



## Full wwPDB EM Validation Report ⓘ

Nov 5, 2022 – 04:57 PM EDT

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](mailto: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.dev43  
MolProbity : 4.02b-467  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.9  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.31.2

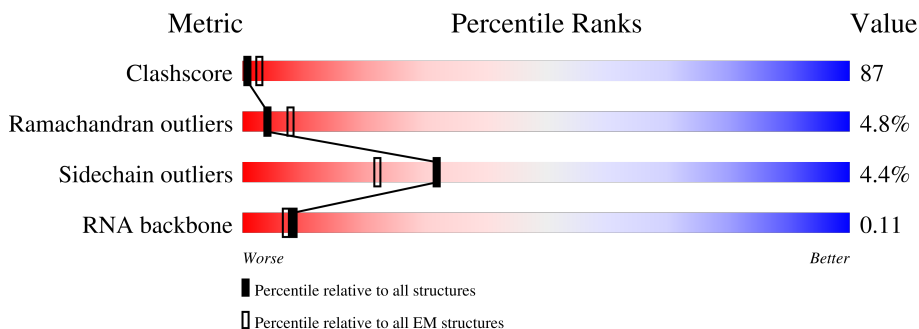
# 1 Overall quality at a glance

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.





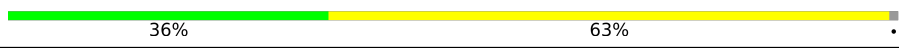
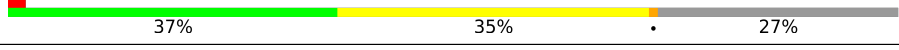
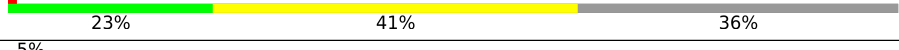


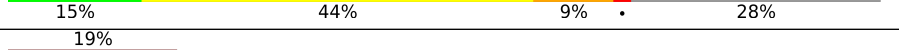
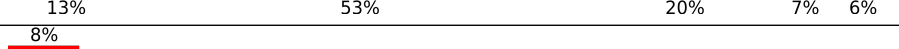
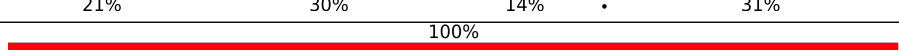

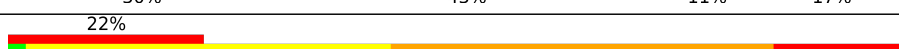
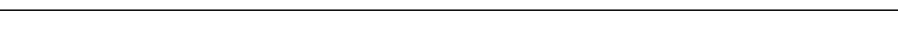
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826
RNA backbone	4643	859

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  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion  $< 40\%$ ). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	1664	
2	B	1203	
3	C	335	
4	D	137	
5	E	215	
6	F	155	
7	G	326	

*Continued on next page...*

Continued from previous page...

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

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

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
			Total	C	N	O	S		
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
			Total	C	N	O	S		
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
			Total	C	N	O	S		
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
			Total	C	N	O	S		
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
			Total	C	N	O	S		
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
			Total	C	N	O	S		
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
			Total	C	N	O		
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
			Total	C	N	O	S		
14	N	158	1254	799	205	246	4	0	0

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

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

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
			Total	C	N	O	S		
16	P	481	3978	2553	681	722	22	0	0

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

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

- Molecule 18 is a RNA chain called RNA.

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

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

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
19	S	45	935	447	174	270	44	0	0

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

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

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

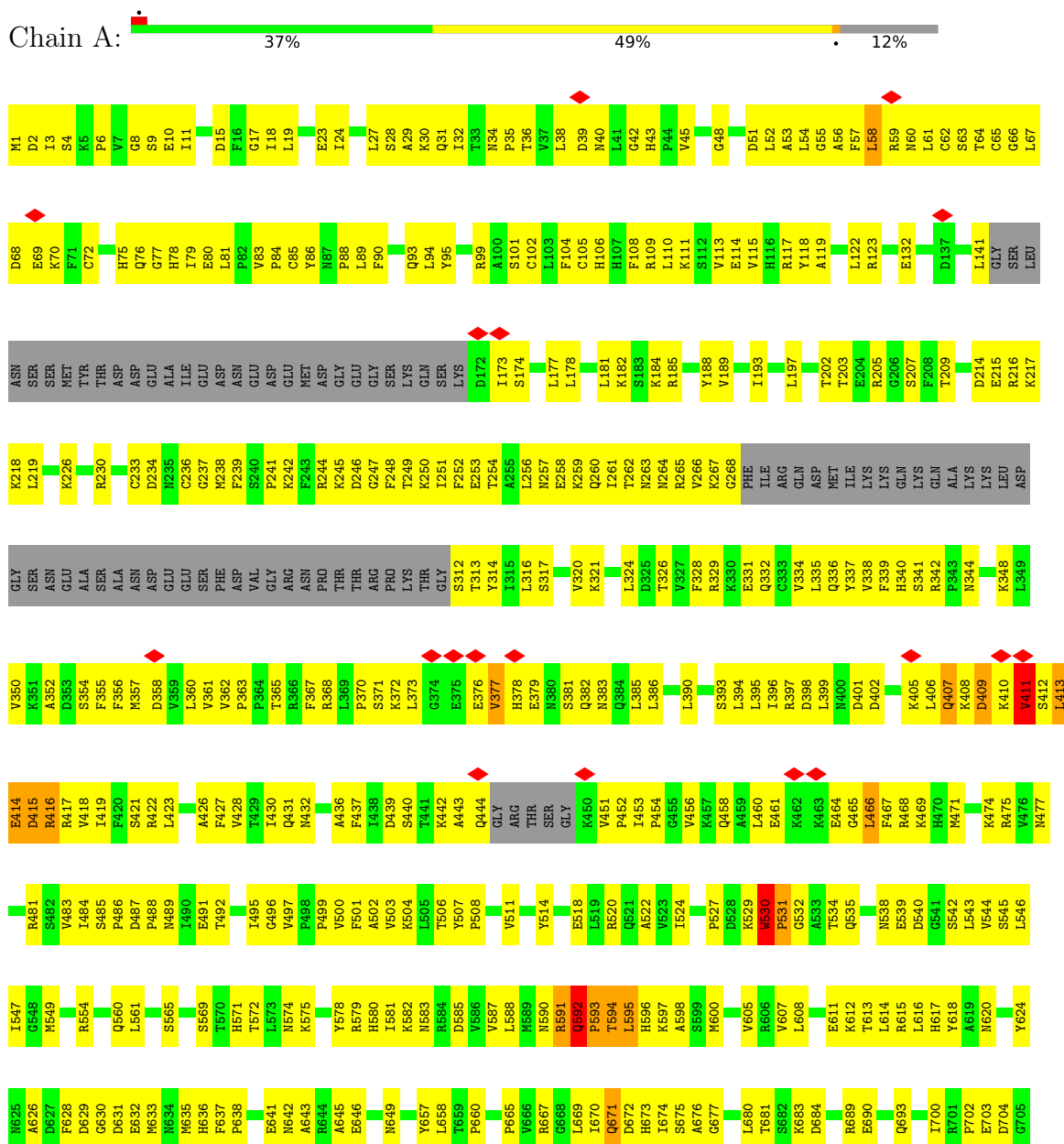
Mol	Chain	Residues	Atoms		AltConf
21	A	2	Total 2	Zn 2	0
21	B	1	Total 1	Zn 1	0
21	I	1	Total 1	Zn 1	0
21	J	1	Total 1	Zn 1	0
21	L	1	Total 1	Zn 1	0
21	P	1	Total 1	Zn 1	0



### 3 Residue-property plots

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

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



H706	H707	H708	K711	K712	P717	T718	I719	I720	K721	H722	H723	H724	L725	H726	H727	H728	K729	Q730	I731	I732	T733	T734	V735	N738	P741	P742	D743	G746	I747	N748	M749	K752	N753	K754	I755	K756	N757	K762	G763	E766	N767	F771	K772	D773	G774	A775	L776	I780	L781									
D782	K783	S784	Q785	Y786	S789	K790	Y791	G792	I793	H794	H795	S796	H799	V800	Y801	V805	L813	F817	I731	T732	T733	T734	H819	Y820	N821	T824	A825	F826	T827	C828	G829	M830	N748	D831	L749	D832	W842	K843	T844	D845	L846	L847	K848	T853	G854	R855	N856	A857	G948	Q949	Q950	T1024	A951	L952	E953	K866	D867	T868
D872	P873	E874	R878	L879	I882	L883	R884	D885	H886	H887	K888	L892	D893	Y801	V805	V805	V908	S909	I731	I732	T733	T734	H819	Y820	N821	T824	A825	F826	T827	C828	G829	M830	N748	D831	L749	D832	W842	K843	T844	D845	L846	L847	K848	T853	G854	R855	N856	A857	G948	Q949	Q950	T1024	A951	L952	E953	K866	D867	T868
Y957	P958	Y959	Y960	K964	T965	L966	P967	F969	E973	F974	D975	A978	G979	G980	H981	Y982	G983	G984	R985	S988	G989	Q993	E994	Y995	Y996	F997	H998	C999	M1000	R1003	L1006	I1007	V1011	K1012	T1013	S1014	R1015	G1017	Y1018	L1019	Q1020	G948	Q949	Q950	T1024	A951	L952	E953	K866	D867	T868							
V1030	H1031	V1032	S1033	D1035	I1038	R1039	D1040	A1041	L1045	V1046	Q1047	F1048	M1049	Y1050	G1051	G1052	D1053	I1055	I1057	E1060	S1061	H1062	E994	Y995	F997	H998	C999	M1000	R1003	L1006	I1007	V1011	K1012	T1013	S1014	R1015	G1017	Y1018	L1019	Q1020	G948	Q949	Q950	T1024	A951	L952	E953	K866	D867	T868								
K1103	Y1104	R1105	K1106	S1109	LYS	GLU	P1112	H1113	Y1114	K1115	G1116	S1117	V1118	K1119	Y1120	D1121	V1123	L1124	Y1127	N1128	P1129	A1130	K1131	Y1132	E994	Y995	F997	H998	C999	M1000	R1003	L1006	I1007	V1011	K1012	T1013	S1014	R1015	G1017	Y1018	L1019	Q1020	G948	Q949	Q950	T1024	A951	L952	E953	K866	D867	T868						
K1173	Y1174	M1175	R1176	S1177	L1178	I1179	N1180	E1183	A1184	V1185	G1186	I1187	I1188	A1189	S1190	G1194	T1198	Q1199	M1200	THR	LEU	ASN	THR	PHE	HIS	PHE	ALA	GLY	HIS	GLY	ALA	ALA	N1214	V1215	T1216	T1217	G1218	P1220	R1221	L1222	R1223	E1224	I1225	V1226	M1227	T1228	A1229	I1233	K1234	K1164	T1235	P1236	L1240	P1241				
I1242	W1243	V1246	F1254	C1255	K1256	S1257	L1258	S1259	V1261	L1262	S1263	A1264	I1265	V1266	I1267	D1268	V1270	I1271	V1272	T1276	GLY	THR	PRO	ASP	ILE	THR	VAL	ALA	GLY	ALA	ASN	ALA	A1286	R1288	S1289	Y1290	V1291	I1292	H1293	M1294	F1296	F1297	D1298	N1299	M1300	E1301	Y1302	S1303	I1304	E1305	V1306	P1307	V1308	K1310				
E1311	E1312	L1313	Q1314	M1315	L1317	S1316	M1319	Q1320	F1321	I1322	H1323	E1326	A1327	A1328	E1332	K1335	Q1336	K1337	ARG	THR	THR	GLY	PRO	ASP	ILE	GLY	VAL	ALA	VAL	PRO	ARG	LEU	GLN	THR	ASP	VAL	VAL	ALA	ASN	ASN	SER	SER	SER	ASN	VAL	ASP	VAL	ASP	ASP	VAL	GLU	GLU	GLN	THR				
HIS	LYS	LYS	THR	LYS	GLN	ALA	VAL	SER	TYR	ASP	GLU	PRO	ASP	GLU	ASP	MET	ARG	GLU	ALA	GLU	LYS	SER	THR	ASP	GLU	ILE	ALA	VAL	PRO	ARG	LYS	GLU	SER	THR	ASP	VAL	VAL	ASN	ASN	SER	SER	SER	ASN	VAL	ASP	VAL	GLU	GLU	GLN	THR								
ALA	ASN	ASN	N1438	M1439	M1440	Q1443	R1444	Q1447	I1451	H1454	R1455	F1456	I1457	T1458	K1459	Y1460	M1461	F1462	D1463	D1464	E1465	S1466	G1467	K1468	Y1469	C1470	E1471	F1472	K1473	L1474	E1475	L1476	A1477	D1478	D1479	T1480	E1481	K1482	L1483	L1484	M1485	V1486	N1487	I1488	V1489	E1490	E1491	R1494	S1495	L1497	I1498	R1499	Q1500					
I1501	R1506	C1507	H1508	H1509	P1510	N1514	G1515	K1516	R1517	V1518	L1519	V1520	T1521	E1522	G1523	V1524	Q1527	A1528	H1529	W1530	D1531	Q1532	E1533	I1536	D1537	I1541	D1545	V1549	E1556	R1559	E1565	M1568	Y1569	F1570	S1571	R1572	Y1573	R1580	D1583	L1584	D1587	R1591	Y1595															
L1596	A1597	F1598	M1599	R1600	K1601	G1602	M1603	E1604	T1605	S1609	F1610	M1613	S1614	Y1615	E1616	F1617	T1618	C1619	L1622	T1623	L1627	D1628	N1629	E1630	R1631	E1632	Q1633	L1634	D1635	A1639	R1640	I1641	V1642	V1643	G1644	K1645	L1646	N1647	M1648	V1649	F1654	D1655	L1657	A1658	K1659	A1663	ALA											

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



Q979	D960	S981	I985	F986	N987	E988	P992	F996	Q999	L1000	A1001	K1002	A1003	G1004	Y1005	G1009	N1010	E1011	M1013	Y1014	S1015	G1016	E1021	D1025	I1026	Y1027	V1028	V1031	Y1032	I1033	Q1034	R1035	L1036	R1037	H1038	M1039	V1040	M1041	D1042	K1043	F1044	Q1045	V1046	R1047	S1048	T1049	G1050	P1051	V1052	N1053				
S842	D843	P846	Y847	I848	Y851	Y852	E853	E854	P857	L858	C859	A860	Y861	F862	D863	D864	N867	K868	T873	Y874	H875	S876	P879	A880	Y881	L882	E883	E884	L887	L888	Q889	D890	E891	S892	N893	K894	F895	Q896	E897	L898	Q899	T900	Y903	Y904	L905	R906	Y907	A978						
R909	T910	P911	Q912	R913	G914	D915	K916	R920	H921	G922	K924	G925	V926	C927	S928	R929	K930	N931	P932	T933	R934	O935	N936	P937	F938	S939	E940	T941	G942	I943	Q944	P945	D946	I947	I948	I949	N950	P951	H952	A953	F954	P955	S956	N957	T959	F963	Y964	E965	K970	L974	Y977	A978		
V772	V773	S777	Y778	T779	G780	Y781	D782	M783	D784	A785	A786	M787	N790	K791	S792	A793	D794	E795	R796	G797	F798	M803	Y804	K805	T806	D810	L811	A812	L813	N814	R815	N816	R817	G818	D818	P820	T821	T822	Q823	H824	F825	G826	F827	G828	N829	D830	E831	M832	K834	F835	M836	W836	L840	D841
N884	H888	V889	I896	L897	S898	G899	L900	A701	N702	P705	F709	N710	Q711	S712	N715	M716	Y717	Q718	C719	Q720	K723	Q724	T725	M726	V731	A732	L733	N649	L650	H655	L656	P657	D659	K660	V664	E668	Q669	N672	A675	V676	T677	P678	O679	E680	F681	Q682	N683	A771						
E523	C529	P530	V531	H532	G536	S537	P538	C539	G540	L541	L542	H547	K548	Q554	Q555	V558	I561	Q562	S563	L564	L565	Y566	S567	L568	G569	V570	A571	P572	A573	S574	H575	T576	F577	A578	P581	C585	I588	D589	F509	A510	Q511	L512	K513	G594	W595	Q600	I604	A605	D606					
M451	R452	N453	M454	E455	M456	S459	K460	M461	Q462	C463	F464	L465	C468	M469	L470	V471	S472	L478	Q479	Q480	V481	S482	G483	Y484	K490	L491	M492	F493	Y494	R495	F496	H499	F500	R501	M502	R505	G506	S507	L438	M439	A510	Q511	L512	K513	G594	W595	Q600	I604	A605	D606				
F371	R372	M373	L374	L375	F376	K377	K380	L384	V385	S390	Q398	E401	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							
Y229	Y232	Q235	R237	S238	V239	R240	P241	V242	Q243	T244	S245	Q246	T247	N248	V249	H251	Y252	L253	Q257	V258	T259	F260	R261	P177	Y178	Q182	H183	K184	E185	Y186	S187	D188	E189	I190	F194	K201	L202	I203	R204	R211	N212	I218	S221	N224	R225	G226	L138	L139	K140	L141	D296			
V297	K298	D299	S300	F301	R305	L306	E307	L308	R240	L309	L310	F311	G312	F313	K314	R315	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			
M451	R452	N453	M454	E455	M456	S459	K460	M461	Q462	C463	F464	L465	C468	M469	L470	V471	S472	L478	Q479	Q480	V481	S482	G483	Y484	K490	L491	M492	F493	Y494	R495	F496	H499	F500	R501	M502	R505	G506	S507	L438	M439	A510	Q511	L512	K513	G594	W595	Q600	I604	A605	D606				
E523	C529	P530	V531	H532	G536	S537	P538	C539	G540	L541	L542	H547	K548	Q554	Q555	V558	I561	Q562	S563	L564	L565	Y566	S567	L568	G569	V570	A571	P572	A573	S574	H575	T576	F577	A578	P581	C585	I588	D589	F509	A510	Q511	L512	K513	G594	W595	Q600	I604	A605	D606					
R609	K612	V613	E614	G615	K616	L620	P621	C539	I622	D623	T626	G627	Y628	V629	P630	F631	S632	L640	Q634	G635	O636	Y637	L640	L642	H646	S647	R648	N649	L650	H655	L656	P657	D659	K660	V664	E668	Q669	N672	A675	V676	T677	P678	O679	E680	F681	Q682	N683	A771						
N884	H888	V889	I896	L897	S898	G899	L900	A701	N702	P705	F709	N710	Q711	S712	N715	M716	Y717	Q718	C719	Q720	K723	Q724	T725	M726	V731	A732	L733	N649	L650	H655	L656	P657	D659	K660	V664	E668	Q669	N672	A675	V676	T677	P678	O679	E680	F681	Q682	N683	A771						
V772	V773	S777	Y778	T779	G780	Y781	D782	M783	D784	A785	A786	M787	N790	K791	S792	A793	D794	E795	R796	G797	F798	M803	Y804	K805	T806	D810	L811	A812	L813	N814	R815	N816	R817	G818	D818	P820	T821	T822	Q823	H824	F825	G826	F827	G828	N829	D830	E831	M832	K834	F835	M836	W836	L840	D841
S842	D843	P846	Y847	I848	Y851	Y852	E853	E854	P857	L858	C859	A860	Y861	F862	D863	D864	N867	K868	T873	Y874	H875	S876	P879	A880	Y881	L882	E883	E884	L887	L888	Q889	D890	E891	S892	N893	K894	F895	Q896	E897	L898	Q899	T900	Y903	Y904	L905	R906	Y907	A978						
R909	T910	P911	Q912	R913	G914	D915	K916	R920	H921	G922	K924	G925	V926	C927	S928	R929	K930	N931	P932	T933	R934	O935	N936	P937	F938	S939	E940	T941	G942	I943	Q944	P945	D946	I947	I948	I949	N950	P951	H952	A953	F954	P955	S956	N957	T959	F963	Y964	E965	K970	L974	Y977	A978		
Q979	D960	S981	I985	F986	N987	E988	P992	F996	Q999	L1000	A1001	K1002	A1003	G1004	Y1005	G1009	N1010	E1011	M1013	Y1014	S1015	G1016	E1021	D1025	I1026	Y1027	V1028	V1031	Y1032	I1033	Q1034	R1035	L1036	R1037	H1038	M1039	V1040	M1041	D1042	K1043	F1044	Q1045	V1046	R1047	S1048	T1049	G1050	P1051	V1052	N1053				



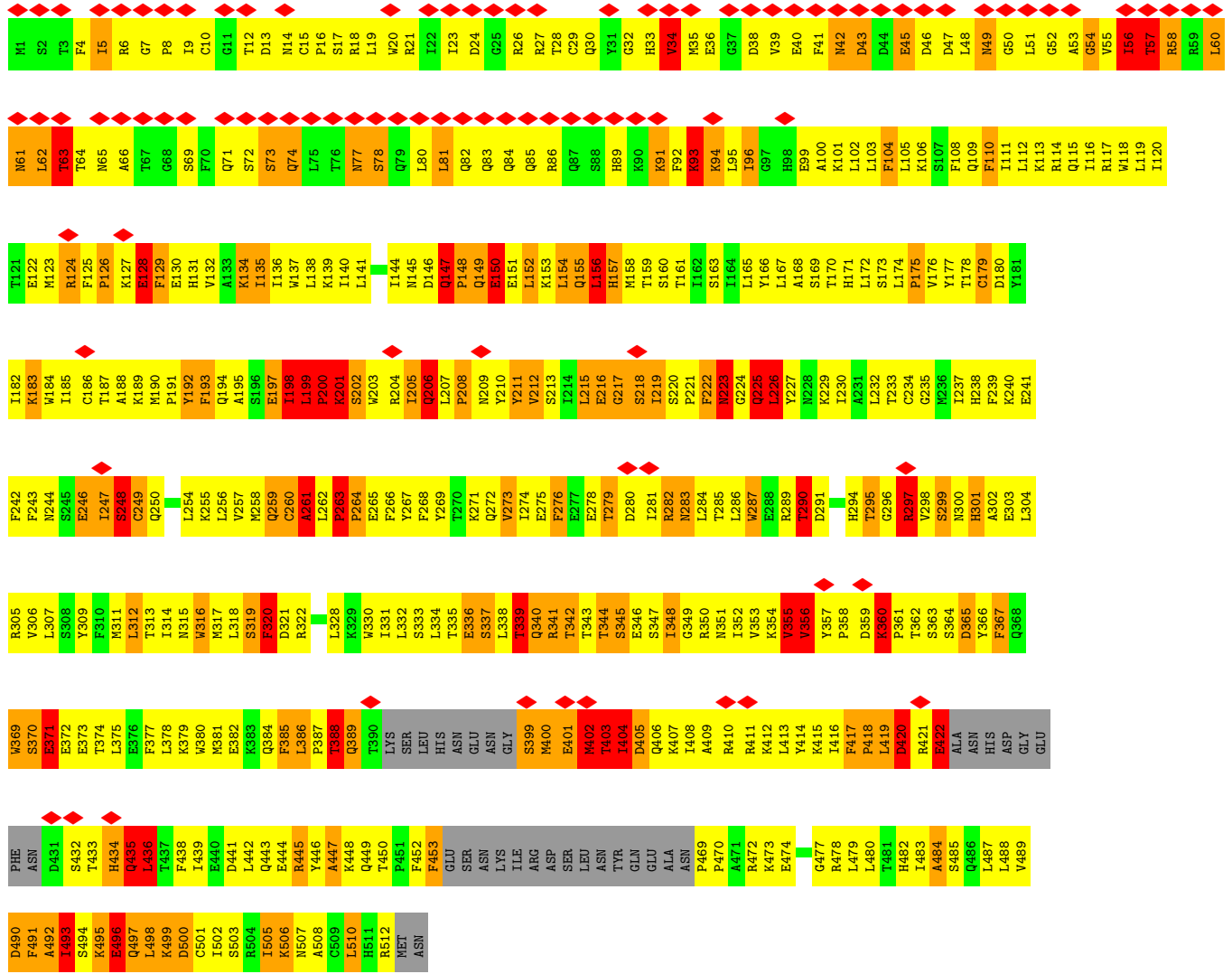


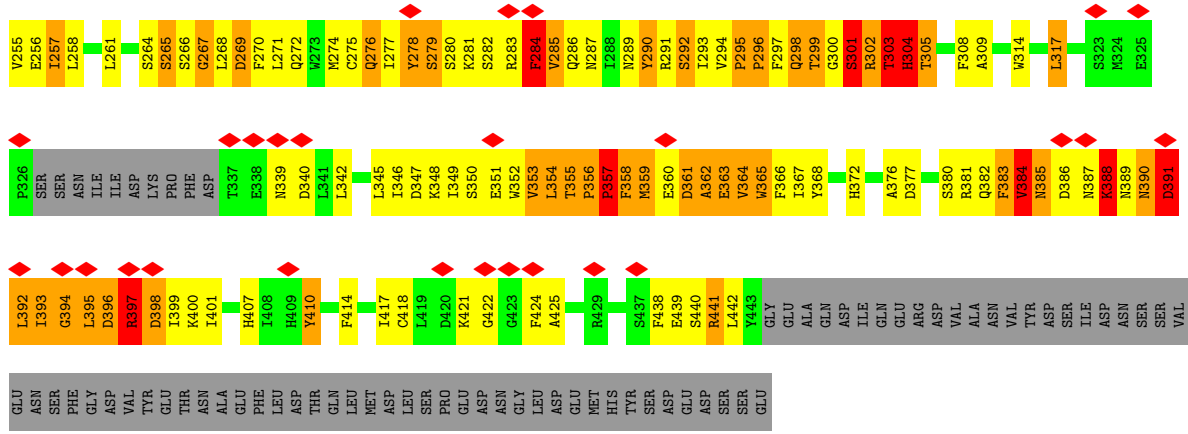












• Molecule 18: RNA



• Molecule 19: non-template strand DNA



• Molecule 20: template strand DNA



## 4 Experimental information

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 ( $e^-/\text{\AA}^2$ )	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 ( $\text{\AA}$ )	249.59999, 249.59999, 249.59999	wwPDB
Map dimensions	192, 192, 192	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	1.3, 1.3, 1.3	Depositor

## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z  > 5$	RMSZ	# $ Z  > 5$
1	A	0.43	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(°)	Ideal(°)
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(°)	Ideal(°)
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(°)	Ideal(°)
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(°)	Ideal(°)
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(°)	Ideal(°)
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(°)	Ideal(°)
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(°)	Ideal(°)
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(°)	Ideal(°)
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(°)	Ideal(°)
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...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Group</b>
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:HH2	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 <sup>7</sup>	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%)	9	45
2	B	1172/1203 (97%)	1078 (92%)	71 (6%)	23 (2%)	7	40
3	C	304/335 (91%)	286 (94%)	13 (4%)	5 (2%)	9	45
4	D	55/137 (40%)	52 (94%)	3 (6%)	0	100	100
5	E	213/215 (99%)	203 (95%)	7 (3%)	3 (1%)	11	47
6	F	81/155 (52%)	73 (90%)	7 (9%)	1 (1%)	13	50
7	G	197/326 (60%)	182 (92%)	12 (6%)	3 (2%)	10	46
8	H	129/146 (88%)	123 (95%)	6 (5%)	0	100	100
9	I	63/125 (50%)	55 (87%)	6 (10%)	2 (3%)	4	30
10	J	67/70 (96%)	60 (90%)	6 (9%)	1 (2%)	10	46
11	K	101/142 (71%)	94 (93%)	7 (7%)	0	100	100
12	L	43/70 (61%)	38 (88%)	4 (9%)	1 (2%)	6	37
13	M	104/415 (25%)	97 (93%)	5 (5%)	2 (2%)	8	41
14	N	156/233 (67%)	129 (83%)	21 (14%)	6 (4%)	3	27
15	O	581/894 (65%)	408 (70%)	111 (19%)	62 (11%)	0	8
16	P	473/514 (92%)	320 (68%)	74 (16%)	79 (17%)	0	3
17	Q	343/507 (68%)	234 (68%)	56 (16%)	53 (16%)	0	3
All	All	5527/7151 (77%)	4772 (86%)	491 (9%)	264 (5%)	4	23

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...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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%)	71	84
2	B	1030/1053 (98%)	1009 (98%)	21 (2%)	55	73
3	C	270/296 (91%)	269 (100%)	1 (0%)	91	94
4	D	56/116 (48%)	56 (100%)	0	100	100
5	E	197/197 (100%)	196 (100%)	1 (0%)	88	93
6	F	73/137 (53%)	73 (100%)	0	100	100
7	G	179/291 (62%)	175 (98%)	4 (2%)	52	71
8	H	117/128 (91%)	116 (99%)	1 (1%)	78	88
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%)	73	85
12	L	40/57 (70%)	40 (100%)	0	100	100
13	M	96/371 (26%)	92 (96%)	4 (4%)	30	55
14	N	146/220 (66%)	143 (98%)	3 (2%)	53	72
15	O	545/778 (70%)	496 (91%)	49 (9%)	9	33
16	P	445/476 (94%)	379 (85%)	66 (15%)	3	17
17	Q	331/474 (70%)	276 (83%)	55 (17%)	2	14
All	All	5031/6364 (79%)	4810 (96%)	221 (4%)	32	54

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...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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 monosaccharides 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

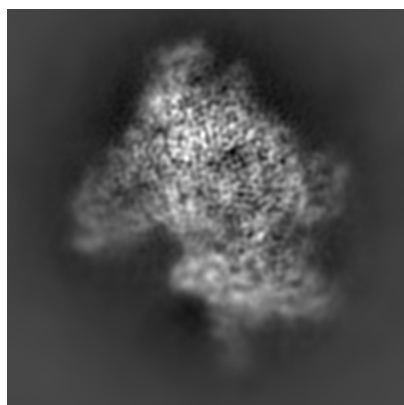
## 6 Map visualisation [i](#)

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.

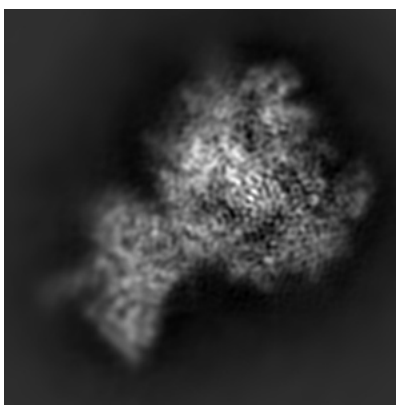
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

### 6.1 Orthogonal projections [i](#)

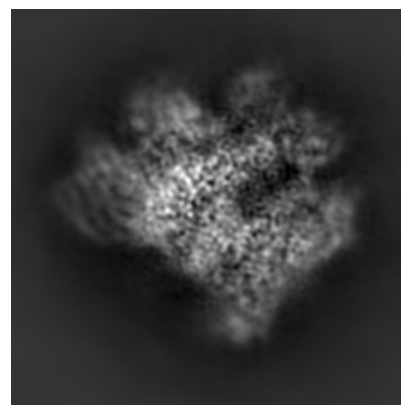
#### 6.1.1 Primary map



X



Y

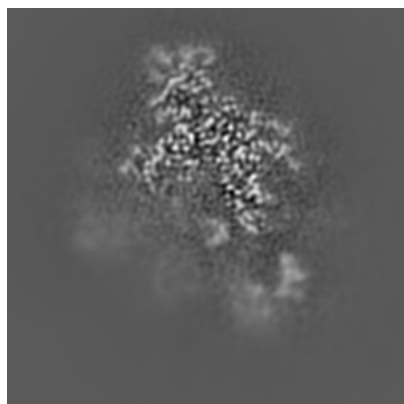


Z

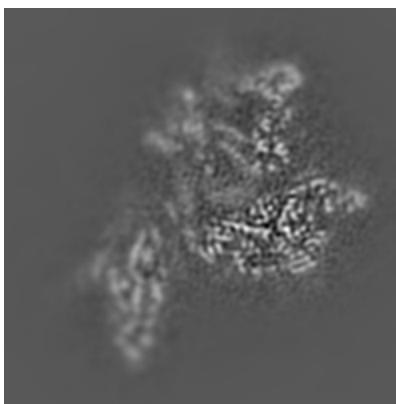
The images above show the map projected in three orthogonal directions.

### 6.2 Central slices [i](#)

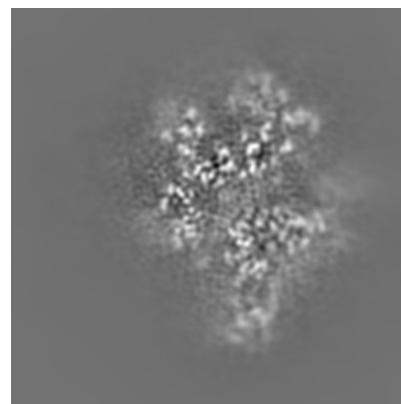
#### 6.2.1 Primary map



X Index: 96



Y Index: 96



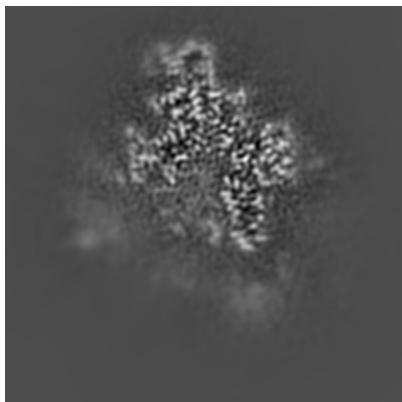
Z Index: 96



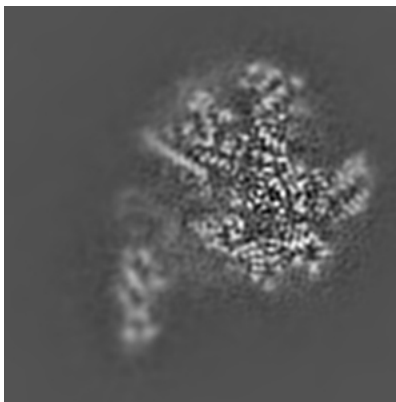
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

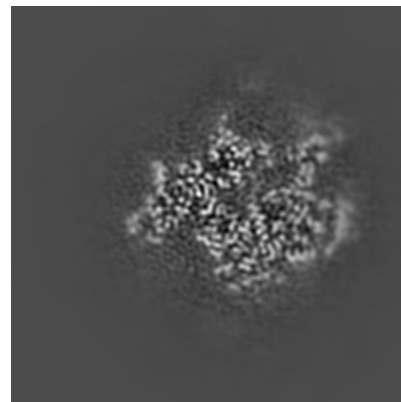
### 6.3.1 Primary map



X Index: 100



Y Index: 87

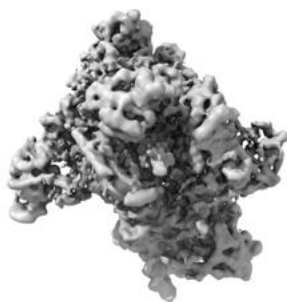


Z Index: 127

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

## 6.4 Orthogonal surface views [i](#)

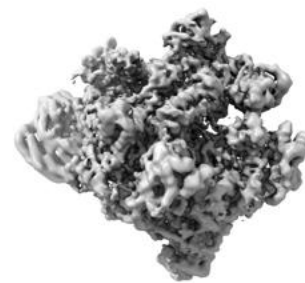
### 6.4.1 Primary map



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.

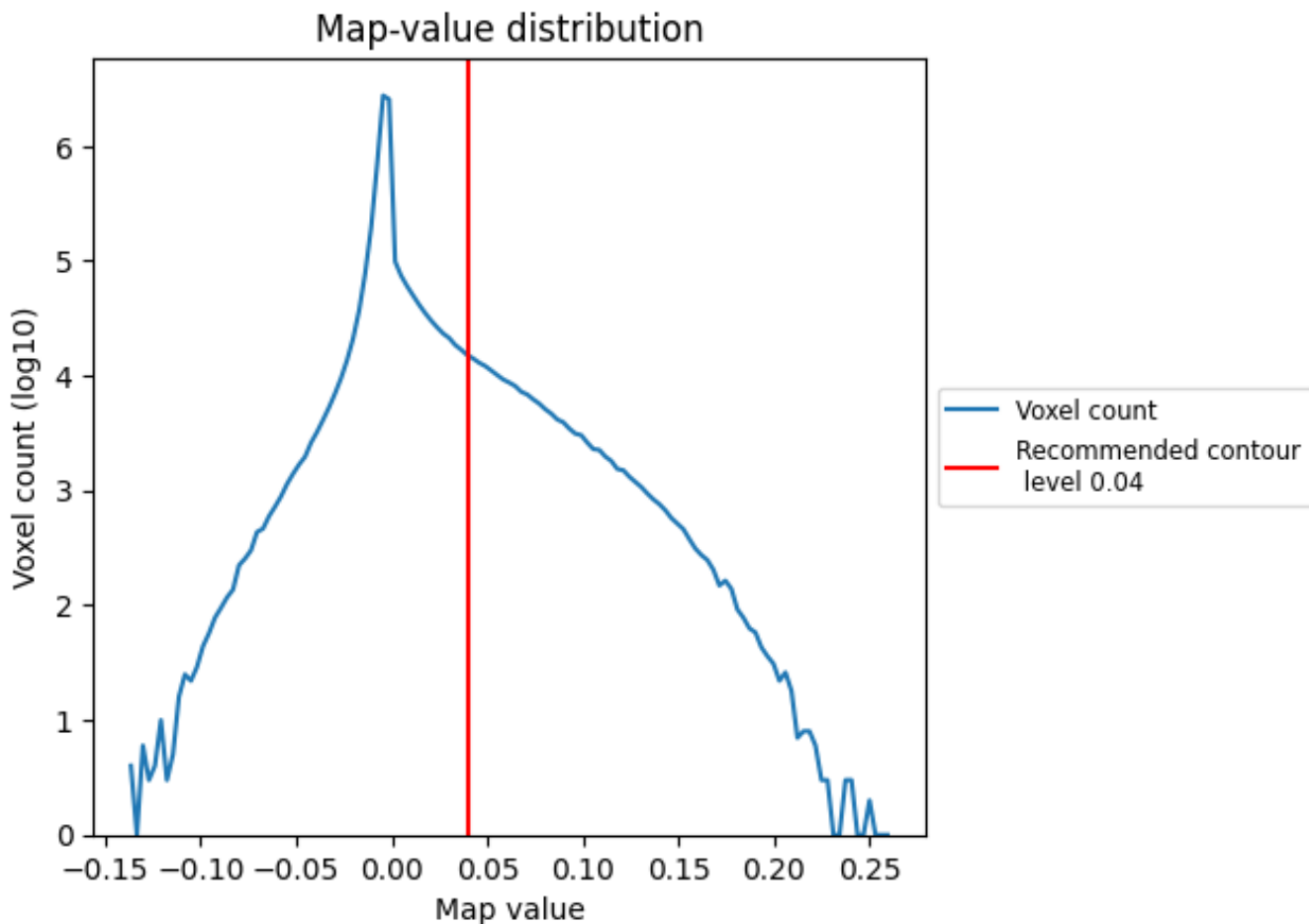
## 6.5 Mask visualisation

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

## 7 Map analysis [i](#)

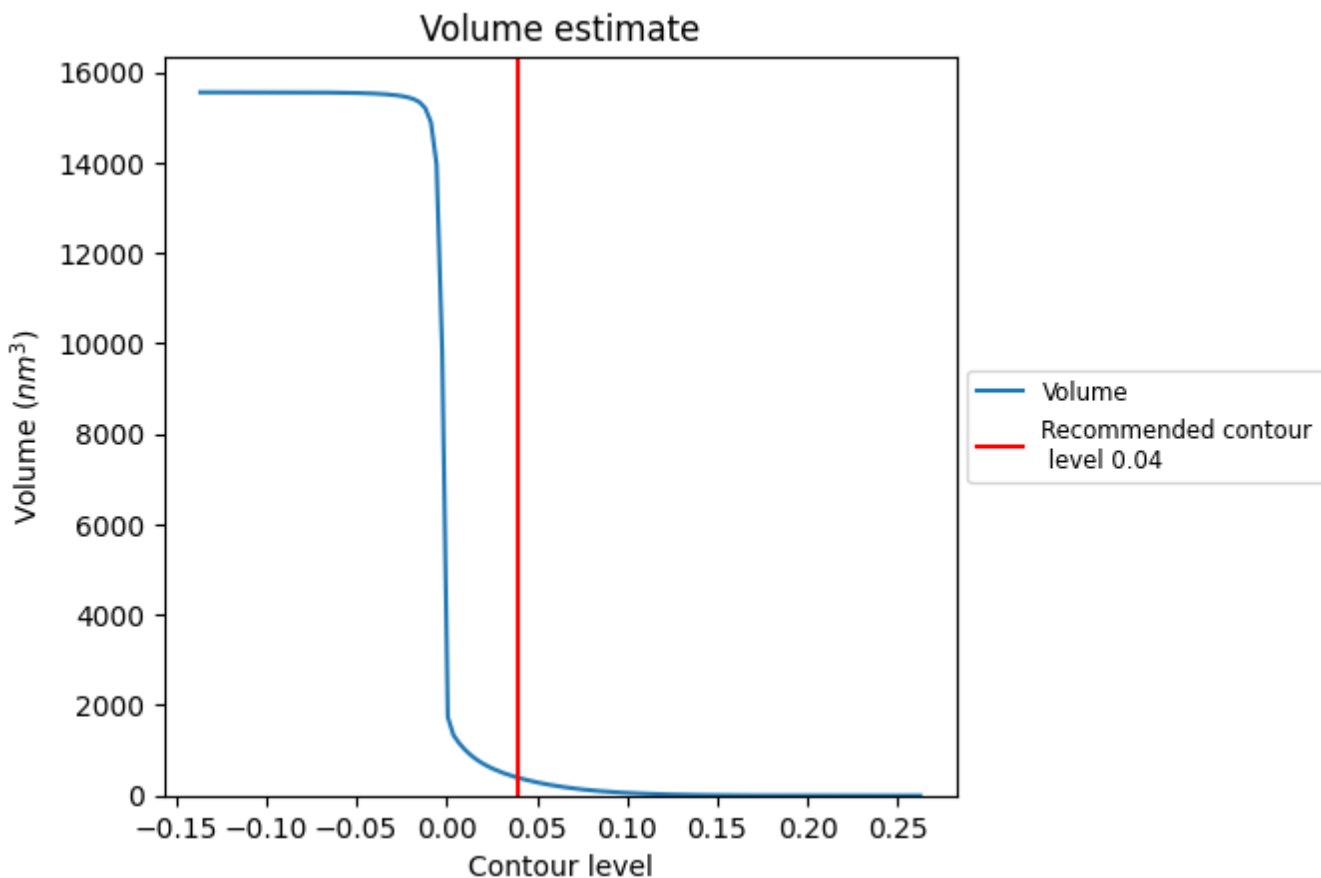
This section contains the results of statistical analysis of the map.

### 7.1 Map-value distribution [i](#)



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

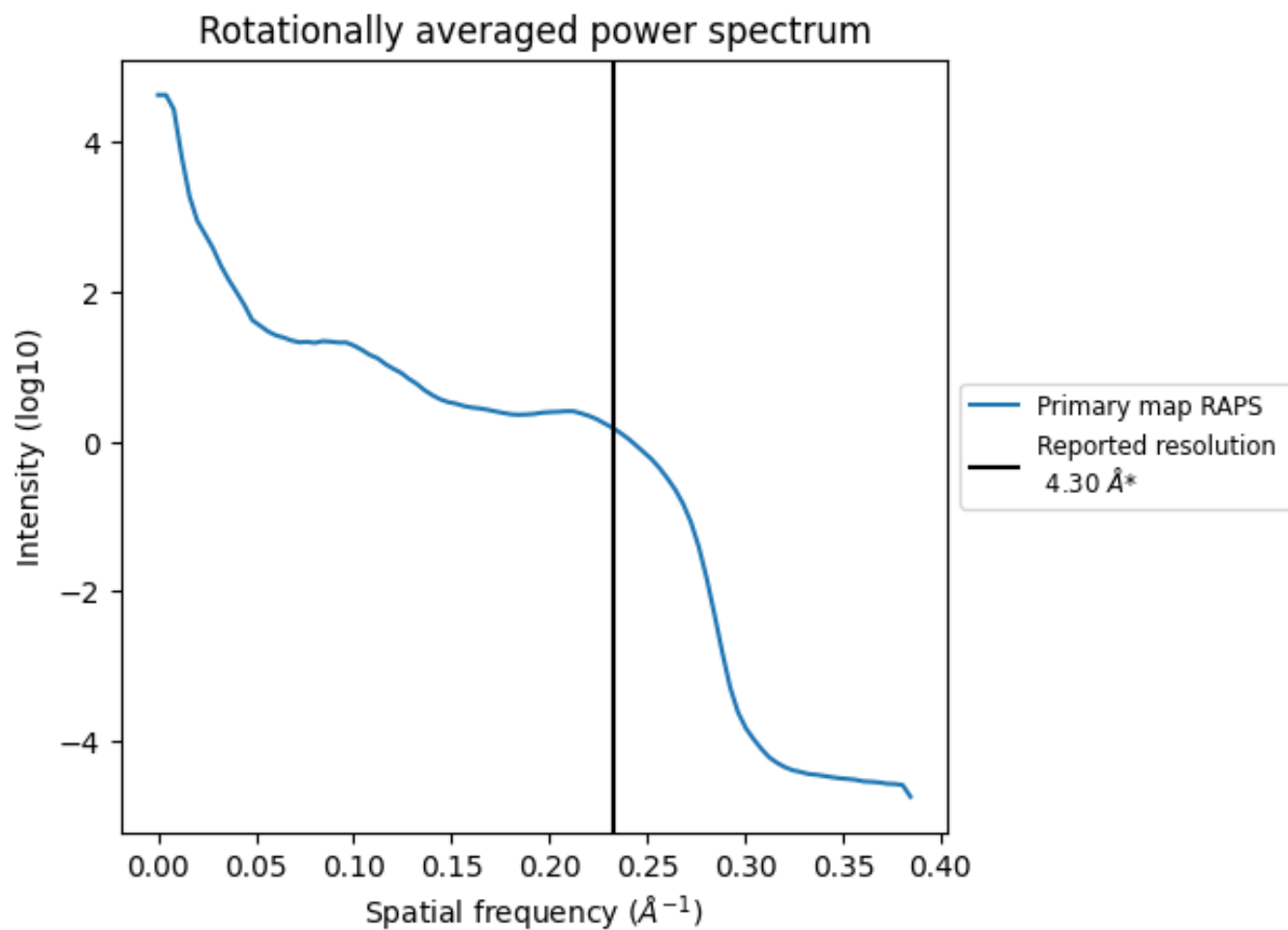
## 7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 390 nm<sup>3</sup>; 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](#)

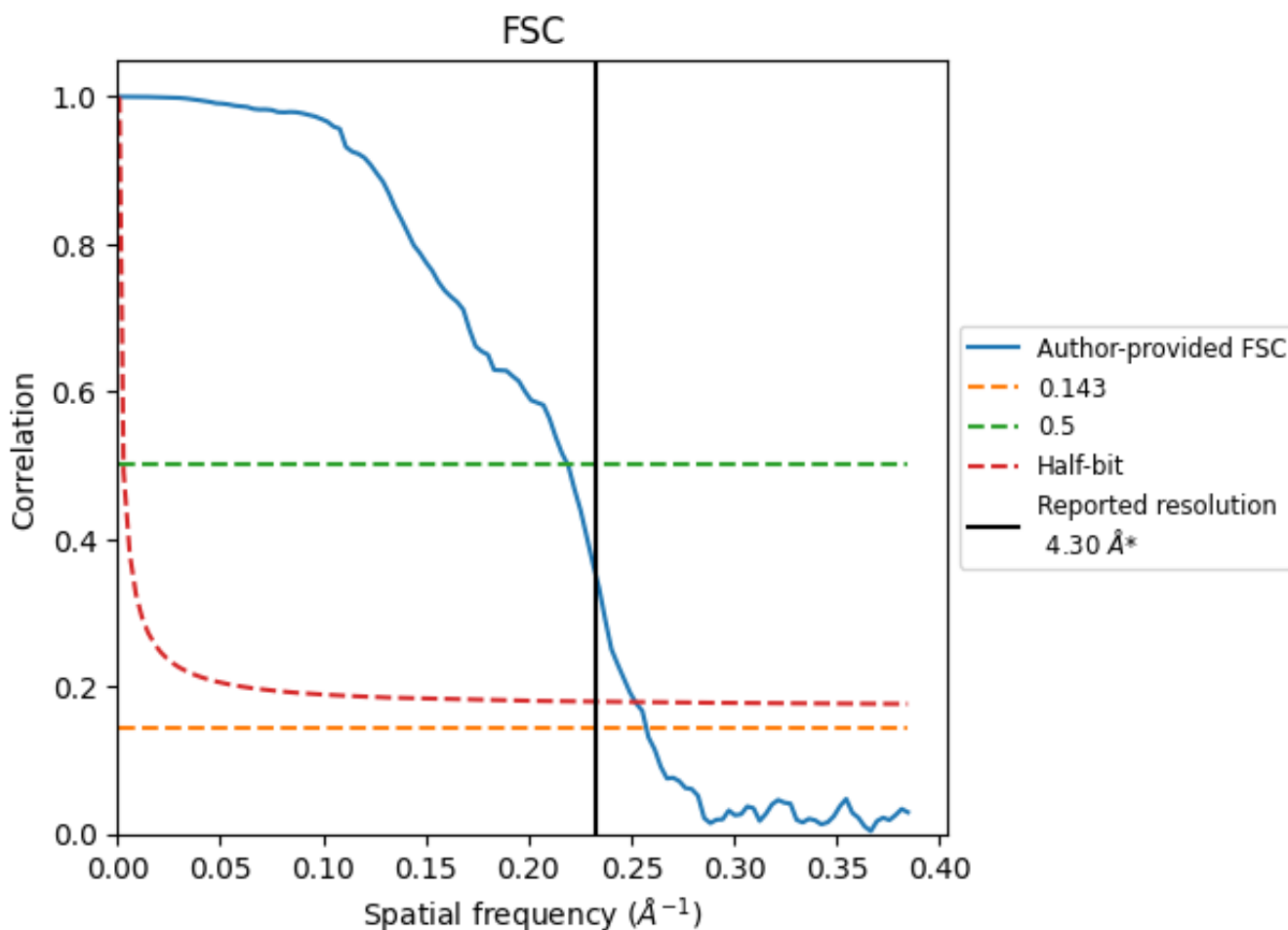


\*Reported resolution corresponds to spatial frequency of 0.233 Å<sup>-1</sup>

## 8 Fourier-Shell correlation [i](#)

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 [i](#)



\*Reported resolution corresponds to spatial frequency of 0.233 Å<sup>-1</sup>

## 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*	-	-	-

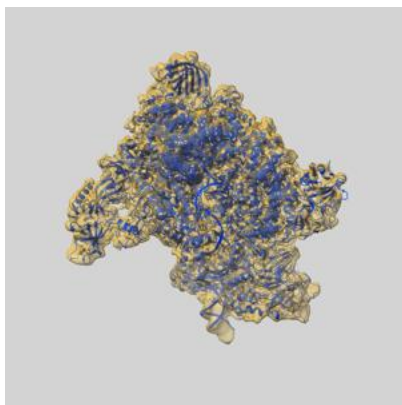
\*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.



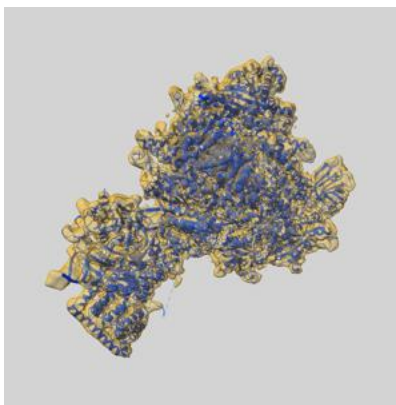
## 9 Map-model fit [i](#)

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.

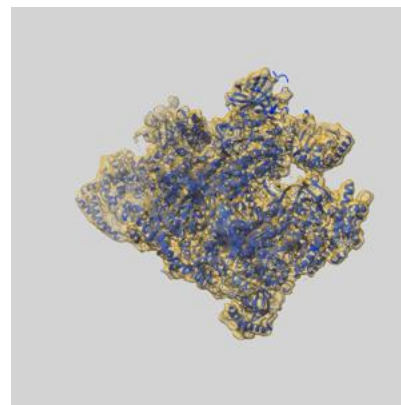
### 9.1 Map-model overlay [i](#)



X



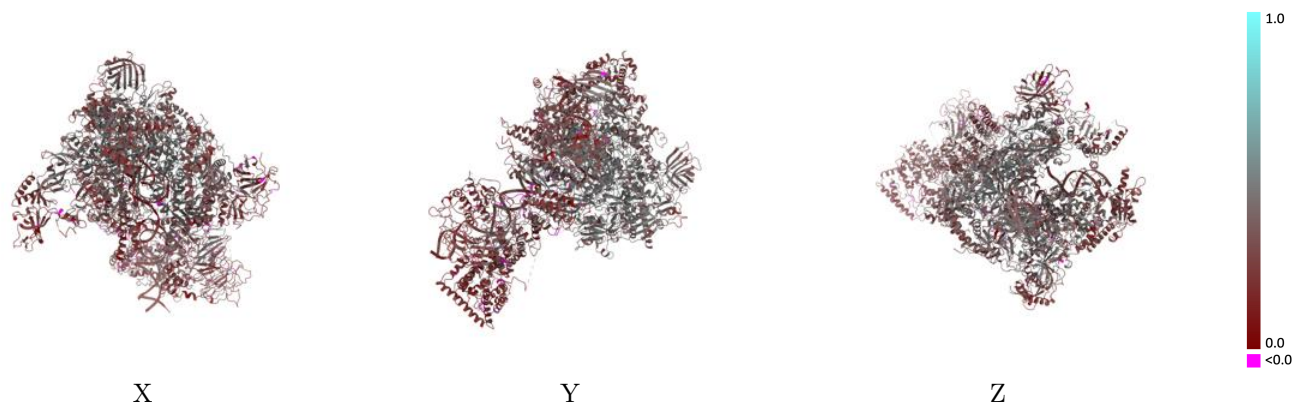
Y



Z

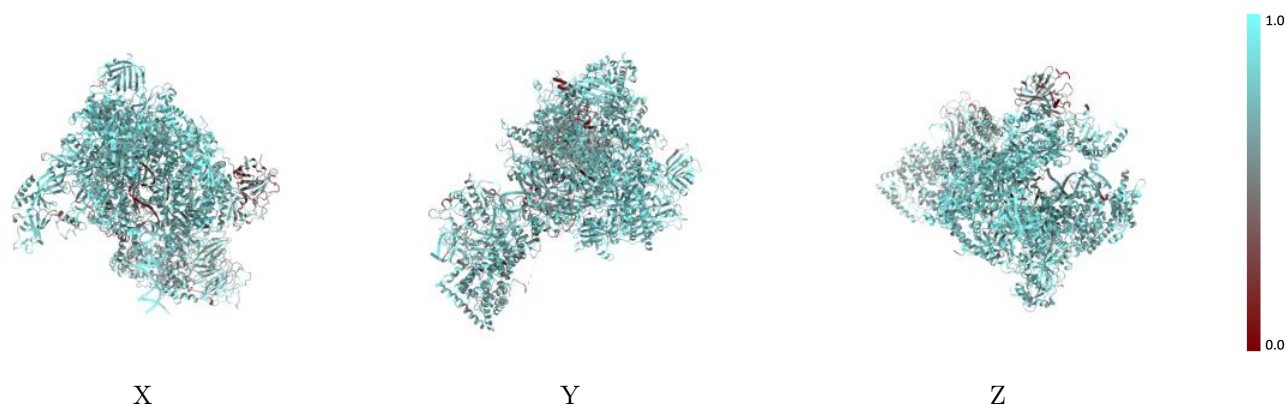
The images above show the 3D surface view of the map at the recommended contour level 0.04 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



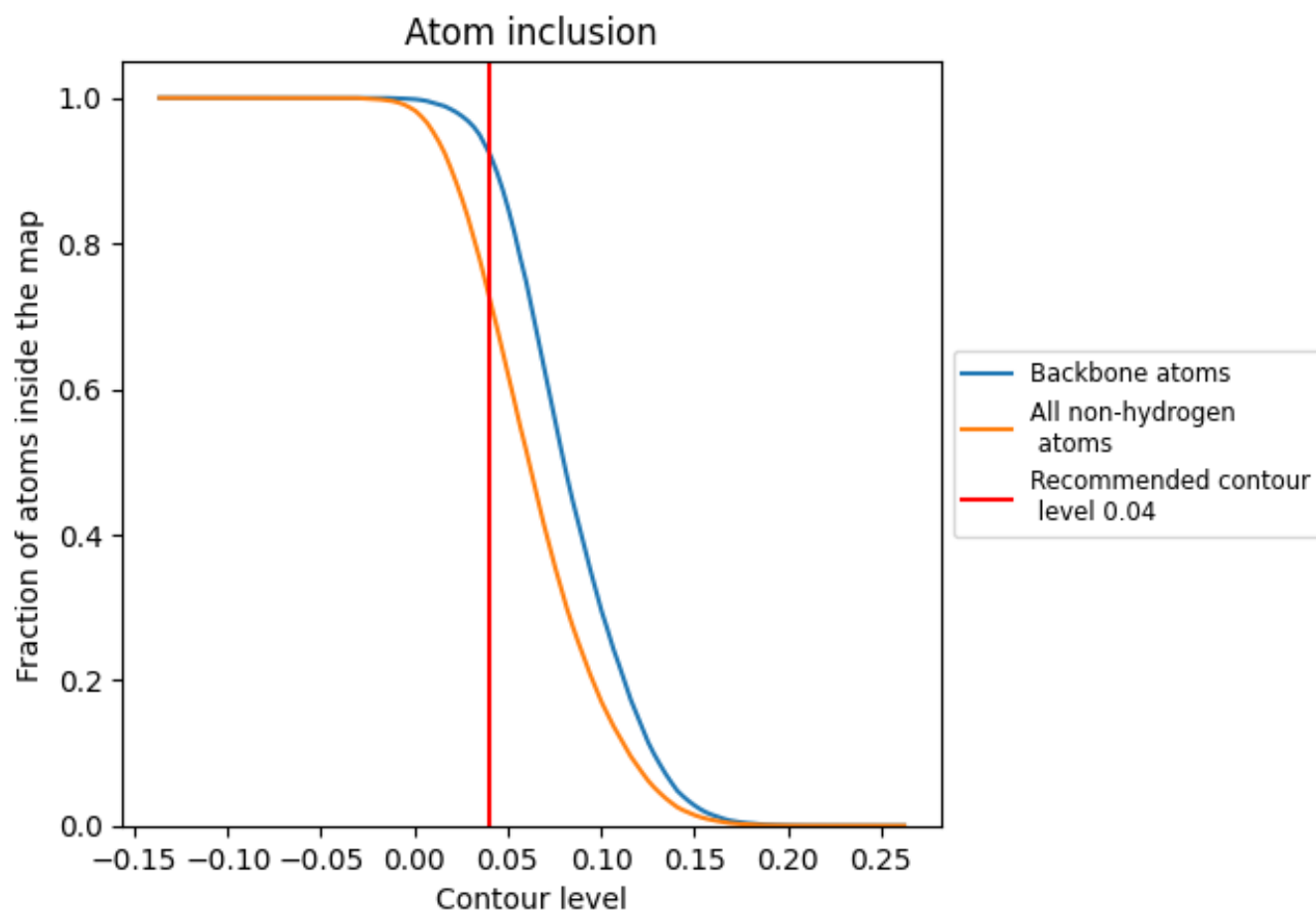
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (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	 0.7279	 0.3360
A	 0.7789	 0.3860
B	 0.7959	 0.4230
C	 0.8228	 0.4070
D	 0.6868	 0.2640
E	 0.7657	 0.3280
F	 0.8206	 0.4130
G	 0.7172	 0.2790
H	 0.7946	 0.3690
I	 0.7002	 0.3270
J	 0.8442	 0.4450
K	 0.7703	 0.3980
L	 0.8092	 0.4350
M	 0.5361	 0.2680
N	 0.4703	 0.2770
O	 0.6655	 0.2350
P	 0.5810	 0.1930
Q	 0.6560	 0.2550
R	 0.1181	 0.1490
S	 0.7561	 0.2550
T	 0.6543	 0.2290

