GLN:OE1	16:P:161:THR:CG2	2.36	0.74
16:P:195:ALA:HB2	16:P:216:GLU:CA	2.18	0.74
17:Q:150:GLN:O	17:Q:150:GLN:HG2	1.87	0.74
1:A:487:ASP:HB2	1:A:615:ARG:CD	2.17	0.73
1:A:1497:ILE:HD12	1:A:1497:ILE:O	1.88	0.73
1:A:1568:ASN:O	1:A:1572:ARG:HG2	1.88	0.73
7:G:25:THR:HA	7:G:128:GLN:OE1	1.86	0.73
7:G:27:PRO:O	7:G:35:SER:HA	1.88	0.73
15:O:310:TRP:HD1	15:O:368:HIS:ND1	1.86	0.73
16:P:498:LEU:O	16:P:501:CYS:HB2	1.88	0.73
1:A:1158:SER:OG	1:A:1161:VAL:HG23	1.88	0.73
1:A:1315:ASN:O	1:A:1319:ASN:ND2	2.21	0.73
5:E:10:SER:HA	5:E:39:LEU:HD11	1.70	0.73
15:O:241:PRO:HG2	15:O:266:GLU:CD	2.08	0.73
15:O:390:GLN:CB	17:Q:151:PRO:HG2	2.03	0.73
15:O:662:LEU:HD23	15:O:662:LEU:N	2.02	0.73
16:P:297:ARG:NH1	16:P:500:ASP:OD2	2.21	0.73
17:Q:207:ASN:CG	19:S:13:DA:OP1	2.26	0.73
1:A:855:ARG:NH2	1:A:867:ASP:OD1	2.21	0.73
2:B:349:VAL:O	2:B:353:VAL:HG23	1.88	0.73
15:O:433:VAL:CG1	17:Q:144:VAL:CG1	2.62	0.73
2:B:77:LYS:HD2	2:B:89:GLY:C	2.09	0.73
2:B:811:LEU:C	2:B:813:LEU:H	1.91	0.73
4:D:22:ILE:CG2	7:G:43:ILE:HD12	2.18	0.73
16:P:246:GLU:O	16:P:286:LEU:N	2.22	0.73
2:B:827:PHE:CD2	2:B:869:THR:HG21	2.24	0.73
15:O:433:VAL:CG2	17:Q:144:VAL:HG13	2.17	0.73
17:Q:152:ILE:C	17:Q:154:LYS:N	2.41	0.73
17:Q:393:ILE:O	17:Q:395:LEU:HD23	1.87	0.73
1:A:1229:ALA:CB	1:A:1597:ALA:HB2	2.18	0.73
2:B:142:LYS:HE2	2:B:144:SER:OG	1.89	0.73
2:B:1104:CYS:CB	2:B:1107:CYS:SG	2.57	0.73
5:E:127:ILE:HD11	5:E:132:ILE:HD11	1.71	0.73
15:O:420:GLU:O	15:O:421:ILE:HG13	1.88	0.73
15:O:428:GLU:CA	15:O:435:ARG:HG2	2.18	0.73
15:O:569:VAL:HG21	16:P:477:GLY:C	2.07	0.73
16:P:226:LEU:N	16:P:226:LEU:HD13	2.02	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:352:ILE:O	16:P:355:VAL:HG23	1.87	0.73
20:T:19:DC:C2'	20:T:20:DA:H5"	2.18	0.73
1:A:520:ARG:HG2	1:A:561:LEU:HD12	1.69	0.73
2:B:194:PHE:CD2	2:B:465:LEU:HD21	2.24	0.73
15:O:589:ILE:HG21	16:P:320:PHE:CD2	2.21	0.73
15:O:616:SER:CA	15:O:618:ASP:H	2.01	0.73
16:P:93:LYS:HZ3	16:P:94:LYS:N	1.79	0.73
16:P:219:ILE:HG13	16:P:220:SER:N	2.03	0.73
16:P:389:GLN:OE1	16:P:389:GLN:HA	1.89	0.73
17:Q:155:GLN:HE21	17:Q:155:GLN:C	1.92	0.73
1:A:1647:ASN:HB3	2:B:1085:SER:HB3	1.69	0.73
2:B:897:GLU:HB2	2:B:899:GLN:HE21	1.54	0.73
15:O:174:TRP:C	17:Q:198:LEU:HG	2.09	0.73
15:O:275:GLU:CG	15:O:285:MET:CG	2.67	0.73
15:O:474:LYS:HD2	15:O:499:GLU:H	1.54	0.73
15:O:623:LEU:HD11	15:O:669:PHE:N	2.03	0.73
15:O:669:PHE:HE1	15:O:738:LYS:HE2	0.93	0.73
16:P:9:ILE:HG13	16:P:18:ARG:HH22	1.52	0.73
17:Q:292:SER:HB2	20:T:38:DA:OP2	1.87	0.73
17:Q:358:PHE:CD2	17:Q:365:TRP:CZ3	2.76	0.73
1:A:592:GLN:CD	1:A:593:PRO:HD3	2.07	0.73
7:G:59:GLN:HE21	7:G:63:LYS:HE3	1.53	0.73
15:O:264:ILE:HG21	15:O:302:VAL:HB	1.71	0.73
15:O:399:TRP:HD1	17:Q:134:PRO:HG3	1.48	0.73
15:O:436:ILE:CG2	17:Q:141:TRP:CD2	2.60	0.73
15:O:583:GLU:OE1	15:O:584:ARG:HG2	1.88	0.73
15:O:614:GLU:HG3	15:O:670:ALA:HB3	1.71	0.73
16:P:115:GLN:CG	16:P:190:MET:SD	2.76	0.73
16:P:186:CYS:SG	16:P:349:GLY:CA	2.77	0.73
16:P:278:GLU:HA	16:P:309:TYR:OH	1.89	0.73
2:B:563:SER:HA	13:M:73:SER:CB	2.18	0.73
2:B:818:GLY:O	2:B:821:ILE:HG12	1.87	0.73
14:N:43:ASP:O	14:N:49:LYS:HG3	1.87	0.73
14:N:80:MET:O	14:N:87:TYR:N	2.21	0.73
15:O:194:ARG:C	15:O:197:ARG:NH2	2.43	0.73
15:O:201:GLU:CG	15:O:219:LEU:HB2	2.19	0.73
15:O:279:SER:O	15:O:282:CYS:N	2.21	0.73
15:O:663:LEU:HG	15:O:666:SER:CB	2.14	0.73
16:P:105:LEU:O	16:P:109:GLN:HG3	1.89	0.73
16:P:212:VAL:C	16:P:215:LEU:HD22	2.05	0.73
16:P:282:ARG:HB3	16:P:282:ARG:CZ	2.18	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:535:GLN:HB2	1:A:578:TYR:HD2	1.53	0.72
2:B:1102:SER:HA	2:B:1167:PHE:O	1.89	0.72
15:O:53:UNK:O	15:O:554:ASN:ND2	2.22	0.72
15:O:215:ASN:N	15:O:236:ILE:CG1	2.41	0.72
15:O:437:SER:HB2	15:O:489:PHE:CD2	2.24	0.72
15:O:653:SER:OG	15:O:748:GLU:N	2.22	0.72
16:P:333:SER:O	16:P:336:GLU:HB3	1.88	0.72
16:P:343:THR:C	16:P:345:SER:H	1.92	0.72
16:P:366:TYR:CZ	17:Q:218:ASP:HB2	2.23	0.72
16:P:403:THR:HG23	16:P:406:GLN:H	1.36	0.72
16:P:494:SER:HG	16:P:498:LEU:H	1.36	0.72
17:Q:32:ASP:OD1	17:Q:32:ASP:N	2.20	0.72
1:A:1243:TRP:HB2	1:A:1246:VAL:HG23	1.70	0.72
2:B:825:PHE:HA	2:B:861:TYR:HA	1.69	0.72
7:G:218:VAL:HG22	7:G:224:PRO:CB	2.18	0.72
15:O:381:ILE:HG21	15:O:390:GLN:HE21	1.54	0.72
15:O:414:ILE:HB	15:O:425:GLY:CA	2.18	0.72
16:P:483:ILE:HG22	16:P:487:LEU:HD23	1.70	0.72
1:A:53:ALA:N	1:A:63:SER:HB2	2.04	0.72
1:A:245:LYS:CB	1:A:251:ILE:HD13	2.17	0.72
1:A:475:ARG:HH21	2:B:1061:LYS:HE2	0.63	0.72
2:B:113:VAL:CG2	2:B:114:SER:H	1.79	0.72
2:B:1063:ARG:N	20:T:19:DC:OP1	2.21	0.72
2:B:1138:ALA:C	2:B:1140:LYS:H	1.90	0.72
7:G:56:ASN:ND2	7:G:59:GLN:OE1	2.22	0.72
8:H:15:VAL:HA	8:H:26:ILE:HD12	1.69	0.72
9:I:38:PRO:CA	9:I:41:GLN:O	2.38	0.72
15:O:620:ASP:OD1	15:O:624:GLN:NE2	2.21	0.72
15:O:727:PRO:CD	16:P:264:PRO:CG	2.64	0.72
16:P:93:LYS:NZ	16:P:93:LYS:H	1.86	0.72
16:P:108:PHE:HE2	16:P:137:TRP:CH2	1.94	0.72
17:Q:294:VAL:HG22	17:Q:295:PRO:HD3	1.69	0.72
17:Q:393:ILE:HD11	17:Q:395:LEU:O	1.88	0.72
1:A:64:THR:HB	1:A:75:HIS:CD2	2.24	0.72
2:B:289:PHE:CD2	2:B:306:LEU:HD23	2.22	0.72
2:B:479:GLN:HA	19:S:39:DT:C4	2.24	0.72
2:B:1127:CYS:N	2:B:1166:LYS:HE3	2.03	0.72
5:E:54:GLN:HB2	5:E:57:MET:HB3	1.70	0.72
16:P:290:THR:HG21	16:P:298:VAL:HG21	1.71	0.72
16:P:385:PHE:C	16:P:388:THR:HG22	2.08	0.72
1:A:363:PRO:HB3	2:B:1180:PHE:CD2	2.25	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1224:GLU:OE2	1:A:1233:ILE:HA	1.89	0.72
1:A:1299:ASN:O	1:A:1303:SER:OG	2.01	0.72
9:I:8:ILE:HG23	9:I:17:LEU:CD1	2.18	0.72
15:O:412:ASN:HA	15:O:427:SER:OG	1.90	0.72
15:O:586:LYS:HZ3	16:P:322:ARG:NH2	1.85	0.72
15:O:663:LEU:CG	15:O:666:SER:HB3	2.15	0.72
15:O:704:LEU:HD23	15:O:704:LEU:N	2.03	0.72
16:P:9:ILE:CG1	16:P:18:ARG:NH2	2.52	0.72
17:Q:5:PRO:CB	17:Q:244:GLY:O	2.38	0.72
2:B:1052:VAL:O	16:P:41:PHE:HA	1.89	0.72
15:O:658:LYS:CA	15:O:659:LEU:HD13	2.18	0.72
16:P:93:LYS:HD2	16:P:94:LYS:H	1.51	0.72
16:P:93:LYS:CE	16:P:94:LYS:H	2.01	0.72
16:P:118:TRP:CZ3	16:P:189:LYS:CD	2.64	0.72
16:P:487:LEU:CD1	16:P:498:LEU:HD11	2.20	0.72
17:Q:21:TYR:CD2	17:Q:124:GLU:HB2	2.24	0.72
17:Q:247:ILE:CB	17:Q:298:GLN:HG2	2.20	0.72
1:A:629:ASP:HB3	2:B:785:ASP:OD2	1.89	0.72
15:O:176:PRO:HD3	17:Q:196:GLU:O	1.82	0.72
15:O:222:GLN:NE2	15:O:225:LEU:CB	2.17	0.72
15:O:599:LYS:CB	16:P:272:GLN:NE2	2.51	0.72
16:P:179:CYS:HB2	16:P:255:LYS:HD3	1.72	0.72
16:P:238:HIS:NE2	16:P:289:ARG:NE	2.38	0.72
16:P:344:THR:HA	16:P:436:LEU:O	1.90	0.72
1:A:11:ILE:HA	2:B:1192:MET:O	1.88	0.72
2:B:111:ASP:O	2:B:116:ALA:CB	2.37	0.72
2:B:823:GLN:HA	2:B:862:PHE:O	1.88	0.72
2:B:1090:ASP:HA	2:B:1094:ASN:ND2	2.04	0.72
3:C:57:ILE:HG12	3:C:297:HIS:ND1	2.04	0.72
7:G:63:LYS:HA	7:G:67:ASN:ND2	2.05	0.72
15:O:659:LEU:O	15:O:742:TRP:HZ2	1.72	0.72
16:P:104:PHE:HB2	16:P:211:TYR:CG	2.25	0.72
16:P:158:MET:SD	16:P:219:ILE:O	2.48	0.72
16:P:197:GLU:O	16:P:199:LEU:N	2.21	0.72
17:Q:354:LEU:CG	17:Q:359:MET:HA	2.18	0.72
1:A:27:LEU:O	2:B:1129:ARG:NE	2.17	0.72
1:A:477:ASN:HD21	2:B:1049:THR:HA	1.54	0.72
2:B:851:TYR:CE1	2:B:879:PRO:HB2	2.25	0.72
3:C:230:LEU:HD12	3:C:231:PRO:HD2	1.72	0.72
11:K:62:SER:HA	11:K:104:ARG:HA	1.71	0.72
14:N:103:ASN:HD21	14:N:130:PRO:HG2	1.53	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:18:UNK:CB	17:Q:253:ILE:HA	2.20	0.72
15:O:620:ASP:CG	15:O:674:GLU:HG2	2.09	0.72
16:P:417:PHE:HE2	17:Q:270:PHE:CD2	1.65	0.72
1:A:547:ILE:HG21	16:P:21:ARG:CD	2.20	0.72
2:B:820:PRO:HG3	16:P:81:LEU:CG	2.20	0.72
2:B:940:GLU:OE2	2:B:1014:TYR:OH	2.04	0.72
4:D:41:GLU:OE1	4:D:93:GLN:NE2	2.22	0.72
14:N:90:MET:N	14:N:138:SER:O	2.20	0.72
15:O:380:MET:SD	15:O:394:VAL:HG11	2.30	0.72
15:O:472:ARG:NH1	17:Q:203:SER:OG	2.23	0.72
16:P:60:LEU:HD12	16:P:60:LEU:O	1.90	0.72
16:P:100:ALA:O	16:P:103:LEU:HG	1.89	0.72
16:P:101:LYS:NZ	16:P:151:GLU:C	2.42	0.72
16:P:261:ALA:O	16:P:263:PRO:HD3	1.89	0.72
17:Q:278:TYR:CB	17:Q:308:PHE:CZ	2.73	0.72
17:Q:355:THR:HB	17:Q:356:PRO:HD3	0.74	0.72
1:A:83:VAL:HG21	1:A:427:PHE:CE2	2.24	0.71
1:A:475:ARG:NH2	2:B:1061:LYS:CG	2.53	0.71
1:A:530:TRP:O	1:A:532:GLY:N	2.23	0.71
1:A:1014:SER:HB3	20:T:15:DT:C5'	2.12	0.71
4:D:14:THR:H	4:D:17:ASN:HD21	1.36	0.71
10:J:41:LEU:CD2	10:J:46:CYS:HB3	2.19	0.71
15:O:11:UNK:O	15:O:436:ILE:CD1	2.38	0.71
15:O:456:VAL:HB	15:O:463:LEU:HD11	1.70	0.71
15:O:499:GLU:HG2	15:O:550:TYR:OH	1.90	0.71
15:O:604:ILE:CG1	15:O:732:LEU:HD21	2.20	0.71
16:P:103:LEU:HD11	16:P:211:TYR:CD2	2.22	0.71
16:P:105:LEU:HD23	16:P:109:GLN:NE2	2.05	0.71
16:P:386:LEU:CA	16:P:388:THR:CG2	2.67	0.71
17:Q:33:ARG:O	17:Q:35:SER:N	2.23	0.71
17:Q:358:PHE:CD1	17:Q:365:TRP:CE3	2.77	0.71
1:A:414:GLU:HA	1:A:414:GLU:OE2	1.89	0.71
1:A:1647:ASN:ND2	2:B:1085:SER:OG	2.23	0.71
15:O:269:PHE:HE1	15:O:339:ARG:CD	2.03	0.71
15:O:375:PHE:CE1	15:O:381:ILE:N	2.58	0.71
15:O:434:ARG:H	17:Q:144:VAL:HG11	1.54	0.71
17:Q:362:ALA:O	17:Q:365:TRP:N	2.23	0.71
14:N:80:MET:HE1	14:N:82:ILE:HD11	1.69	0.71
14:N:95:ILE:CD1	14:N:96:GLU:CG	2.65	0.71
15:O:242:ILE:HA	15:O:265:THR:HG22	1.71	0.71
15:O:326:ILE:N	15:O:344:ILE:CD1	2.53	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:438:TRP:HE1	15:O:489:PHE:CB	2.03	0.71
15:O:461:HIS:CB	15:O:484:ARG:HG2	2.19	0.71
15:O:700:LEU:HD23	15:O:709:PRO:CG	2.11	0.71
16:P:93:LYS:CD	16:P:94:LYS:H	2.03	0.71
16:P:106:LYS:HA	16:P:109:GLN:OE1	1.91	0.71
16:P:115:GLN:O	16:P:119:LEU:HG	1.90	0.71
16:P:147:GLN:O	16:P:151:GLU:CB	2.37	0.71
16:P:290:THR:CG2	16:P:298:VAL:HG21	2.20	0.71
1:A:246:ASP:OD1	1:A:247:GLY:N	2.24	0.71
1:A:1451:ILE:HD11	1:A:1458:THR:O	1.90	0.71
2:B:289:PHE:HD2	2:B:306:LEU:HD23	1.55	0.71
13:M:43:LYS:NZ	13:M:45:LYS:CD	2.53	0.71
15:O:214:LEU:CG	15:O:242:ILE:HD13	2.20	0.71
15:O:294:PHE:CZ	15:O:297:ILE:CG1	2.66	0.71
15:O:348:HIS:O	15:O:350:THR:N	2.23	0.71
15:O:424:VAL:HG23	15:O:437:SER:OG	1.90	0.71
15:O:750:PRO:C	15:O:752:LEU:H	1.92	0.71
1:A:416:ARG:O	1:A:419:ILE:HG13	1.90	0.71
1:A:748:ASN:HA	1:A:771:PHE:O	1.89	0.71
1:A:845:ASP:O	1:A:848:LYS:HB2	1.91	0.71
11:K:88:PHE:HB3	11:K:106:GLN:CG	2.19	0.71
15:O:577:LEU:HD13	16:P:502:ILE:CG2	2.13	0.71
15:O:635:ASN:HA	15:O:638:LEU:HB2	1.71	0.71
16:P:119:LEU:HD22	16:P:165:LEU:HD11	1.71	0.71
17:Q:158:THR:O	17:Q:161:ASN:N	2.23	0.71
17:Q:356:PRO:HD2	17:Q:357:PRO:N	2.05	0.71
1:A:754:LYS:HG3	1:A:784:SER:HB3	1.70	0.71
1:A:1640:ARG:HD2	1:A:1647:ASN:HA	1.72	0.71
2:B:74:PHE:CD1	2:B:91:LEU:CB	2.72	0.71
2:B:291:GLY:HA3	2:B:375:LEU:HD13	1.72	0.71
2:B:823:GLN:HG2	2:B:863:ASP:HB2	1.72	0.71
13:M:15:VAL:HA	13:M:90:LEU:HB2	1.72	0.71
13:M:59:ARG:HB2	13:M:60:LEU:HD12	1.71	0.71
15:O:353:ASP:O	17:Q:28:SER:HB2	1.89	0.71
15:O:362:ARG:NH1	15:O:364:GLU:OE1	2.23	0.71
15:O:438:TRP:CH2	15:O:491:SER:HB2	2.25	0.71
15:O:573:GLU:HB3	16:P:496:GLU:OE1	1.89	0.71
15:O:653:SER:OG	15:O:748:GLU:CA	2.38	0.71
16:P:13:ASP:HB2	16:P:33:HIS:HE1	1.56	0.71
16:P:235:GLY:CA	16:P:289:ARG:CA	2.66	0.71
17:Q:34:ILE:HD13	17:Q:165:ILE:HD11	1.71	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:354:LEU:N	17:Q:358:PHE:CD2	2.59	0.71
1:A:406:LEU:HD12	1:A:416:ARG:HE	1.54	0.71
1:A:1047:GLN:NE2	1:A:1587:ASP:OD2	2.20	0.71
2:B:108:MET:SD	2:B:120:LYS:HA	2.31	0.71
2:B:937:PRO:HB2	2:B:1013:MET:HE2	1.73	0.71
15:O:243:LYS:HZ2	15:O:301:GLN:HE22	1.39	0.71
15:O:382:GLU:O	15:O:390:GLN:HG3	1.90	0.71
15:O:624:GLN:HA	15:O:678:LEU:HD21	1.72	0.71
15:O:656:HIS:CD2	15:O:746:ARG:HB3	2.26	0.71
16:P:354:LYS:CD	16:P:362:THR:CG2	2.68	0.71
1:A:413:LEU:HD12	1:A:413:LEU:N	2.06	0.71
1:A:416:ARG:CD	1:A:419:ILE:HG12	2.21	0.71
2:B:362:LEU:HD12	2:B:370:LYS:HA	1.73	0.71
2:B:1060:VAL:HG11	16:P:43:ASP:O	1.91	0.71
3:C:93:GLN:NE2	3:C:95:GLU:OE1	2.18	0.71
15:O:18:UNK:CA	17:Q:252:GLY:O	2.39	0.71
15:O:641:TRP:CZ2	15:O:752:LEU:HD22	2.25	0.71
16:P:48:LEU:HD12	20:T:22:DG:H5'	1.71	0.71
16:P:48:LEU:CD1	20:T:22:DG:C5'	2.66	0.71
16:P:216:GLU:C	16:P:218:SER:H	1.93	0.71
16:P:363:SER:O	16:P:366:TYR:HB2	1.89	0.71
17:Q:31:PHE:O	17:Q:34:ILE:CG2	2.39	0.71
17:Q:247:ILE:HD11	17:Q:248:LYS:HD2	1.73	0.71
17:Q:278:TYR:CB	17:Q:308:PHE:HZ	1.99	0.71
17:Q:352:TRP:O	17:Q:353:VAL:CG1	2.39	0.71
1:A:1299:ASN:HA	1:A:1302:TYR:CZ	2.25	0.71
2:B:249:VAL:CB	2:B:261:ARG:HD3	2.21	0.71
2:B:1052:VAL:N	16:P:40:GLU:O	2.23	0.71
2:B:1061:LYS:HB3	16:P:45:GLU:HA	1.68	0.71
12:L:48:CYS:HB3	12:L:51:CYS:SG	2.31	0.71
15:O:22:UNK:O	17:Q:314:TRP:CE2	2.44	0.71
15:O:366:PHE:CD2	15:O:432:PRO:CA	2.73	0.71
15:O:588:SER:CB	16:P:512:ARG:HH12	2.00	0.71
15:O:589:ILE:CG2	16:P:320:PHE:CD2	2.73	0.71
15:O:615:ASN:CB	15:O:617:HIS:CD2	2.74	0.71
16:P:58:ARG:NH1	16:P:58:ARG:HA	2.05	0.71
16:P:85:GLN:CG	16:P:89:HIS:HE1	2.02	0.71
2:B:146:ASN:HB3	2:B:149:GLU:CB	2.21	0.71
2:B:555:GLN:HE21	2:B:558:VAL:HG11	1.56	0.71
3:C:116:VAL:HG23	3:C:125:LYS:O	1.91	0.71
15:O:275:GLU:CA	15:O:285:MET:O	2.39	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:306:ALA:HB1	15:O:365:TRP:CD1	2.26	0.71
15:O:353:ASP:CG	15:O:354:PRO:HD3	2.09	0.71
15:O:529:GLU:HG2	15:O:530:ASN:N	2.05	0.71
15:O:534:VAL:HA	15:O:552:LEU:O	1.91	0.71
15:O:569:VAL:CG2	16:P:478:ARG:CA	2.69	0.71
16:P:114:ARG:NH1	16:P:197:GLU:OE2	2.24	0.71
16:P:119:LEU:HD13	16:P:165:LEU:CD1	2.20	0.71
16:P:366:TYR:HE1	17:Q:215:THR:HA	0.72	0.71
17:Q:381:ARG:O	17:Q:384:VAL:HG23	1.91	0.71
20:T:21:DT:H2"	20:T:22:DG:C5'	2.15	0.71
1:A:436:ALA:HB2	1:A:443:ALA:CB	2.21	0.70
4:D:82:LEU:HD22	7:G:67:ASN:HB3	1.71	0.70
6:F:72:LYS:HD2	6:F:141:GLY:C	2.11	0.70
13:M:60:LEU:HA	13:M:102:SER:HA	1.72	0.70
15:O:454:GLN:OE1	15:O:535:VAL:HG23	1.91	0.70
16:P:123:MET:C	16:P:124:ARG:HG2	2.09	0.70
16:P:289:ARG:O	16:P:290:THR:C	2.29	0.70
17:Q:317:LEU:HD23	17:Q:367:ILE:HD11	1.72	0.70
1:A:830:MET:CE	2:B:963:PHE:HB3	2.21	0.70
1:A:893:ASP:OD2	1:A:955:ARG:HD3	1.91	0.70
1:A:1070:LEU:HD23	1:A:1154:LEU:HD23	1.72	0.70
14:N:144:LYS:O	14:N:145:ILE:HG13	1.91	0.70
15:O:207:SER:OG	15:O:215:ASN:ND2	2.24	0.70
15:O:499:GLU:CG	15:O:500:ILE:H	2.00	0.70
16:P:93:LYS:HG2	16:P:207:LEU:CA	2.21	0.70
16:P:122:GLU:CD	16:P:123:MET:CE	2.59	0.70
16:P:156:LEU:HA	16:P:160:SER:CB	2.20	0.70
16:P:499:LYS:HA	16:P:502:ILE:HG12	1.73	0.70
17:Q:208:TYR:CD1	17:Q:212:HIS:HE1	2.05	0.70
20:T:24:DA:H2"	20:T:25:DG:OP2	1.90	0.70
1:A:18:ILE:CD1	1:A:354:SER:HB3	2.21	0.70
1:A:912:VAL:CB	1:A:913:PRO:CD	2.38	0.70
1:A:912:VAL:C	1:A:914:ASP:H	1.93	0.70
3:C:227:TYR:HB3	3:C:300:PHE:CE1	2.26	0.70
7:G:26:ASN:HD21	7:G:126:GLN:HE21	1.37	0.70
13:M:43:LYS:CE	13:M:45:LYS:CD	2.70	0.70
15:O:472:ARG:NH1	17:Q:203:SER:HB3	2.05	0.70
15:O:715:TYR:CE1	15:O:734:LYS:HE2	2.27	0.70
15:O:772:ILE:HD13	16:P:138:LEU:HD21	1.71	0.70
1:A:58:LEU:HD11	1:A:60:ASN:HD22	1.21	0.70
2:B:412:ILE:O	2:B:416:LYS:HG2	1.90	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:43:LYS:NZ	13:M:45:LYS:HD2	2.06	0.70
15:O:529:GLU:N	15:O:529:GLU:OE1	2.24	0.70
16:P:4:PHE:CD2	16:P:16:PRO:HB2	2.26	0.70
16:P:479:LEU:O	16:P:479:LEU:HD23	1.92	0.70
16:P:493:ILE:HD12	16:P:493:ILE:N	2.07	0.70
17:Q:5:PRO:HD3	17:Q:217:THR:HG21	1.72	0.70
1:A:67:LEU:HB2	1:A:72:CYS:HB2	1.74	0.70
1:A:831:ASP:OD2	1:A:918:LYS:NZ	2.12	0.70
2:B:1162:GLY:O	2:B:1164:GLY:N	2.25	0.70
3:C:164:ALA:HA	3:C:193:LEU:HD11	1.72	0.70
3:C:258:ILE:HG12	3:C:265:ALA:HA	1.71	0.70
15:O:301:GLN:HB3	15:O:321:LYS:HZ3	1.56	0.70
15:O:436:ILE:HG12	17:Q:141:TRP:CE3	2.26	0.70
15:O:604:ILE:CG1	15:O:732:LEU:CD2	2.66	0.70
16:P:479:LEU:HD23	16:P:479:LEU:C	2.12	0.70
17:Q:282:SER:CA	17:Q:302:ARG:CG	2.69	0.70
2:B:74:PHE:CE1	2:B:91:LEU:CB	2.75	0.70
2:B:74:PHE:CE1	2:B:91:LEU:CG	2.74	0.70
2:B:817:ARG:CD	19:S:26:DT:H5'	2.20	0.70
2:B:987:ASN:OD1	2:B:988:GLU:N	2.25	0.70
15:O:356:GLU:HG2	15:O:377:ARG:NH2	2.06	0.70
15:O:408:ILE:CD1	15:O:464:LEU:HD13	2.21	0.70
15:O:775:TRP:HZ3	16:P:134:LYS:HE2	1.55	0.70
1:A:1463:ASP:HB2	1:A:1469:TRP:NE1	2.06	0.70
2:B:664:VAL:HA	2:B:668:GLU:OE2	1.92	0.70
15:O:341:LEU:HD12	15:O:341:LEU:O	1.91	0.70
16:P:95:LEU:O	16:P:96:ILE:CB	2.39	0.70
16:P:209:ASN:C	16:P:210:TYR:CD2	2.65	0.70
17:Q:258:LEU:HD22	17:Q:265:SER:HB2	1.72	0.70
1:A:85:CYS:HA	1:A:431:GLN:OE1	1.92	0.70
5:E:27:GLY:O	5:E:65:THR:HG23	1.92	0.70
15:O:9:UNK:C	15:O:11:UNK:N	2.53	0.70
15:O:262:GLY:HA2	15:O:271:ILE:HA	1.74	0.70
15:O:273:ARG:CB	15:O:287:SER:OG	2.37	0.70
15:O:315:PHE:CB	15:O:317:ILE:CD1	2.69	0.70
15:O:378:SER:HB3	15:O:397:LYS:CG	2.21	0.70
15:O:415:LEU:HD21	15:O:451:ILE:CD1	2.21	0.70
15:O:669:PHE:O	15:O:671:SER:N	2.24	0.70
16:P:150:GLU:O	16:P:150:GLU:HG2	1.92	0.70
17:Q:21:TYR:HE2	17:Q:124:GLU:CG	2.04	0.70
15:O:589:ILE:CG2	16:P:320:PHE:CE2	2.71	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:705:HIS:NE2	15:O:707:ASP:CB	2.50	0.70
15:O:740:ILE:HG21	16:P:267:TYR:OH	1.91	0.70
16:P:95:LEU:HD23	16:P:99:GLU:OE2	1.87	0.70
16:P:119:LEU:CD2	16:P:165:LEU:CD1	2.70	0.70
16:P:263:PRO:CG	16:P:266:PHE:CB	2.51	0.70
17:Q:29:ARG:O	17:Q:32:ASP:CG	2.30	0.70
17:Q:158:THR:CG2	17:Q:161:ASN:CB	2.67	0.70
17:Q:385:ASN:O	17:Q:389:ASN:O	2.10	0.70
1:A:597:LYS:O	2:B:1082:HIS:NE2	2.25	0.70
1:A:646:GLU:OE2	2:B:1086:PHE:HB2	1.92	0.70
1:A:1298:ASP:CB	1:A:1301:GLU:HG3	2.06	0.70
1:A:1463:ASP:OD2	1:A:1466:SER:OG	2.08	0.70
2:B:416:LYS:HZ1	2:B:460:LYS:HD3	1.56	0.70
15:O:214:LEU:CA	15:O:236:ILE:CG2	2.67	0.70
15:O:356:GLU:CA	17:Q:24:ILE:CD1	2.70	0.70
15:O:464:LEU:N	15:O:481:PHE:O	2.22	0.70
16:P:225:GLN:HE22	20:T:46:DT:H4'	1.57	0.70
17:Q:380:SER:O	17:Q:383:PHE:C	2.29	0.70
1:A:632:GLU:OE2	2:B:1040:VAL:HG11	1.92	0.69
2:B:979:GLN:HE22	2:B:999:GLN:HE22	1.40	0.69
5:E:97:VAL:HG22	5:E:132:ILE:HD13	1.74	0.69
14:N:45:LYS:HB2	14:N:48:ALA:HB3	1.72	0.69
15:O:389:TRP:CZ3	17:Q:148:ASN:C	2.65	0.69
1:A:590:ASN:OD1	1:A:594:THR:HG22	1.91	0.69
1:A:1102:LEU:HA	1:A:1105:ARG:HE	1.57	0.69
1:A:1490:GLU:HG2	9:I:56:PHE:CZ	2.27	0.69
2:B:120:LYS:HE3	17:Q:351:GLU:OE2	1.92	0.69
2:B:977:ILE:HD11	2:B:979:GLN:NE2	2.07	0.69
2:B:1061:LYS:HE3	16:P:45:GLU:CB	2.21	0.69
3:C:157:TYR:HB2	3:C:160:ALA:HB2	1.74	0.69
3:C:251:PHE:CE1	3:C:279:VAL:HB	2.26	0.69
5:E:10:SER:HA	5:E:39:LEU:CD1	2.22	0.69
7:G:166:TRP:HZ3	7:G:225:ILE:CG2	2.04	0.69
15:O:188:GLN:N	15:O:199:GLY:CA	2.37	0.69
1:A:542:SER:HB2	16:P:34:VAL:HG11	1.75	0.69
2:B:368:GLN:NE2	13:M:65:TYR:OH	2.26	0.69
5:E:9:ILE:CG2	5:E:43:LYS:HG2	2.22	0.69
7:G:43:ILE:HD13	7:G:122:LEU:HD11	1.74	0.69
15:O:769:GLN:O	15:O:772:ILE:CG2	2.39	0.69
16:P:18:ARG:O	16:P:30:GLN:CG	2.40	0.69
16:P:208:PRO:O	16:P:211:TYR:CE2	2.45	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:367:PHE:HZ	17:Q:1:MET:SD	2.13	0.69
16:P:369:TRP:HH2	16:P:377:PHE:CG	1.96	0.69
16:P:381:MET:CE	16:P:385:PHE:HD2	1.54	0.69
16:P:484:ALA:O	16:P:488:LEU:HB3	1.92	0.69
1:A:920:PHE:HB3	1:A:921:PRO:HD2	1.68	0.69
1:A:1023:LEU:HD23	1:A:1226:VAL:HG11	1.73	0.69
1:A:1136:VAL:HG12	1:A:1174:TYR:CD2	2.26	0.69
2:B:284:SER:N	2:B:287:GLU:OE1	2.19	0.69
2:B:406:GLY:O	2:B:409:TYR:HB3	1.92	0.69
14:N:54:TRP:HA	14:N:135:LYS:O	1.92	0.69
15:O:294:PHE:CE2	15:O:300:LEU:HB2	2.27	0.69
15:O:374:VAL:O	15:O:375:PHE:CG	2.45	0.69
16:P:119:LEU:HD21	16:P:165:LEU:CD1	2.23	0.69
16:P:146:ASP:CA	16:P:148:PRO:HD3	2.21	0.69
1:A:57:PHE:C	1:A:58:LEU:HG	2.12	0.69
1:A:427:PHE:O	1:A:430:ILE:HG22	1.92	0.69
1:A:588:LEU:HD21	2:B:1079:LEU:HD21	1.74	0.69
1:A:612:LYS:H	2:B:913:ILE:HD11	1.58	0.69
2:B:547:HIS:CE1	2:B:548:LYS:HD3	2.27	0.69
3:C:196:LEU:O	3:C:197:ARG:NH1	2.26	0.69
7:G:12:GLU:OE1	7:G:15:ARG:NH2	2.16	0.69
7:G:37:CYS:SG	7:G:127:PRO:HA	2.32	0.69
13:M:9:GLU:HA	14:N:73:ASP:HB3	1.74	0.69
13:M:55:GLY:O	13:M:61:GLU:HG3	1.92	0.69
15:O:299:ASP:HB2	17:Q:159:TYR:HD2	1.51	0.69
15:O:580:ASN:HB2	16:P:506:LYS:NZ	2.07	0.69
16:P:58:ARG:HA	16:P:58:ARG:HH11	1.57	0.69
16:P:208:PRO:HA	16:P:211:TYR:CE2	2.26	0.69
17:Q:393:ILE:O	17:Q:395:LEU:CD2	2.40	0.69
1:A:409:ASP:OD1	1:A:411:VAL:N	2.25	0.69
1:A:496:GLY:HA3	1:A:615:ARG:HB3	1.75	0.69
1:A:1158:SER:CB	1:A:1161:VAL:HG23	2.22	0.69
1:A:1242:ILE:HD11	1:A:1517:ARG:HB3	1.74	0.69
3:C:236:LEU:HD21	3:C:290:LYS:HD2	1.74	0.69
13:M:30:PHE:CZ	13:M:32:ALA:HB2	2.28	0.69
13:M:80:LEU:HD12	14:N:52:GLN:O	1.91	0.69
15:O:308:ASN:N	15:O:365:TRP:CE2	2.60	0.69
15:O:362:ARG:HH12	15:O:364:GLU:CG	2.05	0.69
15:O:613:HIS:NE2	15:O:619:GLU:CG	2.56	0.69
16:P:154:LEU:HD13	16:P:154:LEU:N	2.08	0.69
16:P:263:PRO:HG2	16:P:266:PHE:CG	2.22	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:263:PRO:O	16:P:265:GLU:N	2.25	0.69
17:Q:361:ASP:O	17:Q:364:VAL:CG2	2.40	0.69
1:A:646:GLU:CD	2:B:1086:PHE:HB2	2.13	0.69
1:A:845:ASP:HA	1:A:848:LYS:HD2	1.73	0.69
16:P:103:LEU:HD12	16:P:103:LEU:C	2.13	0.69
17:Q:247:ILE:HG13	17:Q:298:GLN:CB	2.15	0.69
1:A:217:LYS:HZ2	1:A:1604:GLU:HG2	1.57	0.69
1:A:1179:ILE:HD11	1:A:1183:GLU:HG2	1.73	0.69
2:B:21:ARG:NH1	10:J:54:VAL:HA	2.08	0.69
2:B:94:LYS:O	2:B:146:ASN:N	2.23	0.69
3:C:55:ASP:OD1	3:C:299:ILE:HA	1.93	0.69
3:C:134:LEU:CD2	3:C:169:PHE:HA	2.22	0.69
4:D:91:ARG:HG2	4:D:94:ARG:NH2	2.08	0.69
5:E:47:CYS:HA	5:E:52:ARG:O	1.92	0.69
7:G:157:ILE:HG21	7:G:249:LEU:HG	1.74	0.69
15:O:275:GLU:N	15:O:285:MET:O	2.26	0.69
15:O:394:VAL:HG12	17:Q:141:TRP:NE1	2.06	0.69
15:O:400:SER:HA	15:O:419:ARG:HH21	1.57	0.69
15:O:428:GLU:O	15:O:431:ASP:O	2.10	0.69
15:O:435:ARG:HG3	15:O:435:ARG:O	1.93	0.69
15:O:438:TRP:NE1	15:O:489:PHE:HB3	2.07	0.69
15:O:482:SER:OG	15:O:490:GLN:HB2	1.92	0.69
15:O:582:ASP:O	15:O:586:LYS:HB2	1.92	0.69
15:O:659:LEU:O	15:O:742:TRP:CZ2	2.46	0.69
15:O:704:LEU:CD1	16:P:123:MET:CE	2.69	0.69
15:O:714:PHE:CE2	15:O:741:ILE:CD1	2.74	0.69
16:P:399:SER:N	16:P:410:ARG:HH12	1.90	0.69
17:Q:360:GLU:O	17:Q:361:ASP:CB	2.40	0.69
1:A:68:ASP:OD2	1:A:70:LYS:NZ	2.24	0.69
1:A:596:HIS:CD2	1:A:598:ALA:HB3	2.27	0.69
1:A:1080:TYR:OH	1:A:1173:LYS:NZ	2.25	0.69
2:B:613:VAL:CG1	2:B:660:LYS:HE3	2.23	0.69
15:O:239:HIS:O	15:O:240:SER:OG	2.11	0.69
16:P:156:LEU:HD12	16:P:157:HIS:O	1.92	0.69
16:P:418:PRO:O	16:P:420:ASP:OD1	2.11	0.69
1:A:77:GLY:O	1:A:362:VAL:N	2.24	0.69
1:A:411:VAL:HG22	1:A:412:SER:N	2.08	0.69
2:B:321:GLN:OE1	13:M:104:SER:OG	2.11	0.69
5:E:18:THR:OG1	5:E:140:LEU:O	2.05	0.69
5:E:128:PRO:HB2	5:E:129:PRO:HD2	1.74	0.69
7:G:98:GLU:O	7:G:98:GLU:CD	2.31	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:178:VAL:O	15:O:243:LYS:HE2	1.93	0.69
15:O:290:GLU:HB3	15:O:338:LYS:O	1.93	0.69
16:P:494:SER:CB	16:P:497:GLN:CG	2.71	0.69
17:Q:294:VAL:CG2	17:Q:295:PRO:HD3	2.22	0.69
1:A:382:GLN:OE1	2:B:1180:PHE:HZ	1.76	0.68
1:A:920:PHE:CB	1:A:921:PRO:CD	2.54	0.68
2:B:416:LYS:NZ	2:B:460:LYS:HD3	2.08	0.68
5:E:53:PRO:HB2	5:E:58:MET:SD	2.33	0.68
15:O:188:GLN:CA	15:O:199:GLY:CA	2.67	0.68
15:O:301:GLN:OE1	15:O:301:GLN:HA	1.90	0.68
15:O:310:TRP:CD1	15:O:368:HIS:ND1	2.59	0.68
15:O:663:LEU:HD11	15:O:742:TRP:CH2	2.28	0.68
16:P:157:HIS:CG	16:P:158:MET:N	2.61	0.68
16:P:359:ASP:C	16:P:361:PRO:HD3	2.12	0.68
1:A:401:ASP:O	1:A:405:LYS:HB2	1.92	0.68
1:A:855:ARG:HH22	1:A:867:ASP:HA	1.58	0.68
3:C:120:LEU:CD1	3:C:124:GLU:HB2	2.19	0.68
9:I:38:PRO:HB2	9:I:41:GLN:O	1.92	0.68
15:O:275:GLU:HB3	15:O:285:MET:CG	2.22	0.68
15:O:470:SER:O	15:O:504:THR:HG22	1.93	0.68
2:B:1061:LYS:CE	16:P:45:GLU:HB2	2.23	0.68
3:C:150:SER:O	3:C:150:SER:OG	2.03	0.68
5:E:13:TRP:CE3	5:E:39:LEU:HB2	2.28	0.68
7:G:163:PRO:HD2	7:G:166:TRP:NE1	2.08	0.68
8:H:6:PHE:O	8:H:59:ILE:N	2.26	0.68
15:O:600:GLU:OE1	16:P:269:TYR:HE1	1.72	0.68
16:P:344:THR:CA	16:P:436:LEU:O	2.42	0.68
17:Q:284:PHE:CZ	19:S:22:DG:C5'	2.69	0.68
1:A:995:TYR:OH	2:B:531:VAL:HG11	1.92	0.68
2:B:709:PHE:HE2	2:B:992:PRO:HG3	1.58	0.68
2:B:1088:LEU:HD11	2:B:1092:LEU:HD12	1.75	0.68
2:B:1133:MET:CE	7:G:15:ARG:HH22	2.07	0.68
7:G:138:PHE:CD2	7:G:139:ILE:HG23	2.29	0.68
10:J:16:ASP:OD1	10:J:17:LYS:HG3	1.93	0.68
15:O:428:GLU:HG2	15:O:435:ARG:CG	2.22	0.68
15:O:623:LEU:CD1	15:O:669:PHE:N	2.55	0.68
16:P:150:GLU:N	16:P:150:GLU:OE1	2.26	0.68
16:P:225:GLN:HB3	16:P:226:LEU:HD13	1.76	0.68
16:P:344:THR:OG1	16:P:438:PHE:CA	2.40	0.68
1:A:475:ARG:NH2	2:B:1061:LYS:CD	2.56	0.68
1:A:998:HIS:HE1	2:B:711:GLN:HA	1.59	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:502:MET:SD	2:B:542:LEU:HD21	2.34	0.68
2:B:937:PRO:HG2	2:B:1013:MET:HE1	1.75	0.68
3:C:329:LYS:HE2	11:K:122:LYS:HD2	1.74	0.68
5:E:159:ASP:OD1	5:E:162:ARG:NH2	2.25	0.68
7:G:145:ILE:HD11	7:G:217:TRP:HE3	1.58	0.68
7:G:149:ILE:HD11	7:G:231:PHE:HZ	1.59	0.68
8:H:5:LEU:HD11	8:H:61:SER:HB3	1.76	0.68
13:M:55:GLY:HA3	13:M:62:TYR:CE2	2.29	0.68
15:O:301:GLN:O	15:O:320:ILE:HG12	1.91	0.68
15:O:310:TRP:HB2	15:O:368:HIS:CE1	2.28	0.68
15:O:414:ILE:HD12	15:O:425:GLY:CA	2.20	0.68
15:O:768:TYR:CG	16:P:145:ASN:CG	2.64	0.68
16:P:359:ASP:CG	16:P:361:PRO:HD3	2.13	0.68
17:Q:248:LYS:HA	17:Q:298:GLN:HE22	1.58	0.68
2:B:916:LYS:HZ2	18:R:6:A:P	2.17	0.68
2:B:1175:THR:O	2:B:1179:PRO:HD2	1.93	0.68
3:C:143:ASN:O	3:C:145:ASP:N	2.25	0.68
7:G:216:HIS:NE2	7:G:224:PRO:HB2	2.08	0.68
14:N:25:ILE:HB	14:N:26:PRO:HD2	0.69	0.68
15:O:305:PHE:HA	15:O:317:ILE:O	1.93	0.68
15:O:356:GLU:HB3	17:Q:24:ILE:CD1	2.09	0.68
15:O:585:GLU:O	15:O:587:GLU:N	2.25	0.68
16:P:183:LYS:HD2	16:P:189:LYS:HD2	1.75	0.68
17:Q:140:ILE:HG22	17:Q:142:ARG:CD	2.23	0.68
17:Q:354:LEU:N	17:Q:358:PHE:HD2	1.92	0.68
17:Q:355:THR:CG2	17:Q:356:PRO:HD3	2.24	0.68
17:Q:388:LYS:CE	17:Q:392:LEU:O	2.41	0.68
2:B:95:LEU:C	2:B:95:LEU:HD12	2.14	0.68
2:B:277:LEU:CD2	2:B:374:LEU:HD23	2.24	0.68
2:B:1126:VAL:HB	2:B:1166:LYS:CE	2.24	0.68
5:E:12:LEU:HD13	5:E:137:GLU:OE2	1.94	0.68
9:I:10:CYS:N	9:I:15:ASP:O	2.22	0.68
15:O:216:ILE:C	15:O:234:THR:HG1	1.97	0.68
15:O:266:GLU:O	15:O:300:LEU:CD1	2.41	0.68
15:O:266:GLU:OE1	15:O:266:GLU:N	2.24	0.68
15:O:351:ILE:CA	17:Q:157:MET:CE	2.71	0.68
16:P:115:GLN:OE1	16:P:161:THR:HG21	1.93	0.68
1:A:58:LEU:HD22	16:P:62:LEU:O	1.92	0.68
1:A:543:LEU:HD23	16:P:26:ARG:HH21	1.55	0.68
1:A:720:PHE:CD2	8:H:63:LEU:HD11	2.28	0.68
2:B:74:PHE:CE1	2:B:91:LEU:HB2	2.29	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:359:LEU:O	2:B:370:LYS:HE2	1.94	0.68
5:E:1:MET:HB3	5:E:4:GLU:HB3	1.75	0.68
15:O:772:ILE:O	15:O:775:TRP:N	2.26	0.68
16:P:100:ALA:CB	16:P:209:ASN:HB3	2.24	0.68
16:P:494:SER:OG	16:P:497:GLN:HG2	1.92	0.68
1:A:546:LEU:HD22	1:A:554:ARG:HG2	1.75	0.68
9:I:17:LEU:HD12	9:I:17:LEU:O	1.94	0.68
11:K:80:ILE:HG21	11:K:89:CYS:SG	2.33	0.68
15:O:220:THR:N	15:O:228:ASN:O	2.26	0.68
15:O:298:ASP:OD2	17:Q:157:MET:O	2.01	0.68
15:O:421:ILE:HG22	15:O:439:LYS:CG	2.24	0.68
15:O:653:SER:OG	15:O:748:GLU:HB3	1.93	0.68
16:P:35:MET:HE2	16:P:38:ASP:CA	2.17	0.68
16:P:165:LEU:HD23	16:P:165:LEU:C	2.14	0.68
16:P:263:PRO:HB3	16:P:266:PHE:CD2	2.26	0.68
16:P:330:TRP:HE3	16:P:331:ILE:HD13	1.57	0.68
17:Q:349:ILE:CD1	17:Q:368:TYR:CD1	2.76	0.68
1:A:105:CYS:SG	21:A:1701:ZN:ZN	1.82	0.68
2:B:1040:VAL:HA	2:B:1043:LYS:HG2	1.76	0.68
3:C:73:SER:O	3:C:214:GLY:N	2.27	0.68
4:D:91:ARG:HB3	7:G:151:ASP:OD2	1.94	0.68
15:O:202:ILE:HG22	15:O:216:ILE:HG23	1.74	0.68
15:O:294:PHE:CD2	15:O:300:LEU:HB2	2.29	0.68
15:O:324:TRP:CZ2	15:O:347:LEU:HD12	2.24	0.68
15:O:538:LEU:HD12	15:O:538:LEU:O	1.94	0.68
15:O:693:PHE:CG	15:O:746:ARG:HB2	2.29	0.68
16:P:195:ALA:CB	16:P:216:GLU:N	2.57	0.68
17:Q:292:SER:O	17:Q:293:ILE:HG13	1.92	0.68
17:Q:298:GLN:O	17:Q:299:THR:CB	2.41	0.68
1:A:865:ASP:O	1:A:868:THR:OG1	2.08	0.67
2:B:505:ARG:CZ	2:B:509:PHE:HE2	2.07	0.67
7:G:161:ASN:O	7:G:250:ILE:HG23	1.95	0.67
12:L:31:CYS:CB	12:L:34:CYS:SG	2.80	0.67
15:O:232:ASN:HD21	15:O:283:ASP:HA	1.59	0.67
15:O:362:ARG:HH12	15:O:364:GLU:CD	1.97	0.67
15:O:414:ILE:HD13	15:O:434:ARG:HH21	1.58	0.67
15:O:442:LEU:C	15:O:442:LEU:HD12	2.15	0.67
15:O:648:SER:O	15:O:649:ILE:O	2.12	0.67
15:O:722:TRP:CE2	16:P:262:LEU:HG	2.29	0.67
16:P:33:HIS:CD2	16:P:34:VAL:HG13	2.29	0.67
16:P:195:ALA:HB2	16:P:216:GLU:HA	1.76	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:209:ASN:O	16:P:211:TYR:CD1	2.48	0.67
16:P:334:LEU:CD2	16:P:449:GLN:OE1	2.42	0.67
1:A:113:VAL:HG12	1:A:182:LYS:HE3	1.76	0.67
2:B:122:TYR:CE2	2:B:175:MET:HE1	2.27	0.67
2:B:1040:VAL:HA	2:B:1043:LYS:CG	2.23	0.67
7:G:48:SER:HB3	7:G:115:PHE:HE1	1.58	0.67
11:K:41:GLU:HB3	11:K:44:ARG:NH1	2.08	0.67
15:O:189:THR:HG21	15:O:259:ASN:ND2	2.09	0.67
15:O:214:LEU:CB	15:O:236:ILE:CG2	2.11	0.67
15:O:328:ARG:H	15:O:340:LYS:HB2	1.57	0.67
15:O:347:LEU:CD1	15:O:347:LEU:O	2.41	0.67
15:O:381:ILE:HG23	15:O:391:THR:O	1.95	0.67
15:O:419:ARG:NH1	15:O:420:GLU:OE1	2.27	0.67
16:P:103:LEU:HD11	16:P:211:TYR:HE2	0.64	0.67
1:A:790:LYS:HG3	1:A:791:TYR:CD2	2.28	0.67
8:H:12:VAL:N	8:H:53:ASP:O	2.24	0.67
15:O:475:ARG:CZ	15:O:496:THR:HG23	2.23	0.67
15:O:669:PHE:HE1	15:O:738:LYS:CE	1.81	0.67
16:P:210:TYR:O	16:P:211:TYR:O	2.11	0.67
17:Q:149:LYS:HE3	17:Q:149:LYS:CA	2.25	0.67
17:Q:280:SER:C	17:Q:301:SER:HB2	2.13	0.67
1:A:951:ALA:O	1:A:952:LEU:HD12	1.95	0.67
1:A:1617:THR:CG2	20:T:12:DG:H4'	2.25	0.67
2:B:129:ARG:HH11	2:B:890:ASP:CG	1.97	0.67
7:G:163:PRO:HG3	7:G:250:ILE:HG22	1.76	0.67
8:H:101:ALA:HA	8:H:116:TYR:HD1	1.59	0.67
15:O:339:ARG:HG3	15:O:340:LYS:N	2.09	0.67
15:O:415:LEU:CD2	15:O:451:ILE:HD13	2.23	0.67
15:O:603:ARG:NH2	16:P:268:PHE:HD1	1.81	0.67
16:P:115:GLN:NE2	16:P:190:MET:SD	2.67	0.67
17:Q:21:TYR:CD2	17:Q:124:GLU:CB	2.77	0.67
17:Q:175:ILE:HB	17:Q:176:PRO:HD3	1.75	0.67
1:A:101:SER:O	1:A:109:ARG:NH1	2.27	0.67
1:A:592:GLN:HG3	1:A:593:PRO:CD	2.19	0.67
2:B:509:PHE:HA	2:B:512:LEU:HG	1.76	0.67
15:O:310:TRP:CE2	15:O:370:GLN:NE2	2.62	0.67
15:O:323:ASN:CA	15:O:348:HIS:HB2	2.25	0.67
16:P:93:LYS:CB	16:P:207:LEU:CB	2.72	0.67
17:Q:247:ILE:HG21	17:Q:278:TYR:HE2	0.69	0.67
1:A:1104:TYR:CZ	1:A:1117:SER:HA	2.30	0.67
2:B:726:MET:CE	2:B:1035:ARG:HD3	2.24	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:737:SER:HB3	2:B:806:THR:HG21	1.76	0.67
7:G:85:GLU:HB2	7:G:123:TYR:HE2	1.59	0.67
15:O:324:TRP:HE1	15:O:348:HIS:HA	1.59	0.67
1:A:248:PHE:CE2	1:A:442:LYS:HE3	2.30	0.67
1:A:746:GLY:HA3	1:A:773:ASP:C	2.15	0.67
2:B:21:ARG:HH12	10:J:54:VAL:HA	1.60	0.67
2:B:286:ARG:HD3	9:I:9:PHE:CE2	2.30	0.67
15:O:243:LYS:HZ1	15:O:301:GLN:NE2	1.90	0.67
15:O:314:GLN:HB3	15:O:329:ILE:N	2.09	0.67
15:O:395:GLN:NE2	15:O:397:LYS:HA	2.10	0.67
15:O:436:ILE:HG12	17:Q:141:TRP:CZ3	2.30	0.67
15:O:451:ILE:HG13	15:O:467:PHE:O	1.95	0.67
15:O:726:SER:HB2	15:O:727:PRO:HD3	1.73	0.67
15:O:726:SER:CB	15:O:727:PRO:CD	2.70	0.67
16:P:158:MET:CB	16:P:192:TYR:OH	2.43	0.67
16:P:369:TRP:HZ3	17:Q:219:LEU:HD11	1.57	0.67
16:P:378:LEU:HD11	17:Q:235:ILE:N	2.04	0.67
17:Q:365:TRP:CE3	17:Q:365:TRP:HA	2.29	0.67
1:A:957:VAL:HG12	1:A:958:PRO:O	1.95	0.67
1:A:1288:ARG:O	1:A:1476:LEU:N	2.27	0.67
2:B:1132:SER:HB3	2:B:1163:GLN:HB3	1.75	0.67
2:B:1138:ALA:O	2:B:1140:LYS:N	2.28	0.67
4:D:14:THR:H	4:D:17:ASN:ND2	1.93	0.67
15:O:205:TYR:CD2	15:O:215:ASN:HB3	2.29	0.67
15:O:243:LYS:HZ2	15:O:301:GLN:NE2	1.92	0.67
16:P:328:LEU:HD13	16:P:472:ARG:HB3	1.76	0.67
1:A:189:VAL:HG12	1:A:193:ILE:HD12	1.76	0.67
1:A:244:ARG:O	1:A:252:PHE:N	2.22	0.67
1:A:464:GLU:OE2	1:A:469:LYS:HD3	1.94	0.67
1:A:511:VAL:O	1:A:574:ASN:ND2	2.23	0.67
1:A:1294:MET:O	1:A:1469:TRP:HA	1.94	0.67
2:B:146:ASN:HB3	2:B:149:GLU:HB3	1.75	0.67
2:B:152:LEU:HD23	2:B:446:MET:SD	2.35	0.67
2:B:204:ARG:NH2	2:B:483:GLY:O	2.27	0.67
2:B:613:VAL:HG21	2:B:655:TYR:CD2	2.30	0.67
15:O:372:ILE:O	15:O:373:LEU:HD23	1.95	0.67
16:P:150:GLU:O	16:P:150:GLU:CG	2.37	0.67
1:A:197:LEU:HD23	1:A:202:THR:HG23	1.76	0.67
1:A:543:LEU:HD23	16:P:26:ARG:CZ	2.25	0.67
1:A:1291:VAL:HG22	1:A:1473:LYS:HG3	1.77	0.67
2:B:129:ARG:HD3	2:B:890:ASP:HB3	1.76	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:237:ARG:NH1	2:B:401:GLU:OE2	2.28	0.67
2:B:251:HIS:HE1	2:B:261:ARG:CD	1.95	0.67
2:B:460:LYS:HA	2:B:463:TYR:CD2	2.29	0.67
15:O:194:ARG:HB3	15:O:194:ARG:CZ	2.25	0.67
15:O:296:GLU:OE1	15:O:296:GLU:N	2.21	0.67
15:O:692:THR:HA	15:O:747:LEU:CD1	2.25	0.67
15:O:706:GLU:HG3	16:P:438:PHE:CG	2.28	0.67
15:O:740:ILE:HG12	16:P:267:TYR:OH	1.94	0.67
16:P:491:PHE:C	16:P:493:ILE:H	1.98	0.67
1:A:934:LYS:HE3	2:B:956:SER:HB3	1.77	0.66
2:B:613:VAL:HG11	2:B:658:LEU:HB2	1.77	0.66
2:B:791:LYS:HB2	2:B:931:TRP:O	1.96	0.66
2:B:833:PRO:HD2	2:B:836:TRP:CZ2	2.30	0.66
5:E:26:ARG:NH2	5:E:187:TYR:O	2.28	0.66
6:F:117:PRO:HA	6:F:120:ILE:HD12	1.76	0.66
15:O:353:ASP:HB3	17:Q:31:PHE:HB3	1.77	0.66
15:O:436:ILE:CB	17:Q:141:TRP:HZ3	2.00	0.66
16:P:354:LYS:HG2	16:P:362:THR:CB	2.24	0.66
17:Q:134:PRO:O	17:Q:135:GLU:HB2	1.96	0.66
17:Q:248:LYS:CA	17:Q:298:GLN:HE22	2.08	0.66
17:Q:383:PHE:HZ	17:Q:398:ASP:OD1	1.77	0.66
2:B:108:MET:CE	2:B:120:LYS:HG2	2.25	0.66
2:B:513:LYS:HZ2	19:S:42:DG:C4'	2.01	0.66
2:B:817:ARG:NH1	19:S:25:DT:C2	2.53	0.66
2:B:1049:THR:HG22	16:P:24:ASP:C	2.10	0.66
5:E:86:PRO:HA	5:E:113:GLN:HB2	1.76	0.66
8:H:110:ASP:OD2	8:H:128:ASN:HB2	1.95	0.66
15:O:573:GLU:O	15:O:575:ALA:N	2.28	0.66
15:O:706:GLU:CG	16:P:438:PHE:HB3	2.21	0.66
16:P:113:LYS:HA	16:P:116:ILE:CG1	2.25	0.66
16:P:118:TRP:HH2	16:P:189:LYS:HD3	0.72	0.66
16:P:206:GLN:O	16:P:208:PRO:N	2.28	0.66
16:P:287:TRP:HE1	16:P:300:ASN:CG	1.98	0.66
17:Q:204:GLU:OE1	17:Q:204:GLU:N	2.28	0.66
17:Q:393:ILE:HG13	17:Q:400:LYS:NZ	2.10	0.66
1:A:321:LYS:HA	1:A:356:PHE:HE2	1.61	0.66
1:A:504:LYS:O	2:B:1048:SER:OG	2.10	0.66
1:A:684:ASP:OD1	8:H:22:LYS:HG2	1.95	0.66
2:B:116:ALA:O	2:B:117:VAL:C	2.33	0.66
2:B:816:ASN:HB2	2:B:819:ASP:OD1	1.95	0.66
8:H:10:PHE:HE1	8:H:30:SER:HB2	1.59	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:93:TYR:CD2	8:H:143:LEU:HB3	2.30	0.66
14:N:41:ASN:OD1	14:N:44:ASN:HB3	1.95	0.66
15:O:408:ILE:O	15:O:409:ASP:HB2	1.95	0.66
15:O:423:ILE:HD13	17:Q:141:TRP:CZ2	2.29	0.66
16:P:104:PHE:CD1	16:P:211:TYR:C	2.69	0.66
17:Q:349:ILE:HD13	17:Q:368:TYR:CD1	2.31	0.66
1:A:86:TYR:H	1:A:431:GLN:HE22	1.42	0.66
1:A:460:LEU:HD11	1:A:467:PHE:CE2	2.29	0.66
2:B:286:ARG:HD3	9:I:9:PHE:CD2	2.29	0.66
2:B:864:ASP:CB	16:P:84:GLN:NE2	2.58	0.66
2:B:916:LYS:NZ	18:R:6:A:P	2.69	0.66
11:K:53:ALA:O	11:K:104:ARG:NH1	2.24	0.66
15:O:275:GLU:CB	15:O:285:MET:HG3	2.25	0.66
15:O:275:GLU:O	15:O:285:MET:N	2.29	0.66
15:O:456:VAL:HB	15:O:463:LEU:HD12	1.77	0.66
15:O:659:LEU:HD13	15:O:659:LEU:N	2.06	0.66
16:P:18:ARG:C	16:P:30:GLN:CG	2.54	0.66
16:P:246:GLU:HG2	16:P:286:LEU:HB2	1.66	0.66
17:Q:248:LYS:CB	17:Q:248:LYS:HZ3	2.06	0.66
17:Q:294:VAL:N	17:Q:295:PRO:HD3	2.09	0.66
17:Q:388:LYS:HE3	17:Q:393:ILE:HA	1.76	0.66
4:D:21:VAL:HG12	7:G:46:TYR:HB3	1.78	0.66
15:O:294:PHE:CD2	15:O:300:LEU:CB	2.78	0.66
15:O:351:ILE:HG13	17:Q:157:MET:HE3	1.77	0.66
15:O:367:SER:O	15:O:368:HIS:HB3	1.95	0.66
15:O:702:LEU:O	15:O:704:LEU:HG	1.96	0.66
16:P:371:GLU:O	16:P:374:THR:CB	2.42	0.66
13:M:10:ILE:O	14:N:70:LEU:N	2.22	0.66
15:O:221:ARG:HG3	15:O:227:LEU:HA	1.75	0.66
15:O:243:LYS:NZ	15:O:301:GLN:HE22	1.88	0.66
15:O:352:PHE:CD2	15:O:355:GLU:HB2	2.31	0.66
15:O:653:SER:HA	15:O:748:GLU:O	1.93	0.66
16:P:246:GLU:HG2	16:P:286:LEU:N	2.09	0.66
17:Q:281:LYS:C	17:Q:301:SER:O	2.34	0.66
17:Q:386:ASP:O	17:Q:390:ASN:HA	1.95	0.66
2:B:811:LEU:HD12	2:B:899:GLN:CA	2.24	0.66
3:C:256:ILE:CD1	3:C:267:VAL:HG22	2.24	0.66
13:M:42:LYS:O	14:N:29:PHE:HA	1.95	0.66
14:N:103:ASN:HA	14:N:132:GLN:NE2	2.11	0.66
15:O:308:ASN:CB	15:O:365:TRP:CE3	2.46	0.66
15:O:421:ILE:HG13	17:Q:138:PHE:HE2	1.59	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:616:SER:O	15:O:617:HIS:C	2.32	0.66
15:O:738:LYS:HG2	15:O:739:ASP:N	2.11	0.66
16:P:144:ILE:C	16:P:147:GLN:NE2	2.48	0.66
16:P:167:LEU:HD21	16:P:234:CYS:SG	2.36	0.66
16:P:208:PRO:CA	16:P:211:TYR:CE2	2.78	0.66
16:P:381:MET:SD	16:P:385:PHE:CD2	2.87	0.66
17:Q:353:VAL:CA	17:Q:358:PHE:CE2	2.71	0.66
17:Q:365:TRP:CD1	17:Q:417:ILE:HG13	2.31	0.66
1:A:1032:VAL:HG22	1:A:1038:ILE:CD1	2.25	0.66
2:B:96:SER:N	2:B:144:SER:O	2.28	0.66
2:B:977:ILE:HD12	2:B:978:ALA:O	1.96	0.66
7:G:15:ARG:HG2	7:G:19:LYS:HD2	1.78	0.66
9:I:2:SER:O	9:I:9:PHE:N	2.29	0.66
13:M:56:GLU:OE2	14:N:23:PHE:HE2	1.77	0.66
15:O:222:GLN:HE22	15:O:225:LEU:HB2	0.57	0.66
15:O:273:ARG:HB2	15:O:287:SER:HG	1.60	0.66
15:O:308:ASN:HA	15:O:365:TRP:CE2	2.29	0.66
15:O:725:VAL:CG1	16:P:452:PHE:HB3	2.22	0.66
16:P:378:LEU:HD21	17:Q:234:LYS:HB3	1.77	0.66
17:Q:131:TYR:O	17:Q:132:GLU:CB	2.34	0.66
1:A:461:GLU:OE2	1:A:1618:THR:HB	1.96	0.66
1:A:757:ASN:OD1	1:A:766:GLU:N	2.28	0.66
2:B:446:MET:HG2	2:B:450:LEU:HD12	1.77	0.66
2:B:894:LYS:HG3	2:B:896:GLN:HE21	1.61	0.66
15:O:23:UNK:C	17:Q:314:TRP:CE3	2.77	0.66
15:O:214:LEU:HD12	15:O:238:LEU:HD12	1.77	0.66
15:O:396:ALA:CB	17:Q:140:ILE:HD12	2.25	0.66
15:O:410:ASP:O	15:O:411:LYS:HB2	1.96	0.66
15:O:569:VAL:HG21	16:P:478:ARG:CA	2.25	0.66
16:P:113:LYS:HA	16:P:116:ILE:HG12	1.76	0.66
16:P:212:VAL:CG1	16:P:215:LEU:CD1	2.70	0.66
16:P:378:LEU:HD22	17:Q:234:LYS:HB3	1.76	0.66
16:P:435:GLN:O	16:P:436:LEU:O	2.13	0.66
1:A:729:LYS:HE2	8:H:119:GLY:O	1.96	0.66
3:C:240:LYS:N	3:C:244:ALA:HB2	2.10	0.66
7:G:166:TRP:CE3	7:G:219:ASP:HA	2.31	0.66
14:N:70:LEU:CG	14:N:72:VAL:HG13	2.26	0.66
15:O:727:PRO:HG2	16:P:264:PRO:HB2	1.78	0.66
16:P:16:PRO:HA	16:P:18:ARG:HH22	1.61	0.66
16:P:386:LEU:HG	16:P:387:PRO:N	2.11	0.66
17:Q:212:HIS:O	17:Q:215:THR:N	2.29	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:246:GLN:HG2	17:Q:248:LYS:HG2	1.78	0.66
1:A:76:GLN:HG3	1:A:362:VAL:O	1.95	0.65
1:A:1491:GLU:OE2	1:A:1494:ARG:NH2	2.29	0.65
2:B:709:PHE:CE2	2:B:992:PRO:HG3	2.31	0.65
13:M:15:VAL:CG2	13:M:90:LEU:HD12	2.19	0.65
15:O:310:TRP:CH2	15:O:370:GLN:NE2	2.64	0.65
15:O:672:ILE:N	15:O:673:PRO:HD2	2.11	0.65
16:P:146:ASP:O	16:P:148:PRO:HD2	1.94	0.65
16:P:169:SER:OG	16:P:175:PRO:CD	2.43	0.65
17:Q:33:ARG:HH12	17:Q:36:LYS:CD	1.96	0.65
1:A:35:PRO:HA	1:A:390:LEU:CD1	2.26	0.65
1:A:398:ASP:O	1:A:401:ASP:HB3	1.96	0.65
2:B:95:LEU:CD2	2:B:440:PHE:CE2	2.79	0.65
2:B:242:ASP:OD2	2:B:414:LYS:NZ	2.26	0.65
7:G:143:SER:O	7:G:159:LYS:N	2.28	0.65
15:O:259:ASN:OD1	15:O:260:LEU:HD12	1.96	0.65
15:O:308:ASN:HA	15:O:365:TRP:CE3	2.30	0.65
15:O:428:GLU:CB	15:O:435:ARG:CG	2.70	0.65
15:O:529:GLU:HG2	15:O:530:ASN:H	1.61	0.65
16:P:64:THR:C	16:P:66:ALA:H	1.98	0.65
16:P:403:THR:HG21	16:P:405:ASP:CB	2.12	0.65
1:A:439:ASP:OD1	1:A:458:GLN:NE2	2.26	0.65
1:A:799:GLU:HG2	1:A:1062:HIS:CG	2.32	0.65
2:B:1002:LYS:HE2	14:N:166:LEU:HD12	1.77	0.65
2:B:1105:ARG:HB2	2:B:1196:LEU:HD21	1.71	0.65
10:J:7:CYS:HA	10:J:49:MET:HE3	1.77	0.65
13:M:81:PHE:HB2	13:M:88:ILE:HG22	1.78	0.65
15:O:722:TRP:HZ2	16:P:262:LEU:CD1	2.07	0.65
1:A:40:ASN:HB3	1:A:43:HIS:HD2	1.59	0.65
1:A:874:GLU:OE2	1:A:878:ARG:NE	2.29	0.65
1:A:1074:TYR:O	1:A:1078:LYS:HG2	1.95	0.65
2:B:1127:CYS:HA	2:B:1163:GLN:O	1.96	0.65
7:G:37:CYS:HB3	7:G:126:GLN:C	2.16	0.65
9:I:28:VAL:O	9:I:37:TYR:N	2.29	0.65
13:M:89:GLN:HE22	14:N:39:PRO:HD2	1.60	0.65
15:O:186:TYR:HA	15:O:201:GLU:HB3	1.78	0.65
15:O:237:GLU:OE2	15:O:239:HIS:HE1	1.66	0.65
15:O:273:ARG:HH11	15:O:274:ILE:CG2	2.08	0.65
16:P:119:LEU:HD21	16:P:165:LEU:HD11	1.75	0.65
16:P:378:LEU:HD11	17:Q:234:LYS:O	1.96	0.65
17:Q:134:PRO:HA	17:Q:140:ILE:HD11	1.78	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:18:ILE:HG23	2:B:1186:ASP:OD2	1.97	0.65
15:O:15:UNK:C	15:O:20:UNK:CB	2.70	0.65
15:O:178:VAL:CG2	15:O:360:TRP:HB3	2.22	0.65
15:O:302:VAL:O	15:O:303:VAL:HB	1.96	0.65
15:O:326:ILE:CB	15:O:344:ILE:HD13	2.24	0.65
15:O:501:PRO:HG2	15:O:567:ILE:HB	1.78	0.65
15:O:573:GLU:OE1	15:O:573:GLU:N	2.28	0.65
16:P:360:LYS:N	16:P:361:PRO:CD	2.58	0.65
1:A:59:ARG:NH2	16:P:7:GLY:CA	2.57	0.65
1:A:68:ASP:OD1	1:A:69:GLU:N	2.30	0.65
2:B:161:LEU:HG	2:B:409:TYR:OH	1.96	0.65
3:C:329:LYS:HE3	11:K:122:LYS:NZ	2.11	0.65
8:H:15:VAL:HA	8:H:26:ILE:CD1	2.25	0.65
8:H:104:PHE:HE1	8:H:114:VAL:HG13	1.61	0.65
8:H:111:LEU:CD2	8:H:128:ASN:HB3	2.21	0.65
15:O:264:ILE:CG2	15:O:302:VAL:HB	2.27	0.65
16:P:82:GLN:NE2	16:P:86:ARG:HH21	1.94	0.65
16:P:95:LEU:HD13	16:P:100:ALA:HB2	1.73	0.65
16:P:330:TRP:NE1	16:P:452:PHE:HD1	1.93	0.65
17:Q:140:ILE:HG22	17:Q:142:ARG:HD3	1.77	0.65
17:Q:267:GLY:O	17:Q:271:LEU:N	2.25	0.65
17:Q:358:PHE:CD2	17:Q:365:TRP:HH2	2.13	0.65
1:A:360:LEU:HD11	2:B:1184:TYR:CZ	2.32	0.65
1:A:381:SER:O	1:A:453:ILE:HD12	1.96	0.65
1:A:722:PRO:O	1:A:723:TYR:HB2	1.97	0.65
1:A:1020:GLN:O	1:A:1024:THR:OG1	2.08	0.65
2:B:848:ILE:HD11	2:B:883:GLU:O	1.97	0.65
2:B:1061:LYS:HE3	16:P:45:GLU:OE1	1.97	0.65
3:C:48:ASP:HB3	3:C:51:GLU:HG2	1.78	0.65
13:M:43:LYS:HE2	13:M:45:LYS:HD3	1.74	0.65
15:O:254:ILE:HG22	15:O:255:GLY:N	2.12	0.65
15:O:315:PHE:CB	15:O:317:ILE:HD11	2.25	0.65
15:O:391:THR:CG2	15:O:393:VAL:HG13	2.27	0.65
16:P:13:ASP:CB	16:P:33:HIS:HE1	2.10	0.65
1:A:1019:LEU:CD2	1:A:1222:LEU:HD23	2.19	0.65
1:A:1297:PHE:O	1:A:1468:LYS:HD2	1.95	0.65
2:B:1062:GLY:CA	20:T:19:DC:OP2	2.21	0.65
6:F:101:ILE:HD11	6:F:124:GLU:OE1	1.96	0.65
11:K:89:CYS:SG	11:K:105:ILE:HG13	2.36	0.65
15:O:271:ILE:HB	15:O:289:SER:OG	1.97	0.65
15:O:499:GLU:HG3	15:O:500:ILE:N	2.07	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:205:ILE:C	16:P:207:LEU:N	2.37	0.65
16:P:287:TRP:CZ3	16:P:290:THR:HG23	2.31	0.65
16:P:344:THR:HG1	16:P:438:PHE:N	1.95	0.65
17:Q:155:GLN:O	17:Q:155:GLN:HG2	1.94	0.65
2:B:571:ALA:HA	14:N:57:LYS:HZ3	1.61	0.65
2:B:1117:VAL:HB	2:B:1153:ILE:HG23	1.79	0.65
2:B:1126:VAL:HB	2:B:1166:LYS:HE3	1.79	0.65
7:G:98:GLU:O	7:G:98:GLU:OE1	2.15	0.65
7:G:167:THR:CG2	7:G:218:VAL:HB	2.25	0.65
15:O:353:ASP:O	17:Q:28:SER:N	2.30	0.65
16:P:95:LEU:CB	16:P:99:GLU:OE2	2.43	0.65
16:P:234:CYS:O	16:P:238:HIS:N	2.29	0.65
16:P:337:SER:CB	16:P:448:LYS:HD3	2.27	0.65
16:P:354:LYS:CE	16:P:362:THR:HG22	2.26	0.65
16:P:355:VAL:HG11	17:Q:215:THR:HG21	1.78	0.65
1:A:214:ASP:HB2	1:A:1605:THR:CG2	2.27	0.65
1:A:1090:ASP:HB3	1:A:1132:TYR:HD1	1.59	0.65
1:A:1101:THR:O	1:A:1105:ARG:HG3	1.97	0.65
6:F:127:GLU:HB3	6:F:129:LYS:NZ	2.12	0.65
15:O:17:UNK:O	15:O:19:UNK:N	2.29	0.65
15:O:227:LEU:HD12	15:O:549:TYR:CE1	2.32	0.65
15:O:339:ARG:HG3	15:O:340:LYS:H	1.62	0.65
15:O:472:ARG:CD	17:Q:200:THR:HG21	2.26	0.65
15:O:599:LYS:HZ1	16:P:275:GLU:CD	2.00	0.65
16:P:96:ILE:CB	16:P:209:ASN:HD21	2.11	0.65
16:P:198:ILE:HG22	16:P:199:LEU:HG	1.77	0.65
17:Q:264:SER:C	17:Q:265:SER:OG	2.35	0.65
1:A:377:VAL:HG23	16:P:58:ARG:H	1.62	0.64
1:A:1298:ASP:OD1	1:A:1299:ASN:N	2.29	0.64
1:A:1641:ILE:HD13	2:B:1076:ARG:HD2	1.78	0.64
2:B:322:ASN:HB3	13:M:105:SER:HA	1.77	0.64
7:G:37:CYS:O	7:G:126:GLN:HG2	1.97	0.64
8:H:115:TYR:CE2	8:H:124:ARG:HG3	2.32	0.64
13:M:39:ASP:O	13:M:53:LEU:HD12	1.97	0.64
14:N:72:VAL:HB	14:N:137:PHE:CZ	2.31	0.64
14:N:78:THR:HB	14:N:89:ILE:HB	1.79	0.64
15:O:396:ALA:O	15:O:397:LYS:HB2	1.96	0.64
15:O:653:SER:CB	15:O:748:GLU:C	2.58	0.64
15:O:698:LYS:HB3	16:P:125:PHE:CE1	2.31	0.64
15:O:749:LYS:N	15:O:750:PRO:HD3	2.12	0.64
16:P:156:LEU:O	16:P:160:SER:HB3	1.94	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:256:LEU:O	16:P:259:GLN:HB3	1.97	0.64
16:P:360:LYS:HG3	16:P:363:SER:HB3	1.79	0.64
16:P:490:ASP:C	16:P:491:PHE:CD1	2.71	0.64
17:Q:149:LYS:HB2	17:Q:149:LYS:NZ	2.10	0.64
17:Q:153:ASN:O	17:Q:156:LYS:HE3	1.97	0.64
17:Q:207:ASN:OD1	19:S:13:DA:P	2.55	0.64
17:Q:266:SER:CB	17:Q:268:LEU:HD12	2.27	0.64
17:Q:354:LEU:CA	17:Q:358:PHE:HB2	2.27	0.64
1:A:59:ARG:CZ	16:P:7:GLY:HA2	2.27	0.64
1:A:752:LYS:O	1:A:785:GLN:NE2	2.30	0.64
2:B:613:VAL:HG12	2:B:660:LYS:CE	2.25	0.64
3:C:135:SER:OG	3:C:205:LYS:HG3	1.97	0.64
7:G:140:GLN:NE2	7:G:225:ILE:HG13	2.12	0.64
7:G:169:VAL:CG2	7:G:218:VAL:HG23	2.27	0.64
8:H:56:THR:HB	8:H:145:ARG:HB3	1.78	0.64
9:I:34:LYS:H	13:M:59:ARG:CZ	2.10	0.64
11:K:46:LYS:O	11:K:66:VAL:HG22	1.96	0.64
14:N:35:LEU:CG	14:N:115:SER:HA	2.27	0.64
15:O:237:GLU:O	15:O:238:LEU:HD23	1.98	0.64
15:O:274:ILE:HG23	15:O:274:ILE:O	1.97	0.64
15:O:693:PHE:CD2	15:O:746:ARG:HB2	2.31	0.64
15:O:722:TRP:O	15:O:726:SER:CB	2.34	0.64
15:O:727:PRO:CD	16:P:264:PRO:HB2	2.27	0.64
16:P:378:LEU:HD12	17:Q:235:ILE:HD13	1.78	0.64
17:Q:33:ARG:HG3	17:Q:33:ARG:HH21	1.62	0.64
17:Q:372:HIS:CE1	17:Q:407:HIS:NE2	2.65	0.64
7:G:74:ASN:CB	7:G:77:VAL:HG22	2.22	0.64
15:O:405:TYR:HE2	15:O:414:ILE:HG23	1.61	0.64
15:O:437:SER:HB2	15:O:489:PHE:CE2	2.32	0.64
15:O:472:ARG:HD2	17:Q:200:THR:CG2	2.26	0.64
16:P:338:LEU:O	16:P:339:THR:O	2.14	0.64
1:A:18:ILE:HD12	1:A:354:SER:HB3	1.77	0.64
1:A:646:GLU:OE1	2:B:1087:LEU:N	2.30	0.64
3:C:242:GLU:OE2	3:C:245:ARG:NH2	2.31	0.64
13:M:55:GLY:N	13:M:62:TYR:O	2.28	0.64
15:O:353:ASP:HA	17:Q:28:SER:HA	1.78	0.64
15:O:423:ILE:CG2	17:Q:141:TRP:CH2	2.36	0.64
15:O:474:LYS:HE2	15:O:498:LEU:HG	1.79	0.64
15:O:586:LYS:HZ2	16:P:322:ARG:HH22	1.44	0.64
16:P:104:PHE:CB	16:P:211:TYR:HB2	2.27	0.64
16:P:147:GLN:H	16:P:147:GLN:CD	1.98	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:247:ILE:HG21	16:P:302:ALA:HB3	0.65	0.64
16:P:417:PHE:HZ	17:Q:270:PHE:CE2	1.83	0.64
1:A:865:ASP:OD1	1:A:866:LYS:N	2.31	0.64
1:A:1262:LEU:HB2	1:A:1265:GLU:HG3	1.78	0.64
2:B:164:MET:HB2	2:B:194:PHE:HE1	1.62	0.64
2:B:438:ILE:HD11	2:B:442:ASP:CB	2.27	0.64
7:G:167:THR:N	7:G:218:VAL:O	2.26	0.64
10:J:44:TYR:HA	10:J:47:ARG:HB2	1.78	0.64
15:O:356:GLU:CA	17:Q:24:ILE:HD11	2.28	0.64
15:O:414:ILE:CD1	15:O:425:GLY:HA3	2.24	0.64
15:O:475:ARG:HG3	15:O:497:VAL:C	2.12	0.64
15:O:627:GLY:O	15:O:630:LEU:HG	1.98	0.64
15:O:702:LEU:CD1	16:P:174:LEU:CB	2.74	0.64
15:O:714:PHE:HE2	15:O:741:ILE:HD13	1.63	0.64
16:P:119:LEU:HD21	16:P:190:MET:CE	2.28	0.64
16:P:209:ASN:N	16:P:211:TYR:CZ	2.65	0.64
16:P:401:GLU:O	16:P:402:MET:C	2.35	0.64
17:Q:283:ARG:CA	17:Q:302:ARG:HB2	2.14	0.64
1:A:2:ASP:OD2	1:A:4:SER:HB2	1.98	0.64
1:A:58:LEU:CD2	16:P:62:LEU:O	2.46	0.64
1:A:332:GLN:NE2	1:A:350:VAL:H	1.95	0.64
1:A:725:LEU:HD12	8:H:46:LEU:HD21	1.79	0.64
1:A:912:VAL:HB	1:A:913:PRO:HD2	0.74	0.64
2:B:823:GLN:HG2	2:B:863:ASP:CB	2.26	0.64
3:C:332:PRO:HD3	11:K:42:PRO:HB3	1.79	0.64
15:O:412:ASN:O	15:O:426:ALA:HB1	1.97	0.64
15:O:615:ASN:OD1	15:O:617:HIS:CD2	2.50	0.64
15:O:726:SER:HB2	15:O:727:PRO:HD2	1.78	0.64
1:A:1508:VAL:HG22	1:A:1520:VAL:O	1.97	0.64
2:B:96:SER:O	2:B:144:SER:N	2.30	0.64
2:B:832:TRP:CZ3	2:B:834:LYS:HA	2.33	0.64
8:H:104:PHE:CE1	8:H:114:VAL:HG13	2.32	0.64
15:O:244:SER:OG	15:O:264:ILE:HD12	1.98	0.64
15:O:321:LYS:O	15:O:348:HIS:NE2	2.31	0.64
15:O:389:TRP:CZ3	17:Q:147:GLN:C	2.71	0.64
15:O:707:ASP:C	15:O:709:PRO:HD3	2.17	0.64
16:P:208:PRO:O	16:P:211:TYR:CZ	2.50	0.64
16:P:246:GLU:O	16:P:285:THR:CA	2.44	0.64
16:P:257:VAL:HG11	16:P:263:PRO:HD2	1.75	0.64
16:P:330:TRP:CZ3	16:P:334:LEU:HD11	2.29	0.64
17:Q:358:PHE:CE2	17:Q:365:TRP:CZ3	2.85	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:683:LYS:HD2	8:H:20:TYR:CE2	2.33	0.64
1:A:729:LYS:HG2	1:A:776:LEU:HD23	1.79	0.64
7:G:163:PRO:HD2	7:G:166:TRP:CD1	2.32	0.64
14:N:54:TRP:CD1	14:N:135:LYS:HB2	2.33	0.64
15:O:302:VAL:O	15:O:320:ILE:HG13	1.97	0.64
16:P:93:LYS:CB	16:P:207:LEU:HB3	2.27	0.64
16:P:416:ILE:N	16:P:418:PRO:HD3	2.13	0.64
17:Q:353:VAL:C	17:Q:358:PHE:HD2	2.00	0.64
1:A:35:PRO:HA	1:A:390:LEU:HD13	1.78	0.64
1:A:35:PRO:HB3	1:A:390:LEU:HB3	1.79	0.64
1:A:326:THR:HG23	1:A:329:ARG:NH2	2.12	0.64
1:A:1104:TYR:CE2	1:A:1117:SER:HA	2.33	0.64
1:A:1312:GLU:O	1:A:1316:VAL:HG12	1.98	0.64
2:B:456:ASN:ND2	2:B:459:SER:OG	2.31	0.64
3:C:295:ARG:O	3:C:298:PHE:HE1	1.81	0.64
9:I:36:ILE:O	9:I:39:LYS:CD	2.46	0.64
9:I:38:PRO:O	9:I:41:GLN:N	2.31	0.64
10:J:43:ARG:O	10:J:47:ARG:HG2	1.97	0.64
14:N:26:PRO:CB	14:N:29:PHE:CD2	2.80	0.64
15:O:350:THR:O	15:O:352:PHE:CD1	2.50	0.64
15:O:623:LEU:HD11	15:O:668:SER:C	2.18	0.64
16:P:150:GLU:O	16:P:152:LEU:HD22	1.96	0.64
16:P:184:TRP:CH2	16:P:192:TYR:CD2	2.86	0.64
16:P:341:ARG:CB	16:P:445:ARG:NH2	2.58	0.64
17:Q:247:ILE:C	17:Q:250:LEU:HB2	2.17	0.64
1:A:402:ASP:O	1:A:406:LEU:CB	2.46	0.64
1:A:529:LYS:HG2	1:A:530:TRP:H	1.63	0.64
1:A:689:ARG:NH1	8:H:81:PRO:HG3	2.13	0.64
2:B:817:ARG:HG3	19:S:26:DT:H5'	0.67	0.64
2:B:1057:MET:HE2	16:P:41:PHE:CZ	2.29	0.64
3:C:146:ALA:CB	3:C:155:GLU:HG2	2.28	0.64
15:O:194:ARG:CG	15:O:197:ARG:CZ	2.76	0.64
15:O:433:VAL:HG21	17:Q:144:VAL:HG13	1.79	0.64
15:O:574:TRP:CH2	16:P:484:ALA:HB1	2.33	0.64
15:O:656:HIS:CB	15:O:747:LEU:O	2.38	0.64
16:P:235:GLY:CA	16:P:289:ARG:HB3	2.08	0.64
20:T:21:DT:O3'	20:T:22:DG:H4'	1.97	0.64
1:A:378:HIS:ND1	16:P:52:GLY:O	2.31	0.63
3:C:335:GLN:HG2	11:K:49:LEU:HB3	1.80	0.63
5:E:13:TRP:CZ3	5:E:39:LEU:HB2	2.33	0.63
7:G:75:ASN:OD1	7:G:76:LYS:N	2.31	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:178:VAL:HG22	15:O:360:TRP:CB	2.22	0.63
15:O:194:ARG:CA	15:O:197:ARG:CZ	2.64	0.63
15:O:202:ILE:CG2	15:O:216:ILE:HG23	2.27	0.63
15:O:420:GLU:HA	15:O:442:LEU:HD11	1.79	0.63
16:P:28:THR:CG2	16:P:29:CYS:H	2.10	0.63
16:P:281:ILE:O	16:P:281:ILE:HG12	1.97	0.63
16:P:366:TYR:CE1	17:Q:215:THR:CA	2.56	0.63
16:P:378:LEU:HD22	17:Q:234:LYS:HD3	1.79	0.63
1:A:1095:LEU:O	1:A:1098:SER:HB2	1.98	0.63
2:B:460:LYS:HE2	20:T:27:DA:OP2	1.98	0.63
5:E:47:CYS:HB3	5:E:51:GLY:HA2	1.80	0.63
7:G:237:HIS:O	7:G:244:SER:N	2.23	0.63
13:M:43:LYS:HZ1	13:M:45:LYS:HD2	1.63	0.63
14:N:96:GLU:OE2	14:N:105:SER:CB	2.35	0.63
15:O:702:LEU:HG	16:P:125:PHE:HZ	1.04	0.63
15:O:715:TYR:HE1	15:O:734:LYS:CD	2.06	0.63
17:Q:158:THR:HG23	17:Q:161:ASN:CB	2.27	0.63
17:Q:394:GLY:O	17:Q:396:ASP:N	2.32	0.63
1:A:1097:TYR:O	1:A:1101:THR:HG23	1.99	0.63
2:B:184:LYS:HB3	2:B:735:HIS:ND1	2.12	0.63
15:O:212:SER:O	15:O:242:ILE:HD11	1.98	0.63
15:O:214:LEU:CB	15:O:236:ILE:CB	2.77	0.63
16:P:6:ARG:N	16:P:71:GLN:HE22	1.95	0.63
16:P:19:LEU:CD2	16:P:21:ARG:HG2	2.25	0.63
16:P:332:LEU:HD12	16:P:332:LEU:C	2.18	0.63
17:Q:304:HIS:O	17:Q:305:THR:C	2.36	0.63
1:A:406:LEU:HD12	1:A:416:ARG:NE	2.13	0.63
1:A:406:LEU:HD11	1:A:416:ARG:HG3	1.81	0.63
1:A:612:LYS:N	2:B:913:ILE:HD11	2.13	0.63
2:B:95:LEU:HD23	2:B:440:PHE:CE2	2.33	0.63
2:B:151:ASN:O	2:B:152:LEU:HD12	1.98	0.63
5:E:129:PRO:O	5:E:130:ALA:HB2	1.98	0.63
10:J:9:SER:HB2	10:J:45:CYS:CB	2.28	0.63
13:M:74:ASN:HD21	14:N:57:LYS:HB3	1.63	0.63
15:O:323:ASN:C	15:O:348:HIS:HB2	2.19	0.63
15:O:384:ASP:CB	15:O:389:TRP:HB3	2.13	0.63
16:P:257:VAL:HG12	16:P:262:LEU:CA	2.25	0.63
16:P:357:TYR:HB3	17:Q:211:ARG:CZ	1.98	0.63
16:P:357:TYR:N	17:Q:211:ARG:HD2	2.13	0.63
17:Q:206:ARG:HD2	17:Q:211:ARG:HH21	0.56	0.63
1:A:58:LEU:HD22	16:P:62:LEU:CA	2.28	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:864:ASP:HB3	16:P:84:GLN:HE22	1.63	0.63
5:E:197:LYS:HA	5:E:211:TYR:HD1	1.64	0.63
15:O:247:ILE:O	15:O:247:ILE:HG22	1.99	0.63
15:O:398:ALA:HA	17:Q:128:TRP:CZ3	2.34	0.63
15:O:475:ARG:HD2	16:P:367:PHE:HE2	1.57	0.63
16:P:209:ASN:N	16:P:211:TYR:CE1	2.66	0.63
16:P:357:TYR:CB	17:Q:211:ARG:CD	2.53	0.63
17:Q:31:PHE:CA	17:Q:34:ILE:CG2	2.50	0.63
17:Q:282:SER:O	17:Q:302:ARG:HB2	1.98	0.63
1:A:1019:LEU:HD21	1:A:1222:LEU:CD2	2.17	0.63
2:B:632:SER:HB2	2:B:635:GLY:HA3	1.80	0.63
5:E:128:PRO:CB	5:E:129:PRO:CD	2.66	0.63
7:G:48:SER:HA	7:G:115:PHE:HD1	1.62	0.63
7:G:73:TYR:HA	7:G:80:VAL:HA	1.80	0.63
13:M:42:LYS:HG3	13:M:51:PHE:CE1	2.29	0.63
15:O:308:ASN:CA	15:O:365:TRP:CZ2	2.82	0.63
15:O:380:MET:HE1	15:O:434:ARG:NH2	2.13	0.63
15:O:454:GLN:O	15:O:465:VAL:HG22	1.98	0.63
16:P:328:LEU:CD1	16:P:472:ARG:HB3	2.29	0.63
16:P:354:LYS:HB3	16:P:362:THR:CB	2.28	0.63
16:P:381:MET:HE1	16:P:385:PHE:HE2	0.79	0.63
17:Q:274:MET:O	17:Q:277:ILE:HG22	1.98	0.63
17:Q:384:VAL:N	17:Q:388:LYS:O	2.32	0.63
1:A:15:ASP:OD1	1:A:1631:ARG:HB2	1.99	0.63
1:A:89:LEU:HD23	1:A:90:PHE:CE1	2.34	0.63
1:A:721:LYS:HG3	1:A:722:PRO:HD3	1.78	0.63
2:B:819:ASP:HB3	2:B:820:PRO:HD3	1.79	0.63
5:E:45:LYS:HD2	5:E:46:TYR:CE2	2.33	0.63
8:H:93:TYR:HD2	8:H:143:LEU:HB3	1.61	0.63
15:O:357:LEU:HD22	15:O:358:SER:OG	1.99	0.63
15:O:499:GLU:CG	15:O:500:ILE:HD12	2.29	0.63
15:O:656:HIS:CG	15:O:747:LEU:CA	2.81	0.63
15:O:702:LEU:HD11	16:P:174:LEU:CB	2.27	0.63
16:P:14:ASN:O	16:P:16:PRO:HD3	1.99	0.63
16:P:80:LEU:O	16:P:83:GLN:N	2.31	0.63
16:P:296:GLY:O	16:P:298:VAL:N	2.32	0.63
16:P:343:THR:OG1	16:P:347:SER:N	2.31	0.63
16:P:442:LEU:HD11	16:P:446:TYR:CE2	2.33	0.63
17:Q:10:ASN:O	17:Q:10:ASN:ND2	2.30	0.63
1:A:334:VAL:O	1:A:338:VAL:HG23	1.99	0.63
2:B:186:GLU:O	2:B:188:ASP:N	2.32	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:85:SER:HB3	7:G:71:MET:CG	2.29	0.63
5:E:88:VAL:N	5:E:115:ASN:O	2.28	0.63
9:I:28:VAL:O	9:I:36:ILE:HA	1.99	0.63
15:O:276:SER:HA	15:O:284:VAL:HA	1.81	0.63
15:O:511:ILE:O	15:O:512:LEU:HB3	1.98	0.63
15:O:775:TRP:CZ3	16:P:134:LYS:HE2	2.34	0.63
16:P:93:LYS:HD2	16:P:207:LEU:CD2	2.27	0.63
16:P:406:GLN:O	16:P:410:ARG:HG3	1.99	0.63
17:Q:410:TYR:CZ	17:Q:414:PHE:CZ	2.87	0.63
1:A:62:CYS:HB3	1:A:65:CYS:SG	2.39	0.63
1:A:1262:LEU:CD2	1:A:1497:ILE:HG22	2.28	0.63
1:A:1476:LEU:CB	1:A:1480:THR:HG21	2.15	0.63
1:A:1486:VAL:HG11	9:I:50:THR:O	1.99	0.63
2:B:782:ASP:O	2:B:950:ASN:ND2	2.25	0.63
4:D:21:VAL:HG12	7:G:46:TYR:CB	2.29	0.63
4:D:89:LEU:HA	4:D:92:ILE:HD12	1.81	0.63
8:H:80:ARG:NH2	8:H:83:GLN:HE22	1.97	0.63
13:M:54:HIS:CD2	13:M:63:GLU:HG2	2.30	0.63
15:O:375:PHE:HD1	15:O:380:MET:C	2.01	0.63
16:P:118:TRP:HH2	16:P:189:LYS:CE	2.03	0.63
16:P:167:LEU:HD23	16:P:239:PHE:CD2	2.33	0.63
1:A:588:LEU:HD22	2:B:1087:LEU:HD21	1.81	0.62
2:B:186:GLU:OE2	2:B:731:VAL:N	2.28	0.62
2:B:949:ILE:HD12	2:B:1033:TYR:OH	1.98	0.62
10:J:10:CYS:HB3	10:J:45:CYS:SG	2.38	0.62
13:M:78:VAL:O	13:M:91:TYR:N	2.28	0.62
15:O:433:VAL:HB	17:Q:144:VAL:HG11	0.65	0.62
1:A:499:PRO:HD3	1:A:608:LEU:O	1.98	0.62
15:O:194:ARG:HB3	15:O:194:ARG:NH1	2.14	0.62
15:O:310:TRP:HA	15:O:368:HIS:CE1	2.35	0.62
16:P:497:GLN:O	16:P:501:CYS:N	2.21	0.62
17:Q:294:VAL:N	17:Q:295:PRO:HD2	2.14	0.62
1:A:379:GLU:N	16:P:54:GLY:C	2.52	0.62
1:A:415:ASP:C	1:A:417:ARG:N	2.37	0.62
1:A:1640:ARG:NH2	1:A:1648:ASN:HB2	2.13	0.62
2:B:90:TYR:O	2:B:91:LEU:O	2.17	0.62
2:B:218:ILE:HG13	2:B:218:ILE:O	2.00	0.62
2:B:240:ARG:HB2	2:B:242:ASP:OD1	1.99	0.62
2:B:429:ARG:O	2:B:432:ILE:HG12	1.99	0.62
2:B:820:PRO:O	2:B:821:ILE:O	2.18	0.62
2:B:864:ASP:HB3	16:P:84:GLN:NE2	2.14	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1107:CYS:CB	2:B:1130:ARG:HE	2.08	0.62
14:N:111:VAL:N	14:N:120:LYS:O	2.24	0.62
15:O:261:VAL:HG12	15:O:262:GLY:N	2.14	0.62
15:O:366:PHE:HB2	15:O:373:LEU:CD1	2.29	0.62
15:O:705:HIS:NE2	15:O:709:PRO:HD3	2.14	0.62
16:P:150:GLU:CD	16:P:150:GLU:C	2.57	0.62
16:P:354:LYS:CG	16:P:362:THR:CB	2.77	0.62
17:Q:33:ARG:C	17:Q:35:SER:N	2.52	0.62
17:Q:149:LYS:O	17:Q:151:PRO:CD	2.33	0.62
1:A:62:CYS:HB2	1:A:72:CYS:SG	2.33	0.62
2:B:114:SER:O	2:B:115:SER:HB2	1.99	0.62
2:B:1126:VAL:CA	2:B:1166:LYS:HE3	2.30	0.62
3:C:224:THR:HB	3:C:303:GLU:OE2	1.98	0.62
8:H:15:VAL:HG13	8:H:26:ILE:HD11	1.81	0.62
15:O:428:GLU:CG	15:O:435:ARG:CG	2.78	0.62
15:O:581:ALA:HB3	15:O:585:GLU:CG	2.30	0.62
15:O:582:ASP:O	15:O:586:LYS:HB3	1.99	0.62
16:P:9:ILE:HD11	16:P:16:PRO:HB3	1.81	0.62
16:P:137:TRP:NE1	16:P:141:LEU:HD21	2.14	0.62
16:P:225:GLN:HA	16:P:225:GLN:NE2	2.13	0.62
16:P:257:VAL:CG1	16:P:262:LEU:HA	2.29	0.62
16:P:494:SER:HG	16:P:497:GLN:N	1.97	0.62
17:Q:153:ASN:O	17:Q:156:LYS:CG	2.48	0.62
1:A:56:ALA:HB3	1:A:69:GLU:HA	1.81	0.62
1:A:250:LYS:HD3	1:A:428:VAL:HG21	1.81	0.62
1:A:340:HIS:CD2	1:A:344:ASN:HB2	2.34	0.62
1:A:755:ILE:HD13	1:A:780:ILE:HD11	1.80	0.62
1:A:968:SER:OG	1:A:993:GLN:NE2	2.33	0.62
2:B:116:ALA:O	2:B:117:VAL:O	2.16	0.62
2:B:733:LEU:HD22	2:B:741:LEU:HD13	1.81	0.62
2:B:817:ARG:HG3	19:S:26:DT:H5”	1.70	0.62
2:B:1103:VAL:CB	2:B:1110:ILE:HG22	2.25	0.62
2:B:1138:ALA:C	2:B:1140:LYS:N	2.52	0.62
4:D:31:VAL:HG11	7:G:123:TYR:HE1	1.64	0.62
13:M:12:ILE:N	14:N:69:SER:HA	2.15	0.62
14:N:82:ILE:O	14:N:85:HIS:HB2	1.99	0.62
14:N:131:LEU:C	14:N:131:LEU:HD12	2.19	0.62
15:O:214:LEU:HD13	15:O:263:ILE:CD1	2.26	0.62
15:O:302:VAL:HA	15:O:320:ILE:HG13	1.79	0.62
15:O:469:TYR:HB3	15:O:476:ILE:CD1	2.30	0.62
15:O:657:SER:O	15:O:658:LYS:CG	2.47	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:198:ILE:CB	16:P:200:PRO:HG3	2.28	0.62
16:P:260:CYS:O	16:P:262:LEU:N	2.27	0.62
16:P:355:VAL:HG11	17:Q:215:THR:CG2	2.30	0.62
16:P:356:VAL:O	17:Q:211:ARG:NE	2.32	0.62
17:Q:207:ASN:CG	19:S:13:DA:P	2.76	0.62
1:A:332:GLN:HE22	1:A:350:VAL:N	1.97	0.62
1:A:1276:THR:OG1	9:I:45:LEU:HB2	2.00	0.62
2:B:21:ARG:HD3	2:B:763:ASP:OD2	1.99	0.62
2:B:606:ASP:OD2	14:N:145:ILE:HD13	2.00	0.62
2:B:1084:THR:HG23	2:B:1084:THR:O	1.99	0.62
7:G:93:ASP:OD1	7:G:94:PRO:HD2	2.00	0.62
11:K:59:THR:O	11:K:60:SER:OG	2.15	0.62
14:N:78:THR:O	14:N:89:ILE:HG13	1.99	0.62
15:O:215:ASN:HA	15:O:236:ILE:HG12	1.80	0.62
15:O:264:ILE:HG13	15:O:305:PHE:HE2	1.62	0.62
15:O:380:MET:N	15:O:394:VAL:CG2	2.62	0.62
16:P:23:ILE:H	16:P:23:ILE:HD12	1.64	0.62
16:P:172:LEU:HD23	16:P:172:LEU:C	2.20	0.62
16:P:283:ASN:OD1	16:P:283:ASN:N	2.32	0.62
16:P:359:ASP:OD1	16:P:361:PRO:HD3	1.98	0.62
17:Q:29:ARG:CA	17:Q:32:ASP:OD1	2.47	0.62
17:Q:393:ILE:HG12	17:Q:395:LEU:HB2	1.80	0.62
1:A:594:THR:CG2	2:B:1075:GLU:HG2	2.30	0.62
1:A:1617:THR:HG22	20:T:12:DG:C4'	2.30	0.62
1:A:1646:LEU:HA	2:B:1089:GLN:OE1	1.98	0.62
2:B:1057:MET:HE1	16:P:41:PHE:CZ	2.25	0.62
3:C:242:GLU:O	3:C:246:ARG:HB2	1.99	0.62
8:H:111:LEU:HA	8:H:128:ASN:HA	1.82	0.62
15:O:172:PHE:CE1	17:Q:186:LEU:HB2	2.33	0.62
15:O:422:ILE:HG13	15:O:440:HIS:CD2	2.33	0.62
15:O:724:LEU:O	15:O:726:SER:N	2.32	0.62
2:B:139:LEU:HD12	2:B:139:LEU:O	1.98	0.62
2:B:1126:VAL:C	2:B:1166:LYS:HE3	2.20	0.62
5:E:83:CYS:O	5:E:113:GLN:HG3	1.98	0.62
5:E:172:GLU:HB3	5:E:213:ILE:HD11	1.80	0.62
7:G:74:ASN:OD1	7:G:76:LYS:N	2.30	0.62
7:G:110:ASP:CG	7:G:111:THR:HG23	2.20	0.62
8:H:10:PHE:CE1	8:H:30:SER:HB2	2.35	0.62
8:H:17:PRO:HA	8:H:24:CYS:SG	2.40	0.62
14:N:87:TYR:CE1	14:N:141:GLU:HG3	2.33	0.62
15:O:214:LEU:C	15:O:236:ILE:HG12	2.15	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:298:ASP:CG	17:Q:159:TYR:N	2.51	0.62
15:O:373:LEU:HB3	15:O:375:PHE:HZ	1.61	0.62
15:O:414:ILE:HB	15:O:425:GLY:O	1.99	0.62
16:P:28:THR:CG2	16:P:29:CYS:N	2.63	0.62
16:P:126:PRO:O	16:P:127:LYS:C	2.38	0.62
16:P:263:PRO:C	16:P:265:GLU:N	2.53	0.62
16:P:372:GLU:O	16:P:374:THR:N	2.32	0.62
1:A:29:ALA:HA	2:B:1129:ARG:NH2	2.15	0.62
1:A:58:LEU:HD12	1:A:60:ASN:ND2	2.02	0.62
1:A:86:TYR:OH	1:A:317:SER:HA	2.00	0.62
2:B:293:ILE:CD1	2:B:297:VAL:HA	2.29	0.62
8:H:93:TYR:HE1	8:H:145:ARG:NH1	1.97	0.62
13:M:23:VAL:O	13:M:95:VAL:HA	2.00	0.62
15:O:174:TRP:HD1	17:Q:199:LYS:HB2	1.64	0.62
15:O:461:HIS:HB3	15:O:484:ARG:HG2	1.81	0.62
15:O:702:LEU:HG	16:P:125:PHE:CE1	2.27	0.62
16:P:185:ILE:CD1	17:Q:208:TYR:OH	2.47	0.62
16:P:483:ILE:O	16:P:487:LEU:HG	1.99	0.62
17:Q:385:ASN:HD22	17:Q:385:ASN:H	1.48	0.62
1:A:53:ALA:CA	1:A:63:SER:HB2	2.30	0.62
1:A:611:GLU:OE1	1:A:615:ARG:NH2	2.25	0.62
2:B:111:ASP:OD1	2:B:111:ASP:N	2.30	0.62
2:B:155:VAL:HB	17:Q:359:MET:SD	2.39	0.62
2:B:1014:TYR:HD1	2:B:1021:GLU:HA	1.65	0.62
13:M:43:LYS:HE2	13:M:45:LYS:HG3	1.80	0.62
15:O:54:UNK:HA	15:O:554:ASN:CG	2.20	0.62
15:O:270:GLN:OE1	15:O:291:PRO:CG	2.47	0.62
15:O:303:VAL:HG12	15:O:361:LYS:O	1.99	0.62
15:O:604:ILE:HG23	15:O:732:LEU:CD2	2.29	0.62
15:O:691:VAL:HG22	15:O:691:VAL:O	2.00	0.62
15:O:693:PHE:HD2	15:O:746:ARG:N	1.76	0.62
15:O:727:PRO:HD3	16:P:264:PRO:CD	2.30	0.62
15:O:771:ILE:HG12	16:P:106:LYS:CG	2.29	0.62
17:Q:246:GLN:O	17:Q:248:LYS:HB2	1.99	0.62
1:A:57:PHE:CE2	1:A:58:LEU:HD23	2.35	0.61
1:A:592:GLN:OE1	1:A:592:GLN:HA	1.99	0.61
1:A:1026:GLN:HE22	1:A:1603:MET:HG3	1.65	0.61
1:A:1097:TYR:CE2	1:A:1123:VAL:HA	2.35	0.61
1:A:1262:LEU:HD22	1:A:1497:ILE:HG22	1.82	0.61
1:A:1584:LEU:HD23	1:A:1584:LEU:C	2.20	0.61
2:B:429:ARG:HA	2:B:432:ILE:CD1	2.29	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:820:PRO:CG	16:P:81:LEU:HD11	2.29	0.61
2:B:1063:ARG:H	20:T:19:DC:P	2.23	0.61
15:O:391:THR:HG22	15:O:392:GLU:N	2.15	0.61
15:O:707:ASP:OD2	16:P:439:ILE:CG1	2.47	0.61
16:P:137:TRP:CD1	16:P:141:LEU:HD11	2.34	0.61
1:A:55:GLY:CA	1:A:62:CYS:SG	2.88	0.61
1:A:119:ALA:HB2	1:A:334:VAL:HG23	1.81	0.61
3:C:334:THR:HG21	11:K:44:ARG:O	1.99	0.61
6:F:83:PRO:HB2	6:F:152:ILE:CD1	2.28	0.61
9:I:2:SER:OG	9:I:9:PHE:HB2	2.00	0.61
13:M:16:GLN:HE21	14:N:36:LYS:CD	2.13	0.61
15:O:577:LEU:CD1	16:P:502:ILE:HG21	2.20	0.61
15:O:714:PHE:CZ	15:O:741:ILE:HD11	2.34	0.61
16:P:494:SER:OG	16:P:498:LEU:N	2.32	0.61
17:Q:127:PHE:CD1	17:Q:131:TYR:CD2	2.85	0.61
1:A:407:GLN:O	1:A:409:ASP:N	2.33	0.61
2:B:738:ASP:OD2	2:B:741:LEU:HD21	1.99	0.61
3:C:86:PHE:HE1	12:L:64:LEU:HD13	1.66	0.61
3:C:151:THR:HB	3:C:155:GLU:CD	2.11	0.61
15:O:308:ASN:CA	15:O:365:TRP:CE3	2.82	0.61
15:O:775:TRP:CE2	16:P:113:LYS:HB2	2.35	0.61
16:P:284:LEU:HD12	16:P:284:LEU:O	2.00	0.61
16:P:385:PHE:O	16:P:388:THR:HB	2.00	0.61
17:Q:133:LYS:CG	17:Q:286:GLN:OE1	2.48	0.61
17:Q:372:HIS:ND1	17:Q:407:HIS:NE2	2.48	0.61
1:A:379:GLU:OE1	16:P:56:ILE:CB	2.43	0.61
2:B:565:LEU:HD13	2:B:593:ILE:HD11	1.82	0.61
2:B:1052:VAL:HG21	16:P:41:PHE:HE1	1.66	0.61
16:P:77:ASN:O	16:P:78:SER:CB	2.47	0.61
16:P:82:GLN:O	16:P:86:ARG:HG3	2.00	0.61
16:P:136:ILE:HD12	16:P:168:ALA:CB	2.29	0.61
17:Q:352:TRP:CZ3	17:Q:357:PRO:CG	2.82	0.61
2:B:244:THR:HG22	2:B:411:MET:HG2	1.81	0.61
2:B:1185:LEU:O	2:B:1186:ASP:HB3	2.01	0.61
4:D:95:ASP:CG	7:G:150:HIS:HA	2.20	0.61
5:E:156:LEU:HD12	5:E:195:VAL:CG1	2.31	0.61
13:M:43:LYS:NZ	13:M:45:LYS:HD3	2.15	0.61
15:O:326:ILE:HG12	15:O:344:ILE:HD13	0.72	0.61
15:O:399:TRP:CD1	17:Q:134:PRO:CG	2.82	0.61
15:O:577:LEU:HD23	16:P:499:LYS:NZ	2.12	0.61
15:O:669:PHE:CD1	15:O:738:LYS:CE	2.71	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:176:VAL:HG22	16:P:177:TYR:N	2.14	0.61
17:Q:358:PHE:CE2	17:Q:365:TRP:HZ3	2.17	0.61
1:A:989:GLY:HA3	2:B:709:PHE:HE1	1.64	0.61
2:B:894:LYS:HG2	2:B:896:GLN:HG2	1.83	0.61
2:B:1117:VAL:HB	2:B:1153:ILE:O	1.99	0.61
8:H:10:PHE:CD1	8:H:30:SER:HA	2.35	0.61
9:I:7:LEU:HB3	9:I:16:LEU:CD1	2.29	0.61
13:M:43:LYS:HE2	13:M:45:LYS:CG	2.31	0.61
13:M:80:LEU:HD11	14:N:51:GLN:HB3	1.82	0.61
15:O:274:ILE:CD1	15:O:284:VAL:HG11	2.30	0.61
15:O:329:ILE:HG22	15:O:340:LYS:N	2.15	0.61
15:O:407:ARG:HH11	15:O:411:LYS:HG2	1.65	0.61
15:O:653:SER:O	15:O:654:LEU:HD12	1.97	0.61
15:O:772:ILE:HG23	15:O:773:SER:H	1.65	0.61
16:P:9:ILE:CG1	16:P:18:ARG:HH22	2.12	0.61
16:P:92:PHE:HB3	16:P:93:LYS:HE3	1.81	0.61
17:Q:133:LYS:HD3	17:Q:286:GLN:HA	1.81	0.61
17:Q:133:LYS:HG2	17:Q:286:GLN:OE1	2.00	0.61
17:Q:314:TRP:CD2	17:Q:367:ILE:HD12	2.36	0.61
1:A:197:LEU:CD2	1:A:202:THR:HG23	2.30	0.61
1:A:246:ASP:CG	1:A:250:LYS:H	2.03	0.61
2:B:768:GLY:N	2:B:1032:TYR:OH	2.33	0.61
5:E:175:LEU:HD12	5:E:213:ILE:HD12	1.83	0.61
10:J:36:LEU:HD22	10:J:41:LEU:HD12	1.81	0.61
13:M:13:GLU:HG2	13:M:87:SER:HB2	1.83	0.61
15:O:299:ASP:CB	17:Q:159:TYR:CD2	2.75	0.61
15:O:541:LEU:HD12	15:O:541:LEU:N	2.16	0.61
17:Q:33:ARG:HA	17:Q:33:ARG:NH2	2.14	0.61
17:Q:177:LEU:O	17:Q:185:LYS:HE2	2.01	0.61
17:Q:202:THR:HG22	17:Q:202:THR:O	2.00	0.61
1:A:321:LYS:CA	1:A:356:PHE:HE2	2.13	0.61
1:A:581:ILE:HD11	1:A:605:VAL:CG2	2.22	0.61
1:A:855:ARG:HH12	1:A:867:ASP:CA	2.13	0.61
1:A:885:ASP:OD2	1:A:888:LYS:HG3	2.00	0.61
1:A:1041:ALA:O	1:A:1635:ASP:HB3	2.00	0.61
2:B:563:SER:HA	13:M:73:SER:OG	2.01	0.61
2:B:565:LEU:HB3	2:B:570:VAL:HG21	1.82	0.61
3:C:329:LYS:CE	11:K:122:LYS:HD2	2.30	0.61
5:E:55:ARG:CD	5:E:113:GLN:HE21	2.12	0.61
6:F:80:ALA:N	6:F:144:GLU:OE2	2.29	0.61
8:H:80:ARG:HH21	8:H:83:GLN:HE22	1.49	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:113:ALA:HA	8:H:125:LEU:O	2.00	0.61
13:M:11:GLU:H	13:M:86:LYS:HE2	1.66	0.61
15:O:377:ARG:HG3	15:O:378:SER:N	2.13	0.61
15:O:408:ILE:HG22	15:O:413:GLY:O	2.01	0.61
15:O:468:VAL:HG22	15:O:477:TYR:HB3	1.83	0.61
15:O:506:THR:HG22	15:O:540:LYS:O	2.00	0.61
15:O:581:ALA:HB3	15:O:585:GLU:HG2	1.83	0.61
15:O:740:ILE:CG2	16:P:267:TYR:OH	2.49	0.61
16:P:218:SER:O	19:S:13:DA:OP1	2.18	0.61
17:Q:8:LEU:O	17:Q:10:ASN:N	2.33	0.61
1:A:58:LEU:CG	1:A:60:ASN:HD22	2.12	0.61
1:A:1057:ILE:H	1:A:1057:ILE:HD12	1.65	0.61
2:B:566:TYR:CD2	13:M:73:SER:HB2	2.35	0.61
9:I:36:ILE:O	9:I:39:LYS:CE	2.48	0.61
15:O:222:GLN:CD	15:O:225:LEU:HB2	2.14	0.61
15:O:275:GLU:HG2	15:O:285:MET:CG	2.31	0.61
15:O:275:GLU:C	15:O:284:VAL:HG13	2.21	0.61
15:O:294:PHE:HD2	15:O:300:LEU:HB3	1.66	0.61
15:O:390:GLN:HB3	17:Q:151:PRO:HG3	0.69	0.61
15:O:583:GLU:OE1	15:O:584:ARG:CG	2.47	0.61
15:O:760:ILE:CG1	16:P:138:LEU:HB3	2.27	0.61
16:P:33:HIS:HD2	16:P:34:VAL:HG13	1.63	0.61
16:P:50:GLY:H	20:T:23:DA:H62	1.48	0.61
16:P:110:PHE:CD2	16:P:198:ILE:CG2	2.81	0.61
16:P:122:GLU:OE1	16:P:123:MET:CG	2.42	0.61
16:P:156:LEU:CA	16:P:160:SER:CB	2.78	0.61
16:P:176:VAL:HG11	16:P:179:CYS:HB3	1.82	0.61
16:P:200:PRO:HA	16:P:203:TRP:H	1.66	0.61
16:P:442:LEU:CD1	16:P:446:TYR:CE2	2.83	0.61
1:A:35:PRO:HB3	1:A:390:LEU:CB	2.31	0.61
1:A:368:ARG:HD2	1:A:383:ASN:OD1	2.01	0.61
1:A:1102:LEU:CB	1:A:1105:ARG:HH21	2.12	0.61
2:B:1060:VAL:CG2	16:P:43:ASP:O	2.48	0.61
2:B:1175:THR:O	2:B:1179:PRO:CD	2.48	0.61
5:E:1:MET:HB3	5:E:4:GLU:CB	2.30	0.61
15:O:715:TYR:CZ	15:O:734:LYS:HD2	2.34	0.61
16:P:488:LEU:O	16:P:491:PHE:O	2.19	0.61
1:A:132:GLU:OE1	1:A:188:TYR:OH	2.14	0.60
1:A:561:LEU:O	1:A:575:LYS:HD2	2.01	0.60
1:A:596:HIS:HD2	1:A:598:ALA:HB3	1.66	0.60
1:A:672:ASP:OD1	2:B:777:SER:HB2	2.01	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1271:ILE:HG23	9:I:50:THR:HG22	1.83	0.60
2:B:600:GLN:O	2:B:604:ILE:HG13	2.00	0.60
2:B:1138:ALA:HB3	2:B:1140:LYS:HE2	1.83	0.60
8:H:103:LYS:HE3	8:H:115:TYR:CD1	2.35	0.60
13:M:44:LYS:N	13:M:49:ASP:OD1	2.34	0.60
15:O:217:ALA:O	15:O:229:ARG:NH2	2.34	0.60
15:O:424:VAL:HG23	15:O:437:SER:HG	1.65	0.60
15:O:537:PHE:HE1	15:O:552:LEU:HD11	1.66	0.60
16:P:39:VAL:CG2	16:P:41:PHE:CZ	2.83	0.60
16:P:298:VAL:O	16:P:300:ASN:N	2.33	0.60
16:P:330:TRP:CZ3	16:P:334:LEU:CD1	2.84	0.60
17:Q:21:TYR:CD2	17:Q:124:GLU:CG	2.84	0.60
17:Q:174:GLU:HA	17:Q:177:LEU:HB2	1.83	0.60
17:Q:355:THR:O	17:Q:359:MET:CE	2.49	0.60
1:A:38:LEU:CD2	1:A:42:GLY:HA2	2.31	0.60
1:A:674:ILE:HA	1:A:786:TYR:OH	1.99	0.60
2:B:321:GLN:N	2:B:325:GLN:OE1	2.35	0.60
3:C:120:LEU:HD13	3:C:124:GLU:CB	2.21	0.60
5:E:182:ASP:OD1	5:E:183:PRO:HD2	2.01	0.60
15:O:172:PHE:CZ	17:Q:186:LEU:HD22	2.36	0.60
15:O:187:ILE:HG12	15:O:258:SER:OG	2.02	0.60
15:O:353:ASP:C	17:Q:28:SER:CB	2.69	0.60
15:O:583:GLU:CG	15:O:584:ARG:HG2	2.28	0.60
16:P:104:PHE:CG	16:P:211:TYR:CB	2.73	0.60
16:P:113:LYS:O	16:P:116:ILE:CG1	2.47	0.60
16:P:166:TYR:CD2	16:P:230:ILE:HD13	2.36	0.60
17:Q:134:PRO:O	17:Q:135:GLU:CB	2.48	0.60
1:A:253:GLU:N	1:A:313:THR:O	2.30	0.60
1:A:483:VAL:O	1:A:613:THR:HB	2.00	0.60
1:A:911:CYS:O	1:A:915:GLY:N	2.34	0.60
1:A:1158:SER:HB2	1:A:1161:VAL:CG2	2.31	0.60
2:B:1002:LYS:CG	14:N:166:LEU:HD12	2.30	0.60
3:C:146:ALA:HB1	3:C:155:GLU:OE2	2.01	0.60
8:H:111:LEU:HA	8:H:127:GLY:O	2.02	0.60
15:O:180:ASN:OD1	15:O:181:ARG:N	2.34	0.60
15:O:200:THR:HB	15:O:218:VAL:HG13	1.82	0.60
15:O:282:CYS:O	15:O:284:VAL:HG23	2.01	0.60
15:O:304:ASP:OD2	15:O:363:ILE:HG13	2.00	0.60
15:O:704:LEU:HD23	15:O:704:LEU:H	1.65	0.60
16:P:179:CYS:SG	16:P:255:LYS:NZ	2.70	0.60
17:Q:34:ILE:HD13	17:Q:165:ILE:CG1	2.30	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:133:LYS:CG	17:Q:286:GLN:CD	2.67	0.60
1:A:35:PRO:CG	1:A:394:LEU:HD11	2.23	0.60
1:A:263:ASN:HA	1:A:266:VAL:HG22	1.83	0.60
1:A:1070:LEU:HD23	1:A:1154:LEU:CD2	2.31	0.60
2:B:906:ARG:HD2	3:C:93:GLN:NE2	2.17	0.60
3:C:227:TYR:HB3	3:C:300:PHE:HD1	1.63	0.60
11:K:83:ASN:HB3	11:K:86:VAL:HG23	1.83	0.60
14:N:95:ILE:O	14:N:96:GLU:OE2	2.19	0.60
15:O:195:ASN:O	15:O:196:TYR:HB3	2.01	0.60
15:O:301:GLN:HB3	15:O:321:LYS:NZ	2.15	0.60
15:O:325:SER:O	15:O:326:ILE:HD13	2.00	0.60
15:O:454:GLN:H	15:O:465:VAL:HG23	1.67	0.60
15:O:472:ARG:HH11	17:Q:203:SER:HB3	1.65	0.60
15:O:574:TRP:CZ3	16:P:484:ALA:CB	2.83	0.60
1:A:1559:ARG:HH22	1:A:1583:ASP:CG	2.04	0.60
1:A:1657:LEU:HG	7:G:106:LYS:HA	1.83	0.60
2:B:371:PHE:CZ	2:B:375:LEU:HD11	2.36	0.60
2:B:627:GLY:O	2:B:640:LEU:HD12	2.01	0.60
15:O:395:GLN:CD	15:O:397:LYS:HA	2.21	0.60
15:O:433:VAL:HG12	17:Q:144:VAL:HG22	1.83	0.60
15:O:623:LEU:HB3	15:O:674:GLU:OE1	2.02	0.60
15:O:650:LEU:HD22	16:P:139:LYS:CD	2.31	0.60
15:O:650:LEU:HG	15:O:756:ILE:HG21	1.84	0.60
15:O:722:TRP:CZ3	16:P:264:PRO:HA	2.37	0.60
16:P:27:ARG:HH21	16:P:69:SER:CB	1.94	0.60
16:P:167:LEU:HB3	16:P:239:PHE:CE2	2.37	0.60
16:P:201:LYS:HG3	16:P:202:SER:N	2.17	0.60
16:P:215:LEU:HD23	16:P:215:LEU:C	2.21	0.60
17:Q:304:HIS:CD2	17:Q:304:HIS:C	2.73	0.60
1:A:469:LYS:HA	2:B:1070:ARG:NH2	2.14	0.60
2:B:95:LEU:CD2	2:B:440:PHE:CG	2.77	0.60
2:B:858:ILE:CG1	2:B:874:TYR:HB2	2.31	0.60
7:G:74:ASN:N	7:G:79:GLY:O	2.26	0.60
7:G:143:SER:O	7:G:158:LYS:HA	2.01	0.60
11:K:54:THR:HG23	11:K:61:ALA:HB2	1.84	0.60
13:M:37:THR:O	13:M:62:TYR:OH	2.13	0.60
15:O:314:GLN:CD	15:O:329:ILE:O	2.39	0.60
16:P:95:LEU:HD21	16:P:99:GLU:HB3	1.84	0.60
16:P:369:TRP:CZ3	16:P:377:PHE:CD2	2.90	0.60
2:B:752:VAL:HG12	2:B:981:SER:HB3	1.83	0.60
9:I:29:GLU:HG2	9:I:36:ILE:HD13	1.84	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:51:PHE:CD2	13:M:94:PRO:HG3	2.28	0.60
14:N:111:VAL:HG22	14:N:120:LYS:O	2.02	0.60
15:O:375:PHE:CD1	15:O:380:MET:C	2.75	0.60
15:O:421:ILE:HG22	15:O:422:ILE:N	2.16	0.60
15:O:431:ASP:CG	15:O:432:PRO:HD2	2.21	0.60
16:P:60:LEU:C	16:P:60:LEU:CD1	2.68	0.60
16:P:96:ILE:CB	16:P:209:ASN:ND2	2.63	0.60
17:Q:28:SER:OG	17:Q:130:LYS:NZ	2.34	0.60
1:A:413:LEU:CD1	1:A:413:LEU:H	2.08	0.60
1:A:475:ARG:HE	2:B:1061:LYS:HB2	1.67	0.60
2:B:823:GLN:NE2	2:B:863:ASP:OD2	2.35	0.60
4:D:91:ARG:HG2	4:D:94:ARG:HH21	1.65	0.60
5:E:197:LYS:HA	5:E:211:TYR:CD1	2.37	0.60
14:N:25:ILE:CG2	14:N:26:PRO:HD3	2.32	0.60
15:O:363:ILE:O	15:O:364:GLU:OE1	2.19	0.60
15:O:422:ILE:CB	15:O:440:HIS:NE2	2.65	0.60
15:O:630:LEU:HD12	15:O:631:SER:N	2.16	0.60
15:O:702:LEU:HD13	16:P:174:LEU:CA	2.32	0.60
16:P:17:SER:OG	16:P:30:GLN:CB	2.49	0.60
16:P:378:LEU:CG	17:Q:234:LYS:HB3	2.32	0.60
16:P:418:PRO:C	16:P:419:LEU:CD2	2.67	0.60
17:Q:390:ASN:O	17:Q:391:ASP:C	2.39	0.60
1:A:1144:LEU:O	1:A:1148:LEU:HG	2.01	0.60
7:G:45:LEU:CD1	7:G:118:CYS:HB2	2.32	0.60
13:M:80:LEU:HA	14:N:52:GLN:O	2.02	0.60
15:O:275:GLU:CG	15:O:285:MET:HG2	2.32	0.60
15:O:324:TRP:CH2	15:O:346:ASN:O	2.55	0.60
15:O:391:THR:HG21	15:O:393:VAL:HG13	1.84	0.60
15:O:436:ILE:HD12	15:O:436:ILE:O	2.02	0.60
15:O:571:HIS:CD2	15:O:574:TRP:CD1	2.89	0.60
15:O:620:ASP:CG	15:O:624:GLN:NE2	2.55	0.60
16:P:9:ILE:CB	16:P:18:ARG:HH21	2.07	0.60
16:P:156:LEU:C	16:P:160:SER:HB3	2.21	0.60
16:P:341:ARG:HH11	16:P:341:ARG:CG	2.15	0.60
17:Q:173:MET:HA	17:Q:173:MET:CE	2.32	0.60
17:Q:175:ILE:CB	17:Q:176:PRO:CD	2.80	0.60
17:Q:266:SER:OG	17:Q:268:LEU:HD12	2.01	0.60
2:B:187:SER:OG	10:J:59:LYS:NZ	2.33	0.60
2:B:480:GLN:OE1	2:B:480:GLN:N	2.35	0.60
3:C:315:PHE:HB3	3:C:319:ARG:NH2	2.17	0.60
14:N:26:PRO:HG2	14:N:29:PHE:CE2	2.37	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:10:UNK:C	17:Q:141:TRP:HB3	2.32	0.60
15:O:214:LEU:H	15:O:236:ILE:CB	2.12	0.60
15:O:308:ASN:N	15:O:365:TRP:CZ2	2.70	0.60
15:O:378:SER:HB3	15:O:397:LYS:CD	2.32	0.60
15:O:596:ILE:HA	16:P:272:GLN:HE22	1.64	0.60
15:O:665:ASN:O	15:O:666:SER:C	2.40	0.60
16:P:334:LEU:CD2	16:P:449:GLN:CD	2.70	0.60
17:Q:33:ARG:HH21	17:Q:33:ARG:CG	2.14	0.60
1:A:79:ILE:HD11	1:A:386:LEU:HD21	1.84	0.59
2:B:820:PRO:HG3	16:P:81:LEU:CD1	2.32	0.59
2:B:906:ARG:HD2	3:C:93:GLN:CD	2.23	0.59
3:C:283:GLU:OE1	3:C:283:GLU:N	2.26	0.59
5:E:113:GLN:HA	5:E:137:GLU:OE1	2.01	0.59
7:G:13:THR:O	7:G:17:ILE:HG12	2.02	0.59
9:I:20:PRO:O	9:I:23:VAL:HG22	2.02	0.59
15:O:214:LEU:CD1	15:O:242:ILE:HD13	2.31	0.59
15:O:315:PHE:O	15:O:317:ILE:CG1	2.51	0.59
15:O:351:ILE:HD12	17:Q:157:MET:SD	2.42	0.59
15:O:381:ILE:HG22	15:O:382:GLU:N	2.17	0.59
15:O:511:ILE:HD13	15:O:536:ASP:CG	2.22	0.59
15:O:589:ILE:HG21	16:P:320:PHE:HE2	1.63	0.59
15:O:656:HIS:CG	15:O:747:LEU:N	2.58	0.59
15:O:705:HIS:CE1	15:O:707:ASP:OD2	2.55	0.59
16:P:17:SER:CB	16:P:30:GLN:HB2	2.32	0.59
16:P:165:LEU:HD23	16:P:165:LEU:O	2.02	0.59
16:P:207:LEU:O	16:P:209:ASN:CA	2.49	0.59
16:P:399:SER:HB2	16:P:402:MET:HB3	1.84	0.59
16:P:399:SER:O	16:P:407:LYS:HE3	2.02	0.59
16:P:403:THR:CG2	16:P:405:ASP:C	2.68	0.59
16:P:497:GLN:HG2	16:P:498:LEU:H	1.65	0.59
17:Q:266:SER:HB2	17:Q:268:LEU:HD12	1.84	0.59
17:Q:282:SER:N	17:Q:301:SER:O	2.35	0.59
17:Q:393:ILE:O	17:Q:393:ILE:HG12	2.01	0.59
1:A:464:GLU:HA	1:A:468:ARG:HH11	1.66	0.59
1:A:1200:MET:HG2	1:A:1573:TYR:CE2	2.37	0.59
1:A:1241:PRO:O	1:A:1536:ILE:HG23	2.02	0.59
2:B:566:TYR:HD2	13:M:73:SER:HB2	1.66	0.59
2:B:816:ASN:OD1	19:S:27:DT:OP1	2.20	0.59
2:B:1126:VAL:HB	2:B:1166:LYS:NZ	2.17	0.59
2:B:1177:ALA:O	2:B:1180:PHE:HB3	2.02	0.59
5:E:55:ARG:HB3	5:E:82:PHE:CB	2.33	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:71:PRO:O	14:N:78:THR:HG22	2.02	0.59
14:N:90:MET:O	14:N:138:SER:N	2.35	0.59
15:O:181:ARG:HD2	15:O:206:ALA:HB1	1.83	0.59
15:O:373:LEU:CB	15:O:375:PHE:CE2	2.85	0.59
15:O:689:GLN:O	15:O:690:ASP:HB2	2.02	0.59
16:P:29:CYS:HB3	16:P:33:HIS:H	1.67	0.59
16:P:48:LEU:CD1	20:T:22:DG:H5'	2.29	0.59
16:P:225:GLN:HE22	20:T:46:DT:C4'	2.16	0.59
16:P:441:ASP:O	16:P:445:ARG:HG2	2.02	0.59
1:A:402:ASP:O	1:A:406:LEU:HB2	2.01	0.59
1:A:921:PRO:HG2	8:H:19:ARG:HG3	1.78	0.59
2:B:186:GLU:CD	2:B:731:VAL:H	2.04	0.59
2:B:613:VAL:HB	2:B:658:LEU:HD12	1.84	0.59
2:B:787:MET:O	2:B:927:CYS:HA	2.03	0.59
3:C:172:GLN:H	3:C:175:GLN:NE2	1.99	0.59
7:G:43:ILE:HD13	7:G:122:LEU:CD1	2.32	0.59
7:G:82:LEU:HB2	7:G:123:TYR:O	2.02	0.59
9:I:34:LYS:HG3	13:M:59:ARG:HD3	1.84	0.59
14:N:90:MET:HB2	14:N:138:SER:HB3	1.85	0.59
15:O:428:GLU:CA	15:O:435:ARG:CG	2.80	0.59
15:O:440:HIS:HE1	15:O:481:PHE:CE1	2.15	0.59
15:O:512:LEU:HD23	15:O:512:LEU:O	2.03	0.59
16:P:204:ARG:NH2	19:S:15:DA:OP1	2.30	0.59
16:P:353:VAL:O	16:P:356:VAL:CG2	2.37	0.59
1:A:1039:ARG:HD2	6:F:139:PRO:CG	2.27	0.59
7:G:28:ILE:HD13	7:G:35:SER:OG	2.03	0.59
14:N:54:TRP:CZ3	14:N:72:VAL:HG21	2.36	0.59
15:O:319:ASP:HB2	15:O:363:ILE:HG12	1.84	0.59
15:O:329:ILE:HG23	15:O:340:LYS:HB3	1.84	0.59
15:O:467:PHE:CD1	15:O:478:MET:HG2	2.37	0.59
15:O:698:LYS:CE	16:P:126:PRO:CD	2.77	0.59
15:O:725:VAL:HG13	16:P:450:THR:O	2.02	0.59
16:P:258:MET:HG2	16:P:262:LEU:CD2	2.30	0.59
16:P:278:GLU:HG2	16:P:309:TYR:CE2	2.37	0.59
17:Q:247:ILE:O	17:Q:250:LEU:N	2.35	0.59
1:A:24:ILE:O	1:A:28:SER:HB2	2.02	0.59
1:A:857:ALA:HB2	1:A:899:LYS:HD3	1.84	0.59
1:A:957:VAL:HG13	1:A:958:PRO:HD2	1.83	0.59
1:A:1039:ARG:HH11	6:F:139:PRO:HG2	1.68	0.59
1:A:1217:LEU:O	1:A:1220:PRO:HD2	2.02	0.59
2:B:225:ARG:NH2	2:B:268:GLU:OE1	2.36	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:317:TYR:HB3	2:B:320:LEU:CD1	2.32	0.59
2:B:612:LYS:HA	2:B:620:LEU:HD22	1.82	0.59
2:B:740:LYS:HA	2:B:804:TYR:O	2.03	0.59
3:C:251:PHE:HE1	3:C:279:VAL:HB	1.67	0.59
6:F:74:ILE:CD1	6:F:142:SER:HB3	2.33	0.59
15:O:599:LYS:CD	16:P:272:GLN:NE2	2.64	0.59
15:O:708:VAL:O	15:O:708:VAL:HG12	2.01	0.59
15:O:750:PRO:O	15:O:752:LEU:N	2.35	0.59
16:P:110:PHE:CE1	16:P:199:LEU:HD23	2.37	0.59
16:P:124:ARG:HG3	16:P:124:ARG:O	2.03	0.59
17:Q:355:THR:H	17:Q:359:MET:HB2	1.66	0.59
1:A:56:ALA:HB2	1:A:67:LEU:O	2.03	0.59
1:A:217:LYS:NZ	1:A:1604:GLU:HG2	2.17	0.59
1:A:729:LYS:HE3	8:H:120:GLY:HA3	1.83	0.59
2:B:937:PRO:HB2	2:B:1013:MET:CE	2.31	0.59
6:F:85:MET:HA	6:F:89:GLU:OE1	2.02	0.59
6:F:93:ILE:CD1	6:F:134:ILE:HD11	2.30	0.59
7:G:137:ILE:N	7:G:147:LEU:HD23	2.17	0.59
7:G:157:ILE:HD13	7:G:249:LEU:HG	1.84	0.59
13:M:76:TYR:CE2	14:N:57:LYS:HG2	2.36	0.59
15:O:772:ILE:HD13	16:P:138:LEU:CD2	2.33	0.59
16:P:193:PHE:HB2	17:Q:208:TYR:CE2	2.37	0.59
17:Q:177:LEU:HD11	17:Q:188:PHE:HD2	1.67	0.59
1:A:532:GLY:H	1:A:580:HIS:HD2	1.49	0.59
1:A:631:ASP:OD1	18:R:6:A:O2'	2.17	0.59
1:A:708:THR:CG2	1:A:742:PRO:HD2	2.32	0.59
1:A:1028:GLU:CB	1:A:1187:ILE:HD11	2.33	0.59
1:A:1617:THR:HG22	20:T:12:DG:H4'	1.83	0.59
2:B:372:ARG:NH2	2:B:574:SER:HB3	2.18	0.59
2:B:1061:LYS:CB	16:P:45:GLU:CA	2.68	0.59
2:B:1069:ILE:HD12	2:B:1069:ILE:C	2.23	0.59
5:E:69:ILE:HD12	5:E:72:PHE:O	2.01	0.59
9:I:34:LYS:HB2	13:M:59:ARG:NH1	2.17	0.59
9:I:36:ILE:HB	9:I:39:LYS:HD3	1.83	0.59
12:L:31:CYS:HA	12:L:56:LEU:HD23	1.84	0.59
15:O:275:GLU:CG	15:O:285:MET:HG3	2.31	0.59
15:O:371:LYS:CD	15:O:432:PRO:HG2	2.27	0.59
15:O:376:ASP:OD1	15:O:379:LYS:O	2.21	0.59
16:P:101:LYS:HZ1	16:P:151:GLU:C	1.99	0.59
17:Q:261:LEU:HD21	17:Q:264:SER:H	1.67	0.59
1:A:36:THR:C	1:A:45:VAL:HG11	2.23	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:988:SER:HB2	2:B:988:GLU:HG2	1.85	0.59
1:A:1288:ARG:HD3	1:A:1290:TYR:OH	2.02	0.59
2:B:259:THR:CB	2:B:270:LEU:HD21	2.32	0.59
2:B:289:PHE:O	2:B:293:ILE:HG22	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:294:PHE:CD1	15:O:297:ILE:HG13	2.27	0.59
15:O:308:ASN:HB3	15:O:315:PHE:CG	2.38	0.59
15:O:318:ILE:HD12	15:O:324:TRP:HA	1.83	0.59
15:O:318:ILE:O	15:O:324:TRP:HB2	2.03	0.59
15:O:324:TRP:CZ2	15:O:347:LEU:CD1	2.76	0.59
15:O:414:ILE:HB	15:O:425:GLY:N	2.17	0.59
15:O:573:GLU:O	15:O:576:SER:N	2.35	0.59
15:O:623:LEU:HD13	15:O:668:SER:O	2.01	0.59
16:P:9:ILE:HG13	16:P:16:PRO:HA	1.84	0.59
16:P:110:PHE:CD2	16:P:198:ILE:HA	2.27	0.59
16:P:207:LEU:N	16:P:208:PRO:CD	2.65	0.59
16:P:212:VAL:O	16:P:215:LEU:HD13	2.03	0.59
16:P:369:TRP:CE3	17:Q:219:LEU:HD11	2.38	0.59
16:P:404:ILE:HG22	16:P:404:ILE:O	2.02	0.59
16:P:418:PRO:O	16:P:419:LEU:HG	2.03	0.59
17:Q:317:LEU:HD23	17:Q:367:ILE:CD1	2.32	0.59
1:A:214:ASP:HB2	1:A:1605:THR:HG23	1.85	0.59
1:A:242:LYS:HB3	1:A:254:THR:HB	1.84	0.59
1:A:412:SER:O	1:A:414:GLU:N	2.36	0.59
1:A:700:ILE:HD13	1:A:738:ASN:HD22	1.67	0.59
1:A:722:PRO:O	1:A:723:TYR:HB3	2.01	0.59
1:A:944:MET:O	1:A:985:ARG:NH1	2.35	0.59
1:A:1243:TRP:CZ2	1:A:1537:ASP:HA	2.38	0.59
2:B:29:PRO:O	2:B:177:PRO:HB2	2.03	0.59
2:B:658:LEU:HB3	2:B:660:LYS:HE2	1.84	0.59
5:E:193:GLY:HA2	5:E:215:MET:CE	2.33	0.59
8:H:48:PRO:CG	8:H:146:ARG:HH12	2.14	0.59
15:O:363:ILE:CG2	15:O:374:VAL:HG13	2.32	0.59
15:O:390:GLN:OE1	17:Q:151:PRO:HG2	1.99	0.59
1:A:401:ASP:O	1:A:405:LYS:HB3	2.02	0.59
1:A:741:PRO:HB2	1:A:743:ASP:OD1	2.03	0.59
2:B:833:PRO:HD2	2:B:836:TRP:CE2	2.37	0.59
2:B:934:ILE:HG21	3:C:73:SER:OG	2.03	0.59
3:C:173:GLY:O	3:C:176:SER:HB3	2.03	0.59
14:N:135:LYS:HE3	14:N:137:PHE:CZ	2.38	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:301:GLN:O	15:O:320:ILE:HG23	2.03	0.59
15:O:347:LEU:CD1	15:O:383:ILE:HD11	2.31	0.59
15:O:583:GLU:OE1	15:O:583:GLU:N	2.36	0.59
15:O:768:TYR:HB2	16:P:145:ASN:HD21	1.67	0.59
16:P:370:SER:HG	16:P:373:GLU:CD	2.03	0.59
16:P:414:TYR:HB3	17:Q:241:ARG:NH2	2.18	0.59
17:Q:216:LEU:O	17:Q:219:LEU:N	2.34	0.59
17:Q:290:TYR:O	17:Q:294:VAL:HG12	2.03	0.59
17:Q:353:VAL:N	17:Q:358:PHE:CE2	2.70	0.59
1:A:57:PHE:O	1:A:58:LEU:HG	2.02	0.58
1:A:418:VAL:O	1:A:421:SER:OG	2.14	0.58
1:A:475:ARG:NE	2:B:1061:LYS:HB2	2.17	0.58
1:A:592:GLN:NE2	1:A:593:PRO:HD3	2.18	0.58
1:A:669:LEU:HB2	1:A:786:TYR:CE2	2.38	0.58
1:A:912:VAL:C	1:A:914:ASP:N	2.54	0.58
1:A:1133:LEU:HD11	1:A:1171:GLN:C	2.23	0.58
1:A:1297:PHE:HB3	1:A:1301:GLU:OE1	2.03	0.58
1:A:1556:GLU:OE1	5:E:200:ARG:NH1	2.34	0.58
2:B:129:ARG:HG2	2:B:131:THR:CG2	2.32	0.58
2:B:500:PHE:O	2:B:501:ARG:HD2	2.02	0.58
2:B:655:TYR:CZ	2:B:657:PRO:HG2	2.38	0.58
4:D:31:VAL:HG11	7:G:123:TYR:CE1	2.38	0.58
7:G:169:VAL:HG23	7:G:216:HIS:HB3	1.85	0.58
15:O:292:LEU:HD12	15:O:292:LEU:N	2.12	0.58
15:O:420:GLU:O	15:O:421:ILE:CG1	2.51	0.58
15:O:475:ARG:CB	16:P:367:PHE:HE2	2.16	0.58
15:O:577:LEU:HD22	16:P:502:ILE:CG2	2.33	0.58
16:P:95:LEU:CD1	16:P:100:ALA:CA	2.80	0.58
16:P:123:MET:O	16:P:125:PHE:CE1	2.56	0.58
16:P:207:LEU:N	16:P:208:PRO:HD3	2.18	0.58
3:C:148:LYS:HB2	3:C:151:THR:HG23	1.84	0.58
5:E:13:TRP:CE3	5:E:39:LEU:HD13	2.38	0.58
5:E:145:THR:HG21	5:E:187:TYR:CE2	2.38	0.58
15:O:206:ALA:HA	15:O:214:LEU:CD2	2.32	0.58
15:O:396:ALA:HB2	17:Q:140:ILE:HD12	1.83	0.58
15:O:408:ILE:HD11	15:O:464:LEU:HD22	1.84	0.58
15:O:611:ILE:HG12	15:O:731:LEU:CD2	2.33	0.58
16:P:100:ALA:HB1	16:P:209:ASN:CB	2.31	0.58
16:P:148:PRO:O	16:P:151:GLU:N	2.25	0.58
16:P:403:THR:HG23	16:P:405:ASP:H	1.53	0.58
17:Q:136:LYS:HG3	17:Q:136:LYS:O	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:600:MET:HE2	2:B:1079:LEU:HD21	1.85	0.58
1:A:1439:MET:HG3	1:A:1444:ARG:CZ	2.33	0.58
2:B:1062:GLY:HA2	20:T:19:DC:P	2.38	0.58
5:E:48:ASP:OD2	5:E:52:ARG:NE	2.28	0.58
5:E:78:LEU:HD23	5:E:79:TRP:N	2.18	0.58
5:E:107:THR:HG23	5:E:131:THR:HB	1.83	0.58
7:G:85:GLU:N	7:G:121:ASN:O	2.34	0.58
11:K:60:SER:HA	11:K:106:GLN:HA	1.85	0.58
15:O:292:LEU:HD13	15:O:294:PHE:H	1.68	0.58
16:P:50:GLY:H	20:T:23:DA:N6	2.02	0.58
16:P:108:PHE:CE1	16:P:156:LEU:CD1	2.85	0.58
16:P:108:PHE:CE1	16:P:156:LEU:HB2	2.38	0.58
16:P:246:GLU:CB	16:P:286:LEU:HB2	2.32	0.58
16:P:354:LYS:HZ3	16:P:362:THR:CG2	2.15	0.58
16:P:366:TYR:HE2	17:Q:218:ASP:OD2	1.85	0.58
1:A:94:LEU:HD22	1:A:356:PHE:HE1	1.68	0.58
1:A:451:VAL:O	1:A:451:VAL:HG12	2.03	0.58
1:A:720:PHE:HE2	8:H:141:TYR:HE2	1.51	0.58
1:A:1632:GLU:HG3	1:A:1634:LEU:H	1.69	0.58
2:B:117:VAL:HG23	17:Q:276:GLN:HB3	1.85	0.58
3:C:172:GLN:HB2	3:C:175:GLN:HE22	1.67	0.58
5:E:31:THR:N	5:E:34:GLU:OE1	2.28	0.58
7:G:69:LEU:CG	7:G:81:VAL:HG21	2.33	0.58
13:M:64:GLY:HA3	13:M:98:SER:OG	2.03	0.58
15:O:203:ILE:HG12	15:O:217:ALA:O	2.03	0.58
15:O:472:ARG:HD2	17:Q:200:THR:HG22	1.84	0.58
16:P:152:LEU:N	16:P:152:LEU:CD2	2.63	0.58
16:P:174:LEU:CB	16:P:175:PRO:HD3	2.32	0.58
16:P:198:ILE:C	16:P:200:PRO:HD3	2.23	0.58
16:P:360:LYS:HB2	16:P:360:LYS:NZ	2.16	0.58
16:P:372:GLU:C	16:P:374:THR:N	2.52	0.58
16:P:386:LEU:HA	16:P:388:THR:CG2	2.32	0.58
17:Q:34:ILE:HD13	17:Q:165:ILE:CD1	2.33	0.58
17:Q:295:PRO:C	17:Q:297:PHE:H	2.06	0.58
1:A:486:PRO:HB3	1:A:628:PHE:CE2	2.38	0.58
1:A:506:THR:HA	1:A:579:ARG:O	2.03	0.58
2:B:323:ARG:CZ	2:B:327:LEU:HD11	2.32	0.58
2:B:330:LEU:HD22	2:B:334:PHE:HE2	1.67	0.58
2:B:529:CYS:CB	2:B:698:SER:HB3	2.29	0.58
2:B:1104:CYS:HB2	2:B:1128:CYS:SG	2.43	0.58
5:E:156:LEU:HD12	5:E:195:VAL:HG12	1.84	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:10:ILE:HD13	14:N:54:TRP:HH2	1.69	0.58
13:M:109:ARG:HG2	13:M:110:GLY:N	2.18	0.58
15:O:277:VAL:HG22	15:O:283:ASP:O	2.03	0.58
15:O:366:PHE:HZ	15:O:426:ALA:O	1.87	0.58
15:O:389:TRP:CE3	17:Q:148:ASN:CA	2.46	0.58
15:O:672:ILE:CD1	15:O:734:LYS:CE	2.81	0.58
16:P:95:LEU:HG	16:P:99:GLU:CG	2.33	0.58
16:P:182:ILE:HD11	16:P:350:ARG:N	2.17	0.58
16:P:273:VAL:O	16:P:276:PHE:HB3	2.03	0.58
17:Q:380:SER:OG	17:Q:384:VAL:CG1	2.52	0.58
17:Q:388:LYS:CE	17:Q:393:ILE:HB	2.33	0.58
17:Q:390:ASN:O	17:Q:392:LEU:N	2.36	0.58
1:A:110:LEU:HD21	1:A:114:GLU:HG3	1.83	0.58
1:A:1263:LEU:CB	1:A:1496:SER:HB2	2.33	0.58
2:B:164:MET:CB	2:B:194:PHE:HE1	2.16	0.58
2:B:459:SER:O	2:B:463:TYR:CD2	2.56	0.58
2:B:574:SER:HB2	13:M:97:VAL:CG2	2.30	0.58
10:J:48:ARG:HG3	10:J:49:MET:N	2.18	0.58
15:O:369:PHE:O	15:O:370:GLN:HB2	2.04	0.58
15:O:578:PHE:CZ	16:P:312:LEU:HA	2.38	0.58
16:P:4:PHE:HE2	16:P:9:ILE:HG13	1.69	0.58
16:P:102:LEU:O	16:P:105:LEU:HB3	2.03	0.58
16:P:248:SER:O	16:P:249:CYS:CB	2.49	0.58
16:P:360:LYS:O	16:P:360:LYS:HG2	2.04	0.58
1:A:123:ARG:HG3	1:A:337:TYR:CE1	2.39	0.58
1:A:484:ILE:HA	1:A:614:LEU:O	2.04	0.58
1:A:594:THR:O	1:A:595:LEU:C	2.42	0.58
2:B:77:LYS:HG2	2:B:91:LEU:N	2.18	0.58
2:B:469:ASN:HA	2:B:481:VAL:O	2.04	0.58
2:B:810:ASP:OD1	2:B:811:LEU:N	2.36	0.58
5:E:32:GLN:HE21	5:E:36:GLU:HG3	1.68	0.58
5:E:88:VAL:HB	5:E:116:ILE:CB	2.33	0.58
7:G:58:LEU:O	7:G:62:MET:HG3	2.04	0.58
7:G:169:VAL:O	7:G:216:HIS:N	2.37	0.58
15:O:308:ASN:HB3	15:O:315:PHE:CD1	2.39	0.58
15:O:592:LEU:HD11	16:P:512:ARG:HE	0.75	0.58
15:O:653:SER:CB	15:O:656:HIS:ND1	2.61	0.58
16:P:102:LEU:O	16:P:106:LYS:HG3	2.04	0.58
16:P:195:ALA:CB	16:P:216:GLU:HB2	2.30	0.58
16:P:257:VAL:O	16:P:262:LEU:CA	2.52	0.58
16:P:259:GLN:HE21	16:P:259:GLN:C	2.06	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:341:ARG:NH1	16:P:341:ARG:HG2	2.17	0.58
16:P:367:PHE:HZ	17:Q:1:MET:CE	2.16	0.58
20:T:21:DT:C2	20:T:22:DG:C8	2.92	0.58
1:A:467:PHE:CE2	1:A:1618:THR:HG21	2.39	0.58
1:A:1326:GLU:OE2	1:A:1455:ARG:HG2	2.03	0.58
2:B:62:ASN:HA	2:B:65:VAL:HG22	1.85	0.58
2:B:225:ARG:NH1	2:B:261:ARG:HH22	2.02	0.58
2:B:311:ARG:NH1	9:I:18:GLU:HA	2.18	0.58
2:B:916:LYS:NZ	18:R:6:A:OP1	2.36	0.58
3:C:134:LEU:O	3:C:206:ALA:N	2.28	0.58
5:E:23:VAL:HG12	5:E:28:TYR:HB2	1.85	0.58
9:I:60:LEU:HD12	9:I:63:LYS:HB2	1.85	0.58
15:O:389:TRP:CH2	17:Q:147:GLN:C	2.76	0.58
15:O:577:LEU:CD2	16:P:499:LYS:NZ	2.67	0.58
17:Q:284:PHE:CZ	19:S:21:DT:H4'	2.25	0.58
1:A:203:THR:HG23	1:A:205:ARG:H	1.67	0.58
1:A:474:LYS:HD3	2:B:1058:GLN:NE2	2.19	0.58
1:A:853:THR:HG23	1:A:899:LYS:HE3	1.85	0.58
1:A:1118:VAL:HG12	5:E:154:ILE:CD1	2.34	0.58
1:A:1628:ASP:CB	1:A:1630:GLU:HG2	2.32	0.58
2:B:428:VAL:O	2:B:432:ILE:HG23	2.03	0.58
2:B:438:ILE:HD11	2:B:442:ASP:OD2	2.03	0.58
2:B:820:PRO:HG3	16:P:81:LEU:HD11	1.84	0.58
2:B:1127:CYS:HB3	2:B:1163:GLN:CB	2.33	0.58
6:F:89:GLU:OE2	6:F:136:ARG:NE	2.36	0.58
7:G:111:THR:HB	7:G:112:PRO:HD2	1.86	0.58
7:G:125:TRP:CZ2	7:G:127:PRO:HB3	2.38	0.58
14:N:101:GLN:OE1	14:N:104:LEU:HD13	2.04	0.58
15:O:18:UNK:CB	17:Q:253:ILE:CA	2.81	0.58
15:O:185:GLN:HB2	15:O:187:ILE:HD11	1.86	0.58
15:O:233:VAL:HG12	15:O:234:THR:N	2.18	0.58
15:O:310:TRP:O	15:O:311:ASP:CB	2.51	0.58
15:O:422:ILE:HG12	15:O:440:HIS:O	2.04	0.58
15:O:641:TRP:HH2	15:O:752:LEU:HD23	1.64	0.58
15:O:657:SER:HB3	15:O:746:ARG:HH11	1.67	0.58
17:Q:21:TYR:HE2	17:Q:124:GLU:OE2	1.86	0.58
17:Q:204:GLU:O	17:Q:206:ARG:HG2	2.04	0.58
17:Q:207:ASN:ND2	19:S:13:DA:OP2	2.36	0.58
17:Q:207:ASN:O	17:Q:210:THR:OG1	2.13	0.58
17:Q:290:TYR:N	17:Q:290:TYR:HD1	2.02	0.58
1:A:38:LEU:HG	1:A:43:HIS:N	2.19	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:233:CYS:HB3	1:A:238:MET:N	2.19	0.58
1:A:385:LEU:HD13	1:A:437:PHE:HA	1.85	0.58
1:A:520:ARG:CG	1:A:561:LEU:HD12	2.34	0.58
1:A:1090:ASP:OD2	1:A:1093:SER:N	2.33	0.58
2:B:268:GLU:OE2	19:S:39:DT:H4'	2.04	0.58
2:B:679:GLN:N	2:B:679:GLN:OE1	2.36	0.58
3:C:152:ASP:C	3:C:154:LYS:N	2.57	0.58
3:C:284:GLU:O	3:C:288:LYS:HE3	2.04	0.58
5:E:54:GLN:O	5:E:58:MET:N	2.36	0.58
7:G:168:PHE:HD1	7:G:217:TRP:HD1	1.48	0.58
13:M:33:PRO:HD2	13:M:36:THR:HB	1.86	0.58
14:N:111:VAL:HG23	14:N:120:LYS:CB	2.33	0.58
15:O:374:VAL:C	15:O:375:PHE:CG	2.78	0.58
15:O:573:GLU:CB	16:P:496:GLU:OE1	2.52	0.58
16:P:101:LYS:HZ3	16:P:152:LEU:HD13	0.75	0.58
16:P:212:VAL:O	16:P:215:LEU:CD1	2.52	0.58
16:P:403:THR:HG22	16:P:406:GLN:N	1.96	0.58
17:Q:29:ARG:CA	17:Q:32:ASP:OD2	2.43	0.58
1:A:363:PRO:HB3	2:B:1180:PHE:CE2	2.39	0.57
1:A:432:ASN:HD21	1:A:444:GLN:H	1.52	0.57
2:B:74:PHE:O	2:B:76:GLY:N	2.37	0.57
15:O:270:GLN:NE2	15:O:339:ARG:HH22	2.01	0.57
15:O:491:SER:OG	15:O:492:LEU:N	2.37	0.57
15:O:623:LEU:HD12	15:O:668:SER:O	1.98	0.57
15:O:702:LEU:HD23	16:P:125:PHE:CE2	2.27	0.57
16:P:127:LYS:HB3	16:P:131:HIS:CE1	2.39	0.57
17:Q:381:ARG:C	17:Q:383:PHE:H	2.07	0.57
2:B:359:LEU:HB2	2:B:370:LYS:HG2	1.86	0.57
2:B:415:GLU:CG	2:B:472:SER:HB2	2.23	0.57
2:B:1133:MET:HE1	7:G:15:ARG:HH22	1.67	0.57
5:E:6:GLU:OE2	5:E:43:LYS:NZ	2.34	0.57
5:E:143:ASN:CG	5:E:145:THR:HG1	2.03	0.57
15:O:536:ASP:HB2	15:O:549:TYR:CE1	2.40	0.57
16:P:197:GLU:CG	16:P:198:ILE:N	2.54	0.57
16:P:200:PRO:CA	16:P:203:TRP:HD1	2.16	0.57
16:P:386:LEU:HD23	16:P:387:PRO:HD3	1.84	0.57
17:Q:31:PHE:O	17:Q:34:ILE:N	2.37	0.57
17:Q:155:GLN:HE21	17:Q:156:LYS:N	2.02	0.57
2:B:372:ARG:CZ	2:B:573:ALA:HB3	2.34	0.57
2:B:468:GLY:O	2:B:482:SER:HA	2.04	0.57
2:B:864:ASP:CB	16:P:84:GLN:HE22	2.17	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:147:PRO:O	3:C:149:GLY:N	2.37	0.57
7:G:40:ARG:HD3	7:G:123:TYR:CE1	2.39	0.57
15:O:424:VAL:HG23	15:O:424:VAL:O	2.03	0.57
15:O:529:GLU:HB2	15:O:531:PHE:HE2	1.68	0.57
15:O:580:ASN:HB2	16:P:506:LYS:HZ1	1.68	0.57
16:P:219:ILE:HD13	17:Q:207:ASN:CA	2.23	0.57
1:A:85:CYS:O	1:A:357:MET:N	2.33	0.57
15:O:263:ILE:HG22	15:O:264:ILE:N	2.18	0.57
15:O:323:ASN:O	15:O:348:HIS:HB2	2.04	0.57
16:P:366:TYR:CE2	17:Q:218:ASP:OD2	2.57	0.57
16:P:416:ILE:C	16:P:418:PRO:HD3	2.22	0.57
17:Q:361:ASP:CG	17:Q:362:ALA:N	2.53	0.57
1:A:912:VAL:CG1	1:A:913:PRO:HD2	2.31	0.57
2:B:114:SER:O	2:B:115:SER:CB	2.52	0.57
2:B:317:TYR:HB3	2:B:320:LEU:HD12	1.86	0.57
2:B:1061:LYS:HD2	16:P:46:ASP:HB2	1.86	0.57
10:J:6:ARG:HG2	10:J:13:VAL:HA	1.87	0.57
13:M:27:PHE:CZ	13:M:30:PHE:HA	2.39	0.57
14:N:45:LYS:CB	14:N:49:LYS:HG2	2.35	0.57
15:O:195:ASN:N	15:O:197:ARG:HH12	2.01	0.57
15:O:369:PHE:CE2	15:O:432:PRO:CG	2.74	0.57
15:O:392:GLU:HG2	15:O:392:GLU:O	2.03	0.57
15:O:436:ILE:CG1	17:Q:141:TRP:HZ3	2.15	0.57
15:O:506:THR:CG2	15:O:540:LYS:HG2	2.34	0.57
15:O:619:GLU:HA	15:O:622:TYR:CD2	2.30	0.57
16:P:104:PHE:CE1	16:P:211:TYR:C	2.78	0.57
16:P:408:ILE:HG22	16:P:412:LYS:HE3	1.87	0.57
17:Q:127:PHE:CD1	17:Q:131:TYR:HE2	2.09	0.57
17:Q:398:ASP:CG	17:Q:401:ILE:HD12	2.25	0.57
1:A:594:THR:CG2	2:B:1075:GLU:CG	2.82	0.57
2:B:74:PHE:C	2:B:76:GLY:N	2.58	0.57
5:E:55:ARG:HB3	5:E:82:PHE:O	2.04	0.57
7:G:132:VAL:HA	7:G:231:PHE:O	2.04	0.57
16:P:496:GLU:OE2	16:P:496:GLU:HA	2.03	0.57
17:Q:281:LYS:CA	17:Q:301:SER:HB3	2.26	0.57
1:A:988:SER:CB	2:B:988:GLU:HG2	2.34	0.57
9:I:29:GLU:HG2	9:I:36:ILE:CD1	2.35	0.57
13:M:38:PHE:HB3	13:M:53:LEU:HD21	1.87	0.57
15:O:309:PRO:O	15:O:368:HIS:HD2	1.81	0.57
15:O:329:ILE:CG2	15:O:340:LYS:HB3	2.34	0.57
15:O:422:ILE:O	15:O:439:LYS:CA	2.52	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:428:GLU:CA	15:O:435:ARG:CD	2.65	0.57
15:O:511:ILE:HD12	15:O:537:PHE:HA	1.85	0.57
15:O:533:LEU:HD12	15:O:533:LEU:O	2.05	0.57
15:O:620:ASP:CG	15:O:674:GLU:CG	2.73	0.57
15:O:653:SER:OG	15:O:747:LEU:C	2.43	0.57
15:O:656:HIS:O	15:O:747:LEU:N	2.37	0.57
16:P:209:ASN:O	16:P:210:TYR:CD2	2.57	0.57
16:P:238:HIS:CE1	16:P:289:ARG:NE	2.71	0.57
16:P:488:LEU:HD23	16:P:488:LEU:C	2.25	0.57
2:B:96:SER:O	2:B:144:SER:O	2.22	0.57
2:B:161:LEU:CG	2:B:409:TYR:OH	2.53	0.57
2:B:186:GLU:OE1	2:B:731:VAL:HG22	2.04	0.57
2:B:811:LEU:C	2:B:813:LEU:N	2.54	0.57
3:C:195:LYS:NZ	10:J:58:GLU:OE2	2.28	0.57
5:E:20:LYS:NZ	5:E:34:GLU:O	2.21	0.57
6:F:79:ARG:HA	6:F:144:GLU:OE2	2.05	0.57
7:G:148:LEU:HD12	7:G:153:PHE:O	2.04	0.57
9:I:28:VAL:H	9:I:37:TYR:H	1.52	0.57
14:N:166:LEU:HD12	14:N:166:LEU:O	2.04	0.57
15:O:310:TRP:CD2	15:O:310:TRP:O	2.56	0.57
15:O:722:TRP:CE3	15:O:733:THR:HG22	2.36	0.57
17:Q:280:SER:C	17:Q:282:SER:H	2.08	0.57
1:A:55:GLY:C	1:A:62:CYS:HA	2.25	0.57
1:A:258:GLU:O	1:A:262:THR:OG1	2.10	0.57
5:E:2:ASP:O	5:E:6:GLU:CB	2.53	0.57
5:E:68:SER:HB3	5:E:75:MET:CE	2.35	0.57
6:F:74:ILE:HD11	6:F:142:SER:HB3	1.85	0.57
15:O:273:ARG:NH1	15:O:274:ILE:O	2.38	0.57
15:O:324:TRP:CZ2	15:O:346:ASN:O	2.58	0.57
15:O:393:VAL:HG11	17:Q:144:VAL:CB	2.26	0.57
15:O:669:PHE:HB2	15:O:674:GLU:HB2	1.87	0.57
16:P:93:LYS:HD3	16:P:207:LEU:HD13	1.85	0.57
16:P:238:HIS:HE1	16:P:289:ARG:NH2	2.00	0.57
16:P:403:THR:HG22	16:P:406:GLN:HG2	1.86	0.57
17:Q:266:SER:OG	17:Q:269:ASP:OD1	2.13	0.57
17:Q:354:LEU:CD1	17:Q:359:MET:HA	2.35	0.57
1:A:504:LYS:NZ	16:P:23:ILE:HG21	2.20	0.57
1:A:1261:VAL:HA	1:A:1265:GLU:OE1	2.05	0.57
2:B:362:LEU:CD1	2:B:370:LYS:HA	2.35	0.57
5:E:79:TRP:CD1	5:E:100:ILE:HD11	2.40	0.57
7:G:45:LEU:C	7:G:45:LEU:HD12	2.24	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:40:LEU:HD12	8:H:122:LEU:O	2.05	0.57
13:M:81:PHE:CE2	13:M:83:PRO:HA	2.40	0.57
14:N:45:LYS:HG2	14:N:49:LYS:CG	2.35	0.57
15:O:200:THR:CB	15:O:218:VAL:HG13	2.34	0.57
15:O:659:LEU:HB2	15:O:742:TRP:CE2	2.40	0.57
16:P:115:GLN:OE1	16:P:161:THR:HG22	2.04	0.57
17:Q:133:LYS:HE3	17:Q:134:PRO:HD3	1.87	0.57
1:A:475:ARG:NH2	2:B:1061:LYS:CE	2.27	0.56
1:A:982:VAL:HG13	1:A:994:GLU:CD	2.26	0.56
1:A:1657:LEU:HB3	7:G:104:LEU:HG	1.87	0.56
2:B:436:MET:O	2:B:436:MET:HG2	2.05	0.56
2:B:1061:LYS:HD2	16:P:46:ASP:CB	2.35	0.56
3:C:45:SER:OG	3:C:271:ARG:NH1	2.37	0.56
7:G:26:ASN:CG	7:G:37:CYS:HA	2.25	0.56
14:N:26:PRO:HG2	14:N:29:PHE:CD2	2.40	0.56
15:O:197:ARG:O	15:O:199:GLY:N	2.38	0.56
15:O:299:ASP:CB	17:Q:159:TYR:HD2	2.17	0.56
15:O:472:ARG:HH22	17:Q:200:THR:N	1.95	0.56
15:O:604:ILE:HG23	15:O:732:LEU:HD23	1.87	0.56
16:P:101:LYS:CE	16:P:152:LEU:HA	2.34	0.56
16:P:137:TRP:HE1	16:P:141:LEU:HD21	1.70	0.56
16:P:225:GLN:C	16:P:226:LEU:HD13	2.25	0.56
16:P:366:TYR:CE2	17:Q:218:ASP:HB2	2.40	0.56
16:P:370:SER:OG	16:P:373:GLU:OE1	2.22	0.56
17:Q:4:VAL:CG2	17:Q:214:VAL:HG22	2.32	0.56
17:Q:177:LEU:HD11	17:Q:188:PHE:CD2	2.39	0.56
1:A:591:ARG:HD3	1:A:624:TYR:HB3	1.87	0.56
1:A:921:PRO:CD	8:H:19:ARG:HG2	2.35	0.56
3:C:47:LEU:HD11	3:C:311:GLU:HB3	1.87	0.56
7:G:237:HIS:HB2	7:G:244:SER:HB2	1.86	0.56
15:O:188:GLN:HB2	15:O:199:GLY:HA2	0.62	0.56
15:O:611:ILE:CD1	15:O:731:LEU:HG	2.35	0.56
16:P:235:GLY:HA2	16:P:289:ARG:CD	2.35	0.56
16:P:494:SER:C	16:P:496:GLU:N	2.37	0.56
17:Q:274:MET:C	17:Q:277:ILE:HG22	2.24	0.56
1:A:52:LEU:HD13	1:A:60:ASN:HB3	1.88	0.56
1:A:415:ASP:OD1	1:A:416:ARG:NH2	2.37	0.56
1:A:484:ILE:HG21	1:A:633:MET:SD	2.45	0.56
1:A:497:VAL:HG21	1:A:605:VAL:HG13	1.86	0.56
1:A:676:ALA:CB	1:A:821:ILE:HD11	2.34	0.56
1:A:920:PHE:C	1:A:922:CYS:N	2.50	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1233:ILE:HG22	1:A:1235:THR:H	1.71	0.56
1:A:1262:LEU:H	1:A:1265:GLU:CD	2.09	0.56
1:A:1565:GLU:O	1:A:1569:VAL:HG23	2.05	0.56
2:B:62:ASN:HA	2:B:65:VAL:CG2	2.35	0.56
2:B:429:ARG:HA	2:B:432:ILE:HD11	1.87	0.56
2:B:864:ASP:OD2	16:P:84:GLN:OE1	2.23	0.56
5:E:13:TRP:HB2	5:E:42:PHE:CD2	2.41	0.56
5:E:19:VAL:HG11	5:E:80:VAL:HG11	1.86	0.56
5:E:153:HIS:HB3	5:E:188:LEU:HD11	1.88	0.56
7:G:166:TRP:CZ3	7:G:225:ILE:HG21	2.33	0.56
8:H:10:PHE:O	8:H:54:SER:HA	2.04	0.56
8:H:116:TYR:HD2	8:H:123:MET:CE	2.19	0.56
9:I:30:CYS:O	9:I:33:CYS:O	2.24	0.56
11:K:74:ASN:HA	11:K:77:ARG:HG2	1.87	0.56
14:N:33:LYS:C	14:N:115:SER:HB3	2.26	0.56
14:N:109:LEU:HD23	14:N:122:ALA:CB	2.35	0.56
15:O:200:THR:HB	15:O:218:VAL:CG1	2.36	0.56
15:O:214:LEU:N	15:O:236:ILE:CB	2.69	0.56
15:O:329:ILE:HB	15:O:330:PRO:HD2	1.85	0.56
15:O:368:HIS:ND1	15:O:368:HIS:O	2.38	0.56
15:O:380:MET:H	15:O:394:VAL:HG23	1.68	0.56
15:O:540:LYS:C	15:O:541:LEU:HD12	2.25	0.56
15:O:554:ASN:O	15:O:555:THR:HG23	2.04	0.56
15:O:611:ILE:HD13	15:O:731:LEU:HB3	1.87	0.56
15:O:669:PHE:CZ	15:O:738:LYS:HG3	2.40	0.56
15:O:736:ILE:HA	15:O:739:ASP:OD2	2.05	0.56
16:P:93:LYS:HD3	16:P:207:LEU:CD1	2.34	0.56
16:P:95:LEU:HD12	16:P:100:ALA:CA	2.34	0.56
16:P:154:LEU:H	16:P:154:LEU:CD2	2.07	0.56
16:P:171:HIS:CE1	16:P:243:PHE:CD1	2.94	0.56
16:P:219:ILE:CG1	16:P:220:SER:H	2.18	0.56
16:P:225:GLN:NE2	20:T:46:DT:H4'	2.21	0.56
16:P:247:ILE:HG22	16:P:284:LEU:HD11	1.75	0.56
16:P:332:LEU:O	16:P:336:GLU:HB2	2.04	0.56
16:P:403:THR:O	16:P:405:ASP:N	2.39	0.56
17:Q:29:ARG:O	17:Q:32:ASP:OD1	2.24	0.56
17:Q:33:ARG:HB2	17:Q:33:ARG:CZ	2.35	0.56
1:A:544:VAL:HG22	16:P:33:HIS:HB2	1.87	0.56
2:B:896:GLN:OE1	12:L:45:ALA:HA	2.06	0.56
2:B:931:TRP:HB3	2:B:936:MET:SD	2.45	0.56
2:B:1152:PHE:HB2	2:B:1163:GLN:HE21	1.69	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:82:PHE:HD1	5:E:111:VAL:HB	1.71	0.56
5:E:169:ARG:HB3	6:F:140:ASP:HB2	1.86	0.56
15:O:230:HIS:HB3	15:O:280:ARG:HH22	1.70	0.56
15:O:266:GLU:O	15:O:300:LEU:HD21	2.06	0.56
15:O:326:ILE:H	15:O:344:ILE:HG12	1.71	0.56
15:O:394:VAL:HG12	17:Q:141:TRP:HE1	1.69	0.56
15:O:436:ILE:CG2	17:Q:141:TRP:CZ2	2.87	0.56
15:O:618:ASP:CG	15:O:622:TYR:CE2	2.78	0.56
15:O:669:PHE:CD1	15:O:675:PHE:HB2	2.40	0.56
15:O:718:LEU:HD21	15:O:737:VAL:HG11	1.86	0.56
16:P:209:ASN:CB	16:P:211:TYR:CZ	2.84	0.56
16:P:286:LEU:CD2	16:P:287:TRP:O	2.38	0.56
16:P:290:THR:HG21	16:P:298:VAL:CG2	2.36	0.56
16:P:488:LEU:C	16:P:493:ILE:HG23	2.25	0.56
17:Q:352:TRP:C	17:Q:353:VAL:HG12	2.26	0.56
1:A:6:PRO:HG3	7:G:113:PHE:CD2	2.40	0.56
1:A:40:ASN:C	1:A:42:GLY:H	2.09	0.56
1:A:104:PHE:CB	1:A:238:MET:HG3	2.35	0.56
1:A:486:PRO:HB3	1:A:628:PHE:CZ	2.41	0.56
1:A:593:PRO:C	1:A:595:LEU:H	2.09	0.56
2:B:12:ARG:HA	2:B:15:ASP:OD1	2.05	0.56
2:B:940:GLU:HG2	2:B:1014:TYR:HE2	1.71	0.56
2:B:1070:ARG:HB2	20:T:18:DG:OP2	2.06	0.56
2:B:1156:SER:OG	2:B:1158:ILE:HG12	2.05	0.56
7:G:162:ILE:HG12	7:G:249:LEU:CD1	2.17	0.56
12:L:48:CYS:HB3	12:L:53:HIS:H	1.70	0.56
15:O:303:VAL:CG1	15:O:361:LYS:H	2.19	0.56
15:O:436:ILE:HG21	17:Q:141:TRP:CE2	2.40	0.56
16:P:113:LYS:C	16:P:116:ILE:HG13	2.24	0.56
16:P:287:TRP:CE3	16:P:298:VAL:HG11	2.40	0.56
16:P:400:MET:N	16:P:400:MET:SD	2.78	0.56
17:Q:186:LEU:HD12	17:Q:187:TYR:N	2.20	0.56
1:A:10:GLU:OE1	1:A:1645:LYS:NZ	2.39	0.56
1:A:64:THR:HG23	2:B:1154:ASP:OD2	2.05	0.56
1:A:969:PHE:CZ	1:A:978:ALA:HA	2.40	0.56
1:A:1089:LEU:HB2	1:A:1131:LYS:O	2.05	0.56
1:A:1610:PHE:HD2	1:A:1632:GLU:HG2	1.70	0.56
1:A:1643:VAL:HG12	1:A:1643:VAL:O	2.05	0.56
2:B:78:PRO:O	2:B:79:LEU:CG	2.54	0.56
2:B:146:ASN:HB3	2:B:149:GLU:HB2	1.88	0.56
2:B:464:PHE:CD1	2:B:470:LEU:HA	2.41	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:970:LYS:NZ	2:B:1009:GLY:O	2.38	0.56
3:C:222:VAL:HG23	3:C:303:GLU:O	2.06	0.56
5:E:61:GLN:NE2	5:E:77:SER:OG	2.29	0.56
5:E:97:VAL:HG13	5:E:127:ILE:CD1	2.36	0.56
7:G:48:SER:HA	7:G:115:PHE:CD1	2.41	0.56
11:K:54:THR:HG23	11:K:60:SER:O	2.06	0.56
15:O:275:GLU:HG3	15:O:285:MET:HG2	1.88	0.56
15:O:364:GLU:OE1	15:O:364:GLU:HA	2.06	0.56
15:O:433:VAL:HG12	17:Q:144:VAL:CG2	2.35	0.56
15:O:750:PRO:C	15:O:752:LEU:N	2.59	0.56
16:P:158:MET:HE1	16:P:219:ILE:HG23	1.88	0.56
16:P:369:TRP:CH2	16:P:377:PHE:CE1	2.79	0.56
16:P:491:PHE:CD1	16:P:491:PHE:N	2.72	0.56
17:Q:158:THR:O	17:Q:160:HIS:CA	2.52	0.56
17:Q:247:ILE:HG23	17:Q:278:TYR:HE2	1.58	0.56
1:A:55:GLY:C	1:A:62:CYS:HB2	2.26	0.56
1:A:399:LEU:HD11	1:A:422:ARG:C	2.26	0.56
1:A:1527:GLN:HG3	1:A:1530:TRP:CZ3	2.41	0.56
1:A:1599:ASN:OD1	1:A:1601:GLN:N	2.38	0.56
13:M:41:TYR:CZ	14:N:24:SER:HA	2.41	0.56
15:O:9:UNK:O	15:O:11:UNK:N	2.39	0.56
15:O:577:LEU:HD22	16:P:502:ILE:HG22	1.88	0.56
15:O:623:LEU:HD13	15:O:669:PHE:HA	1.88	0.56
15:O:736:ILE:HA	15:O:739:ASP:CG	2.26	0.56
16:P:257:VAL:CB	16:P:262:LEU:CD1	2.83	0.56
17:Q:152:ILE:O	17:Q:154:LYS:CA	2.50	0.56
17:Q:410:TYR:CZ	17:Q:414:PHE:HZ	2.23	0.56
1:A:378:HIS:CA	16:P:54:GLY:O	2.36	0.56
1:A:1039:ARG:NH1	6:F:139:PRO:HG2	2.20	0.56
1:A:1290:TYR:CD1	1:A:1485:MET:HE2	2.40	0.56
2:B:284:SER:OG	2:B:287:GLU:HG3	2.05	0.56
2:B:1014:TYR:CD1	2:B:1021:GLU:HA	2.41	0.56
2:B:1104:CYS:CB	2:B:1128:CYS:SG	2.93	0.56
7:G:45:LEU:HD12	7:G:45:LEU:O	2.05	0.56
14:N:59:PRO:O	14:N:62:VAL:HG22	2.05	0.56
15:O:319:ASP:HA	15:O:324:TRP:HA	1.87	0.56
15:O:635:ASN:O	15:O:639:GLU:N	2.34	0.56
16:P:46:ASP:CA	20:T:21:DT:H71	2.35	0.56
16:P:287:TRP:CZ2	16:P:298:VAL:HG13	2.37	0.56
1:A:53:ALA:HA	1:A:63:SER:HB2	1.88	0.56
1:A:62:CYS:HB3	1:A:72:CYS:SG	2.39	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1003:ARG:CZ	2:B:520:LEU:HD13	2.36	0.56
2:B:817:ARG:N	19:S:26:DT:H5"	2.20	0.56
2:B:1139:LYS:O	2:B:1140:LYS:C	2.44	0.56
2:B:1139:LYS:C	2:B:1141:LEU:N	2.59	0.56
3:C:39:ASP:OD2	3:C:58:ASN:HB3	2.06	0.56
3:C:40:PHE:CE2	3:C:42:VAL:HG23	2.41	0.56
5:E:10:SER:HB2	5:E:39:LEU:HD21	1.86	0.56
6:F:127:GLU:CB	6:F:129:LYS:HD3	2.36	0.56
7:G:132:VAL:O	7:G:133:LEU:HD23	2.05	0.56
15:O:14:UNK:CB	15:O:438:TRP:HE3	2.19	0.56
15:O:352:PHE:HB3	15:O:354:PRO:CG	2.35	0.56
15:O:431:ASP:CG	15:O:432:PRO:CD	2.75	0.56
15:O:596:ILE:CG2	16:P:317:MET:HE1	2.31	0.56
16:P:39:VAL:HG23	16:P:41:PHE:CZ	2.40	0.56
16:P:104:PHE:HB2	16:P:211:TYR:CB	2.36	0.56
16:P:149:GLN:HB2	16:P:150:GLU:OE1	2.06	0.56
16:P:158:MET:C	16:P:192:TYR:HE1	2.10	0.56
1:A:544:VAL:HG22	16:P:33:HIS:CB	2.36	0.56
1:A:821:ILE:HG22	2:B:778:TYR:HA	1.88	0.56
1:A:1320:GLN:NE2	1:A:1497:ILE:H	2.03	0.56
2:B:1052:VAL:CG2	16:P:41:PHE:HD1	1.89	0.56
3:C:70:ILE:HG23	3:C:74:GLU:HB2	1.87	0.56
7:G:69:LEU:CD2	7:G:81:VAL:HG21	2.35	0.56
8:H:12:VAL:HG23	8:H:53:ASP:O	2.05	0.56
14:N:88:LYS:HG3	14:N:142:THR:OG1	2.05	0.56
15:O:19:UNK:CB	17:Q:255:VAL:HG21	2.31	0.56
15:O:294:PHE:CD2	15:O:300:LEU:HB3	2.41	0.56
15:O:472:ARG:NH1	17:Q:200:THR:CG2	2.59	0.56
15:O:500:ILE:HG23	15:O:501:PRO:CD	2.32	0.56
15:O:641:TRP:CZ2	15:O:752:LEU:CD2	2.87	0.56
16:P:135:ILE:O	16:P:139:LYS:HG3	2.05	0.56
16:P:137:TRP:HA	16:P:140:ILE:HD12	1.87	0.56
16:P:209:ASN:O	16:P:210:TYR:HD2	1.89	0.56
17:Q:290:TYR:N	17:Q:290:TYR:CD1	2.73	0.56
1:A:1460:TYR:HE1	1:A:1462:PHE:HB2	1.71	0.55
1:A:1657:LEU:HD23	7:G:105:ILE:C	2.27	0.55
2:B:513:LYS:HG3	2:B:514:THR:N	2.20	0.55
2:B:614:GLU:HG3	2:B:615:GLY:N	2.21	0.55
2:B:726:MET:HG3	2:B:742:TYR:CB	2.35	0.55
2:B:746:THR:HG21	10:J:8:PHE:HZ	1.71	0.55
2:B:1084:THR:O	2:B:1087:LEU:N	2.39	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:27:GLU:OE2	8:H:39:THR:HG23	2.06	0.55
14:N:25:ILE:CB	14:N:26:PRO:HD3	2.05	0.55
15:O:275:GLU:O	15:O:284:VAL:HG12	2.03	0.55
15:O:433:VAL:CG1	17:Q:144:VAL:HG22	2.36	0.55
15:O:454:GLN:HE22	15:O:513:THR:HG22	1.71	0.55
15:O:686:TYR:HD2	15:O:692:THR:HG21	1.59	0.55
16:P:219:ILE:CD1	17:Q:207:ASN:CA	2.80	0.55
16:P:337:SER:HB3	16:P:448:LYS:HD3	1.87	0.55
17:Q:248:LYS:HA	17:Q:248:LYS:NZ	2.21	0.55
1:A:1217:LEU:HD11	1:A:1572:ARG:NH2	2.22	0.55
2:B:262:PHE:CZ	2:B:269:TYR:HB2	2.41	0.55
4:D:27:LEU:CD1	4:D:28:PRO:HD2	2.35	0.55
5:E:156:LEU:HD21	5:E:197:LYS:HB2	1.89	0.55
13:M:65:TYR:HA	13:M:96:LEU:HD22	1.87	0.55
14:N:26:PRO:C	14:N:28:GLY:N	2.47	0.55
15:O:262:GLY:C	15:O:263:ILE:HG13	2.27	0.55
15:O:303:VAL:O	15:O:304:ASP:HB2	2.07	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	2.89	0.55
15:O:474:LYS:HD2	15:O:499:GLU:O	2.05	0.55
16:P:135:ILE:HD11	16:P:243:PHE:HZ	1.70	0.55
16:P:195:ALA:HB3	16:P:215:LEU:HG	1.87	0.55
16:P:257:VAL:HB	16:P:262:LEU:CD1	2.36	0.55
16:P:336:GLU:O	16:P:338:LEU:N	2.40	0.55
17:Q:1:MET:N	17:Q:218:ASP:OD2	2.39	0.55
1:A:611:GLU:HG3	1:A:613:THR:H	1.71	0.55
1:A:677:GLY:O	1:A:681:THR:OG1	2.11	0.55
1:A:925:MET:HA	1:A:928:MET:HE3	1.87	0.55
2:B:479:GLN:C	19:S:39:DT:O4	2.45	0.55
15:O:380:MET:HG3	15:O:402:ILE:CD1	2.36	0.55
15:O:446:ASP:OD1	15:O:448:THR:N	2.34	0.55
15:O:698:LYS:CD	16:P:124:ARG:O	2.55	0.55
15:O:722:TRP:CG	16:P:264:PRO:HG3	2.42	0.55
16:P:48:LEU:C	16:P:49:ASN:O	2.26	0.55
16:P:147:GLN:H	16:P:148:PRO:HD3	1.61	0.55
16:P:215:LEU:HD22	16:P:215:LEU:H	1.72	0.55
1:A:485:SER:O	1:A:615:ARG:HD3	2.06	0.55
1:A:1102:LEU:CA	1:A:1105:ARG:HH21	2.19	0.55
2:B:502:MET:HG3	2:B:542:LEU:HG	1.89	0.55
2:B:657:PRO:HD3	14:N:148:ILE:HD11	1.88	0.55
2:B:1061:LYS:CB	16:P:45:GLU:HB3	2.29	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1162:GLY:C	2:B:1164:GLY:H	2.09	0.55
3:C:169:PHE:CE2	3:C:171:PRO:HB3	2.42	0.55
9:I:3:VAL:HA	9:I:8:ILE:HA	1.88	0.55
9:I:26:SER:C	9:I:37:TYR:CE2	2.67	0.55
13:M:43:LYS:O	13:M:49:ASP:CG	2.41	0.55
14:N:52:GLN:HG2	14:N:134:ASP:OD2	2.06	0.55
15:O:707:ASP:OD2	16:P:439:ILE:HG12	2.07	0.55
16:P:169:SER:OG	16:P:175:PRO:HD2	2.06	0.55
16:P:209:ASN:O	16:P:211:TYR:HD1	1.89	0.55
16:P:235:GLY:N	16:P:289:ARG:CA	2.68	0.55
17:Q:25:ASN:HA	17:Q:28:SER:HB3	1.86	0.55
17:Q:125:ARG:HH12	19:S:19:DG:C3'	2.18	0.55
17:Q:212:HIS:O	17:Q:215:THR:CA	2.53	0.55
1:A:801:TYR:HB3	1:A:805:VAL:HG21	1.87	0.55
1:A:855:ARG:NH1	1:A:867:ASP:HA	2.19	0.55
1:A:949:GLN:NE2	1:A:950:GLN:O	2.32	0.55
6:F:93:ILE:CG1	6:F:134:ILE:HD11	2.37	0.55
7:G:48:SER:CB	7:G:115:PHE:HE1	2.19	0.55
7:G:75:ASN:OD1	7:G:76:LYS:HG2	2.06	0.55
7:G:226:ASP:OD1	7:G:227:GLY:N	2.38	0.55
15:O:352:PHE:O	15:O:353:ASP:C	2.44	0.55
15:O:513:THR:HG23	15:O:513:THR:O	2.07	0.55
15:O:581:ALA:C	15:O:585:GLU:HB3	2.23	0.55
15:O:705:HIS:CE1	15:O:707:ASP:HB2	2.39	0.55
16:P:85:GLN:HG2	16:P:89:HIS:ND1	2.20	0.55
17:Q:365:TRP:HA	17:Q:365:TRP:HE3	1.72	0.55
2:B:35:PHE:N	2:B:36:PRO:HD3	2.21	0.55
2:B:858:ILE:HG23	2:B:903:ILE:HD13	1.86	0.55
13:M:82:ASN:OD1	13:M:84:GLU:N	2.30	0.55
14:N:45:LYS:HB2	14:N:49:LYS:HG2	1.88	0.55
15:O:326:ILE:N	15:O:344:ILE:HD11	2.20	0.55
15:O:463:LEU:HA	15:O:482:SER:HA	1.89	0.55
16:P:330:TRP:NE1	16:P:452:PHE:CD1	2.75	0.55
16:P:499:LYS:HA	16:P:502:ILE:HB	1.88	0.55
1:A:538:ASN:HB2	1:A:540:ASP:OD1	2.06	0.55
2:B:423:ASN:HB3	2:B:453:VAL:CG2	2.37	0.55
2:B:705:PRO:CB	2:B:981:SER:HB2	2.37	0.55
5:E:37:LEU:HD12	5:E:38:PRO:HD2	1.89	0.55
9:I:38:PRO:O	9:I:39:LYS:C	2.38	0.55
14:N:107:MET:HA	14:N:107:MET:HE2	1.87	0.55
14:N:135:LYS:HE3	14:N:137:PHE:HZ	1.71	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:315:PHE:O	15:O:316:ALA:C	2.44	0.55
15:O:413:GLY:HA2	15:O:426:ALA:CB	2.36	0.55
15:O:440:HIS:CE1	15:O:481:PHE:HZ	2.02	0.55
15:O:440:HIS:CD2	15:O:479:HIS:CD2	2.94	0.55
15:O:705:HIS:O	15:O:705:HIS:CG	2.59	0.55
16:P:110:PHE:CE2	16:P:198:ILE:CG2	2.90	0.55
16:P:365:ASP:O	16:P:366:TYR:C	2.45	0.55
16:P:378:LEU:HD12	17:Q:235:ILE:N	2.20	0.55
17:Q:355:THR:N	17:Q:359:MET:HB2	2.22	0.55
1:A:1223:ARG:HG3	1:A:1227:MET:SD	2.47	0.55
2:B:110:ASN:HB3	2:B:118:GLU:CG	2.37	0.55
2:B:810:ASP:OD1	2:B:812:ALA:N	2.33	0.55
3:C:89:THR:OG1	3:C:201:GLU:N	2.38	0.55
3:C:283:GLU:H	3:C:283:GLU:CD	2.08	0.55
7:G:24:VAL:HG21	7:G:126:GLN:HE22	1.71	0.55
7:G:38:ILE:CG1	7:G:125:TRP:HD1	2.20	0.55
9:I:30:CYS:HB3	9:I:33:CYS:O	2.06	0.55
15:O:380:MET:HG3	15:O:402:ILE:HD13	1.89	0.55
16:P:137:TRP:CZ3	16:P:140:ILE:HG21	2.42	0.55
16:P:352:ILE:C	16:P:355:VAL:HG23	2.27	0.55
16:P:366:TYR:CE2	17:Q:218:ASP:CB	2.90	0.55
17:Q:290:TYR:O	17:Q:294:VAL:CG1	2.55	0.55
17:Q:291:ARG:O	17:Q:291:ARG:CG	2.45	0.55
1:A:372:LYS:CB	1:A:377:VAL:HG13	2.34	0.55
1:A:733:THR:HG23	1:A:775:ALA:HA	1.88	0.55
1:A:921:PRO:O	1:A:922:CYS:SG	2.64	0.55
1:A:1221:ARG:O	1:A:1225:ILE:HG13	2.07	0.55
1:A:1236:PRO:HB2	1:A:1524:VAL:HG23	1.89	0.55
2:B:91:LEU:O	2:B:91:LEU:HD22	2.07	0.55
2:B:985:ILE:HG12	14:N:160:VAL:CG1	2.36	0.55
2:B:1195:ARG:HH21	7:G:117:TRP:HZ2	1.55	0.55
5:E:23:VAL:CG1	5:E:28:TYR:HB2	2.37	0.55
13:M:36:THR:HG23	13:M:38:PHE:CE1	2.42	0.55
14:N:45:LYS:CB	14:N:48:ALA:HB3	2.37	0.55
15:O:353:ASP:CB	17:Q:28:SER:HA	2.37	0.55
15:O:357:LEU:HB2	17:Q:20:LYS:CE	2.36	0.55
15:O:380:MET:SD	15:O:416:LEU:CD2	2.95	0.55
15:O:382:GLU:OE1	17:Q:144:VAL:CG2	2.55	0.55
15:O:725:VAL:HG12	16:P:452:PHE:HB3	1.83	0.55
16:P:29:CYS:HB2	16:P:33:HIS:O	2.07	0.55
16:P:139:LYS:CE	16:P:242:PHE:CE2	2.90	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:247:ILE:HG13	17:Q:298:GLN:HG2	0.55	0.55
17:Q:281:LYS:C	17:Q:302:ARG:CG	2.55	0.55
1:A:65:CYS:SG	1:A:67:LEU:HB2	2.47	0.55
1:A:239:PHE:H	1:A:264:ASN:ND2	2.05	0.55
1:A:246:ASP:OD2	1:A:250:LYS:N	2.40	0.55
1:A:669:LEU:HD12	1:A:786:TYR:CE2	2.41	0.55
3:C:139:LYS:HE2	3:C:201:GLU:OE1	2.07	0.55
3:C:237:GLN:OE1	3:C:288:LYS:HA	2.07	0.55
4:D:28:PRO:CB	7:G:41:VAL:HB	2.36	0.55
5:E:85:GLU:O	5:E:113:GLN:HB2	2.07	0.55
13:M:43:LYS:HB2	14:N:29:PHE:HD1	1.68	0.55
15:O:359:SER:HA	15:O:361:LYS:NZ	2.22	0.55
15:O:443:ASP:O	17:Q:2:PHE:HA	2.07	0.55
16:P:119:LEU:HD21	16:P:190:MET:HE1	1.89	0.55
16:P:123:MET:O	16:P:124:ARG:HG3	2.06	0.55
1:A:1:MET:HA	2:B:1098:TYR:CD2	2.42	0.54
1:A:1306:TYR:O	1:A:1308:VAL:HG13	2.08	0.54
2:B:129:ARG:HD3	2:B:890:ASP:CB	2.37	0.54
2:B:289:PHE:CZ	9:I:4:VAL:HG11	2.42	0.54
3:C:146:ALA:HB1	3:C:151:THR:HG1	1.72	0.54
3:C:241:GLY:O	3:C:245:ARG:HG3	2.07	0.54
4:D:27:LEU:HD12	4:D:28:PRO:HD2	1.88	0.54
14:N:26:PRO:CG	14:N:29:PHE:CE2	2.90	0.54
14:N:83:ASP:C	14:N:85:HIS:H	2.10	0.54
15:O:254:ILE:O	15:O:256:ARG:N	2.39	0.54
15:O:326:ILE:H	15:O:344:ILE:CD1	2.18	0.54
15:O:350:THR:O	15:O:352:PHE:CZ	2.58	0.54
15:O:351:ILE:O	15:O:352:PHE:CD1	2.60	0.54
15:O:363:ILE:O	15:O:363:ILE:HD12	2.06	0.54
15:O:400:SER:O	15:O:401:ASN:ND2	2.39	0.54
15:O:401:ASN:O	15:O:419:ARG:N	2.39	0.54
15:O:414:ILE:HD13	15:O:434:ARG:NH2	2.22	0.54
15:O:583:GLU:HG2	15:O:584:ARG:CA	2.33	0.54
15:O:604:ILE:CA	15:O:732:LEU:CD2	2.83	0.54
16:P:157:HIS:CE1	16:P:158:MET:CE	2.90	0.54
16:P:208:PRO:HB3	16:P:212:VAL:HG21	1.81	0.54
16:P:212:VAL:O	16:P:215:LEU:CB	2.55	0.54
16:P:257:VAL:O	16:P:262:LEU:HA	2.07	0.54
1:A:36:THR:O	1:A:45:VAL:HG11	2.06	0.54
1:A:57:PHE:O	1:A:60:ASN:N	2.40	0.54
1:A:539:GLU:OE1	1:A:539:GLU:N	2.31	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:708:THR:HB	1:A:742:PRO:HD3	1.89	0.54
1:A:785:GLN:O	1:A:793:ILE:HG22	2.07	0.54
1:A:1310:LYS:HE2	1:A:1464:ASP:O	2.08	0.54
2:B:111:ASP:O	2:B:116:ALA:HB2	2.07	0.54
2:B:239:VAL:HA	2:B:245:SER:HA	1.88	0.54
2:B:1181:VAL:HG23	2:B:1182:LEU:N	2.23	0.54
5:E:22:MET:HA	5:E:187:TYR:CZ	2.42	0.54
5:E:83:CYS:CB	5:E:112:TYR:HA	2.32	0.54
5:E:112:TYR:CZ	5:E:136:ASN:HA	2.43	0.54
13:M:26:PHE:HE1	13:M:98:SER:CB	2.07	0.54
13:M:80:LEU:O	13:M:88:ILE:HA	2.07	0.54
15:O:294:PHE:HD2	15:O:300:LEU:CB	2.19	0.54
15:O:314:GLN:HE21	15:O:329:ILE:CD1	2.20	0.54
15:O:318:ILE:HG23	15:O:340:LYS:NZ	2.22	0.54
15:O:353:ASP:CB	17:Q:31:PHE:HB3	2.37	0.54
15:O:362:ARG:HH22	15:O:364:GLU:HG2	1.73	0.54
15:O:420:GLU:HA	15:O:442:LEU:CD1	2.37	0.54
15:O:423:ILE:HA	15:O:439:LYS:HB3	1.88	0.54
16:P:93:LYS:HZ3	16:P:94:LYS:CA	2.20	0.54
16:P:95:LEU:CD1	16:P:100:ALA:N	2.64	0.54
16:P:101:LYS:HZ2	16:P:152:LEU:HD13	1.05	0.54
16:P:223:ASN:CA	16:P:492:ALA:O	2.37	0.54
17:Q:158:THR:HG22	17:Q:161:ASN:CB	2.32	0.54
17:Q:208:TYR:CE1	17:Q:212:HIS:CE1	2.95	0.54
1:A:676:ALA:HB2	1:A:821:ILE:CD1	2.35	0.54
1:A:720:PHE:HD2	8:H:63:LEU:HD11	1.71	0.54
1:A:872:ASP:OD1	1:A:874:GLU:HB3	2.07	0.54
1:A:1332:GLU:OE1	1:A:1335:LYS:HD3	2.06	0.54
1:A:1455:ARG:HG3	1:A:1456:PHE:CD1	2.43	0.54
2:B:289:PHE:CE1	2:B:293:ILE:HG21	2.43	0.54
2:B:409:TYR:O	2:B:412:ILE:HG22	2.08	0.54
2:B:438:ILE:CG2	2:B:445:TYR:CD1	2.90	0.54
2:B:1090:ASP:HA	2:B:1094:ASN:HD22	1.72	0.54
2:B:1109:SER:HB2	2:B:1130:ARG:HH22	1.72	0.54
2:B:1126:VAL:HB	2:B:1166:LYS:HZ2	1.73	0.54
3:C:240:LYS:HB2	3:C:261:GLY:O	2.08	0.54
3:C:256:ILE:HG23	3:C:266:TYR:O	2.08	0.54
7:G:82:LEU:HD11	7:G:125:TRP:HB2	1.88	0.54
10:J:45:CYS:O	10:J:48:ARG:HG2	2.08	0.54
13:M:55:GLY:HA3	13:M:62:TYR:CZ	2.42	0.54
15:O:194:ARG:CZ	15:O:194:ARG:CB	2.86	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:672:ILE:HD12	15:O:734:LYS:CE	2.36	0.54
15:O:736:ILE:O	15:O:736:ILE:CG2	2.54	0.54
16:P:104:PHE:CD1	16:P:211:TYR:CA	2.90	0.54
16:P:334:LEU:O	16:P:338:LEU:CG	2.40	0.54
16:P:357:TYR:HE2	17:Q:203:SER:HA	1.72	0.54
16:P:360:LYS:N	16:P:361:PRO:HD3	2.22	0.54
17:Q:29:ARG:O	17:Q:32:ASP:OD2	2.25	0.54
17:Q:128:TRP:O	17:Q:132:GLU:N	2.38	0.54
17:Q:362:ALA:O	17:Q:363:GLU:C	2.45	0.54
1:A:543:LEU:CD2	16:P:26:ARG:NH2	2.67	0.54
1:A:588:LEU:HD21	1:A:600:MET:HE2	1.89	0.54
1:A:920:PHE:CZ	1:A:930:LEU:HD23	2.43	0.54
2:B:22:GLU:O	2:B:26:ILE:HG22	2.07	0.54
2:B:523:GLU:OE1	2:B:523:GLU:N	2.36	0.54
2:B:656:LEU:HD13	2:B:688:HIS:HA	1.89	0.54
5:E:69:ILE:HD11	5:E:73:PRO:O	2.08	0.54
7:G:169:VAL:HG23	7:G:216:HIS:C	2.21	0.54
14:N:34:HIS:HA	14:N:115:SER:OG	2.08	0.54
14:N:80:MET:HB2	14:N:89:ILE:HD11	1.89	0.54
15:O:214:LEU:N	15:O:236:ILE:CG2	2.71	0.54
15:O:373:LEU:CD2	15:O:382:GLU:HG3	2.37	0.54
15:O:375:PHE:CD1	15:O:380:MET:CG	2.91	0.54
15:O:400:SER:HA	15:O:419:ARG:CD	2.34	0.54
15:O:400:SER:OG	17:Q:139:GLU:OE1	2.25	0.54
15:O:473:HIS:O	15:O:504:THR:HG23	2.07	0.54
15:O:483:HIS:CG	15:O:489:PHE:HE1	2.25	0.54
15:O:655:SER:HB3	16:P:244:ASN:CG	2.24	0.54
16:P:101:LYS:HD3	16:P:152:LEU:CD1	2.21	0.54
16:P:120:ILE:HD11	16:P:130:GLU:HB2	1.90	0.54
17:Q:217:THR:O	17:Q:221:HIS:CD2	2.61	0.54
1:A:360:LEU:HD11	2:B:1184:TYR:OH	2.06	0.54
1:A:367:PHE:HA	2:B:1055:LEU:CD2	2.37	0.54
1:A:1048:PHE:CZ	5:E:211:TYR:HB2	2.42	0.54
2:B:464:PHE:CE1	2:B:471:VAL:HG22	2.40	0.54
3:C:191:ILE:HD11	10:J:13:VAL:HG21	1.89	0.54
5:E:147:HIS:CE1	5:E:149:LEU:HG	2.42	0.54
7:G:135:GLY:O	7:G:229:LEU:N	2.37	0.54
11:K:64:GLN:HG3	11:K:102:ASN:OD1	2.07	0.54
15:O:181:ARG:HD2	15:O:206:ALA:CB	2.38	0.54
15:O:438:TRP:CZ2	15:O:481:PHE:HD2	2.24	0.54
15:O:511:ILE:CD1	15:O:537:PHE:HA	2.38	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:13:ASP:HB2	16:P:33:HIS:CE1	2.41	0.54
16:P:137:TRP:NE1	16:P:141:LEU:HD11	2.21	0.54
16:P:256:LEU:HD21	16:P:307:LEU:HD23	1.88	0.54
16:P:274:ILE:HG23	16:P:278:GLU:OE1	2.08	0.54
16:P:280:ASP:O	16:P:281:ILE:HG22	2.08	0.54
1:A:719:ILE:O	1:A:724:PRO:HA	2.08	0.54
1:A:1018:TYR:CZ	20:T:14:DT:H72	2.42	0.54
1:A:1045:LEU:HD23	1:A:1046:VAL:N	2.23	0.54
2:B:129:ARG:HG2	2:B:131:THR:HG23	1.89	0.54
2:B:204:ARG:HG3	2:B:502:MET:HE3	1.88	0.54
2:B:225:ARG:NE	2:B:261:ARG:HH12	2.05	0.54
2:B:829:ASN:C	2:B:831:GLU:H	2.11	0.54
3:C:246:ARG:HH11	3:C:246:ARG:HG3	1.72	0.54
3:C:278:GLU:OE2	3:C:281:ARG:HD3	2.07	0.54
6:F:133:VAL:HG22	6:F:147:SER:HA	1.90	0.54
9:I:17:LEU:HD12	9:I:17:LEU:C	2.28	0.54
15:O:308:ASN:O	15:O:315:PHE:HE2	1.87	0.54
15:O:419:ARG:CZ	15:O:420:GLU:OE1	2.55	0.54
15:O:611:ILE:HD11	15:O:731:LEU:HG	1.90	0.54
15:O:698:LYS:HB3	16:P:125:PHE:HE1	1.71	0.54
15:O:775:TRP:HE1	16:P:113:LYS:HB2	1.68	0.54
16:P:100:ALA:CB	16:P:209:ASN:CB	2.86	0.54
16:P:136:ILE:CD1	16:P:168:ALA:HB2	2.34	0.54
16:P:171:HIS:CG	16:P:243:PHE:CG	2.96	0.54
16:P:303:GLU:O	16:P:306:VAL:N	2.40	0.54
17:Q:248:LYS:CA	17:Q:298:GLN:NE2	2.70	0.54
1:A:257:ASN:O	1:A:261:ILE:N	2.34	0.54
1:A:464:GLU:OE1	1:A:464:GLU:N	2.39	0.54
1:A:1313:LEU:HA	1:A:1316:VAL:HG12	1.90	0.54
2:B:883:GLU:O	2:B:884:GLU:HG3	2.08	0.54
2:B:1071:VAL:HA	2:B:1075:GLU:OE1	2.08	0.54
5:E:97:VAL:HG13	5:E:127:ILE:HD13	1.88	0.54
13:M:15:VAL:HG22	13:M:90:LEU:CD1	2.24	0.54
13:M:43:LYS:O	13:M:49:ASP:CB	2.56	0.54
15:O:600:GLU:OE2	16:P:268:PHE:CB	2.51	0.54
16:P:58:ARG:NH2	16:P:63:THR:O	2.40	0.54
16:P:354:LYS:CD	16:P:362:THR:HG22	2.37	0.54
1:A:733:THR:HG23	1:A:774:GLY:O	2.08	0.54
1:A:1613:MET:CE	1:A:1622:LEU:HD13	2.37	0.54
2:B:74:PHE:HE2	2:B:342:PRO:O	1.81	0.54
2:B:96:SER:HB3	2:B:144:SER:HB3	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:317:TYR:CB	2:B:320:LEU:HD12	2.37	0.54
2:B:943:ILE:HD11	10:J:44:TYR:OH	2.07	0.54
13:M:60:LEU:HG	13:M:102:SER:CA	2.38	0.54
14:N:26:PRO:CB	14:N:29:PHE:CE2	2.90	0.54
15:O:275:GLU:CB	15:O:285:MET:CG	2.85	0.54
15:O:469:TYR:HB3	15:O:476:ILE:HD12	1.88	0.54
15:O:698:LYS:HD3	16:P:124:ARG:O	2.07	0.54
16:P:60:LEU:O	16:P:60:LEU:CG	2.55	0.54
16:P:104:PHE:HB2	16:P:211:TYR:HB2	1.90	0.54
16:P:257:VAL:C	16:P:262:LEU:HD13	2.27	0.54
1:A:24:ILE:O	1:A:28:SER:N	2.38	0.54
1:A:1027:LEU:HA	1:A:1030:VAL:HG23	1.90	0.54
2:B:874:TYR:CE2	2:B:876:SER:HB3	2.43	0.54
2:B:897:GLU:HB3	2:B:899:GLN:HE21	1.73	0.54
2:B:1128:CYS:N	2:B:1163:GLN:O	2.38	0.54
2:B:1151:ILE:CA	2:B:1160:GLU:O	2.36	0.54
4:D:92:ILE:HG12	7:G:152:ALA:HB2	1.89	0.54
11:K:50:LEU:HD11	11:K:64:GLN:HB2	1.90	0.54
11:K:111:THR:HG22	11:K:112:THR:N	2.22	0.54
12:L:38:LEU:HD12	12:L:38:LEU:C	2.28	0.54
13:M:12:ILE:H	14:N:69:SER:HA	1.71	0.54
14:N:95:ILE:CG1	14:N:96:GLU:HG2	2.36	0.54
15:O:314:GLN:HE21	15:O:329:ILE:HD12	1.72	0.54
15:O:359:SER:O	15:O:360:TRP:CD1	2.61	0.54
15:O:727:PRO:CD	16:P:264:PRO:CB	2.85	0.54
16:P:5:ILE:HG23	16:P:5:ILE:O	2.08	0.54
16:P:41:PHE:O	16:P:42:ASN:HB2	2.07	0.54
16:P:183:LYS:CG	16:P:189:LYS:CE	2.86	0.54
16:P:299:SER:C	16:P:301:HIS:H	2.10	0.54
17:Q:153:ASN:O	17:Q:156:LYS:CD	2.56	0.54
17:Q:353:VAL:CA	17:Q:358:PHE:HD2	2.19	0.54
1:A:703:GLU:HB3	11:K:53:ALA:HB2	1.90	0.54
1:A:1610:PHE:HB2	1:A:1639:ALA:HB2	1.89	0.54
2:B:204:ARG:HD3	2:B:502:MET:HE1	1.90	0.54
2:B:368:GLN:O	2:B:371:PHE:HB3	2.08	0.54
3:C:151:THR:O	3:C:155:GLU:OE1	2.26	0.54
3:C:240:LYS:HE3	3:C:262:SER:O	2.07	0.54
3:C:285:PHE:HA	3:C:288:LYS:HG2	1.90	0.54
5:E:58:MET:HB2	5:E:82:PHE:HD2	1.72	0.54
15:O:210:THR:O	15:O:210:THR:CG2	2.56	0.54
15:O:243:LYS:NZ	15:O:301:GLN:HE21	2.06	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:488:LEU:HD21	15:O:490:GLN:HG3	1.90	0.54
16:P:156:LEU:CD1	16:P:157:HIS:N	2.70	0.54
16:P:195:ALA:CB	16:P:216:GLU:CA	2.84	0.54
17:Q:299:THR:HG23	17:Q:304:HIS:ND1	2.21	0.54
17:Q:354:LEU:HG	17:Q:359:MET:CB	2.37	0.54
1:A:52:LEU:C	1:A:63:SER:HB2	2.29	0.53
1:A:328:PHE:HD2	1:A:352:ALA:HB2	1.72	0.53
1:A:1297:PHE:HA	1:A:1468:LYS:HZ2	1.73	0.53
2:B:12:ARG:HG3	2:B:15:ASP:OD2	2.08	0.53
3:C:136:LEU:CD2	3:C:138:VAL:HG23	2.38	0.53
5:E:37:LEU:HD11	5:E:41:ASP:OD2	2.08	0.53
6:F:76:LYS:NZ	6:F:145:ASP:HB2	2.23	0.53
13:M:38:PHE:O	14:N:118:SER:HB3	2.07	0.53
13:M:109:ARG:HG2	13:M:110:GLY:H	1.72	0.53
14:N:33:LYS:O	14:N:115:SER:HB3	2.09	0.53
14:N:95:ILE:O	14:N:96:GLU:CG	2.56	0.53
15:O:213:VAL:HG13	15:O:236:ILE:O	2.07	0.53
15:O:660:LYS:CA	15:O:663:LEU:HB2	2.28	0.53
16:P:28:THR:C	16:P:36:GLU:CD	2.66	0.53
16:P:48:LEU:HB2	20:T:22:DG:H5'	1.90	0.53
17:Q:292:SER:C	17:Q:293:ILE:HD12	2.29	0.53
1:A:527:PRO:HG3	1:A:547:ILE:HA	1.89	0.53
1:A:1139:ASN:ND2	5:E:204:THR:O	2.40	0.53
1:A:1288:ARG:CZ	1:A:1481:GLU:O	2.56	0.53
2:B:73:ILE:HB	2:B:425:ILE:HD12	1.90	0.53
2:B:1135:PHE:CB	2:B:1159:TRP:HB2	2.38	0.53
10:J:6:ARG:HD3	10:J:11:GLY:O	2.07	0.53
11:K:46:LYS:HA	11:K:66:VAL:CG2	2.38	0.53
15:O:195:ASN:N	15:O:197:ARG:NH1	2.55	0.53
15:O:351:ILE:CA	17:Q:157:MET:HE3	2.35	0.53
16:P:351:ASN:O	16:P:355:VAL:CG2	2.53	0.53
16:P:359:ASP:OD2	16:P:361:PRO:HG3	2.08	0.53
17:Q:358:PHE:CE1	17:Q:365:TRP:CE3	2.94	0.53
1:A:801:TYR:CB	1:A:805:VAL:HG21	2.37	0.53
1:A:1158:SER:CB	1:A:1161:VAL:CG2	2.87	0.53
2:B:29:PRO:HB2	2:B:177:PRO:HG2	1.89	0.53
2:B:108:MET:HE3	2:B:120:LYS:HG2	1.90	0.53
2:B:944:GLN:OE1	2:B:944:GLN:N	2.41	0.53
7:G:165:ASP:O	7:G:220:SER:HA	2.07	0.53
14:N:80:MET:SD	14:N:89:ILE:HD11	2.48	0.53
15:O:16:UNK:CB	15:O:440:HIS:HB2	2.38	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:186:TYR:CA	15:O:201:GLU:HB3	2.39	0.53
15:O:264:ILE:HG22	15:O:265:THR:N	2.22	0.53
15:O:270:GLN:NE2	15:O:289:SER:HB2	2.24	0.53
15:O:270:GLN:CD	15:O:339:ARG:HH22	2.11	0.53
15:O:275:GLU:HG2	15:O:285:MET:HG3	1.89	0.53
16:P:9:ILE:CD1	16:P:16:PRO:HB3	2.38	0.53
16:P:157:HIS:CE1	16:P:158:MET:CG	2.85	0.53
16:P:178:THR:HG23	16:P:179:CYS:N	2.24	0.53
16:P:184:TRP:CH2	16:P:192:TYR:HD2	2.23	0.53
16:P:357:TYR:HB3	17:Q:211:ARG:HD3	1.82	0.53
17:Q:158:THR:C	17:Q:160:HIS:N	2.54	0.53
17:Q:200:THR:HG1	17:Q:203:SER:CB	2.14	0.53
1:A:372:LYS:HG3	1:A:377:VAL:HG22	1.90	0.53
1:A:461:GLU:HG2	1:A:1618:THR:HB	1.88	0.53
1:A:588:LEU:HD22	2:B:1087:LEU:CD2	2.37	0.53
1:A:827:THR:O	1:A:924:SER:OG	2.20	0.53
2:B:293:ILE:HD13	2:B:297:VAL:HA	1.90	0.53
2:B:1106:GLU:HG3	2:B:1165:ASN:ND2	2.23	0.53
2:B:1179:PRO:O	2:B:1183:LYS:HB2	2.05	0.53
5:E:13:TRP:HB3	5:E:39:LEU:HD13	1.91	0.53
6:F:110:ASP:HB3	6:F:123:LYS:HZ1	1.73	0.53
8:H:7:ASP:HA	8:H:58:THR:HA	1.89	0.53
8:H:15:VAL:HG13	8:H:26:ILE:CD1	2.38	0.53
14:N:172:ALA:HB3	14:N:175:TYR:HD2	1.73	0.53
15:O:308:ASN:N	15:O:315:PHE:CD2	2.76	0.53
15:O:310:TRP:HB2	15:O:368:HIS:ND1	2.23	0.53
15:O:771:ILE:HG22	16:P:109:GLN:CD	2.17	0.53
15:O:772:ILE:HD12	16:P:138:LEU:HD21	1.86	0.53
16:P:13:ASP:CB	16:P:33:HIS:CE1	2.91	0.53
16:P:112:LEU:HD13	16:P:161:THR:HG23	1.90	0.53
16:P:238:HIS:NE2	16:P:289:ARG:CZ	2.67	0.53
16:P:336:GLU:O	16:P:337:SER:C	2.47	0.53
16:P:485:SER:O	16:P:489:VAL:CG2	2.52	0.53
17:Q:246:GLN:NE2	17:Q:246:GLN:H	2.06	0.53
17:Q:282:SER:N	17:Q:302:ARG:HG2	2.20	0.53
17:Q:383:PHE:C	17:Q:388:LYS:HA	2.29	0.53
1:A:916:THR:HG21	1:A:926:GLN:NE2	2.22	0.53
2:B:738:ASP:OD2	2:B:741:LEU:HD11	2.09	0.53
3:C:255:VAL:HG22	3:C:272:LYS:CB	2.36	0.53
5:E:5:ASN:HD21	5:E:51:GLY:HA3	1.73	0.53
14:N:81:THR:HA	14:N:85:HIS:O	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:93:THR:CA	14:N:97:SER:OG	2.56	0.53
14:N:157:ARG:NH1	14:N:159:ASP:OD1	2.41	0.53
15:O:352:PHE:HD2	15:O:355:GLU:HB2	1.71	0.53
15:O:511:ILE:O	15:O:512:LEU:CB	2.56	0.53
15:O:596:ILE:HG23	16:P:317:MET:CE	2.34	0.53
16:P:233:THR:O	16:P:237:ILE:HG13	2.08	0.53
16:P:369:TRP:HZ3	16:P:377:PHE:CD2	2.26	0.53
18:R:1:A:C6	20:T:22:DG:O6	2.59	0.53
1:A:18:ILE:HD13	1:A:354:SER:HB3	1.90	0.53
1:A:496:GLY:HA3	1:A:608:LEU:CD1	2.39	0.53
1:A:967:PRO:CG	2:B:669:GLN:HE21	2.21	0.53
1:A:973:GLU:HG3	1:A:975:ASP:H	1.73	0.53
1:A:1647:ASN:HD21	1:A:1649:VAL:HB	1.73	0.53
2:B:585:CYS:SG	2:B:592:ILE:HD12	2.48	0.53
3:C:86:PHE:O	12:L:62:LYS:HA	2.08	0.53
7:G:40:ARG:HD3	7:G:123:TYR:CZ	2.43	0.53
7:G:40:ARG:HD2	7:G:85:GLU:OE1	2.09	0.53
7:G:217:TRP:O	7:G:225:ILE:HG12	2.09	0.53
15:O:351:ILE:O	15:O:352:PHE:HD1	1.92	0.53
15:O:409:ASP:OD2	15:O:455:LYS:NZ	2.40	0.53
15:O:436:ILE:HD12	15:O:436:ILE:C	2.29	0.53
15:O:604:ILE:CB	15:O:732:LEU:CD2	2.87	0.53
15:O:658:LYS:HD2	15:O:660:LYS:CD	2.37	0.53
15:O:757:GLN:C	15:O:760:ILE:CG2	2.77	0.53
16:P:227:TYR:CE2	16:P:304:LEU:HD11	2.44	0.53
17:Q:266:SER:O	17:Q:266:SER:OG	2.26	0.53
1:A:89:LEU:HG	1:A:1623:THR:OG1	2.09	0.53
1:A:672:ASP:HA	2:B:952:HIS:CE1	2.43	0.53
1:A:843:ARG:NE	1:A:945:CYS:O	2.25	0.53
1:A:912:VAL:O	1:A:914:ASP:N	2.41	0.53
2:B:95:LEU:HD23	2:B:440:PHE:CZ	2.44	0.53
2:B:279:ALA:O	2:B:323:ARG:NE	2.42	0.53
2:B:811:LEU:CB	2:B:899:GLN:OE1	2.57	0.53
3:C:334:THR:O	11:K:49:LEU:N	2.40	0.53
4:D:82:LEU:HD22	7:G:67:ASN:CB	2.37	0.53
13:M:16:GLN:HE21	14:N:36:LYS:HD2	1.73	0.53
15:O:270:GLN:NE2	15:O:289:SER:H	2.06	0.53
15:O:455:LYS:O	15:O:455:LYS:HG3	2.08	0.53
15:O:585:GLU:O	15:O:586:LYS:C	2.45	0.53
15:O:706:GLU:CB	16:P:438:PHE:HB3	2.38	0.53
16:P:80:LEU:O	16:P:81:LEU:C	2.47	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:206:ARG:HD3	17:Q:211:ARG:NH2	2.13	0.53
17:Q:283:ARG:HB2	17:Q:302:ARG:NE	2.23	0.53
17:Q:299:THR:CG2	17:Q:304:HIS:CE1	2.85	0.53
17:Q:388:LYS:HE3	17:Q:393:ILE:HB	1.89	0.53
1:A:642:ASN:O	1:A:646:GLU:HG3	2.09	0.53
1:A:1097:TYR:CD2	1:A:1123:VAL:HA	2.44	0.53
2:B:588:ILE:HG23	2:B:588:ILE:O	2.07	0.53
2:B:843:ASP:HB3	12:L:27:LEU:CD2	2.38	0.53
2:B:1133:MET:HE3	7:G:15:ARG:HH22	1.74	0.53
3:C:239:ILE:C	3:C:244:ALA:HB2	2.29	0.53
14:N:34:HIS:O	14:N:35:LEU:HD23	2.09	0.53
15:O:174:TRP:HA	17:Q:198:LEU:HD11	1.89	0.53
15:O:310:TRP:CA	15:O:368:HIS:CE1	2.91	0.53
15:O:369:PHE:CG	15:O:432:PRO:CG	2.87	0.53
15:O:659:LEU:HD22	15:O:659:LEU:H	1.71	0.53
16:P:101:LYS:CE	16:P:152:LEU:HD13	2.06	0.53
16:P:118:TRP:CZ2	16:P:189:LYS:CB	2.87	0.53
16:P:129:PHE:O	16:P:129:PHE:HD1	1.92	0.53
16:P:183:LYS:HG2	16:P:189:LYS:CE	2.39	0.53
16:P:311:MET:SD	16:P:487:LEU:HD21	2.49	0.53
16:P:386:LEU:O	16:P:388:THR:N	2.40	0.53
17:Q:266:SER:O	17:Q:268:LEU:CA	2.53	0.53
17:Q:380:SER:C	17:Q:384:VAL:HG11	2.23	0.53
1:A:31:GLN:HA	1:A:78:HIS:O	2.09	0.53
1:A:335:LEU:HD22	1:A:339:PHE:CE2	2.44	0.53
1:A:594:THR:HG21	2:B:1075:GLU:HG3	1.91	0.53
1:A:717:PRO:HB3	1:A:726:TRP:CZ2	2.44	0.53
1:A:1028:GLU:HB3	1:A:1187:ILE:HD11	1.91	0.53
1:A:1655:ASP:OD1	1:A:1656:VAL:N	2.42	0.53
2:B:743:ARG:HD2	2:B:745:GLN:OE1	2.09	0.53
8:H:105:GLU:OE1	8:H:115:TYR:OH	2.11	0.53
15:O:408:ILE:O	15:O:408:ILE:HG12	2.08	0.53
15:O:696:PHE:CE1	15:O:711:LEU:HD21	2.20	0.53
16:P:222:PHE:CB	16:P:223:ASN:OD1	2.55	0.53
16:P:272:GLN:O	16:P:275:GLU:HB3	2.08	0.53
16:P:332:LEU:HA	16:P:335:THR:OG1	2.09	0.53
17:Q:304:HIS:O	17:Q:304:HIS:CG	2.59	0.53
1:A:42:GLY:C	16:P:61:ASN:CB	2.58	0.53
1:A:988:SER:OG	2:B:988:GLU:HG2	2.09	0.53
1:A:1299:ASN:HB2	1:A:1466:SER:O	2.09	0.53
2:B:114:SER:O	20:T:36:DC:OP1	2.26	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:146:TRP:CB	6:F:151:LEU:HD11	2.39	0.53
7:G:145:ILE:HG13	7:G:217:TRP:CE3	2.44	0.53
7:G:163:PRO:CG	7:G:250:ILE:HG22	2.39	0.53
9:I:36:ILE:C	9:I:39:LYS:HD3	2.28	0.53
13:M:60:LEU:N	13:M:60:LEU:HD12	2.24	0.53
15:O:183:ASP:CB	15:O:247:ILE:HD12	2.38	0.53
15:O:194:ARG:O	15:O:196:TYR:CE2	2.60	0.53
15:O:346:ASN:HD22	17:Q:155:GLN:HB2	1.74	0.53
15:O:354:PRO:HA	17:Q:24:ILE:HG23	1.90	0.53
16:P:101:LYS:HZ2	16:P:152:LEU:N	2.06	0.53
16:P:403:THR:OG1	16:P:405:ASP:CG	2.46	0.53
16:P:404:ILE:O	16:P:408:ILE:CD1	2.57	0.53
17:Q:216:LEU:O	17:Q:218:ASP:N	2.42	0.53
20:T:21:DT:O3'	20:T:22:DG:C4'	2.56	0.53
20:T:21:DT:C1'	20:T:22:DG:O4'	2.38	0.53
1:A:637:PHE:C	2:B:1091:ARG:HH22	2.12	0.52
2:B:122:TYR:HE2	2:B:175:MET:CE	2.16	0.52
2:B:678:PRO:HA	2:B:681:ILE:HD11	1.91	0.52
8:H:63:LEU:HB3	8:H:88:SER:HB2	1.90	0.52
15:O:356:GLU:CA	17:Q:24:ILE:HD12	2.34	0.52
15:O:434:ARG:HD2	15:O:436:ILE:HG22	1.91	0.52
15:O:478:MET:HE2	15:O:497:VAL:HG22	1.91	0.52
15:O:578:PHE:O	15:O:579:ASN:ND2	2.42	0.52
16:P:278:GLU:CG	16:P:309:TYR:CE2	2.92	0.52
16:P:298:VAL:C	16:P:300:ASN:H	2.11	0.52
16:P:356:VAL:HA	17:Q:211:ARG:HG2	1.91	0.52
16:P:367:PHE:CZ	17:Q:1:MET:CE	2.92	0.52
17:Q:149:LYS:CA	17:Q:149:LYS:CE	2.85	0.52
17:Q:347:ASP:O	17:Q:351:GLU:HG3	2.09	0.52
1:A:1079:LYS:HE2	1:A:1080:TYR:CE1	2.44	0.52
1:A:1175:MET:HA	1:A:1178:LEU:HD11	1.91	0.52
2:B:322:ASN:HD22	13:M:105:SER:HA	1.74	0.52
2:B:518:ARG:NH1	2:B:539:CYS:O	2.40	0.52
2:B:1132:SER:HB3	2:B:1163:GLN:CB	2.39	0.52
3:C:78:VAL:HA	3:C:209:ILE:O	2.09	0.52
3:C:120:LEU:HD11	3:C:125:LYS:N	2.24	0.52
15:O:274:ILE:HD11	15:O:284:VAL:HG11	1.92	0.52
15:O:423:ILE:HG21	17:Q:141:TRP:CZ2	2.26	0.52
15:O:567:ILE:O	16:P:478:ARG:NH2	2.42	0.52
15:O:586:LYS:HZ3	16:P:322:ARG:HH21	1.57	0.52
15:O:705:HIS:O	15:O:706:GLU:CB	2.46	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:198:ILE:CB	16:P:200:PRO:CG	2.66	0.52
16:P:284:LEU:HD21	16:P:306:VAL:HG23	1.90	0.52
1:A:1:MET:HA	2:B:1098:TYR:CE2	2.45	0.52
1:A:872:ASP:OD1	1:A:874:GLU:N	2.43	0.52
1:A:1297:PHE:CD2	9:I:60:LEU:HD23	2.44	0.52
5:E:37:LEU:HD11	5:E:41:ASP:CB	2.33	0.52
7:G:26:ASN:ND2	7:G:126:GLN:HE21	2.07	0.52
9:I:36:ILE:HB	9:I:39:LYS:HZ2	1.73	0.52
12:L:31:CYS:HB2	12:L:48:CYS:SG	2.48	0.52
15:O:323:ASN:HA	15:O:348:HIS:HB2	1.90	0.52
15:O:360:TRP:C	15:O:361:LYS:HG3	2.30	0.52
15:O:539:VAL:HG23	15:O:539:VAL:O	2.08	0.52
17:Q:248:LYS:HA	17:Q:248:LYS:HE2	1.84	0.52
17:Q:385:ASN:HD22	17:Q:385:ASN:N	2.07	0.52
1:A:45:VAL:HG13	1:A:48:GLY:HA3	1.91	0.52
1:A:594:THR:OG1	2:B:1074:MET:HB3	2.09	0.52
1:A:832:ASP:O	1:A:944:MET:HE1	2.09	0.52
1:A:1272:VAL:HG11	1:A:1485:MET:HG2	1.92	0.52
2:B:502:MET:SD	2:B:542:LEU:HD11	2.50	0.52
2:B:508:PHE:HE1	19:S:41:DT:C5	2.27	0.52
2:B:811:LEU:HB3	2:B:899:GLN:OE1	2.09	0.52
2:B:1097:ASP:OD2	2:B:1172:GLU:HB2	2.10	0.52
5:E:59:SER:HB3	5:E:81:GLU:HA	1.91	0.52
7:G:56:ASN:O	7:G:60:GLY:N	2.36	0.52
7:G:133:LEU:N	7:G:231:PHE:O	2.34	0.52
7:G:134:GLU:OE2	7:G:230:ARG:NH2	2.34	0.52
8:H:104:PHE:HZ	8:H:136:LYS:HA	1.74	0.52
13:M:39:ASP:N	13:M:54:HIS:O	2.34	0.52
15:O:12:UNK:HA	15:O:436:ILE:HD13	1.87	0.52
15:O:271:ILE:HG22	15:O:272:PHE:N	2.25	0.52
15:O:273:ARG:HH11	15:O:274:ILE:HG22	1.75	0.52
15:O:366:PHE:CE1	15:O:414:ILE:HD11	2.45	0.52
15:O:506:THR:HG22	15:O:540:LYS:C	2.30	0.52
15:O:689:GLN:O	15:O:690:ASP:CB	2.55	0.52
16:P:206:GLN:C	16:P:208:PRO:HD3	2.29	0.52
16:P:442:LEU:HD11	16:P:446:TYR:CZ	2.45	0.52
16:P:499:LYS:HA	16:P:502:ILE:CB	2.39	0.52
1:A:110:LEU:HD23	1:A:115:VAL:HG22	1.91	0.52
1:A:855:ARG:NH2	1:A:867:ASP:HA	2.23	0.52
2:B:634:ARG:O	2:B:634:ARG:HG2	2.08	0.52
2:B:979:GLN:NE2	2:B:999:GLN:HE22	2.05	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1141:LEU:HD12	2:B:1141:LEU:O	2.09	0.52
3:C:53:ASN:HD22	14:N:174:GLY:HA2	1.75	0.52
5:E:128:PRO:CB	5:E:129:PRO:HD2	2.34	0.52
8:H:103:LYS:HD2	8:H:105:GLU:OE2	2.10	0.52
13:M:56:GLU:HA	13:M:61:GLU:HA	1.91	0.52
15:O:174:TRP:HA	17:Q:198:LEU:CD1	2.39	0.52
15:O:232:ASN:ND2	15:O:283:ASP:HA	2.23	0.52
15:O:468:VAL:CG2	15:O:477:TYR:HB3	2.39	0.52
15:O:529:GLU:CG	15:O:530:ASN:N	2.73	0.52
15:O:704:LEU:HD21	16:P:123:MET:HE1	1.92	0.52
15:O:706:GLU:CG	16:P:438:PHE:CG	2.91	0.52
16:P:103:LEU:HD21	16:P:211:TYR:OH	2.08	0.52
16:P:204:ARG:O	16:P:208:PRO:CD	2.57	0.52
17:Q:349:ILE:CD1	17:Q:368:TYR:CE1	2.90	0.52
1:A:57:PHE:HA	1:A:69:GLU:OE2	2.10	0.52
1:A:111:LYS:HA	1:A:234:ASP:OD2	2.09	0.52
1:A:399:LEU:CD1	1:A:423:LEU:HA	2.40	0.52
1:A:492:THR:HG22	1:A:617:HIS:CE1	2.44	0.52
1:A:530:TRP:CD2	1:A:531:PRO:CD	2.85	0.52
1:A:790:LYS:HE2	1:A:791:TYR:CZ	2.45	0.52
1:A:817:PHE:O	1:A:821:ILE:HG12	2.09	0.52
1:A:1216:THR:CG2	1:A:1220:PRO:HB2	2.39	0.52
2:B:880:ALA:CB	2:B:907:ILE:HG13	2.35	0.52
2:B:1126:VAL:CB	2:B:1166:LYS:HE3	2.39	0.52
3:C:275:VAL:HG11	3:C:293:ARG:NH2	2.25	0.52
7:G:15:ARG:CG	7:G:19:LYS:HD2	2.37	0.52
7:G:38:ILE:HG12	7:G:125:TRP:HD1	1.74	0.52
7:G:47:VAL:HB	7:G:65:HIS:CE1	2.44	0.52
8:H:37:LYS:O	8:H:125:LEU:HD12	2.09	0.52
15:O:357:LEU:HD22	15:O:358:SER:H	1.59	0.52
15:O:473:HIS:C	15:O:504:THR:HG23	2.30	0.52
15:O:654:LEU:HD23	15:O:748:GLU:OE1	2.05	0.52
15:O:722:TRP:NE1	16:P:262:LEU:HD23	2.07	0.52
16:P:4:PHE:HE2	16:P:18:ARG:NH2	2.07	0.52
16:P:238:HIS:CE1	16:P:289:ARG:NH1	2.76	0.52
16:P:261:ALA:O	16:P:263:PRO:CD	2.58	0.52
16:P:360:LYS:NZ	16:P:360:LYS:CB	2.73	0.52
16:P:381:MET:O	16:P:385:PHE:HB2	2.09	0.52
17:Q:149:LYS:HB2	17:Q:149:LYS:HZ1	1.72	0.52
17:Q:178:LEU:HA	17:Q:185:LYS:HE2	1.91	0.52
17:Q:248:LYS:O	17:Q:251:TRP:CD1	2.62	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:959:VAL:HG22	1:A:960:MET:O	2.09	0.52
1:A:1035:ASP:OD2	1:A:1039:ARG:NH1	2.40	0.52
1:A:1527:GLN:HA	1:A:1530:TRP:CE3	2.45	0.52
2:B:37:LEU:H	2:B:37:LEU:HD12	1.73	0.52
2:B:820:PRO:CG	16:P:81:LEU:CD1	2.87	0.52
2:B:1061:LYS:CB	16:P:45:GLU:HA	2.38	0.52
2:B:1090:ASP:O	2:B:1094:ASN:HB2	2.10	0.52
3:C:41:GLU:HB2	3:C:57:ILE:HB	1.90	0.52
3:C:86:PHE:CE1	12:L:64:LEU:HD13	2.44	0.52
5:E:88:VAL:HB	5:E:116:ILE:CG1	2.39	0.52
5:E:121:MET:HA	5:E:124:VAL:HG23	1.92	0.52
8:H:107:VAL:HB	8:H:111:LEU:HB3	1.91	0.52
10:J:44:TYR:HA	10:J:47:ARG:CG	2.39	0.52
13:M:40:LEU:HD23	14:N:32:CYS:SG	2.50	0.52
15:O:24:UNK:N	17:Q:314:TRP:CH2	2.78	0.52
15:O:235:SER:O	15:O:236:ILE:HD13	2.09	0.52
15:O:306:ALA:HB1	15:O:365:TRP:HD1	1.72	0.52
15:O:578:PHE:HE1	16:P:312:LEU:HA	1.74	0.52
16:P:211:TYR:O	16:P:213:SER:N	2.43	0.52
16:P:239:PHE:C	16:P:239:PHE:CD1	2.83	0.52
16:P:287:TRP:CE3	16:P:298:VAL:CG2	2.86	0.52
17:Q:248:LYS:CA	17:Q:248:LYS:NZ	2.73	0.52
1:A:591:ARG:HB2	1:A:633:MET:HE3	1.90	0.52
1:A:1255:CYS:SG	1:A:1519:LEU:HD22	2.50	0.52
1:A:1266:VAL:HG11	1:A:1498:ILE:HD11	1.92	0.52
1:A:1530:TRP:CD1	5:E:142:VAL:HG21	2.45	0.52
2:B:129:ARG:HD2	2:B:890:ASP:HB3	1.92	0.52
2:B:725:THR:HA	2:B:1036:LEU:HD23	1.92	0.52
2:B:832:TRP:HB2	2:B:836:TRP:CZ3	2.44	0.52
3:C:117:ASP:OD2	3:C:119:ASN:ND2	2.43	0.52
9:I:30:CYS:HB3	9:I:33:CYS:C	2.30	0.52
15:O:23:UNK:C	17:Q:314:TRP:CH2	2.93	0.52
15:O:262:GLY:O	15:O:263:ILE:CG1	2.54	0.52
15:O:436:ILE:HG23	17:Q:141:TRP:CE3	2.28	0.52
16:P:10:CYS:N	16:P:18:ARG:NH2	2.57	0.52
16:P:356:VAL:O	16:P:357:TYR:C	2.46	0.52
17:Q:381:ARG:N	17:Q:384:VAL:CG2	2.70	0.52
1:A:105:CYS:O	1:A:106:HIS:HB2	2.08	0.52
1:A:252:PHE:HB3	1:A:312:SER:O	2.10	0.52
1:A:549:MET:O	1:A:554:ARG:NH1	2.43	0.52
1:A:693:GLN:NE2	11:K:88:PHE:HA	2.25	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1112:PRO:O	1:A:1115:LYS:HB2	2.10	0.52
1:A:1447:GLN:HE21	1:A:1459:LYS:HA	1.68	0.52
1:A:1640:ARG:CZ	1:A:1648:ASN:HB2	2.39	0.52
2:B:259:THR:HG21	2:B:270:LEU:HD21	1.92	0.52
2:B:448:ARG:O	2:B:452:ARG:HG3	2.10	0.52
2:B:538:PRO:HA	2:B:541:LEU:HD12	1.91	0.52
2:B:841:ASP:HA	2:B:847:TYR:CZ	2.45	0.52
2:B:1040:VAL:HG12	2:B:1043:LYS:HB2	1.91	0.52
2:B:1051:PRO:HB3	16:P:40:GLU:OE1	2.10	0.52
2:B:1113:THR:HB	2:B:1166:LYS:HD2	1.91	0.52
2:B:1119:ARG:H	2:B:1122:SER:HB2	1.75	0.52
2:B:1154:ASP:O	2:B:1157:GLN:N	2.39	0.52
7:G:17:ILE:HG13	7:G:18:LYS:N	2.25	0.52
15:O:302:VAL:CA	15:O:320:ILE:HG13	2.40	0.52
15:O:317:ILE:HG22	15:O:363:ILE:HD11	1.92	0.52
15:O:408:ILE:HD13	15:O:464:LEU:HD13	1.92	0.52
15:O:577:LEU:CD2	16:P:499:LYS:HZ3	2.15	0.52
15:O:600:GLU:OE1	16:P:269:TYR:CD1	2.61	0.52
16:P:58:ARG:NH1	16:P:58:ARG:CA	2.73	0.52
16:P:96:ILE:CA	16:P:209:ASN:CG	2.58	0.52
16:P:233:THR:HG22	16:P:237:ILE:CD1	2.39	0.52
16:P:240:LYS:HA	16:P:246:GLU:OE2	2.10	0.52
16:P:274:ILE:CA	16:P:278:GLU:CB	2.86	0.52
17:Q:29:ARG:HA	17:Q:32:ASP:OD1	2.07	0.52
17:Q:174:GLU:O	17:Q:175:ILE:C	2.46	0.52
17:Q:294:VAL:H	17:Q:295:PRO:HD3	1.75	0.52
17:Q:358:PHE:C	17:Q:360:GLU:N	2.62	0.52
17:Q:377:ASP:HA	17:Q:438:PHE:CZ	2.45	0.52
1:A:6:PRO:HD3	7:G:113:PHE:CD2	2.44	0.52
1:A:241:PRO:HA	1:A:256:LEU:HD21	1.92	0.52
1:A:263:ASN:HA	1:A:266:VAL:CG2	2.39	0.52
1:A:415:ASP:OD1	1:A:416:ARG:N	2.43	0.52
1:A:980:GLY:HA2	1:A:997:PHE:CD2	2.44	0.52
1:A:1474:LEU:HD21	1:A:1476:LEU:HD21	1.92	0.52
2:B:211:ARG:NH1	2:B:239:VAL:HG21	2.25	0.52
2:B:293:ILE:HD11	2:B:296:ASP:O	2.10	0.52
2:B:1127:CYS:HB3	2:B:1163:GLN:CG	2.40	0.52
5:E:127:ILE:CD1	5:E:132:ILE:HD11	2.39	0.52
7:G:125:TRP:CH2	7:G:127:PRO:HG3	2.45	0.52
13:M:89:GLN:NE2	14:N:39:PRO:HD2	2.24	0.52
14:N:25:ILE:CG1	14:N:26:PRO:HD2	2.34	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:188:GLN:O	15:O:196:TYR:CE1	2.64	0.52
15:O:353:ASP:HB2	17:Q:28:SER:CA	2.39	0.52
15:O:414:ILE:HG22	15:O:415:LEU:N	2.24	0.52
15:O:415:LEU:HD13	15:O:453:VAL:CG1	2.21	0.52
15:O:592:LEU:HD22	16:P:276:PHE:CE2	2.45	0.52
15:O:713:ILE:CG2	15:O:717:LYS:HE2	2.40	0.52
15:O:722:TRP:HB3	16:P:264:PRO:HG3	1.91	0.52
16:P:29:CYS:HB3	16:P:33:HIS:N	2.25	0.52
17:Q:143:THR:C	17:Q:144:VAL:HG12	2.28	0.52
17:Q:154:LYS:O	17:Q:156:LYS:HG3	2.10	0.52
17:Q:181:THR:HA	19:S:10:DG:OP2	2.10	0.52
1:A:110:LEU:HD23	1:A:115:VAL:CG2	2.40	0.51
1:A:233:CYS:HB3	1:A:238:MET:H	1.76	0.51
1:A:475:ARG:HH12	20:T:18:DG:P	2.33	0.51
1:A:569:SER:O	4:D:16:LEU:HD11	2.10	0.51
2:B:1014:TYR:HE1	2:B:1021:GLU:HB2	1.75	0.51
4:D:18:THR:HG23	4:D:19:PRO:HD2	1.92	0.51
5:E:54:GLN:HB2	5:E:57:MET:CB	2.39	0.51
6:F:85:MET:HG2	6:F:89:GLU:HB2	1.92	0.51
9:I:37:TYR:CD1	9:I:38:PRO:CG	2.78	0.51
12:L:28:LYS:HD3	12:L:39:SER:OG	2.10	0.51
15:O:310:TRP:CZ2	15:O:370:GLN:NE2	2.75	0.51
15:O:592:LEU:HD22	16:P:276:PHE:CZ	2.44	0.51
16:P:60:LEU:O	16:P:60:LEU:CD1	2.57	0.51
16:P:188:ALA:HB1	16:P:193:PHE:CE2	2.45	0.51
16:P:274:ILE:CA	16:P:278:GLU:HB3	2.39	0.51
16:P:367:PHE:CE1	17:Q:1:MET:SD	3.03	0.51
16:P:414:TYR:CE1	17:Q:241:ARG:HD3	2.44	0.51
17:Q:398:ASP:OD1	17:Q:401:ILE:HG13	2.10	0.51
1:A:61:LEU:HB3	1:A:66:GLY:C	2.31	0.51
1:A:693:GLN:HB3	11:K:88:PHE:CE1	2.45	0.51
1:A:732:ILE:O	1:A:735:VAL:HG22	2.09	0.51
1:A:1105:ARG:O	1:A:1109:SER:HB3	2.09	0.51
2:B:77:LYS:HA	2:B:92:GLY:CA	2.38	0.51
2:B:211:ARG:CZ	2:B:239:VAL:HG21	2.40	0.51
2:B:290:ASP:OD1	13:M:28:LYS:HG3	2.10	0.51
2:B:794:ASP:OD2	2:B:930:LYS:HD2	2.10	0.51
2:B:1063:ARG:HB2	20:T:19:DC:OP1	2.10	0.51
2:B:1153:ILE:HG12	2:B:1157:GLN:HA	1.92	0.51
3:C:204:LEU:C	3:C:204:LEU:HD12	2.31	0.51
3:C:242:GLU:O	3:C:246:ARG:CB	2.58	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:172:GLU:HB3	5:E:213:ILE:CD1	2.39	0.51
6:F:127:GLU:HB2	6:F:129:LYS:HD3	1.91	0.51
10:J:28:ASP:OD2	10:J:30:LEU:HD13	2.11	0.51
13:M:42:LYS:O	14:N:30:LYS:N	2.37	0.51
15:O:7:UNK:O	17:Q:424:PHE:HB2	2.10	0.51
15:O:205:TYR:O	15:O:215:ASN:N	2.44	0.51
15:O:318:ILE:HG23	15:O:340:LYS:HZ3	1.75	0.51
15:O:589:ILE:HG22	16:P:320:PHE:CD2	2.44	0.51
16:P:93:LYS:HG2	16:P:207:LEU:N	2.25	0.51
16:P:100:ALA:HB1	16:P:211:TYR:OH	2.07	0.51
16:P:123:MET:HB3	16:P:125:PHE:CD2	2.45	0.51
1:A:77:GLY:CA	1:A:362:VAL:HB	2.40	0.51
1:A:1050:TYR:HE1	1:A:1185:VAL:HB	1.76	0.51
1:A:1254:PHE:HE1	1:A:1532:GLN:OE1	1.93	0.51
1:A:1313:LEU:HA	1:A:1316:VAL:CG1	2.40	0.51
1:A:1610:PHE:CD2	1:A:1632:GLU:HG2	2.45	0.51
1:A:1613:MET:HE1	1:A:1622:LEU:HD13	1.90	0.51
2:B:72:VAL:HG11	2:B:343:ASP:OD2	2.10	0.51
2:B:91:LEU:HD22	2:B:93:ASN:H	1.75	0.51
2:B:260:PHE:O	2:B:270:LEU:HD12	2.11	0.51
2:B:1153:ILE:HA	2:B:1158:ILE:O	2.10	0.51
5:E:30:ILE:HG22	5:E:35:VAL:HG23	1.91	0.51
10:J:21:TYR:CZ	10:J:25:LEU:HD11	2.44	0.51
12:L:28:LYS:HD3	12:L:39:SER:HG	1.75	0.51
15:O:186:TYR:HA	15:O:201:GLU:CB	2.40	0.51
15:O:474:LYS:HE2	15:O:498:LEU:CG	2.39	0.51
15:O:691:VAL:HG21	16:P:128:GLU:OE2	2.11	0.51
15:O:715:TYR:CD1	15:O:734:LYS:HE2	2.45	0.51
16:P:200:PRO:CA	16:P:203:TRP:H	2.23	0.51
16:P:301:HIS:HB2	16:P:304:LEU:HB2	1.92	0.51
17:Q:33:ARG:NH2	17:Q:33:ARG:CA	2.73	0.51
1:A:2:ASP:OD1	1:A:4:SER:N	2.29	0.51
1:A:385:LEU:HB2	1:A:437:PHE:HD1	1.74	0.51
1:A:587:VAL:HG22	1:A:636:HIS:O	2.11	0.51
1:A:945:CYS:O	1:A:985:ARG:HD3	2.10	0.51
2:B:65:VAL:HG11	2:B:102:VAL:HG21	1.91	0.51
2:B:621:PRO:HB2	2:B:623:ASP:OD1	2.10	0.51
2:B:827:PHE:HD2	2:B:869:THR:HG21	1.76	0.51
3:C:51:GLU:HA	3:C:303:GLU:HA	1.92	0.51
3:C:69:ARG:HD3	11:K:71:THR:OG1	2.10	0.51
4:D:90:LYS:O	4:D:93:GLN:HB3	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:43:ILE:CD1	7:G:122:LEU:HD11	2.39	0.51
10:J:3:VAL:HG13	10:J:3:VAL:O	2.09	0.51
13:M:38:PHE:HD2	14:N:119:LEU:HB2	1.75	0.51
14:N:74:PHE:HB2	14:N:78:THR:HG22	1.92	0.51
15:O:205:TYR:CD2	15:O:215:ASN:CB	2.93	0.51
15:O:290:GLU:C	15:O:339:ARG:HH21	2.14	0.51
15:O:290:GLU:HG2	15:O:338:LYS:HA	1.92	0.51
15:O:327:GLY:HA2	15:O:342:GLN:HB3	1.91	0.51
15:O:475:ARG:HB2	16:P:367:PHE:HE2	1.75	0.51
15:O:577:LEU:CG	16:P:499:LYS:CG	2.78	0.51
15:O:588:SER:HB3	16:P:512:ARG:HH11	1.63	0.51
16:P:73:SER:O	16:P:74:GLN:HB3	2.09	0.51
16:P:262:LEU:HD23	16:P:446:TYR:CE2	2.46	0.51
16:P:381:MET:HE3	16:P:385:PHE:HD2	0.70	0.51
16:P:494:SER:HG	16:P:497:GLN:H	1.55	0.51
17:Q:154:LYS:C	17:Q:156:LYS:N	2.33	0.51
20:T:21:DT:C2'	20:T:22:DG:H5"	2.21	0.51
1:A:62:CYS:O	1:A:66:GLY:N	2.36	0.51
1:A:500:VAL:HG21	2:B:1044:PHE:CE2	2.45	0.51
1:A:1029:GLY:O	1:A:1041:ALA:N	2.43	0.51
1:A:1217:LEU:HD21	1:A:1572:ARG:NH1	2.25	0.51
2:B:724:GLN:CG	18:R:5:G:OP1	2.55	0.51
2:B:825:PHE:HA	2:B:861:TYR:CA	2.39	0.51
7:G:44:ALA:HA	7:G:118:CYS:O	2.11	0.51
8:H:95:TYR:CD2	8:H:144:ILE:HD12	2.45	0.51
8:H:107:VAL:N	8:H:111:LEU:O	2.43	0.51
15:O:214:LEU:HD11	15:O:242:ILE:HD13	1.92	0.51
15:O:308:ASN:ND2	15:O:370:GLN:HA	2.25	0.51
15:O:312:LEU:C	15:O:312:LEU:HD22	2.30	0.51
15:O:533:LEU:HD12	15:O:533:LEU:C	2.30	0.51
15:O:686:TYR:CB	15:O:692:THR:HG23	2.16	0.51
15:O:727:PRO:HD3	16:P:264:PRO:HD2	1.92	0.51
16:P:309:TYR:O	16:P:313:THR:OG1	2.23	0.51
16:P:399:SER:N	16:P:410:ARG:CZ	2.74	0.51
1:A:27:LEU:C	1:A:27:LEU:HD12	2.31	0.51
1:A:122:LEU:CD2	1:A:219:LEU:HD23	2.41	0.51
1:A:481:ARG:HB2	2:B:1069:ILE:HG21	1.92	0.51
1:A:1089:LEU:C	1:A:1089:LEU:HD12	2.31	0.51
1:A:1127:TYR:HB3	1:A:1132:TYR:CD2	2.36	0.51
1:A:1242:ILE:HD11	1:A:1517:ARG:CB	2.40	0.51
2:B:52:LEU:HD23	2:B:60:LEU:HB2	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:938:PHE:CE1	2:B:1014:TYR:HD2	2.29	0.51
2:B:1119:ARG:N	2:B:1122:SER:HB2	2.25	0.51
2:B:1143:THR:HG21	7:G:16:PHE:HZ	1.76	0.51
5:E:88:VAL:HG21	5:E:112:TYR:HB3	1.92	0.51
7:G:95:LEU:N	7:G:95:LEU:CD1	2.73	0.51
7:G:145:ILE:CD1	7:G:217:TRP:HE3	2.24	0.51
13:M:39:ASP:HB2	13:M:54:HIS:O	2.11	0.51
15:O:381:ILE:HG22	15:O:382:GLU:O	2.10	0.51
15:O:394:VAL:O	15:O:395:GLN:CB	2.47	0.51
15:O:401:ASN:N	15:O:419:ARG:HG2	2.17	0.51
15:O:583:GLU:OE1	15:O:583:GLU:C	2.48	0.51
15:O:653:SER:CB	15:O:747:LEU:C	2.79	0.51
15:O:702:LEU:HD13	16:P:174:LEU:CB	2.40	0.51
16:P:28:THR:O	16:P:36:GLU:OE2	2.27	0.51
16:P:215:LEU:CD2	16:P:215:LEU:N	2.73	0.51
16:P:274:ILE:C	16:P:278:GLU:HB3	2.29	0.51
16:P:341:ARG:HH11	16:P:341:ARG:HG2	1.75	0.51
17:Q:257:ILE:O	17:Q:261:LEU:HB2	2.10	0.51
1:A:946:LEU:HD12	1:A:948:GLY:N	2.25	0.51
2:B:554:GLN:HA	2:B:646:HIS:NE2	2.26	0.51
2:B:733:LEU:HD22	2:B:741:LEU:CD1	2.40	0.51
9:I:2:SER:O	9:I:8:ILE:HA	2.11	0.51
10:J:1:MET:O	10:J:57:ILE:HB	2.10	0.51
15:O:382:GLU:HG2	15:O:383:ILE:N	2.26	0.51
15:O:420:GLU:C	15:O:421:ILE:HG13	2.31	0.51
15:O:604:ILE:HA	15:O:732:LEU:HD21	1.90	0.51
15:O:771:ILE:HG12	16:P:106:LYS:HG2	1.93	0.51
15:O:772:ILE:O	15:O:773:SER:C	2.48	0.51
16:P:100:ALA:CB	16:P:211:TYR:OH	2.58	0.51
17:Q:142:ARG:HH11	17:Q:142:ARG:CG	2.14	0.51
17:Q:144:VAL:CG1	17:Q:144:VAL:O	2.49	0.51
17:Q:204:GLU:OE1	17:Q:205:VAL:N	2.33	0.51
17:Q:207:ASN:CG	19:S:13:DA:OP2	2.49	0.51
17:Q:240:ILE:HD12	17:Q:250:LEU:HD13	1.93	0.51
17:Q:248:LYS:H	17:Q:298:GLN:HE22	1.47	0.51
20:T:21:DT:N1	20:T:22:DG:C8	2.78	0.51
1:A:496:GLY:HA3	1:A:608:LEU:HD12	1.93	0.51
1:A:535:GLN:HE22	16:P:26:ARG:NH1	2.05	0.51
1:A:1100:LYS:HA	1:A:1103:LYS:HD3	1.93	0.51
1:A:1295:ARG:HA	1:A:1469:TRP:HB3	1.93	0.51
2:B:194:PHE:CD2	2:B:465:LEU:CD2	2.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1180:PHE:CD1	2:B:1181:VAL:HG13	2.36	0.51
5:E:2:ASP:O	5:E:6:GLU:HB3	2.09	0.51
13:M:12:ILE:HG23	13:M:88:ILE:CD1	2.32	0.51
13:M:17:ASP:O	13:M:17:ASP:OD1	2.29	0.51
13:M:43:LYS:HZ3	13:M:45:LYS:HD3	1.76	0.51
15:O:314:GLN:C	15:O:316:ALA:N	2.64	0.51
15:O:635:ASN:HD22	15:O:685:TYR:HE1	1.58	0.51
15:O:652:GLY:O	15:O:655:SER:CA	2.55	0.51
17:Q:279:SER:OG	17:Q:281:LYS:HG3	2.10	0.51
1:A:58:LEU:C	16:P:63:THR:HG21	2.31	0.51
1:A:93:GLN:HG3	1:A:1627:LEU:HD11	1.92	0.51
1:A:530:TRP:O	1:A:580:HIS:CD2	2.64	0.51
1:A:1117:SER:O	1:A:1120:TYR:N	2.30	0.51
5:E:81:GLU:HB2	5:E:96:PHE:CZ	2.46	0.51
7:G:214:LEU:HD23	7:G:214:LEU:C	2.31	0.51
8:H:19:ARG:HG3	8:H:19:ARG:O	2.11	0.51
9:I:38:PRO:HB3	9:I:41:GLN:O	2.08	0.51
14:N:25:ILE:CG2	14:N:26:PRO:CD	2.84	0.51
15:O:356:GLU:N	15:O:356:GLU:OE1	2.35	0.51
15:O:408:ILE:HD11	15:O:464:LEU:HD13	1.90	0.51
15:O:537:PHE:HE1	15:O:552:LEU:CD1	2.24	0.51
15:O:698:LYS:HE3	16:P:124:ARG:O	2.10	0.51
16:P:6:ARG:HB3	16:P:71:GLN:CD	2.30	0.51
16:P:21:ARG:NH2	16:P:23:ILE:HD13	2.25	0.51
16:P:182:ILE:HD11	16:P:350:ARG:CA	2.40	0.51
16:P:257:VAL:HG13	16:P:263:PRO:HD3	1.85	0.51
16:P:258:MET:CA	16:P:262:LEU:HD13	2.41	0.51
16:P:259:GLN:NE2	16:P:259:GLN:CA	2.73	0.51
16:P:403:THR:CG2	16:P:405:ASP:H	2.23	0.51
16:P:404:ILE:N	16:P:404:ILE:CD1	2.73	0.51
16:P:482:HIS:O	16:P:485:SER:HB2	2.10	0.51
1:A:58:LEU:CA	16:P:63:THR:HG22	2.41	0.51
1:A:93:GLN:HG3	1:A:1627:LEU:CD1	2.41	0.51
1:A:250:LYS:HB3	1:A:314:TYR:CE1	2.46	0.51
1:A:591:ARG:HH11	1:A:591:ARG:CG	2.16	0.51
1:A:673:HIS:O	1:A:786:TYR:OH	2.29	0.51
1:A:1501:ILE:HG21	1:A:1528:ALA:HB1	1.93	0.51
2:B:547:HIS:NE2	2:B:548:LYS:HG2	2.25	0.51
3:C:297:HIS:C	3:C:298:PHE:HD1	2.14	0.51
15:O:420:GLU:CA	15:O:442:LEU:HD11	2.41	0.51
15:O:422:ILE:HB	15:O:440:HIS:CG	2.46	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:471:MET:O	15:O:504:THR:HB	2.11	0.51
15:O:567:ILE:O	16:P:478:ARG:CZ	2.59	0.51
15:O:671:SER:C	15:O:673:PRO:HD2	2.30	0.51
16:P:343:THR:OG1	16:P:347:SER:CA	2.59	0.51
17:Q:247:ILE:O	17:Q:250:LEU:CA	2.59	0.51
17:Q:284:PHE:CZ	19:S:21:DT:C4'	2.87	0.51
17:Q:292:SER:O	17:Q:293:ILE:CG1	2.59	0.51
1:A:257:ASN:OD1	1:A:258:GLU:N	2.44	0.50
1:A:423:LEU:O	1:A:427:PHE:HB2	2.11	0.50
1:A:842:TRP:CE3	1:A:910:LYS:HE3	2.47	0.50
1:A:1243:TRP:CZ3	1:A:1537:ASP:HB2	2.46	0.50
2:B:44:PRO:O	2:B:404:LEU:HD13	2.12	0.50
2:B:700:LEU:HD12	2:B:700:LEU:N	2.26	0.50
2:B:892:SER:CB	2:B:895:PHE:HB2	2.36	0.50
3:C:211:GLY:HA3	3:C:219:PHE:CE1	2.46	0.50
5:E:22:MET:O	5:E:26:ARG:HG3	2.11	0.50
5:E:97:VAL:CG2	5:E:132:ILE:HD13	2.41	0.50
7:G:133:LEU:O	7:G:230:ARG:HA	2.11	0.50
7:G:149:ILE:HD11	7:G:231:PHE:CZ	2.44	0.50
10:J:10:CYS:SG	10:J:11:GLY:N	2.83	0.50
10:J:68:LYS:HA	12:L:35:SER:OG	2.11	0.50
14:N:95:ILE:C	14:N:96:GLU:HG2	2.32	0.50
15:O:308:ASN:CB	15:O:365:TRP:CE2	2.82	0.50
15:O:775:TRP:CZ3	16:P:134:LYS:HG3	2.46	0.50
17:Q:246:GLN:O	17:Q:248:LYS:CB	2.59	0.50
17:Q:380:SER:O	17:Q:383:PHE:O	2.29	0.50
17:Q:388:LYS:HE3	17:Q:393:ILE:CA	2.41	0.50
1:A:254:THR:HA	1:A:312:SER:CB	2.41	0.50
1:A:1268:ASP:HB3	1:A:1295:ARG:O	2.11	0.50
1:A:1296:PHE:HE2	1:A:1470:CYS:HB2	1.75	0.50
2:B:123:PRO:HG2	2:B:172:LEU:HD11	1.94	0.50
2:B:251:HIS:CE1	2:B:261:ARG:CD	2.81	0.50
2:B:259:THR:HB	2:B:270:LEU:HD11	1.93	0.50
2:B:259:THR:HB	2:B:270:LEU:CG	2.40	0.50
5:E:20:LYS:HB3	5:E:35:VAL:HG22	1.94	0.50
5:E:79:TRP:HB2	5:E:105:PHE:CD2	2.46	0.50
13:M:57:ASN:ND2	13:M:60:LEU:HB2	2.13	0.50
15:O:24:UNK:CA	17:Q:314:TRP:HH2	1.97	0.50
16:P:100:ALA:O	16:P:211:TYR:CE2	2.64	0.50
16:P:105:LEU:HD21	16:P:109:GLN:NE2	2.25	0.50
16:P:144:ILE:HA	16:P:147:GLN:OE1	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:183:LYS:CD	16:P:189:LYS:HD2	2.42	0.50
16:P:497:GLN:O	16:P:498:LEU:C	2.50	0.50
17:Q:398:ASP:O	17:Q:399:ILE:C	2.47	0.50
1:A:105:CYS:HB3	1:A:236:CYS:HB3	1.92	0.50
1:A:796:SER:O	1:A:800:VAL:HG23	2.12	0.50
1:A:1023:LEU:CD1	1:A:1190:SER:HB3	2.41	0.50
1:A:1263:LEU:O	1:A:1266:VAL:HG22	2.11	0.50
1:A:1308:VAL:HG12	1:A:1499:ARG:HH12	1.77	0.50
1:A:1463:ASP:O	1:A:1467:GLY:N	2.44	0.50
2:B:226:GLY:O	2:B:229:TYR:HD2	1.94	0.50
11:K:49:LEU:HD13	11:K:63:PHE:HE1	1.76	0.50
14:N:93:THR:C	14:N:94:ASP:O	2.49	0.50
15:O:216:ILE:HB	15:O:234:THR:HG21	1.93	0.50
15:O:253:SER:O	15:O:254:ILE:HG13	2.11	0.50
15:O:302:VAL:HA	15:O:320:ILE:CD1	2.41	0.50
15:O:357:LEU:HD21	15:O:358:SER:HB3	1.91	0.50
15:O:571:HIS:HB3	15:O:574:TRP:HD1	1.76	0.50
15:O:706:GLU:OE2	16:P:346:GLU:CD	2.50	0.50
16:P:58:ARG:CZ	16:P:58:ARG:CB	2.86	0.50
16:P:171:HIS:CE1	16:P:243:PHE:CE1	3.00	0.50
16:P:246:GLU:HG2	16:P:286:LEU:HB3	1.74	0.50
17:Q:289:ASN:O	20:T:38:DA:H5”	2.11	0.50
17:Q:300:GLY:HA2	17:Q:304:HIS:HB3	1.92	0.50
17:Q:383:PHE:CD2	17:Q:388:LYS:HB3	2.45	0.50
1:A:55:GLY:C	1:A:62:CYS:CB	2.80	0.50
1:A:238:MET:SD	1:A:264:ASN:OD1	2.69	0.50
1:A:320:VAL:HG12	1:A:356:PHE:HZ	1.76	0.50
1:A:1138:GLU:OE1	5:E:207:ARG:HD3	2.10	0.50
2:B:161:LEU:HD12	2:B:162:PRO:HD2	1.93	0.50
2:B:194:PHE:HD2	2:B:465:LEU:HD21	1.76	0.50
2:B:359:LEU:HB3	2:B:361:HIS:CE1	2.47	0.50
3:C:54:PHE:CE2	3:C:56:LEU:HD11	2.47	0.50
3:C:80:ALA:HA	3:C:208:CYS:HA	1.93	0.50
4:D:93:GLN:O	4:D:97:LYS:HB2	2.11	0.50
5:E:7:ARG:HG2	5:E:11:ARG:NE	2.27	0.50
7:G:218:VAL:HG13	7:G:224:PRO:N	2.26	0.50
15:O:271:ILE:H	15:O:289:SER:HB2	1.76	0.50
15:O:436:ILE:HG21	17:Q:141:TRP:CZ2	2.42	0.50
15:O:458:LYS:HB3	15:O:459:PRO:HD2	1.92	0.50
16:P:206:GLN:C	16:P:208:PRO:N	2.62	0.50
16:P:284:LEU:HB2	16:P:305:ARG:HH11	1.75	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:301:HIS:ND1	16:P:304:LEU:HD22	2.26	0.50
16:P:337:SER:OG	16:P:448:LYS:CD	2.59	0.50
17:Q:33:ARG:CZ	17:Q:33:ARG:CB	2.89	0.50
17:Q:248:LYS:HA	17:Q:298:GLN:NE2	2.24	0.50
17:Q:393:ILE:HG12	17:Q:395:LEU:CB	2.41	0.50
20:T:22:DG:H2"	20:T:23:DA:C8	2.47	0.50
1:A:492:THR:HB	1:A:667:ARG:NH2	2.27	0.50
1:A:1066:PHE:CE1	1:A:1144:LEU:HD13	2.47	0.50
1:A:1129:PRO:HA	1:A:1135:SER:HB3	1.93	0.50
2:B:253:LEU:HD12	2:B:257:GLN:HB3	1.92	0.50
2:B:259:THR:HB	2:B:270:LEU:HD21	1.92	0.50
2:B:819:ASP:OD1	2:B:819:ASP:N	2.45	0.50
5:E:88:VAL:HB	5:E:116:ILE:HG13	1.93	0.50
7:G:67:ASN:N	7:G:68:PRO:HD2	2.26	0.50
12:L:40:LEU:HD12	12:L:44:ASP:HB3	1.94	0.50
13:M:60:LEU:HB3	13:M:100:VAL:HG12	1.92	0.50
14:N:54:TRP:CZ2	14:N:135:LYS:HD3	2.46	0.50
15:O:210:THR:O	15:O:210:THR:HG23	2.12	0.50
15:O:298:ASP:CG	17:Q:159:TYR:H	2.15	0.50
15:O:312:LEU:O	15:O:312:LEU:CD1	2.55	0.50
15:O:326:ILE:HG22	15:O:327:GLY:N	2.25	0.50
15:O:421:ILE:HG22	15:O:439:LYS:HG3	1.84	0.50
15:O:620:ASP:CG	15:O:624:GLN:HE21	2.14	0.50
15:O:730:GLU:HG2	15:O:733:THR:HB	1.93	0.50
16:P:176:VAL:CG2	16:P:177:TYR:N	2.73	0.50
16:P:200:PRO:O	16:P:203:TRP:N	2.44	0.50
16:P:335:THR:CG2	16:P:479:LEU:HG	2.40	0.50
1:A:102:CYS:HB3	1:A:105:CYS:SG	2.52	0.50
1:A:363:PRO:CB	2:B:1180:PHE:CE2	2.94	0.50
1:A:547:ILE:CG2	16:P:21:ARG:HD3	2.36	0.50
1:A:729:LYS:CG	1:A:776:LEU:HD23	2.41	0.50
1:A:793:ILE:HG23	1:A:794:VAL:N	2.26	0.50
1:A:1003:ARG:CZ	2:B:520:LEU:HB2	2.41	0.50
1:A:1147:PHE:HD2	1:A:1148:LEU:HD23	1.76	0.50
2:B:478:LEU:HD13	2:B:484:TYR:CE1	2.47	0.50
2:B:873:THR:HB	2:B:875:HIS:CE1	2.46	0.50
3:C:40:PHE:CD2	11:K:134:LYS:HD2	2.36	0.50
5:E:201:LYS:HA	5:E:206:GLY:O	2.11	0.50
6:F:76:LYS:HA	6:F:79:ARG:HG3	1.94	0.50
10:J:8:PHE:HB2	10:J:48:ARG:HH22	1.75	0.50
10:J:44:TYR:HA	10:J:47:ARG:HG3	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:49:LEU:HD13	11:K:63:PHE:CE1	2.46	0.50
15:O:6:UNK:O	17:Q:425:ALA:CB	2.55	0.50
15:O:269:PHE:CE1	15:O:339:ARG:HD2	2.35	0.50
15:O:477:TYR:OH	15:O:494:CYS:SG	2.66	0.50
15:O:529:GLU:CG	15:O:530:ASN:H	2.23	0.50
16:P:155:GLN:O	20:T:45:DC:H5"	2.10	0.50
16:P:170:THR:O	16:P:171:HIS:C	2.47	0.50
16:P:260:CYS:SG	16:P:261:ALA:N	2.85	0.50
16:P:404:ILE:O	16:P:408:ILE:HG13	2.11	0.50
16:P:418:PRO:CA	16:P:419:LEU:HD23	2.41	0.50
17:Q:124:GLU:CG	17:Q:289:ASN:HD21	2.21	0.50
1:A:486:PRO:O	1:A:615:ARG:HD2	2.11	0.50
1:A:542:SER:CB	16:P:34:VAL:HG12	2.26	0.50
1:A:1603:MET:HE1	1:A:1615:TYR:CD1	2.46	0.50
2:B:627:GLY:O	2:B:641:TYR:N	2.45	0.50
2:B:773:VAL:O	2:B:1028:VAL:HG13	2.12	0.50
5:E:59:SER:CB	5:E:81:GLU:HA	2.42	0.50
5:E:87:SER:HA	5:E:115:ASN:O	2.11	0.50
6:F:76:LYS:HD3	6:F:79:ARG:HD3	1.94	0.50
7:G:138:PHE:HD2	7:G:139:ILE:HG12	1.76	0.50
7:G:218:VAL:HG22	7:G:224:PRO:CA	2.42	0.50
7:G:218:VAL:CA	7:G:224:PRO:HA	2.19	0.50
13:M:75:GLN:N	14:N:58:PHE:O	2.40	0.50
16:P:204:ARG:HH22	19:S:14:DA:C3'	2.18	0.50
1:A:32:ILE:HG12	1:A:362:VAL:HG21	1.93	0.50
1:A:259:LYS:O	1:A:263:ASN:HB2	2.12	0.50
1:A:461:GLU:O	1:A:465:GLY:N	2.45	0.50
1:A:488:PRO:HD2	2:B:781:TYR:CZ	2.47	0.50
1:A:1057:ILE:HD12	1:A:1057:ILE:N	2.27	0.50
2:B:165:LEU:HB3	2:B:166:GLN:OE1	2.12	0.50
2:B:225:ARG:NH1	2:B:268:GLU:OE1	2.45	0.50
2:B:289:PHE:CZ	2:B:293:ILE:HG21	2.46	0.50
2:B:412:ILE:HG13	2:B:461:MET:HE1	1.94	0.50
2:B:913:ILE:O	2:B:913:ILE:HG13	2.12	0.50
2:B:1079:LEU:O	2:B:1084:THR:HG22	2.12	0.50
3:C:132:ILE:O	3:C:208:CYS:N	2.39	0.50
3:C:325:ALA:CB	11:K:125:MET:HG3	2.42	0.50
7:G:63:LYS:HA	7:G:67:ASN:HD22	1.74	0.50
7:G:169:VAL:HG23	7:G:216:HIS:CB	2.41	0.50
9:I:38:PRO:HB3	9:I:42:PHE:HA	1.94	0.50
9:I:38:PRO:HA	9:I:41:GLN:O	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:327:GLY:HA3	15:O:340:LYS:CD	2.24	0.50
15:O:499:GLU:CG	15:O:500:ILE:N	2.69	0.50
15:O:659:LEU:N	15:O:659:LEU:CD2	2.61	0.50
15:O:760:ILE:CG2	16:P:138:LEU:HD13	2.35	0.50
15:O:760:ILE:CD1	16:P:138:LEU:HB3	2.42	0.50
16:P:39:VAL:CG2	16:P:41:PHE:CE2	2.94	0.50
16:P:108:PHE:HE1	16:P:156:LEU:HD13	1.68	0.50
16:P:116:ILE:CA	16:P:119:LEU:HD12	2.32	0.50
16:P:414:TYR:CD1	17:Q:241:ARG:HD3	2.46	0.50
1:A:8:GLY:O	2:B:1194:ILE:CD1	2.60	0.50
1:A:42:GLY:HA2	16:P:61:ASN:HB2	1.86	0.50
1:A:104:PHE:CD1	1:A:238:MET:HB3	2.47	0.50
1:A:1260:LYS:HD3	1:A:1500:GLN:CG	2.42	0.50
2:B:42:VAL:HG21	2:B:190:ILE:HB	1.94	0.50
2:B:648:ARG:NH1	2:B:650:LEU:HD11	2.27	0.50
3:C:230:LEU:HD12	3:C:231:PRO:CD	2.40	0.50
5:E:55:ARG:HB3	5:E:82:PHE:HB3	1.94	0.50
5:E:59:SER:HB3	5:E:80:VAL:O	2.11	0.50
7:G:143:SER:O	7:G:158:LYS:HG3	2.11	0.50
15:O:11:UNK:O	15:O:436:ILE:HD11	2.11	0.50
15:O:215:ASN:CA	15:O:236:ILE:CG1	2.89	0.50
15:O:276:SER:OG	15:O:277:VAL:N	2.43	0.50
15:O:410:ASP:O	15:O:411:LYS:CB	2.59	0.50
16:P:10:CYS:H	16:P:18:ARG:NH2	2.10	0.50
16:P:301:HIS:CB	16:P:304:LEU:HD13	2.42	0.50
16:P:313:THR:O	16:P:317:MET:HB2	2.11	0.50
17:Q:216:LEU:HD11	17:Q:242:ILE:HD12	1.92	0.50
17:Q:299:THR:HG23	17:Q:304:HIS:HE1	1.66	0.50
17:Q:395:LEU:N	17:Q:395:LEU:CD2	2.73	0.50
1:A:109:ARG:O	1:A:230:ARG:HG3	2.12	0.49
1:A:335:LEU:HD22	1:A:339:PHE:HE2	1.77	0.49
1:A:821:ILE:O	1:A:825:ALA:HA	2.12	0.49
1:A:1255:CYS:HA	1:A:1507:CYS:SG	2.52	0.49
2:B:75:ASP:O	2:B:78:PRO:HD3	2.12	0.49
2:B:128:GLN:HE21	2:B:735:HIS:HA	1.77	0.49
2:B:262:PHE:CE1	2:B:269:TYR:HB2	2.47	0.49
2:B:438:ILE:HG21	2:B:445:TYR:CD1	2.47	0.49
2:B:773:VAL:HG21	2:B:1031:VAL:HB	1.94	0.49
2:B:933:THR:HG23	2:B:944:GLN:HG3	1.94	0.49
2:B:938:PHE:CE1	2:B:1014:TYR:HB2	2.47	0.49
2:B:1051:PRO:N	16:P:40:GLU:OE1	2.45	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:148:LEU:CD2	7:G:151:ASP:HA	2.42	0.49
8:H:99:GLY:HA3	8:H:118:PHE:CD2	2.47	0.49
8:H:129:TYR:O	8:H:132:LEU:HG	2.11	0.49
15:O:352:PHE:O	15:O:354:PRO:HD2	2.05	0.49
15:O:416:LEU:HD12	15:O:417:THR:N	2.26	0.49
15:O:585:GLU:C	15:O:587:GLU:N	2.64	0.49
15:O:698:LYS:HE2	16:P:126:PRO:HG3	1.90	0.49
16:P:4:PHE:CE2	16:P:18:ARG:NH2	2.80	0.49
16:P:184:TRP:HD1	16:P:190:MET:N	1.98	0.49
16:P:417:PHE:O	17:Q:233:TYR:OH	2.25	0.49
17:Q:281:LYS:HA	17:Q:301:SER:CB	2.30	0.49
1:A:8:GLY:O	2:B:1194:ILE:HD12	2.12	0.49
1:A:113:VAL:HG11	1:A:178:LEU:CB	2.21	0.49
1:A:1292:ILE:HD12	1:A:1472:PHE:CE2	2.46	0.49
2:B:292:ILE:HG13	2:B:375:LEU:HD22	1.93	0.49
2:B:941:THR:O	2:B:941:THR:HG22	2.11	0.49
7:G:157:ILE:HG22	7:G:162:ILE:HG13	1.92	0.49
7:G:157:ILE:HG12	7:G:247:GLY:C	2.33	0.49
13:M:38:PHE:HZ	14:N:121:ILE:HG13	1.77	0.49
13:M:41:TYR:OH	14:N:24:SER:HA	2.12	0.49
15:O:312:LEU:HD13	15:O:312:LEU:C	2.32	0.49
15:O:366:PHE:HB2	15:O:373:LEU:HG	1.94	0.49
15:O:580:ASN:HB2	16:P:506:LYS:HZ3	1.77	0.49
15:O:658:LYS:C	15:O:659:LEU:CG	2.79	0.49
15:O:698:LYS:HE2	16:P:126:PRO:HD2	1.88	0.49
16:P:29:CYS:CB	16:P:33:HIS:H	2.24	0.49
16:P:263:PRO:CB	16:P:266:PHE:CE2	2.92	0.49
16:P:343:THR:C	16:P:345:SER:N	2.57	0.49
16:P:505:ILE:HG23	16:P:506:LYS:N	2.27	0.49
1:A:9:SER:HA	2:B:1194:ILE:HD11	0.72	0.49
1:A:546:LEU:HD23	1:A:549:MET:SD	2.52	0.49
1:A:572:THR:CG2	7:G:53:TYR:HE2	2.21	0.49
1:A:677:GLY:HA2	1:A:817:PHE:CE1	2.47	0.49
1:A:1112:PRO:HG2	1:A:1115:LYS:HE3	1.94	0.49
1:A:1559:ARG:NH2	1:A:1587:ASP:OD2	2.38	0.49
2:B:361:HIS:NE2	2:B:362:LEU:HG	2.27	0.49
2:B:532:HIS:HB2	2:B:698:SER:OG	2.12	0.49
2:B:726:MET:HE2	2:B:1035:ARG:CG	2.42	0.49
3:C:293:ARG:HH11	3:C:293:ARG:HG3	1.76	0.49
5:E:128:PRO:C	5:E:130:ALA:N	2.66	0.49
6:F:74:ILE:HG13	6:F:142:SER:HB3	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:47:ARG:CD	16:P:405:ASP:OD1	2.61	0.49
13:M:9:GLU:CA	14:N:73:ASP:HB3	2.42	0.49
15:O:181:ARG:HB2	15:O:245:ILE:HD12	1.95	0.49
15:O:247:ILE:CG1	15:O:261:VAL:HG13	2.42	0.49
15:O:321:LYS:O	15:O:348:HIS:CE1	2.66	0.49
15:O:352:PHE:O	15:O:354:PRO:CD	2.56	0.49
15:O:363:ILE:CG2	15:O:374:VAL:HG22	2.42	0.49
15:O:433:VAL:HG21	17:Q:144:VAL:CG1	2.38	0.49
15:O:704:LEU:O	15:O:706:GLU:N	2.44	0.49
16:P:156:LEU:HA	16:P:160:SER:OG	2.12	0.49
16:P:206:GLN:O	16:P:207:LEU:O	2.31	0.49
16:P:221:PRO:HB2	16:P:226:LEU:HD21	0.67	0.49
17:Q:127:PHE:CE1	17:Q:131:TYR:HD2	2.12	0.49
17:Q:301:SER:O	17:Q:302:ARG:HG2	2.11	0.49
17:Q:385:ASN:N	17:Q:385:ASN:ND2	2.60	0.49
1:A:23:GLU:OE2	2:B:1130:ARG:NH1	2.41	0.49
1:A:117:ARG:HD3	1:A:185:ARG:NH2	2.27	0.49
1:A:217:LYS:NZ	1:A:1604:GLU:O	2.46	0.49
1:A:1255:CYS:SG	1:A:1519:LEU:HD13	2.52	0.49
1:A:1298:ASP:N	1:A:1468:LYS:HZ3	2.10	0.49
1:A:1317:ILE:O	1:A:1322:ILE:HG22	2.13	0.49
2:B:202:LEU:HD21	2:B:499:HIS:CB	2.39	0.49
2:B:317:TYR:HB3	2:B:320:LEU:HG	1.95	0.49
2:B:738:ASP:HB2	2:B:741:LEU:HG	1.94	0.49
13:M:12:ILE:HG13	14:N:69:SER:C	2.32	0.49
15:O:214:LEU:CB	15:O:236:ILE:HG13	2.42	0.49
15:O:307:PHE:HA	15:O:315:PHE:HB2	1.93	0.49
15:O:314:GLN:OE1	15:O:329:ILE:O	2.30	0.49
15:O:414:ILE:O	15:O:424:VAL:HB	2.12	0.49
15:O:489:PHE:O	15:O:490:GLN:HG3	2.12	0.49
16:P:95:LEU:HD11	16:P:100:ALA:CA	2.43	0.49
16:P:259:GLN:NE2	16:P:259:GLN:HA	2.26	0.49
1:A:440:SER:OG	1:A:454:PRO:HA	2.12	0.49
1:A:532:GLY:N	1:A:580:HIS:HD2	2.10	0.49
1:A:569:SER:OG	4:D:12:THR:N	2.30	0.49
1:A:571:HIS:NE2	1:A:572:THR:HG23	2.27	0.49
2:B:98:SER:OG	2:B:142:LYS:HB3	2.13	0.49
3:C:59:ILE:HG12	3:C:60:ASP:H	1.78	0.49
3:C:275:VAL:HG11	3:C:293:ARG:HH22	1.76	0.49
15:O:214:LEU:HD12	15:O:263:ILE:HD13	1.91	0.49
15:O:309:PRO:O	15:O:368:HIS:NE2	2.44	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:314:GLN:NE2	15:O:330:PRO:C	2.64	0.49
15:O:380:MET:CE	15:O:434:ARG:NH2	2.75	0.49
15:O:436:ILE:HG22	17:Q:141:TRP:CZ2	2.47	0.49
15:O:577:LEU:CD2	16:P:499:LYS:CE	2.91	0.49
16:P:101:LYS:HZ1	16:P:152:LEU:HA	1.64	0.49
16:P:165:LEU:CD1	16:P:190:MET:HE1	2.38	0.49
16:P:234:CYS:C	16:P:289:ARG:HB3	2.33	0.49
16:P:280:ASP:O	16:P:281:ILE:CG2	2.60	0.49
16:P:315:ASN:OD1	16:P:315:ASN:O	2.31	0.49
16:P:335:THR:HG23	16:P:479:LEU:HD12	1.94	0.49
16:P:354:LYS:CB	16:P:362:THR:CB	2.90	0.49
1:A:396:ILE:HD12	1:A:430:ILE:HD12	1.92	0.49
2:B:277:LEU:HD23	2:B:374:LEU:HD23	1.93	0.49
2:B:427:GLN:CG	2:B:449:VAL:HG13	2.42	0.49
2:B:537:SER:OG	2:B:538:PRO:HD3	2.12	0.49
2:B:794:ASP:OD1	2:B:911:PRO:HB2	2.12	0.49
2:B:1132:SER:HA	2:B:1161:ASP:O	2.13	0.49
3:C:163:TYR:CE1	3:C:192:LEU:HD13	2.48	0.49
9:I:8:ILE:HG23	9:I:8:ILE:O	2.12	0.49
11:K:74:ASN:OD1	11:K:77:ARG:HD3	2.12	0.49
14:N:91:ASP:HB2	14:N:137:PHE:CE1	2.48	0.49
15:O:302:VAL:HA	15:O:320:ILE:HD11	1.94	0.49
15:O:384:ASP:OD2	15:O:387:ASN:CB	2.57	0.49
15:O:405:TYR:HE2	15:O:414:ILE:CG2	2.24	0.49
15:O:470:SER:O	15:O:504:THR:CG2	2.59	0.49
15:O:495:SER:HA	17:Q:225:SER:HB2	1.94	0.49
16:P:157:HIS:CD2	16:P:158:MET:CG	2.85	0.49
16:P:246:GLU:O	16:P:285:THR:C	2.50	0.49
16:P:278:GLU:OE1	16:P:278:GLU:O	2.30	0.49
16:P:357:TYR:CA	17:Q:211:ARG:HD2	2.41	0.49
17:Q:127:PHE:HE1	17:Q:131:TYR:HE2	0.75	0.49
17:Q:380:SER:C	17:Q:384:VAL:HG22	2.32	0.49
17:Q:380:SER:CA	17:Q:384:VAL:HG13	2.37	0.49
1:A:59:ARG:HH22	16:P:7:GLY:CA	2.12	0.49
1:A:123:ARG:HD3	1:A:189:VAL:HG11	1.93	0.49
1:A:361:VAL:HG21	2:B:1184:TYR:HA	1.94	0.49
1:A:437:PHE:CE2	2:B:1184:TYR:CE2	3.01	0.49
1:A:538:ASN:ND2	1:A:542:SER:OG	2.43	0.49
2:B:228:SER:O	2:B:253:LEU:HA	2.13	0.49
2:B:295:ASN:O	2:B:295:ASN:OD1	2.30	0.49
2:B:1061:LYS:HB2	16:P:45:GLU:HB3	1.88	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:325:ALA:HB3	11:K:125:MET:HG3	1.95	0.49
10:J:44:TYR:HA	10:J:47:ARG:CB	2.43	0.49
13:M:12:ILE:CG2	13:M:88:ILE:HD11	2.32	0.49
13:M:76:TYR:CZ	14:N:57:LYS:HE2	2.47	0.49
15:O:194:ARG:CB	15:O:197:ARG:NH2	2.68	0.49
15:O:196:TYR:CG	15:O:197:ARG:N	2.79	0.49
15:O:247:ILE:HG12	15:O:261:VAL:HG13	1.94	0.49
15:O:360:TRP:O	15:O:361:LYS:HG3	2.12	0.49
15:O:427:SER:O	15:O:435:ARG:HD3	2.12	0.49
15:O:650:LEU:HD23	16:P:139:LYS:HD2	1.91	0.49
15:O:771:ILE:HD13	16:P:105:LEU:HD22	1.94	0.49
16:P:256:LEU:O	16:P:259:GLN:CB	2.60	0.49
17:Q:354:LEU:HD23	17:Q:354:LEU:C	2.32	0.49
17:Q:380:SER:C	17:Q:384:VAL:CG2	2.81	0.49
1:A:1477:ALA:O	1:A:1480:THR:HG23	2.12	0.49
2:B:95:LEU:HD12	2:B:95:LEU:O	2.12	0.49
2:B:97:VAL:HG12	2:B:98:SER:N	2.27	0.49
2:B:656:LEU:CB	14:N:148:ILE:HD13	2.42	0.49
2:B:792:SER:HB3	2:B:796:ARG:NH1	2.28	0.49
2:B:862:PHE:CZ	2:B:867:ASN:HA	2.47	0.49
3:C:88:ASN:HB3	12:L:60:ARG:NH1	2.26	0.49
5:E:202:SER:N	5:E:206:GLY:O	2.31	0.49
6:F:93:ILE:HD13	6:F:148:VAL:HG22	1.94	0.49
6:F:99:LEU:HD21	7:G:112:PRO:HD3	1.95	0.49
8:H:101:ALA:CA	8:H:116:TYR:HD1	2.26	0.49
11:K:136:THR:O	11:K:140:LYS:HG3	2.12	0.49
15:O:394:VAL:HG12	17:Q:141:TRP:CD1	2.47	0.49
15:O:725:VAL:HG13	16:P:452:PHE:CB	2.37	0.49
16:P:417:PHE:CE1	17:Q:258:LEU:HD11	2.48	0.49
16:P:419:LEU:N	16:P:419:LEU:CD2	2.73	0.49
16:P:497:GLN:HA	16:P:500:ASP:HB3	1.95	0.49
1:A:379:GLU:N	16:P:56:ILE:H	2.11	0.49
1:A:1032:VAL:HG22	1:A:1038:ILE:HD11	1.92	0.49
2:B:274:VAL:HG21	2:B:309:LEU:HG	1.93	0.49
2:B:328:GLN:NE2	13:M:109:ARG:H	2.11	0.49
5:E:170:LEU:O	5:E:170:LEU:HD12	2.13	0.49
8:H:48:PRO:HG2	8:H:146:ARG:NH1	2.23	0.49
13:M:24:GLY:O	14:N:108:THR:HB	2.13	0.49
13:M:43:LYS:HZ3	13:M:45:LYS:CD	2.25	0.49
15:O:183:ASP:OD2	15:O:245:ILE:HG22	2.13	0.49
15:O:270:GLN:HE21	15:O:289:SER:HB2	1.77	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:352:PHE:HB3	15:O:354:PRO:HG2	1.95	0.49
15:O:399:TRP:NE1	17:Q:134:PRO:HG3	2.27	0.49
15:O:408:ILE:O	15:O:409:ASP:CB	2.59	0.49
15:O:630:LEU:HD12	15:O:630:LEU:C	2.33	0.49
16:P:137:TRP:CD1	16:P:141:LEU:CD1	2.96	0.49
16:P:403:THR:CG2	16:P:406:GLN:HG2	2.43	0.49
1:A:399:LEU:HD21	1:A:422:ARG:HB3	1.94	0.49
1:A:1288:ARG:O	1:A:1475:GLU:HA	2.12	0.49
1:A:1640:ARG:CG	1:A:1645:LYS:HB2	2.30	0.49
2:B:328:GLN:HE22	13:M:109:ARG:H	1.61	0.49
2:B:398:GLN:NE2	2:B:636:GLN:HE22	2.10	0.49
2:B:790:ASN:HB3	2:B:793:ALA:HB3	1.94	0.49
3:C:172:GLN:HB2	3:C:175:GLN:NE2	2.28	0.49
14:N:52:GLN:HB3	14:N:54:TRP:HE1	1.78	0.49
15:O:200:THR:OG1	15:O:218:VAL:HG13	2.13	0.49
15:O:611:ILE:HG23	15:O:731:LEU:CD2	2.43	0.49
15:O:620:ASP:OD1	15:O:674:GLU:CD	2.51	0.49
16:P:48:LEU:O	16:P:49:ASN:C	2.47	0.49
16:P:93:LYS:CG	16:P:207:LEU:HB3	2.27	0.49
16:P:110:PHE:HD2	16:P:198:ILE:HG23	1.68	0.49
16:P:115:GLN:HE21	16:P:190:MET:CE	2.25	0.49
16:P:225:GLN:HE22	20:T:46:DT:C5'	2.26	0.49
16:P:282:ARG:NH2	16:P:283:ASN:O	2.45	0.49
16:P:287:TRP:CE3	16:P:290:THR:CG2	2.93	0.49
16:P:337:SER:OG	16:P:448:LYS:HE3	2.13	0.49
16:P:378:LEU:O	16:P:378:LEU:HD23	2.13	0.49
17:Q:149:LYS:NZ	17:Q:149:LYS:CB	2.73	0.49
17:Q:204:GLU:OE1	17:Q:205:VAL:HG23	2.13	0.49
1:A:6:PRO:HD3	7:G:113:PHE:CE2	2.47	0.48
1:A:592:GLN:CB	1:A:593:PRO:HD2	1.96	0.48
1:A:1049:MET:HE1	1:A:1124:LEU:HB3	1.94	0.48
1:A:1458:THR:OG1	1:A:1473:LYS:HB3	2.13	0.48
2:B:225:ARG:CD	2:B:261:ARG:HH12	2.26	0.48
3:C:278:GLU:CD	3:C:281:ARG:HD3	2.33	0.48
3:C:329:LYS:HE3	11:K:122:LYS:HZ3	1.77	0.48
6:F:93:ILE:HD11	6:F:134:ILE:CD1	2.39	0.48
7:G:34:THR:HB	7:G:133:LEU:HD22	1.94	0.48
7:G:69:LEU:HG	7:G:81:VAL:CG2	2.41	0.48
15:O:260:LEU:HD23	15:O:271:ILE:CG2	2.43	0.48
15:O:414:ILE:CG2	15:O:415:LEU:N	2.75	0.48
15:O:436:ILE:CG2	17:Q:141:TRP:CE2	2.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:615:ASN:C	15:O:617:HIS:N	2.66	0.48
15:O:722:TRP:CZ2	16:P:262:LEU:CD1	2.90	0.48
16:P:352:ILE:HA	16:P:355:VAL:CG2	2.43	0.48
1:A:321:LYS:HA	1:A:356:PHE:CE2	2.46	0.48
1:A:334:VAL:HG13	1:A:335:LEU:N	2.28	0.48
1:A:361:VAL:CG2	2:B:1184:TYR:HD1	2.26	0.48
1:A:411:VAL:N	1:A:413:LEU:HD11	2.24	0.48
1:A:657:TYR:O	1:A:658:LEU:HD23	2.12	0.48
1:A:708:THR:HG22	1:A:708:THR:O	2.13	0.48
2:B:235:GLN:HE21	2:B:247:THR:HG21	1.77	0.48
5:E:48:ASP:OD1	5:E:51:GLY:N	2.46	0.48
5:E:100:ILE:HG23	5:E:105:PHE:HB2	1.95	0.48
13:M:43:LYS:HG3	14:N:28:GLY:O	2.13	0.48
15:O:194:ARG:CB	15:O:197:ARG:HH12	2.23	0.48
15:O:270:GLN:OE1	15:O:291:PRO:CD	2.62	0.48
15:O:433:VAL:CG1	17:Q:144:VAL:CG2	2.90	0.48
15:O:475:ARG:HE	15:O:496:THR:CG2	2.26	0.48
15:O:498:LEU:HD23	15:O:499:GLU:N	2.28	0.48
15:O:504:THR:H	15:O:542:ARG:HB3	1.77	0.48
15:O:596:ILE:CG2	16:P:317:MET:CE	2.91	0.48
15:O:757:GLN:C	15:O:760:ILE:HG22	2.33	0.48
16:P:386:LEU:N	16:P:388:THR:HG22	2.27	0.48
17:Q:33:ARG:NH2	17:Q:33:ARG:CG	2.73	0.48
17:Q:147:GLN:CD	17:Q:147:GLN:H	2.16	0.48
1:A:340:HIS:HB3	1:A:342:ARG:O	2.13	0.48
1:A:409:ASP:C	1:A:410:LYS:HG2	2.30	0.48
1:A:1440:ASN:O	1:A:1444:ARG:HG3	2.12	0.48
2:B:132:SER:OG	2:B:462:GLN:NE2	2.46	0.48
2:B:145:VAL:HB	2:B:150:GLU:HB3	1.95	0.48
2:B:751:ILE:HG13	2:B:770:ASN:OD1	2.13	0.48
3:C:151:THR:O	3:C:155:GLU:HB2	2.01	0.48
4:D:12:THR:HA	4:D:17:ASN:CG	2.34	0.48
7:G:41:VAL:HG13	7:G:41:VAL:O	2.13	0.48
8:H:5:LEU:HD11	8:H:61:SER:CB	2.43	0.48
14:N:41:ASN:HA	14:N:44:ASN:HB3	1.94	0.48
14:N:114:GLU:HG3	14:N:116:LYS:H	1.78	0.48
15:O:22:UNK:O	17:Q:314:TRP:CG	2.66	0.48
15:O:56:UNK:HA	15:O:551:ALA:O	2.13	0.48
15:O:324:TRP:CH2	15:O:346:ASN:HA	2.48	0.48
15:O:375:PHE:CD1	15:O:380:MET:HG2	2.48	0.48
15:O:474:LYS:CD	15:O:499:GLU:O	2.60	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:657:SER:OG	15:O:745:ALA:O	2.19	0.48
15:O:669:PHE:CD1	15:O:738:LYS:NZ	2.81	0.48
16:P:123:MET:O	16:P:125:PHE:CD1	2.66	0.48
16:P:171:HIS:CD2	16:P:243:PHE:HB3	2.48	0.48
16:P:183:LYS:HG2	16:P:189:LYS:HE3	1.94	0.48
16:P:287:TRP:NE1	16:P:298:VAL:HG13	2.22	0.48
16:P:382:GLU:O	16:P:382:GLU:CD	2.52	0.48
17:Q:208:TYR:CE1	17:Q:212:HIS:HE1	2.30	0.48
17:Q:424:PHE:CD1	17:Q:424:PHE:N	2.80	0.48
1:A:334:VAL:HG22	1:A:338:VAL:CG2	2.44	0.48
1:A:423:LEU:C	1:A:423:LEU:HD13	2.33	0.48
1:A:1294:MET:HE1	1:A:1321:PHE:CE2	2.48	0.48
1:A:1483:LEU:CD1	1:A:1485:MET:HB2	2.43	0.48
1:A:1628:ASP:HB3	1:A:1630:GLU:OE2	2.13	0.48
2:B:1000:LEU:O	2:B:1003:ALA:HB3	2.13	0.48
8:H:100:THR:O	8:H:116:TYR:HA	2.13	0.48
13:M:60:LEU:HB3	13:M:101:VAL:O	2.12	0.48
13:M:65:TYR:C	13:M:96:LEU:HD23	2.32	0.48
15:O:233:VAL:CG1	15:O:234:THR:N	2.76	0.48
15:O:359:SER:O	15:O:360:TRP:O	2.31	0.48
16:P:157:HIS:CE1	16:P:158:MET:HE2	2.48	0.48
16:P:282:ARG:HH11	16:P:282:ARG:HG3	1.77	0.48
17:Q:204:GLU:O	17:Q:205:VAL:C	2.49	0.48
1:A:747:ILE:HD11	1:A:796:SER:HB3	1.94	0.48
1:A:1020:GLN:NE2	1:A:1194:GLY:HA3	2.28	0.48
1:A:1640:ARG:HG2	1:A:1645:LYS:CB	2.33	0.48
2:B:77:LYS:HD2	2:B:89:GLY:N	2.27	0.48
3:C:69:ARG:CD	11:K:71:THR:OG1	2.62	0.48
5:E:78:LEU:HD23	5:E:78:LEU:C	2.34	0.48
7:G:162:ILE:CD1	7:G:217:TRP:HZ3	2.27	0.48
11:K:136:THR:CG2	11:K:140:LYS:HE3	2.43	0.48
12:L:51:CYS:SG	12:L:53:HIS:HB2	2.53	0.48
15:O:535:VAL:O	15:O:552:LEU:N	2.45	0.48
16:P:53:ALA:O	16:P:54:GLY:C	2.51	0.48
16:P:246:GLU:O	16:P:247:ILE:HB	2.13	0.48
16:P:297:ARG:HD2	16:P:500:ASP:OD2	2.13	0.48
16:P:354:LYS:CB	16:P:362:THR:HB	2.40	0.48
17:Q:134:PRO:O	17:Q:135:GLU:CD	2.52	0.48
1:A:248:PHE:HE2	1:A:442:LYS:HE3	1.76	0.48
1:A:409:ASP:OD1	1:A:411:VAL:CA	2.62	0.48
1:A:486:PRO:HB2	1:A:618:TYR:CZ	2.47	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:669:LEU:HB2	1:A:786:TYR:HE2	1.79	0.48
1:A:1119:LYS:HE3	1:A:1120:TYR:CZ	2.47	0.48
1:A:1475:GLU:O	1:A:1476:LEU:HD23	2.13	0.48
2:B:282:HIS:NE2	13:M:101:VAL:HG12	2.27	0.48
2:B:938:PHE:CZ	2:B:1014:TYR:HB2	2.49	0.48
3:C:120:LEU:HD12	3:C:121:PRO:O	2.13	0.48
5:E:147:HIS:HE1	5:E:149:LEU:HG	1.77	0.48
13:M:27:PHE:CE2	13:M:30:PHE:HD1	2.31	0.48
14:N:58:PHE:CD2	14:N:64:ILE:HD12	2.49	0.48
15:O:14:UNK:O	15:O:439:LYS:O	2.32	0.48
15:O:189:THR:O	15:O:192:ASP:N	2.45	0.48
15:O:215:ASN:CA	15:O:236:ILE:HG12	2.42	0.48
15:O:375:PHE:CG	15:O:380:MET:HG2	2.49	0.48
15:O:428:GLU:HG3	15:O:435:ARG:CB	2.32	0.48
15:O:656:HIS:CD2	15:O:747:LEU:C	2.82	0.48
16:P:110:PHE:CE2	16:P:198:ILE:CB	2.92	0.48
16:P:163:SER:O	16:P:167:LEU:HD13	2.14	0.48
16:P:219:ILE:CG1	16:P:220:SER:N	2.74	0.48
1:A:360:LEU:HG	2:B:1184:TYR:HE1	1.78	0.48
1:A:370:PRO:HB2	1:A:377:VAL:HG12	1.95	0.48
2:B:186:GLU:C	2:B:188:ASP:H	2.17	0.48
2:B:492:ASN:OD1	2:B:493:PHE:N	2.46	0.48
2:B:572:PRO:HD2	14:N:57:LYS:NZ	2.27	0.48
3:C:261:GLY:HA2	3:C:264:GLU:O	2.14	0.48
7:G:111:THR:HB	7:G:112:PRO:CD	2.43	0.48
11:K:68:GLU:OE1	11:K:68:GLU:HA	2.11	0.48
14:N:53:VAL:HG12	14:N:133:PHE:HD1	1.78	0.48
14:N:114:GLU:HG2	14:N:117:GLU:CB	2.44	0.48
14:N:177:ALA:C	14:N:179:ASP:H	2.16	0.48
15:O:351:ILE:CG1	17:Q:157:MET:CE	2.78	0.48
15:O:418:SER:OG	15:O:419:ARG:O	2.24	0.48
15:O:504:THR:O	15:O:542:ARG:HB2	2.13	0.48
16:P:58:ARG:HB3	16:P:58:ARG:NH1	2.28	0.48
16:P:113:LYS:HE3	16:P:117:ARG:HH22	1.79	0.48
16:P:116:ILE:HA	16:P:119:LEU:CG	2.43	0.48
16:P:183:LYS:CB	16:P:183:LYS:NZ	2.77	0.48
16:P:237:ILE:HG22	16:P:239:PHE:CA	2.44	0.48
16:P:337:SER:CA	16:P:448:LYS:CE	2.91	0.48
17:Q:8:LEU:H	17:Q:8:LEU:HD22	1.79	0.48
1:A:253:GLU:C	1:A:312:SER:HB2	2.33	0.48
1:A:368:ARG:HG2	1:A:383:ASN:OD1	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1242:ILE:HG12	1:A:1517:ARG:O	2.14	0.48
1:A:1260:LYS:HD3	1:A:1500:GLN:HG3	1.94	0.48
2:B:111:ASP:O	2:B:112:GLY:C	2.51	0.48
2:B:1100:GLN:HB3	2:B:1168:VAL:CG1	2.44	0.48
3:C:120:LEU:HD12	3:C:120:LEU:C	2.34	0.48
3:C:215:ASP:O	3:C:215:ASP:OD1	2.31	0.48
5:E:83:CYS:HB2	5:E:110:PHE:CE2	2.48	0.48
5:E:94:LYS:O	5:E:98:ILE:HG22	2.13	0.48
11:K:53:ALA:HB3	11:K:62:SER:HB2	1.95	0.48
12:L:31:CYS:CB	12:L:48:CYS:SG	3.00	0.48
14:N:93:THR:O	14:N:97:SER:OG	2.26	0.48
15:O:302:VAL:HA	15:O:320:ILE:HG12	1.92	0.48
15:O:352:PHE:HB2	15:O:355:GLU:N	2.29	0.48
15:O:391:THR:HG22	15:O:393:VAL:H	1.79	0.48
15:O:438:TRP:CH2	15:O:481:PHE:CD2	3.01	0.48
15:O:483:HIS:HE1	15:O:487:ASN:HA	1.79	0.48
16:P:10:CYS:O	16:P:13:ASP:O	2.32	0.48
16:P:101:LYS:NZ	16:P:152:LEU:N	2.61	0.48
17:Q:390:ASN:N	17:Q:390:ASN:ND2	2.60	0.48
1:A:63:SER:HA	2:B:1155:ASP:OD2	2.13	0.48
1:A:670:ILE:HG13	1:A:671:GLN:OE1	2.14	0.48
1:A:700:ILE:HG21	1:A:738:ASN:ND2	2.28	0.48
1:A:780:ILE:O	1:A:781:LEU:HD23	2.14	0.48
1:A:1322:ILE:HG23	1:A:1454:HIS:CE1	2.48	0.48
1:A:1440:ASN:O	1:A:1444:ARG:N	2.39	0.48
2:B:211:ARG:HG3	2:B:212:ASN:ND2	2.29	0.48
2:B:626:ILE:HA	2:B:642:LEU:HD23	1.95	0.48
2:B:817:ARG:HD3	19:S:26:DT:C4'	2.44	0.48
2:B:946:ASP:OD1	10:J:9:SER:OG	2.27	0.48
2:B:1128:CYS:O	2:B:1163:GLN:HB3	2.14	0.48
3:C:228:ARG:NH2	14:N:172:ALA:HB1	2.29	0.48
5:E:42:PHE:HZ	5:E:58:MET:HE1	1.79	0.48
5:E:86:PRO:O	5:E:114:ASN:N	2.44	0.48
5:E:153:HIS:CB	5:E:188:LEU:HD11	2.44	0.48
7:G:126:GLN:HG3	7:G:126:GLN:O	2.14	0.48
13:M:60:LEU:HG	13:M:102:SER:HB3	1.93	0.48
15:O:214:LEU:CG	15:O:236:ILE:HG21	2.23	0.48
15:O:440:HIS:CG	15:O:479:HIS:CD2	3.01	0.48
15:O:455:LYS:HA	15:O:464:LEU:HD23	1.95	0.48
15:O:611:ILE:HG23	15:O:731:LEU:HD23	1.91	0.48
16:P:93:LYS:HZ3	16:P:94:LYS:HB2	1.79	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:144:ILE:CA	16:P:147:GLN:NE2	2.77	0.48
16:P:204:ARG:NH2	19:S:15:DA:OP2	2.46	0.48
17:Q:137:SER:O	17:Q:296:PRO:CG	2.54	0.48
2:B:373:MET:O	2:B:377:MET:HG3	2.14	0.48
2:B:427:GLN:HG2	2:B:449:VAL:HG13	1.95	0.48
2:B:438:ILE:HD11	2:B:442:ASP:HB3	1.96	0.48
2:B:792:SER:OG	2:B:933:THR:OG1	2.26	0.48
2:B:1000:LEU:HD11	2:B:1005:TYR:HB2	1.95	0.48
4:D:27:LEU:O	4:D:29:GLN:NE2	2.45	0.48
7:G:134:GLU:HG2	7:G:230:ARG:HB2	1.95	0.48
7:G:140:GLN:HE22	7:G:225:ILE:HG13	1.78	0.48
15:O:205:TYR:O	15:O:214:LEU:HA	2.14	0.48
15:O:370:GLN:O	15:O:385:PHE:CE1	2.67	0.48
15:O:389:TRP:CE3	17:Q:148:ASN:OD1	2.55	0.48
15:O:391:THR:CG2	17:Q:144:VAL:HG23	2.36	0.48
15:O:442:LEU:HD12	15:O:442:LEU:O	2.14	0.48
15:O:442:LEU:O	15:O:443:ASP:OD1	2.32	0.48
15:O:471:MET:C	15:O:504:THR:HG21	2.34	0.48
15:O:693:PHE:CD1	15:O:693:PHE:C	2.87	0.48
16:P:119:LEU:CG	16:P:165:LEU:HD11	2.43	0.48
16:P:201:LYS:CG	16:P:202:SER:N	2.77	0.48
16:P:222:PHE:CZ	17:Q:206:ARG:HG3	2.49	0.48
16:P:263:PRO:HG2	16:P:266:PHE:H	1.78	0.48
16:P:294:HIS:O	16:P:295:THR:C	2.51	0.48
16:P:366:TYR:OH	17:Q:218:ASP:CB	2.57	0.48
16:P:474:GLU:OE2	16:P:478:ARG:CG	2.60	0.48
1:A:84:PRO:HA	1:A:358:ASP:HA	1.96	0.47
1:A:214:ASP:HB2	1:A:1605:THR:HG21	1.95	0.47
1:A:336:GLN:NE2	1:A:344:ASN:HD22	2.12	0.47
1:A:708:THR:HG21	1:A:742:PRO:HD2	1.96	0.47
1:A:720:PHE:HB2	8:H:96:VAL:CG1	2.44	0.47
1:A:1322:ILE:HG23	1:A:1454:HIS:NE2	2.28	0.47
2:B:816:ASN:HB2	2:B:819:ASP:CG	2.34	0.47
2:B:1174:THR:O	2:B:1177:ALA:HB3	2.13	0.47
3:C:257:GLY:O	3:C:266:TYR:O	2.32	0.47
5:E:58:MET:CB	5:E:82:PHE:HD2	2.27	0.47
5:E:64:PRO:HG3	5:E:75:MET:HG2	1.96	0.47
7:G:37:CYS:HB3	7:G:126:GLN:O	2.13	0.47
7:G:72:LYS:N	7:G:80:VAL:HG13	2.29	0.47
14:N:90:MET:O	14:N:137:PHE:HA	2.14	0.47
15:O:217:ALA:HB3	15:O:229:ARG:HH11	1.77	0.47

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	2.27	0.47
15:O:669:PHE:CE1	15:O:738:LYS:CD	2.96	0.47
15:O:702:LEU:CD2	16:P:123:MET:SD	2.99	0.47
16:P:85:GLN:HE21	16:P:89:HIS:HE1	1.61	0.47
16:P:151:GLU:C	16:P:152:LEU:HD22	2.33	0.47
16:P:188:ALA:HB1	16:P:193:PHE:CZ	2.49	0.47
17:Q:24:ILE:O	17:Q:28:SER:HB3	2.11	0.47
17:Q:362:ALA:HB1	17:Q:363:GLU:OE1	2.13	0.47
20:T:19:DC:C3'	20:T:20:DA:H5"	2.44	0.47
1:A:39:ASP:HB2	1:A:45:VAL:HA	1.95	0.47
1:A:1018:TYR:HD2	20:T:14:DT:OP1	1.88	0.47
1:A:1136:VAL:HG12	1:A:1174:TYR:CE2	2.50	0.47
2:B:99:VAL:HG23	2:B:421:LEU:HD11	1.96	0.47
2:B:555:GLN:NE2	2:B:589:ASP:OD2	2.47	0.47
2:B:626:ILE:HG23	2:B:642:LEU:CD2	2.44	0.47
2:B:785:ASP:O	2:B:925:GLY:HA2	2.14	0.47
2:B:938:PHE:CE1	2:B:1014:TYR:CD2	3.02	0.47
2:B:1102:SER:HB3	2:B:1113:THR:HG21	1.97	0.47
2:B:1107:CYS:CB	2:B:1130:ARG:HH21	2.27	0.47
5:E:93:MET:CE	5:E:132:ILE:HG21	2.45	0.47
13:M:54:HIS:HD2	13:M:63:GLU:CG	2.22	0.47
15:O:214:LEU:HD12	15:O:238:LEU:CD1	2.43	0.47
15:O:382:GLU:O	15:O:383:ILE:HG13	2.15	0.47
15:O:506:THR:HG21	15:O:540:LYS:HG2	1.95	0.47
15:O:700:LEU:CD2	15:O:709:PRO:HG2	2.15	0.47
16:P:169:SER:OG	16:P:175:PRO:HD3	2.13	0.47
16:P:198:ILE:C	16:P:199:LEU:HG	2.35	0.47
16:P:299:SER:O	16:P:301:HIS:N	2.45	0.47
17:Q:376:ALA:HB2	17:Q:407:HIS:CE1	2.49	0.47
1:A:111:LYS:HG2	1:A:234:ASP:OD2	2.13	0.47
1:A:488:PRO:HD2	2:B:781:TYR:CE2	2.50	0.47
1:A:585:ASP:O	1:A:605:VAL:HG23	2.14	0.47
2:B:73:ILE:HB	2:B:425:ILE:CD1	2.45	0.47
2:B:202:LEU:HD22	2:B:500:PHE:CE1	2.49	0.47
2:B:221:SER:O	2:B:224:ASN:N	2.47	0.47
2:B:1025:ASP:OD1	3:C:277:ARG:NH1	2.47	0.47
5:E:32:GLN:O	5:E:36:GLU:N	2.27	0.47
6:F:124:GLU:HG2	6:F:130:ILE:N	2.30	0.47
7:G:169:VAL:HG21	7:G:216:HIS:CD2	2.49	0.47
13:M:53:LEU:O	13:M:64:GLY:N	2.40	0.47
15:O:264:ILE:CG2	15:O:265:THR:N	2.76	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:318:ILE:HD13	15:O:320:ILE:CD1	2.44	0.47
15:O:469:TYR:CD2	15:O:508:ILE:HD12	2.49	0.47
15:O:604:ILE:HG23	15:O:732:LEU:HD22	1.96	0.47
15:O:656:HIS:HB2	15:O:747:LEU:N	2.28	0.47
16:P:201:LYS:O	16:P:204:ARG:HB3	2.15	0.47
16:P:226:LEU:CD1	16:P:226:LEU:N	2.73	0.47
16:P:334:LEU:HD23	16:P:449:GLN:OE1	2.14	0.47
1:A:507:TYR:OH	1:A:641:GLU:OE2	2.31	0.47
1:A:543:LEU:CD2	16:P:26:ARG:CZ	2.93	0.47
1:A:952:LEU:HD21	1:A:1000:MET:HB3	1.96	0.47
1:A:989:GLY:CA	2:B:709:PHE:CE1	2.97	0.47
1:A:1000:MET:HG2	2:B:520:LEU:HD23	1.95	0.47
1:A:1292:ILE:HD12	1:A:1472:PHE:HE2	1.80	0.47
2:B:37:LEU:HD12	2:B:37:LEU:N	2.30	0.47
2:B:117:VAL:CG2	17:Q:276:GLN:HB3	2.44	0.47
6:F:72:LYS:NZ	6:F:140:ASP:O	2.46	0.47
9:I:38:PRO:O	9:I:40:SER:CA	2.58	0.47
10:J:31:ASP:OD1	10:J:34:THR:OG1	2.30	0.47
10:J:32:GLU:CD	10:J:32:GLU:H	2.17	0.47
14:N:80:MET:O	14:N:87:TYR:HB2	2.14	0.47
15:O:366:PHE:CD1	15:O:373:LEU:HD11	2.50	0.47
15:O:577:LEU:HD11	16:P:499:LYS:CB	2.44	0.47
15:O:613:HIS:NE2	15:O:619:GLU:HB2	2.29	0.47
16:P:233:THR:HG22	16:P:237:ILE:HD12	1.96	0.47
16:P:262:LEU:HB3	16:P:446:TYR:CE1	2.34	0.47
16:P:363:SER:O	16:P:366:TYR:CA	2.60	0.47
1:A:30:LYS:HG2	1:A:31:GLN:O	2.14	0.47
1:A:423:LEU:O	1:A:423:LEU:HD13	2.15	0.47
1:A:572:THR:HG22	7:G:53:TYR:CE2	2.40	0.47
1:A:1176:ARG:NH1	6:F:84:TYR:CD2	2.82	0.47
2:B:451:MET:HG2	2:B:451:MET:O	2.14	0.47
2:B:505:ARG:CG	2:B:509:PHE:HD2	2.20	0.47
3:C:260:GLU:HG2	3:C:262:SER:OG	2.15	0.47
12:L:41:SER:C	12:L:43:THR:H	2.18	0.47
14:N:52:GLN:HB3	14:N:134:ASP:HB2	1.96	0.47
15:O:585:GLU:CD	15:O:588:SER:HB2	2.35	0.47
16:P:108:PHE:HE1	16:P:156:LEU:CD1	2.26	0.47
16:P:157:HIS:HB2	20:T:45:DC:O3'	2.14	0.47
16:P:158:MET:C	16:P:192:TYR:CE1	2.87	0.47
16:P:198:ILE:CA	16:P:200:PRO:HD3	2.39	0.47
16:P:386:LEU:C	16:P:388:THR:N	2.61	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:104:PHE:HE1	1:A:239:PHE:O	1.98	0.47
1:A:365:THR:HA	1:A:368:ARG:NH2	2.29	0.47
1:A:1162:ASN:OD1	1:A:1164:LYS:N	2.48	0.47
2:B:117:VAL:HG21	17:Q:276:GLN:HG2	1.86	0.47
2:B:888:ILE:HB	2:B:900:THR:HB	1.95	0.47
2:B:1128:CYS:N	2:B:1163:GLN:HB2	2.29	0.47
3:C:311:GLU:OE1	3:C:311:GLU:N	2.43	0.47
7:G:28:ILE:HB	7:G:31:LYS:HA	1.96	0.47
8:H:4:THR:O	8:H:5:LEU:HD23	2.14	0.47
9:I:2:SER:HG	9:I:9:PHE:HB2	1.80	0.47
15:O:55:UNK:O	15:O:552:LEU:HD22	2.15	0.47
15:O:294:PHE:CE2	15:O:300:LEU:CB	2.96	0.47
15:O:357:LEU:HG	17:Q:191:ILE:HB	1.96	0.47
15:O:378:SER:O	15:O:397:LYS:HG2	2.15	0.47
15:O:391:THR:HG22	15:O:393:VAL:HG13	1.97	0.47
15:O:461:HIS:CG	15:O:484:ARG:HG2	2.50	0.47
16:P:4:PHE:CD2	16:P:16:PRO:CB	2.96	0.47
16:P:222:PHE:O	16:P:224:GLY:N	2.47	0.47
16:P:258:MET:CG	16:P:262:LEU:HD22	2.39	0.47
17:Q:29:ARG:C	17:Q:32:ASP:CG	2.71	0.47
17:Q:31:PHE:O	17:Q:32:ASP:C	2.53	0.47
1:A:342:ARG:NH1	1:A:1629:ASN:O	2.46	0.47
1:A:452:PRO:O	1:A:453:ILE:C	2.51	0.47
1:A:861:VAL:HG21	1:A:892:LEU:HA	1.97	0.47
1:A:913:PRO:HA	1:A:926:GLN:HE22	1.80	0.47
1:A:989:GLY:CA	2:B:709:PHE:HE1	2.27	0.47
1:A:1163:GLU:O	1:A:1167:ARG:HB3	2.15	0.47
1:A:1240:LEU:CD2	1:A:1541:ILE:HG12	2.45	0.47
1:A:1260:LYS:HA	1:A:1499:ARG:O	2.15	0.47
1:A:1559:ARG:NH1	1:A:1583:ASP:OD1	2.47	0.47
2:B:33:SER:OG	2:B:177:PRO:HG3	2.14	0.47
2:B:108:MET:HE1	2:B:120:LYS:HG2	1.96	0.47
2:B:123:PRO:HG2	2:B:172:LEU:CD1	2.44	0.47
2:B:561:ILE:HA	2:B:564:ILE:HG22	1.96	0.47
2:B:572:PRO:HB2	2:B:575:HIS:CD2	2.50	0.47
2:B:626:ILE:HG23	2:B:642:LEU:HD21	1.96	0.47
2:B:817:ARG:HE	2:B:817:ARG:HB2	1.58	0.47
2:B:897:GLU:OE1	2:B:897:GLU:N	2.36	0.47
2:B:909:ARG:NH2	2:B:1042:ASP:OD2	2.47	0.47
2:B:1151:ILE:CG2	2:B:1159:TRP:HB3	2.44	0.47
3:C:85:PHE:HE2	3:C:97:LEU:HD23	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:174:ARG:O	3:C:177:THR:N	2.48	0.47
5:E:30:ILE:HA	5:E:34:GLU:OE1	2.14	0.47
5:E:138:ALA:O	5:E:141:VAL:HG23	2.14	0.47
5:E:153:HIS:CE1	5:E:184:VAL:HG11	2.50	0.47
7:G:137:ILE:HA	7:G:147:LEU:CD2	2.35	0.47
7:G:217:TRP:HB2	7:G:225:ILE:HD11	1.97	0.47
8:H:5:LEU:HD11	8:H:61:SER:CA	2.45	0.47
8:H:12:VAL:HG11	8:H:50:ALA:O	2.15	0.47
9:I:27:ASN:HB2	9:I:36:ILE:HG23	1.96	0.47
14:N:74:PHE:HD2	14:N:78:THR:HA	1.79	0.47
15:O:201:GLU:HA	15:O:202:ILE:HD12	1.97	0.47
15:O:366:PHE:CG	15:O:373:LEU:HD11	2.50	0.47
15:O:382:GLU:CD	15:O:433:VAL:HG12	2.33	0.47
15:O:414:ILE:CD1	15:O:434:ARG:HE	2.27	0.47
15:O:438:TRP:HH2	15:O:491:SER:CB	2.20	0.47
15:O:663:LEU:HD11	15:O:742:TRP:CZ3	2.49	0.47
15:O:686:TYR:O	15:O:690:ASP:O	2.33	0.47
16:P:19:LEU:N	16:P:30:GLN:HG3	2.25	0.47
16:P:166:TYR:CE2	16:P:230:ILE:HD13	2.50	0.47
16:P:178:THR:CG2	16:P:179:CYS:N	2.78	0.47
16:P:246:GLU:O	16:P:247:ILE:O	2.32	0.47
16:P:282:ARG:HH11	16:P:282:ARG:CG	2.28	0.47
16:P:337:SER:OG	16:P:448:LYS:HD3	2.15	0.47
16:P:434:HIS:O	16:P:436:LEU:N	2.45	0.47
17:Q:158:THR:O	17:Q:158:THR:HG23	2.14	0.47
17:Q:247:ILE:HG23	17:Q:278:TYR:CE2	2.41	0.47
1:A:1296:PHE:CD2	1:A:1469:TRP:HA	2.50	0.47
2:B:585:CYS:HB2	2:B:595:TRP:CZ3	2.50	0.47
2:B:1065:ARG:NH2	20:T:22:DG:OP2	2.42	0.47
2:B:1100:GLN:HB3	2:B:1168:VAL:HG12	1.95	0.47
5:E:37:LEU:CD1	5:E:41:ASP:HB3	2.37	0.47
6:F:128:LYS:HD3	6:F:149:GLU:CA	2.40	0.47
7:G:168:PHE:CD1	7:G:217:TRP:CD1	2.95	0.47
11:K:103:ILE:HG23	11:K:103:ILE:O	2.15	0.47
13:M:53:LEU:N	13:M:64:GLY:O	2.40	0.47
15:O:188:GLN:O	15:O:196:TYR:HE1	1.98	0.47
15:O:326:ILE:H	15:O:344:ILE:CG1	2.28	0.47
15:O:395:GLN:NE2	15:O:397:LYS:CA	2.77	0.47
15:O:696:PHE:CB	15:O:711:LEU:HD12	1.96	0.47
15:O:707:ASP:C	15:O:709:PRO:CD	2.83	0.47
16:P:19:LEU:O	16:P:27:ARG:HD2	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:58:ARG:NH1	16:P:58:ARG:CB	2.78	0.47
16:P:237:ILE:CG2	16:P:239:PHE:HB2	2.45	0.47
16:P:246:GLU:OE1	16:P:246:GLU:N	2.48	0.47
16:P:375:LEU:HD23	16:P:375:LEU:C	2.34	0.47
1:A:54:LEU:HB2	1:A:365:THR:OG1	2.14	0.47
1:A:529:LYS:HG2	1:A:530:TRP:N	2.30	0.47
1:A:855:ARG:HG3	1:A:856:GLU:N	2.29	0.47
1:A:1045:LEU:HD23	1:A:1045:LEU:C	2.35	0.47
2:B:817:ARG:CG	19:S:26:DT:C5'	2.36	0.47
2:B:1107:CYS:HB2	2:B:1130:ARG:CZ	2.44	0.47
4:D:16:LEU:HD12	4:D:16:LEU:C	2.35	0.47
5:E:202:SER:OG	5:E:204:THR:HG22	2.15	0.47
8:H:95:TYR:HB3	8:H:144:ILE:HB	1.96	0.47
9:I:36:ILE:HB	9:I:39:LYS:HD2	1.93	0.47
14:N:52:GLN:HG2	14:N:134:ASP:CB	2.45	0.47
15:O:302:VAL:O	15:O:319:ASP:O	2.33	0.47
15:O:478:MET:CE	15:O:497:VAL:HG13	2.45	0.47
15:O:585:GLU:HG3	15:O:589:ILE:HG13	1.97	0.47
16:P:118:TRP:CZ2	16:P:189:LYS:HB3	2.42	0.47
16:P:211:TYR:CD2	16:P:212:VAL:HG23	2.50	0.47
16:P:357:TYR:CE2	17:Q:203:SER:HA	2.50	0.47
17:Q:245:VAL:HG21	17:Q:250:LEU:HD21	1.97	0.47
1:A:105:CYS:HG	21:A:1701:ZN:ZN	1.19	0.47
1:A:393:SER:HB3	1:A:397:ARG:NH1	2.30	0.47
1:A:690:GLU:HB3	11:K:77:ARG:HH22	1.80	0.47
2:B:50:ASN:HB3	2:B:54:GLU:OE2	2.15	0.47
2:B:129:ARG:HD3	2:B:890:ASP:CG	2.35	0.47
2:B:446:MET:HG2	2:B:450:LEU:CD1	2.43	0.47
2:B:513:LYS:CG	2:B:514:THR:N	2.77	0.47
3:C:120:LEU:HB2	3:C:121:PRO:HD2	1.97	0.47
6:F:134:ILE:N	6:F:146:TRP:O	2.45	0.47
15:O:175:ASP:HB3	17:Q:195:LEU:HB3	1.97	0.47
15:O:183:ASP:OD2	15:O:246:LYS:HA	2.15	0.47
15:O:202:ILE:CG2	15:O:216:ILE:CG2	2.91	0.47
15:O:314:GLN:NE2	15:O:329:ILE:HD12	2.30	0.47
15:O:351:ILE:C	15:O:352:PHE:CD1	2.89	0.47
15:O:434:ARG:N	17:Q:144:VAL:HG11	2.26	0.47
15:O:692:THR:O	15:O:693:PHE:HB3	2.15	0.47
15:O:722:TRP:CE3	16:P:264:PRO:HA	2.50	0.47
16:P:29:CYS:N	16:P:36:GLU:OE2	2.47	0.47
16:P:226:LEU:H	16:P:226:LEU:HD22	1.80	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:315:ASN:OD1	16:P:315:ASN:C	2.54	0.47
16:P:496:GLU:OE2	16:P:499:LYS:CD	2.63	0.47
17:Q:295:PRO:C	17:Q:297:PHE:N	2.69	0.47
1:A:58:LEU:CB	16:P:63:THR:CG2	2.77	0.46
1:A:402:ASP:HA	1:A:405:LYS:HB3	1.97	0.46
1:A:437:PHE:CE2	2:B:1184:TYR:CZ	3.04	0.46
1:A:565:SER:HB3	1:A:571:HIS:HA	1.97	0.46
1:A:611:GLU:HA	2:B:913:ILE:CD1	2.45	0.46
1:A:722:PRO:HB2	8:H:46:LEU:CD2	2.33	0.46
1:A:847:LEU:HD21	1:A:946:LEU:HD22	1.96	0.46
1:A:893:ASP:OD1	1:A:956:ARG:HB3	2.15	0.46
1:A:1014:SER:CA	20:T:15:DT:H5"	2.44	0.46
1:A:1510:PRO:HG3	1:A:1520:VAL:HG23	1.96	0.46
2:B:91:LEU:CD1	2:B:91:LEU:N	2.76	0.46
2:B:290:ASP:OD2	13:M:28:LYS:CG	2.63	0.46
2:B:1103:VAL:HA	2:B:1110:ILE:HA	1.97	0.46
5:E:72:PHE:CE1	5:E:157:SER:HA	2.50	0.46
5:E:116:ILE:HD11	5:E:120:ALA:HB1	1.96	0.46
5:E:170:LEU:HD12	5:E:170:LEU:C	2.36	0.46
14:N:78:THR:CB	14:N:89:ILE:HB	2.45	0.46
15:O:181:ARG:O	15:O:182:LEU:CG	2.56	0.46
15:O:440:HIS:HE1	15:O:481:PHE:HE1	1.52	0.46
15:O:511:ILE:HD13	15:O:536:ASP:OD1	2.15	0.46
16:P:171:HIS:HB2	16:P:243:PHE:CD2	2.50	0.46
17:Q:282:SER:HA	17:Q:302:ARG:CG	2.39	0.46
17:Q:385:ASN:O	17:Q:389:ASN:C	2.53	0.46
1:A:245:LYS:HA	1:A:251:ILE:HA	1.97	0.46
1:A:246:ASP:CG	1:A:249:THR:H	2.19	0.46
1:A:1026:GLN:HE21	1:A:1603:MET:CE	2.28	0.46
1:A:1027:LEU:HA	1:A:1030:VAL:CG2	2.45	0.46
1:A:1288:ARG:HB3	1:A:1476:LEU:HB2	1.95	0.46
1:A:1459:LYS:O	1:A:1472:PHE:HA	2.16	0.46
2:B:903:ILE:HG23	2:B:903:ILE:O	2.15	0.46
5:E:86:PRO:O	5:E:114:ASN:HB3	2.14	0.46
5:E:90:VAL:HG22	5:E:123:LEU:HD11	1.97	0.46
6:F:84:TYR:CE2	6:F:152:ILE:HG21	2.50	0.46
7:G:72:LYS:C	7:G:80:VAL:HG13	2.36	0.46
7:G:145:ILE:HG13	7:G:217:TRP:CZ3	2.51	0.46
9:I:7:LEU:CB	9:I:16:LEU:HD11	2.41	0.46
13:M:36:THR:OG1	13:M:62:TYR:OH	2.25	0.46
13:M:75:GLN:NE2	14:N:64:ILE:HG12	2.31	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:114:GLU:HG2	14:N:117:GLU:HB3	1.97	0.46
15:O:16:UNK:CB	15:O:440:HIS:CB	2.93	0.46
15:O:347:LEU:CB	17:Q:151:PRO:O	2.63	0.46
15:O:508:ILE:HG12	15:O:539:VAL:CG1	2.36	0.46
16:P:103:LEU:HD12	16:P:104:PHE:CA	2.44	0.46
17:Q:242:ILE:O	17:Q:244:GLY:N	2.41	0.46
17:Q:381:ARG:HA	17:Q:384:VAL:HG21	0.52	0.46
1:A:6:PRO:HG2	4:D:15:THR:OG1	2.14	0.46
1:A:28:SER:O	2:B:1129:ARG:NH2	2.48	0.46
1:A:94:LEU:C	1:A:94:LEU:HD12	2.35	0.46
1:A:335:LEU:HA	1:A:338:VAL:CB	2.39	0.46
1:A:597:LYS:HE3	1:A:660:PRO:HG3	1.96	0.46
1:A:636:HIS:HE1	2:B:1069:ILE:CD1	2.28	0.46
1:A:1055:ILE:HD12	1:A:1063:MET:SD	2.55	0.46
1:A:1326:GLU:OE2	1:A:1456:PHE:N	2.43	0.46
1:A:1484:LEU:O	1:A:1488:ILE:HG12	2.14	0.46
2:B:531:VAL:HG23	2:B:701:ALA:HB2	1.96	0.46
2:B:678:PRO:HA	2:B:681:ILE:CD1	2.45	0.46
2:B:897:GLU:HB3	2:B:899:GLN:NE2	2.29	0.46
2:B:1061:LYS:HE3	16:P:45:GLU:CG	2.45	0.46
4:D:44:ILE:HD11	4:D:89:LEU:HG	1.96	0.46
7:G:138:PHE:HB3	7:G:146:GLY:C	2.36	0.46
7:G:144:HIS:HA	7:G:157:ILE:O	2.16	0.46
12:L:48:CYS:HB3	12:L:53:HIS:N	2.30	0.46
13:M:21:VAL:HG22	14:N:112:PRO:CD	2.45	0.46
15:O:310:TRP:O	15:O:311:ASP:HB2	2.13	0.46
15:O:354:PRO:CG	15:O:355:GLU:H	2.29	0.46
15:O:391:THR:CG2	15:O:392:GLU:N	2.78	0.46
15:O:611:ILE:CD1	15:O:731:LEU:CG	2.92	0.46
15:O:704:LEU:CD2	16:P:123:MET:HE1	2.46	0.46
16:P:95:LEU:HB2	16:P:99:GLU:OE2	2.15	0.46
16:P:104:PHE:CB	16:P:211:TYR:CD2	2.86	0.46
16:P:215:LEU:CD2	16:P:215:LEU:H	2.29	0.46
16:P:247:ILE:O	16:P:284:LEU:O	2.33	0.46
16:P:274:ILE:HG23	16:P:278:GLU:CD	2.35	0.46
16:P:385:PHE:CZ	17:Q:212:HIS:ND1	2.84	0.46
17:Q:140:ILE:HG22	17:Q:142:ARG:HD2	1.95	0.46
1:A:58:LEU:HD22	16:P:62:LEU:HA	1.96	0.46
1:A:378:HIS:C	16:P:56:ILE:HG22	2.35	0.46
1:A:381:SER:HB3	1:A:453:ILE:CB	2.36	0.46
1:A:1657:LEU:HD22	7:G:104:LEU:CD2	2.45	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:79:LEU:HB2	2:B:87:ASN:CB	2.19	0.46
2:B:656:LEU:HB3	14:N:148:ILE:HD13	1.96	0.46
2:B:715:ASN:O	2:B:718:GLN:HB3	2.15	0.46
2:B:720:GLN:O	2:B:724:GLN:HG2	2.14	0.46
2:B:857:PRO:HB3	2:B:871:ILE:HD12	1.96	0.46
2:B:957:ARG:HH11	2:B:957:ARG:HG3	1.80	0.46
2:B:1002:LYS:CE	14:N:166:LEU:HD12	2.45	0.46
2:B:1038:HIS:CE1	18:R:5:G:C5'	2.87	0.46
3:C:195:LYS:NZ	10:J:55:ASP:OD2	2.44	0.46
5:E:197:LYS:HG3	5:E:211:TYR:CE1	2.50	0.46
6:F:99:LEU:CD2	7:G:112:PRO:HD3	2.44	0.46
7:G:139:ILE:HG12	7:G:146:GLY:HA3	1.98	0.46
13:M:13:GLU:CG	13:M:87:SER:HB2	2.45	0.46
15:O:17:UNK:C	15:O:19:UNK:N	2.61	0.46
15:O:338:LYS:O	15:O:339:ARG:HB2	2.15	0.46
15:O:702:LEU:CG	16:P:125:PHE:CE2	2.64	0.46
16:P:280:ASP:C	16:P:281:ILE:HG22	2.36	0.46
16:P:355:VAL:HG12	17:Q:215:THR:OG1	2.15	0.46
1:A:19:LEU:HB2	2:B:1186:ASP:OD1	2.16	0.46
1:A:497:VAL:CG2	1:A:605:VAL:HG13	2.44	0.46
1:A:1028:GLU:HG3	1:A:1029:GLY:N	2.30	0.46
2:B:513:LYS:CE	19:S:42:DG:C4'	2.85	0.46
2:B:566:TYR:HD2	13:M:73:SER:CB	2.28	0.46
2:B:1014:TYR:CE1	2:B:1021:GLU:HB2	2.50	0.46
3:C:127:THR:H	3:C:130:ASN:ND2	2.13	0.46
4:D:31:VAL:HG23	4:D:36:VAL:CG2	2.46	0.46
6:F:146:TRP:HB2	6:F:151:LEU:HD11	1.96	0.46
8:H:105:GLU:O	8:H:112:ILE:HG13	2.14	0.46
15:O:274:ILE:CD1	15:O:284:VAL:CG1	2.94	0.46
15:O:301:GLN:O	15:O:320:ILE:CG2	2.64	0.46
15:O:303:VAL:HB	15:O:319:ASP:O	2.15	0.46
16:P:58:ARG:HH22	16:P:60:LEU:HA	1.80	0.46
16:P:103:LEU:CG	16:P:211:TYR:HE2	2.22	0.46
16:P:113:LYS:O	16:P:116:ILE:CD1	2.64	0.46
16:P:494:SER:O	16:P:497:GLN:N	2.48	0.46
17:Q:299:THR:CG2	17:Q:304:HIS:HE1	2.27	0.46
1:A:1215:VAL:HG12	1:A:1235:THR:HB	1.97	0.46
2:B:778:TYR:HD2	2:B:779:THR:HG23	1.79	0.46
2:B:817:ARG:H	19:S:26:DT:H5"	1.80	0.46
3:C:230:LEU:HB2	3:C:297:HIS:CD2	2.35	0.46
3:C:334:THR:HG21	11:K:44:ARG:HA	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:88:VAL:HB	5:E:116:ILE:HB	1.97	0.46
6:F:72:LYS:HD2	6:F:141:GLY:O	2.14	0.46
11:K:63:PHE:CD2	11:K:117:LEU:HD13	2.50	0.46
13:M:59:ARG:CB	13:M:60:LEU:HD12	2.41	0.46
13:M:60:LEU:HG	13:M:102:SER:HA	1.97	0.46
15:O:46:UNK:CB	15:O:491:SER:HB3	2.45	0.46
15:O:254:ILE:CG2	15:O:255:GLY:N	2.78	0.46
15:O:352:PHE:CB	15:O:355:GLU:H	2.29	0.46
15:O:390:GLN:CD	17:Q:151:PRO:CB	2.79	0.46
15:O:458:LYS:HD2	15:O:463:LEU:HD21	1.97	0.46
15:O:470:SER:OG	15:O:471:MET:N	2.49	0.46
15:O:475:ARG:HA	15:O:498:LEU:HA	1.97	0.46
15:O:713:ILE:CG2	15:O:717:LYS:CE	2.94	0.46
16:P:419:LEU:CB	17:Q:237:ALA:CB	2.78	0.46
16:P:484:ALA:O	16:P:488:LEU:CB	2.62	0.46
16:P:505:ILE:HD12	16:P:508:ALA:HB3	1.97	0.46
17:Q:153:ASN:O	17:Q:156:LYS:CE	2.63	0.46
1:A:36:THR:HG22	1:A:45:VAL:HB	1.98	0.46
1:A:820:TYR:CZ	1:A:824:THR:HG21	2.50	0.46
1:A:1163:GLU:O	1:A:1167:ARG:CB	2.64	0.46
1:A:1266:VAL:CG1	1:A:1498:ILE:HD11	2.45	0.46
2:B:518:ARG:NH1	2:B:537:SER:O	2.39	0.46
2:B:1084:THR:OG1	2:B:1087:LEU:HB2	2.16	0.46
3:C:146:ALA:HB2	3:C:155:GLU:HG2	1.97	0.46
3:C:163:TYR:HE1	3:C:192:LEU:HD13	1.80	0.46
9:I:7:LEU:HD23	9:I:16:LEU:CD2	2.45	0.46
11:K:43:ASP:OD2	11:K:46:LYS:HB2	2.15	0.46
15:O:316:ALA:HB1	15:O:340:LYS:HD3	1.96	0.46
15:O:317:ILE:HG22	15:O:363:ILE:CD1	2.46	0.46
15:O:599:LYS:NZ	16:P:275:GLU:OE2	2.39	0.46
15:O:657:SER:HB3	15:O:746:ARG:NH1	2.30	0.46
15:O:672:ILE:HD12	15:O:734:LYS:HZ3	1.69	0.46
15:O:757:GLN:O	15:O:760:ILE:HG22	2.11	0.46
16:P:9:ILE:CB	16:P:18:ARG:NH2	2.73	0.46
16:P:158:MET:CG	16:P:192:TYR:OH	2.63	0.46
16:P:213:SER:C	16:P:215:LEU:HD22	2.36	0.46
16:P:408:ILE:CG2	16:P:412:LYS:HE3	2.45	0.46
16:P:409:ALA:O	16:P:413:LEU:HG	2.16	0.46
16:P:490:ASP:HB3	16:P:491:PHE:CD1	2.51	0.46
17:Q:143:THR:O	17:Q:144:VAL:CG1	2.49	0.46
17:Q:362:ALA:C	17:Q:364:VAL:N	2.66	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:503:VAL:HG23	1:A:504:LYS:HG3	1.98	0.46
1:A:547:ILE:HG21	16:P:21:ARG:CG	2.45	0.46
1:A:771:PHE:CE2	1:A:793:ILE:HD13	2.51	0.46
1:A:883:LEU:HD23	1:A:884:ARG:NH1	2.31	0.46
1:A:920:PHE:CE1	1:A:930:LEU:HD23	2.50	0.46
1:A:997:PHE:O	1:A:1000:MET:HB2	2.16	0.46
1:A:1463:ASP:HB2	1:A:1469:TRP:CE2	2.51	0.46
2:B:21:ARG:CD	2:B:763:ASP:OD2	2.64	0.46
3:C:156:LEU:HD23	3:C:157:TYR:CZ	2.51	0.46
5:E:32:GLN:O	5:E:36:GLU:HB2	2.16	0.46
5:E:61:GLN:NE2	5:E:105:PHE:HE1	2.14	0.46
5:E:71:LYS:HG3	5:E:72:PHE:CD2	2.51	0.46
13:M:44:LYS:HG2	13:M:49:ASP:OD2	2.15	0.46
15:O:44:UNK:O	15:O:45:UNK:O	2.33	0.46
15:O:216:ILE:H	15:O:234:THR:HG1	1.52	0.46
15:O:270:GLN:HE21	15:O:289:SER:H	1.64	0.46
15:O:672:ILE:CD1	15:O:734:LYS:HE2	2.46	0.46
16:P:111:ILE:HG23	16:P:112:LEU:N	2.29	0.46
16:P:193:PHE:HB2	17:Q:208:TYR:CD2	2.50	0.46
16:P:399:SER:O	16:P:400:MET:C	2.54	0.46
1:A:460:LEU:HD12	1:A:466:LEU:HB3	1.98	0.46
1:A:461:GLU:HA	1:A:465:GLY:HA3	1.98	0.46
1:A:982:VAL:HG13	1:A:994:GLU:OE1	2.15	0.46
1:A:1097:TYR:HE2	1:A:1123:VAL:HA	1.80	0.46
3:C:54:PHE:HE2	3:C:56:LEU:HD11	1.79	0.46
3:C:230:LEU:CD1	3:C:271:ARG:HA	2.46	0.46
3:C:315:PHE:HB3	3:C:319:ARG:CZ	2.46	0.46
4:D:93:GLN:O	4:D:97:LYS:N	2.48	0.46
5:E:59:SER:OG	5:E:81:GLU:HA	2.16	0.46
5:E:93:MET:O	5:E:97:VAL:HG23	2.16	0.46
6:F:107:VAL:HG12	6:F:109:VAL:H	1.81	0.46
7:G:15:ARG:O	7:G:19:LYS:HB2	2.16	0.46
7:G:29:ASP:C	7:G:31:LYS:H	2.19	0.46
15:O:251:SER:HB3	15:O:411:LYS:HD3	1.98	0.46
15:O:319:ASP:HA	15:O:324:TRP:HB3	1.97	0.46
15:O:716:ASN:O	15:O:720:GLN:CD	2.54	0.46
15:O:746:ARG:NH2	16:P:171:HIS:CD2	2.84	0.46
16:P:105:LEU:HD23	16:P:109:GLN:CD	2.36	0.46
16:P:206:GLN:C	16:P:208:PRO:CD	2.85	0.46
16:P:402:MET:C	16:P:402:MET:SD	2.94	0.46
17:Q:133:LYS:HB3	17:Q:134:PRO:CD	2.46	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:207:ASN:C	17:Q:210:THR:HG1	2.15	0.46
17:Q:317:LEU:HD23	17:Q:367:ILE:CG1	2.46	0.46
17:Q:397:ARG:CZ	17:Q:397:ARG:HB2	2.45	0.46
1:A:57:PHE:CD2	1:A:58:LEU:HD23	2.50	0.46
1:A:864:LEU:HD11	1:A:878:ARG:CD	2.39	0.46
2:B:166:GLN:OE1	2:B:166:GLN:N	2.49	0.46
2:B:290:ASP:OD2	13:M:28:LYS:HG2	2.15	0.46
2:B:792:SER:CB	2:B:933:THR:OG1	2.64	0.46
2:B:906:ARG:HH12	3:C:94:ASP:H	1.64	0.46
2:B:1014:TYR:HD1	2:B:1021:GLU:CA	2.28	0.46
7:G:110:ASP:OD1	7:G:111:THR:HG23	2.16	0.46
7:G:219:ASP:CG	7:G:220:SER:N	2.69	0.46
9:I:26:SER:O	9:I:37:TYR:OH	2.28	0.46
14:N:25:ILE:H	14:N:25:ILE:HG12	1.29	0.46
15:O:275:GLU:HB3	15:O:285:MET:C	2.21	0.46
15:O:381:ILE:CG2	15:O:382:GLU:N	2.79	0.46
15:O:571:HIS:CB	15:O:574:TRP:HD1	2.28	0.46
15:O:616:SER:HA	15:O:619:GLU:N	2.31	0.46
15:O:630:LEU:HB2	15:O:662:LEU:HG	1.56	0.46
16:P:103:LEU:HA	16:P:106:LYS:HB2	1.97	0.46
16:P:197:GLU:C	16:P:197:GLU:OE1	2.55	0.46
16:P:222:PHE:C	16:P:223:ASN:CG	2.71	0.46
16:P:239:PHE:HE1	16:P:246:GLU:CB	2.28	0.46
16:P:342:THR:O	16:P:343:THR:CG2	2.64	0.46
17:Q:136:LYS:HD3	17:Q:303:THR:HG23	1.98	0.46
17:Q:136:LYS:HD3	17:Q:304:HIS:CA	2.34	0.46
1:A:535:GLN:HB2	1:A:578:TYR:CD2	2.42	0.45
1:A:658:LEU:HD23	1:A:665:PRO:HA	1.98	0.45
1:A:755:ILE:HD12	1:A:782:ASP:OD2	2.16	0.45
1:A:1657:LEU:HD22	7:G:104:LEU:HD23	1.98	0.45
2:B:135:GLY:O	2:B:161:LEU:N	2.45	0.45
2:B:167:SER:O	2:B:173:ASN:HB3	2.16	0.45
2:B:259:THR:CG2	2:B:270:LEU:HD21	2.47	0.45
2:B:459:SER:O	2:B:463:TYR:CG	2.69	0.45
2:B:570:VAL:HG12	2:B:594:GLY:HA3	1.98	0.45
2:B:817:ARG:CD	19:S:25:DT:H1'	2.38	0.45
2:B:1127:CYS:HB3	2:B:1163:GLN:CD	2.36	0.45
3:C:146:ALA:HB1	3:C:155:GLU:HG2	1.98	0.45
10:J:56:LEU:HD11	10:J:59:LYS:HD3	1.98	0.45
11:K:115:ASP:O	11:K:119:LYS:HG2	2.16	0.45
14:N:38:PHE:O	14:N:40:LEU:N	2.44	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:55:LEU:HB3	14:N:136:VAL:HG13	1.98	0.45
14:N:145:ILE:HG13	14:N:145:ILE:O	2.16	0.45
15:O:367:SER:O	15:O:368:HIS:CB	2.60	0.45
15:O:389:TRP:CZ3	17:Q:147:GLN:O	2.69	0.45
16:P:93:LYS:HZ3	16:P:94:LYS:CB	2.28	0.45
16:P:134:LYS:O	16:P:138:LEU:HG	2.16	0.45
16:P:208:PRO:HB3	16:P:212:VAL:HG23	1.86	0.45
16:P:225:GLN:HE22	20:T:46:DT:H5"	1.79	0.45
16:P:284:LEU:HD12	16:P:284:LEU:C	2.37	0.45
16:P:356:VAL:HB	17:Q:206:ARG:HH21	1.81	0.45
16:P:432:SER:OG	16:P:433:THR:N	2.46	0.45
1:A:58:LEU:HD11	1:A:60:ASN:HD21	0.63	0.45
2:B:301:PHE:CE2	2:B:305:ARG:CZ	2.99	0.45
4:D:28:PRO:HB2	7:G:39:VAL:HG21	1.98	0.45
5:E:129:PRO:O	5:E:130:ALA:CB	2.63	0.45
5:E:169:ARG:HB3	6:F:140:ASP:CB	2.46	0.45
9:I:27:ASN:HB3	9:I:37:TYR:HE2	1.25	0.45
15:O:183:ASP:OD2	15:O:246:LYS:CA	2.64	0.45
15:O:205:TYR:CG	15:O:215:ASN:HB2	2.34	0.45
15:O:635:ASN:CA	15:O:638:LEU:HB2	2.44	0.45
16:P:6:ARG:CB	16:P:71:GLN:HE22	2.29	0.45
16:P:186:CYS:O	16:P:380:TRP:NE1	2.49	0.45
16:P:404:ILE:O	16:P:408:ILE:HD12	2.16	0.45
16:P:490:ASP:C	16:P:491:PHE:HD1	2.16	0.45
17:Q:248:LYS:HB3	17:Q:249:SER:H	1.46	0.45
17:Q:353:VAL:HA	17:Q:358:PHE:HD2	1.63	0.45
17:Q:354:LEU:HG	17:Q:359:MET:HB2	1.98	0.45
1:A:34:ASN:ND2	1:A:45:VAL:HG21	2.32	0.45
1:A:1048:PHE:CE2	5:E:211:TYR:HB2	2.52	0.45
1:A:1102:LEU:HB2	1:A:1105:ARG:NH2	2.23	0.45
2:B:155:VAL:HG21	17:Q:359:MET:HG3	1.97	0.45
2:B:390:SER:OG	2:B:634:ARG:O	2.17	0.45
2:B:531:VAL:O	2:B:716:MET:HG2	2.17	0.45
2:B:1061:LYS:CE	16:P:45:GLU:OE1	2.65	0.45
2:B:1061:LYS:CD	16:P:45:GLU:HB2	2.46	0.45
3:C:254:GLY:O	3:C:268:LYS:HE3	2.16	0.45
9:I:7:LEU:N	9:I:7:LEU:HD12	2.31	0.45
15:O:319:ASP:HB2	15:O:363:ILE:HG21	1.98	0.45
15:O:473:HIS:O	15:O:473:HIS:ND1	2.50	0.45
15:O:529:GLU:O	15:O:531:PHE:HD2	1.99	0.45
16:P:198:ILE:O	16:P:199:LEU:CG	2.64	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:282:ARG:HB3	16:P:282:ARG:NH1	2.32	0.45
16:P:405:ASP:O	16:P:408:ILE:HB	2.16	0.45
16:P:493:ILE:O	16:P:498:LEU:HB2	2.16	0.45
17:Q:207:ASN:CB	17:Q:210:THR:OG1	2.65	0.45
17:Q:217:THR:O	17:Q:221:HIS:HD2	1.99	0.45
1:A:500:VAL:HG13	1:A:501:PHE:N	2.31	0.45
1:A:514:TYR:HB3	6:F:111:LEU:CD2	2.46	0.45
1:A:535:GLN:HE22	16:P:26:ARG:CZ	2.30	0.45
1:A:886:ASN:OD1	1:A:955:ARG:NH2	2.49	0.45
1:A:1003:ARG:HH12	2:B:520:LEU:HD13	1.77	0.45
1:A:1013:THR:HA	1:A:1016:SER:OG	2.17	0.45
1:A:1266:VAL:HG11	1:A:1498:ILE:CD1	2.47	0.45
1:A:1462:PHE:CZ	1:A:1467:GLY:HA2	2.51	0.45
1:A:1483:LEU:HD11	1:A:1485:MET:HB2	1.97	0.45
2:B:107:PRO:HG2	2:B:133:TYR:CZ	2.52	0.45
2:B:129:ARG:O	2:B:131:THR:HG23	2.16	0.45
2:B:136:LYS:HD2	2:B:138:LEU:HD11	1.98	0.45
2:B:423:ASN:HB3	2:B:453:VAL:HG23	1.99	0.45
2:B:940:GLU:HG2	2:B:1014:TYR:CE2	2.51	0.45
2:B:1061:LYS:CA	16:P:45:GLU:HA	2.45	0.45
2:B:1167:PHE:CG	2:B:1168:VAL:N	2.85	0.45
3:C:196:LEU:HD23	3:C:196:LEU:HA	1.62	0.45
7:G:140:GLN:O	7:G:214:LEU:HG	2.16	0.45
8:H:115:TYR:CZ	8:H:124:ARG:HG3	2.51	0.45
10:J:23:ASN:OD1	10:J:27:GLU:HB2	2.16	0.45
13:M:38:PHE:CE2	14:N:110:LEU:HD22	2.51	0.45
15:O:263:ILE:CG2	15:O:264:ILE:N	2.78	0.45
15:O:289:SER:O	15:O:290:GLU:HB3	2.17	0.45
15:O:354:PRO:HG2	15:O:355:GLU:H	1.81	0.45
15:O:428:GLU:HG3	15:O:435:ARG:N	2.31	0.45
15:O:650:LEU:O	15:O:651:SER:HB3	2.16	0.45
16:P:330:TRP:CZ3	16:P:331:ILE:HD13	2.50	0.45
16:P:469:PRO:HG2	16:P:470:PRO:HD2	1.98	0.45
17:Q:125:ARG:NH1	19:S:19:DG:C3'	2.76	0.45
17:Q:362:ALA:HB1	17:Q:363:GLU:H	1.49	0.45
1:A:262:THR:O	1:A:266:VAL:HG22	2.16	0.45
1:A:1051:GLY:HA3	1:A:1580:ARG:HG2	1.98	0.45
2:B:98:SER:O	2:B:141:LEU:HD12	2.16	0.45
2:B:246:GLN:NE2	2:B:263:SER:O	2.46	0.45
2:B:571:ALA:HA	14:N:57:LYS:NZ	2.28	0.45
2:B:655:TYR:CD1	2:B:657:PRO:HD2	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:675:ALA:O	2:B:689:VAL:HA	2.17	0.45
2:B:889:GLY:O	2:B:892:SER:OG	2.14	0.45
3:C:151:THR:CB	3:C:155:GLU:OE2	2.62	0.45
3:C:188:ASP:OD2	10:J:13:VAL:HG11	2.16	0.45
3:C:230:LEU:CB	3:C:297:HIS:HD2	2.22	0.45
5:E:165:LEU:HD11	5:E:172:GLU:HG2	1.98	0.45
8:H:30:SER:HB2	8:H:36:CYS:HG	1.80	0.45
11:K:77:ARG:HD2	11:K:91:TYR:CD1	2.52	0.45
13:M:13:GLU:CB	13:M:87:SER:HB2	2.46	0.45
13:M:81:PHE:CE1	13:M:86:LYS:HA	2.51	0.45
15:O:325:SER:HA	15:O:344:ILE:HD11	1.97	0.45
15:O:390:GLN:CD	17:Q:151:PRO:HB2	2.19	0.45
15:O:499:GLU:OE2	15:O:500:ILE:HD12	2.16	0.45
17:Q:358:PHE:CE2	17:Q:365:TRP:CH2	3.02	0.45
1:A:263:ASN:CA	1:A:266:VAL:HG22	2.47	0.45
1:A:402:ASP:OD2	1:A:419:ILE:HG21	2.16	0.45
2:B:73:ILE:O	2:B:95:LEU:HB3	2.17	0.45
2:B:129:ARG:HG2	2:B:131:THR:HG21	1.98	0.45
2:B:372:ARG:HD3	2:B:573:ALA:HB1	1.98	0.45
2:B:627:GLY:O	2:B:640:LEU:HA	2.15	0.45
2:B:740:LYS:HD3	2:B:803:MET:CE	2.46	0.45
2:B:823:GLN:HE21	2:B:863:ASP:HB2	1.82	0.45
2:B:1103:VAL:HB	2:B:1110:ILE:CG2	2.34	0.45
5:E:136:ASN:HB3	5:E:139:ALA:CB	2.41	0.45
7:G:133:LEU:O	7:G:231:PHE:N	2.38	0.45
8:H:12:VAL:O	8:H:52:GLN:N	2.50	0.45
13:M:22:ALA:HA	13:M:93:ALA:HB1	1.99	0.45
13:M:81:PHE:HB2	13:M:88:ILE:CG2	2.47	0.45
15:O:314:GLN:O	15:O:328:ARG:CA	2.37	0.45
15:O:483:HIS:ND1	15:O:489:PHE:CE1	2.85	0.45
15:O:650:LEU:HG	15:O:756:ILE:CG2	2.44	0.45
16:P:93:LYS:O	16:P:94:LYS:C	2.54	0.45
16:P:281:ILE:O	16:P:281:ILE:CG1	2.63	0.45
16:P:295:THR:O	16:P:295:THR:OG1	2.35	0.45
17:Q:149:LYS:CD	17:Q:149:LYS:C	2.85	0.45
17:Q:293:ILE:O	17:Q:293:ILE:HG22	2.16	0.45
1:A:63:SER:C	2:B:1155:ASP:HB3	2.37	0.45
1:A:99:ARG:O	1:A:109:ARG:NH2	2.49	0.45
1:A:377:VAL:CG2	16:P:58:ARG:H	2.30	0.45
1:A:594:THR:CG2	2:B:1075:GLU:HG3	2.45	0.45
1:A:1254:PHE:HA	1:A:1257:SER:HB2	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:166:GLN:NE2	2:B:189:GLU:O	2.49	0.45
2:B:249:VAL:CB	2:B:261:ARG:HB2	2.39	0.45
2:B:282:HIS:CD2	13:M:101:VAL:HG12	2.52	0.45
2:B:791:LYS:HD3	2:B:932:PRO:HA	1.99	0.45
3:C:333:ILE:HA	11:K:47:ILE:HG23	1.99	0.45
5:E:83:CYS:N	5:E:111:VAL:O	2.28	0.45
7:G:163:PRO:O	7:G:166:TRP:HD1	2.00	0.45
10:J:45:CYS:SG	10:J:46:CYS:N	2.89	0.45
15:O:353:ASP:HA	17:Q:31:PHE:HB3	1.98	0.45
15:O:388:ASN:O	17:Q:148:ASN:OD1	2.35	0.45
15:O:471:MET:HA	15:O:504:THR:HG22	1.99	0.45
16:P:95:LEU:HD13	16:P:96:ILE:C	2.36	0.45
16:P:103:LEU:CD1	16:P:104:PHE:N	2.70	0.45
16:P:112:LEU:HD12	16:P:112:LEU:O	2.16	0.45
16:P:197:GLU:HG3	16:P:198:ILE:H	1.79	0.45
16:P:330:TRP:HE1	16:P:452:PHE:HD1	1.61	0.45
16:P:416:ILE:CA	16:P:418:PRO:CD	2.95	0.45
16:P:419:LEU:CD1	17:Q:241:ARG:HE	2.29	0.45
1:A:86:TYR:CZ	1:A:317:SER:HB3	2.52	0.45
1:A:108:PHE:CE2	1:A:331:GLU:HG3	2.52	0.45
1:A:729:LYS:CB	1:A:776:LEU:HD23	2.46	0.45
1:A:1006:LEU:HD11	2:B:716:MET:HE3	1.99	0.45
1:A:1035:ASP:OD2	1:A:1039:ARG:NH2	2.49	0.45
1:A:1104:TYR:CE2	1:A:1117:SER:OG	2.70	0.45
2:B:898:LEU:O	2:B:898:LEU:HG	2.15	0.45
2:B:1002:LYS:CD	14:N:166:LEU:HD12	2.47	0.45
2:B:1061:LYS:O	16:P:45:GLU:HA	2.17	0.45
3:C:204:LEU:HD12	3:C:204:LEU:O	2.17	0.45
5:E:112:TYR:CE1	5:E:136:ASN:HA	2.51	0.45
7:G:8:ASN:OD1	7:G:9:GLU:N	2.50	0.45
7:G:73:TYR:HA	7:G:79:GLY:O	2.17	0.45
8:H:118:PHE:HD1	8:H:121:LEU:O	2.00	0.45
9:I:11:LEU:HD21	13:M:31:ARG:HD2	1.97	0.45
9:I:36:ILE:HB	9:I:39:LYS:NZ	2.32	0.45
15:O:14:UNK:CB	15:O:438:TRP:CE3	2.99	0.45
15:O:183:ASP:HB3	15:O:247:ILE:CD1	2.41	0.45
15:O:222:GLN:NE2	15:O:225:LEU:HD12	2.32	0.45
15:O:254:ILE:C	15:O:256:ARG:H	2.21	0.45
15:O:324:TRP:HD1	15:O:348:HIS:CD2	2.34	0.45
15:O:432:PRO:O	15:O:433:VAL:O	2.35	0.45
15:O:471:MET:CG	15:O:542:ARG:NH1	2.80	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:475:ARG:HD3	16:P:367:PHE:HZ	1.63	0.45
15:O:476:ILE:O	15:O:496:THR:OG1	2.28	0.45
15:O:641:TRP:HD1	15:O:644:THR:O	1.90	0.45
15:O:656:HIS:HB3	15:O:747:LEU:C	2.29	0.45
15:O:713:ILE:H	15:O:713:ILE:HD12	1.81	0.45
15:O:722:TRP:HE3	15:O:733:THR:CG2	1.88	0.45
16:P:16:PRO:HA	16:P:18:ARG:NH2	2.28	0.45
16:P:172:LEU:C	16:P:172:LEU:CD2	2.85	0.45
16:P:198:ILE:CG1	16:P:200:PRO:HG3	2.46	0.45
16:P:209:ASN:C	16:P:210:TYR:HD2	2.16	0.45
16:P:238:HIS:CD2	16:P:289:ARG:CD	3.00	0.45
17:Q:216:LEU:HB2	17:Q:239:LEU:HD13	1.99	0.45
17:Q:248:LYS:N	17:Q:298:GLN:CD	2.70	0.45
1:A:58:LEU:O	1:A:59:ARG:CB	2.55	0.45
1:A:189:VAL:CG1	1:A:193:ILE:HD12	2.46	0.45
1:A:209:THR:HG21	5:E:173:SER:OG	2.17	0.45
1:A:423:LEU:O	1:A:427:PHE:CB	2.65	0.45
1:A:864:LEU:CD1	1:A:878:ARG:HD2	2.37	0.45
1:A:885:ASP:HB3	1:A:888:LYS:HB2	1.97	0.45
2:B:895:PHE:CE1	2:B:899:GLN:HB2	2.51	0.45
2:B:1149:GLU:HG3	7:G:239:THR:CG2	2.47	0.45
7:G:38:ILE:CG2	7:G:82:LEU:HD12	2.38	0.45
10:J:8:PHE:HB2	10:J:48:ARG:NH2	2.32	0.45
11:K:46:LYS:HA	11:K:66:VAL:HG22	1.98	0.45
13:M:38:PHE:HB3	13:M:53:LEU:HD11	1.99	0.45
14:N:54:TRP:CE2	14:N:135:LYS:HD3	2.51	0.45
14:N:93:THR:HG23	14:N:97:SER:CB	2.47	0.45
15:O:270:GLN:HG3	15:O:271:ILE:N	2.32	0.45
15:O:354:PRO:O	17:Q:24:ILE:HD12	2.17	0.45
15:O:382:GLU:OE1	15:O:433:VAL:CG1	2.48	0.45
15:O:397:LYS:CE	17:Q:131:TYR:CE1	3.00	0.45
16:P:28:THR:HA	16:P:36:GLU:HG3	1.99	0.45
16:P:335:THR:O	16:P:338:LEU:HB2	2.17	0.45
16:P:336:GLU:O	16:P:339:THR:N	2.50	0.45
16:P:344:THR:O	16:P:345:SER:OG	2.35	0.45
17:Q:247:ILE:CD1	17:Q:248:LYS:HD2	2.44	0.45
1:A:855:ARG:HH12	1:A:867:ASP:C	2.20	0.45
1:A:1200:MET:CE	1:A:1570:PHE:CE1	3.00	0.45
2:B:78:PRO:C	2:B:79:LEU:HG	2.36	0.45
2:B:173:ASN:OD1	2:B:174:LYS:N	2.50	0.45
2:B:278:LYS:HD2	2:B:313:PHE:CE2	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1056:THR:O	2:B:1057:MET:HB2	2.16	0.45
2:B:1061:LYS:HG2	2:B:1062:GLY:N	2.32	0.45
3:C:54:PHE:CE2	3:C:300:PHE:HD2	2.35	0.45
3:C:116:VAL:O	3:C:116:VAL:HG13	2.16	0.45
4:D:43:PHE:O	4:D:47:LYS:HG2	2.16	0.45
5:E:9:ILE:HG12	5:E:47:CYS:SG	2.56	0.45
5:E:172:GLU:O	5:E:213:ILE:HD13	2.17	0.45
6:F:133:VAL:HG13	6:F:146:TRP:O	2.17	0.45
7:G:157:ILE:HD11	7:G:231:PHE:CB	2.46	0.45
14:N:45:LYS:N	14:N:49:LYS:HG2	2.32	0.45
15:O:711:LEU:O	15:O:714:PHE:HB3	2.17	0.45
15:O:724:LEU:HD13	16:P:447:ALA:CB	2.40	0.45
15:O:771:ILE:HG22	16:P:109:GLN:OE1	2.08	0.45
16:P:119:LEU:HD13	16:P:165:LEU:HD11	1.87	0.45
16:P:334:LEU:HD22	16:P:449:GLN:OE1	2.16	0.45
17:Q:133:LYS:HE3	17:Q:133:LYS:CA	2.15	0.45
17:Q:317:LEU:CD2	17:Q:367:ILE:HG13	2.47	0.45
1:A:371:SER:O	1:A:377:VAL:HA	2.17	0.44
1:A:638:PRO:HB2	1:A:643:ALA:HB3	1.99	0.44
1:A:832:ASP:O	1:A:944:MET:CE	2.66	0.44
1:A:1320:GLN:HE22	1:A:1497:ILE:H	1.64	0.44
1:A:1463:ASP:HB2	1:A:1469:TRP:CD1	2.51	0.44
2:B:77:LYS:CD	2:B:89:GLY:C	2.75	0.44
3:C:335:GLN:NE2	11:K:49:LEU:HD23	2.32	0.44
5:E:10:SER:HA	5:E:39:LEU:HD13	1.99	0.44
6:F:109:VAL:HG22	6:F:110:ASP:N	2.32	0.44
7:G:214:LEU:C	7:G:214:LEU:CD2	2.86	0.44
15:O:230:HIS:CB	15:O:280:ARG:HH22	2.31	0.44
15:O:554:ASN:C	15:O:555:THR:HG23	2.36	0.44
15:O:656:HIS:CB	15:O:747:LEU:N	2.81	0.44
16:P:103:LEU:CG	16:P:211:TYR:CE2	2.97	0.44
16:P:125:PHE:HA	16:P:126:PRO:HD2	1.43	0.44
16:P:137:TRP:O	16:P:141:LEU:HG	2.16	0.44
16:P:284:LEU:HB2	16:P:305:ARG:NH1	2.32	0.44
16:P:418:PRO:C	16:P:419:LEU:CG	2.85	0.44
16:P:479:LEU:C	16:P:479:LEU:CD2	2.82	0.44
18:R:1:A:C2	20:T:22:DG:O6	2.60	0.44
1:A:522:ALA:CB	1:A:531:PRO:O	2.65	0.44
1:A:535:GLN:NE2	16:P:26:ARG:CZ	2.80	0.44
1:A:718:THR:OG1	1:A:730:GLN:NE2	2.50	0.44
1:A:789:SER:O	1:A:792:GLY:N	2.34	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:818:THR:HG23	2:B:780:GLY:HA3	2.00	0.44
1:A:998:HIS:HE1	2:B:712:SER:H	1.62	0.44
2:B:42:VAL:HG12	2:B:500:PHE:CB	2.47	0.44
2:B:65:VAL:HG11	2:B:102:VAL:CG2	2.47	0.44
2:B:73:ILE:HD12	2:B:425:ILE:HG23	1.98	0.44
2:B:274:VAL:CG2	2:B:309:LEU:HG	2.47	0.44
2:B:562:PRO:O	2:B:566:TYR:CD2	2.70	0.44
2:B:840:LEU:CD1	2:B:860:ALA:HB2	2.48	0.44
3:C:55:ASP:C	3:C:56:LEU:HD12	2.38	0.44
3:C:252:PRO:HB2	3:C:255:VAL:HG23	1.99	0.44
3:C:258:ILE:HG23	3:C:264:GLU:O	2.17	0.44
3:C:334:THR:HG21	11:K:44:ARG:C	2.38	0.44
10:J:30:LEU:HD23	10:J:35:ALA:CA	2.48	0.44
11:K:65:ILE:N	11:K:101:LEU:O	2.41	0.44
15:O:184:SER:O	15:O:185:GLN:HG3	2.17	0.44
15:O:194:ARG:CG	15:O:197:ARG:NH2	2.80	0.44
15:O:194:ARG:C	15:O:196:TYR:CD2	2.86	0.44
15:O:271:ILE:HB	15:O:289:SER:CB	2.47	0.44
15:O:289:SER:HB3	15:O:339:ARG:NH1	2.33	0.44
15:O:329:ILE:HB	15:O:330:PRO:CD	2.47	0.44
15:O:353:ASP:CA	17:Q:31:PHE:HB3	2.47	0.44
15:O:380:MET:CA	15:O:394:VAL:CG2	2.94	0.44
15:O:428:GLU:HA	15:O:435:ARG:HG2	1.84	0.44
15:O:706:GLU:OE2	16:P:346:GLU:OE2	2.35	0.44
16:P:103:LEU:HA	16:P:106:LYS:HD3	1.99	0.44
16:P:154:LEU:N	16:P:154:LEU:CD1	2.76	0.44
16:P:314:ILE:HG22	16:P:318:LEU:HD12	1.99	0.44
16:P:490:ASP:CB	16:P:491:PHE:CE1	2.89	0.44
17:Q:296:PRO:HA	17:Q:304:HIS:CE1	2.53	0.44
17:Q:390:ASN:HB2	17:Q:391:ASP:H	1.68	0.44
1:A:85:CYS:O	1:A:356:PHE:HA	2.17	0.44
1:A:813:LEU:HD22	1:A:817:PHE:CE2	2.52	0.44
2:B:164:MET:CA	2:B:194:PHE:HE1	2.31	0.44
2:B:531:VAL:CG2	2:B:701:ALA:HB2	2.48	0.44
2:B:785:ASP:O	2:B:925:GLY:CA	2.65	0.44
2:B:887:LEU:HD12	2:B:887:LEU:N	2.32	0.44
4:D:14:THR:N	4:D:17:ASN:HD21	2.09	0.44
8:H:116:TYR:OH	8:H:134:ASN:OD1	2.35	0.44
15:O:347:LEU:HB3	17:Q:152:ILE:CA	2.38	0.44
15:O:351:ILE:CA	17:Q:157:MET:HE1	2.41	0.44
15:O:362:ARG:HH12	15:O:364:GLU:CB	2.29	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:397:LYS:HE3	17:Q:131:TYR:CE1	2.52	0.44
15:O:437:SER:CB	15:O:489:PHE:CE2	3.00	0.44
15:O:458:LYS:HB3	15:O:459:PRO:CD	2.47	0.44
15:O:604:ILE:CA	15:O:732:LEU:HD22	2.33	0.44
15:O:700:LEU:HD22	15:O:710:GLY:O	2.18	0.44
15:O:735:GLU:O	15:O:737:VAL:N	2.50	0.44
15:O:772:ILE:CD1	16:P:138:LEU:CD2	2.81	0.44
16:P:18:ARG:CA	16:P:30:GLN:HG3	2.43	0.44
16:P:28:THR:CA	16:P:36:GLU:CD	2.85	0.44
16:P:103:LEU:HB2	16:P:203:TRP:CZ3	2.52	0.44
16:P:286:LEU:C	16:P:287:TRP:O	2.52	0.44
16:P:287:TRP:CE3	16:P:290:THR:HG23	2.51	0.44
16:P:294:HIS:CE1	20:T:48:DA:N7	2.86	0.44
17:Q:298:GLN:C	17:Q:299:THR:CG2	2.70	0.44
1:A:591:ARG:HB2	1:A:633:MET:HG2	1.99	0.44
1:A:1014:SER:O	20:T:15:DT:OP2	2.35	0.44
1:A:1288:ARG:HG2	1:A:1290:TYR:CE2	2.53	0.44
1:A:1294:MET:O	1:A:1469:TRP:CA	2.64	0.44
2:B:362:LEU:HD12	2:B:370:LYS:CG	2.47	0.44
2:B:705:PRO:HB3	2:B:981:SER:CB	2.47	0.44
5:E:26:ARG:HH21	5:E:187:TYR:C	2.19	0.44
5:E:32:GLN:NE2	5:E:36:GLU:HG3	2.31	0.44
6:F:79:ARG:HB3	6:F:146:TRP:CZ2	2.52	0.44
7:G:45:LEU:HD12	7:G:118:CYS:HB2	1.98	0.44
7:G:229:LEU:CD2	7:G:249:LEU:HD21	2.34	0.44
8:H:99:GLY:O	8:H:139:ASN:HA	2.17	0.44
13:M:56:GLU:HG2	13:M:61:GLU:CG	2.47	0.44
13:M:74:ASN:OD1	13:M:75:GLN:N	2.50	0.44
14:N:111:VAL:O	14:N:120:LYS:HB2	2.17	0.44
14:N:142:THR:HG22	14:N:143:ALA:N	2.33	0.44
15:O:260:LEU:HD23	15:O:271:ILE:HG22	1.99	0.44
15:O:352:PHE:CB	15:O:355:GLU:HB2	2.38	0.44
16:P:95:LEU:HD21	16:P:99:GLU:CG	2.46	0.44
16:P:385:PHE:HZ	17:Q:212:HIS:ND1	2.16	0.44
17:Q:380:SER:O	17:Q:384:VAL:N	2.51	0.44
17:Q:383:PHE:O	17:Q:383:PHE:CD1	2.70	0.44
1:A:572:THR:HG21	7:G:64:GLN:HE21	1.83	0.44
1:A:729:LYS:HG2	1:A:776:LEU:CD2	2.44	0.44
1:A:1300:ASN:OD1	1:A:1304:GLU:HG3	2.18	0.44
1:A:1647:ASN:HB3	2:B:1085:SER:CB	2.42	0.44
2:B:24:ARG:HG3	2:B:29:PRO:HD3	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:770:ASN:OD1	10:J:52:THR:HG21	2.17	0.44
2:B:829:ASN:O	2:B:831:GLU:N	2.49	0.44
2:B:840:LEU:HA	2:B:846:PRO:HA	2.00	0.44
2:B:862:PHE:HZ	2:B:867:ASN:HA	1.82	0.44
2:B:864:ASP:OD2	16:P:84:GLN:CD	2.56	0.44
2:B:1040:VAL:CG1	2:B:1043:LYS:HB2	2.47	0.44
2:B:1142:LEU:O	2:B:1142:LEU:HG	2.18	0.44
2:B:1151:ILE:HG21	2:B:1159:TRP:HB3	2.00	0.44
3:C:117:ASP:O	3:C:125:LYS:NZ	2.50	0.44
3:C:129:GLU:HG3	3:C:174:ARG:NH2	2.33	0.44
6:F:72:LYS:HZ1	6:F:141:GLY:HA3	1.83	0.44
6:F:78:GLN:HG3	6:F:78:GLN:O	2.18	0.44
6:F:116:ASP:O	6:F:120:ILE:HG13	2.17	0.44
9:I:38:PRO:CB	9:I:42:PHE:HA	2.48	0.44
15:O:232:ASN:HB2	15:O:281:SER:O	2.18	0.44
15:O:573:GLU:HB3	16:P:499:LYS:HD2	2.00	0.44
16:P:56:ILE:HD12	16:P:56:ILE:HA	1.88	0.44
17:Q:27:ILE:HG12	17:Q:169:PRO:CB	2.47	0.44
17:Q:286:GLN:O	17:Q:290:TYR:CE1	2.71	0.44
1:A:8:GLY:HA3	7:G:115:PHE:CE2	2.53	0.44
1:A:78:HIS:NE2	1:A:80:GLU:OE2	2.49	0.44
1:A:413:LEU:CD1	1:A:413:LEU:N	2.73	0.44
1:A:703:GLU:CA	11:K:53:ALA:HB2	2.48	0.44
1:A:845:ASP:OD1	1:A:848:LYS:HD2	2.18	0.44
2:B:746:THR:HG21	10:J:8:PHE:CZ	2.51	0.44
2:B:957:ARG:HG3	2:B:957:ARG:NH1	2.32	0.44
2:B:1111:LEU:HG	2:B:1111:LEU:O	2.18	0.44
7:G:37:CYS:HB3	7:G:127:PRO:N	2.31	0.44
15:O:232:ASN:O	15:O:233:VAL:HG23	2.17	0.44
15:O:264:ILE:CG1	15:O:305:PHE:CE2	2.96	0.44
15:O:375:PHE:CE2	15:O:380:MET:HE3	2.53	0.44
15:O:437:SER:O	15:O:438:TRP:HB3	2.17	0.44
15:O:662:LEU:N	15:O:662:LEU:CD2	2.73	0.44
15:O:698:LYS:CE	16:P:126:PRO:HD2	2.46	0.44
16:P:146:ASP:N	16:P:148:PRO:HD3	2.30	0.44
16:P:256:LEU:HD21	16:P:307:LEU:CD2	2.48	0.44
16:P:257:VAL:O	16:P:262:LEU:HB2	2.18	0.44
16:P:342:THR:C	16:P:343:THR:HG23	2.38	0.44
17:Q:352:TRP:CD1	17:Q:352:TRP:N	2.85	0.44
17:Q:365:TRP:CE3	17:Q:365:TRP:CA	2.98	0.44
1:A:77:GLY:C	1:A:362:VAL:HB	2.38	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:481:ARG:NE	1:A:632:GLU:OE1	2.50	0.44
1:A:587:VAL:CG2	1:A:636:HIS:O	2.65	0.44
1:A:1137:SER:HB2	5:E:205:SER:O	2.18	0.44
1:A:1654:PHE:HB2	6:F:135:ARG:O	2.16	0.44
2:B:111:ASP:O	2:B:116:ALA:HB3	2.17	0.44
3:C:53:ASN:HD22	14:N:174:GLY:CA	2.30	0.44
6:F:74:ILE:CG1	6:F:142:SER:HB3	2.48	0.44
8:H:93:TYR:CD1	8:H:145:ARG:HB2	2.52	0.44
8:H:103:LYS:HE3	8:H:115:TYR:CZ	2.51	0.44
13:M:16:GLN:NE2	14:N:36:LYS:HD2	2.33	0.44
15:O:213:VAL:HG12	15:O:214:LEU:N	2.33	0.44
15:O:308:ASN:HD21	15:O:370:GLN:HA	1.82	0.44
15:O:352:PHE:HB2	15:O:355:GLU:H	1.83	0.44
15:O:436:ILE:HB	17:Q:141:TRP:CH2	2.50	0.44
15:O:474:LYS:CE	15:O:498:LEU:HD21	2.48	0.44
15:O:611:ILE:HD13	15:O:731:LEU:HD23	1.99	0.44
15:O:698:LYS:CE	16:P:124:ARG:O	2.65	0.44
16:P:9:ILE:HA	16:P:18:ARG:HH21	0.38	0.44
16:P:136:ILE:HD11	16:P:243:PHE:HE2	1.82	0.44
16:P:240:LYS:HG3	16:P:241:GLU:N	2.33	0.44
17:Q:345:LEU:O	17:Q:349:ILE:HG23	2.17	0.44
1:A:58:LEU:HB2	16:P:63:THR:CB	2.48	0.44
1:A:410:LYS:O	1:A:413:LEU:CD1	2.65	0.44
1:A:520:ARG:O	1:A:524:ILE:HG13	2.17	0.44
1:A:636:HIS:CE1	2:B:1069:ILE:HD11	2.52	0.44
2:B:161:LEU:HD12	2:B:162:PRO:CD	2.47	0.44
2:B:508:PHE:CE1	19:S:41:DT:C5	3.05	0.44
4:D:31:VAL:CG1	7:G:40:ARG:HB2	2.48	0.44
6:F:103:MET:SD	7:G:112:PRO:HG2	2.58	0.44
6:F:146:TRP:HB3	6:F:151:LEU:HG	1.99	0.44
7:G:24:VAL:HG21	7:G:126:GLN:NE2	2.33	0.44
7:G:67:ASN:N	7:G:68:PRO:CD	2.81	0.44
7:G:163:PRO:HD2	7:G:166:TRP:HE1	1.83	0.44
7:G:234:ARG:HB3	7:G:246:ASP:OD2	2.17	0.44
14:N:53:VAL:HG12	14:N:133:PHE:CD1	2.51	0.44
14:N:56:ILE:HG21	14:N:58:PHE:CZ	2.53	0.44
15:O:309:PRO:HD2	15:O:365:TRP:CE3	2.53	0.44
15:O:393:VAL:C	15:O:394:VAL:HG13	2.38	0.44
15:O:530:ASN:O	15:O:531:PHE:CG	2.70	0.44
15:O:771:ILE:HG23	16:P:106:LYS:HG2	2.00	0.44
16:P:13:ASP:H	16:P:33:HIS:HE2	1.66	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:209:ASN:CG	16:P:210:TYR:CD2	2.91	0.44
16:P:447:ALA:HA	16:P:450:THR:HB	1.99	0.44
17:Q:294:VAL:CG2	17:Q:295:PRO:CD	2.94	0.44
1:A:52:LEU:HB2	1:A:63:SER:OG	2.18	0.44
1:A:395:LEU:O	1:A:398:ASP:HB3	2.17	0.44
1:A:405:LYS:O	1:A:406:LEU:C	2.56	0.44
1:A:1030:VAL:HB	1:A:1186:GLY:HA3	1.99	0.44
1:A:1527:GLN:HG3	1:A:1530:TRP:CE3	2.52	0.44
2:B:97:VAL:CG1	2:B:98:SER:N	2.81	0.44
3:C:135:SER:HA	3:C:205:LYS:HA	2.00	0.44
3:C:169:PHE:CD1	3:C:184:VAL:HB	2.53	0.44
3:C:293:ARG:HG3	3:C:293:ARG:NH1	2.33	0.44
4:D:12:THR:HG23	4:D:17:ASN:C	2.37	0.44
7:G:52:MET:HE2	7:G:53:TYR:CZ	2.53	0.44
7:G:148:LEU:HG	7:G:151:ASP:HA	2.00	0.44
7:G:169:VAL:HG21	7:G:216:HIS:HD2	1.83	0.44
13:M:23:VAL:HG13	14:N:108:THR:O	2.18	0.44
15:O:353:ASP:HB3	17:Q:31:PHE:HD2	1.83	0.44
15:O:376:ASP:OD1	15:O:379:LYS:CG	2.66	0.44
15:O:380:MET:O	15:O:393:VAL:O	2.35	0.44
15:O:703:PHE:CD2	15:O:705:HIS:HB3	2.53	0.44
17:Q:186:LEU:HA	17:Q:189:GLN:HB2	1.99	0.44
17:Q:346:ILE:O	17:Q:349:ILE:HG13	2.17	0.44
17:Q:398:ASP:O	17:Q:400:LYS:N	2.51	0.44
2:B:49:PHE:CD2	2:B:167:SER:HB2	2.53	0.43
2:B:61:LEU:O	2:B:65:VAL:HG22	2.17	0.43
2:B:490:LYS:O	2:B:490:LYS:HG2	2.17	0.43
2:B:848:ILE:HG23	2:B:848:ILE:O	2.18	0.43
5:E:12:LEU:HD21	5:E:58:MET:CE	2.48	0.43
7:G:218:VAL:CG2	7:G:224:PRO:HB3	2.41	0.43
8:H:39:THR:O	8:H:123:MET:HA	2.17	0.43
14:N:26:PRO:CG	14:N:29:PHE:CD2	3.01	0.43
14:N:79:THR:HA	14:N:88:LYS:HA	2.00	0.43
15:O:65:UNK:O	15:O:66:UNK:C	2.66	0.43
15:O:314:GLN:NE2	15:O:329:ILE:CD1	2.81	0.43
15:O:356:GLU:CG	15:O:377:ARG:NH2	2.79	0.43
15:O:366:PHE:CZ	15:O:426:ALA:O	2.70	0.43
15:O:578:PHE:CE1	16:P:312:LEU:CD1	2.84	0.43
16:P:151:GLU:OE2	16:P:153:LYS:CB	2.61	0.43
17:Q:361:ASP:O	17:Q:364:VAL:HG22	2.18	0.43
1:A:181:LEU:HD21	1:A:185:ARG:NH2	2.33	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:491:GLU:HG3	1:A:492:THR:N	2.34	0.43
1:A:614:LEU:HD21	1:A:635:MET:SD	2.58	0.43
1:A:680:LEU:HD12	1:A:820:TYR:CG	2.52	0.43
1:A:830:MET:HE1	2:B:963:PHE:HB3	2.00	0.43
1:A:1082:PRO:O	1:A:1085:LEU:HG	2.18	0.43
2:B:151:ASN:C	2:B:152:LEU:HD12	2.39	0.43
2:B:228:SER:O	2:B:253:LEU:HB3	2.18	0.43
2:B:362:LEU:HD12	2:B:370:LYS:CA	2.46	0.43
2:B:464:PHE:HE1	2:B:471:VAL:H	1.66	0.43
2:B:1051:PRO:HA	16:P:40:GLU:HB3	2.00	0.43
3:C:82:TYR:HA	12:L:67:PHE:O	2.18	0.43
3:C:244:ALA:O	3:C:247:PHE:HB3	2.18	0.43
5:E:55:ARG:HG2	5:E:82:PHE:HB3	1.99	0.43
13:M:42:LYS:HE2	13:M:49:ASP:CG	2.35	0.43
14:N:49:LYS:HA	14:N:49:LYS:HD2	1.78	0.43
14:N:131:LEU:C	14:N:131:LEU:CD1	2.86	0.43
15:O:247:ILE:HG12	15:O:261:VAL:CG1	2.48	0.43
15:O:264:ILE:CD1	15:O:302:VAL:CG1	2.96	0.43
15:O:271:ILE:CG2	15:O:272:PHE:N	2.81	0.43
15:O:306:ALA:O	15:O:317:ILE:HD13	2.18	0.43
15:O:314:GLN:C	15:O:316:ALA:H	2.21	0.43
15:O:393:VAL:HG23	15:O:394:VAL:HG13	2.00	0.43
16:P:155:GLN:HB3	16:P:229:LYS:CE	2.41	0.43
16:P:433:THR:O	16:P:433:THR:OG1	2.36	0.43
16:P:487:LEU:HD12	16:P:487:LEU:C	2.37	0.43
17:Q:177:LEU:HD22	17:Q:185:LYS:HA	2.01	0.43
1:A:36:THR:CB	1:A:45:VAL:HG21	2.37	0.43
1:A:56:ALA:N	1:A:62:CYS:HB2	2.33	0.43
1:A:328:PHE:CE2	1:A:355:PHE:HE2	2.35	0.43
1:A:636:HIS:CE1	2:B:1069:ILE:CD1	3.00	0.43
1:A:638:PRO:HB2	1:A:643:ALA:CB	2.48	0.43
1:A:997:PHE:O	1:A:1000:MET:N	2.50	0.43
1:A:1092:GLU:O	1:A:1096:LYS:N	2.45	0.43
2:B:609:ARG:NH1	2:B:672:MET:HE1	2.33	0.43
2:B:656:LEU:N	2:B:657:PRO:CD	2.82	0.43
2:B:741:LEU:HD23	2:B:741:LEU:HA	1.77	0.43
2:B:825:PHE:CA	2:B:861:TYR:HA	2.45	0.43
2:B:832:TRP:HB2	2:B:836:TRP:CE3	2.54	0.43
2:B:874:TYR:CZ	2:B:876:SER:HB3	2.53	0.43
2:B:923:GLN:NE2	2:B:953:ALA:HB3	2.34	0.43
6:F:147:SER:O	6:F:150:GLU:HG2	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:55:UNK:O	15:O:552:LEU:CD2	2.66	0.43
15:O:56:UNK:CB	15:O:552:LEU:HD23	2.48	0.43
15:O:319:ASP:HA	15:O:324:TRP:CA	2.49	0.43
15:O:436:ILE:CD1	15:O:436:ILE:O	2.66	0.43
15:O:506:THR:HG21	15:O:540:LYS:NZ	2.33	0.43
15:O:539:VAL:HG21	15:O:550:TYR:CE2	2.53	0.43
15:O:669:PHE:CE1	15:O:675:PHE:HB2	2.53	0.43
15:O:702:LEU:HD23	15:O:702:LEU:HA	1.82	0.43
16:P:157:HIS:CD2	16:P:159:THR:H	2.35	0.43
16:P:213:SER:CA	16:P:215:LEU:HD22	2.49	0.43
16:P:263:PRO:HB3	16:P:266:PHE:CE2	2.53	0.43
16:P:290:THR:CG2	16:P:298:VAL:CG2	2.95	0.43
17:Q:33:ARG:NH2	17:Q:36:LYS:HB2	2.20	0.43
1:A:35:PRO:CA	1:A:390:LEU:HD13	2.45	0.43
1:A:105:CYS:CB	1:A:236:CYS:HB3	2.47	0.43
1:A:786:TYR:HA	1:A:794:VAL:HG23	1.99	0.43
1:A:982:VAL:HA	1:A:994:GLU:OE2	2.18	0.43
1:A:1092:GLU:O	1:A:1095:LEU:N	2.51	0.43
3:C:143:ASN:OD1	3:C:158:ASN:HB2	2.17	0.43
5:E:94:LYS:CB	5:E:123:LEU:HD13	2.43	0.43
5:E:145:THR:HG21	5:E:187:TYR:CD2	2.53	0.43
7:G:37:CYS:O	7:G:126:GLN:CG	2.66	0.43
10:J:36:LEU:HB2	10:J:47:ARG:NH1	2.33	0.43
12:L:49:LYS:HE3	12:L:49:LYS:HB2	1.82	0.43
13:M:44:LYS:CG	13:M:49:ASP:OD1	2.65	0.43
14:N:41:ASN:HA	14:N:44:ASN:CB	2.48	0.43
14:N:52:GLN:HB3	14:N:54:TRP:NE1	2.34	0.43
15:O:175:ASP:HA	17:Q:196:GLU:O	2.18	0.43
15:O:367:SER:HB2	15:O:369:PHE:CD2	2.53	0.43
15:O:421:ILE:HG23	15:O:439:LYS:HG2	1.94	0.43
15:O:706:GLU:HB2	16:P:438:PHE:HB3	2.00	0.43
16:P:101:LYS:HE3	16:P:152:LEU:HA	2.00	0.43
16:P:129:PHE:C	16:P:129:PHE:CD1	2.91	0.43
16:P:137:TRP:NE1	16:P:141:LEU:CG	2.82	0.43
16:P:146:ASP:CA	16:P:148:PRO:CD	2.88	0.43
16:P:298:VAL:C	16:P:300:ASN:N	2.71	0.43
17:Q:33:ARG:NH2	17:Q:33:ARG:CB	2.81	0.43
17:Q:354:LEU:HA	17:Q:359:MET:H	1.83	0.43
17:Q:388:LYS:HE3	17:Q:393:ILE:CB	2.48	0.43
1:A:58:LEU:HG	1:A:60:ASN:HD22	1.83	0.43
1:A:59:ARG:HA	1:A:59:ARG:HD2	1.69	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:141:LEU:HD21	1:A:184:LYS:NZ	2.33	0.43
1:A:252:PHE:HD1	1:A:314:TYR:HA	1.84	0.43
1:A:361:VAL:CG2	2:B:1184:TYR:HA	2.48	0.43
1:A:382:GLN:HE22	2:B:1180:PHE:HE1	1.61	0.43
1:A:385:LEU:HD11	1:A:453:ILE:HG13	1.99	0.43
1:A:725:LEU:CD1	8:H:46:LEU:HD21	2.46	0.43
1:A:771:PHE:CZ	1:A:793:ILE:HD13	2.52	0.43
1:A:982:VAL:HG22	1:A:994:GLU:HB3	2.00	0.43
1:A:1240:LEU:HD23	1:A:1541:ILE:HG12	1.99	0.43
1:A:1328:ALA:O	1:A:1332:GLU:HG2	2.18	0.43
2:B:49:PHE:HE1	2:B:409:TYR:CE2	2.37	0.43
2:B:139:LEU:HD21	2:B:158:CYS:SG	2.58	0.43
2:B:157:ASP:O	2:B:157:ASP:OD1	2.37	0.43
2:B:773:VAL:HA	2:B:947:ILE:O	2.18	0.43
2:B:1139:LYS:C	2:B:1141:LEU:H	2.21	0.43
3:C:130:ASN:OD1	3:C:131:THR:OG1	2.20	0.43
3:C:215:ASP:OD1	3:C:215:ASP:C	2.56	0.43
5:E:2:ASP:O	5:E:6:GLU:HB2	2.18	0.43
8:H:53:ASP:OD1	8:H:54:SER:N	2.50	0.43
11:K:118:GLN:O	11:K:122:LYS:HG3	2.19	0.43
15:O:315:PHE:O	15:O:317:ILE:HG13	2.18	0.43
15:O:316:ALA:HB3	15:O:340:LYS:CD	2.38	0.43
15:O:347:LEU:HB2	17:Q:151:PRO:O	2.18	0.43
15:O:438:TRP:NE1	15:O:489:PHE:CB	2.73	0.43
15:O:472:ARG:NH2	17:Q:200:THR:HG22	2.17	0.43
15:O:473:HIS:H	15:O:504:THR:HG21	1.83	0.43
15:O:585:GLU:HA	15:O:588:SER:HB2	1.99	0.43
15:O:623:LEU:CD1	15:O:669:PHE:CA	2.97	0.43
15:O:722:TRP:CE2	16:P:262:LEU:CG	2.96	0.43
16:P:195:ALA:HB3	16:P:216:GLU:CB	2.38	0.43
16:P:237:ILE:HG21	16:P:239:PHE:HB2	2.01	0.43
16:P:257:VAL:C	16:P:262:LEU:CD1	2.87	0.43
16:P:367:PHE:CD1	17:Q:222:LEU:HD11	2.54	0.43
16:P:378:LEU:HD23	16:P:378:LEU:C	2.39	0.43
16:P:435:GLN:O	16:P:436:LEU:C	2.56	0.43
17:Q:209:ARG:O	17:Q:210:THR:O	2.36	0.43
17:Q:393:ILE:CG1	17:Q:395:LEU:HB2	2.47	0.43
17:Q:439:GLU:O	17:Q:442:LEU:HB3	2.18	0.43
1:A:102:CYS:CB	1:A:105:CYS:SG	3.06	0.43
1:A:236:CYS:SG	1:A:238:MET:HG2	2.58	0.43
1:A:461:GLU:CG	1:A:1618:THR:HB	2.48	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:725:LEU:HA	1:A:725:LEU:HD23	1.67	0.43
1:A:1088:HIS:CG	6:F:152:ILE:HD11	2.53	0.43
2:B:322:ASN:C	2:B:322:ASN:OD1	2.57	0.43
2:B:782:ASP:HA	2:B:786:ALA:O	2.19	0.43
2:B:1087:LEU:HD23	2:B:1087:LEU:O	2.19	0.43
6:F:127:GLU:HB3	6:F:129:LYS:HD3	2.00	0.43
7:G:162:ILE:CD1	7:G:217:TRP:CZ3	3.02	0.43
8:H:143:LEU:HD12	8:H:143:LEU:N	2.34	0.43
11:K:63:PHE:HB2	11:K:103:ILE:HG23	2.01	0.43
15:O:214:LEU:H	15:O:236:ILE:CG2	2.31	0.43
15:O:424:VAL:CG2	15:O:437:SER:OG	2.63	0.43
15:O:469:TYR:O	15:O:469:TYR:CD1	2.72	0.43
15:O:474:LYS:HG3	15:O:475:ARG:N	2.34	0.43
15:O:613:HIS:HD2	15:O:619:GLU:HG3	1.69	0.43
15:O:623:LEU:HD13	15:O:669:PHE:CA	2.48	0.43
15:O:702:LEU:HD13	16:P:174:LEU:HA	2.00	0.43
16:P:104:PHE:CE1	16:P:212:VAL:N	2.82	0.43
16:P:158:MET:HG3	16:P:192:TYR:OH	2.17	0.43
17:Q:134:PRO:HA	17:Q:140:ILE:CD1	2.47	0.43
17:Q:377:ASP:HA	17:Q:438:PHE:CE1	2.53	0.43
1:A:2:ASP:OD1	1:A:3:ILE:N	2.52	0.43
1:A:65:CYS:O	1:A:67:LEU:HG	2.19	0.43
1:A:233:CYS:O	1:A:237:GLY:HA2	2.19	0.43
1:A:921:PRO:HG2	8:H:19:ARG:CG	2.40	0.43
1:A:1654:PHE:CZ	6:F:89:GLU:HA	2.52	0.43
6:F:144:GLU:HB3	6:F:146:TRP:NE1	2.33	0.43
7:G:235:ASN:HB3	7:G:246:ASP:HB3	2.00	0.43
13:M:25:SER:HA	14:N:106:ASN:O	2.18	0.43
13:M:53:LEU:O	13:M:63:GLU:HA	2.17	0.43
15:O:472:ARG:HH21	17:Q:200:THR:CG2	2.17	0.43
15:O:693:PHE:CD2	15:O:746:ARG:CB	3.00	0.43
16:P:4:PHE:CE2	16:P:9:ILE:HG13	2.51	0.43
16:P:246:GLU:HB2	16:P:286:LEU:HB2	1.99	0.43
17:Q:266:SER:OG	17:Q:268:LEU:CB	2.58	0.43
17:Q:372:HIS:CG	17:Q:407:HIS:NE2	2.86	0.43
1:A:486:PRO:HA	1:A:616:LEU:O	2.17	0.43
1:A:799:GLU:HG2	1:A:1062:HIS:ND1	2.33	0.43
1:A:1026:GLN:HG3	1:A:1598:PHE:HD1	1.84	0.43
1:A:1229:ALA:HA	1:A:1595:TYR:CZ	2.53	0.43
2:B:178:TYR:O	2:B:182:GLN:HG2	2.18	0.43
2:B:226:GLY:C	2:B:229:TYR:HD2	2.22	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:290:ASP:CB	2:B:577:PHE:CZ	3.02	0.43
2:B:460:LYS:O	2:B:463:TYR:HB2	2.18	0.43
2:B:547:HIS:CD2	2:B:548:LYS:HG2	2.53	0.43
2:B:698:SER:O	2:B:702:ASN:ND2	2.52	0.43
2:B:817:ARG:HG2	19:S:25:DT:O3'	2.18	0.43
3:C:163:TYR:HD2	3:C:165:ARG:NH2	2.17	0.43
5:E:48:ASP:OD1	5:E:52:ARG:N	2.52	0.43
5:E:55:ARG:HB3	5:E:82:PHE:HB2	2.01	0.43
6:F:132:LEU:HA	6:F:132:LEU:HD23	1.80	0.43
8:H:131:ASN:OD1	8:H:132:LEU:HG	2.18	0.43
9:I:36:ILE:CB	9:I:39:LYS:HD3	2.48	0.43
13:M:81:PHE:HA	13:M:87:SER:O	2.19	0.43
14:N:91:ASP:HB2	14:N:137:PHE:CD1	2.54	0.43
14:N:124:THR:O	14:N:125:ALA:HB2	2.19	0.43
15:O:253:SER:C	15:O:254:ILE:HG13	2.39	0.43
15:O:308:ASN:HB3	15:O:315:PHE:CD2	2.53	0.43
15:O:446:ASP:OD1	15:O:446:ASP:C	2.54	0.43
15:O:616:SER:CA	15:O:620:ASP:N	2.54	0.43
15:O:665:ASN:HB3	15:O:668:SER:HG	1.79	0.43
15:O:709:PRO:O	15:O:710:GLY:C	2.57	0.43
15:O:757:GLN:HA	15:O:760:ILE:CG2	2.48	0.43
16:P:122:GLU:OE1	16:P:123:MET:HE3	2.15	0.43
16:P:129:PHE:HD1	16:P:129:PHE:C	2.22	0.43
16:P:209:ASN:C	16:P:211:TYR:CD1	2.92	0.43
16:P:211:TYR:CD1	16:P:211:TYR:N	2.85	0.43
16:P:301:HIS:HB2	16:P:304:LEU:HD13	2.00	0.43
16:P:474:GLU:OE1	16:P:474:GLU:HA	2.18	0.43
17:Q:248:LYS:CA	17:Q:248:LYS:HZ3	2.31	0.43
1:A:1102:LEU:HA	1:A:1105:ARG:HH21	1.84	0.43
1:A:1299:ASN:ND2	1:A:1466:SER:O	2.52	0.43
1:A:1443:GLN:NE2	1:A:1464:ASP:OD2	2.46	0.43
1:A:1640:ARG:CD	1:A:1646:LEU:O	2.59	0.43
2:B:264:TRP:CH2	2:B:356:ARG:HD3	2.54	0.43
2:B:657:PRO:CD	14:N:148:ILE:HD11	2.48	0.43
3:C:315:PHE:HB3	3:C:319:ARG:HH22	1.84	0.43
7:G:147:LEU:HD11	7:G:229:LEU:HD23	2.00	0.43
10:J:36:LEU:HD22	10:J:41:LEU:CD1	2.47	0.43
15:O:193:LEU:O	15:O:194:ARG:C	2.57	0.43
15:O:243:LYS:HZ1	15:O:301:GLN:HE21	1.62	0.43
15:O:396:ALA:HB3	17:Q:140:ILE:HD12	1.98	0.43
15:O:488:LEU:HD23	15:O:489:PHE:N	2.34	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:713:ILE:O	15:O:715:TYR:N	2.51	0.43
16:P:103:LEU:CD1	16:P:103:LEU:C	2.82	0.43
16:P:123:MET:HB3	16:P:125:PHE:CZ	2.53	0.43
16:P:411:ARG:O	16:P:415:LYS:HG3	2.19	0.43
16:P:416:ILE:CA	16:P:418:PRO:HD3	2.48	0.43
17:Q:182:LYS:N	19:S:10:DG:OP1	2.52	0.43
17:Q:247:ILE:O	17:Q:248:LYS:C	2.56	0.43
1:A:105:CYS:HB3	1:A:236:CYS:CB	2.49	0.43
1:A:202:THR:CB	1:A:207:SER:OG	2.66	0.43
1:A:360:LEU:HG	2:B:1184:TYR:CE1	2.53	0.43
1:A:406:LEU:HD21	1:A:410:LYS:HB3	0.65	0.43
1:A:437:PHE:HE2	2:B:1184:TYR:CE2	2.37	0.43
1:A:588:LEU:CD2	1:A:600:MET:CE	2.97	0.43
1:A:1063:MET:CE	1:A:1174:TYR:CD1	3.02	0.43
1:A:1290:TYR:CE1	1:A:1485:MET:HE2	2.54	0.43
2:B:232:TYR:HB3	2:B:384:LEU:CD2	2.44	0.43
2:B:664:VAL:HG13	2:B:668:GLU:CG	2.49	0.43
2:B:923:GLN:HE21	2:B:953:ALA:CB	2.31	0.43
2:B:1052:VAL:CG2	16:P:41:PHE:HE1	2.17	0.43
2:B:1167:PHE:CD2	2:B:1168:VAL:N	2.87	0.43
3:C:329:LYS:HE3	11:K:122:LYS:HZ2	1.84	0.43
4:D:24:ALA:HA	7:G:43:ILE:HA	2.01	0.43
6:F:138:LEU:O	6:F:141:GLY:N	2.50	0.43
7:G:82:LEU:HB2	7:G:123:TYR:C	2.39	0.43
14:N:82:ILE:N	14:N:85:HIS:O	2.51	0.43
15:O:389:TRP:CH2	17:Q:148:ASN:N	2.85	0.43
15:O:394:VAL:CG1	17:Q:141:TRP:HE1	2.31	0.43
15:O:500:ILE:CG2	15:O:501:PRO:HD2	2.40	0.43
15:O:537:PHE:CE1	15:O:552:LEU:HD11	2.49	0.43
15:O:577:LEU:CG	16:P:499:LYS:CE	2.84	0.43
15:O:583:GLU:OE2	15:O:584:ARG:CD	2.66	0.43
16:P:77:ASN:O	16:P:78:SER:HB2	2.19	0.43
16:P:100:ALA:CA	16:P:211:TYR:CZ	3.02	0.43
16:P:287:TRP:CG	16:P:298:VAL:HG11	2.53	0.43
16:P:364:SER:O	16:P:367:PHE:CB	2.67	0.43
16:P:442:LEU:HD11	16:P:446:TYR:OH	2.18	0.43
17:Q:354:LEU:N	17:Q:358:PHE:HB2	2.33	0.43
17:Q:393:ILE:HG13	17:Q:400:LYS:HZ1	1.83	0.43
17:Q:422:GLY:O	17:Q:424:PHE:CE1	2.71	0.43
1:A:58:LEU:CA	16:P:63:THR:CG2	2.97	0.42
1:A:367:PHE:HB2	2:B:1180:PHE:CD2	2.53	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:618:TYR:CE1	1:A:628:PHE:HE2	2.37	0.42
1:A:693:GLN:HE22	11:K:88:PHE:HA	1.84	0.42
1:A:1200:MET:HE3	1:A:1570:PHE:CE1	2.54	0.42
1:A:1531:ASP:CG	5:E:7:ARG:HH21	2.23	0.42
1:A:1545:ASP:O	1:A:1549:VAL:HG23	2.19	0.42
2:B:519:LYS:HE2	2:B:519:LYS:HB2	1.84	0.42
2:B:676:VAL:CB	2:B:680:GLU:OE2	2.60	0.42
2:B:1195:ARG:NH2	7:G:117:TRP:HZ2	2.16	0.42
6:F:144:GLU:OE1	6:F:146:TRP:NE1	2.48	0.42
7:G:169:VAL:CG1	7:G:218:VAL:HG21	2.49	0.42
9:I:26:SER:O	9:I:37:TYR:CE1	2.59	0.42
9:I:36:ILE:H	9:I:39:LYS:HZ3	1.66	0.42
14:N:43:ASP:HB3	14:N:51:GLN:HE21	1.83	0.42
14:N:95:ILE:HG13	14:N:96:GLU:N	2.32	0.42
15:O:189:THR:CG2	15:O:259:ASN:ND2	2.80	0.42
15:O:318:ILE:HD12	15:O:318:ILE:C	2.39	0.42
15:O:324:TRP:CE3	15:O:325:SER:N	2.87	0.42
15:O:475:ARG:HE	15:O:496:THR:HG21	1.84	0.42
15:O:573:GLU:O	15:O:574:TRP:C	2.56	0.42
15:O:705:HIS:CD2	15:O:705:HIS:C	2.89	0.42
15:O:736:ILE:CG2	16:P:271:LYS:HE2	2.49	0.42
15:O:749:LYS:H	15:O:750:PRO:HD3	1.84	0.42
16:P:156:LEU:CA	16:P:160:SER:HB3	2.49	0.42
16:P:402:MET:HE1	20:T:36:DC:OP2	2.18	0.42
17:Q:211:ARG:O	17:Q:214:VAL:HB	2.19	0.42
17:Q:357:PRO:O	17:Q:364:VAL:HG11	2.19	0.42
17:Q:361:ASP:O	17:Q:362:ALA:HB3	2.20	0.42
1:A:1260:LYS:HD3	1:A:1500:GLN:CD	2.40	0.42
1:A:1559:ARG:NH2	1:A:1583:ASP:OD2	2.48	0.42
1:A:1591:ARG:CZ	1:A:1596:LEU:HD23	2.49	0.42
2:B:614:GLU:CG	2:B:615:GLY:N	2.82	0.42
2:B:798:PHE:O	2:B:911:PRO:HG2	2.19	0.42
2:B:937:PRO:CG	2:B:1013:MET:HE1	2.47	0.42
2:B:1128:CYS:O	2:B:1163:GLN:CB	2.67	0.42
2:B:1180:PHE:HD1	2:B:1181:VAL:CG1	2.23	0.42
15:O:18:UNK:CB	17:Q:253:ILE:N	2.81	0.42
15:O:217:ALA:HB2	15:O:233:VAL:HA	1.99	0.42
15:O:306:ALA:O	15:O:317:ILE:HB	2.18	0.42
15:O:306:ALA:O	15:O:317:ILE:CD1	2.67	0.42
15:O:479:HIS:CE1	15:O:491:SER:HG	2.37	0.42
15:O:707:ASP:O	15:O:709:PRO:HD3	2.18	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:714:PHE:CE2	15:O:741:ILE:HD13	2.47	0.42
16:P:9:ILE:C	16:P:18:ARG:NH2	2.67	0.42
16:P:27:ARG:O	16:P:36:GLU:HB2	2.18	0.42
16:P:103:LEU:CD2	16:P:206:GLN:HE22	2.02	0.42
16:P:154:LEU:HD22	16:P:154:LEU:N	2.11	0.42
16:P:183:LYS:HE2	16:P:183:LYS:HB3	1.78	0.42
16:P:234:CYS:O	16:P:289:ARG:HB3	2.19	0.42
17:Q:280:SER:C	17:Q:282:SER:N	2.71	0.42
1:A:259:LYS:O	1:A:263:ASN:CB	2.67	0.42
1:A:717:PRO:HA	1:A:726:TRP:CE2	2.54	0.42
1:A:910:LYS:O	1:A:914:ASP:HB3	2.19	0.42
1:A:960:MET:HG3	2:B:522:PRO:HG2	2.01	0.42
1:A:1305:GLU:OE1	9:I:63:LYS:NZ	2.27	0.42
2:B:423:ASN:HB3	2:B:453:VAL:HG21	2.02	0.42
2:B:463:TYR:HD1	20:T:25:DG:OP1	1.89	0.42
2:B:954:PHE:CD1	2:B:963:PHE:CE2	3.07	0.42
2:B:970:LYS:HE3	2:B:1011:GLU:OE2	2.20	0.42
2:B:1162:GLY:C	2:B:1163:GLN:HG2	2.40	0.42
5:E:116:ILE:HD11	5:E:120:ALA:CB	2.49	0.42
7:G:85:GLU:O	7:G:121:ASN:HB2	2.19	0.42
8:H:49:VAL:HG12	8:H:50:ALA:N	2.34	0.42
9:I:2:SER:O	9:I:8:ILE:HG13	2.20	0.42
10:J:13:VAL:O	10:J:13:VAL:HG13	2.19	0.42
10:J:39:LEU:HD23	10:J:39:LEU:HA	1.81	0.42
14:N:70:LEU:C	14:N:72:VAL:H	2.23	0.42
15:O:186:TYR:C	15:O:187:ILE:HG13	2.39	0.42
15:O:264:ILE:HD13	15:O:302:VAL:CG1	2.49	0.42
15:O:366:PHE:HB2	15:O:373:LEU:HD11	1.99	0.42
15:O:541:LEU:N	15:O:541:LEU:CD1	2.82	0.42
15:O:653:SER:HB3	15:O:656:HIS:H	1.83	0.42
16:P:51:LEU:HD12	16:P:51:LEU:N	2.34	0.42
16:P:211:TYR:O	16:P:212:VAL:C	2.58	0.42
16:P:380:TRP:O	16:P:380:TRP:CG	2.71	0.42
1:A:324:LEU:O	1:A:328:PHE:HB2	2.20	0.42
1:A:593:PRO:O	1:A:595:LEU:N	2.52	0.42
1:A:790:LYS:HE2	1:A:791:TYR:CE2	2.54	0.42
1:A:1070:LEU:CD2	1:A:1154:LEU:HD23	2.46	0.42
1:A:1296:PHE:CE2	1:A:1470:CYS:HB2	2.54	0.42
1:A:1599:ASN:OD1	1:A:1601:GLN:HB2	2.19	0.42
2:B:91:LEU:HD23	2:B:93:ASN:CA	2.49	0.42
2:B:322:ASN:HD22	13:M:105:SER:C	2.22	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:27:LEU:HG	4:D:28:PRO:HD2	2.01	0.42
5:E:82:PHE:HA	5:E:111:VAL:HB	2.01	0.42
5:E:197:LYS:HB2	5:E:211:TYR:HE1	1.83	0.42
6:F:72:LYS:O	6:F:142:SER:HA	2.18	0.42
12:L:47:ARG:HD3	16:P:405:ASP:OD1	2.20	0.42
15:O:353:ASP:HB3	17:Q:31:PHE:CD2	2.55	0.42
15:O:375:PHE:CZ	15:O:380:MET:HE3	2.55	0.42
15:O:635:ASN:HA	15:O:638:LEU:CB	2.45	0.42
16:P:303:GLU:O	16:P:304:LEU:C	2.58	0.42
16:P:401:GLU:O	16:P:403:THR:N	2.52	0.42
16:P:435:GLN:H	16:P:435:GLN:HG3	1.44	0.42
1:A:254:THR:HA	1:A:312:SER:HB2	2.01	0.42
1:A:487:ASP:HB2	1:A:615:ARG:CG	2.49	0.42
1:A:722:PRO:CB	8:H:46:LEU:HB3	2.50	0.42
1:A:1175:MET:O	1:A:1178:LEU:HD12	2.20	0.42
2:B:380:LYS:HE3	2:B:637:TYR:HB3	2.01	0.42
2:B:507:SER:O	2:B:510:ALA:HB3	2.20	0.42
2:B:683:ASN:CG	14:N:154:ARG:HH22	2.23	0.42
2:B:811:LEU:HD11	2:B:825:PHE:CE2	2.54	0.42
2:B:1053:ASN:OD1	2:B:1054:SER:N	2.51	0.42
2:B:1113:THR:CG2	2:B:1166:LYS:HD2	2.50	0.42
2:B:1127:CYS:N	2:B:1166:LYS:CE	2.80	0.42
3:C:116:VAL:O	3:C:116:VAL:CG1	2.67	0.42
13:M:55:GLY:O	13:M:62:TYR:N	2.51	0.42
14:N:70:LEU:CD2	14:N:72:VAL:HG13	2.50	0.42
14:N:95:ILE:C	14:N:96:GLU:CG	2.88	0.42
15:O:506:THR:HG22	15:O:540:LYS:HG2	2.01	0.42
16:P:332:LEU:C	16:P:332:LEU:CD1	2.87	0.42
16:P:356:VAL:C	17:Q:211:ARG:CD	2.88	0.42
16:P:357:TYR:HB2	17:Q:211:ARG:HD2	1.88	0.42
16:P:360:LYS:HG3	16:P:363:SER:CB	2.48	0.42
17:Q:147:GLN:O	17:Q:148:ASN:C	2.56	0.42
17:Q:177:LEU:HD23	17:Q:177:LEU:HA	1.85	0.42
20:T:19:DC:H2"	20:T:20:DA:C5'	2.33	0.42
1:A:95:TYR:CZ	1:A:99:ARG:CD	3.03	0.42
1:A:314:TYR:CE2	1:A:316:LEU:HD23	2.55	0.42
1:A:406:LEU:HD22	1:A:410:LYS:HD3	2.02	0.42
1:A:477:ASN:ND2	2:B:1048:SER:O	2.52	0.42
1:A:1226:VAL:HG13	1:A:1598:PHE:CD2	2.54	0.42
2:B:538:PRO:O	2:B:541:LEU:N	2.43	0.42
2:B:881:TYR:CE1	3:C:95:GLU:OE2	2.72	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:974:LEU:HD13	2:B:1005:TYR:CD2	2.54	0.42
2:B:1010:ASN:ND2	2:B:1027:TYR:HD1	2.18	0.42
2:B:1060:VAL:HG21	16:P:43:ASP:HB3	2.02	0.42
3:C:50:ARG:O	3:C:304:SER:N	2.35	0.42
3:C:227:TYR:HA	3:C:299:ILE:O	2.19	0.42
5:E:204:THR:HG23	5:E:205:SER:N	2.34	0.42
7:G:143:SER:HA	7:G:159:LYS:HB2	2.01	0.42
10:J:41:LEU:O	10:J:47:ARG:HD3	2.20	0.42
13:M:25:SER:O	13:M:26:PHE:CD1	2.72	0.42
15:O:186:TYR:HA	15:O:201:GLU:CA	2.50	0.42
15:O:194:ARG:HG3	15:O:197:ARG:CZ	2.49	0.42
15:O:220:THR:HG1	15:O:228:ASN:C	2.18	0.42
15:O:241:PRO:O	15:O:265:THR:HB	2.20	0.42
15:O:326:ILE:N	15:O:344:ILE:HD13	2.27	0.42
15:O:420:GLU:H	15:O:442:LEU:HD11	1.85	0.42
15:O:604:ILE:CG2	15:O:732:LEU:CD2	2.97	0.42
15:O:703:PHE:CE2	16:P:254:LEU:CD2	2.93	0.42
16:P:246:GLU:HG2	16:P:286:LEU:CA	2.47	0.42
1:A:78:HIS:HA	1:A:361:VAL:HA	2.02	0.42
1:A:254:THR:HA	1:A:312:SER:HB3	2.01	0.42
1:A:1155:PHE:CD1	1:A:1163:GLU:HG3	2.55	0.42
2:B:232:TYR:CD2	2:B:385:VAL:HG22	2.55	0.42
2:B:628:TYR:CE2	2:B:630:PRO:HB3	2.54	0.42
2:B:679:GLN:H	2:B:679:GLN:CD	2.20	0.42
4:D:27:LEU:HD21	7:G:24:VAL:CG1	2.50	0.42
5:E:161:LYS:HE2	5:E:172:GLU:OE2	2.19	0.42
8:H:11:GLN:OE1	8:H:53:ASP:N	2.52	0.42
15:O:186:TYR:CE2	15:O:512:LEU:HD22	2.55	0.42
15:O:323:ASN:N	15:O:348:HIS:CD2	2.88	0.42
15:O:324:TRP:CD2	15:O:346:ASN:OD1	2.72	0.42
15:O:622:TYR:O	15:O:625:ASP:HB2	2.20	0.42
15:O:679:LEU:HD22	15:O:683:PHE:HE2	1.85	0.42
16:P:13:ASP:HB3	16:P:33:HIS:CE1	2.53	0.42
16:P:378:LEU:CD1	17:Q:234:LYS:CA	2.85	0.42
16:P:402:MET:CE	20:T:36:DC:OP2	2.68	0.42
16:P:496:GLU:OE2	16:P:499:LYS:HD3	2.19	0.42
17:Q:134:PRO:O	17:Q:135:GLU:OE1	2.38	0.42
17:Q:149:LYS:O	17:Q:149:LYS:HG3	2.19	0.42
17:Q:246:GLN:CD	17:Q:246:GLN:N	2.73	0.42
20:T:21:DT:H1'	20:T:22:DG:C1'	2.45	0.42
1:A:118:TYR:OH	1:A:226:LYS:HG3	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:499:PRO:HA	1:A:502:ALA:HB3	2.02	0.42
1:A:763:GLY:HA3	8:H:25:ARG:CZ	2.50	0.42
2:B:317:TYR:HB3	2:B:320:LEU:CG	2.50	0.42
2:B:334:PHE:HB3	2:B:338:PHE:CD2	2.54	0.42
2:B:576:THR:HG22	2:B:578:ALA:H	1.85	0.42
2:B:824:HIS:O	2:B:862:PHE:N	2.50	0.42
2:B:853:GLU:HG2	2:B:854:GLU:N	2.35	0.42
2:B:1002:LYS:HD2	2:B:1002:LYS:HA	1.87	0.42
3:C:53:ASN:ND2	14:N:174:GLY:CA	2.82	0.42
7:G:16:PHE:O	7:G:20:HIS:HB2	2.20	0.42
7:G:157:ILE:HG22	7:G:162:ILE:CG1	2.49	0.42
7:G:157:ILE:HD11	7:G:231:PHE:HB3	2.01	0.42
8:H:80:ARG:HG3	8:H:81:PRO:HD2	2.00	0.42
8:H:90:ALA:HB1	8:H:96:VAL:HG21	2.01	0.42
15:O:302:VAL:O	15:O:303:VAL:CB	2.63	0.42
15:O:371:LYS:NZ	15:O:431:ASP:OD1	2.52	0.42
15:O:475:ARG:HG2	15:O:496:THR:OG1	2.19	0.42
15:O:627:GLY:HA2	15:O:630:LEU:CG	2.49	0.42
16:P:122:GLU:CD	16:P:123:MET:HE3	2.38	0.42
16:P:366:TYR:HH	17:Q:218:ASP:HB2	1.80	0.42
17:Q:204:GLU:OE2	17:Q:205:VAL:N	2.52	0.42
1:A:373:LEU:N	1:A:376:GLU:O	2.37	0.42
1:A:412:SER:C	1:A:414:GLU:N	2.72	0.42
1:A:543:LEU:HD23	16:P:26:ARG:NE	2.34	0.42
1:A:673:HIS:NE2	2:B:783:MET:HE1	2.35	0.42
1:A:717:PRO:HB3	1:A:726:TRP:CH2	2.54	0.42
1:A:1440:ASN:ND2	1:A:1443:GLN:HG3	2.35	0.42
2:B:752:VAL:HB	2:B:920:ARG:HH22	1.84	0.42
3:C:63:ILE:HG22	3:C:67:PHE:CE2	2.55	0.42
3:C:142:ARG:NH2	10:J:67:GLU:OE2	2.33	0.42
6:F:112:GLU:OE2	6:F:123:LYS:HD2	2.19	0.42
7:G:145:ILE:HD13	7:G:225:ILE:HD12	2.01	0.42
8:H:128:ASN:ND2	8:H:129:TYR:HD2	2.17	0.42
10:J:18:TRP:CZ2	10:J:22:LEU:HD11	2.54	0.42
11:K:63:PHE:HB2	11:K:103:ILE:CG2	2.49	0.42
13:M:39:ASP:CB	13:M:54:HIS:O	2.68	0.42
13:M:47:GLU:HG2	13:M:47:GLU:O	2.20	0.42
15:O:223:ASN:C	15:O:224:THR:HG23	2.29	0.42
15:O:324:TRP:NE1	15:O:348:HIS:CA	2.72	0.42
15:O:411:LYS:HB2	15:O:411:LYS:HE3	1.65	0.42
15:O:416:LEU:HD12	15:O:417:THR:H	1.84	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:421:ILE:HG13	17:Q:138:PHE:CE2	2.48	0.42
15:O:442:LEU:H	15:O:442:LEU:HG	1.44	0.42
15:O:466:ALA:O	15:O:467:PHE:HD1	2.03	0.42
15:O:703:PHE:CZ	16:P:258:MET:SD	3.01	0.42
16:P:122:GLU:CD	16:P:122:GLU:C	2.78	0.42
16:P:132:VAL:O	16:P:135:ILE:HG13	2.19	0.42
16:P:195:ALA:CB	16:P:216:GLU:CB	2.97	0.42
16:P:291:ASP:OD1	16:P:291:ASP:N	2.52	0.42
16:P:332:LEU:O	16:P:336:GLU:N	2.50	0.42
16:P:380:TRP:O	16:P:380:TRP:CD2	2.73	0.42
17:Q:29:ARG:CA	17:Q:32:ASP:CG	2.79	0.42
1:A:467:PHE:HE2	1:A:1618:THR:HG21	1.82	0.42
2:B:91:LEU:HD23	2:B:93:ASN:C	2.40	0.42
2:B:190:ILE:HD11	2:B:496:PHE:CE2	2.55	0.42
2:B:889:GLY:HA2	2:B:895:PHE:CD2	2.55	0.42
2:B:1002:LYS:HG2	14:N:166:LEU:HD13	1.99	0.42
2:B:1180:PHE:CD1	2:B:1181:VAL:CG1	3.02	0.42
3:C:143:ASN:C	3:C:145:ASP:H	2.19	0.42
3:C:175:GLN:HB2	3:C:179:PHE:CD2	2.54	0.42
3:C:315:PHE:HB3	3:C:319:ARG:NH1	2.34	0.42
5:E:143:ASN:OD1	5:E:145:THR:N	2.48	0.42
6:F:107:VAL:HG11	6:F:111:LEU:HD12	2.02	0.42
7:G:86:GLY:O	7:G:120:VAL:HA	2.19	0.42
7:G:137:ILE:N	7:G:227:GLY:O	2.34	0.42
7:G:157:ILE:CD1	7:G:249:LEU:HG	2.49	0.42
7:G:219:ASP:CG	7:G:220:SER:H	2.23	0.42
8:H:90:ALA:CB	8:H:96:VAL:HG21	2.50	0.42
10:J:23:ASN:O	10:J:27:GLU:N	2.47	0.42
11:K:54:THR:HG23	11:K:61:ALA:CB	2.50	0.42
13:M:16:GLN:HB3	13:M:91:TYR:CD1	2.54	0.42
14:N:43:ASP:O	14:N:49:LYS:CG	2.64	0.42
14:N:103:ASN:ND2	14:N:130:PRO:HG2	2.28	0.42
15:O:233:VAL:HG12	15:O:234:THR:O	2.20	0.42
15:O:272:PHE:CD1	15:O:288:SER:HA	2.53	0.42
15:O:294:PHE:CE2	15:O:297:ILE:CG2	2.98	0.42
15:O:308:ASN:OD1	15:O:310:TRP:N	2.51	0.42
15:O:392:GLU:O	15:O:392:GLU:CG	2.68	0.42
15:O:426:ALA:O	15:O:427:SER:C	2.58	0.42
15:O:692:THR:HA	15:O:747:LEU:HD13	1.98	0.42
15:O:715:TYR:OH	15:O:734:LYS:HD2	2.19	0.42
16:P:137:TRP:NE1	16:P:141:LEU:CD2	2.82	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:198:ILE:CG2	16:P:200:PRO:CD	2.67	0.42
16:P:256:LEU:HA	16:P:259:GLN:HB2	2.02	0.42
16:P:274:ILE:O	16:P:275:GLU:C	2.58	0.42
16:P:330:TRP:CZ3	16:P:334:LEU:HD12	2.54	0.42
16:P:499:LYS:O	16:P:503:SER:N	2.29	0.42
1:A:395:LEU:HD21	1:A:426:ALA:HB2	2.02	0.41
1:A:461:GLU:O	1:A:465:GLY:HA2	2.20	0.41
1:A:618:TYR:CE2	2:B:783:MET:CE	3.02	0.41
1:A:702:PRO:HG3	1:A:712:ILE:HD11	2.02	0.41
1:A:1060:GLU:O	1:A:1061:SER:C	2.59	0.41
1:A:1219:ILE:N	1:A:1220:PRO:CD	2.82	0.41
1:A:1506:ARG:NH2	1:A:1522:GLU:OE2	2.53	0.41
2:B:270:LEU:HD12	2:B:270:LEU:HA	1.87	0.41
2:B:298:LYS:HG2	2:B:298:LYS:O	2.19	0.41
2:B:328:GLN:HE22	13:M:109:ARG:N	2.18	0.41
2:B:655:TYR:HD1	2:B:688:HIS:NE2	2.18	0.41
2:B:912:GLN:HB2	2:B:1039:MET:CE	2.50	0.41
2:B:979:GLN:OE1	2:B:996:PHE:HE1	2.03	0.41
3:C:147:PRO:O	3:C:151:THR:HG23	2.20	0.41
3:C:335:GLN:HE21	11:K:49:LEU:HD23	1.84	0.41
5:E:100:ILE:HG23	5:E:105:PHE:HD2	1.84	0.41
5:E:169:ARG:HD3	6:F:140:ASP:OD2	2.20	0.41
7:G:34:THR:HB	7:G:133:LEU:CD2	2.50	0.41
7:G:42:PRO:HB3	7:G:121:ASN:CG	2.39	0.41
12:L:40:LEU:CD1	12:L:44:ASP:HB3	2.50	0.41
13:M:43:LYS:HB2	14:N:29:PHE:HE1	1.78	0.41
14:N:70:LEU:CD2	14:N:72:VAL:CG1	2.98	0.41
15:O:216:ILE:O	15:O:234:THR:N	2.53	0.41
15:O:319:ASP:HA	15:O:324:TRP:CB	2.49	0.41
15:O:421:ILE:HG12	15:O:441:ASP:HB3	2.01	0.41
15:O:585:GLU:O	15:O:587:GLU:C	2.54	0.41
15:O:705:HIS:CD2	15:O:709:PRO:HD3	2.55	0.41
16:P:209:ASN:CG	16:P:210:TYR:HD2	2.22	0.41
17:Q:5:PRO:CD	17:Q:217:THR:HG21	2.48	0.41
17:Q:136:LYS:HD2	17:Q:305:THR:H	1.84	0.41
1:A:600:MET:HE2	2:B:1079:LEU:HD11	2.02	0.41
1:A:883:LEU:CD2	1:A:884:ARG:HH12	2.32	0.41
1:A:973:GLU:OE1	1:A:973:GLU:HA	2.20	0.41
1:A:1483:LEU:C	1:A:1483:LEU:HD12	2.41	0.41
2:B:186:GLU:C	2:B:188:ASP:N	2.74	0.41
2:B:833:PRO:HD2	2:B:836:TRP:CH2	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:94:LYS:HB2	5:E:123:LEU:HD11	1.97	0.41
6:F:130:ILE:HG22	6:F:132:LEU:H	1.84	0.41
7:G:38:ILE:HG12	7:G:125:TRP:CD1	2.55	0.41
7:G:48:SER:CB	7:G:115:PHE:CE1	3.02	0.41
15:O:210:THR:C	15:O:212:SER:N	2.69	0.41
15:O:308:ASN:O	15:O:315:PHE:CD2	2.70	0.41
15:O:657:SER:O	15:O:658:LYS:CD	2.68	0.41
16:P:39:VAL:HG21	16:P:41:PHE:CE2	2.55	0.41
16:P:110:PHE:CZ	16:P:199:LEU:HD23	2.55	0.41
16:P:279:THR:O	16:P:279:THR:OG1	2.27	0.41
16:P:469:PRO:CG	16:P:470:PRO:HD2	2.51	0.41
16:P:505:ILE:CG2	16:P:506:LYS:N	2.82	0.41
17:Q:174:GLU:O	17:Q:177:LEU:N	2.53	0.41
17:Q:204:GLU:CD	17:Q:204:GLU:N	2.73	0.41
17:Q:216:LEU:O	17:Q:217:THR:C	2.57	0.41
1:A:38:LEU:HD12	1:A:43:HIS:C	2.41	0.41
1:A:507:TYR:CZ	1:A:641:GLU:OE2	2.73	0.41
1:A:674:ILE:HD13	1:A:786:TYR:CZ	2.55	0.41
1:A:721:LYS:C	1:A:723:TYR:N	2.49	0.41
1:A:789:SER:O	1:A:790:LYS:C	2.57	0.41
1:A:946:LEU:HA	1:A:985:ARG:HB3	2.02	0.41
1:A:984:GLY:HA2	2:B:988:GLU:OE2	2.19	0.41
1:A:1180:ASN:HB3	6:F:86:THR:HB	2.02	0.41
2:B:657:PRO:HG3	14:N:148:ILE:HD11	2.02	0.41
2:B:858:ILE:HG13	2:B:874:TYR:HB2	2.02	0.41
2:B:1185:LEU:O	2:B:1186:ASP:CB	2.67	0.41
3:C:169:PHE:CE1	3:C:184:VAL:HG21	2.55	0.41
3:C:198:PRO:HB2	10:J:67:GLU:OE1	2.19	0.41
3:C:218:LYS:HZ3	12:L:70:ARG:HG3	1.85	0.41
3:C:295:ARG:O	3:C:298:PHE:CE1	2.68	0.41
4:D:13:ALA:H	4:D:17:ASN:ND2	2.18	0.41
5:E:31:THR:OG1	5:E:34:GLU:HG3	2.20	0.41
5:E:97:VAL:CG1	5:E:127:ILE:HD13	2.50	0.41
8:H:30:SER:HB2	8:H:36:CYS:SG	2.60	0.41
8:H:145:ARG:CG	8:H:146:ARG:N	2.84	0.41
13:M:38:PHE:CZ	14:N:121:ILE:HG13	2.54	0.41
14:N:150:TYR:HB3	14:N:154:ARG:NE	2.35	0.41
15:O:214:LEU:HD11	15:O:263:ILE:HG21	2.02	0.41
15:O:299:ASP:CG	17:Q:159:TYR:HD2	2.24	0.41
15:O:315:PHE:HB3	15:O:365:TRP:HZ2	1.85	0.41
15:O:315:PHE:CA	15:O:317:ILE:CD1	2.98	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:383:ILE:HG22	15:O:385:PHE:N	2.36	0.41
15:O:658:LYS:O	15:O:659:LEU:HD12	2.04	0.41
16:P:103:LEU:HB2	16:P:203:TRP:HZ3	1.84	0.41
16:P:354:LYS:CG	16:P:362:THR:HB	2.50	0.41
16:P:354:LYS:HD3	16:P:362:THR:HB	2.01	0.41
1:A:185:ARG:O	1:A:189:VAL:HG23	2.21	0.41
1:A:197:LEU:HD23	1:A:197:LEU:HA	1.81	0.41
1:A:379:GLU:H	16:P:56:ILE:H	1.67	0.41
1:A:379:GLU:HB2	16:P:56:ILE:H	1.84	0.41
1:A:1023:LEU:HD12	1:A:1024:THR:N	2.34	0.41
1:A:1294:MET:CE	1:A:1321:PHE:CE2	3.02	0.41
1:A:1609:SER:N	1:A:1632:GLU:OE1	2.47	0.41
2:B:16:PHE:CE2	2:B:978:ALA:HB2	2.56	0.41
2:B:175:MET:SD	2:B:183:HIS:CD2	3.14	0.41
2:B:826:GLY:H	2:B:861:TYR:HA	1.85	0.41
2:B:857:PRO:HB3	2:B:871:ILE:CD1	2.50	0.41
2:B:1108:GLY:O	2:B:1190:SER:HA	2.19	0.41
2:B:1175:THR:O	2:B:1179:PRO:HD3	2.19	0.41
3:C:164:ALA:HA	3:C:193:LEU:CD1	2.46	0.41
4:D:31:VAL:HG13	7:G:40:ARG:CB	2.51	0.41
9:I:11:LEU:HD12	13:M:29:GLY:O	2.21	0.41
14:N:81:THR:HG23	14:N:86:ASP:OD1	2.20	0.41
14:N:177:ALA:C	14:N:179:ASP:N	2.73	0.41
15:O:207:SER:O	15:O:213:VAL:HB	2.19	0.41
15:O:264:ILE:HG12	15:O:302:VAL:HG11	2.03	0.41
15:O:274:ILE:HD12	15:O:284:VAL:CG1	2.50	0.41
15:O:376:ASP:OD1	15:O:379:LYS:HG2	2.20	0.41
15:O:473:HIS:N	15:O:504:THR:HG21	2.35	0.41
15:O:704:LEU:CD1	16:P:123:MET:HE3	2.43	0.41
15:O:732:LEU:HD12	15:O:735:GLU:OE1	2.20	0.41
16:P:34:VAL:HG23	16:P:35:MET:N	2.35	0.41
16:P:137:TRP:CE2	16:P:141:LEU:HD21	2.56	0.41
16:P:199:LEU:CD1	16:P:199:LEU:C	2.69	0.41
16:P:211:TYR:HD2	16:P:212:VAL:HG23	1.85	0.41
16:P:355:VAL:CG1	17:Q:215:THR:CG2	2.98	0.41
16:P:378:LEU:HD12	17:Q:235:ILE:CD1	2.46	0.41
16:P:403:THR:CA	16:P:405:ASP:H	2.27	0.41
17:Q:136:LYS:HD2	17:Q:305:THR:N	2.35	0.41
17:Q:251:TRP:CD1	17:Q:298:GLN:OE1	2.73	0.41
17:Q:381:ARG:N	17:Q:384:VAL:HG22	2.33	0.41
17:Q:384:VAL:C	17:Q:388:LYS:O	2.58	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:35:PRO:HA	1:A:390:LEU:HD12	2.00	0.41
1:A:721:LYS:HG2	8:H:95:TYR:CA	2.50	0.41
1:A:727:THR:OG1	1:A:730:GLN:HG3	2.21	0.41
1:A:1052:GLY:HA2	5:E:208:TYR:CE1	2.55	0.41
2:B:68:ILE:HG22	2:B:414:LYS:HE2	2.02	0.41
2:B:95:LEU:HB2	2:B:440:PHE:HD2	1.75	0.41
2:B:194:PHE:N	2:B:201:LYS:O	2.39	0.41
2:B:338:PHE:CZ	2:B:353:VAL:HG13	2.55	0.41
2:B:903:ILE:HD13	2:B:905:TYR:HE1	1.85	0.41
2:B:941:THR:O	2:B:941:THR:CG2	2.68	0.41
2:B:1135:PHE:HB2	2:B:1159:TRP:HB2	2.02	0.41
3:C:111:ASP:OD1	3:C:111:ASP:O	2.37	0.41
5:E:165:LEU:HD11	5:E:172:GLU:CG	2.50	0.41
6:F:74:ILE:HD11	6:F:142:SER:CB	2.49	0.41
6:F:92:ARG:NH2	7:G:109:PRO:HA	2.35	0.41
7:G:12:GLU:CD	7:G:15:ARG:HE	2.24	0.41
8:H:10:PHE:HD1	8:H:30:SER:HA	1.82	0.41
8:H:21:ASN:O	8:H:21:ASN:OD1	2.39	0.41
13:M:79:GLY:HA3	13:M:90:LEU:HD23	2.02	0.41
14:N:144:LYS:O	14:N:145:ILE:C	2.57	0.41
14:N:145:ILE:O	14:N:145:ILE:CG1	2.69	0.41
15:O:317:ILE:HD12	15:O:317:ILE:N	2.35	0.41
15:O:368:HIS:C	15:O:370:GLN:H	2.23	0.41
15:O:389:TRP:CZ3	17:Q:148:ASN:O	2.72	0.41
15:O:604:ILE:CG1	15:O:732:LEU:HD23	2.40	0.41
16:P:237:ILE:HG22	16:P:239:PHE:N	2.35	0.41
16:P:354:LYS:HG2	16:P:362:THR:HG21	0.58	0.41
17:Q:386:ASP:O	17:Q:390:ASN:CA	2.67	0.41
17:Q:398:ASP:CG	17:Q:401:ILE:CD1	2.87	0.41
17:Q:440:SER:O	17:Q:441:ARG:C	2.58	0.41
1:A:27:LEU:HD12	1:A:28:SER:N	2.35	0.41
1:A:361:VAL:HG23	2:B:1184:TYR:HD1	1.83	0.41
1:A:437:PHE:CD2	2:B:1184:TYR:CE2	3.08	0.41
1:A:467:PHE:CD1	1:A:471:MET:SD	3.14	0.41
1:A:571:HIS:CD2	1:A:572:THR:HG23	2.55	0.41
1:A:946:LEU:HD12	1:A:946:LEU:C	2.41	0.41
1:A:965:THR:OG1	1:A:978:ALA:O	2.35	0.41
1:A:1600:ARG:HG3	1:A:1601:GLN:OE1	2.21	0.41
2:B:64:GLY:O	2:B:68:ILE:HG23	2.20	0.41
2:B:173:ASN:ND2	2:B:174:LYS:HG3	2.36	0.41
2:B:572:PRO:HG2	2:B:575:HIS:HD2	1.86	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:683:ASN:HA	14:N:150:TYR:CE1	2.54	0.41
2:B:697:LEU:HD23	2:B:697:LEU:HA	1.79	0.41
2:B:864:ASP:HB3	16:P:84:GLN:CD	2.41	0.41
2:B:873:THR:HG22	2:B:874:TYR:N	2.35	0.41
2:B:985:ILE:HG12	14:N:160:VAL:HG11	2.02	0.41
3:C:251:PHE:HB3	3:C:252:PRO:HD2	2.01	0.41
3:C:251:PHE:HD2	3:C:256:ILE:CG1	2.34	0.41
4:D:14:THR:H	4:D:17:ASN:CG	2.23	0.41
5:E:169:ARG:HB3	6:F:140:ASP:OD2	2.20	0.41
7:G:73:TYR:CE2	7:G:75:ASN:HA	2.56	0.41
7:G:162:ILE:HA	7:G:249:LEU:HB2	2.02	0.41
7:G:169:VAL:HG13	7:G:218:VAL:CG2	2.51	0.41
11:K:126:ASP:O	11:K:129:ASP:HB3	2.21	0.41
15:O:257:ARG:HB3	15:O:258:SER:H	1.59	0.41
15:O:276:SER:CB	15:O:284:VAL:HG22	2.50	0.41
15:O:323:ASN:O	15:O:324:TRP:CD1	2.74	0.41
15:O:352:PHE:CB	15:O:355:GLU:HB3	2.34	0.41
15:O:426:ALA:O	15:O:428:GLU:N	2.54	0.41
15:O:443:ASP:HB2	17:Q:2:PHE:HD2	1.85	0.41
15:O:468:VAL:O	15:O:468:VAL:HG23	2.20	0.41
15:O:474:LYS:HE3	15:O:498:LEU:HD21	2.02	0.41
15:O:538:LEU:HD12	15:O:538:LEU:C	2.41	0.41
16:P:154:LEU:N	16:P:154:LEU:CD2	2.78	0.41
16:P:237:ILE:HG22	16:P:239:PHE:HA	2.03	0.41
16:P:334:LEU:HD21	16:P:449:GLN:CD	2.40	0.41
16:P:370:SER:OG	16:P:373:GLU:CG	2.68	0.41
17:Q:149:LYS:C	17:Q:149:LYS:HD3	2.40	0.41
17:Q:350:SER:C	17:Q:352:TRP:N	2.74	0.41
17:Q:424:PHE:H	17:Q:424:PHE:HD1	1.68	0.41
1:A:36:THR:CG2	1:A:45:VAL:HB	2.51	0.41
1:A:85:CYS:SG	1:A:431:GLN:OE1	2.79	0.41
1:A:406:LEU:CD1	1:A:416:ARG:HG3	2.47	0.41
1:A:461:GLU:HA	1:A:465:GLY:CA	2.50	0.41
1:A:675:SER:HB3	1:A:826:PHE:CE2	2.56	0.41
1:A:1461:ASN:OD1	1:A:1469:TRP:HH2	2.03	0.41
1:A:1658:ALA:O	7:G:104:LEU:HD12	2.21	0.41
2:B:49:PHE:HD2	2:B:167:SER:HB2	1.85	0.41
2:B:140:LYS:NZ	17:Q:421:LYS:NZ	2.69	0.41
4:D:99:LEU:CD1	4:D:100:PRO:HD2	2.46	0.41
5:E:55:ARG:CG	5:E:82:PHE:HB3	2.51	0.41
6:F:79:ARG:HD2	6:F:146:TRP:CE2	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:110:ASP:O	8:H:128:ASN:O	2.39	0.41
10:J:56:LEU:HG	10:J:56:LEU:O	2.21	0.41
11:K:86:VAL:HG11	11:K:89:CYS:HB2	2.02	0.41
15:O:18:UNK:O	17:Q:256:GLU:HB2	2.20	0.41
15:O:24:UNK:CA	17:Q:314:TRP:CZ3	2.96	0.41
15:O:54:UNK:HA	15:O:554:ASN:ND2	2.35	0.41
15:O:573:GLU:C	15:O:575:ALA:N	2.73	0.41
15:O:641:TRP:O	15:O:645:LYS:HB2	2.21	0.41
16:P:95:LEU:HD21	16:P:99:GLU:CB	2.50	0.41
16:P:158:MET:HB2	16:P:192:TYR:CE1	2.53	0.41
16:P:332:LEU:HD12	16:P:333:SER:CA	2.51	0.41
17:Q:175:ILE:HB	17:Q:176:PRO:HD2	2.01	0.41
17:Q:175:ILE:CB	17:Q:176:PRO:HD3	2.46	0.41
17:Q:214:VAL:O	17:Q:215:THR:C	2.59	0.41
17:Q:365:TRP:HB3	17:Q:418:CYS:HB2	2.02	0.41
17:Q:394:GLY:O	17:Q:395:LEU:C	2.59	0.41
1:A:535:GLN:HE21	16:P:26:ARG:NH1	2.13	0.41
1:A:588:LEU:HD21	1:A:600:MET:CE	2.50	0.41
1:A:669:LEU:HD12	1:A:786:TYR:CD2	2.56	0.41
1:A:762:LYS:HE3	8:H:16:ASP:OD2	2.20	0.41
1:A:1027:LEU:N	1:A:1027:LEU:HD12	2.35	0.41
1:A:1254:PHE:CE1	1:A:1532:GLN:OE1	2.72	0.41
1:A:1483:LEU:HD11	1:A:1485:MET:CE	2.51	0.41
2:B:108:MET:HA	2:B:121:VAL:HG23	2.03	0.41
2:B:119:ARG:HH22	12:L:54:ARG:HH21	1.68	0.41
2:B:165:LEU:HD12	2:B:165:LEU:N	2.35	0.41
2:B:568:LEU:HD23	2:B:568:LEU:HA	1.93	0.41
2:B:620:LEU:HD23	2:B:620:LEU:C	2.41	0.41
2:B:648:ARG:CZ	2:B:650:LEU:HD11	2.51	0.41
2:B:816:ASN:HB2	2:B:819:ASP:OD2	2.20	0.41
2:B:848:ILE:CD1	2:B:884:GLU:HA	2.51	0.41
7:G:29:ASP:C	7:G:31:LYS:N	2.74	0.41
7:G:85:GLU:HB2	7:G:123:TYR:CE2	2.46	0.41
8:H:108:SER:OG	8:H:111:LEU:N	2.33	0.41
13:M:26:PHE:CD2	13:M:30:PHE:CD2	3.09	0.41
13:M:56:GLU:HG2	13:M:61:GLU:HG3	2.03	0.41
15:O:187:ILE:HG12	15:O:258:SER:HG	1.85	0.41
15:O:302:VAL:C	15:O:320:ILE:HG13	2.41	0.41
15:O:328:ARG:O	15:O:340:LYS:CA	2.60	0.41
15:O:357:LEU:CG	15:O:358:SER:N	2.66	0.41
15:O:375:PHE:CZ	15:O:381:ILE:O	2.74	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:421:ILE:CG2	15:O:422:ILE:N	2.84	0.41
15:O:618:ASP:OD1	15:O:622:TYR:CD2	2.71	0.41
15:O:657:SER:C	15:O:658:LYS:HG2	2.39	0.41
15:O:724:LEU:CD1	16:P:443:GLN:O	2.69	0.41
16:P:38:ASP:OD1	16:P:38:ASP:N	2.46	0.41
16:P:93:LYS:HZ2	16:P:93:LYS:CA	2.32	0.41
16:P:166:TYR:CD2	16:P:167:LEU:HD12	2.35	0.41
16:P:234:CYS:C	16:P:289:ARG:CB	2.87	0.41
16:P:299:SER:C	16:P:301:HIS:N	2.73	0.41
16:P:337:SER:OG	16:P:448:LYS:CE	2.68	0.41
16:P:379:LYS:HD2	16:P:379:LYS:HA	1.78	0.41
20:T:19:DC:C3'	20:T:20:DA:C5'	2.98	0.41
1:A:30:LYS:HE3	1:A:51:ASP:OD2	2.20	0.41
1:A:257:ASN:HB3	1:A:260:GLN:HG3	2.03	0.41
1:A:368:ARG:CD	1:A:383:ASN:OD1	2.69	0.41
1:A:371:SER:HB2	1:A:378:HIS:HB2	2.01	0.41
1:A:406:LEU:HD12	1:A:416:ARG:CD	2.49	0.41
1:A:456:VAL:HG21	2:B:1185:LEU:HD11	2.03	0.41
1:A:469:LYS:O	2:B:1070:ARG:NH2	2.53	0.41
1:A:486:PRO:HB3	1:A:618:TYR:CE1	2.56	0.41
1:A:629:ASP:N	2:B:785:ASP:HB2	2.36	0.41
1:A:674:ILE:HD13	1:A:786:TYR:CE2	2.56	0.41
1:A:749:LEU:HD22	1:A:796:SER:OG	2.20	0.41
1:A:827:THR:OG1	1:A:828:CYS:N	2.54	0.41
1:A:1085:LEU:HD22	6:F:84:TYR:OH	2.21	0.41
1:A:1155:PHE:CE1	1:A:1163:GLU:HG3	2.55	0.41
1:A:1234:LYS:HA	1:A:1234:LYS:HD2	1.83	0.41
1:A:1322:ILE:HG23	1:A:1323:HIS:N	2.36	0.41
1:A:1533:GLU:OE1	5:E:14:ARG:CZ	2.67	0.41
1:A:1605:THR:HG22	1:A:1605:THR:O	2.21	0.41
2:B:221:SER:HB3	19:S:40:DT:C3'	2.49	0.41
2:B:372:ARG:NH2	2:B:574:SER:N	2.69	0.41
2:B:404:LEU:HA	2:B:404:LEU:HD23	1.85	0.41
2:B:561:ILE:O	2:B:564:ILE:HG22	2.20	0.41
2:B:791:LYS:CB	2:B:931:TRP:O	2.67	0.41
2:B:882:ILE:HG23	2:B:903:ILE:CG1	2.51	0.41
2:B:894:LYS:HB2	2:B:894:LYS:HE2	1.77	0.41
2:B:1036:LEU:HD23	2:B:1036:LEU:HA	1.83	0.41
2:B:1061:LYS:CD	16:P:46:ASP:HB2	2.50	0.41
3:C:53:ASN:C	3:C:53:ASN:OD1	2.59	0.41
3:C:93:GLN:CG	3:C:95:GLU:OE1	2.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:127:THR:H	3:C:130:ASN:HD21	1.69	0.41
3:C:132:ILE:HG23	3:C:169:PHE:HE1	1.85	0.41
4:D:12:THR:HG22	4:D:18:THR:HG1	1.82	0.41
5:E:68:SER:O	5:E:72:PHE:N	2.51	0.41
5:E:86:PRO:CA	5:E:113:GLN:HB2	2.48	0.41
5:E:197:LYS:CB	5:E:211:TYR:HE1	2.34	0.41
6:F:127:GLU:HB3	6:F:129:LYS:HZ3	1.82	0.41
7:G:235:ASN:O	7:G:246:ASP:HB3	2.20	0.41
8:H:12:VAL:O	8:H:52:GLN:HA	2.21	0.41
11:K:82:LYS:O	11:K:84:PRO:HD3	2.20	0.41
13:M:109:ARG:CG	13:M:110:GLY:H	2.32	0.41
14:N:80:MET:HE2	14:N:82:ILE:HD11	1.98	0.41
15:O:191:SER:O	15:O:192:ASP:HB2	2.21	0.41
15:O:315:PHE:CA	15:O:317:ILE:HD11	2.49	0.41
15:O:339:ARG:CG	15:O:340:LYS:H	2.32	0.41
15:O:393:VAL:O	15:O:394:VAL:CG2	2.53	0.41
15:O:448:THR:OG1	15:O:471:MET:SD	2.79	0.41
15:O:472:ARG:NH2	17:Q:200:THR:N	2.42	0.41
15:O:483:HIS:ND1	15:O:489:PHE:HE1	2.19	0.41
15:O:512:LEU:O	15:O:513:THR:C	2.59	0.41
15:O:513:THR:O	15:O:514:LEU:HB3	2.21	0.41
15:O:586:LYS:HG3	16:P:320:PHE:CE1	2.56	0.41
16:P:73:SER:O	16:P:74:GLN:CB	2.69	0.41
16:P:95:LEU:HG	16:P:99:GLU:HG2	2.03	0.41
16:P:184:TRP:HZ2	16:P:192:TYR:CD2	2.12	0.41
16:P:184:TRP:CE3	16:P:185:ILE:HG12	2.56	0.41
16:P:282:ARG:CG	16:P:282:ARG:NH1	2.83	0.41
16:P:335:THR:HG21	16:P:479:LEU:HB2	2.02	0.41
16:P:404:ILE:N	16:P:404:ILE:HD12	2.36	0.41
16:P:496:GLU:CD	16:P:499:LYS:HD3	2.41	0.41
17:Q:275:CYS:SG	17:Q:309:ALA:HA	2.60	0.41
17:Q:349:ILE:HD13	17:Q:368:TYR:CG	2.55	0.41
17:Q:354:LEU:HD23	17:Q:355:THR:N	2.36	0.41
1:A:86:TYR:O	1:A:88:PRO:HD3	2.21	0.41
1:A:265:ARG:O	1:A:268:GLY:N	2.52	0.41
1:A:336:GLN:HE22	1:A:344:ASN:HD22	1.69	0.41
1:A:495:ILE:O	1:A:495:ILE:HG23	2.21	0.41
1:A:572:THR:HA	7:G:52:MET:SD	2.61	0.41
2:B:501:ARG:HD2	2:B:501:ARG:HA	1.73	0.41
2:B:881:TYR:CB	2:B:906:ARG:HH21	2.34	0.41
2:B:916:LYS:HZ1	18:R:6:A:P	2.42	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:120:LEU:HD11	3:C:124:GLU:C	2.42	0.41
3:C:222:VAL:HG22	3:C:224:THR:N	2.35	0.41
4:D:19:PRO:HB3	7:G:47:VAL:HG12	2.02	0.41
5:E:20:LYS:HD2	5:E:35:VAL:HA	2.03	0.41
13:M:10:ILE:CD1	14:N:54:TRP:HH2	2.31	0.41
14:N:52:GLN:OE1	14:N:54:TRP:HZ2	2.04	0.41
15:O:251:SER:OG	15:O:253:SER:HB3	2.21	0.41
15:O:375:PHE:HD1	15:O:381:ILE:N	2.02	0.41
15:O:428:GLU:HG2	15:O:435:ARG:HD2	2.03	0.41
15:O:592:LEU:CD2	16:P:276:PHE:CZ	3.04	0.41
15:O:638:LEU:HA	15:O:748:GLU:CD	2.41	0.41
15:O:648:SER:HB3	15:O:759:GLU:OE1	2.21	0.41
15:O:656:HIS:CB	15:O:747:LEU:HB3	2.37	0.41
15:O:711:LEU:HD23	15:O:711:LEU:C	2.42	0.41
16:P:12:THR:OG1	16:P:13:ASP:N	2.53	0.41
16:P:20:TRP:HB2	16:P:27:ARG:NH1	2.34	0.41
16:P:179:CYS:HB2	16:P:255:LYS:CD	2.47	0.41
16:P:193:PHE:HA	16:P:217:GLY:HA3	2.02	0.41
16:P:239:PHE:CE1	16:P:246:GLU:CG	2.81	0.41
16:P:503:SER:O	16:P:507:ASN:ND2	2.54	0.41
1:A:591:ARG:HH12	1:A:593:PRO:HD2	1.86	0.40
1:A:989:GLY:HA3	2:B:709:PHE:CE1	2.50	0.40
1:A:1032:VAL:HG12	1:A:1033:SER:O	2.20	0.40
1:A:1258:ILE:HD13	1:A:1258:ILE:HA	1.84	0.40
2:B:70:GLU:HG2	2:B:98:SER:HB3	2.03	0.40
2:B:228:SER:O	2:B:253:LEU:CA	2.69	0.40
2:B:283:THR:CA	2:B:287:GLU:OE1	2.69	0.40
2:B:536:GLY:C	2:B:538:PRO:HD2	2.42	0.40
2:B:841:ASP:HB3	2:B:843:ASP:OD1	2.21	0.40
3:C:249:LYS:HB3	3:C:249:LYS:HE3	1.94	0.40
5:E:153:HIS:CG	5:E:184:VAL:HG11	2.57	0.40
7:G:35:SER:C	7:G:37:CYS:H	2.25	0.40
7:G:38:ILE:HG13	7:G:125:TRP:HD1	1.86	0.40
7:G:159:LYS:HA	7:G:162:ILE:HD12	2.02	0.40
13:M:11:GLU:CD	14:N:69:SER:HB3	2.42	0.40
15:O:182:LEU:O	15:O:183:ASP:OD1	2.39	0.40
15:O:188:GLN:CD	15:O:196:TYR:HB2	2.41	0.40
15:O:294:PHE:O	15:O:294:PHE:CG	2.74	0.40
15:O:358:SER:HB2	17:Q:194:GLY:O	2.20	0.40
15:O:421:ILE:HD12	17:Q:138:PHE:CE2	2.12	0.40
15:O:438:TRP:CZ2	15:O:490:GLN:O	2.74	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:554:ASN:O	15:O:555:THR:CG2	2.69	0.40
16:P:103:LEU:CD1	16:P:211:TYR:CD2	2.94	0.40
16:P:209:ASN:C	16:P:211:TYR:CE1	2.94	0.40
16:P:239:PHE:CD1	16:P:286:LEU:HD13	2.52	0.40
16:P:385:PHE:O	16:P:388:THR:CA	2.68	0.40
1:A:17:GLY:O	2:B:1188:GLU:N	2.54	0.40
1:A:593:PRO:C	1:A:595:LEU:N	2.72	0.40
1:A:1290:TYR:N	1:A:1474:LEU:O	2.28	0.40
1:A:1440:ASN:OD1	1:A:1440:ASN:C	2.59	0.40
2:B:238:SER:O	2:B:245:SER:HA	2.20	0.40
2:B:315:LYS:HE2	2:B:315:LYS:HB2	1.90	0.40
2:B:923:GLN:NE2	2:B:953:ALA:CB	2.84	0.40
3:C:115:TRP:HZ3	3:C:211:GLY:HA2	1.86	0.40
4:D:47:LYS:HZ1	7:G:84:TYR:HH	1.54	0.40
5:E:66:GLU:O	5:E:69:ILE:HG22	2.21	0.40
6:F:103:MET:O	6:F:104:ASN:HB2	2.20	0.40
8:H:11:GLN:HB2	8:H:31:THR:CG2	2.51	0.40
13:M:90:LEU:HD23	13:M:90:LEU:HA	1.79	0.40
14:N:74:PHE:HB2	14:N:78:THR:CG2	2.51	0.40
15:O:428:GLU:CA	15:O:435:ARG:HD2	2.44	0.40
15:O:478:MET:HE1	15:O:497:VAL:CG1	2.51	0.40
15:O:611:ILE:CG1	15:O:731:LEU:HD23	2.50	0.40
15:O:613:HIS:NE2	15:O:619:GLU:CB	2.85	0.40
15:O:702:LEU:HD13	16:P:174:LEU:O	2.21	0.40
16:P:135:ILE:C	16:P:135:ILE:HD12	2.41	0.40
16:P:152:LEU:HD22	16:P:152:LEU:H	1.79	0.40
1:A:32:ILE:CG1	1:A:362:VAL:HG21	2.51	0.40
1:A:79:ILE:HB	1:A:360:LEU:HB3	2.03	0.40
1:A:95:TYR:CZ	1:A:99:ARG:HD2	2.56	0.40
1:A:173:ILE:HG23	1:A:173:ILE:O	2.22	0.40
1:A:527:PRO:CB	1:A:534:THR:HG22	2.52	0.40
1:A:721:LYS:HA	1:A:721:LYS:HD2	1.87	0.40
1:A:883:LEU:HD23	1:A:884:ARG:HH12	1.86	0.40
1:A:956:ARG:NH1	1:A:979:GLY:CA	2.77	0.40
1:A:1260:LYS:HG3	1:A:1500:GLN:HB2	2.03	0.40
2:B:267:ASN:OD1	2:B:268:GLU:N	2.54	0.40
2:B:508:PHE:HD2	2:B:509:PHE:CE1	2.38	0.40
2:B:542:LEU:HD12	2:B:542:LEU:HA	1.92	0.40
2:B:1069:ILE:C	2:B:1069:ILE:CD1	2.90	0.40
2:B:1118:PRO:HB3	2:B:1123:ILE:C	2.42	0.40
2:B:1143:THR:HG21	7:G:16:PHE:CZ	2.55	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:185:ALA:HA	5:E:190:LEU:HD12	2.03	0.40
5:E:197:LYS:CG	5:E:211:TYR:HE1	2.34	0.40
7:G:169:VAL:HG13	7:G:218:VAL:HG21	2.03	0.40
8:H:30:SER:CB	8:H:36:CYS:HB3	2.45	0.40
11:K:77:ARG:HD2	11:K:91:TYR:HD1	1.85	0.40
11:K:111:THR:CG2	11:K:112:THR:N	2.84	0.40
15:O:326:ILE:HB	15:O:344:ILE:CB	2.52	0.40
15:O:366:PHE:HB2	15:O:373:LEU:CG	2.51	0.40
15:O:389:TRP:CE3	17:Q:148:ASN:O	2.75	0.40
15:O:454:GLN:H	15:O:465:VAL:CG2	2.32	0.40
16:P:6:ARG:HB3	16:P:71:GLN:NE2	2.35	0.40
16:P:26:ARG:HG2	16:P:35:MET:CE	2.52	0.40
16:P:225:GLN:HB3	16:P:226:LEU:CD1	2.48	0.40
16:P:246:GLU:HG3	16:P:286:LEU:HB2	1.73	0.40
16:P:287:TRP:CG	16:P:298:VAL:CG1	3.03	0.40
17:Q:381:ARG:C	17:Q:383:PHE:N	2.72	0.40
1:A:34:ASN:ND2	1:A:45:VAL:CG2	2.85	0.40
1:A:611:GLU:OE2	1:A:615:ARG:NE	2.54	0.40
1:A:799:GLU:HB2	1:A:1062:HIS:CE1	2.56	0.40
1:A:1183:GLU:OE2	1:A:1188:ILE:HD11	2.21	0.40
1:A:1262:LEU:HA	1:A:1497:ILE:HA	2.02	0.40
1:A:1615:TYR:O	1:A:1616:GLU:HG3	2.21	0.40
2:B:101:GLN:H	2:B:140:LYS:HB3	1.86	0.40
2:B:655:TYR:CE1	2:B:657:PRO:HD2	2.57	0.40
2:B:934:ILE:CG2	3:C:73:SER:OG	2.68	0.40
2:B:1088:LEU:HD11	2:B:1092:LEU:CD1	2.46	0.40
3:C:84:TYR:CE1	12:L:66:GLN:HB2	2.56	0.40
3:C:242:GLU:HG2	3:C:245:ARG:HH21	1.86	0.40
5:E:42:PHE:CZ	5:E:58:MET:HE1	2.57	0.40
5:E:58:MET:HB3	5:E:82:PHE:CD2	2.56	0.40
5:E:112:TYR:OH	5:E:136:ASN:HB2	2.21	0.40
7:G:48:SER:HB3	7:G:115:PHE:CE1	2.47	0.40
8:H:6:PHE:O	8:H:58:THR:HA	2.21	0.40
8:H:98:TYR:CZ	8:H:139:ASN:CB	3.05	0.40
8:H:102:TYR:CZ	8:H:115:TYR:HB3	2.56	0.40
10:J:57:ILE:O	10:J:61:LEU:HG	2.22	0.40
11:K:42:PRO:O	11:K:44:ARG:HG3	2.22	0.40
12:L:26:THR:CG2	12:L:28:LYS:HE2	2.52	0.40
15:O:183:ASP:HA	15:O:509:GLU:OE1	2.21	0.40
15:O:402:ILE:HA	15:O:418:SER:HA	2.03	0.40
15:O:423:ILE:HG12	15:O:439:LYS:HB3	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:461:HIS:CD2	15:O:484:ARG:HE	2.40	0.40
15:O:505:PRO:HA	15:O:541:LEU:HA	2.04	0.40
15:O:771:ILE:HG21	16:P:105:LEU:CD2	2.51	0.40
16:P:5:ILE:O	16:P:5:ILE:CG2	2.69	0.40
16:P:124:ARG:O	16:P:125:PHE:HD1	2.05	0.40
16:P:378:LEU:HD12	17:Q:235:ILE:CA	2.52	0.40
16:P:472:ARG:HG3	16:P:473:LYS:N	2.37	0.40
1:A:132:GLU:OE1	1:A:188:TYR:CZ	2.74	0.40
1:A:711:LYS:HE3	1:A:711:LYS:HB2	1.79	0.40
1:A:1012:LYS:HD2	1:A:1198:THR:O	2.22	0.40
1:A:1478:ALA:C	1:A:1480:THR:H	2.24	0.40
2:B:290:ASP:HB3	2:B:577:PHE:CZ	2.56	0.40
2:B:491:ILE:CD1	2:B:1037:ARG:HE	2.34	0.40
2:B:658:LEU:HA	2:B:658:LEU:HD23	1.77	0.40
2:B:883:GLU:OE1	2:B:883:GLU:HA	2.21	0.40
2:B:1127:CYS:SG	2:B:1163:GLN:HG3	2.62	0.40
7:G:83:GLY:O	7:G:123:TYR:N	2.28	0.40
8:H:8:ASP:N	8:H:57:VAL:O	2.44	0.40
8:H:82:PRO:O	8:H:83:GLN:HG3	2.22	0.40
8:H:145:ARG:HG2	8:H:146:ARG:N	2.36	0.40
13:M:109:ARG:CG	13:M:110:GLY:N	2.80	0.40
15:O:5:UNK:O	15:O:6:UNK:CB	2.66	0.40
15:O:375:PHE:CE1	15:O:380:MET:CB	2.61	0.40
15:O:440:HIS:O	15:O:440:HIS:CG	2.74	0.40
15:O:535:VAL:CG1	15:O:552:LEU:HB2	2.51	0.40
15:O:623:LEU:HD13	15:O:668:SER:C	2.30	0.40
15:O:659:LEU:CD1	15:O:659:LEU:N	2.69	0.40
16:P:385:PHE:O	16:P:388:THR:N	2.53	0.40
17:Q:282:SER:CA	17:Q:302:ARG:HG2	2.46	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%)	1340 (93%)	82 (6%)	23 (2%)	8 37
2	B	1172/1203 (97%)	1078 (92%)	71 (6%)	23 (2%)	6 32
3	C	304/335 (91%)	286 (94%)	13 (4%)	5 (2%)	8 37
4	D	55/137 (40%)	52 (94%)	3 (6%)	0	100 100
5	E	213/215 (99%)	203 (95%)	7 (3%)	3 (1%)	9 40
6	F	81/155 (52%)	73 (90%)	7 (9%)	1 (1%)	11 43
7	G	197/326 (60%)	182 (92%)	12 (6%)	3 (2%)	8 39
8	H	129/146 (88%)	123 (95%)	6 (5%)	0	100 100
9	I	63/125 (50%)	55 (87%)	6 (10%)	2 (3%)	3 22
10	J	67/70 (96%)	60 (90%)	6 (9%)	1 (2%)	8 39
11	K	101/142 (71%)	94 (93%)	7 (7%)	0	100 100
12	L	43/70 (61%)	38 (88%)	4 (9%)	1 (2%)	5 29
13	M	104/415 (25%)	97 (93%)	5 (5%)	2 (2%)	6 33
14	N	156/233 (67%)	129 (83%)	21 (14%)	6 (4%)	2 20
15	O	581/894 (65%)	408 (70%)	111 (19%)	62 (11%)	0 6
16	P	473/514 (92%)	320 (68%)	74 (16%)	79 (17%)	0 2
17	Q	343/507 (68%)	234 (68%)	56 (16%)	53 (16%)	0 2
All	All	5527/7151 (77%)	4772 (86%)	491 (9%)	264 (5%)	3 17

All (264) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	408	LYS
1	A	411	VAL
1	A	416	ARG
1	A	530	TRP
1	A	592	GLN
1	A	595	LEU
1	A	721	LYS
1	A	722	PRO
1	A	723	TYR
1	A	912	VAL
1	A	920	PHE
2	B	91	LEU
2	B	117	VAL
2	B	341	SER
2	B	342	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	B	812	ALA
2	B	815	ARG
2	B	819	ASP
2	B	1139	LYS
2	B	1140	LYS
2	B	1163	GLN
3	C	147	PRO
3	C	148	LYS
7	G	94	PRO
9	I	37	TYR
9	I	39	LYS
14	N	25	ILE
14	N	26	PRO
14	N	27	ASP
14	N	94	ASP
14	N	95	ILE
15	O	194	ARG
15	O	198	ASP
15	O	211	GLY
15	O	224	THR
15	O	273	ARG
15	O	274	ILE
15	O	298	ASP
15	O	303	VAL
15	O	311	ASP
15	O	357	LEU
15	O	360	TRP
15	O	394	VAL
15	O	433	VAL
15	O	486	ALA
15	O	574	TRP
15	O	615	ASN
15	O	666	SER
15	O	707	ASP
15	O	726	SER
15	O	728	GLN
15	O	748	GLU
16	P	34	VAL
16	P	56	ILE
16	P	65	ASN
16	P	74	GLN
16	P	78	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
16	P	81	LEU
16	P	96	ILE
16	P	126	PRO
16	P	148	PRO
16	P	149	GLN
16	P	175	PRO
16	P	198	ILE
16	P	199	LEU
16	P	201	LYS
16	P	206	GLN
16	P	208	PRO
16	P	211	TYR
16	P	212	VAL
16	P	217	GLY
16	P	218	SER
16	P	225	GLN
16	P	276	PHE
16	P	290	THR
16	P	297	ARG
16	P	320	PHE
16	P	336	GLU
16	P	342	THR
16	P	344	THR
16	P	358	PRO
16	P	370	SER
16	P	388	THR
16	P	418	PRO
16	P	436	LEU
16	P	492	ALA
16	P	493	ILE
16	P	495	LYS
17	Q	34	ILE
17	Q	132	GLU
17	Q	140	ILE
17	Q	144	VAL
17	Q	153	ASN
17	Q	155	GLN
17	Q	156	LYS
17	Q	159	TYR
17	Q	210	THR
17	Q	211	ARG
17	Q	217	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	Q	243	PRO
17	Q	247	ILE
17	Q	265	SER
17	Q	267	GLY
17	Q	285	VAL
17	Q	299	THR
17	Q	302	ARG
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	407	GLN
1	A	531	PRO
1	A	594	THR
2	B	75	ASP
2	B	77	LYS
2	B	79	LEU
2	B	820	PRO
2	B	821	ILE
5	E	130	ALA
7	G	95	LEU
14	N	125	ALA
15	O	196	TYR
15	O	301	GLN
15	O	316	ALA
15	O	345	ASP
15	O	347	LEU
15	O	354	PRO
15	O	410	ASP
15	O	586	LYS
15	O	618	ASP
15	O	656	HIS
15	O	706	GLU
15	O	710	GLY
15	O	725	VAL
15	O	735	GLU
15	O	736	ILE
16	P	8	PRO
16	P	54	GLY
16	P	57	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
16	P	128	GLU
16	P	261	ALA
16	P	295	THR
16	P	299	SER
16	P	337	SER
16	P	339	THR
16	P	340	GLN
16	P	345	SER
17	Q	9	THR
17	Q	137	SER
17	Q	150	GLN
17	Q	216	LEU
17	Q	301	SER
17	Q	387	ASN
17	Q	391	ASP
17	Q	396	ASP
1	A	583	ASN
1	A	593	PRO
1	A	671	GLN
1	A	921	PRO
1	A	1479	ASP
2	B	113	VAL
2	B	115	SER
2	B	187	SER
2	B	435	GLY
5	E	128	PRO
5	E	129	PRO
13	M	46	SER
15	O	222	GLN
15	O	325	SER
15	O	346	ASN
15	O	355	GLU
15	O	751	SER
16	P	45	GLU
16	P	72	SER
16	P	91	LYS
16	P	94	LYS
16	P	150	GLU
16	P	155	GLN
16	P	156	LEU
16	P	197	GLU
16	P	223	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
16	P	248	SER
16	P	260	CYS
16	P	316	TRP
16	P	355	VAL
16	P	371	GLU
16	P	420	ASP
16	P	435	GLN
17	Q	146	SER
17	Q	154	LYS
17	Q	228	ASN
17	Q	339	ASN
17	Q	397	ARG
2	B	93	ASN
2	B	784	ASP
2	B	828	GLY
2	B	891	GLU
3	C	152	ASP
7	G	30	GLU
12	L	69	ALA
15	O	197	ARG
15	O	258	SER
15	O	259	ASN
15	O	398	ALA
15	O	409	ASP
15	O	651	SER
15	O	659	LEU
15	O	714	PHE
16	P	42	ASN
16	P	73	SER
16	P	249	CYS
16	P	264	PRO
16	P	402	MET
16	P	496	GLU
17	Q	295	PRO
17	Q	303	THR
17	Q	340	ASP
17	Q	388	LYS
1	A	922	CYS
3	C	144	PRO
10	J	42	LYS
15	O	240	SER
15	O	299	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
15	O	617	HIS
16	P	5	ILE
16	P	147	GLN
16	P	247	ILE
17	Q	135	GLU
17	Q	145	SER
17	Q	148	ASN
17	Q	204	GLU
17	Q	248	LYS
17	Q	284	PHE
17	Q	287	ASN
17	Q	383	PHE
1	A	630	GLY
1	A	789	SER
15	O	432	PRO
15	O	655	SER
16	P	93	LYS
16	P	403	THR
16	P	417	PHE
17	Q	354	LEU
17	Q	357	PRO
13	M	32	ALA
16	P	200	PRO
17	Q	384	VAL
15	O	649	ILE
16	P	219	ILE
16	P	360	LYS
1	A	913	PRO
3	C	153	PRO
6	F	131	PRO
15	O	261	VAL
15	O	569	VAL
15	O	691	VAL
15	O	713	ILE
15	O	727	PRO
15	O	750	PRO
15	O	766	GLY
17	Q	175	ILE
16	P	263	PRO

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	1292/1465 (88%)	1277 (99%)	15 (1%)	67 79
2	B	1030/1053 (98%)	1009 (98%)	21 (2%)	50 69
3	C	270/296 (91%)	269 (100%)	1 (0%)	89 91
4	D	56/116 (48%)	56 (100%)	0	100 100
5	E	197/197 (100%)	196 (100%)	1 (0%)	86 90
6	F	73/137 (53%)	73 (100%)	0	100 100
7	G	179/291 (62%)	175 (98%)	4 (2%)	47 66
8	H	117/128 (91%)	116 (99%)	1 (1%)	75 83
9	I	57/110 (52%)	57 (100%)	0	100 100
10	J	64/65 (98%)	64 (100%)	0	100 100
11	K	93/130 (72%)	92 (99%)	1 (1%)	70 80
12	L	40/57 (70%)	40 (100%)	0	100 100
13	M	96/371 (26%)	92 (96%)	4 (4%)	25 48
14	N	146/220 (66%)	143 (98%)	3 (2%)	48 67
15	O	545/778 (70%)	496 (91%)	49 (9%)	8 25
16	P	445/476 (94%)	379 (85%)	66 (15%)	2 13
17	Q	331/474 (70%)	276 (83%)	55 (17%)	2 11
All	All	5031/6364 (79%)	4810 (96%)	221 (4%)	26 47

All (221) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	377	VAL
1	A	409	ASP
1	A	411	VAL
1	A	413	LEU
1	A	414	GLU
1	A	415	ASP
1	A	466	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	530	TRP
1	A	591	ARG
1	A	592	GLN
1	A	721	LYS
1	A	912	VAL
1	A	920	PHE
1	A	1089	LEU
1	A	1161	VAL
2	B	86	SER
2	B	90	TYR
2	B	91	LEU
2	B	93	ASN
2	B	95	LEU
2	B	111	ASP
2	B	113	VAL
2	B	114	SER
2	B	300	SER
2	B	487	VAL
2	B	547	HIS
2	B	696	ILE
2	B	814	ASN
2	B	817	ARG
2	B	819	ASP
2	B	959	THR
2	B	1046	VAL
2	B	1174	THR
2	B	1194	ILE
2	B	1195	ARG
2	B	1196	LEU
3	C	152	ASP
5	E	196	VAL
7	G	39	VAL
7	G	95	LEU
7	G	96	SER
7	G	100	THR
8	H	65	LEU
11	K	59	THR
13	M	46	SER
13	M	47	GLU
13	M	48	LYS
13	M	66	THR
14	N	25	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
14	N	94	ASP
14	N	95	ILE
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	222	GLN
15	O	234	THR
15	O	237	GLU
15	O	259	ASN
15	O	274	ILE
15	O	292	LEU
15	O	299	ASP
15	O	300	LEU
15	O	301	GLN
15	O	312	LEU
15	O	344	ILE
15	O	345	ASP
15	O	350	THR
15	O	364	GLU
15	O	430	ASN
15	O	431	ASP
15	O	439	LYS
15	O	485	LYS
15	O	568	ILE
15	O	583	GLU
15	O	584	ARG
15	O	615	ASN
15	O	618	ASP
15	O	642	GLN
15	O	654	LEU
15	O	659	LEU
15	O	661	ASN
15	O	662	LEU
15	O	666	SER
15	O	667	ASP
15	O	671	SER
15	O	672	ILE
15	O	690	ASP
15	O	691	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
15	O	705	HIS
15	O	712	ASP
15	O	738	LYS
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	34	VAL
16	P	57	THR
16	P	58	ARG
16	P	60	LEU
16	P	63	THR
16	P	77	ASN
16	P	91	LYS
16	P	93	LYS
16	P	129	PHE
16	P	147	GLN
16	P	150	GLU
16	P	152	LEU
16	P	154	LEU
16	P	156	LEU
16	P	179	CYS
16	P	180	ASP
16	P	183	LYS
16	P	206	GLN
16	P	215	LEU
16	P	223	ASN
16	P	225	GLN
16	P	226	LEU
16	P	259	GLN
16	P	273	VAL
16	P	279	THR
16	P	282	ARG
16	P	283	ASN
16	P	287	TRP
16	P	297	ARG
16	P	312	LEU
16	P	339	THR
16	P	340	GLN
16	P	341	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
16	P	348	ILE
16	P	355	VAL
16	P	356	VAL
16	P	360	LYS
16	P	367	PHE
16	P	369	TRP
16	P	371	GLU
16	P	385	PHE
16	P	386	LEU
16	P	388	THR
16	P	389	GLN
16	P	399	SER
16	P	400	MET
16	P	401	GLU
16	P	402	MET
16	P	403	THR
16	P	404	ILE
16	P	419	LEU
16	P	420	ASP
16	P	422	GLU
16	P	434	HIS
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
16	P	495	LYS
16	P	496	GLU
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	32	ASP
17	Q	33	ARG
17	Q	123	GLU
17	Q	132	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	Q	133	LYS
17	Q	135	GLU
17	Q	138	PHE
17	Q	139	GLU
17	Q	142	ARG
17	Q	145	SER
17	Q	147	GLN
17	Q	149	LYS
17	Q	153	ASN
17	Q	155	GLN
17	Q	160	HIS
17	Q	168	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	216	LEU
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	278	TYR
17	Q	279	SER
17	Q	284	PHE
17	Q	290	TYR
17	Q	298	GLN
17	Q	303	THR
17	Q	317	LEU
17	Q	342	LEU
17	Q	364	VAL
17	Q	365	TRP
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

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	Q	393	ILE
17	Q	397	ARG
17	Q	398	ASP
17	Q	410	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (106) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	40	ASN
1	A	43	HIS
1	A	60	ASN
1	A	224	HIS
1	A	235	ASN
1	A	264	ASN
1	A	332	GLN
1	A	336	GLN
1	A	340	HIS
1	A	344	ASN
1	A	432	ASN
1	A	470	HIS
1	A	489	ASN
1	A	535	GLN
1	A	580	HIS
1	A	592	GLN
1	A	620	ASN
1	A	636	HIS
1	A	639	GLN
1	A	656	GLN
1	A	738	ASN
1	A	863	ASN
1	A	926	GLN
1	A	993	GLN
1	A	998	HIS
1	A	1020	GLN
1	A	1026	GLN
1	A	1108	HIS
1	A	1293	HIS
1	A	1319	ASN
1	A	1320	GLN
1	A	1633	GLN
1	A	1647	ASN
2	B	128	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	B	183	HIS
2	B	248	ASN
2	B	295	ASN
2	B	328	GLN
2	B	368	GLN
2	B	398	GLN
2	B	399	HIS
2	B	462	GLN
2	B	555	GLN
2	B	575	HIS
2	B	816	ASN
2	B	975	HIS
2	B	979	GLN
2	B	1010	ASN
2	B	1163	GLN
3	C	161	HIS
3	C	297	HIS
3	C	335	GLN
4	D	30	HIS
5	E	5	ASN
5	E	32	GLN
5	E	113	GLN
5	E	179	GLN
7	G	20	HIS
7	G	32	ASN
7	G	36	ASN
7	G	56	ASN
7	G	64	GLN
7	G	65	HIS
7	G	67	ASN
7	G	119	HIS
7	G	126	GLN
8	H	83	GLN
8	H	133	ASN
12	L	53	HIS
13	M	75	GLN
14	N	51	GLN
14	N	103	ASN
14	N	132	GLN
14	N	170	HIS
15	O	215	ASN
15	O	230	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
15	O	232	ASN
15	O	239	HIS
15	O	267	ASN
15	O	301	GLN
15	O	368	HIS
15	O	401	ASN
15	O	461	HIS
15	O	479	HIS
15	O	556	GLN
15	O	579	ASN
15	O	624	GLN
15	O	701	HIS
16	P	71	GLN
16	P	79	GLN
16	P	82	GLN
16	P	89	HIS
16	P	109	GLN
16	P	206	GLN
16	P	209	ASN
16	P	225	GLN
16	P	272	GLN
16	P	486	GLN
17	Q	155	GLN
17	Q	212	HIS
17	Q	221	HIS
17	Q	287	ASN
17	Q	289	ASN
17	Q	304	HIS
17	Q	385	ASN
17	Q	390	ASN

5.3.3 RNA

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 7 ligands modelled in this entry, 7 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	2

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
1	O	28:UNK	C	41:UNK	N	6.55

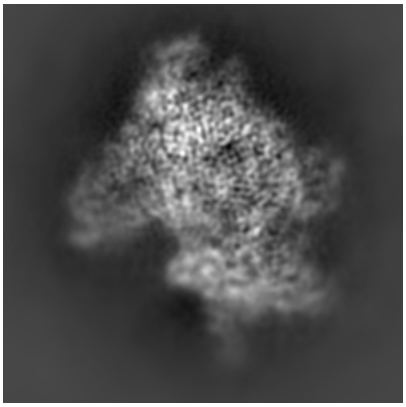
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-8775. These allow visual inspection of the internal detail of the map and identification of artifacts.

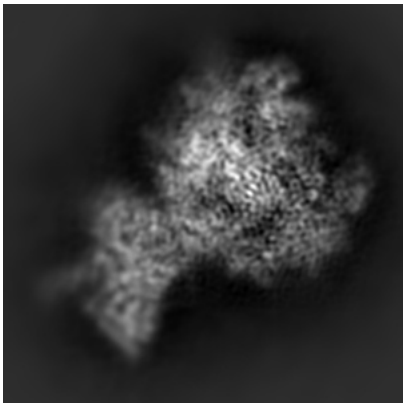
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

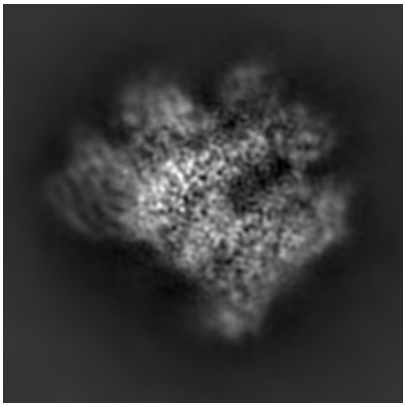
6.1.1 Primary map



X



Y

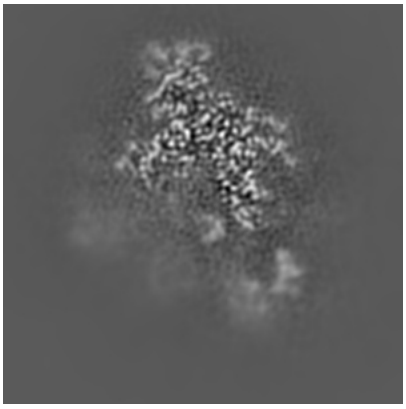


Z

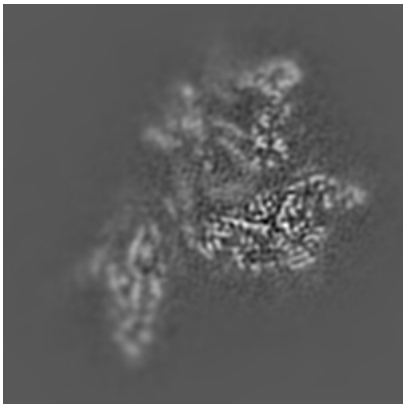
The images above show the map projected in three orthogonal directions.

6.2 Central slices

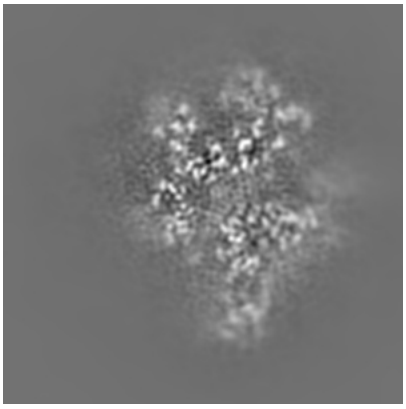
6.2.1 Primary map



X Index: 96



Y Index: 96

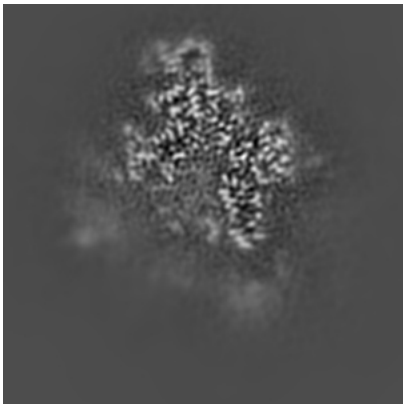


Z Index: 96

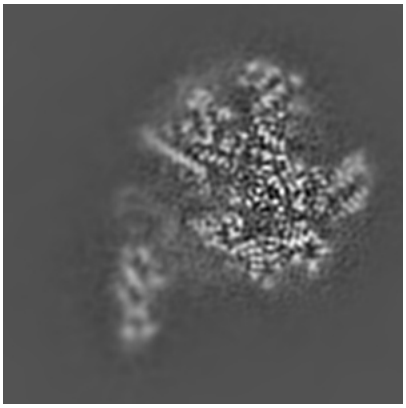
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

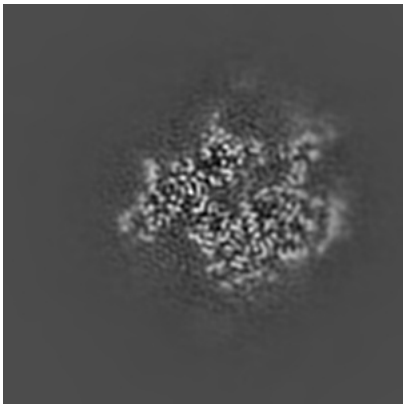
6.3.1 Primary map



X Index: 100



Y Index: 87

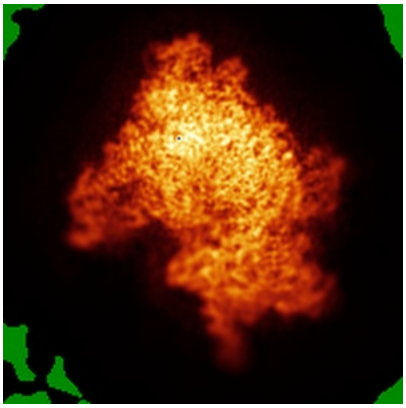


Z Index: 127

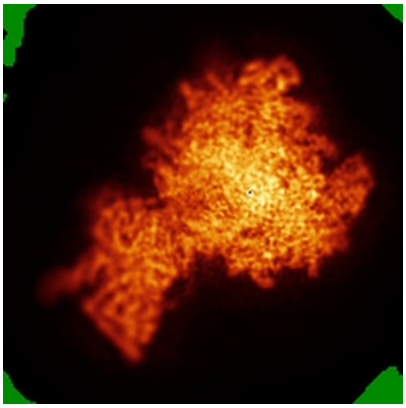
The images above show the largest variance slices of the map in three orthogonal directions.

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

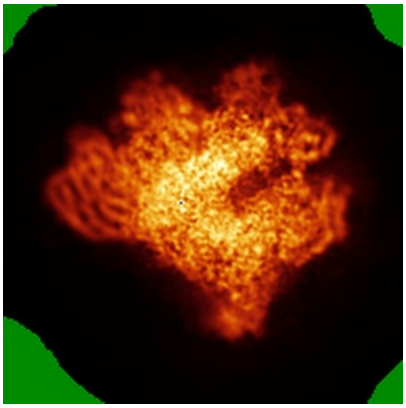
6.4.1 Primary map



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.

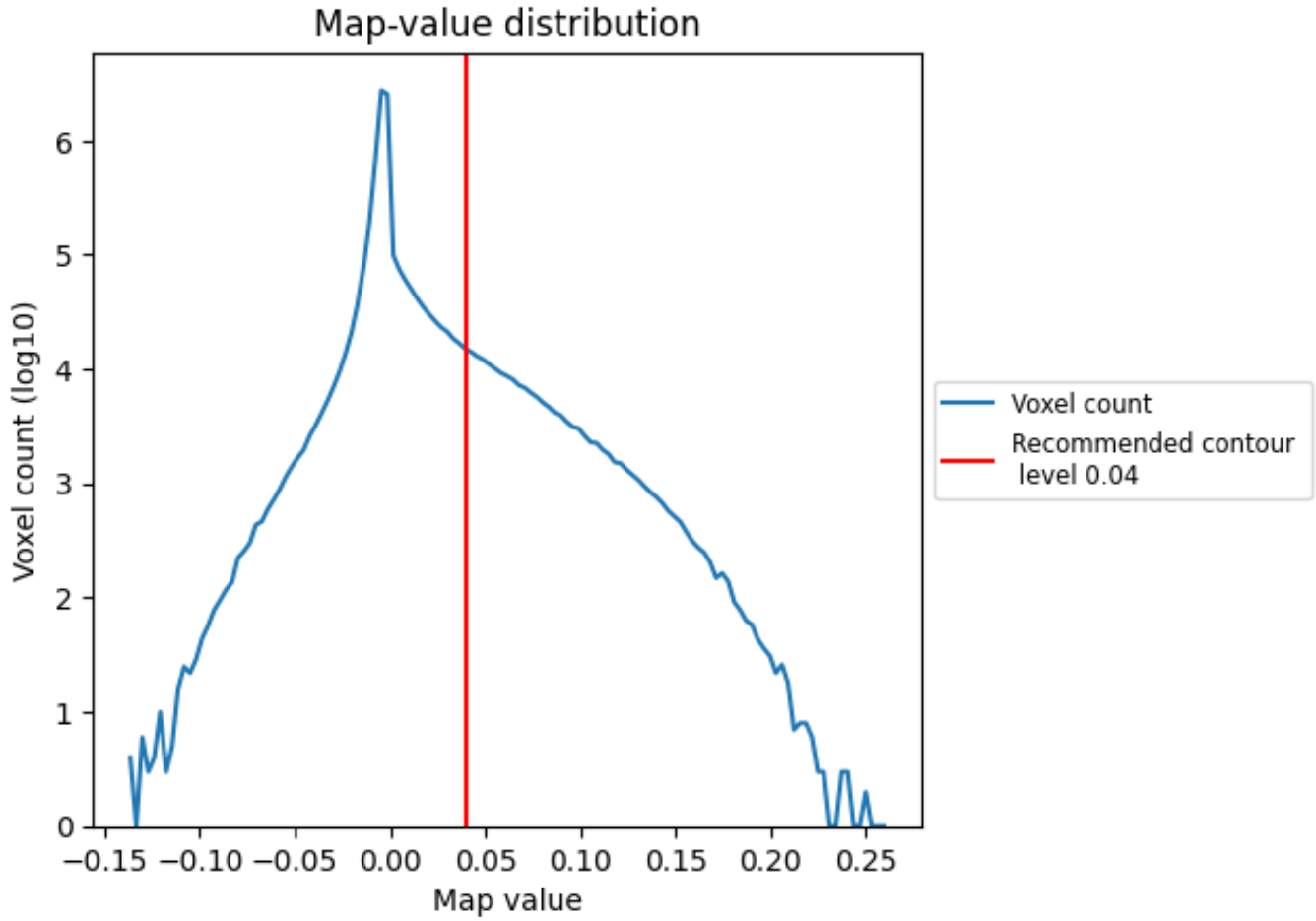
6.6 Mask visualisation (i)

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

7 Map analysis

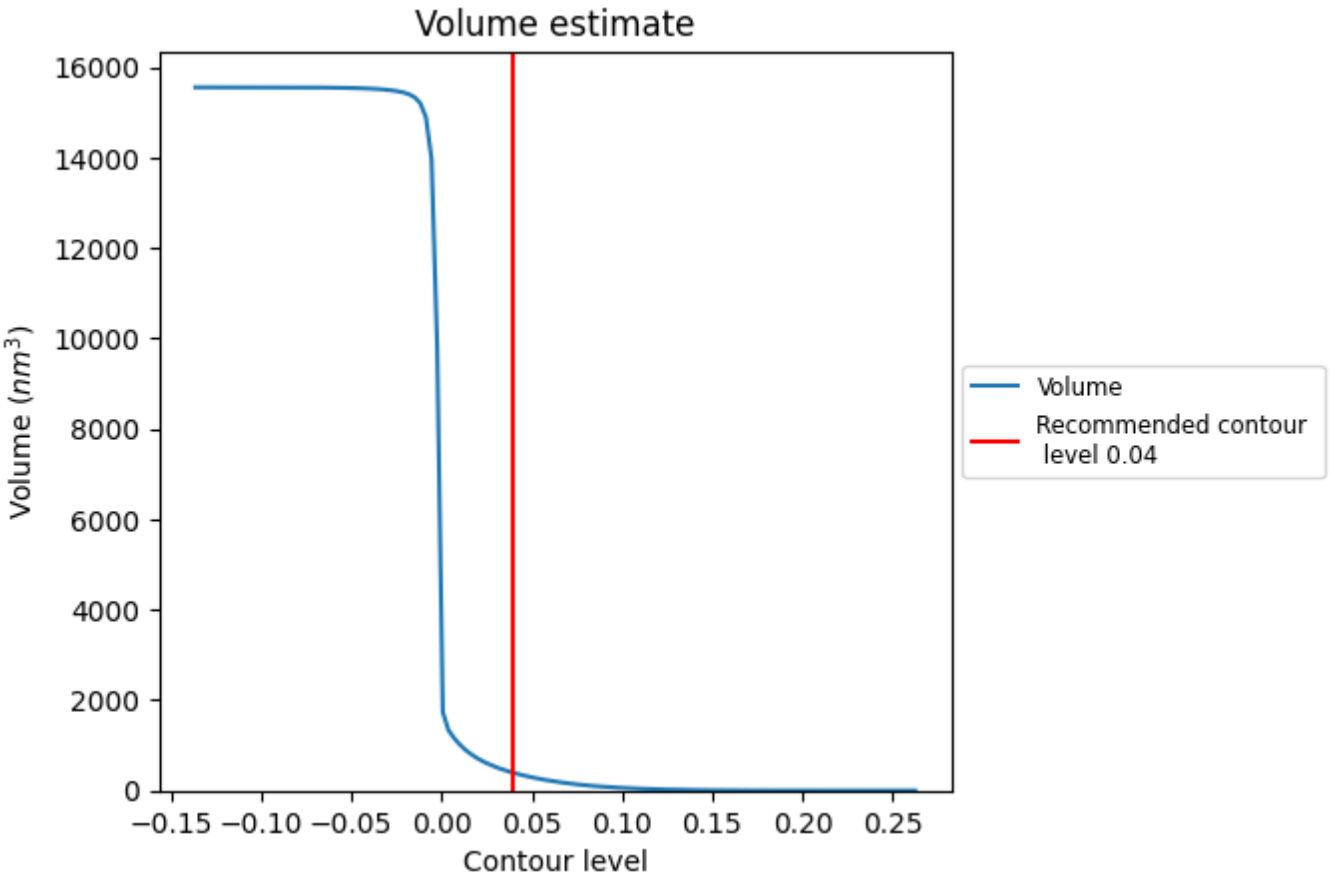
This section contains the results of statistical analysis of the map.

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.

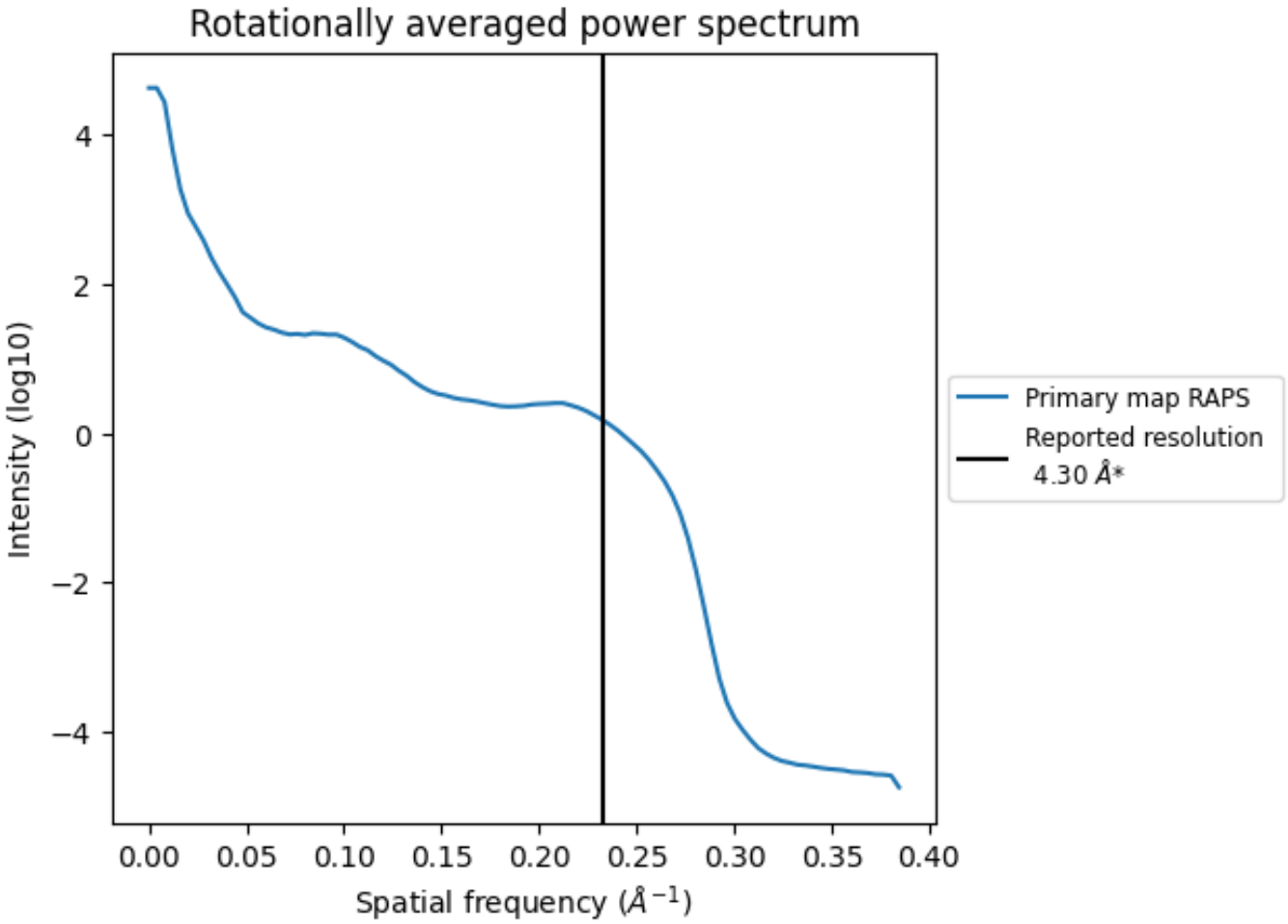
7.2 Volume estimate



The volume at the recommended contour level is 390 nm^3; this corresponds to an approximate mass of 352 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)

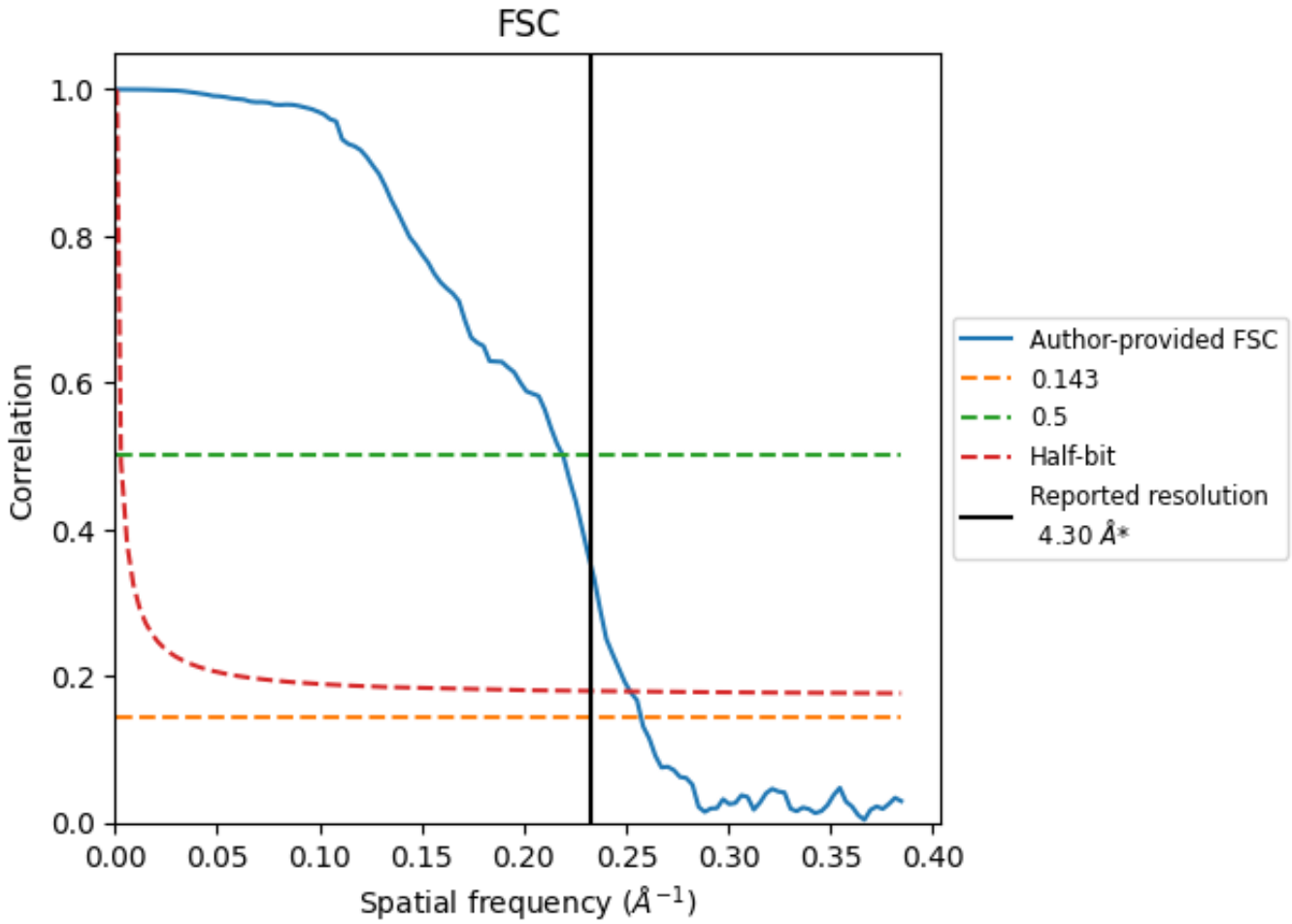


*Reported resolution corresponds to spatial frequency of 0.233 Å^{-1}

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 0.233 Å^{-1}

8.2 Resolution estimates (i)

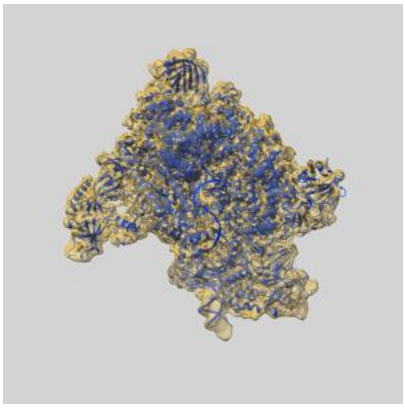
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.30	-	-
Author-provided FSC curve	3.89	4.56	3.97
Unmasked-calculated*	-	-	-

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

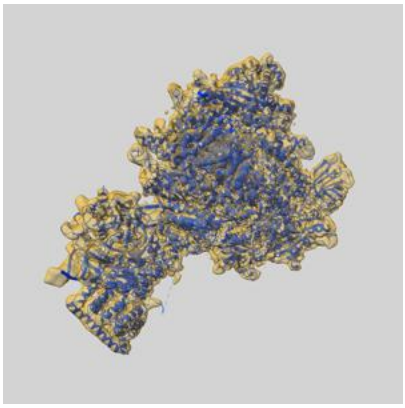
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-8775 and PDB model 5W65. Per-residue inclusion information can be found in section 3 on page 9.

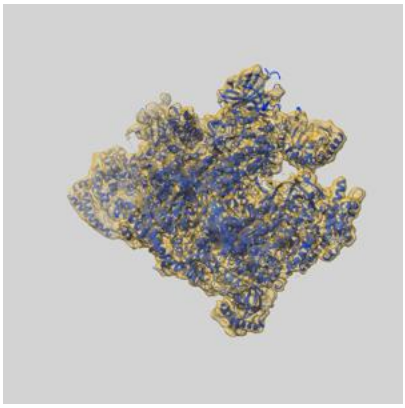
9.1 Map-model overlay



X



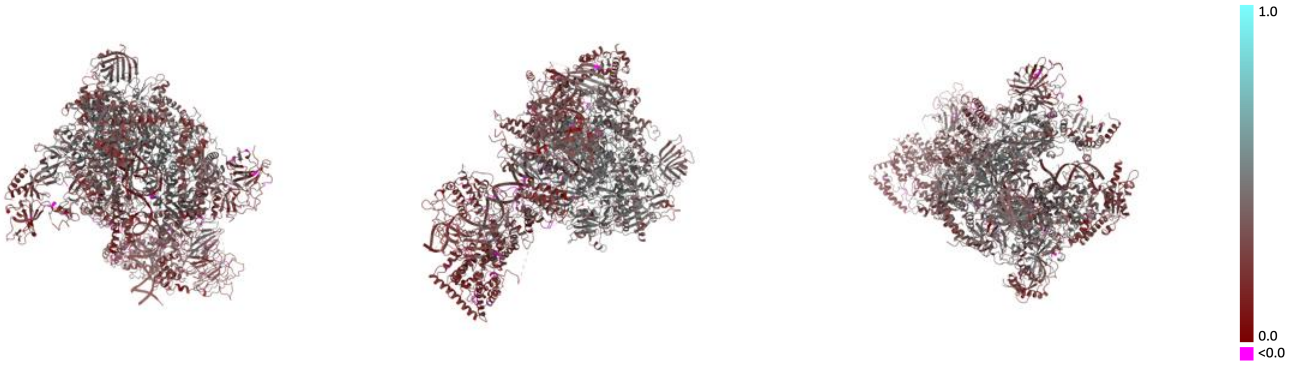
Y



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.

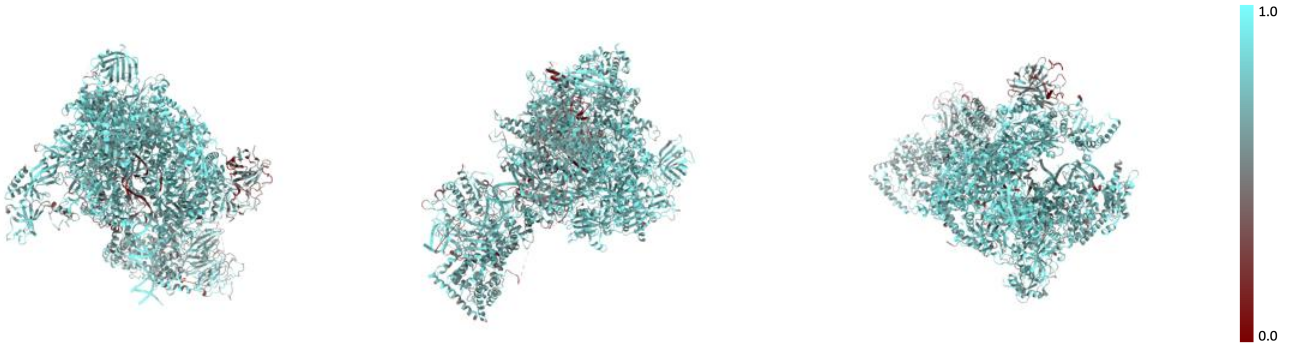
9.2 Q-score mapped to coordinate model



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.

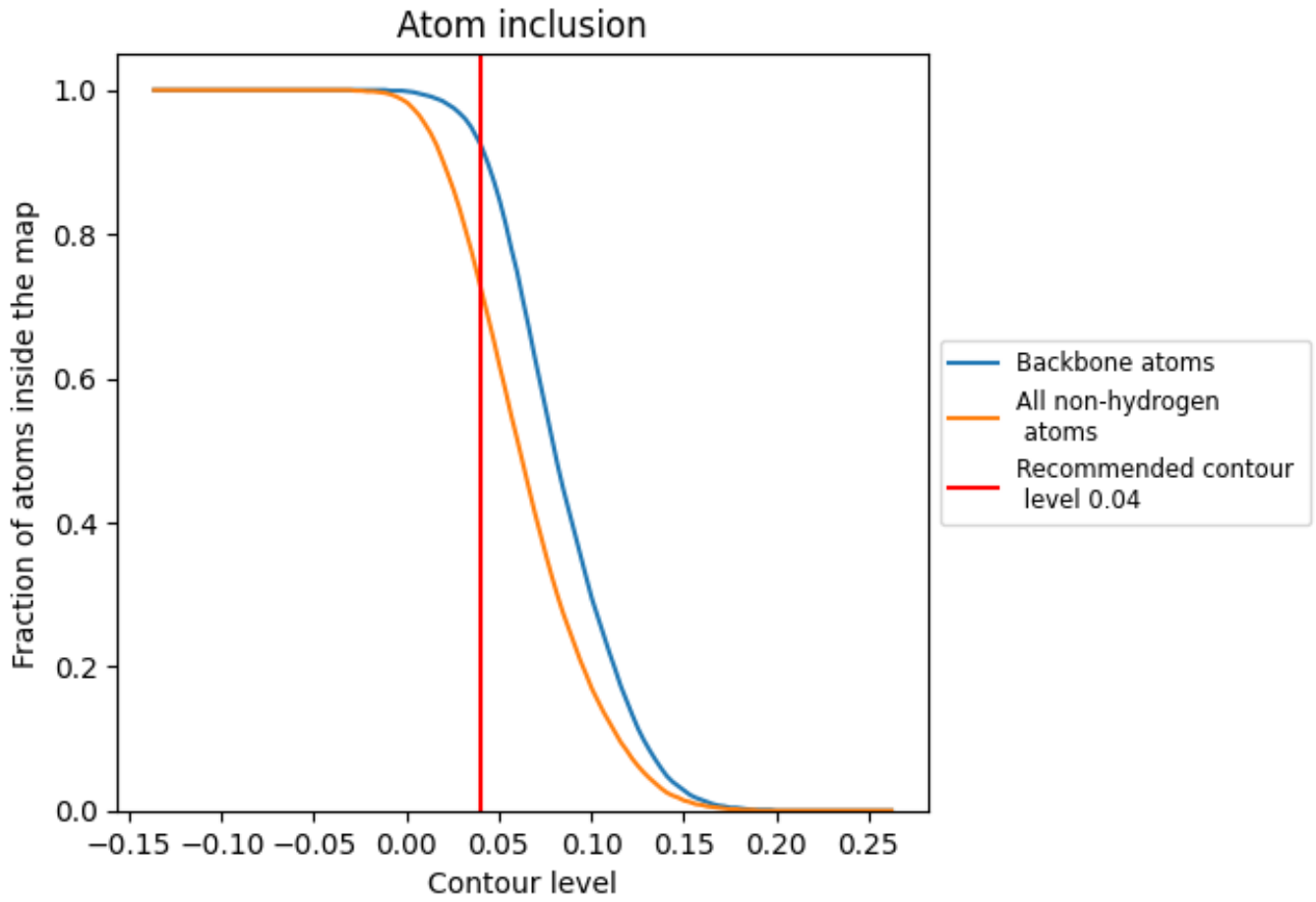
9.3 Atom inclusion mapped to coordinate model



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, 92% of all backbone atoms, 73% 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	0.7280	0.3360
A	0.7790	0.3860
B	0.7960	0.4230
C	0.8230	0.4070
D	0.6870	0.2640
E	0.7660	0.3280
F	0.8210	0.4130
G	0.7170	0.2790
H	0.7950	0.3690
I	0.7000	0.3270
J	0.8440	0.4440
K	0.7700	0.3980
L	0.8090	0.4350
M	0.5360	0.2680
N	0.4700	0.2770
O	0.6650	0.2350
P	0.5810	0.1930
Q	0.6560	0.2550
R	0.1180	0.1490
S	0.7560	0.2550
T	0.6540	0.2300