



Full wwPDB X-ray Structure Validation Report

Jun 16, 2014 – 07:31 PM BST

PDB ID : 4V4Y
Title : Crystal structure of the 70S *Thermus thermophilus* ribosome with translocated and rotated Shine-Dalgarno Duplex.
Authors : Jenner, L.; Yusupova, G.; Rees, B.; Moras, D.; Yusupov, M.
Deposited on : 2006-06-27
Resolution : 5.50 Å(reported)

This is a full wwPDB validation report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

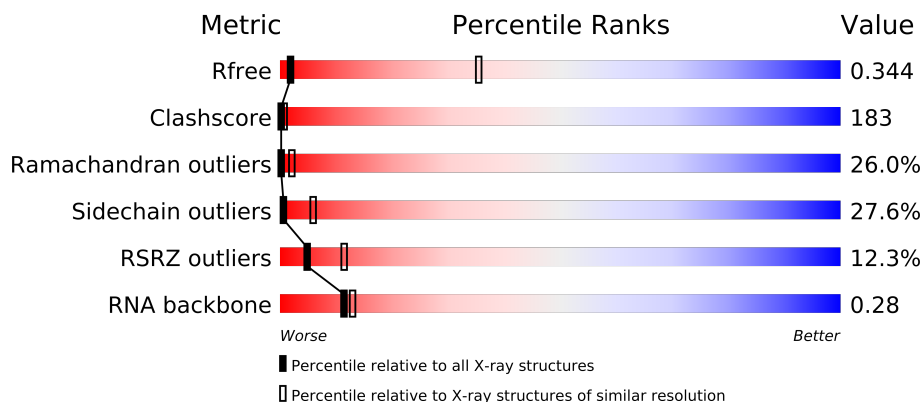
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.16 November 2013
Xtriage (Phenix) : dev-1323
EDS : stable23397
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable23397

1 Overall quality at a glance

The reported resolution of this entry is 5.50 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	66092	1083 (7.50-3.50)
Clashscore	79885	1008 (7.40-3.52)
Ramachandran outliers	78287	1275 (7.50-3.50)
Sidechain outliers	78261	1251 (7.50-3.50)
RSRZ outliers	66119	1082 (7.50-3.50)
RNA backbone	1838	1040 (7.50-2.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	AA	1522	
2	A1	50	
3	AB	76	
3	AC	76	
3	AD	76	
4	AE	256	
5	AF	239	
6	AG	209	
7	AH	162	
8	AI	101	
9	AJ	156	
10	AK	138	



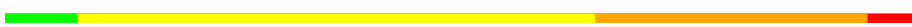
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
11	AL	128	
12	AM	105	
13	AN	129	
14	AO	132	
15	AP	126	
16	AQ	61	
17	AR	89	
18	AS	88	
19	AT	105	
20	AU	88	
21	AV	93	
22	AW	106	
23	AX	27	
24	BA	2916	
25	BB	123	
26	BC	229	
27	BD	276	
28	BE	206	
29	BF	210	
30	BG	182	
31	BH	180	
32	BK	148	
33	BL	147	
34	BM	140	
35	BN	122	
36	BO	150	
37	BP	141	
38	BQ	118	
39	BR	112	
40	BS	146	
41	BT	118	
42	BU	101	
43	BV	113	
44	BW	96	
45	BX	110	
46	BY	206	
47	BZ	85	
48	B1	67	
49	B2	60	
50	B3	71	
51	B4	60	
52	B5	54	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
53	B6	49	
54	B7	65	
55	B8	37	

2 Entry composition

There are 55 unique types of molecules in this entry. The entry contains 151691 atoms, of which 0 are hydrogen and 0 are deuterium.

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

- Molecule 1 is a RNA chain called 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1515	Total	C	N	O	P	0	0	0
			32554	14490	6022	10527	1515			

- Molecule 2 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	A1	50	Total	C	N	O	P	0	0	0
			1025	459	128	388	50			

- Molecule 3 is a RNA chain called tRNA PHE (unmodified bases).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AC	76	Total	C	N	O	P	0	0	0
			1623	723	290	534	76			
3	AD	76	Total	C	N	O	P	0	0	0
			1623	723	290	534	76			
3	AB	76	Total	C	N	O	P	0	0	0
			1623	723	290	534	76			

- Molecule 4 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AE	234	Total	C	N	O	S	0	0	0
			1900	1213	341	341	5			

- Molecule 5 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AF	206	Total	C	N	O	S	0	0	0
			1612	1016	314	281	1			

- Molecule 6 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AG	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			

- Molecule 7 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AH	150	Total	C	N	O	S	0	0	0
			1146	724	217	201	4			

- Molecule 8 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AI	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

- Molecule 9 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AJ	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

- Molecule 10 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AK	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

- Molecule 11 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AL	127	Total	C	N	O		0	0	0
			1010	639	197	174				

- Molecule 12 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AM	98	Total	C	N	O	S	0	0	0
			794	499	156	138	1			

- Molecule 13 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AN	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			

- Molecule 14 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AO	124	Total	C	N	O	S	0	0	0
			970	611	195	163	1			

- Molecule 15 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AP	125	Total	C	N	O	S	0	0	0
			997	617	207	171	2			

- Molecule 16 is a protein called 30S ribosomal protein S14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AQ	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 17 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AR	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			

- Molecule 18 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	AS	83	Total	C	N	O	S	0	0	0
			700	443	139	117	1			

- Molecule 19 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AT	104	Total	C	N	O	S	0	0	0
			857	547	161	147	2			

- Molecule 20 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
20	AU	73	Total	C	N	O	0	0	0
			597	380	118	99			

- Molecule 21 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	AV	80	Total	C	N	O	S	0	0	0
			647	414	119	112	2			

- Molecule 22 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AW	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			

- Molecule 23 is a protein called 30S ribosomal protein Thx.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
23	AX	24	Total	C	N	O	0	0	0
			208	128	50	30			

- Molecule 24 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	BA	2889	Total	C	N	O	P	0	0	0
			62218	27691	11629	20009	2889			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BA	493	G	-	INSERTION	GB 48268

- Molecule 25 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	BB	123	Total	C	N	O	P	0	0	0
			2641	1175	488	855	123			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BB	-1	A	-	INSERTION	GB 48271

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
BB	120	U	-	INSERTION	GB 48271

- Molecule 26 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BC	228	Total	C	N	O	S	0	0	0
			1742	1102	318	319	3			

- Molecule 27 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	BD	272	Total	C	N	O	S	0	0	0
			2124	1339	424	358	3			

- Molecule 28 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	BE	206	Total	C	N	O	S	0	0	0
			1578	997	302	273	6			

- Molecule 29 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	BF	208	Total	C	N	O	S	0	0	0
			1625	1034	303	286	2			

- Molecule 30 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	BG	182	Total	C	N	O	S	0	0	0
			1482	947	269	261	5			

- Molecule 31 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BH	174	Total	C	N	O	S	0	0	0
			1328	844	248	235	1			

- Molecule 32 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BK	148	Total	C	N	O	S	0	0	0
			1155	737	205	212	1			

- Molecule 33 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BL	138	Total	C	N	O	S	0	0	0
			1025	654	181	185	5			

- Molecule 34 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BM	139	Total	C	N	O	S	0	0	0
			1113	717	207	186	3			

- Molecule 35 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BN	122	Total	C	N	O	S	0	0	0
			932	587	171	170	4			

- Molecule 36 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BO	145	Total	C	N	O	S	0	0	0
			1106	688	226	190	2			

- Molecule 37 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BP	136	Total	C	N	O	S	0	0	0
			1080	688	204	183	5			

- Molecule 38 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BQ	117	Total	C	N	O		0	0	0
			960	599	202	159				

- Molecule 39 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
39	BR	110	Total	C	N	O			
			877	553	175	149	0	0	0

- Molecule 40 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
40	BS	117	Total	C	N	O	S		
			976	614	197	164	1	0	0

- Molecule 41 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
41	BT	117	Total	C	N	O	S		
			964	610	202	151	1	0	0

- Molecule 42 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
42	BU	101	Total	C	N	O	S		
			779	501	142	135	1	0	0

- Molecule 43 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
43	BV	110	Total	C	N	O	S		
			876	552	171	151	2	0	0

- Molecule 44 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	BW	94	Total	C	N	O			
			742	483	133	126		0	0

- Molecule 45 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
45	BX	110	Total	C	N	O	S		
			844	539	158	141	6	0	0

- Molecule 46 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BY	180	Total	C	N	O	S	0	0	0
			1435	916	256	260	3			

- Molecule 47 is a protein called Ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BZ	85	Total	C	N	O	S	0	0	0
			670	415	141	112	2			

- Molecule 48 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	B1	67	Total	C	N	O	S	0	0	0
			567	350	116	99	2			

- Molecule 49 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	B2	59	Total	C	N	O	S	0	0	0
			469	298	90	81				

- Molecule 50 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	B3	71	Total	C	N	O	S	0	0	0
			581	364	108	104	5			

- Molecule 51 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	B4	57	Total	C	N	O	S	0	0	0
			445	279	87	74	5			

- Molecule 52 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	B5	49	Total	C	N	O	S	0	0	0
			426	265	87	70	4			

- Molecule 53 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	B6	49	Total	C	N	O	S	0	0	0
			430	263	108	57	2			

- Molecule 54 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	B7	64	Total	C	N	O	S	0	0	0
			515	331	102	79	3			

- Molecule 55 is a protein called 50S ribosomal protein L36.

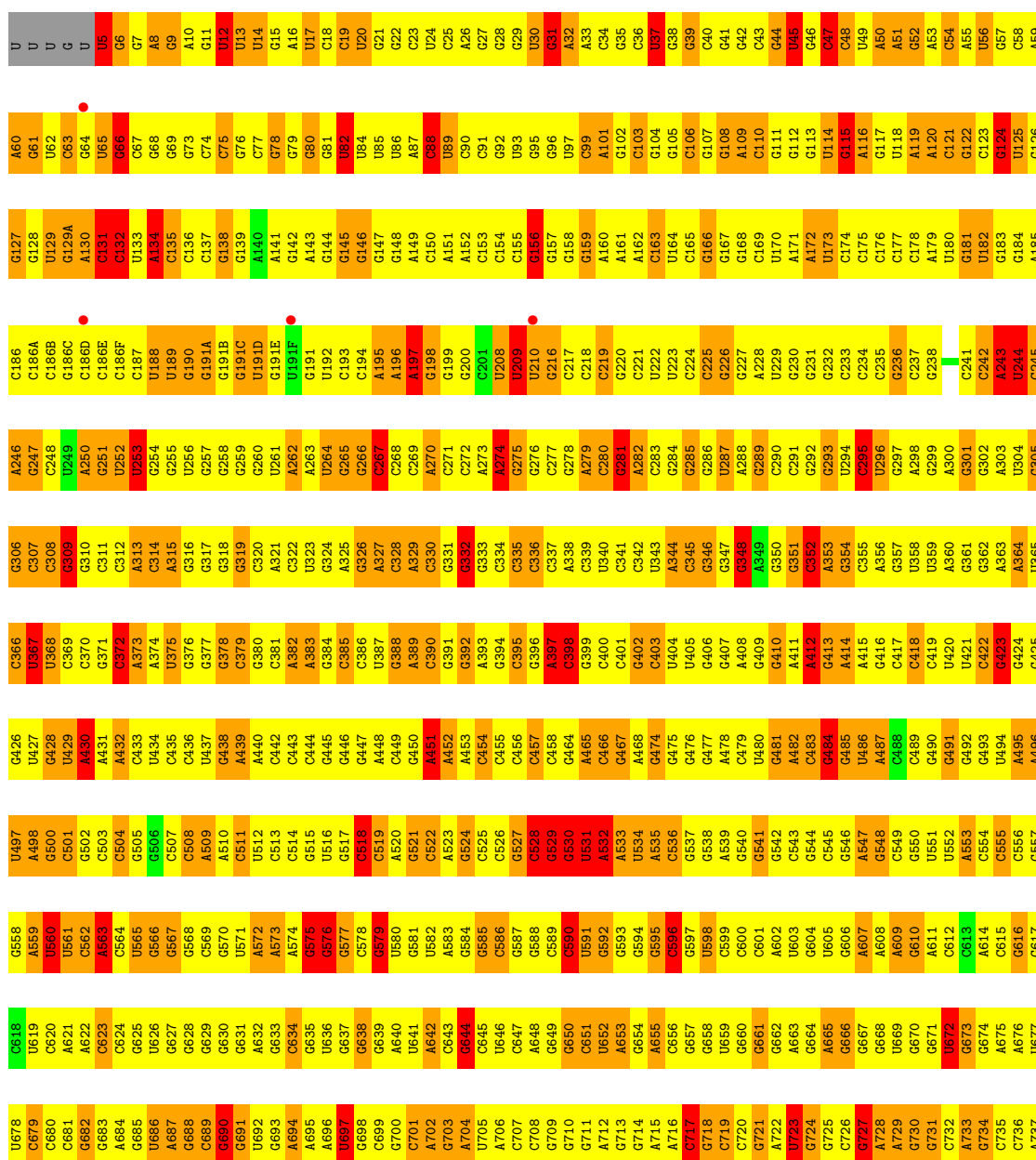
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	B8	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

3 Residue-property plots

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

• Molecule 1: 16S ribosomal RNA

Chain AA: 

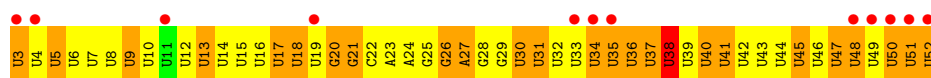


G1524	G1464	C1399	A1340	A1280	G1220	U1159	G1099	C924	A864	G798	C738
G1525	C1465	C1400	U1341	U1281	G1221	G1160	C1100	G925	A865	G799	C739
G1526	C1466	G1401	C1342	C1282	G1222	C1161	A1101	G926	C866	G800	U740
C1527	G1467	C1402	G1343	G1283	C1223	C1162	A1102	G927	G867	A896	G741
U1528	A1468	C1403	C1344	C1284	G1224	C1163	C1103	G928	C868	A802	G742
G1529	G1469	C1404	U1345	A1285	A1225	G1164	G1104	G929	C869	G803	U743
G1530	G1470	G1405	A1346	A1286	C1226	C1165	A1105	C930	U870	U804	C744
A1531	G1471	U1406	U1347	A1287	A1227	G1166	A1106	C931	U871	G805	C745
U1532	U1472	C1407	U1348	A1288	C1228	A1167	G1107	C932	A872	C806	A746
C1533	A1473	A1408	C1349	A1289	A1229	A1169	G1108	G933	A873	A807	C747
A1534	G1474	C1409	A1350	G1290	C1230	A1170	C1109	G934	G874	C808	C748
C1535	G1475	G1410	U1351	G1291	G1231	G1171	A1110	A936	C875	G809	C749
C1536	G1476	C1411	C1352	U1292	U1232	G1172	A1111	C935	C876	C810	G750
U1537	C1477	C1412	G1353	G1293	G1233	G1173	C1112	A937	C877	C811	U751
C1538	C1478	A1413	C1354	G1294	C1234	G1174	C1113	U938	G878	C812	G752
C1539	C1479	U1414	G1355	G1295	U1235	G1175	C1114	G939	G879	U813	A753
U1540	G1480	G1415	C1356	A1296	A1236	A1176	C1115	C940	C880	A814	C754
U1541	U1481	G1416	A1357	C1297	C1237	G1177	C1116	A941	G881	A815	G755
U1542	G1482	G1417	U1358	C1298	A1238	G1178	C1117	G942	C882	A816	C756
C	A1483	A1418	C1359	A1299	A1239	A1179	C1118	U943	C883	C817	U757
U	C1484	C1419	A1360	C1300	U1240	A1180	C1119	G944	U884	G818	G758
	U1485	C1420	G1361	U1301	G1241	G1181	G1120	A945	C885	A819	A759
	G1486	C1421	C1362	U1302	C1242	G1182	U1121	A946	G886	U820	G760
	G1487	G1422	A1362A	C1303	C1243	A1183	U1122	G947	G887	G821	G761
	G1488	G1423	C1363	G1304	C1244	G1184	A1123	C948	G888	C822	C762
	C1489	C1424	U1364	G1305	A1245	C1185	G1124	A949	A889	G823	G763
	C1490	U1425	C1365	A1306	C1246	G1186	U1125	U950	C890	C824	C764
	G1491	C1426	C1366	U1307	U1247	G1187	U1126	G951	U891	G825	G765
	A1492	U1427	C1367	U1308	A1248	A1188	G1127	U952	A892	C826	A766
	A1493	A1428	G1368	G1309	C1249	C1189	C1128	G953	C893	U827	A767
	G1494	C1429	C1369	G1310	A1250	G1190	C1129	G954	G894	A828	A768
	U1495	C1430	G1370	G1311	A1251	A1191	A1130	U955	G895	C829	G769
	C1496	C1431	G1371	G1312	A1252	C1192	U1131	U956	C896	C830	C770
	G1497	G1432	U1372	U1313	C1253	G1193	C1132	U957	C897	U831	G771
	A1499	A1434	C1373	C1314	C1254	U1194	G1134	A958	G898	C832	U772
	U1500	G1435	A1374	U1315	G1255	C1195	G1135	A959	C899	U833	G773
	C1501	U1436	U1375	G1316	A1256	U1196	U1136	U960	A900	C834	G774
	A1502	C1437	A1377	C1317	U1257	G1197	U1137	U961	A891	U835	G775
	A1503	G1438	C1378	A1318	G1258	G1198	C1137	C962	G902	G836	G776
	G1504	C1439	G1379	A1319	C1259	U1199	G1138	G963	G903	G837	A777
	G1505	C1440	U1380	C1320	C1260	C1200	G1139	A964	C904	G838	G778
	U1506	G1441	U1381	C1321	A1261	A1201	C1140	A965	U905	U841	C779
	A1507	G1442	C1382	C1322	C1262	G1202	G1141	G966	G906	C842	A780
	G1508	G1443	C1383	G1323	C1263	C1203	G1142	C967	A907	U843	A781
	C1509	A1446	C1384	A1324	C1264	A1204	G1143	A968	A908	C848	A782
	U1510	G1447	G1385	C1325	G1265	U1205	G1144	A969	A909	C849	C783
	G1511	C1448	G1386	C1326	G1266	G1206	C1145	C970	C910	U850	C784
	U1512	C1449	G1387	C1327	C1267	G1207	A1146	G971	U911	G851	G785
	A1513	U1450	C1388	A1328	A1268	C1208	C1147	C972	C912	G852	G786
	C1514	A1451	C1389	U1329	A1269	C1209	U1148	G973	A913	G853	A787
	C1515	C1452	U1390	U1330	C1270	C1210	C1149	A974	A914	C854	U788
	G1516	G1453	U1391	G1331	G1271	U1211	U1150	A975	A915	G855	U789
	G1517	G1454	A1392	C1332	G1272	U1212	A1151	G976	G916	C856	A790
	A1518	G1455	U1393	G1333	G1273	A1213	A1152	A977	G917	C857	G791
	A1519	C1456	C1394	G1334	G1274	C1214	C1153	A978	A918	G858	A792
	U1520	A1460	C1395	C1335	A1275	G1215	G1154	G979	A919	A859	U793
	G1521	G1461	A1396	C1336	G1276	G1216	G1155	C980	U920	A860	A794
	U1522	G1462	C1397	G1337	C1277	C1217	G1156	U981	U921	G861	C795
	G1523	A1463	A1398	A1339	A1279	C1218	C1157	C982	U922	C862	C796
						U1219	C1158	A983	A923	U863	C797

• Molecule 2: mRNA

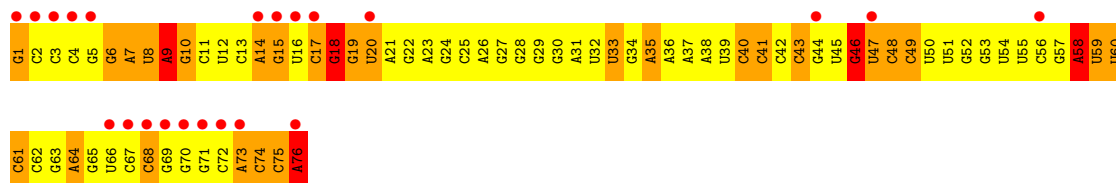
Chain A1:





- Molecule 3: tRNA PHE (unmodified bases)

Chain AC:



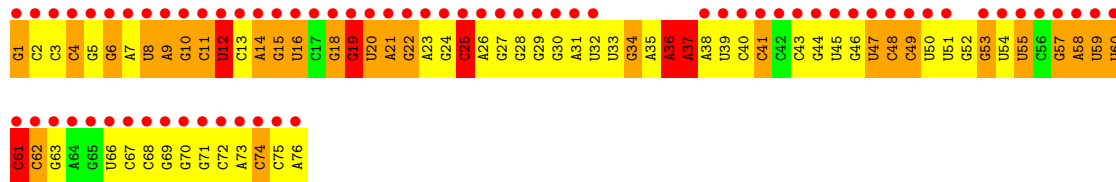
- Molecule 3: tRNA PHE (unmodified bases)

Chain AD:



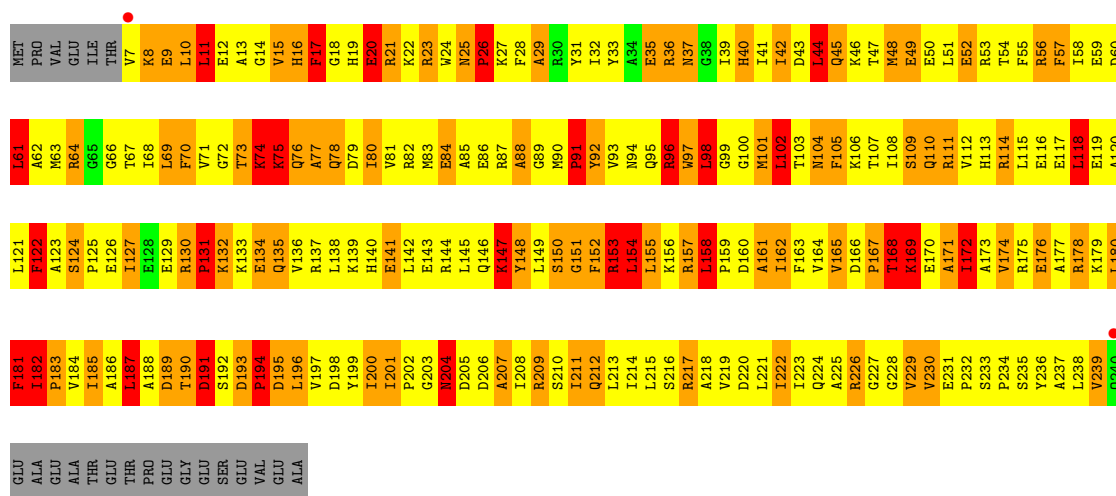
- Molecule 3: tRNA PHE (unmodified bases)

Chain AB:



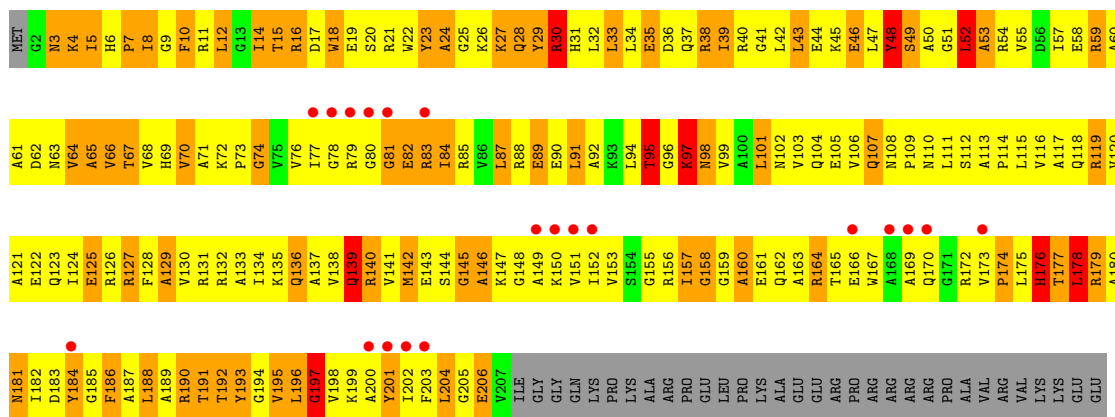
- Molecule 4: 30S ribosomal protein S2

Chain AE:



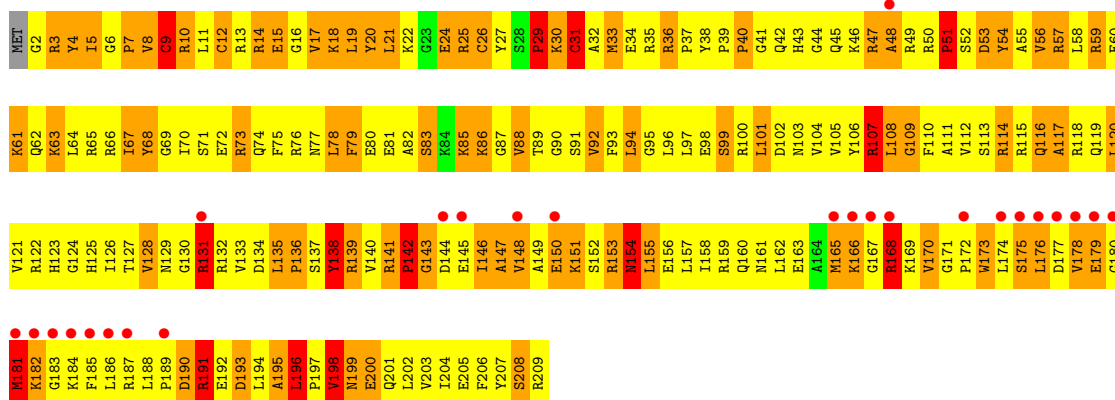
- Molecule 5: 30S ribosomal protein S3

Chain AF:



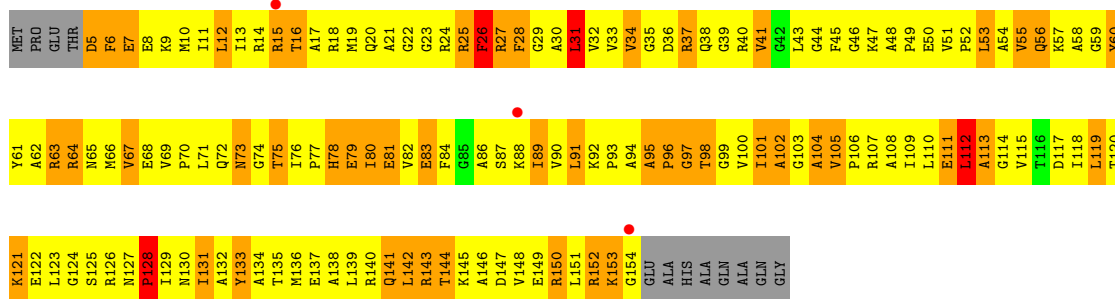
- Molecule 6: 30S ribosomal protein S4

Chain AG:



- Molecule 7: 30S ribosomal protein S5

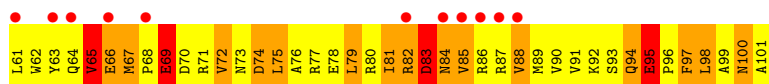
Chain AH:



- Molecule 8: 30S ribosomal protein S6

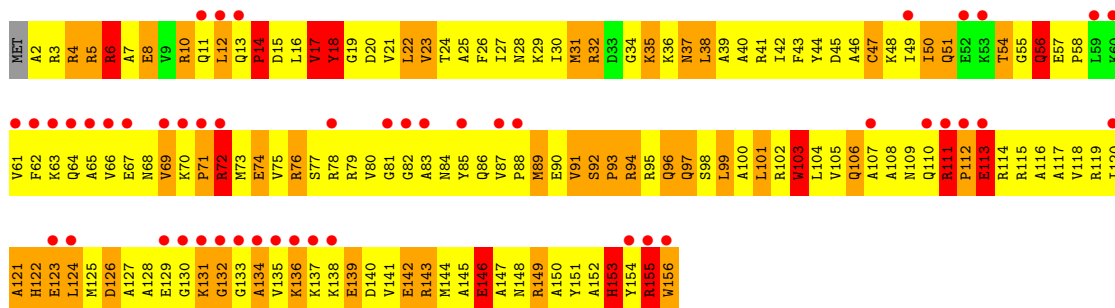
Chain AI:





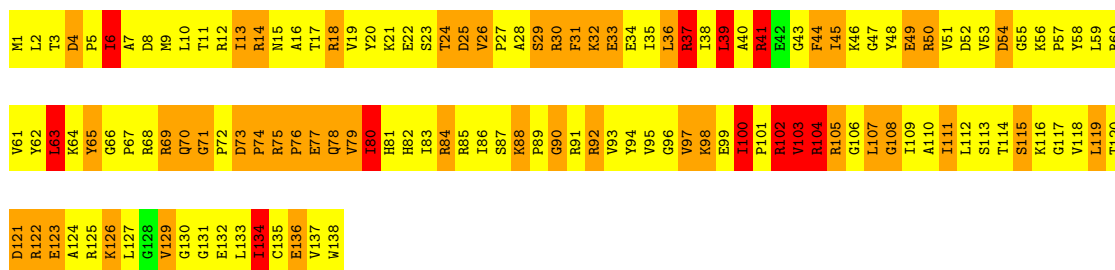
• Molecule 9: 30S ribosomal protein S7

Chain AJ:



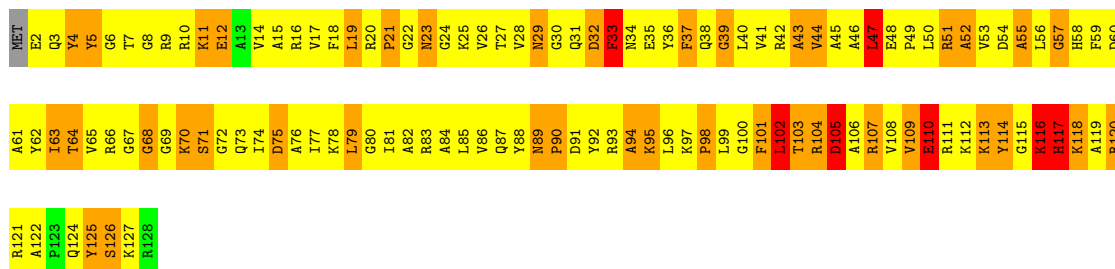
• Molecule 10: 30S ribosomal protein S8

Chain AK:



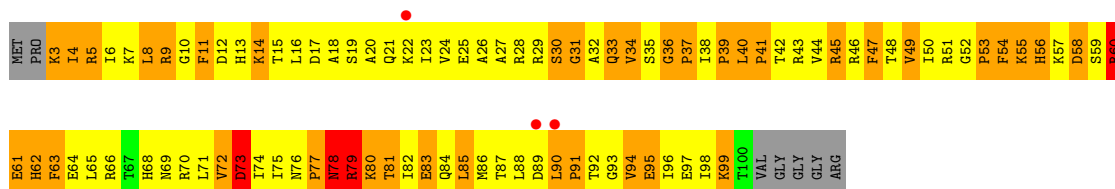
• Molecule 11: 30S ribosomal protein S9

Chain AL:



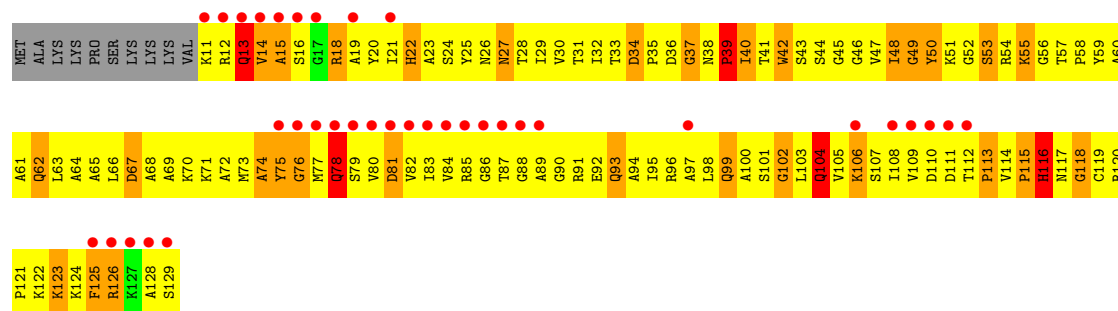
• Molecule 12: 30S ribosomal protein S10

Chain AM:



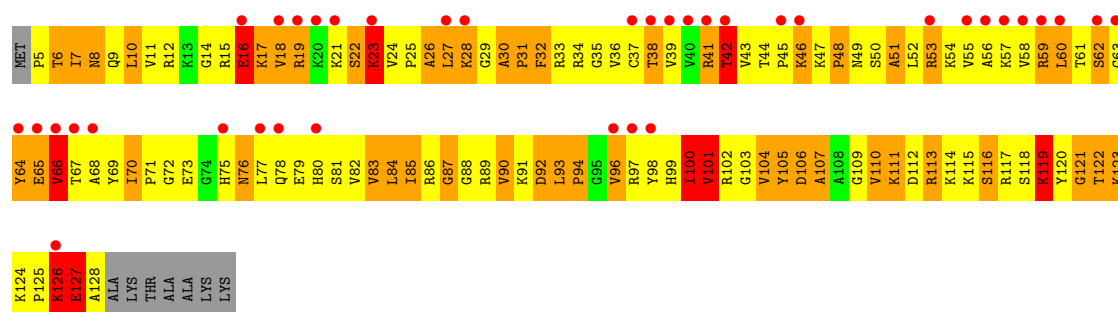
• Molecule 13: 30S ribosomal protein S11

Chain AN:



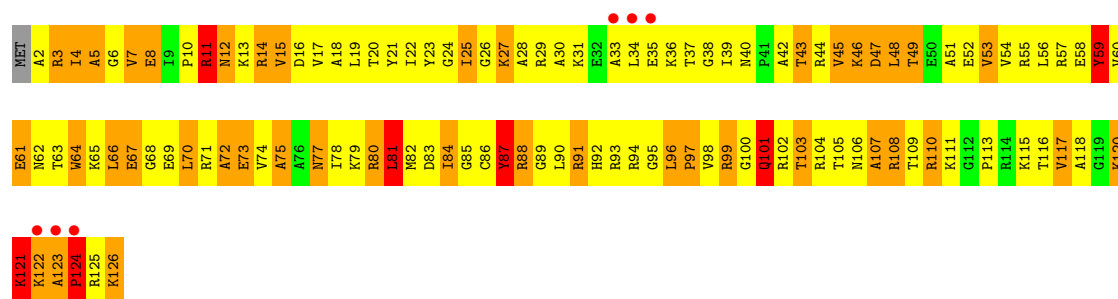
- Molecule 14: 30S ribosomal protein S12

Chain AO:



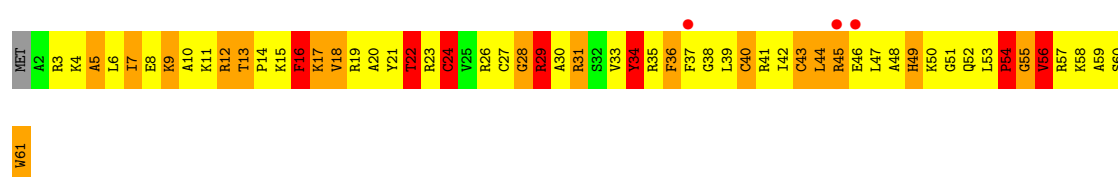
- Molecule 15: 30S ribosomal protein S13

Chain AP:



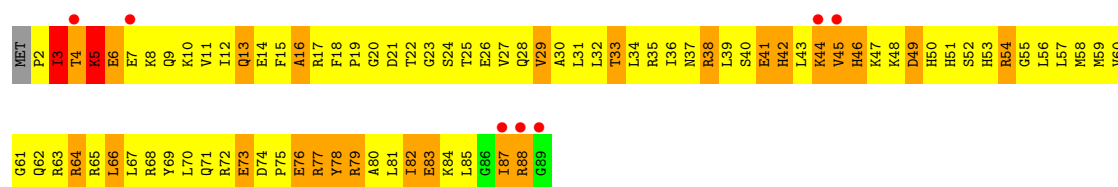
- Molecule 16: 30S ribosomal protein S14

Chain AQ:



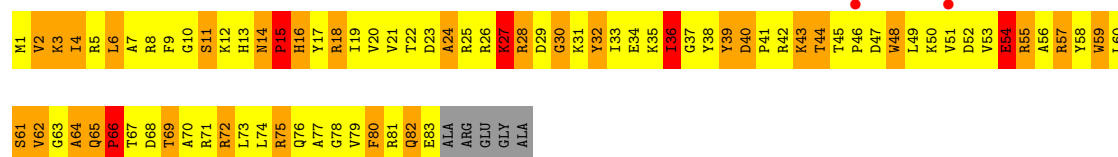
- Molecule 17: 30S ribosomal protein S15

Chain AR:



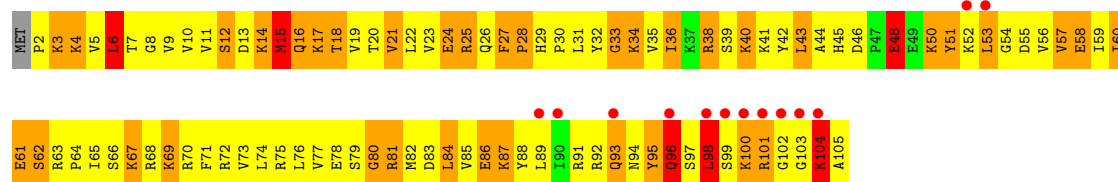
• Molecule 18: 30S ribosomal protein S16

Chain AS:



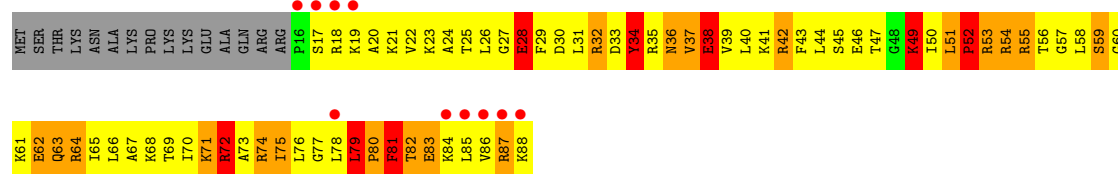
• Molecule 19: 30S ribosomal protein S17

Chain AT:



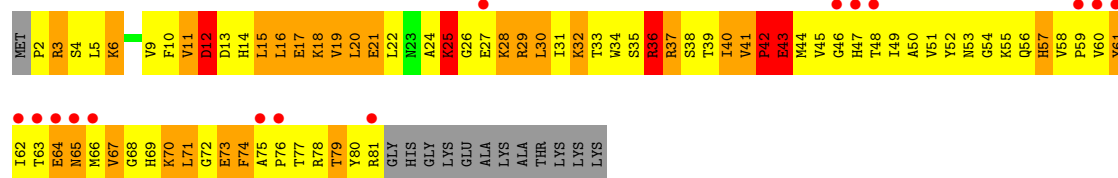
• Molecule 20: 30S ribosomal protein S18

Chain AU:



• Molecule 21: 30S ribosomal protein S19

Chain AV:



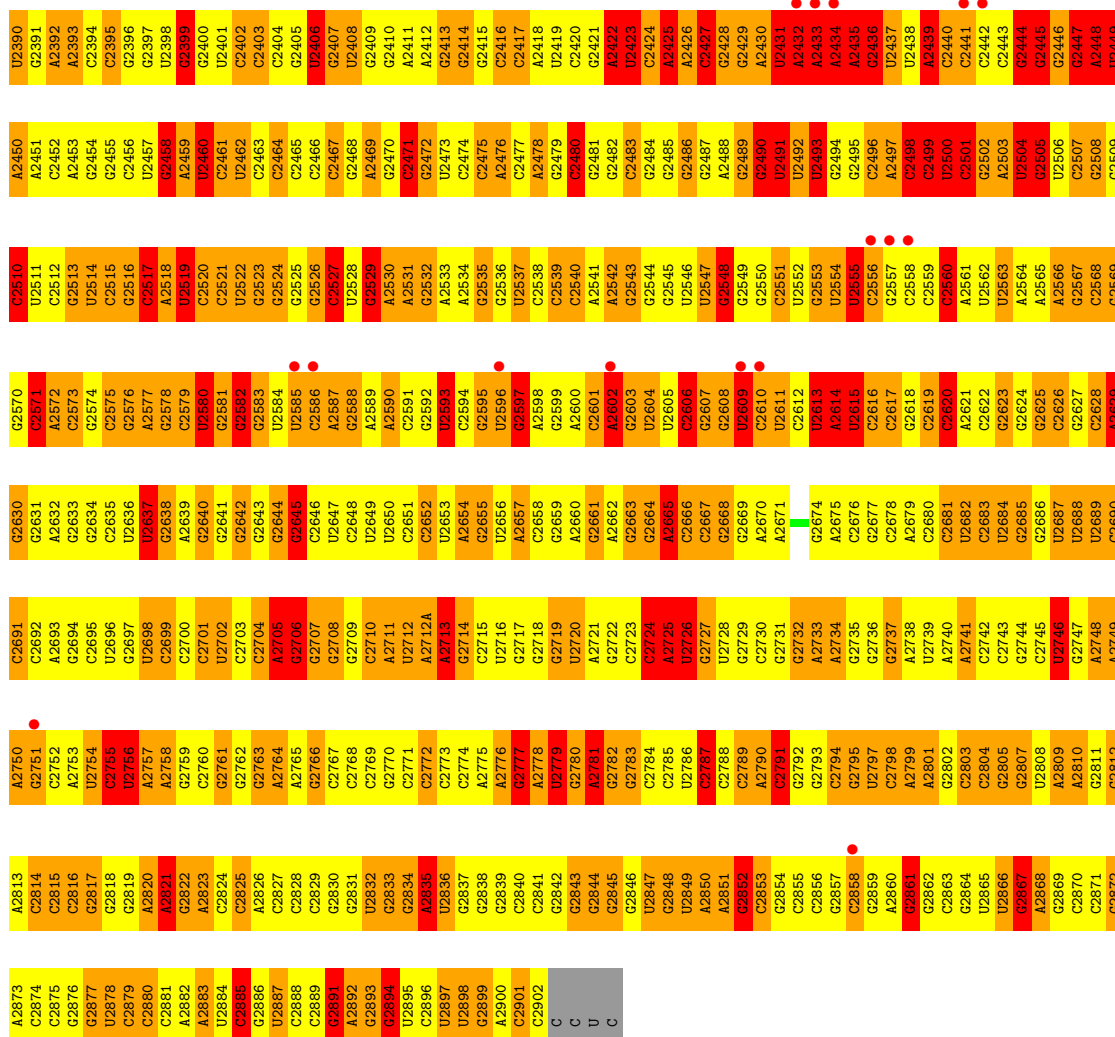
• Molecule 22: 30S ribosomal protein S20

Chain AW:



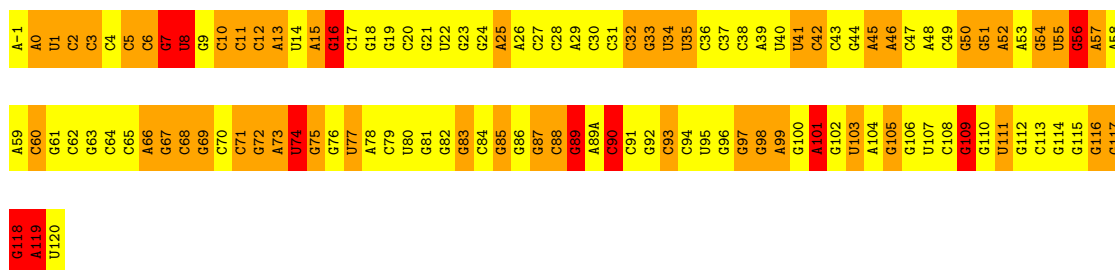
U1454	G1455	A1395	U1335	A1275	U1214	G1153	U1094	G1034	C974A	C914	G853	A793	G733	C673
G1456	U1396	A1276	A1336	A1277	G1215	G1154	A1095	U1035	G975	C915	G854	G794	A734	G674
A1457	U1397	G1277	G1337	A1278	G1216	A1155	A1096	G1036	C976	C916	G855	C795	A735	A675
G1458	C1398	A1279	G1338	A1278	C1217	A1156	U1097	G1037	G977	A917	C856	C796	G736	A676
G1459	G1339	G1280	U1339	G1280	U1220	G1157	A1098	C1038	G978	A918	C857	C797	G737	A677
A1460	G1400	G1281	U1340	G1281	C1221	C1158	G1099	G1039	G979	A919	U858	G798	G738	C678
G1461	C1401	U1282	U1341	U1282	U1101	U1159	C1100	C1040	A980	G920	G859	G799	G739	C679
C1402	C1402	U1283	A1342	U1283	U1102	G1160	C1101	C1041	A981	G921	U860	A800	U740	G680
C1463	G1343	G1284	G1343	A1284	C1223	C1161	C1102	G1042	C982	U922	U861	G801	G741	G681
C1464	A1404	A1285	G1344	A1285	G1162	A1162	A1103	C1043	A983	C923	G862	A802	G742	G682
C1465	U1405	G1286	C1345	G1286	G1163	G1163	C1104	G1044	A984	C924	A863	U803	G743	C683
G1466	U1406	A1287	G1346	A1287	U1105	G1164	U1105	A1045	C985	C925	C865	A804	G744	G684
C1467	G1407	A1287	G1347	A1287	G1165	U1165	G1106	A1046	C986	A926	C866	G806	G745	A685
C1408	U1288	U1288	G1348	U1288	G1228	C1166	G1107	G1047	C987	G928	A867	C806	A746	G686
C1409	A1349	C1289	A1349	C1289	G1229	U1167	U1108	A1048	A988	G929	C867	U807	U747	C687
G1410	C1290	C1290	G1350	C1290	G1229	U1168	U1109	C1049	G989	U930	U868	G808	G748	A688
G1470	C1351	U1291	C1351	U1291	G1231	G1169	A1110	A1050	A990	G931	G869	G809	C749	A689
A1471	U1352	U1292	G1352	U1292	G1232	G1170	A1111	G1051	C991	G932	A870	U810	A750	G690
A1472	G1413	C1293	A1353	C1293	C1233	G1171	G1112	C1052	C992	A933	U871	U811	A751	C691
G1473	G1414	U1294	A1354	U1294	U1234	G1173	U1113	C1053	G993	G934	A872	C812	A752	C692
G1475	G1415	G1295	G1355	G1295	G1235	A1174	G1114	C1054	C994	C935	A873	U813	C753	C693
G1476	G1416	G1296	G1356	G1296	G1236	U1175	G1115	G1055	C995	C936	G874	C814	C754	U694
C1477	U1357	C1297	U1357	C1297	A1237	G1176	C1116	G1056	A996	U937	G875	C815	C755	G695
G1418	G1358	C1298	G1358	C1298	G1238	A1177	G1117	A1057	G997	G938	C876	C816	C756	G696
A1419	A1359	G1299	A1359	G1299	G1239	C1178	G1118	G1058	C998	G939	U877	C817	U757	G697
U1420	U1360	U1300	A1360	U1300	U1240	C1179	C1119	G1059	U999	G940	A878	G818	C758	C698
G1421	G1361	A1301	G1361	A1301	A1241	C1180	G1120	U1060	A1000	A941	G879	A819	G759	A699
G1422	C1362	A1302	C1362	A1302	A1242	C1181	C1121	U1061	A1001	G942	G880	G700	G760	A706
G1423	G1363	G1303	G1363	G1303	G1243	A1182	G1122	G1062	G1002	U943	G881	A821	A761	G701
G1424	C1364	C1304	G1364	C1304	G1244	G1183	C1123	G1063	G1003	G944	G882	U822	U762	G702
G1425	A1365	C1305	A1365	C1305	G1245	G1184	C1124	G1064	C1004	A945	G883	G823	G763	U703
G1426	A1366	C1306	A1366	C1306	A1246	G1185	G1125	U1065	C1005	G946	C884	A824	A764	G704
A1427	A1367	A1307	A1367	A1307	A1247	G1186	A1126	U1066	C1006	G947	C885	C825	G765	A705
G1428	G1368	A1308	G1368	A1308	G1248	G1187	A1127	A1067	C886	G948	G886	U826	C766	A706
G1429	G1369	G1309	G1369	G1309	U1249	U1188	A1128	G1068	C1007	C949	A887	U827	U767	G707
C1430	G1370	G1310	G1370	G1310	G1250	A1189	U1130	A1069	C1008	G950	G888	U828	G768	C708
U1431	G1371	G1311	G1371	G1311	C1251	A1190	U1131	A1070	A1010	C951	C889	A829	G769	U709
C1432	U1372	U1312	U1372	U1312	G1252	G1191	G1131	G1071	G1011	C952	A890	G830	G770	G710
U1433	A1373	U1313	A1373	U1313	A1253	G1192	A1132	C1072	U1012	G953	G892	G831	G771	G711
A1434	G1374	C1314	G1374	C1314	U1254	G1193	U1133	A1073	C1013	G954	C893	G832	U772	G712
A1495	C1375	C1315	C1375	C1315	U1255	A1194	G1134	G1074	U1014	C955	C894	U833	U773	G713
G1436	C1376	U1316	C1376	U1316	G1256	G1195	C1135	G1075	G1015	G956	U895	C834	A774	U714
C1437	G1377	A1317	G1377	A1317	C1257	G1196	G1136	A1076	G1016	A957	A896	A835	G775	G715
U1438	A1378	C1318	A1378	C1318	C1258	G1197	G1137	G1077	G1017	U958	C897	G836	G776	A716
A1439	A1379	G1319	A1379	G1319	G1259	U1198	G1138	U1078	C1018	A959	C898	C837	A777	G717
G1500	G1380	A1320	G1380	A1320	G1260	U1199	G1139	C1079	U1019	A960	A899	C838	G778	A718
C1501	G1381	C1321	G1381	C1321	C1261	C1200	C1140	C1080	A1020	C961	A900	U839	U779	C719
C1502	G1382	A1322	G1382	A1322	A1262	C1201	U1141	U1081	A1021	G962	A901	C840	G780	C720
G1503	C1383	U1323	C1383	U1323	U1263	C1202	U1142	U1082	G1022	U963	C902	A841	A782	C721
C1504	A1384	G1324	A1384	G1324	G1264	G1203	A1142A	U1083	U1023	C964	C903	G842	A782	A722
C1505	G1385	G1325	G1385	G1325	A1265	A1204	A1143	A1084	G1024	C965	C904	G843	A783	G723
C1445	U1326	U1326	U1386	U1326	G1266	U1205	G1144	A1085	G1025	G966	U905	G844	A784	U724
C1446	C1327	A1267	G1387	C1327	U1267	G1206	C1145	A1086	U1026	C967	G906	G845	G785	U725
G1447	G1328	A1268	G1388	G1328	C1268	C1207	C1146	G1087	U1027	G968	U907	C846	C786	G726
G1448	U1329	A1269	G1389	U1329	A1269	G1208	U1147	A1088	A1028	U969	C908	U847	U787	A727
A1449	C1330	C1270	U1390	C1330	C1270	G1209	A1148	G1089	A1029	C970	A909	G848	A788	G728
G1449A	U1391	G1271	U1391	A1331	G1271	A1210	G1149	U1090	U1090	C971	A910	A849	A789	G729
C1450	G1332	A1272	U1392	G1332	A1272	U1211	C1150	G1091	G1031	G972	A911	C850	C790	C730
C1513	A1333	U1273	A1333	G1212	G1212	G1212	C1150	G1091	A1032	A973	C912	U851	C791	C731
U1514	A1453	G1334	U1394	G1334	A1274	A1213	C1152	G1093	U1033	G974	U913	G852	G792	C732

G2330	G2331	G2340	C2205	C2140	U2079	A2019	G1959	G1899	G1830	G1770	G1684	A1634	C1574	C1515
G2332	G2333	G2342	C2206	G2141	G2080	A2020	A1960	A1900	G1831	C1771	G1695	G1635	C1575	U1516
A2333	A2334	G2273	C2207	C2142	G2081	C2021	C1961	A1901	C1832	G1772	G1696	G1636	U1517	G1517
G2335	G2336	A2274	C2208	G2143	A2082	U2022	C1962	A1902	C1833	A1773	G1697	A1637	C1576	G1518
A2336	A2337	G2275	C2209	U2144	G2083	G2023	U1963	G1903	C1834	C1774	G1698	C1638	U1578	U1519
A2338	A2339	G2276	C2210	G2145	G2084	G2024	U1964	G1904	G1835	G1775	G1699	U1639	A1579	G1520
G2340	G2341	G2277	C2211	C2146	G2085	C2025	C1965	C1905	C1836	G1776	A1700	C1640	A1580	G1521
G2342	G2343	G2278	A2212	G2147	G2086	C2026	A1966	G1906	C1837	U1777	A1701	A1641	G1581	G1522
G2344	G2345	A2278	C2213	G2148	G2087	G2027	C1967	G1907	C1838	U1778	G1702	G1642	C1582	U1523
G2346	A2346	G2279	C2214	G2149	G2088	U2028	G1968	G1908	C1839	U1779	G1703	G1643	A1583	G1524
G2347	G2348	G2280	C2215	U2150	U2089	G2029	A1969	C1909	C1840	A1780	G1704	C1644	C1585	G1525
U2348	G2349	G2281	G2216	G2151	G2090	A2030	A1970	G1910	U1841	C1781	G1705	G1645	A1586	G1526
G2350	G2351	G2282	G2217	G2152	U2091	A2031	A1971	G1911	G1842	C1782	U1706	G1646	A1587	G1527
G2352	G2353	G2283	C2218	G2153	U2092	G2032	A1972	A1912	C1843	U1783	G1707	G1647	A1588	A1528
G2354	G2355	G2284	G2219	G2154	G2093	A2033	G1973	A1913	C1844	A1784	C1708	G1648	A1589	A1529
G2356	G2357	G2285	A2225	G2155	G2094	U2034	C1974	G1914	G1845	A1785	U1709	G1649	U1590	U1530
G2358	G2359	A2286	C2226	G2156	G2095	C2035	G1975	U1915	G1846	A1786	C1710	G1650	C1531	C1531
G2360	G2361	A2287	C2227	G2157	U2096	C2036	U1976	U1916	A1847	A1787	G1711	G1651	C1592	G1532
G2362	G2363	G2288	G2228	A2158	G2097	G2037	A1977	A1917	A1848	C1788	C1712	A1652	C1593	C1533
G2364	G2365	G2289	C2229	G2159	U2098	G2038	A1978	A1918	G1849	A1789	U1716	G1653	G1594	G1534
G2366	G2367	G2290	G2230	G2160	U2099	C2039	A1979	A1919	C1850	C1790	G1717	A1654	U1595	U1535
G2368	G2369	G2291	C2231	C2161	G2100	C2040	G1980	C1920	U1851	A1791	G1718	C1655	A1596	A1536
G2370	G2371	G2292	G2232	G2162	G2101	U2041	A1981	G1921	C1852	G1792	G1725	C1656	A1597	C1537
G2372	G2373	G2293	C2233	C2163	U2102	A2042	C1982	G1922	A1853	C1793	G1726	C1657	C1598	G1538
G2374	G2375	G2294	G2234	C2164	C2103	C2043	C1983	U1923	A1854	U1794	U1727	C1658	G1599	G1539
G2376	G2377	G2295	G2235	G2165	G2104	C2044	G1984	C1924	G1855	C1795	G1728	U1659	C1800	G1540
G2378	G2379	U2296	C2236	G2166	C2105	C2045	G1985	C1925	G1856	U1796	A1729	C1660	U1601	U1541
G2380	G2381	G2297	G2237	U2167	G2106	G2046	A1986	U1926	G1857	C1797	U1730	G1661	C1542	G1542
G2382	G2383	A2298	C2238	G2168	C2107	U2047	G1987	A1927	G1858	U1798	G1731	C1662	A1603	A1543
G2384	G2385	G2299	G2239	A2169	C2108	C2048	C1988	A1928	A1859	G1799	A1732	C1663	C1604	C1544
G2386	G2387	G2300	C2240	A2170	G2110	C2049	G1989	G1929	G1860	C1800	G1733	A1664	C1605	A1545
G2388	G2389	G2301	A2241	C2171	G2111	C2050	C1990	G1930	G1861	G1801	C1734	A1665	G1806	A1545A
G2390	G2391	G2302	G2242	U2172	G2112	A2051	U1991	U1931	G1862	A1802	C1735	G1666	C1607	A1546
G2392	G2393	G2303	C2243	A2173	U2113	G2052	C1992	A1932	G1863	A1803	C1741	G1667	A1608	C1547
G2394	G2395	G2304	U2244	C2174	A2114	G2053	U1993	G1933	U1864	C1804	G1742	A1668	C1548	G1548
G2396	G2397	A2305	U2245	C2175	G2115	A2054	C1994	C1934	G1865	U1805	G1743	A1669	A1610	C1549
G2398	G2399	G2306	G2246	A2176	G2116	C2055	U1995	G1935	C1870	C1806	G1746	C1670	C1550	G1550
G2400	G2401	G2307	A2247	C2177	A2117	G2056	C1996	A1936	A1871	G1807	G1747	U1671	C1611	C1551
G2402	G2403	G2308	C2248	G2178	U2118	A2057	G1997	A1937	A1872	U1808	G1748	C1672	C1612	G1551
G2404	G2405	A2309	U2249	C2179	A2119	A2058	C1998	A1938	G1873	A1809	U1749	U1673	G1562	G1552
G2406	G2407	G2310	G2250	U2180	G2120	A2059	C1999	U1939	C1879	G1810	G1750	G1674	A1614	A1553
G2408	G2409	A2311	C2251	G2181	G2121	A2060	G2000	U1940	C1880	A1811	C1751	C1675	C1615	A1554
G2410	G2411	G2312	G2252	G2182	U2122	G2061	A2001	C1941	C1881	A1812	G1752	A1676	A1616	G1555
G2412	G2413	C2313	C2253	C2183	G2123	A2062	G2002	C1942	C1882	G1813	G1753	A1677	C1617	C1556
G2414	G2415	G2314	C2254	G2184	U2124	C2063	G2003	U1943	G1883	G1814	C1754	G1678	G1619	C1557
G2416	G2417	A2315	G2255	C2185	G2125	C2064	G2004	U1944	A1884	A1815	A1755	U1679	G1588	G1558
G2418	G2419	G2316	C2256	G2186	A2126	C2065	A2005	G1945	C1885	G1816	G1756	U1680	G1620	G1559
G2420	G2421	G2317	U2257	G2187	G2127	C2066	C2006	U1946	C1886	G1817	U1757	G1681	U1621	G1560
G2422	G2423	A2318	C2258	C2188	C2128	G2067	C2007	C1947	C1887	U1818	G1758	G1682	G1622	G1561
G2424	G2425	G2319	G2259	U2189	C2129	U2068	C2008	G1948	G1888	A1819	A1759	C1683	G1623	A1562
G2426	G2427	A2320	C2260	G2190	U2130	G2069	C2009	G1949	A1889	U1820	A1760	G1684	C1624	G1563
G2428	G2429	G2321	G2261	G2191	G2131	A2070	G2010	U1950	A1890	A1821	C1761	C1685	C1625	G1564
G2430	G2431	A2322	C2262	G2192	U2132	A2071	U2011	G1951	C1891	G1822	A1762	C1686	G1626	G1565
G2432	G2433	G2323	C2263	G2193	G2133	G2072	G2012	A1952	C1892	G1823	G1763	G1687	G1627	A1566
G2434	G2435	G2324	C2264	G2194	A2134	C2073	A2013	A1953	G1893	G1824	G1764	U1688	G1628	A1567
G2436	G2437	A2325	U2265	C2195	U2135	U2074	A2014	G1954	C1894	A1825	C1765	A1689	U1629	G1568
G2438	G2439	G2326	A2266	C2196	C2136	U2075	A2015	U1955	C1895	G1826	U1766	A1690	C1630	A1569
G2440	G2441	A2327	C2267	U2197	G2137	U2076	A2016	U1956	G1896	C1827	C1767	C1691	C1631	A1570
G2442	G2443	G2328	A2268	U2198	C2138	A2077	U2017	U1957	G1897	A1828	U1768	U1692	A1632	A1571
G2444	G2445	G2329	A2269	A2199	C2139	C2078	G2018	C1958	U1898	A1829	G1769	U1693	G1633	G1572



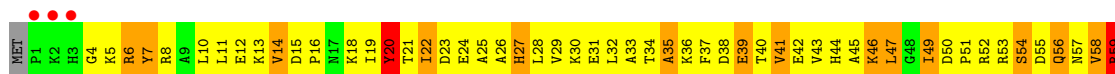
• Molecule 25: 5S ribosomal RNA

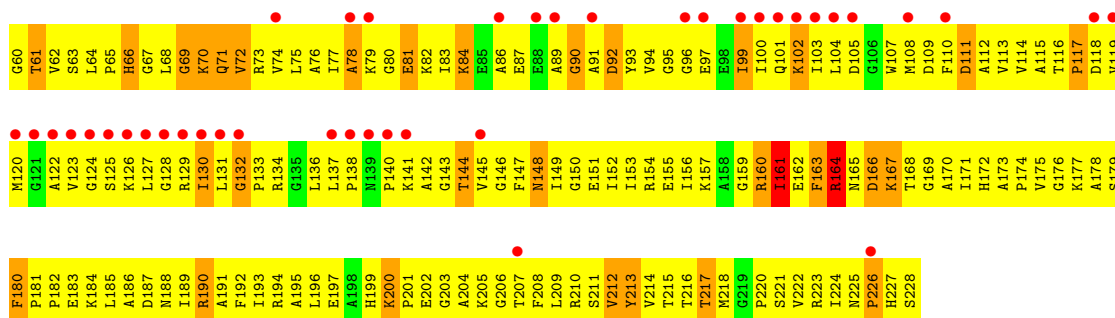
Chain BB:



• Molecule 26: 50S ribosomal protein L1

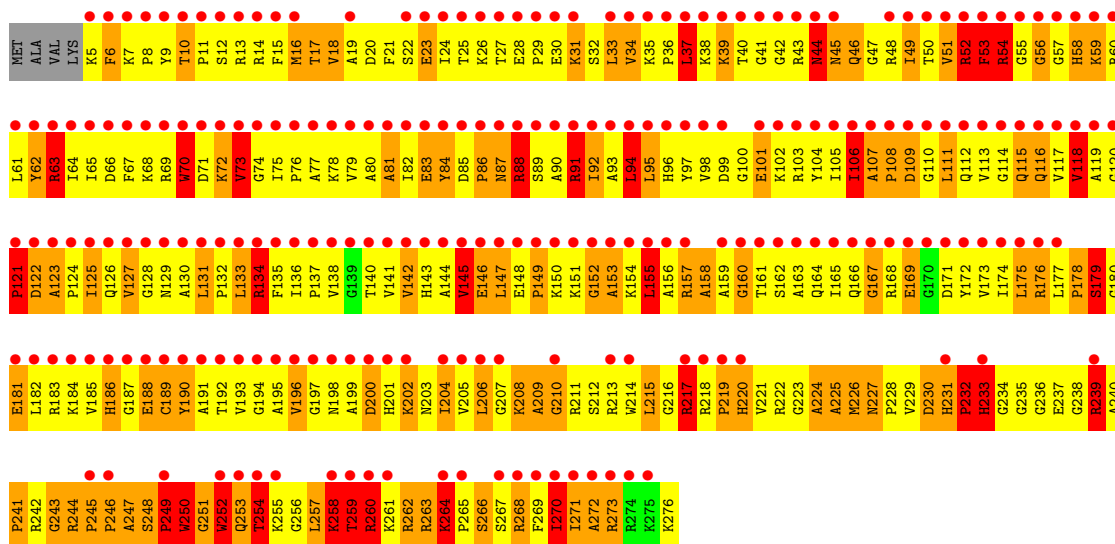
Chain BC:





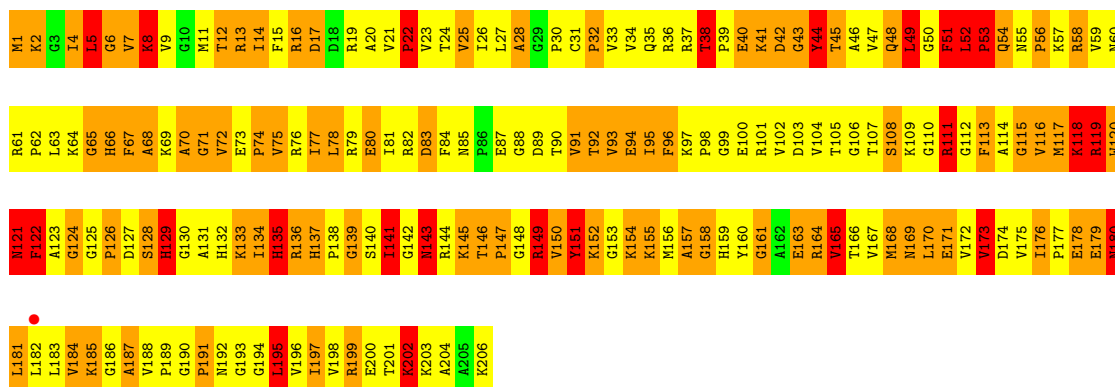
• Molecule 27: 50S ribosomal protein L2

Chain BD:



• Molecule 28: 50S ribosomal protein L3

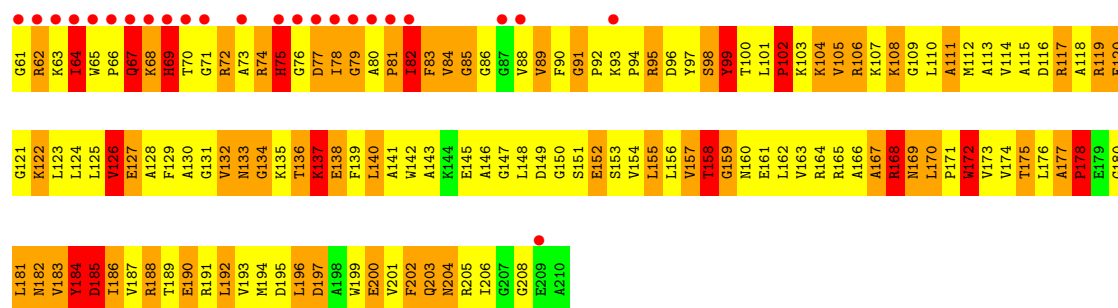
Chain BE:



• Molecule 29: 50S ribosomal protein L4

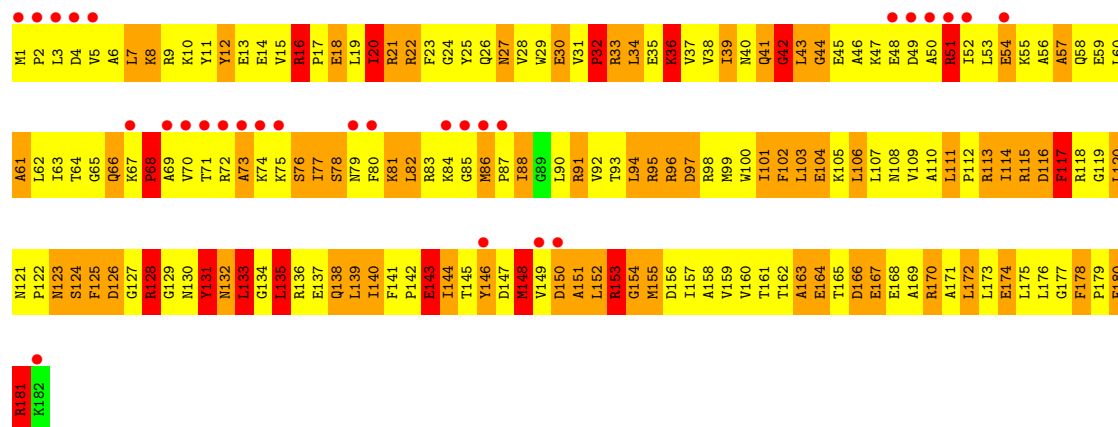
Chain BF:





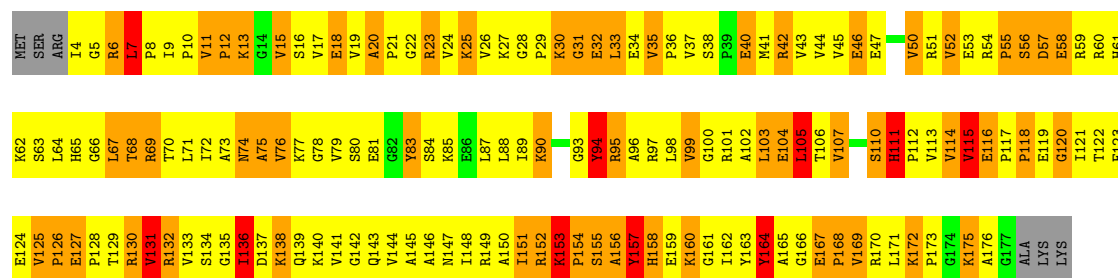
• Molecule 30: 50S ribosomal protein L5

Chain BG:



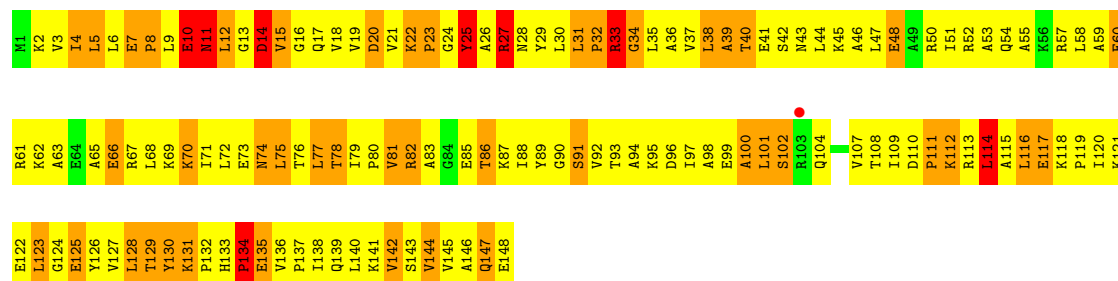
• Molecule 31: 50S ribosomal protein L6

Chain BH:



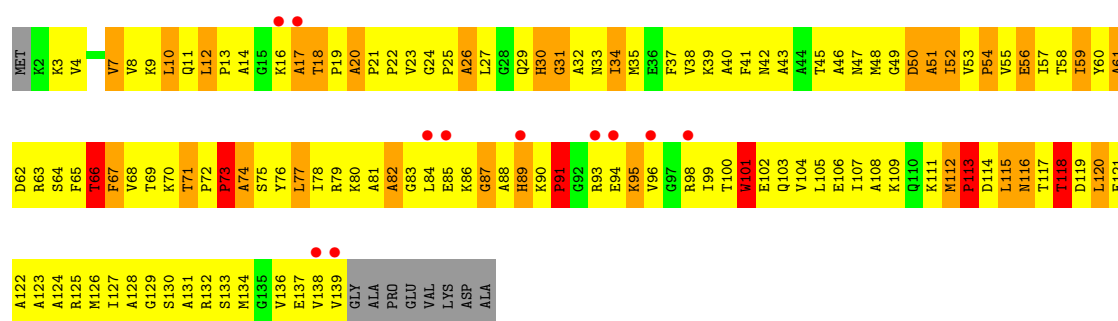
• Molecule 32: 50S ribosomal protein L9

Chain BK:



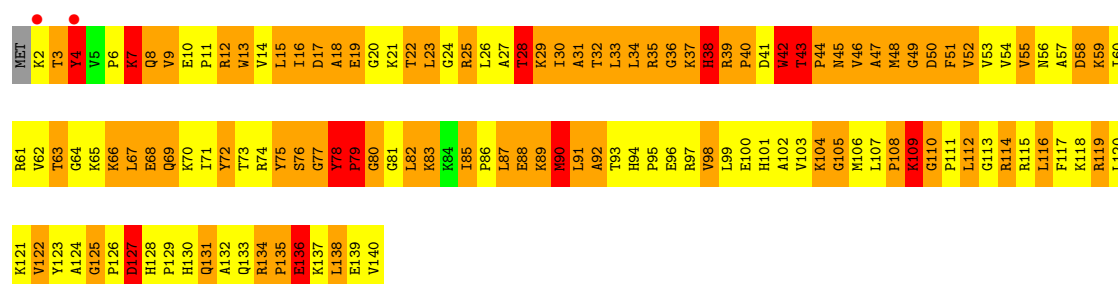
- Molecule 33: 50S ribosomal protein L11

Chain BL:



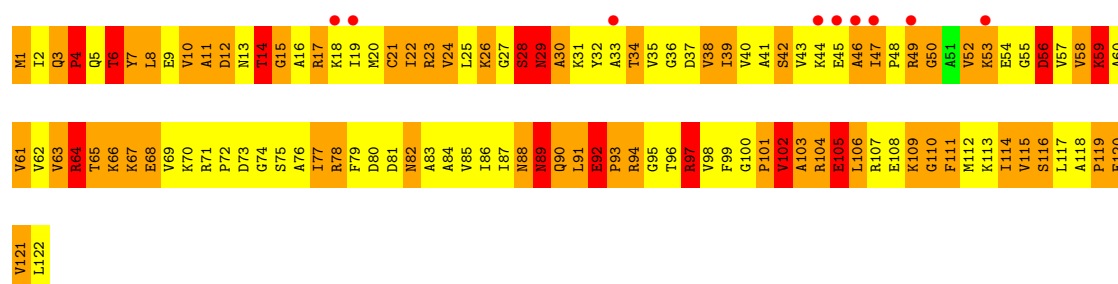
- Molecule 34: 50S ribosomal protein L13

Chain BM:



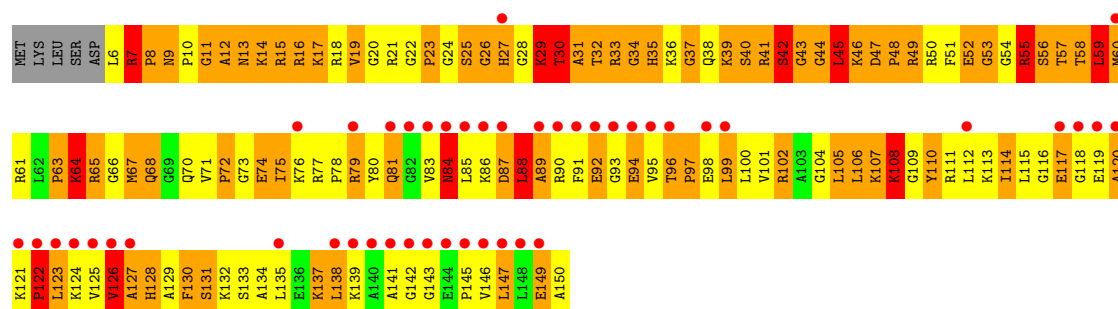
- Molecule 35: 50S ribosomal protein L14

Chain BN:



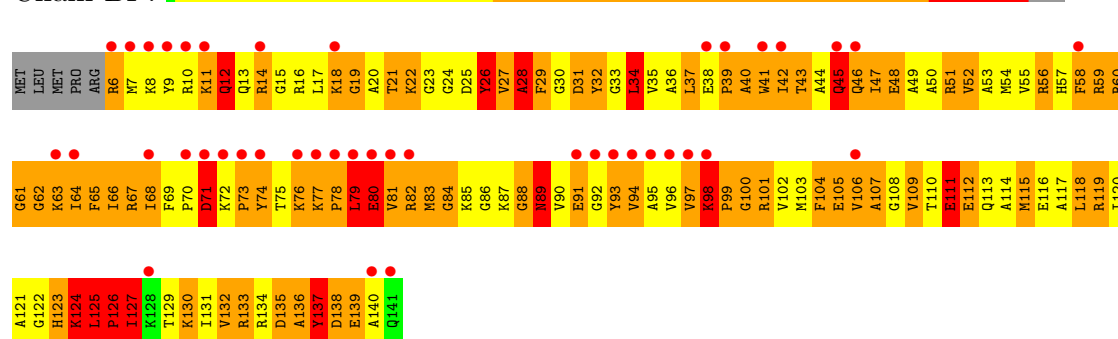
- Molecule 36: 50S ribosomal protein L15

Chain BO:



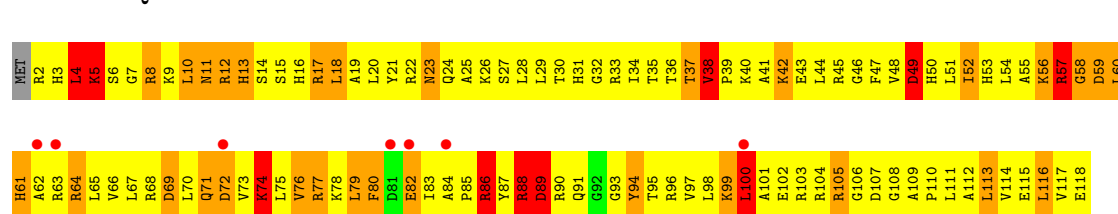
- Molecule 37: 50S ribosomal protein L16

Chain BP:



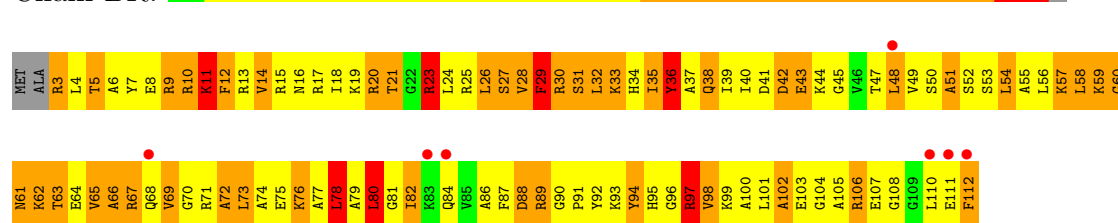
- Molecule 38: 50S ribosomal protein L17

Chain BQ:



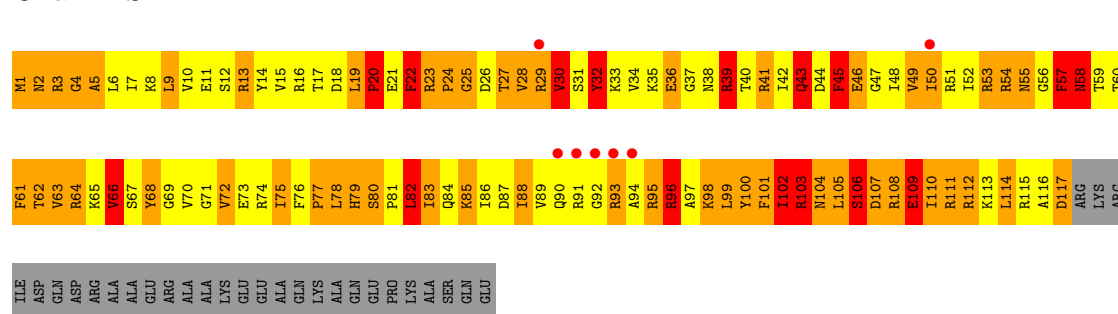
- Molecule 39: 50S ribosomal protein L18

Chain BR:



- Molecule 40: 50S ribosomal protein L19

Chain BS:



- Molecule 41: 50S ribosomal protein L20

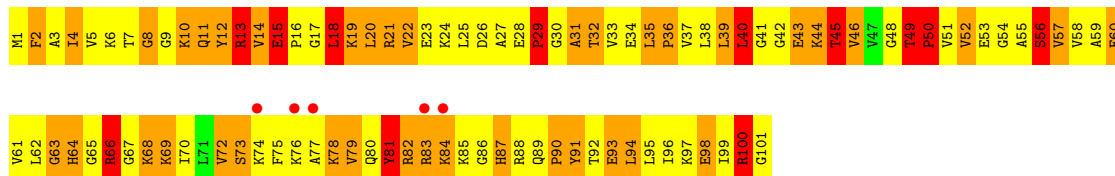
Chain BT:





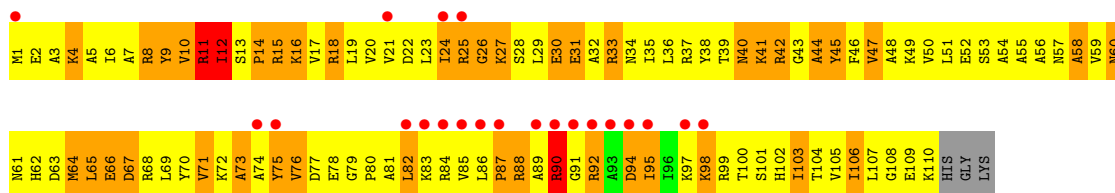
• Molecule 42: 50S ribosomal protein L21

Chain BU:



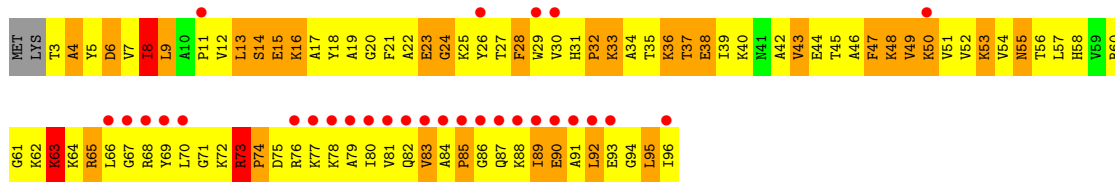
• Molecule 43: 50S ribosomal protein L22

Chain BV:



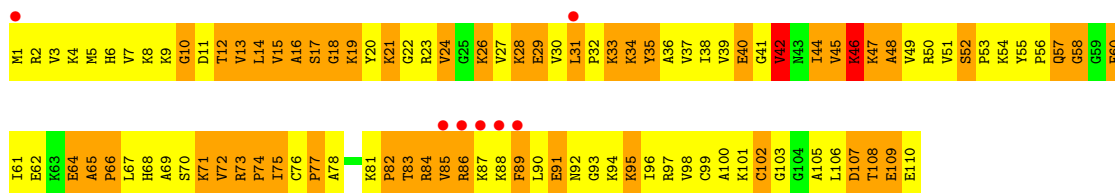
• Molecule 44: 50S ribosomal protein L23

Chain BW:



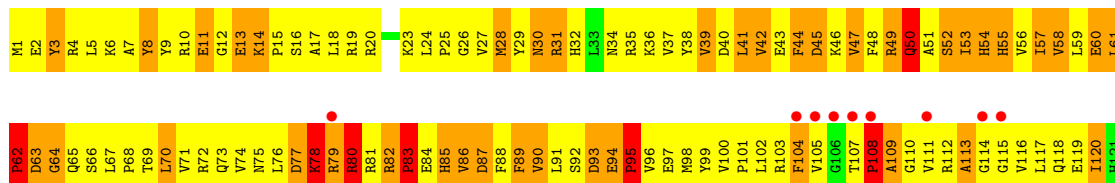
• Molecule 45: 50S ribosomal protein L24

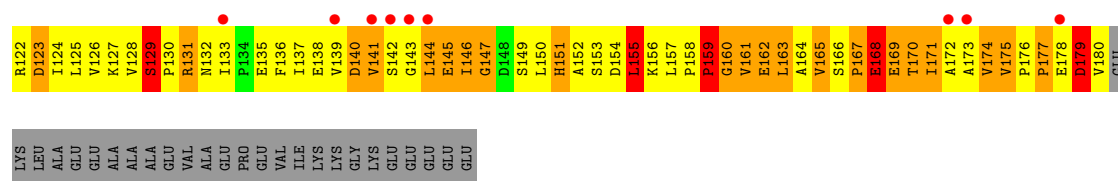
Chain BX:



• Molecule 46: 50S ribosomal protein L25

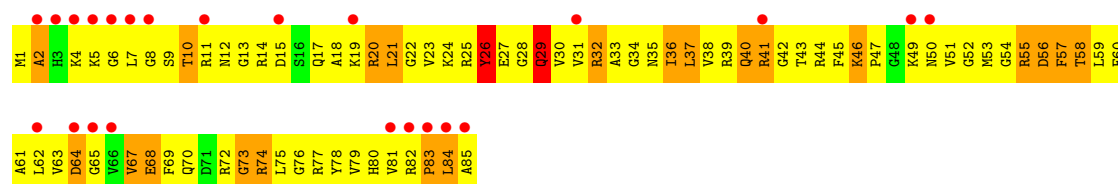
Chain BY:





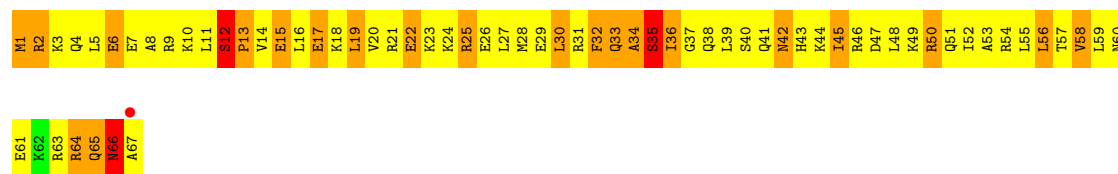
• Molecule 47: Ribosomal protein L27

Chain BZ:



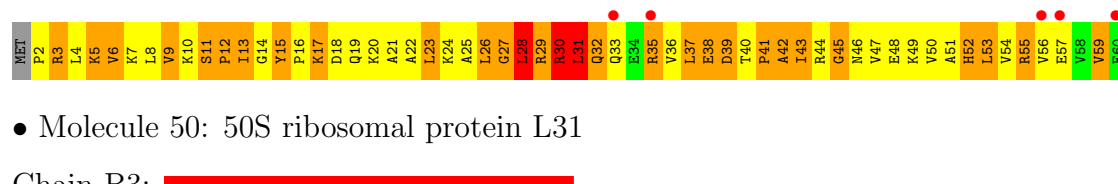
• Molecule 48: 50S ribosomal protein L29

Chain B1:



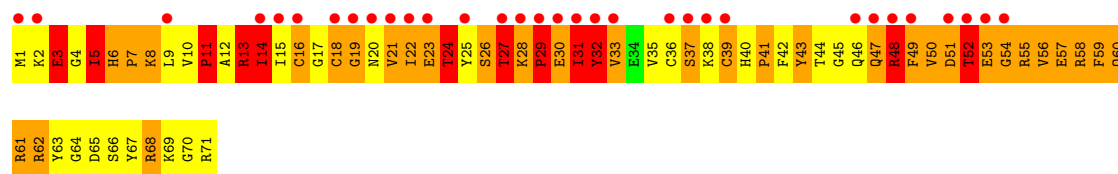
• Molecule 49: 50S ribosomal protein L30

Chain B2:



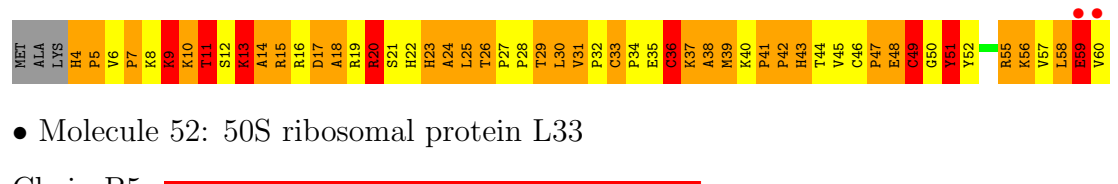
• Molecule 50: 50S ribosomal protein L31

Chain B3:



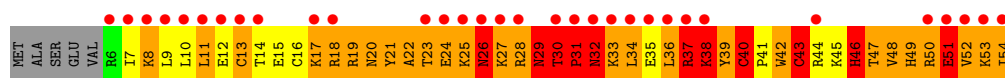
• Molecule 51: 50S ribosomal protein L32

Chain B4:



• Molecule 52: 50S ribosomal protein L33

Chain B5:



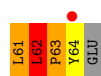
- Molecule 53: 50S ribosomal protein L34

Chain B6:



- Molecule 54: 50S ribosomal protein L35

Chain B7:



- Molecule 55: 50S ribosomal protein L36

Chain B8:



4 Data and refinement statistics

Property	Value	Source
Space group	I 4 2 2	Depositor
Cell constants a, b, c, α , β , γ	508.54Å 508.54Å 806.29Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	300.00 – 5.50 430.13 – 4.98	Depositor EDS
% Data completeness (in resolution range)	96.7 (300.00-5.50) 99.1 (430.13-4.98)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.00 (at 4.88Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.243 , 0.326 0.306 , 0.344	Depositor DCC
R_{free} test set	7981 reflections (4.99%)	DCC
Wilson B-factor (Å ²)	108.9	Xtriage
Anisotropy	0.045	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.07 , 22.7	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle L \rangle = 0.53$, $\langle L^2 \rangle = 0.37$	Xtriage
Outliers	1 of 226745 reflections (0.000%)	Xtriage
F_o, F_c correlation	0.89	EDS
Total number of atoms	151691	wwPDB-VP
Average B, all atoms (Å ²)	226.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.63% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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	AA	0.87	32/36438 (0.1%)	1.08	147/56869 (0.3%)
2	A1	0.67	1/1133 (0.1%)	0.93	2/1753 (0.1%)
3	AB	0.70	1/1813 (0.1%)	1.02	9/2823 (0.3%)
3	AC	0.98	2/1813 (0.1%)	0.93	2/2823 (0.1%)
3	AD	0.69	1/1813 (0.1%)	0.92	2/2823 (0.1%)
4	AE	0.64	0/1935	1.00	4/2609 (0.2%)
5	AF	0.55	0/1636	0.92	4/2205 (0.2%)
6	AG	0.64	1/1733 (0.1%)	0.98	3/2318 (0.1%)
7	AH	0.63	0/1162	1.01	3/1564 (0.2%)
8	AI	0.60	0/856	0.95	0/1154
9	AJ	0.57	0/1276	0.90	3/1709 (0.2%)
10	AK	0.62	0/1136	1.01	3/1527 (0.2%)
11	AL	0.54	0/1029	0.83	0/1379
12	AM	0.48	0/807	0.89	1/1085 (0.1%)
13	AN	0.62	0/900	0.98	0/1213
14	AO	0.60	0/986	1.00	3/1320 (0.2%)
15	AP	0.50	0/1008	0.91	2/1347 (0.1%)
16	AQ	0.55	0/501	0.96	1/664 (0.2%)
17	AR	0.62	0/745	0.95	0/992
18	AS	0.62	0/716	0.95	1/963 (0.1%)
19	AT	0.68	1/870 (0.1%)	0.99	2/1159 (0.2%)
20	AU	0.59	0/603	1.01	1/799 (0.1%)
21	AV	0.51	0/661	0.92	0/890
22	AW	0.65	0/765	1.00	2/1007 (0.2%)
23	AX	0.45	0/212	0.80	0/277
24	BA	0.98	108/69685 (0.2%)	1.10	361/108786 (0.3%)
25	BB	0.83	4/2954 (0.1%)	0.99	7/4606 (0.2%)
26	BC	0.54	0/1775	0.86	0/2393
27	BD	0.72	2/2174 (0.1%)	1.19	12/2927 (0.4%)
28	BE	0.75	0/1611	1.16	13/2171 (0.6%)
29	BF	0.64	0/1660	1.03	4/2247 (0.2%)
30	BG	0.62	0/1507	1.06	4/2027 (0.2%)
31	BH	0.59	0/1354	0.99	4/1831 (0.2%)
32	BK	0.60	0/1170	1.02	4/1581 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
33	BL	0.61	0/1044	0.94	1/1415 (0.1%)
34	BM	0.77	1/1140 (0.1%)	1.16	8/1537 (0.5%)
35	BN	0.92	1/942 (0.1%)	1.31	10/1268 (0.8%)
36	BO	0.71	0/1123	1.12	5/1493 (0.3%)
37	BP	0.72	0/1100	1.19	8/1470 (0.5%)
38	BQ	0.70	0/974	1.06	2/1302 (0.2%)
39	BR	0.72	0/887	1.06	4/1180 (0.3%)
40	BS	0.85	0/990	1.31	9/1325 (0.7%)
41	BT	0.76	0/982	1.08	0/1306
42	BU	0.87	1/790 (0.1%)	1.28	9/1057 (0.9%)
43	BV	0.66	0/886	1.04	1/1189 (0.1%)
44	BW	0.57	0/756	0.93	0/1015
45	BX	0.54	0/857	1.04	2/1142 (0.2%)
46	BY	0.66	0/1467	1.11	7/1992 (0.4%)
47	BZ	0.65	0/679	1.04	1/902 (0.1%)
48	B1	0.59	0/569	0.88	0/751
49	B2	0.59	0/474	1.09	2/635 (0.3%)
50	B3	0.84	1/594 (0.2%)	1.31	8/795 (1.0%)
51	B4	0.71	0/459	1.16	3/621 (0.5%)
52	B5	0.85	1/433 (0.2%)	1.36	5/576 (0.9%)
53	B6	0.73	0/438	1.01	0/575
54	B7	0.60	0/523	1.14	5/690 (0.7%)
55	B8	0.59	0/310	1.08	1/407 (0.2%)
All	All	0.86	158/164854 (0.1%)	1.07	695/246484 (0.3%)

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	AA	0	175
2	A1	0	3
3	AB	0	6
3	AC	0	8
3	AD	0	8
6	AG	0	1
8	AI	0	1
13	AN	0	1
15	AP	0	1
16	AQ	0	1
24	BA	0	463

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
25	BB	0	18
26	BC	0	1
28	BE	0	1
34	BM	0	1
37	BP	0	1
40	BS	0	1
42	BU	0	1
50	B3	0	1
51	B4	0	1
All	All	0	694

All (158) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	1203	G	O3'-P	-34.70	1.19	1.61
24	BA	2500	U	C4-O4	18.52	1.38	1.23
24	BA	2500	U	O3'-P	-15.17	1.43	1.61
24	BA	607	U	N3-C4	-14.53	1.25	1.38
24	BA	2448	A	O3'-P	-14.42	1.43	1.61
24	BA	621	A	C6-N6	14.11	1.45	1.33
24	BA	1240	U	O3'-P	-13.46	1.45	1.61
24	BA	2756	U	O3'-P	13.33	1.77	1.61
24	BA	607	U	C2-N3	-13.15	1.28	1.37
24	BA	1993	U	N1-C2	11.42	1.48	1.38
24	BA	607	U	C5-C6	-10.63	1.24	1.34
24	BA	2491	U	N1-C2	10.59	1.48	1.38
24	BA	1202	C	O3'-P	-9.82	1.49	1.61
1	AA	1064	G	C5-C6	-9.61	1.32	1.42
1	AA	530	G	N9-C4	-9.56	1.30	1.38
24	BA	2499	C	O3'-P	9.37	1.72	1.61
24	BA	2755	C	O3'-P	8.84	1.71	1.61
24	BA	607	U	C4-O4	-8.62	1.16	1.23
24	BA	2460	U	N1-C2	8.58	1.46	1.38
1	AA	1493	A	C5-C6	8.51	1.48	1.41
24	BA	1956	U	N1-C2	8.36	1.46	1.38
1	AA	1494	G	C5-C6	8.33	1.50	1.42
1	AA	1492	A	N9-C4	8.30	1.42	1.37
24	BA	2447	G	O3'-P	-7.81	1.51	1.61
24	BA	2035	G	N9-C4	7.79	1.44	1.38
1	AA	1064	G	C2-N3	7.76	1.39	1.32
34	BM	42	TRP	CB-CG	7.76	1.64	1.50
24	BA	1	G	OP3-P	-7.75	1.51	1.61

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	687	C	N1-C2	7.67	1.47	1.40
42	BU	81	TYR	CB-CG	7.56	1.62	1.51
24	BA	1204	A	O3'-P	7.50	1.70	1.61
24	BA	607	U	N1-C6	7.50	1.44	1.38
24	BA	775	G	N9-C4	7.47	1.44	1.38
25	BB	-1	A	OP3-P	-7.37	1.52	1.61
3	AB	1	G	OP3-P	-7.32	1.52	1.61
1	AA	974	A	C2-N3	7.28	1.40	1.33
1	AA	974	A	C6-N1	7.22	1.40	1.35
3	AD	1	G	OP3-P	-7.18	1.52	1.61
3	AC	1	G	OP3-P	-7.07	1.52	1.61
24	BA	607	U	C2-O2	-7.03	1.16	1.22
24	BA	2448	A	C5'-C4'	7.02	1.59	1.51
24	BA	1763	G	C6-O6	6.93	1.30	1.24
24	BA	1313	U	N1-C2	6.91	1.44	1.38
24	BA	621	A	N7-C5	-6.73	1.35	1.39
24	BA	2491	U	C2-N3	6.71	1.42	1.37
2	A1	3	U	OP3-P	-6.71	1.53	1.61
24	BA	1956	U	N3-C4	6.66	1.44	1.38
1	AA	1492	A	C5-C6	6.62	1.47	1.41
24	BA	688	U	N1-C2	6.62	1.44	1.38
24	BA	726	G	N9-C4	6.61	1.43	1.38
1	AA	37	U	C4-O4	-6.56	1.18	1.23
24	BA	2522	U	N1-C2	6.46	1.44	1.38
24	BA	640	C	N1-C2	-6.46	1.33	1.40
1	AA	1493	A	C5-C4	6.45	1.43	1.38
24	BA	1240	U	N3-C4	-6.36	1.32	1.38
1	AA	132	C	N1-C2	-6.31	1.33	1.40
24	BA	1917	U	N1-C2	-6.30	1.32	1.38
24	BA	1785	A	C6-N1	-6.30	1.31	1.35
24	BA	2460	U	C4-O4	6.29	1.28	1.23
1	AA	1064	G	C5-C4	-6.24	1.33	1.38
1	AA	1064	G	N1-C2	6.24	1.42	1.37
24	BA	2588	G	C6-N1	-6.22	1.35	1.39
1	AA	397	A	C5-C6	-6.18	1.35	1.41
24	BA	1775	U	C5-C6	-6.16	1.28	1.34
24	BA	930	U	N1-C2	-6.10	1.33	1.38
24	BA	1994	C	C2-N3	-6.08	1.30	1.35
1	AA	1494	G	C3'-O3'	6.03	1.50	1.42
1	AA	974	A	N9-C4	6.02	1.41	1.37
24	BA	1786	A	N9-C4	6.02	1.41	1.37
24	BA	1674	G	N9-C4	-6.00	1.33	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	1303	G	C5-C6	5.98	1.48	1.42
24	BA	1993	U	C2-N3	5.96	1.42	1.37
24	BA	621	A	C5-C4	5.91	1.42	1.38
1	AA	1492	A	C5-C4	5.90	1.42	1.38
24	BA	1626	G	C5'-C4'	5.86	1.58	1.51
1	AA	579	G	C3'-O3'	5.86	1.50	1.42
25	BB	16	G	N9-C4	-5.83	1.33	1.38
1	AA	196	A	O3'-P	-5.80	1.54	1.61
24	BA	1917	U	C4-C5	-5.80	1.38	1.43
25	BB	72	G	N9-C4	5.74	1.42	1.38
19	AT	21	VAL	CA-CB	-5.74	1.42	1.54
24	BA	2073	C	C2-O2	-5.73	1.19	1.24
24	BA	2195	C	C3'-O3'	5.72	1.50	1.42
24	BA	2548	G	C2-N2	-5.71	1.28	1.34
1	AA	1492	A	C6-N6	5.68	1.38	1.33
1	AA	579	G	O3'-P	5.67	1.68	1.61
24	BA	775	G	C2-N3	5.67	1.37	1.32
1	AA	173	U	O3'-P	5.64	1.68	1.61
24	BA	1786	A	C2-N3	5.62	1.38	1.33
1	AA	37	U	C5-C6	-5.61	1.29	1.34
24	BA	2063	C	N1-C2	5.60	1.45	1.40
24	BA	2460	U	C2-N3	5.59	1.41	1.37
24	BA	2460	U	N3-C4	5.59	1.43	1.38
1	AA	309	G	N9-C4	-5.59	1.33	1.38
24	BA	2445	G	C6-O6	-5.56	1.19	1.24
24	BA	860	U	C5-C6	-5.54	1.29	1.34
24	BA	1775	U	N1-C6	-5.54	1.32	1.38
1	AA	697	U	C2-N3	5.53	1.41	1.37
24	BA	2491	U	N3-C4	5.53	1.43	1.38
24	BA	2255	G	N1-C2	5.50	1.42	1.37
24	BA	717	G	N9-C4	-5.49	1.33	1.38
24	BA	270(V)	G	N9-C4	-5.48	1.33	1.38
1	AA	1493	A	N9-C8	5.46	1.42	1.37
24	BA	1359	A	C5-C6	-5.44	1.36	1.41
24	BA	2489	G	C6-O6	-5.43	1.19	1.24
24	BA	2852	G	N1-C2	-5.43	1.33	1.37
24	BA	860	U	N1-C6	-5.42	1.33	1.38
24	BA	916	G	N9-C4	5.41	1.42	1.38
1	AA	651	C	N1-C2	5.40	1.45	1.40
24	BA	1778	U	N1-C2	5.40	1.43	1.38
1	AA	697	U	N3-C4	5.37	1.43	1.38
27	BD	54	ARG	CG-CD	5.36	1.65	1.51

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	1994	C	C5-C6	-5.36	1.30	1.34
24	BA	950	G	N9-C4	-5.35	1.33	1.38
24	BA	2358	G	N9-C4	-5.35	1.33	1.38
35	BN	105	GLU	CB-CG	5.34	1.62	1.52
24	BA	1468	C	N1-C2	-5.33	1.34	1.40
24	BA	2604	U	N3-C4	-5.33	1.33	1.38
24	BA	1938	A	O3'-P	5.32	1.67	1.61
24	BA	1956	U	C2-N3	5.32	1.41	1.37
24	BA	2620	C	C2-O2	-5.32	1.19	1.24
24	BA	1372	U	C5-C6	-5.31	1.29	1.34
25	BB	8	U	N1-C2	-5.30	1.33	1.38
24	BA	2334	G	N9-C4	5.29	1.42	1.38
24	BA	1785	A	C6-N6	-5.27	1.29	1.33
24	BA	2459	A	N9-C4	5.27	1.41	1.37
24	BA	1524	G	C2-N3	-5.27	1.28	1.32
24	BA	1917	U	C5-C6	-5.24	1.29	1.34
24	BA	1950	G	N1-C2	-5.24	1.33	1.37
24	BA	985	C	C2-O2	-5.23	1.19	1.24
24	BA	1426	G	N9-C4	-5.23	1.33	1.38
24	BA	2548	G	C6-N1	-5.22	1.35	1.39
24	BA	1951	U	N1-C2	5.22	1.43	1.38
24	BA	1524	G	N9-C4	-5.21	1.33	1.38
24	BA	2604	U	N1-C2	-5.20	1.33	1.38
52	B5	43	CYS	CB-SG	-5.19	1.73	1.81
24	BA	2560	C	C2-O2	-5.17	1.19	1.24
1	AA	592	G	N9-C4	5.15	1.42	1.38
1	AA	697	U	N1-C2	5.15	1.43	1.38
24	BA	2462	U	C4-O4	-5.14	1.19	1.23
24	BA	2593	U	N1-C2	-5.13	1.33	1.38
3	AC	1	G	P-O5'	5.12	1.64	1.59
24	BA	1516	U	N1-C2	-5.11	1.33	1.38
24	BA	1742	C	N1-C2	-5.10	1.35	1.40
24	BA	1778	U	C4-O4	-5.09	1.19	1.23
1	AA	114	U	N3-C4	-5.09	1.33	1.38
6	AG	12	CYS	CA-CB	5.08	1.65	1.53
24	BA	2461	C	C2-N3	-5.08	1.31	1.35
24	BA	1778	U	C2-N3	5.07	1.41	1.37
24	BA	2571	C	C2-O2	-5.07	1.19	1.24
24	BA	978	G	C2-N3	-5.06	1.28	1.32
27	BD	250	TRP	CB-CG	-5.06	1.41	1.50
24	BA	2553	G	C2-N2	-5.05	1.29	1.34
24	BA	1524	G	C6-N1	-5.04	1.36	1.39

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	2491	U	O4'-C1'	5.04	1.48	1.41
24	BA	2073	C	N1-C2	-5.03	1.35	1.40
50	B3	48	ARG	CG-CD	5.02	1.64	1.51
24	BA	1776	G	C6-O6	-5.02	1.19	1.24

All (695) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1064	G	N1-C2-N2	-71.65	51.71	116.20
1	AA	1064	G	N3-C2-N2	57.72	160.30	119.90
24	BA	1203	G	P-O3'-C3'	27.70	152.94	119.70
24	BA	2448	A	C5'-C4'-O4'	-27.31	76.33	109.10
1	AA	1064	G	N1-C2-N3	-25.51	108.59	123.90
3	AB	18	G	OP2-P-O3'	14.85	137.87	105.20
1	AA	1064	G	C2-N3-C4	14.60	119.20	111.90
24	BA	1204	A	N9-C1'-C2'	14.59	132.97	114.00
24	BA	607	U	C5-C6-N1	-12.65	116.38	122.70
1	AA	172	A	OP1-P-O3'	12.61	132.95	105.20
24	BA	2384	G	N9-C1'-C2'	12.21	129.87	114.00
3	AB	19	G	O3'-P-O5'	-11.58	82.00	104.00
1	AA	973	G	O3'-P-O5'	11.50	125.85	104.00
1	AA	1064	G	C6-N1-C2	11.38	131.93	125.10
24	BA	2459	A	N9-C1'-C2'	11.34	128.74	114.00
24	BA	2500	U	N3-C4-O4	11.19	127.23	119.40
1	AA	173	U	P-O3'-C3'	11.06	132.97	119.70
24	BA	2500	U	C5-C4-O4	-10.84	119.39	125.90
24	BA	2446	G	P-O3'-C3'	10.71	132.56	119.70
24	BA	1800	C	N1-C1'-C2'	-10.70	100.09	114.00
24	BA	2490	G	N9-C1'-C2'	10.65	127.85	114.00
40	BS	66	VAL	N-CA-C	-10.56	82.48	111.00
24	BA	1938	A	N9-C1'-C2'	10.42	127.54	114.00
24	BA	1203	G	O3'-P-O5'	10.04	123.07	104.00
24	BA	607	U	N3-C4-O4	-9.91	112.46	119.40
24	BA	1992	G	N9-C1'-C2'	9.89	126.85	114.00
24	BA	1240	U	P-O3'-C3'	9.87	131.54	119.70
1	AA	88	C	O4'-C1'-N1	9.87	116.09	108.20
24	BA	2501	C	P-O3'-C3'	-9.86	107.86	119.70
1	AA	974	A	N9-C1'-C2'	9.78	126.72	114.00
24	BA	1809	A	O4'-C1'-N9	9.74	116.00	108.20
24	BA	2779	U	N1-C1'-C2'	-9.66	101.38	112.00
24	BA	1205	U	O4'-C1'-N1	9.64	115.91	108.20
24	BA	2460	U	N1-C1'-C2'	9.64	126.53	114.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	2581	G	N9-C1'-C2'	9.63	126.51	114.00
24	BA	2522	U	N1-C1'-C2'	9.61	126.49	114.00
1	AA	727	G	N9-C1'-C2'	-9.48	101.57	112.00
24	BA	2032	G	N9-C1'-C2'	9.46	126.29	114.00
1	AA	37	U	C5-C4-O4	-9.44	120.24	125.90
24	BA	801	G	N9-C1'-C2'	9.43	126.26	114.00
3	AB	18	G	OP1-P-O3'	-9.42	84.47	105.20
24	BA	1625	C	N1-C1'-C2'	9.41	126.23	114.00
24	BA	2755	C	OP1-P-O3'	-9.38	84.55	105.20
1	AA	793	U	N1-C1'-C2'	9.36	126.17	114.00
40	BS	29	ARG	N-CA-C	-9.35	85.77	111.00
52	B5	24	GLU	N-CA-C	9.33	136.19	111.00
24	BA	138	G	N9-C1'-C2'	-9.29	101.78	112.00
1	AA	1494	G	N9-C1'-C2'	9.29	126.08	114.00
24	BA	776	G	N9-C1'-C2'	9.28	126.06	114.00
24	BA	974(A)	C	N1-C1'-C2'	9.28	126.06	114.00
1	AA	1528	U	N1-C1'-C2'	9.21	125.97	114.00
5	AF	48	TYR	N-CA-C	-9.19	86.17	111.00
24	BA	1363	C	N1-C1'-C2'	-9.13	101.95	112.00
25	BB	119	A	N9-C1'-C2'	-9.10	101.99	112.00
24	BA	2756	U	P-O3'-C3'	9.09	130.60	119.70
24	BA	978	G	O4'-C1'-N9	9.01	115.41	108.20
24	BA	2459	A	C4-N9-C1'	8.96	142.42	126.30
24	BA	199	A	N9-C1'-C2'	8.94	125.62	114.00
24	BA	607	U	N3-C2-O2	-8.93	115.95	122.20
3	AB	18	G	P-O3'-C3'	-8.89	109.03	119.70
1	AA	397	A	C4-N9-C1'	8.87	142.26	126.30
24	BA	280	C	N1-C1'-C2'	8.86	125.52	114.00
24	BA	1951	U	N1-C1'-C2'	8.86	125.51	114.00
24	BA	2756	U	N1-C1'-C2'	8.76	125.39	114.00
1	AA	1133	G	N9-C1'-C2'	-8.74	102.38	112.00
24	BA	1939	U	O5'-P-OP1	-8.73	97.85	105.70
24	BA	1313	U	N1-C1'-C2'	8.64	125.23	114.00
1	AA	397	A	C8-N9-C1'	-8.64	112.16	127.70
24	BA	1786	A	C5-C6-N6	-8.58	116.84	123.70
24	BA	2459	A	C8-N9-C1'	-8.53	112.34	127.70
24	BA	1240	U	O3'-P-O5'	8.48	120.11	104.00
52	B5	39	TYR	N-CA-C	8.47	133.86	111.00
24	BA	621	A	N9-C1'-C2'	-8.46	102.70	112.00
24	BA	2501	C	O3'-P-O5'	8.45	120.05	104.00
24	BA	2755	C	OP2-P-O3'	8.45	123.78	105.20
35	BN	74	GLY	N-CA-C	-8.38	92.15	113.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	974	A	O3'-P-O5'	8.36	119.87	104.00
1	AA	451	A	N9-C1'-C2'	8.35	124.86	114.00
24	BA	1970	A	O4'-C1'-N9	8.28	114.82	108.20
24	BA	1489	U	O4'-C1'-N1	8.24	114.79	108.20
15	AP	81	LEU	CA-CB-CG	8.21	134.19	115.30
27	BD	63	ARG	N-CA-C	8.18	133.07	111.00
24	BA	1455	G	N9-C1'-C2'	-8.12	103.07	112.00
24	BA	1498	C	N1-C1'-C2'	8.08	124.51	114.00
1	AA	530	G	C4-N9-C1'	-8.07	116.01	126.50
24	BA	775	G	N9-C1'-C2'	8.02	124.42	114.00
24	BA	2051	A	N9-C1'-C2'	7.99	124.38	114.00
24	BA	730	C	N1-C1'-C2'	7.96	124.34	114.00
24	BA	2491	U	C2'-C3'-O3'	7.92	126.93	109.50
24	BA	2491	U	C5-C4-O4	-7.92	121.15	125.90
3	AB	25	C	N1-C1'-C2'	-7.91	103.30	112.00
24	BA	1778	U	C5-C4-O4	-7.84	121.20	125.90
24	BA	2491	U	O4'-C4'-C3'	-7.83	96.17	104.00
1	AA	792	A	N9-C1'-C2'	7.82	124.17	114.00
24	BA	1052	C	O4'-C1'-N1	7.79	114.44	108.20
1	AA	974	A	C5-C6-N6	-7.75	117.50	123.70
36	BO	45	LEU	CA-CB-CG	-7.74	97.49	115.30
24	BA	2076	U	N1-C1'-C2'	7.70	124.01	114.00
35	BN	15	GLY	N-CA-C	-7.64	94.00	113.10
29	BF	79	GLY	N-CA-C	-7.62	94.04	113.10
24	BA	1667	G	O4'-C1'-N9	7.62	114.30	108.20
24	BA	2491	U	O4'-C1'-C2'	-7.62	98.18	105.80
27	BD	251	GLY	N-CA-C	-7.60	94.10	113.10
1	AA	1166	G	N9-C1'-C2'	-7.60	103.64	112.00
24	BA	196	A	N9-C1'-C2'	7.59	123.87	114.00
24	BA	2035	G	N9-C1'-C2'	7.59	123.86	114.00
24	BA	1189	A	N9-C1'-C2'	-7.54	103.70	112.00
30	BG	95	ARG	N-CA-C	7.53	131.32	111.00
24	BA	607	U	C5-C4-O4	-7.52	121.39	125.90
1	AA	1054	C	N1-C1'-C2'	-7.51	103.74	112.00
24	BA	1786	A	C6-N1-C2	-7.50	114.10	118.60
51	B4	36	CYS	CA-CB-SG	7.49	127.47	114.00
1	AA	457	C	N1-C1'-C2'	-7.43	103.83	112.00
24	BA	2587	A	N9-C1'-C2'	7.43	123.66	114.00
24	BA	1203	G	OP2-P-O3'	-7.36	89.00	105.20
46	BY	77	ASP	N-CA-C	7.36	130.87	111.00
27	BD	49	ILE	N-CA-C	-7.35	91.14	111.00
1	AA	974	A	C6-N1-C2	-7.35	114.19	118.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	BU	50	PRO	N-CA-C	7.35	131.20	112.10
24	BA	2510	C	N1-C1'-C2'	-7.33	103.94	112.00
24	BA	184	C	N1-C1'-C2'	7.29	123.47	114.00
24	BA	2422	A	N9-C1'-C2'	7.29	123.47	114.00
1	AA	563	A	N9-C1'-C2'	7.28	123.46	114.00
24	BA	1786	A	C4-N9-C1'	7.28	139.40	126.30
24	BA	1537	C	N1-C1'-C2'	-7.27	104.00	112.00
1	AA	790	A	N9-C1'-C2'	-7.26	104.01	112.00
27	BD	45	ASN	N-CA-C	-7.25	91.44	111.00
1	AA	397	A	C5-C6-N6	-7.22	117.92	123.70
24	BA	1778	U	C2-N3-C4	-7.20	122.68	127.00
3	AB	36	A	N9-C1'-C2'	-7.20	104.08	112.00
24	BA	265	A	N1-C6-N6	7.19	122.92	118.60
24	BA	2259	G	N9-C1'-C2'	-7.19	104.09	112.00
22	AW	36	LEU	CA-CB-CG	-7.18	98.78	115.30
52	B5	26	ASN	N-CA-C	7.16	130.33	111.00
32	BK	144	VAL	N-CA-C	-7.13	91.74	111.00
24	BA	2582	G	O4'-C1'-N9	-7.12	102.50	108.20
24	BA	1372	U	C5-C4-O4	-7.08	121.65	125.90
24	BA	1604	C	N1-C1'-C2'	7.06	123.18	114.00
24	BA	2491	U	C3'-C2'-C1'	-7.06	95.86	101.50
24	BA	2448	A	O5'-C5'-C4'	-7.05	98.31	111.70
1	AA	367	U	N1-C1'-C2'	7.04	123.16	114.00
24	BA	654	A	N9-C1'-C2'	-7.03	104.27	112.00
24	BA	1205	U	C5'-C4'-O4'	7.02	117.53	109.10
3	AB	36	A	O4'-C1'-N9	7.00	113.80	108.20
24	BA	1786	A	C8-N9-C1'	-6.99	115.12	127.70
1	AA	530	G	C5'-C4'-O4'	-6.99	100.72	109.10
24	BA	1792	G	N9-C1'-C2'	-6.98	104.32	112.00
24	BA	2459	A	C6-N1-C2	-6.98	114.41	118.60
24	BA	2602	A	N9-C1'-C2'	6.96	123.06	114.00
24	BA	1205	U	C1'-O4'-C4'	-6.95	104.34	109.90
24	BA	620	G	N9-C1'-C2'	6.95	123.03	114.00
27	BD	16	MET	N-CA-C	-6.94	92.25	111.00
34	BM	36	GLY	N-CA-C	-6.94	95.75	113.10
24	BA	1971	A	N9-C1'-C2'	-6.93	104.38	112.00
22	AW	24	LEU	CA-CB-CG	6.92	131.21	115.30
24	BA	282	A	N9-C1'-C2'	-6.92	104.39	112.00
24	BA	911	A	N9-C1'-C2'	6.92	123.00	114.00
24	BA	554	U	N1-C1'-C2'	6.91	122.99	114.00
24	BA	1699	G	N9-C1'-C2'	6.91	122.98	114.00
24	BA	1240	U	OP2-P-O3'	-6.91	90.00	105.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	527	C	N1-C1'-C2'	6.90	122.97	114.00
24	BA	1694	C	N1-C1'-C2'	6.90	122.97	114.00
42	BU	63	GLY	N-CA-C	-6.89	95.88	113.10
42	BU	94	LEU	N-CA-C	-6.88	92.41	111.00
1	AA	1402	C	N1-C1'-C2'	-6.88	104.43	112.00
1	AA	1393	U	N1-C1'-C2'	-6.87	104.44	112.00
24	BA	1359	A	N9-C1'-C2'	-6.87	104.44	112.00
24	BA	2346	A	O4'-C1'-N9	6.87	113.70	108.20
28	BE	6	GLY	N-CA-C	-6.87	95.93	113.10
24	BA	607	U	N3-C4-C5	6.87	118.72	114.60
24	BA	2596	U	N1-C1'-C2'	-6.86	104.45	112.00
1	AA	1498	U	N1-C1'-C2'	6.85	122.91	114.00
51	B4	13	LYS	N-CA-C	-6.84	92.54	111.00
24	BA	607	U	N1-C2-O2	6.82	127.57	122.80
24	BA	2501	C	OP2-P-O3'	-6.80	90.23	105.20
1	AA	1494	G	O5'-P-OP2	6.78	118.84	110.70
1	AA	197	A	P-O3'-C3'	-6.78	111.56	119.70
24	BA	534	U	O4'-C1'-N1	6.78	113.62	108.20
24	BA	387	U	N1-C1'-C2'	6.77	122.80	114.00
24	BA	865	C	N1-C1'-C2'	6.75	122.77	114.00
1	AA	530	G	C8-N9-C1'	6.74	135.76	127.00
1	AA	885	G	N9-C1'-C2'	-6.74	104.59	112.00
1	AA	1123	A	N9-C1'-C2'	6.73	122.75	114.00
24	BA	762	U	N1-C1'-C2'	6.71	122.73	114.00
24	BA	1775	U	C5-C4-O4	-6.70	121.88	125.90
24	BA	2447	G	N9-C1'-C2'	6.69	122.70	114.00
24	BA	2498	C	C5'-C4'-C3'	-6.68	105.31	116.00
24	BA	650	C	O4'-C1'-N1	6.67	113.54	108.20
1	AA	813	U	N1-C1'-C2'	6.66	122.66	114.00
1	AA	1279	A	N9-C1'-C2'	6.65	122.65	114.00
50	B3	32	TYR	N-CA-C	6.65	128.95	111.00
1	AA	531	U	N1-C1'-C2'	6.65	122.64	114.00
39	BR	63	THR	N-CA-C	-6.64	93.07	111.00
24	BA	1059	G	N9-C1'-C2'	-6.64	104.69	112.00
24	BA	615	G	N9-C1'-C2'	6.64	122.63	114.00
24	BA	1635	G	C5'-C4'-C3'	-6.63	105.39	116.00
1	AA	12	U	O4'-C1'-N1	6.63	113.50	108.20
1	AA	397	A	O4'-C1'-N9	-6.62	102.90	108.20
24	BA	1938	A	C4-N9-C1'	6.62	138.21	126.30
24	BA	1626	G	C5'-C4'-O4'	6.62	117.04	109.10
1	AA	1492	A	N9-C1'-C2'	6.61	122.59	114.00
1	AA	47	C	N1-C1'-C2'	6.61	122.59	114.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	2073	C	O4'-C1'-N1	-6.61	102.91	108.20
3	AB	19	G	OP2-P-O3'	6.61	119.73	105.20
24	BA	1444(A)	A	N9-C1'-C2'	6.61	122.59	114.00
46	BY	52	SER	N-CA-C	-6.60	93.18	111.00
54	B7	6	THR	N-CA-C	-6.60	93.19	111.00
1	AA	1502	A	N9-C1'-C2'	6.59	122.57	114.00
24	BA	1247	A	N9-C1'-C2'	6.59	122.57	114.00
1	AA	974	A	N1-C6-N6	6.59	122.55	118.60
36	BO	30	THR	N-CA-C	6.58	128.77	111.00
24	BA	1143	A	N9-C1'-C2'	6.58	122.55	114.00
1	AA	397	A	N9-C1'-C2'	6.57	122.54	114.00
24	BA	431	U	N1-C1'-C2'	-6.56	104.78	112.00
24	BA	1822	G	N9-C1'-C2'	-6.56	104.78	112.00
24	BA	703	U	O4'-C1'-N1	6.56	113.45	108.20
27	BD	250	TRP	N-CA-C	6.55	128.70	111.00
25	BB	118	G	N9-C1'-C2'	-6.54	104.80	112.00
1	AA	1494	G	O4'-C1'-N9	6.54	113.43	108.20
24	BA	1955	U	N1-C1'-C2'	6.54	122.50	114.00
24	BA	2336	A	N9-C1'-C2'	6.54	122.50	114.00
1	AA	644	G	N9-C1'-C2'	-6.54	104.81	112.00
24	BA	1786	A	N1-C6-N6	6.52	122.51	118.60
24	BA	1667	G	C5'-C4'-C3'	6.51	126.42	116.00
24	BA	2447	G	OP2-P-O3'	6.51	119.52	105.20
27	BD	215	LEU	CA-CB-CG	-6.50	100.35	115.30
1	AA	172	A	O3'-P-O5'	-6.50	91.66	104.00
2	A1	35	U	N1-C1'-C2'	-6.50	104.86	112.00
24	BA	2320	A	N9-C1'-C2'	6.48	122.43	114.00
24	BA	1604	C	O4'-C1'-N1	6.47	113.37	108.20
24	BA	725	G	N9-C1'-C2'	6.46	122.40	114.00
37	BP	82	ARG	N-CA-C	-6.45	93.59	111.00
1	AA	1489	G	N9-C1'-C2'	-6.44	104.92	112.00
24	BA	1815	A	N9-C1'-C2'	6.44	122.37	114.00
24	BA	270(G)	C	O4'-C1'-N1	6.43	113.35	108.20
1	AA	82	U	N3-C4-O4	-6.42	114.91	119.40
1	AA	1193	G	N9-C1'-C2'	-6.40	104.96	112.00
40	BS	60	THR	N-CA-C	-6.40	93.72	111.00
1	AA	1341	U	N1-C1'-C2'	-6.39	104.98	112.00
1	AA	172	A	OP2-P-O3'	-6.38	91.17	105.20
24	BA	2196	C	N1-C1'-C2'	6.38	122.29	114.00
24	BA	2726	U	N1-C1'-C2'	6.37	122.28	114.00
1	AA	37	U	N3-C4-O4	-6.37	114.94	119.40
24	BA	265	A	C5-C6-N6	-6.36	118.61	123.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	1367	A	N9-C1'-C2'	-6.36	105.00	112.00
1	AA	818	G	N9-C1'-C2'	6.36	122.27	114.00
1	AA	1100	C	N1-C1'-C2'	6.36	122.26	114.00
1	AA	1492	A	C5'-C4'-O4'	6.35	116.72	109.10
24	BA	1204	A	C4-N9-C1'	6.35	137.72	126.30
30	BG	42	GLY	N-CA-C	6.34	128.96	113.10
3	AC	1	G	OP1-P-OP2	-6.34	110.09	119.60
24	BA	2522	U	C2-N1-C1'	6.34	125.31	117.70
1	AA	397	A	N1-C6-N6	6.34	122.40	118.60
24	BA	2448	A	P-O3'-C3'	-6.32	112.12	119.70
52	B5	37	ARG	N-CA-C	6.32	128.05	111.00
1	AA	974	A	C4-N9-C1'	6.31	137.66	126.30
1	AA	1049	U	C2'-C3'-O3'	6.31	123.79	113.70
34	BM	51	PHE	N-CA-C	-6.30	93.98	111.00
42	BU	98	GLU	N-CA-C	6.29	127.98	111.00
24	BA	488	G	N9-C1'-C2'	-6.29	105.09	112.00
24	BA	607	U	C2-N1-C1'	-6.29	110.16	117.70
1	AA	760	G	N9-C1'-C2'	-6.28	105.09	112.00
24	BA	101	G	N9-C1'-C2'	6.28	122.16	114.00
24	BA	828	U	N1-C1'-C2'	6.28	122.16	114.00
24	BA	2665	A	C5-C6-N6	-6.28	118.68	123.70
6	AG	19	LEU	N-CA-C	-6.27	94.07	111.00
40	BS	43	GLN	N-CA-C	-6.27	94.08	111.00
24	BA	1941	C	O4'-C4'-C3'	-6.26	97.74	104.00
31	BH	111	HIS	N-CA-C	6.26	127.89	111.00
24	BA	1956	U	C2-N1-C1'	6.25	125.20	117.70
27	BD	94	LEU	N-CA-C	-6.25	94.13	111.00
37	BP	125	LEU	CA-CB-CG	-6.24	100.95	115.30
24	BA	265	A	C4-N9-C1'	6.23	137.52	126.30
34	BM	125	GLY	N-CA-C	-6.23	97.52	113.10
24	BA	1950	G	O4'-C1'-N9	6.23	113.18	108.20
24	BA	2460	U	C2-N1-C1'	6.22	125.17	117.70
36	BO	59	LEU	CA-CB-CG	6.21	129.59	115.30
1	AA	1298	C	N1-C1'-C2'	6.21	122.07	114.00
24	BA	1169	G	N9-C1'-C2'	-6.20	105.18	112.00
1	AA	372	C	N1-C1'-C2'	6.20	122.06	114.00
24	BA	67	U	N1-C2-O2	6.20	127.14	122.80
1	AA	528	C	N1-C1'-C2'	-6.18	105.20	112.00
24	BA	745	G	N9-C1'-C2'	6.18	122.04	114.00
3	AB	18	G	O3'-P-O5'	-6.18	92.26	104.00
24	BA	1559	G	O4'-C1'-N9	-6.18	103.26	108.20
24	BA	676	A	N9-C1'-C2'	6.17	122.02	114.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	BP	28	ALA	N-CA-C	-6.16	94.36	111.00
27	BD	272	ALA	N-CA-C	6.16	127.62	111.00
1	AA	530	G	N3-C4-N9	-6.15	122.31	126.00
1	AA	1054	C	O4'-C4'-C3'	-6.15	97.85	104.00
54	B7	35	GLN	N-CA-C	-6.15	94.40	111.00
24	BA	2198	A	N9-C1'-C2'	6.14	121.98	114.00
24	BA	2835	A	N9-C1'-C2'	6.13	121.97	114.00
1	AA	173	U	O3'-P-O5'	-6.12	92.36	104.00
24	BA	494	G	N9-C1'-C2'	-6.12	105.27	112.00
28	BE	141	ILE	N-CA-C	6.11	127.50	111.00
24	BA	1626	G	O4'-C1'-N9	6.10	113.08	108.20
1	AA	191(B)	G	N9-C1'-C2'	-6.09	105.30	112.00
24	BA	739	G	O4'-C1'-N9	6.09	113.08	108.20
24	BA	741	G	C5'-C4'-C3'	6.09	125.75	116.00
24	BA	2478	A	N9-C1'-C2'	-6.09	105.30	112.00
24	BA	1418	G	N9-C1'-C2'	-6.09	105.30	112.00
1	AA	88	C	C1'-O4'-C4'	-6.09	105.03	109.90
1	AA	974	A	C8-N9-C1'	-6.09	116.74	127.70
24	BA	1786	A	C4-C5-C6	6.09	120.04	117.00
28	BE	5	LEU	N-CA-C	6.08	127.43	111.00
24	BA	1022	G	N9-C1'-C2'	6.08	121.91	114.00
24	BA	1324	G	N9-C1'-C2'	6.08	121.91	114.00
24	BA	2447	G	P-O3'-C3'	6.08	127.00	119.70
24	BA	562	U	N1-C1'-C2'	6.07	121.89	114.00
7	AH	83	GLU	N-CA-C	-6.06	94.63	111.00
24	BA	1161	C	N1-C1'-C2'	-6.06	105.34	112.00
24	BA	2092	U	N1-C1'-C2'	6.05	121.87	114.00
1	AA	1481	U	O4'-C1'-N1	6.04	113.03	108.20
1	AA	961	U	C5-C4-O4	-6.04	122.28	125.90
24	BA	621	A	C5-C6-N1	-6.03	114.68	117.70
1	AA	319	G	N9-C1'-C2'	-6.03	105.37	112.00
24	BA	1938	A	C8-N9-C1'	-6.03	116.85	127.70
24	BA	1809	A	C1'-O4'-C4'	-6.02	105.08	109.90
1	AA	973	G	OP1-P-O3'	-6.02	91.96	105.20
46	BY	147	GLY	N-CA-C	-6.02	98.05	113.10
24	BA	787	U	C5'-C4'-O4'	6.01	116.32	109.10
24	BA	1936	A	N9-C1'-C2'	6.01	121.82	114.00
32	BK	32	PRO	N-CA-C	-6.01	96.47	112.10
1	AA	397	A	C5'-C4'-C3'	-6.00	106.40	116.00
24	BA	1941	C	O4'-C1'-N1	5.99	112.99	108.20
24	BA	1626	G	N9-C1'-C2'	5.99	121.78	114.00
24	BA	637	A	N9-C1'-C2'	5.98	121.78	114.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	1746	G	N9-C1'-C2'	-5.98	105.42	112.00
24	BA	265	A	C8-N9-C1'	-5.97	116.95	127.70
24	BA	1310	G	C5'-C4'-O4'	5.97	116.26	109.10
24	BA	746	A	N9-C1'-C2'	-5.97	105.44	112.00
24	BA	2597	G	N9-C1'-C2'	5.97	121.76	114.00
15	AP	107	ALA	N-CA-C	-5.97	94.89	111.00
24	BA	2471	C	N1-C1'-C2'	-5.96	105.44	112.00
24	BA	889	C	N1-C1'-C2'	5.96	121.75	114.00
28	BE	49	LEU	CA-CB-CG	5.96	129.01	115.30
24	BA	607	U	C6-N1-C1'	5.94	129.51	121.20
1	AA	301	G	N9-C1'-C2'	-5.93	105.48	112.00
3	AD	32	U	N1-C1'-C2'	-5.93	105.48	112.00
24	BA	2431	U	O4'-C1'-N1	5.93	112.94	108.20
24	BA	1602	U	N1-C1'-C2'	-5.92	105.48	112.00
24	BA	1533	C	N1-C1'-C2'	-5.92	105.49	112.00
4	AE	98	LEU	CA-CB-CG	5.92	128.91	115.30
24	BA	730	C	C5'-C4'-O4'	5.91	116.20	109.10
24	BA	2821	A	N9-C1'-C2'	-5.91	105.50	112.00
24	BA	1625	C	C2-N1-C1'	5.91	125.30	118.80
1	AA	402	G	N9-C1'-C2'	-5.91	105.50	112.00
24	BA	1791	A	N9-C1'-C2'	5.90	121.67	114.00
1	AA	853	G	O4'-C1'-N9	5.90	112.92	108.20
4	AE	118	LEU	CA-CB-CG	5.89	128.86	115.30
24	BA	1947	C	C5'-C4'-C3'	-5.89	106.57	116.00
1	AA	484	G	C2'-C3'-O3'	5.89	123.12	113.70
24	BA	1128	A	C5'-C4'-C3'	5.89	125.42	116.00
24	BA	2681	C	N1-C1'-C2'	5.89	121.65	114.00
28	BE	146	THR	N-CA-C	-5.88	95.12	111.00
1	AA	1492	A	C3'-C2'-O2'	-5.88	96.25	113.30
24	BA	1786	A	C6-C5-N7	-5.88	128.19	132.30
24	BA	1379	A	N9-C1'-C2'	5.87	121.63	114.00
28	BE	195	LEU	N-CA-C	5.87	126.85	111.00
1	AA	1493	A	C4'-C3'-C2'	5.86	108.46	102.60
24	BA	791	C	O4'-C1'-N1	5.85	112.88	108.20
5	AF	188	LEU	CA-CB-CG	5.85	128.76	115.30
24	BA	49	A	N9-C1'-C2'	-5.84	105.58	112.00
12	AM	8	LEU	CA-CB-CG	5.84	128.73	115.30
24	BA	2613	U	N1-C1'-C2'	5.83	121.58	114.00
1	AA	1294	G	N9-C1'-C2'	-5.83	105.59	112.00
25	BB	50	G	N9-C1'-C2'	-5.83	105.59	112.00
24	BA	2781	A	N9-C1'-C2'	-5.82	105.60	112.00
29	BF	60	SER	N-CA-C	-5.82	95.29	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	80	G	N9-C1'-C2'	5.81	121.56	114.00
24	BA	2614	A	N9-C1'-C2'	5.81	121.56	114.00
24	BA	2255	G	C5'-C4'-O4'	5.81	116.07	109.10
1	AA	397	A	C6-N1-C2	-5.81	115.12	118.60
10	AK	134	ILE	CB-CA-C	-5.81	99.99	111.60
28	BE	25	VAL	CB-CA-C	-5.81	100.37	111.40
24	BA	196	A	O4'-C1'-N9	5.80	112.84	108.20
39	BR	65	VAL	N-CA-C	-5.80	95.34	111.00
34	BM	77	GLY	N-CA-C	-5.80	98.60	113.10
24	BA	1313	U	C2-N1-C1'	5.80	124.66	117.70
28	BE	158	GLY	N-CA-C	5.79	127.59	113.10
1	AA	590	C	N1-C1'-C2'	-5.79	105.63	112.00
1	AA	872	A	O4'-C1'-N9	5.78	112.83	108.20
1	AA	1504	G	C2'-C3'-O3'	5.78	122.95	113.70
35	BN	4	PRO	N-CA-C	-5.78	97.07	112.10
46	BY	144	LEU	CA-CB-CG	5.78	128.60	115.30
24	BA	650	C	N1-C1'-C2'	5.78	121.51	114.00
33	BL	59	ILE	N-CA-C	-5.78	95.40	111.00
1	AA	1029	G	N9-C1'-C2'	-5.77	105.66	112.00
24	BA	427	U	C5-C4-O4	-5.76	122.44	125.90
32	BK	8	PRO	N-CA-C	5.76	127.07	112.10
24	BA	2746	U	N1-C1'-C2'	-5.76	105.67	112.00
24	BA	1440	G	N9-C1'-C2'	-5.75	105.67	112.00
24	BA	687	C	N1-C2-O2	5.75	122.35	118.90
49	B2	27	GLY	N-CA-C	-5.74	98.75	113.10
24	BA	1530	G	C5-C6-O6	5.74	132.04	128.60
24	BA	446	G	N9-C1'-C2'	5.73	121.45	114.00
1	AA	115	G	N9-C1'-C2'	5.73	121.45	114.00
54	B7	49	VAL	CB-CA-C	-5.73	100.52	111.40
1	AA	372	C	C2'-C3'-O3'	5.72	122.86	113.70
46	BY	39	VAL	N-CA-C	5.72	126.45	111.00
24	BA	2668	G	O4'-C1'-N9	5.72	112.78	108.20
28	BE	195	LEU	CA-CB-CG	-5.72	102.15	115.30
1	AA	1336	C	O4'-C1'-N1	5.72	112.77	108.20
24	BA	1204	A	C8-N9-C1'	-5.71	117.42	127.70
24	BA	1980	G	N9-C1'-C2'	5.71	121.42	114.00
24	BA	2491	U	C4'-C3'-O3'	5.70	124.41	113.00
1	AA	1139	G	N9-C1'-C2'	5.70	121.41	114.00
1	AA	146	G	N9-C1'-C2'	-5.70	105.73	112.00
10	AK	100	ILE	N-CA-C	-5.70	95.61	111.00
24	BA	662	G	N9-C1'-C2'	-5.69	105.74	112.00
24	BA	1489	U	C5'-C4'-O4'	5.69	115.93	109.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	BP	111	GLU	N-CA-C	5.69	126.36	111.00
7	AH	31	LEU	CA-CB-CG	5.68	128.36	115.30
24	BA	1420	U	N1-C1'-C2'	5.68	121.38	114.00
24	BA	946	G	N9-C1'-C2'	-5.67	105.76	112.00
24	BA	2761	G	C5'-C4'-C3'	5.67	125.07	116.00
40	BS	57	PHE	N-CA-C	5.66	126.29	111.00
24	BA	2256	G	O4'-C1'-N9	-5.66	103.68	108.20
24	BA	2517	C	N1-C1'-C2'	5.66	121.35	114.00
24	BA	2267	A	O4'-C1'-N9	5.65	112.72	108.20
24	BA	687	C	N1-C1'-C2'	5.65	121.35	114.00
37	BP	71	ASP	N-CA-C	5.65	126.26	111.00
1	AA	833	U	C2-N3-C4	-5.64	123.62	127.00
24	BA	1786	A	N3-C4-N9	5.63	131.91	127.40
24	BA	740	U	O5'-P-OP1	-5.62	100.64	105.70
1	AA	638	G	N9-C1'-C2'	-5.62	105.82	112.00
1	AA	1004	A	C2'-C3'-O3'	5.62	122.69	113.70
24	BA	1359	A	C5-C6-N6	-5.62	119.21	123.70
24	BA	1625	C	O4'-C1'-N1	-5.62	103.71	108.20
24	BA	2665	A	N1-C6-N6	5.62	121.97	118.60
24	BA	1786	A	C5-C6-N1	5.60	120.50	117.70
1	AA	209	U	N1-C1'-C2'	5.60	121.28	114.00
34	BM	49	GLY	N-CA-C	-5.60	99.10	113.10
1	AA	13	U	C5'-C4'-O4'	5.60	115.82	109.10
24	BA	2458	G	N9-C1'-C2'	5.59	121.27	114.00
1	AA	1185	G	N9-C1'-C2'	-5.59	105.85	112.00
24	BA	2491	U	C2-N3-C4	-5.59	123.65	127.00
31	BH	165	ALA	N-CA-C	-5.59	95.91	111.00
39	BR	62	LYS	N-CA-C	5.59	126.09	111.00
24	BA	606	U	C5-C4-O4	-5.58	122.55	125.90
24	BA	2861	G	O4'-C1'-N9	5.58	112.67	108.20
24	BA	1183	G	N9-C1'-C2'	5.58	121.26	114.00
9	AJ	132	GLY	N-CA-C	5.58	127.05	113.10
28	BE	52	LEU	CA-CB-CG	5.57	128.12	115.30
24	BA	2472	G	C5'-C4'-C3'	-5.57	107.09	116.00
24	BA	2414	G	N9-C1'-C2'	-5.56	105.88	112.00
42	BU	56	SER	N-CA-C	5.56	126.02	111.00
24	BA	1424	G	N9-C1'-C2'	-5.56	105.88	112.00
24	BA	978	G	C8-N9-C1'	5.56	134.23	127.00
24	BA	1667	G	C1'-O4'-C4'	-5.56	105.45	109.90
29	BF	13	SER	N-CA-C	-5.56	95.99	111.00
24	BA	1191	G	N9-C1'-C2'	-5.55	105.89	112.00
24	BA	602	G	N9-C1'-C2'	5.55	121.22	114.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	587	C	N1-C1'-C2'	5.55	121.21	114.00
50	B3	5	ILE	CB-CA-C	-5.54	100.51	111.60
54	B7	17	THR	N-CA-C	-5.54	96.03	111.00
1	AA	767	A	N9-C1'-C2'	-5.54	105.90	112.00
1	AA	1028(A)	C	N1-C1'-C2'	-5.54	105.91	112.00
24	BA	444	C	N1-C1'-C2'	-5.54	105.91	112.00
24	BA	834	C	N1-C1'-C2'	-5.54	105.90	112.00
24	BA	1785	A	N9-C1'-C2'	5.54	121.20	114.00
24	BA	1253	A	N9-C1'-C2'	5.54	121.20	114.00
24	BA	805	G	N9-C1'-C2'	-5.54	105.91	112.00
52	B5	22	ALA	N-CA-C	5.53	125.94	111.00
24	BA	1800	C	O4'-C4'-C3'	-5.53	98.47	104.00
1	AA	853	G	C5-C6-O6	5.53	131.92	128.60
42	BU	49	THR	C-N-CD	-5.53	108.44	120.60
1	AA	723	U	N1-C1'-C2'	5.52	121.18	114.00
24	BA	791	C	N1-C1'-C2'	5.52	121.17	114.00
1	AA	242	C	N1-C1'-C2'	-5.52	105.93	112.00
24	BA	2111	C	N1-C1'-C2'	5.52	121.17	114.00
40	BS	72	VAL	N-CA-C	-5.52	96.10	111.00
24	BA	1559	G	N9-C1'-C2'	-5.51	105.94	112.00
35	BN	6	THR	N-CA-C	5.51	125.88	111.00
1	AA	156	G	N9-C1'-C2'	-5.51	105.94	112.00
24	BA	2668	G	O4'-C4'-C3'	-5.51	98.49	104.00
29	BF	47	GLY	N-CA-C	5.51	126.87	113.10
24	BA	2491	U	C2-N1-C1'	5.51	124.31	117.70
50	B3	52	THR	N-CA-C	5.51	125.87	111.00
20	AU	52	PRO	N-CA-C	5.50	126.40	112.10
1	AA	833	U	N1-C2-O2	-5.50	118.95	122.80
3	AC	76	A	C4'-C3'-O3'	5.50	124.00	113.00
1	AA	1124	G	N9-C1'-C2'	5.50	121.15	114.00
27	BD	44	ASN	N-CA-C	-5.49	96.18	111.00
6	AG	9	CYS	CA-CB-SG	5.48	123.87	114.00
14	AO	119	LYS	N-CA-C	-5.48	96.20	111.00
24	BA	763	G	O4'-C4'-C3'	-5.48	98.52	104.00
4	AE	61	LEU	CA-CB-CG	5.48	127.90	115.30
24	BA	631	A	N9-C1'-C2'	-5.48	105.97	112.00
24	BA	141	A	N9-C1'-C2'	-5.47	105.98	112.00
1	AA	243	A	N9-C1'-C2'	5.47	121.11	114.00
24	BA	2158	A	N9-C1'-C2'	5.46	121.10	114.00
3	AD	55	U	N1-C1'-C2'	-5.45	106.00	112.00
1	AA	1084	G	N9-C1'-C2'	5.45	121.08	114.00
24	BA	1956	U	C5-C4-O4	-5.44	122.64	125.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
39	BR	23	ARG	N-CA-C	5.43	125.66	111.00
10	AK	80	ILE	N-CA-C	-5.43	96.35	111.00
24	BA	2040	C	N1-C1'-C2'	-5.43	106.03	112.00
24	BA	2285	C	N1-C1'-C2'	-5.42	106.03	112.00
24	BA	1970	A	C5'-C4'-O4'	5.42	115.61	109.10
45	BX	52	SER	N-CA-C	-5.42	96.36	111.00
38	BQ	38	VAL	C-N-CD	5.42	139.78	128.40
31	BH	111	HIS	C-N-CD	5.41	139.77	128.40
50	B3	19	GLY	N-CA-C	-5.41	99.57	113.10
1	AA	106	C	N1-C1'-C2'	-5.41	106.05	112.00
36	BO	88	LEU	N-CA-C	5.41	125.61	111.00
24	BA	1142	U	O4'-C1'-N1	5.41	112.53	108.20
24	BA	2665	A	C4-N9-C1'	5.41	136.03	126.30
24	BA	2867	G	N9-C1'-C2'	5.41	121.03	114.00
1	AA	682	G	N9-C1'-C2'	-5.40	106.06	112.00
24	BA	1544	C	N1-C1'-C2'	5.40	121.02	114.00
24	BA	1416	G	N9-C1'-C2'	5.39	121.01	114.00
50	B3	13	ARG	N-CA-C	5.39	125.56	111.00
1	AA	753	A	N9-C1'-C2'	5.39	121.00	114.00
24	BA	1600	C	N1-C1'-C2'	-5.39	106.08	112.00
24	BA	2885	C	N1-C1'-C2'	-5.38	106.08	112.00
1	AA	88	C	C2-N1-C1'	-5.38	112.88	118.80
24	BA	192	C	O4'-C1'-N1	5.37	112.49	108.20
24	BA	1085	A	N9-C1'-C2'	5.37	120.97	114.00
32	BK	134	PRO	N-CA-C	5.37	126.05	112.10
24	BA	2705	A	N9-C1'-C2'	-5.36	106.11	112.00
9	AJ	76	ARG	N-CA-C	-5.35	96.55	111.00
24	BA	987	G	N9-C1'-C2'	-5.35	106.11	112.00
24	BA	1186	G	O4'-C1'-N9	-5.35	103.92	108.20
24	BA	2500	U	P-O3'-C3'	5.35	126.12	119.70
40	BS	45	PHE	N-CA-C	-5.35	96.57	111.00
24	BA	2399	G	N9-C1'-C2'	-5.34	106.12	112.00
42	BU	66	ARG	N-CA-C	5.34	125.42	111.00
35	BN	68	GLU	N-CA-C	-5.34	96.59	111.00
1	AA	13	U	O4'-C1'-N1	-5.34	103.93	108.20
28	BE	43	GLY	N-CA-C	-5.34	99.76	113.10
24	BA	532	A	N9-C1'-C2'	5.33	120.93	114.00
1	AA	1011	G	N9-C1'-C2'	-5.33	106.14	112.00
24	BA	1127	A	N9-C1'-C2'	-5.32	106.15	112.00
24	BA	1534	G	N9-C1'-C2'	-5.32	106.15	112.00
24	BA	1359	A	N1-C6-N6	5.31	121.79	118.60
24	BA	366	C	N1-C1'-C2'	-5.31	106.16	112.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	15	G	N9-C1'-C2'	-5.31	106.16	112.00
24	BA	400	G	N9-C1'-C2'	-5.31	106.16	112.00
24	BA	688	U	C2-N3-C4	-5.31	123.81	127.00
24	BA	1020	A	N9-C1'-C2'	-5.31	106.16	112.00
49	B2	38	GLU	N-CA-C	-5.31	96.67	111.00
1	AA	1165	C	N1-C1'-C2'	-5.30	106.17	112.00
19	AT	61	GLU	N-CA-C	-5.30	96.68	111.00
27	BD	70	TRP	N-CA-C	-5.30	96.68	111.00
24	BA	1968	G	N9-C1'-C2'	-5.30	106.17	112.00
1	AA	88	C	N1-C1'-C2'	5.30	120.89	114.00
5	AF	52	LEU	CA-CB-CG	5.30	127.49	115.30
24	BA	2777	G	O4'-C1'-N9	-5.30	103.96	108.20
24	BA	2713	A	N9-C1'-C2'	5.29	120.88	114.00
1	AA	529	G	N9-C1'-C2'	-5.29	106.18	112.00
24	BA	2461	C	N1-C2-O2	5.29	122.07	118.90
1	AA	226	G	C1'-O4'-C4'	-5.29	105.67	109.90
24	BA	774	A	N9-C1'-C2'	5.28	120.87	114.00
24	BA	1230	C	N1-C1'-C2'	-5.28	106.19	112.00
24	BA	2094	G	O4'-C1'-N9	5.28	112.42	108.20
24	BA	2448	A	OP1-P-O3'	5.28	116.81	105.20
24	BA	1762	A	N9-C1'-C2'	-5.27	106.20	112.00
24	BA	698	C	N1-C1'-C2'	5.27	120.85	114.00
24	BA	2249	U	N1-C1'-C2'	5.27	120.85	114.00
24	BA	2787	C	O4'-C1'-N1	5.27	112.42	108.20
1	AA	37	U	N1-C1'-C2'	-5.27	106.21	112.00
35	BN	120	GLU	N-CA-C	5.27	125.22	111.00
24	BA	351	G	N9-C1'-C2'	5.26	120.84	114.00
55	B8	14	CYS	CA-CB-SG	-5.26	104.53	114.00
24	BA	463	G	N9-C1'-C2'	-5.26	106.21	112.00
24	BA	2464	C	N1-C1'-C2'	-5.26	106.22	112.00
34	BM	116	LEU	CA-CB-CG	-5.26	103.21	115.30
24	BA	2358	G	N9-C1'-C2'	-5.25	106.22	112.00
18	AS	16	HIS	N-CA-C	-5.25	96.83	111.00
1	AA	1271	G	N9-C1'-C2'	-5.25	106.23	112.00
24	BA	1005	C	N1-C1'-C2'	5.25	120.82	114.00
1	AA	575	G	N9-C1'-C2'	5.25	120.82	114.00
37	BP	125	LEU	C-N-CA	-5.25	99.97	122.00
34	BM	80	GLY	N-CA-C	-5.24	100.00	113.10
35	BN	102	VAL	N-CA-C	5.24	125.14	111.00
24	BA	1694	C	O4'-C1'-N1	5.24	112.39	108.20
24	BA	2491	U	C6-N1-C2	-5.24	117.86	121.00
38	BQ	69	ASP	N-CA-C	5.24	125.14	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	1964	G	N9-C1'-C2'	5.23	120.80	114.00
19	AT	104	LYS	N-CA-C	5.22	125.10	111.00
24	BA	1510	A	N9-C1'-C2'	5.22	120.78	114.00
25	BB	90	C	C5'-C4'-O4'	5.22	115.36	109.10
1	AA	815	A	C1'-O4'-C4'	-5.21	105.73	109.90
24	BA	1993	U	C2-N1-C1'	5.21	123.96	117.70
50	B3	43	TYR	CA-CB-CG	5.21	123.31	113.40
24	BA	2724	C	O4'-C1'-N1	5.21	112.37	108.20
35	BN	61	VAL	N-CA-C	5.21	125.06	111.00
1	AA	5	U	OP1-P-OP2	-5.20	111.80	119.60
24	BA	2493	U	N1-C1'-C2'	-5.20	106.28	112.00
45	BX	46	LYS	N-CA-C	5.20	125.03	111.00
24	BA	2243	U	N1-C1'-C2'	5.20	120.75	114.00
24	BA	2657	A	N9-C1'-C2'	-5.20	106.28	112.00
51	B4	41	PRO	N-CA-C	-5.19	98.60	112.10
14	AO	59	ARG	N-CA-C	-5.19	96.99	111.00
24	BA	1910	G	N9-C1'-C2'	-5.19	106.29	112.00
24	BA	164	U	N1-C1'-C2'	5.19	120.74	114.00
24	BA	2195	C	N1-C1'-C2'	5.18	120.74	114.00
54	B7	51	ALA	N-CA-C	-5.18	97.00	111.00
24	BA	1635	G	C2'-C3'-O3'	5.18	121.99	113.70
1	AA	1310	G	N9-C1'-C2'	-5.18	106.30	112.00
27	BD	260	ARG	N-CA-C	-5.18	97.01	111.00
24	BA	2027	G	C5'-C4'-C3'	5.18	124.29	116.00
42	BU	12	TYR	N-CA-C	5.18	124.99	111.00
24	BA	1956	U	C6-N1-C1'	-5.17	113.96	121.20
31	BH	130	ARG	N-CA-C	-5.17	97.04	111.00
40	BS	63	VAL	N-CA-C	-5.17	97.04	111.00
50	B3	31	ILE	N-CA-C	5.17	124.96	111.00
1	AA	173	U	OP1-P-O3'	5.16	116.55	105.20
24	BA	1012	U	O4'-C4'-C3'	-5.15	98.85	104.00
40	BS	49	VAL	N-CA-C	-5.15	97.09	111.00
24	BA	2431	U	O4'-C4'-C3'	-5.15	98.85	104.00
24	BA	212	G	N9-C1'-C2'	-5.15	106.34	112.00
30	BG	48	GLU	N-CA-C	-5.15	97.10	111.00
46	BY	179	ASP	N-CA-C	5.14	124.89	111.00
43	BV	76	VAL	N-CA-C	5.14	124.88	111.00
47	BZ	26	TYR	N-CA-C	5.14	124.88	111.00
37	BP	34	LEU	CA-CB-CG	-5.13	103.49	115.30
1	AA	307	C	O4'-C1'-N1	-5.13	104.09	108.20
24	BA	283	A	O4'-C1'-N9	-5.13	104.09	108.20
50	B3	30	GLU	N-CA-C	-5.13	97.15	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	930	U	C5'-C4'-O4'	-5.13	102.95	109.10
24	BA	1477	A	N9-C1'-C2'	5.13	120.67	114.00
35	BN	22	ILE	N-CA-C	-5.13	97.16	111.00
28	BE	65	GLY	N-CA-C	-5.12	100.29	113.10
28	BE	147	PRO	N-CA-C	-5.12	98.78	112.10
1	AA	1492	A	C4-N9-C1'	5.12	135.52	126.30
24	BA	775	G	C4-N9-C1'	5.12	133.16	126.50
1	AA	586	C	N1-C1'-C2'	-5.12	106.37	112.00
24	BA	2510	C	C5'-C4'-O4'	5.12	115.24	109.10
30	BG	68	PRO	N-CA-C	5.11	125.39	112.10
35	BN	56	ASP	N-CA-CB	-5.11	101.40	110.60
9	AJ	8	GLU	N-CA-C	5.11	124.80	111.00
4	AE	187	LEU	N-CA-C	-5.11	97.20	111.00
24	BA	860	U	C5-C4-O4	-5.11	122.84	125.90
1	AA	1148	U	N1-C1'-C2'	5.11	120.64	114.00
25	BB	56	G	C2'-C3'-O3'	5.11	121.87	113.70
24	BA	2302	G	N9-C1'-C2'	-5.10	106.39	112.00
24	BA	1706	U	N1-C1'-C2'	5.10	120.63	114.00
24	BA	1746	G	O4'-C4'-C3'	-5.10	98.90	104.00
24	BA	1956	U	C5'-C4'-C3'	-5.10	107.84	116.00
24	BA	2894	G	N9-C1'-C2'	5.10	120.63	114.00
34	BM	104	LYS	N-CA-C	-5.10	97.24	111.00
24	BA	573	G	N9-C1'-C2'	5.09	120.62	114.00
1	AA	1210	C	O4'-C1'-N1	5.09	112.27	108.20
24	BA	643	A	N9-C1'-C2'	5.09	120.62	114.00
42	BU	40	LEU	N-CA-C	-5.09	97.26	111.00
1	AA	423	G	N9-C1'-C2'	5.09	120.61	114.00
24	BA	1240	U	N3-C4-O4	-5.09	115.84	119.40
24	BA	150	C	N1-C1'-C2'	5.08	120.61	114.00
24	BA	270(E)	G	O4'-C1'-N9	5.08	112.27	108.20
1	AA	741	G	N9-C1'-C2'	-5.08	106.41	112.00
1	AA	1493	A	O4'-C1'-N9	5.08	112.26	108.20
24	BA	66	C	N1-C1'-C2'	-5.08	106.42	112.00
24	BA	2425	A	O4'-C1'-N9	5.08	112.26	108.20
25	BB	-1	A	OP1-P-OP2	-5.08	111.99	119.60
1	AA	491	G	N9-C1'-C2'	-5.07	106.42	112.00
24	BA	265	A	C4-C5-C6	5.07	119.53	117.00
24	BA	1559	G	C3'-C2'-C1'	-5.07	97.44	101.50
24	BA	2061	G	N9-C1'-C2'	5.07	120.59	114.00
24	BA	1266	G	C5'-C4'-C3'	5.07	124.11	116.00
24	BA	728	G	N9-C1'-C2'	5.07	120.58	114.00
24	BA	2448	A	C5'-C4'-C3'	-5.07	107.89	116.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	2665	A	C8-N9-C1'	-5.07	118.58	127.70
7	AH	97	GLY	N-CA-C	-5.06	100.44	113.10
37	BP	123	HIS	N-CA-C	-5.06	97.33	111.00
6	AG	31	CYS	CA-CB-SG	5.06	123.11	114.00
24	BA	647	G	N9-C1'-C2'	5.06	120.58	114.00
24	BA	1516	U	N3-C4-O4	-5.06	115.86	119.40
46	BY	61	LEU	C-N-CD	-5.06	109.48	120.60
14	AO	27	LEU	CA-CB-CG	5.05	126.92	115.30
16	AQ	24	CYS	CA-CB-SG	5.05	123.10	114.00
1	AA	1230	C	N1-C1'-C2'	-5.05	106.45	112.00
36	BO	42	SER	N-CA-C	5.04	124.62	111.00
24	BA	1429	G	N9-C1'-C2'	5.04	120.55	114.00
1	AA	906	G	N9-C1'-C2'	-5.04	106.46	112.00
24	BA	2135	A	O4'-C1'-N9	-5.04	104.17	108.20
24	BA	95	G	N9-C1'-C2'	-5.04	106.46	112.00
24	BA	2447	G	O5'-P-OP1	-5.03	101.17	105.70
1	AA	13	U	C2-N1-C1'	5.03	123.73	117.70
1	AA	226	G	N9-C1'-C2'	-5.03	106.47	112.00
5	AF	197	GLY	N-CA-C	5.03	125.67	113.10
1	AA	1346	A	C5'-C4'-O4'	5.03	115.13	109.10
24	BA	1667	G	C4'-C3'-C2'	-5.03	97.58	102.60
24	BA	1779	U	C6-N1-C2	-5.02	117.99	121.00
24	BA	125	G	N9-C1'-C2'	5.02	120.53	114.00
1	AA	166	G	N9-C1'-C2'	-5.02	106.48	112.00
24	BA	869	G	C5'-C4'-C3'	5.02	124.03	116.00
24	BA	1778	U	C2'-C3'-O3'	5.02	121.72	113.70
1	AA	13	U	N1-C1'-C2'	5.01	120.52	114.00
25	BB	74	U	N1-C1'-C2'	-5.01	106.49	112.00
24	BA	1199	U	N1-C1'-C2'	5.01	120.51	114.00
24	BA	1541	U	O4'-C1'-N1	5.01	112.21	108.20
2	A1	3	U	OP1-P-OP2	-5.01	112.09	119.60

There are no chirality outliers.

All (694) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	A1	31	U	Sidechain
2	A1	38	U	Sidechain
2	A1	41	U	Sidechain
1	AA	1012	U	Sidechain
1	AA	1027	C	Sidechain
1	AA	1028(A)	C	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	1037	C	Sidechain
1	AA	1038	C	Sidechain
1	AA	1039	C	Sidechain
1	AA	1040	U	Sidechain
1	AA	1048	G	Sidechain
1	AA	1052	U	Sidechain
1	AA	1054	C	Sidechain
1	AA	1056	U	Sidechain
1	AA	1065	U	Sidechain
1	AA	1067	A	Sidechain
1	AA	1073	U	Sidechain
1	AA	1078	U	Sidechain
1	AA	1083	U	Sidechain
1	AA	1097	C	Sidechain
1	AA	1100	C	Sidechain
1	AA	1121	U	Sidechain
1	AA	1122	U	Sidechain
1	AA	1124	G	Sidechain
1	AA	1128	C	Sidechain
1	AA	1133	G	Sidechain
1	AA	1143	G	Sidechain
1	AA	115	G	Sidechain
1	AA	1150	U	Sidechain
1	AA	1165	C	Sidechain
1	AA	1195	C	Sidechain
1	AA	1199	U	Sidechain
1	AA	12	U	Sidechain
1	AA	1226	C	Sidechain
1	AA	1235	U	Sidechain
1	AA	124	G	Sidechain
1	AA	1246	C	Sidechain
1	AA	125	U	Sidechain
1	AA	1263	C	Sidechain
1	AA	1266	G	Sidechain
1	AA	1277	C	Sidechain
1	AA	1285	A	Sidechain
1	AA	129	U	Sidechain
1	AA	1298	C	Sidechain
1	AA	1302	U	Sidechain
1	AA	131	C	Sidechain
1	AA	1314	C	Sidechain
1	AA	132	C	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	1327	C	Sidechain
1	AA	1328	C	Sidechain
1	AA	1330	U	Sidechain
1	AA	134	A	Sidechain
1	AA	1347	G	Sidechain
1	AA	135	C	Sidechain
1	AA	1352	C	Sidechain
1	AA	1362	C	Sidechain
1	AA	1370	G	Sidechain
1	AA	1377	A	Sidechain
1	AA	138	G	Sidechain
1	AA	1402	C	Sidechain
1	AA	1404	C	Sidechain
1	AA	1405	G	Sidechain
1	AA	1422	G	Sidechain
1	AA	1427	U	Sidechain
1	AA	1442	G	Sidechain
1	AA	145	G	Sidechain
1	AA	146	G	Sidechain
1	AA	1472	U	Sidechain
1	AA	1477	C	Sidechain
1	AA	1481	U	Sidechain
1	AA	1489	G	Sidechain
1	AA	1495	U	Sidechain
1	AA	1500	A	Sidechain
1	AA	1541	U	Sidechain
1	AA	156	G	Sidechain
1	AA	158	G	Sidechain
1	AA	159	G	Sidechain
1	AA	17	U	Sidechain
1	AA	191(C)	G	Sidechain
1	AA	191(D)	U	Sidechain
1	AA	219	C	Sidechain
1	AA	225	C	Sidechain
1	AA	244	U	Sidechain
1	AA	253	U	Sidechain
1	AA	267	C	Sidechain
1	AA	274	A	Sidechain
1	AA	281	G	Sidechain
1	AA	285	G	Sidechain
1	AA	287	U	Sidechain
1	AA	295	C	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	31	G	Sidechain
1	AA	332	G	Sidechain
1	AA	335	C	Sidechain
1	AA	348	G	Sidechain
1	AA	352	C	Sidechain
1	AA	367	U	Sidechain
1	AA	37	U	Sidechain
1	AA	375	U	Sidechain
1	AA	385	C	Sidechain
1	AA	395	C	Sidechain
1	AA	397	A	Sidechain
1	AA	398	C	Sidechain
1	AA	403	C	Sidechain
1	AA	412	A	Sidechain
1	AA	418	C	Sidechain
1	AA	430	A	Sidechain
1	AA	432	A	Sidechain
1	AA	45	U	Sidechain
1	AA	451	A	Sidechain
1	AA	47	C	Sidechain
1	AA	484	G	Sidechain
1	AA	501	C	Sidechain
1	AA	504	C	Sidechain
1	AA	518	C	Sidechain
1	AA	529	G	Sidechain
1	AA	531	U	Sidechain
1	AA	532	A	Sidechain
1	AA	54	C	Sidechain
1	AA	56	U	Sidechain
1	AA	560	U	Sidechain
1	AA	563	A	Sidechain
1	AA	575	G	Sidechain
1	AA	576	G	Sidechain
1	AA	579	G	Sidechain
1	AA	590	C	Sidechain
1	AA	591	U	Sidechain
1	AA	596	C	Sidechain
1	AA	610	G	Sidechain
1	AA	616	G	Sidechain
1	AA	63	C	Sidechain
1	AA	634	C	Sidechain
1	AA	644	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	66	G	Sidechain
1	AA	661	G	Sidechain
1	AA	666	G	Sidechain
1	AA	672	U	Sidechain
1	AA	689	C	Sidechain
1	AA	690	G	Sidechain
1	AA	717	C	Sidechain
1	AA	727	G	Sidechain
1	AA	729	A	Sidechain
1	AA	734	G	Sidechain
1	AA	739	C	Sidechain
1	AA	741	G	Sidechain
1	AA	75	C	Sidechain
1	AA	760	G	Sidechain
1	AA	763	G	Sidechain
1	AA	770	C	Sidechain
1	AA	779	C	Sidechain
1	AA	792	A	Sidechain
1	AA	808	C	Sidechain
1	AA	813	U	Sidechain
1	AA	817	C	Sidechain
1	AA	82	U	Sidechain
1	AA	834	C	Sidechain
1	AA	853	G	Sidechain
1	AA	862	C	Sidechain
1	AA	863	U	Sidechain
1	AA	875	C	Sidechain
1	AA	88	C	Sidechain
1	AA	883	C	Sidechain
1	AA	887	G	Sidechain
1	AA	895	G	Sidechain
1	AA	898	G	Sidechain
1	AA	901	A	Sidechain
1	AA	902	G	Sidechain
1	AA	904	C	Sidechain
1	AA	905	U	Sidechain
1	AA	911	U	Sidechain
1	AA	912	C	Sidechain
1	AA	923	A	Sidechain
1	AA	947	G	Sidechain
1	AA	955	U	Sidechain
1	AA	961	U	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AA	974	A	Sidechain
1	AA	983	A	Sidechain
1	AA	989	C	Sidechain
1	AA	998(A)	C	Sidechain
3	AB	11	C	Sidechain
3	AB	12	U	Sidechain
3	AB	37	A	Sidechain
3	AB	53	G	Sidechain
3	AB	60	U	Sidechain
3	AB	61	C	Sidechain
3	AC	14	A	Sidechain
3	AC	18	G	Sidechain
3	AC	33	U	Sidechain
3	AC	35	A	Sidechain
3	AC	46	G	Sidechain
3	AC	58	A	Sidechain
3	AC	68	C	Sidechain
3	AC	9	A	Sidechain
3	AD	2	C	Sidechain
3	AD	3	C	Sidechain
3	AD	32	U	Sidechain
3	AD	59	U	Sidechain
3	AD	60	U	Sidechain
3	AD	64	A	Sidechain
3	AD	66	U	Sidechain
3	AD	67	C	Sidechain
6	AG	54	TYR	Sidechain
8	AI	4	TYR	Sidechain
13	AN	75	TYR	Sidechain
15	AP	59	TYR	Sidechain
16	AQ	34	TYR	Sidechain
50	B3	32	TYR	Sidechain
51	B4	29	THR	Mainchain
24	BA	1000	A	Sidechain
24	BA	1012	U	Sidechain
24	BA	1018	C	Sidechain
24	BA	1020	A	Sidechain
24	BA	1022	G	Sidechain
24	BA	1024	G	Sidechain
24	BA	1026	U	Sidechain
24	BA	1040	C	Sidechain
24	BA	1042	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
24	BA	1043	C	Sidechain
24	BA	1052	C	Sidechain
24	BA	1053	C	Sidechain
24	BA	1063	G	Sidechain
24	BA	1064	C	Sidechain
24	BA	1080	C	Sidechain
24	BA	1082	U	Sidechain
24	BA	1092	C	Sidechain
24	BA	1099	G	Sidechain
24	BA	1101	U	Sidechain
24	BA	1102	C	Sidechain
24	BA	1104	C	Sidechain
24	BA	1107	G	Sidechain
24	BA	1108	U	Sidechain
24	BA	1113	U	Sidechain
24	BA	1116	C	Sidechain
24	BA	1133	U	Sidechain
24	BA	114	U	Sidechain
24	BA	1141	U	Sidechain
24	BA	1142	U	Sidechain
24	BA	1143	A	Sidechain
24	BA	1154	G	Sidechain
24	BA	1155	A	Sidechain
24	BA	1160	G	Sidechain
24	BA	1169	G	Sidechain
24	BA	1179	C	Sidechain
24	BA	1182	A	Sidechain
24	BA	1183	G	Sidechain
24	BA	1194	A	Sidechain
24	BA	1195	G	Sidechain
24	BA	1206	G	Sidechain
24	BA	1238	G	Sidechain
24	BA	1240	U	Sidechain
24	BA	1242	A	Sidechain
24	BA	1247	A	Sidechain
24	BA	1262	A	Sidechain
24	BA	1269	A	Sidechain
24	BA	1273	U	Sidechain
24	BA	1284	A	Sidechain
24	BA	1288	U	Sidechain
24	BA	1297	C	Sidechain
24	BA	1301	A	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
24	BA	1310	G	Sidechain
24	BA	135	G	Sidechain
24	BA	1357	U	Sidechain
24	BA	1359	A	Sidechain
24	BA	1363	C	Sidechain
24	BA	1367	A	Sidechain
24	BA	1368	G	Sidechain
24	BA	1372	U	Sidechain
24	BA	1379	A	Sidechain
24	BA	138	G	Sidechain
24	BA	1384	A	Sidechain
24	BA	1392	A	Sidechain
24	BA	1393	A	Sidechain
24	BA	1397	U	Sidechain
24	BA	14	A	Sidechain
24	BA	1405	U	Sidechain
24	BA	141(A)	C	Sidechain
24	BA	1416	G	Sidechain
24	BA	1418	G	Sidechain
24	BA	1444(A)	A	Sidechain
24	BA	1450	C	Sidechain
24	BA	1473	G	Sidechain
24	BA	1474	C	Sidechain
24	BA	1477	A	Sidechain
24	BA	1478	G	Sidechain
24	BA	1479	G	Sidechain
24	BA	1489	U	Sidechain
24	BA	1497	U	Sidechain
24	BA	1513	C	Sidechain
24	BA	1515	C	Sidechain
24	BA	1516	U	Sidechain
24	BA	1523	U	Sidechain
24	BA	1525	G	Sidechain
24	BA	1527	G	Sidechain
24	BA	1532	C	Sidechain
24	BA	1537	C	Sidechain
24	BA	1539	G	Sidechain
24	BA	1541	U	Sidechain
24	BA	1559	G	Sidechain
24	BA	1564	C	Sidechain
24	BA	1565	C	Sidechain
24	BA	1568	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
24	BA	1574	C	Sidechain
24	BA	1576	U	Sidechain
24	BA	1590	U	Sidechain
24	BA	1597	A	Sidechain
24	BA	1604	C	Sidechain
24	BA	1606	G	Sidechain
24	BA	1609	A	Sidechain
24	BA	1623	G	Sidechain
24	BA	1625	C	Sidechain
24	BA	1648	C	Sidechain
24	BA	1651	G	Sidechain
24	BA	1655	A	Sidechain
24	BA	1657	C	Sidechain
24	BA	1659	U	Sidechain
24	BA	1661	G	Sidechain
24	BA	1667	G	Sidechain
24	BA	1677	A	Sidechain
24	BA	1681	G	Sidechain
24	BA	1684	C	Sidechain
24	BA	1685	C	Sidechain
24	BA	1686	C	Sidechain
24	BA	1687	G	Sidechain
24	BA	1688	U	Sidechain
24	BA	1691	C	Sidechain
24	BA	1693	U	Sidechain
24	BA	1694	C	Sidechain
24	BA	1699	G	Sidechain
24	BA	1704	G	Sidechain
24	BA	1711	C	Sidechain
24	BA	1716	U	Sidechain
24	BA	1718	G	Sidechain
24	BA	1727	U	Sidechain
24	BA	1735	C	Sidechain
24	BA	1741	C	Sidechain
24	BA	1742	C	Sidechain
24	BA	1743	G	Sidechain
24	BA	176	G	Sidechain
24	BA	1766	U	Sidechain
24	BA	1768	U	Sidechain
24	BA	1774	C	Sidechain
24	BA	1775	U	Sidechain
24	BA	1776	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
24	BA	1777	U	Sidechain
24	BA	1778	U	Sidechain
24	BA	1779	U	Sidechain
24	BA	1780	A	Sidechain
24	BA	1783	A	Sidechain
24	BA	1786	A	Sidechain
24	BA	1790	C	Sidechain
24	BA	1791	A	Sidechain
24	BA	1794	U	Sidechain
24	BA	1798	U	Sidechain
24	BA	1800	C	Sidechain
24	BA	1808	U	Sidechain
24	BA	1809	A	Sidechain
24	BA	1810	A	Sidechain
24	BA	1815	A	Sidechain
24	BA	1822	G	Sidechain
24	BA	1831	G	Sidechain
24	BA	1843	C	Sidechain
24	BA	185	U	Sidechain
24	BA	188	G	Sidechain
24	BA	1902	C	Sidechain
24	BA	1904	G	Sidechain
24	BA	1911	U	Sidechain
24	BA	1916	A	Sidechain
24	BA	1918	A	Sidechain
24	BA	1919	A	Sidechain
24	BA	192	C	Sidechain
24	BA	1921	G	Sidechain
24	BA	1923	U	Sidechain
24	BA	1926	U	Sidechain
24	BA	1928	A	Sidechain
24	BA	1931	U	Sidechain
24	BA	1940	U	Sidechain
24	BA	1962	C	Sidechain
24	BA	1964	G	Sidechain
24	BA	1965	C	Sidechain
24	BA	1967	C	Sidechain
24	BA	1971	A	Sidechain
24	BA	1981	A	Sidechain
24	BA	1982	C	Sidechain
24	BA	1983	C	Sidechain
24	BA	1985	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
24	BA	1989	G	Sidechain
24	BA	199	A	Sidechain
24	BA	1998	G	Sidechain
24	BA	2017	U	Sidechain
24	BA	2021	C	Sidechain
24	BA	2026	C	Sidechain
24	BA	2033	A	Sidechain
24	BA	2042	A	Sidechain
24	BA	2048	G	Sidechain
24	BA	2049	G	Sidechain
24	BA	2051	A	Sidechain
24	BA	2061	G	Sidechain
24	BA	2068	U	Sidechain
24	BA	2075	U	Sidechain
24	BA	2076	U	Sidechain
24	BA	2089	U	Sidechain
24	BA	2094	G	Sidechain
24	BA	2095	C	Sidechain
24	BA	2096	U	Sidechain
24	BA	2098	U	Sidechain
24	BA	2103	C	Sidechain
24	BA	2119	A	Sidechain
24	BA	212	G	Sidechain
24	BA	2126	A	Sidechain
24	BA	2130	U	Sidechain
24	BA	2138	C	Sidechain
24	BA	2148	G	Sidechain
24	BA	2161	C	Sidechain
24	BA	2185	C	Sidechain
24	BA	2189	U	Sidechain
24	BA	2190	G	Sidechain
24	BA	2193	G	Sidechain
24	BA	2195	C	Sidechain
24	BA	221	A	Sidechain
24	BA	2215	G	Sidechain
24	BA	224	G	Sidechain
24	BA	2246	G	Sidechain
24	BA	2259	G	Sidechain
24	BA	2262	U	Sidechain
24	BA	2263	C	Sidechain
24	BA	2265	U	Sidechain
24	BA	2267	A	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
24	BA	2274	A	Sidechain
24	BA	2278	A	Sidechain
24	BA	2284	C	Sidechain
24	BA	2287	A	Sidechain
24	BA	2293	C	Sidechain
24	BA	2295	C	Sidechain
24	BA	2296	U	Sidechain
24	BA	2297	C	Sidechain
24	BA	2299	G	Sidechain
24	BA	2314	C	Sidechain
24	BA	2326	C	Sidechain
24	BA	2332	U	Sidechain
24	BA	2336	A	Sidechain
24	BA	2337	G	Sidechain
24	BA	2352	A	Sidechain
24	BA	2364	C	Sidechain
24	BA	237	C	Sidechain
24	BA	2384	G	Sidechain
24	BA	2395	C	Sidechain
24	BA	2399	G	Sidechain
24	BA	2406	U	Sidechain
24	BA	2408	U	Sidechain
24	BA	2413	G	Sidechain
24	BA	2422	A	Sidechain
24	BA	2423	U	Sidechain
24	BA	2425	A	Sidechain
24	BA	2427	C	Sidechain
24	BA	2431	U	Sidechain
24	BA	2432	A	Sidechain
24	BA	2433	A	Sidechain
24	BA	2434	A	Sidechain
24	BA	2435	A	Sidechain
24	BA	2436	G	Sidechain
24	BA	2439	A	Sidechain
24	BA	2444	G	Sidechain
24	BA	2449	U	Sidechain
24	BA	2450	A	Sidechain
24	BA	2458	G	Sidechain
24	BA	2467	C	Sidechain
24	BA	2471	C	Sidechain
24	BA	2480	C	Sidechain
24	BA	2483	C	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
24	BA	2486	G	Sidechain
24	BA	2490	G	Sidechain
24	BA	2491	U	Sidechain
24	BA	2493	U	Sidechain
24	BA	2498	C	Sidechain
24	BA	25	U	Sidechain
24	BA	2500	U	Sidechain
24	BA	2501	C	Sidechain
24	BA	2504	U	Sidechain
24	BA	2505	G	Sidechain
24	BA	2507	C	Sidechain
24	BA	2508	G	Sidechain
24	BA	251	A	Sidechain
24	BA	2510	C	Sidechain
24	BA	2514	U	Sidechain
24	BA	2515	C	Sidechain
24	BA	2516	G	Sidechain
24	BA	2517	C	Sidechain
24	BA	2519	U	Sidechain
24	BA	2521	C	Sidechain
24	BA	2524	G	Sidechain
24	BA	2527	C	Sidechain
24	BA	2529	G	Sidechain
24	BA	253	C	Sidechain
24	BA	2530	A	Sidechain
24	BA	2537	U	Sidechain
24	BA	2540	C	Sidechain
24	BA	2555	U	Sidechain
24	BA	2560	C	Sidechain
24	BA	2568	C	Sidechain
24	BA	2569	G	Sidechain
24	BA	257	A	Sidechain
24	BA	2579	C	Sidechain
24	BA	2580	U	Sidechain
24	BA	2583	G	Sidechain
24	BA	2590	A	Sidechain
24	BA	2595	G	Sidechain
24	BA	2597	G	Sidechain
24	BA	2601	C	Sidechain
24	BA	2602	A	Sidechain
24	BA	2606	C	Sidechain
24	BA	2607	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
24	BA	2608	G	Sidechain
24	BA	2609	U	Sidechain
24	BA	2613	U	Sidechain
24	BA	2615	U	Sidechain
24	BA	2619	C	Sidechain
24	BA	2623	G	Sidechain
24	BA	2629	A	Sidechain
24	BA	2637	U	Sidechain
24	BA	2642	G	Sidechain
24	BA	2645	G	Sidechain
24	BA	2652	C	Sidechain
24	BA	2665	A	Sidechain
24	BA	2667	C	Sidechain
24	BA	2684	U	Sidechain
24	BA	2687	U	Sidechain
24	BA	2698	U	Sidechain
24	BA	270(C)	C	Sidechain
24	BA	270(D)	C	Sidechain
24	BA	270(G)	C	Sidechain
24	BA	270(Q)	C	Sidechain
24	BA	2706	G	Sidechain
24	BA	2713	A	Sidechain
24	BA	2724	C	Sidechain
24	BA	2725	A	Sidechain
24	BA	273(C)	C	Sidechain
24	BA	273(D)	C	Sidechain
24	BA	2737	G	Sidechain
24	BA	2741	A	Sidechain
24	BA	2746	U	Sidechain
24	BA	2763	G	Sidechain
24	BA	2764	A	Sidechain
24	BA	2777	G	Sidechain
24	BA	2781	A	Sidechain
24	BA	2787	C	Sidechain
24	BA	2791	C	Sidechain
24	BA	2794	C	Sidechain
24	BA	280	C	Sidechain
24	BA	2816	C	Sidechain
24	BA	2817	G	Sidechain
24	BA	2825	C	Sidechain
24	BA	2853	C	Sidechain
24	BA	2867	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
24	BA	2885	C	Sidechain
24	BA	2887	U	Sidechain
24	BA	2891	G	Sidechain
24	BA	2897	U	Sidechain
24	BA	2898	U	Sidechain
24	BA	2901	C	Sidechain
24	BA	296	C	Sidechain
24	BA	3	U	Sidechain
24	BA	31	C	Sidechain
24	BA	32	C	Sidechain
24	BA	322	A	Sidechain
24	BA	337	C	Sidechain
24	BA	350	U	Sidechain
24	BA	351	G	Sidechain
24	BA	353	G	Sidechain
24	BA	358	U	Sidechain
24	BA	360	G	Sidechain
24	BA	362	U	Sidechain
24	BA	366	C	Sidechain
24	BA	380	U	Sidechain
24	BA	383	U	Sidechain
24	BA	386	G	Sidechain
24	BA	417	C	Sidechain
24	BA	427	U	Sidechain
24	BA	433	C	Sidechain
24	BA	445	C	Sidechain
24	BA	446	G	Sidechain
24	BA	448	U	Sidechain
24	BA	459	U	Sidechain
24	BA	474	G	Sidechain
24	BA	511	U	Sidechain
24	BA	513	A	Sidechain
24	BA	514	A	Sidechain
24	BA	525	U	Sidechain
24	BA	534	U	Sidechain
24	BA	553	U	Sidechain
24	BA	584	C	Sidechain
24	BA	585	G	Sidechain
24	BA	601	C	Sidechain
24	BA	605	C	Sidechain
24	BA	606	U	Sidechain
24	BA	607	U	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
24	BA	608	A	Sidechain
24	BA	610	C	Sidechain
24	BA	611	C	Sidechain
24	BA	618(A)	C	Sidechain
24	BA	621	A	Sidechain
24	BA	639	U	Sidechain
24	BA	641	C	Sidechain
24	BA	643	A	Sidechain
24	BA	646	A	Sidechain
24	BA	647	G	Sidechain
24	BA	650	C	Sidechain
24	BA	658	C	Sidechain
24	BA	67	U	Sidechain
24	BA	670	A	Sidechain
24	BA	679	C	Sidechain
24	BA	697	C	Sidechain
24	BA	703	U	Sidechain
24	BA	704	G	Sidechain
24	BA	709	U	Sidechain
24	BA	715	G	Sidechain
24	BA	724	U	Sidechain
24	BA	729	G	Sidechain
24	BA	730	C	Sidechain
24	BA	733	G	Sidechain
24	BA	744	G	Sidechain
24	BA	750	A	Sidechain
24	BA	758	C	Sidechain
24	BA	76	C	Sidechain
24	BA	762	U	Sidechain
24	BA	767	U	Sidechain
24	BA	774	A	Sidechain
24	BA	775	G	Sidechain
24	BA	776	G	Sidechain
24	BA	779	U	Sidechain
24	BA	786	C	Sidechain
24	BA	792	G	Sidechain
24	BA	795	C	Sidechain
24	BA	800	A	Sidechain
24	BA	801	G	Sidechain
24	BA	805	G	Sidechain
24	BA	807	U	Sidechain
24	BA	811	U	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
24	BA	821	A	Sidechain
24	BA	830	G	Sidechain
24	BA	832	G	Sidechain
24	BA	835	A	Sidechain
24	BA	843	G	Sidechain
24	BA	847	U	Sidechain
24	BA	848	G	Sidechain
24	BA	858	U	Sidechain
24	BA	860	U	Sidechain
24	BA	865	C	Sidechain
24	BA	879	G	Sidechain
24	BA	9	U	Sidechain
24	BA	904	C	Sidechain
24	BA	907	U	Sidechain
24	BA	913	U	Sidechain
24	BA	915	C	Sidechain
24	BA	922	U	Sidechain
24	BA	924	C	Sidechain
24	BA	930	U	Sidechain
24	BA	931	G	Sidechain
24	BA	944	G	Sidechain
24	BA	946	G	Sidechain
24	BA	955	C	Sidechain
24	BA	965	C	Sidechain
24	BA	969	U	Sidechain
24	BA	971	C	Sidechain
24	BA	972	G	Sidechain
24	BA	974(A)	C	Sidechain
24	BA	978	G	Sidechain
24	BA	980	A	Sidechain
24	BA	981	A	Sidechain
24	BA	986	C	Sidechain
24	BA	987	G	Sidechain
24	BA	990	A	Sidechain
25	BB	10	C	Sidechain
25	BB	101	A	Sidechain
25	BB	109	G	Sidechain
25	BB	11	C	Sidechain
25	BB	33	G	Sidechain
25	BB	34	U	Sidechain
25	BB	55	U	Sidechain
25	BB	60	C	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
25	BB	68	C	Sidechain
25	BB	7	G	Sidechain
25	BB	71	C	Sidechain
25	BB	77	U	Sidechain
25	BB	8	U	Sidechain
25	BB	89	G	Sidechain
25	BB	90	C	Sidechain
25	BB	93	C	Sidechain
25	BB	97	G	Sidechain
25	BB	98	G	Sidechain
26	BC	179	SER	Mainchain
28	BE	151	TYR	Sidechain
34	BM	4	TYR	Sidechain
37	BP	93	TYR	Sidechain
40	BS	32	TYR	Sidechain
42	BU	91	TYR	Sidechain

5.2 Close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32554	0	16431	6724	0
2	A1	1025	0	511	175	0
3	AB	1623	0	821	225	0
3	AC	1623	0	821	322	0
3	AD	1623	0	821	288	0
4	AE	1900	0	1951	1040	0
5	AF	1612	0	1677	721	0
6	AG	1703	0	1763	869	0
7	AH	1146	0	1207	588	0
8	AI	843	0	857	384	0
9	AJ	1257	0	1296	577	0
10	AK	1116	0	1177	735	0
11	AL	1010	0	1037	470	0
12	AM	794	0	840	358	0
13	AN	885	0	904	471	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
14	AO	970	0	1057	512	0
15	AP	997	0	1072	521	0
16	AQ	492	0	529	278	0
17	AR	734	0	771	332	0
18	AS	700	0	720	353	0
19	AT	857	0	930	450	0
20	AU	597	0	668	369	0
21	AV	647	0	673	312	0
22	AW	763	0	861	374	0
23	AX	208	0	221	83	0
24	BA	62218	0	31356	15296	0
25	BB	2641	0	1337	605	1
26	BC	1742	0	1796	739	0
27	BD	2124	0	2207	1491	0
28	BE	1578	0	1647	1084	0
29	BF	1625	0	1666	822	0
30	BG	1482	0	1546	898	0
31	BH	1328	0	1408	697	0
32	BK	1155	0	1244	502	0
33	BL	1025	0	1074	441	0
34	BM	1113	0	1183	782	0
35	BN	932	0	994	712	0
36	BO	1106	0	1183	795	0
37	BP	1080	0	1127	752	0
38	BQ	960	0	1021	603	0
39	BR	877	0	938	517	0
40	BS	976	0	1033	636	0
41	BT	964	0	1022	742	0
42	BU	779	0	852	574	0
43	BV	876	0	941	459	0
44	BW	742	0	800	360	0
45	BX	844	0	930	421	0
46	BY	1435	0	1463	720	0
47	BZ	670	0	700	354	0
48	B1	567	0	621	312	0
49	B2	469	0	518	320	0
50	B3	581	0	577	397	0
51	B4	445	0	459	277	0
52	B5	426	0	452	279	0
53	B6	430	0	480	273	0
54	B7	515	0	587	396	0
55	B8	307	0	335	150	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	151691	0	103113	46416	1

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 183.

All (46416) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2447:G:C8	24:BA:2500:U:H3'	1.23	1.61
24:BA:1202:C:C5	24:BA:1203:G:H1'	1.39	1.55
24:BA:1203:G:O6	24:BA:1240:U:C2	1.66	1.48
24:BA:2459:A:N3	24:BA:2460:U:H1'	1.38	1.38
24:BA:2596:U:H2'	27:BD:242:ARG:CZ	1.55	1.35
27:BD:8:PRO:O	27:BD:25:THR:HA	1.22	1.35
46:BY:27:VAL:HG23	46:BY:85:HIS:NE2	1.39	1.34
35:BN:97:ARG:HB2	35:BN:97:ARG:NH2	1.44	1.32
1:AA:38:G:N2	1:AA:397:A:H5''	1.43	1.32
50:B3:43:TYR:HA	50:B3:61:ARG:NH2	1.45	1.32
50:B3:58:ARG:O	50:B3:61:ARG:HB2	1.29	1.31
28:BE:92:THR:CA	28:BE:95:ILE:HB	1.59	1.31
37:BP:67:ARG:CZ	37:BP:103:MET:HB3	1.60	1.30
32:BK:92:VAL:HB	32:BK:120:ILE:O	1.25	1.30
28:BE:92:THR:HA	28:BE:95:ILE:CB	1.60	1.30
24:BA:1241:A:H5''	24:BA:1241:A:N3	1.46	1.30
35:BN:3:GLN:NE2	35:BN:33:ALA:HB3	1.45	1.29
46:BY:27:VAL:HG23	46:BY:85:HIS:CE1	1.65	1.29
42:BU:32:THR:HA	42:BU:64:HIS:O	1.32	1.28
9:AJ:78:ARG:O	9:AJ:84:ASN:HA	1.33	1.28
41:BT:44:ASN:O	41:BT:47:TYR:HB2	1.31	1.28
24:BA:1559:G:N1	24:BA:1560:G:H4'	1.47	1.28
35:BN:6:THR:O	35:BN:20:MET:HA	1.29	1.28
32:BK:87:LYS:HA	32:BK:121:LYS:O	1.30	1.27
27:BD:51:VAL:HB	27:BD:52:ARG:CZ	1.64	1.27
46:BY:24:LEU:O	46:BY:39:VAL:HB	1.32	1.27
29:BF:19:GLU:C	29:BF:20:LEU:HD23	1.55	1.26
24:BA:2447:G:C8	24:BA:2500:U:C3'	2.19	1.25
24:BA:1128:A:N6	24:BA:2518:A:H61	1.31	1.25
46:BY:27:VAL:CG2	46:BY:85:HIS:CE1	2.19	1.25
55:B8:19:ARG:O	55:B8:22:ARG:HB2	1.31	1.25
24:BA:2491:U:H3'	24:BA:2491:U:C6	1.69	1.24
24:BA:1202:C:C4	24:BA:1203:G:H1'	1.69	1.24
1:AA:1443:G:H4'	1:AA:1446:A:C5'	1.68	1.24
24:BA:1222:C:H42	24:BA:1227:A:N6	1.34	1.24

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BO:74:GLU:HB3	36:BO:111:ARG:O	1.37	1.23
24:BA:2591:C:H2'	24:BA:2592:G:C8	1.73	1.23
24:BA:2445:G:H2'	24:BA:2446:G:C8	1.72	1.23
39:BR:17:ARG:CZ	39:BR:89:ARG:HB2	1.67	1.23
24:BA:2459:A:H2'	24:BA:2460:U:O4'	1.30	1.23
34:BM:43:THR:HB	34:BM:44:PRO:CD	1.70	1.22
24:BA:2748:A:N3	31:BH:67:LEU:HD21	1.53	1.22
1:AA:901:A:C2	1:AA:902:G:H1'	1.74	1.22
1:AA:1062:U:H2'	1:AA:1063:C:C5	1.74	1.21
18:AS:18:ARG:NH1	18:AS:35:LYS:HB2	1.53	1.21
29:BF:4:VAL:O	29:BF:20:LEU:CD1	1.87	1.21
40:BS:33:LYS:HA	40:BS:46:GLU:O	1.41	1.21
24:BA:1312:U:H2'	24:BA:1313:U:O4'	1.34	1.21
41:BT:89:GLU:HB3	42:BU:52:VAL:N	1.56	1.21
1:AA:1261:A:H61	1:AA:1274:G:H1'	1.04	1.21
38:BQ:77:ARG:HH11	38:BQ:77:ARG:HB2	1.06	1.21
29:BF:19:GLU:O	29:BF:20:LEU:HD23	1.34	1.20
24:BA:811:U:O4	36:BO:22:GLY:HA3	1.37	1.20
1:AA:449:C:C2	1:AA:450:G:H1'	1.76	1.20
24:BA:931:G:C8	24:BA:932:G:H1'	1.76	1.20
24:BA:1206:G:H2'	24:BA:1207:C:O4'	1.39	1.19
40:BS:53:ARG:HB2	40:BS:65:LYS:O	1.42	1.19
6:AG:19:LEU:HA	6:AG:21:LEU:HD12	1.20	1.19
24:BA:2333:A:H1'	24:BA:2335:A:N3	1.54	1.19
50:B3:65:ASP:HA	50:B3:68:ARG:HH22	1.06	1.19
27:BD:246:PRO:HD2	27:BD:250:TRP:HB3	1.21	1.19
40:BS:32:TYR:O	40:BS:47:GLY:HA2	1.41	1.19
24:BA:2553:G:N2	24:BA:2554:U:H1'	1.56	1.19
38:BQ:32:GLY:O	38:BQ:115:GLU:HB2	1.39	1.19
41:BT:15:LYS:HA	41:BT:18:LEU:HD23	1.25	1.18
1:AA:41:G:H2'	1:AA:42:G:H8	1.08	1.18
24:BA:2375:G:H21	24:BA:2378:A:N6	1.41	1.18
10:AK:6:ILE:HG23	10:AK:7:ALA:H	1.06	1.18
29:BF:7:TYR:O	29:BF:18:ARG:HG3	1.44	1.18
35:BN:25:LEU:HB3	35:BN:38:VAL:O	1.38	1.18
24:BA:280:C:O3'	24:BA:281:G:H3'	1.40	1.18
15:AP:24:GLY:HA3	15:AP:66:LEU:HB2	1.26	1.18
36:BO:73:GLY:HA2	36:BO:111:ARG:NH1	1.56	1.18
24:BA:1475:G:H1	24:BA:1477:A:N6	1.42	1.18
24:BA:197:A:N6	24:BA:248:G:H22	1.41	1.18
49:B2:6:VAL:HG23	49:B2:35:ARG:HG3	1.22	1.18
24:BA:1203:G:C6	24:BA:1241:A:H8	1.60	1.18

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:586:A:H5'	29:BF:89:VAL:HG21	1.19	1.18
24:BA:729:G:H2'	24:BA:730:C:H4'	1.18	1.17
48:B1:44:LYS:O	48:B1:48:LEU:HB2	1.41	1.17
42:BU:27:ALA:HB1	42:BU:33:VAL:HG11	1.26	1.17
15:AP:23:TYR:HB3	15:AP:67:GLU:HA	1.27	1.17
27:BD:55:GLY:N	27:BD:219:PRO:HD2	1.59	1.17
24:BA:2132:U:H3'	24:BA:2133:G:C5'	1.75	1.17
22:AW:44:ALA:HB3	22:AW:91:LEU:HD12	1.19	1.17
27:BD:142:VAL:O	27:BD:163:ALA:HB3	1.41	1.17
24:BA:1804:C:H4'	27:BD:250:TRP:CH2	1.78	1.17
14:AO:36:VAL:O	14:AO:58:VAL:HG13	1.44	1.17
24:BA:1677:A:H2'	24:BA:1678:G:C8	1.80	1.17
24:BA:2447:G:H5''	24:BA:2500:U:OP2	1.44	1.17
40:BS:64:ARG:HD3	40:BS:65:LYS:H	1.05	1.17
1:AA:1443:G:C4'	1:AA:1446:A:H5'	1.73	1.17
38:BQ:78:LYS:O	38:BQ:82:GLU:HB2	0.99	1.17
20:AU:58:LEU:HB3	20:AU:62:GLU:HB3	1.27	1.17
54:B7:50:LEU:HD23	54:B7:51:ALA:H	1.08	1.17
24:BA:2239:G:H3'	24:BA:2240:C:H5''	1.23	1.17
24:BA:2701:C:H3'	24:BA:2702:U:H5''	1.17	1.17
24:BA:559:G:H2'	24:BA:560:C:C6	1.79	1.17
37:BP:124:LYS:HB3	37:BP:124:LYS:HZ2	1.01	1.17
37:BP:48:GLU:O	37:BP:51:ARG:HG3	1.44	1.17
21:AV:5:LEU:HB2	21:AV:9:VAL:HG22	1.17	1.16
52:B5:36:LEU:O	52:B5:51:GLU:HB3	1.44	1.16
34:BM:89:LYS:HE2	34:BM:89:LYS:H	1.00	1.16
37:BP:34:LEU:O	37:BP:103:MET:HB2	1.43	1.16
42:BU:6:LYS:HB3	42:BU:10:LYS:HA	1.25	1.16
1:AA:665:A:H2'	1:AA:725:G:N2	1.58	1.16
12:AM:50:ILE:HA	12:AM:60:ARG:HG3	1.21	1.16
24:BA:1203:G:C6	24:BA:1241:A:C8	2.33	1.16
24:BA:2658:C:C2'	24:BA:2659:G:H5'	1.74	1.16
10:AK:84:ARG:HB3	10:AK:84:ARG:HH11	1.07	1.16
24:BA:1270:C:H1'	24:BA:1325:G:N7	1.58	1.16
39:BR:62:LYS:HD2	39:BR:64:GLU:HB3	1.17	1.16
6:AG:59:ARG:NH1	6:AG:59:ARG:HA	1.61	1.16
19:AT:5:VAL:HG22	19:AT:60:ILE:HA	1.18	1.16
37:BP:44:ALA:O	37:BP:47:ILE:HB	1.40	1.16
9:AJ:76:ARG:HB2	9:AJ:156:TRP:HE1	1.01	1.16
24:BA:1555:G:H2'	24:BA:1556:C:C6	1.80	1.16
38:BQ:25:ALA:O	38:BQ:29:LEU:HG	1.42	1.16
50:B3:66:SER:HA	50:B3:69:LYS:HD2	1.27	1.16

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:28:A:H1'	24:BA:513:A:N1	1.61	1.16
24:BA:1543:A:H3'	24:BA:1544:C:H4'	1.20	1.16
27:BD:127:VAL:HA	27:BD:193:VAL:HG12	1.25	1.16
28:BE:117:MET:SD	28:BE:136:ARG:HG2	1.86	1.16
47:BZ:5:LYS:HG2	47:BZ:6:GLY:H	1.05	1.16
3:AB:52:G:O4'	24:BA:2471:C:H5'	1.44	1.16
9:AJ:126:ASP:HA	9:AJ:131:LYS:HE3	1.25	1.16
29:BF:30:PRO:O	29:BF:33:LEU:HG	1.46	1.16
24:BA:675:A:H4'	29:BF:67:GLN:HE22	1.06	1.16
1:AA:953:G:O2'	15:AP:125:ARG:HA	1.46	1.15
18:AS:39:TYR:HB2	18:AS:49:LEU:HD13	1.17	1.15
34:BM:69:GLN:HE22	34:BM:87:LEU:HD22	1.10	1.15
42:BU:40:LEU:HG	42:BU:55:ALA:N	1.60	1.15
27:BD:181:GLU:HG3	27:BD:270:ILE:HB	1.26	1.15
31:BH:38:SER:HB3	31:BH:41:MET:HG3	1.19	1.15
1:AA:1405:G:N2	1:AA:1517:G:H22	1.41	1.15
1:AA:266:G:H3'	19:AT:67:LYS:HD2	1.22	1.15
52:B5:20:ASN:HD22	52:B5:41:PRO:HB2	1.09	1.15
24:BA:820:A:H2'	24:BA:821:A:H5'	1.28	1.15
24:BA:966:G:H1'	24:BA:2267:A:N6	1.61	1.15
35:BN:62:VAL:HG23	35:BN:83:ALA:HA	1.26	1.15
36:BO:107:LYS:NZ	36:BO:110:TYR:HB3	1.61	1.15
38:BQ:86:ARG:HB3	38:BQ:86:ARG:HH11	1.09	1.15
24:BA:1202:C:C5	24:BA:1203:G:C1'	2.29	1.15
24:BA:1542:G:H1'	24:BA:1543:A:C6	1.81	1.15
42:BU:14:VAL:HG11	42:BU:19:LYS:HG3	1.26	1.15
1:AA:764:C:H2'	1:AA:765:G:C8	1.81	1.15
27:BD:142:VAL:HG12	27:BD:193:VAL:HA	1.28	1.15
46:BY:57:ILE:HG12	46:BY:70:LEU:HB3	1.16	1.15
7:AH:48:ALA:CB	7:AH:53:LEU:HB3	1.77	1.15
20:AU:74:ARG:HG2	20:AU:81:PHE:HB3	1.25	1.15
24:BA:1646:C:H3'	24:BA:1647:G:H5'	1.23	1.15
28:BE:116:VAL:HG21	28:BE:138:PRO:HA	1.17	1.15
38:BQ:32:GLY:CA	38:BQ:116:LEU:HD21	1.76	1.15
24:BA:783:A:H5''	24:BA:2589:A:OP1	1.46	1.15
6:AG:31:CYS:SG	6:AG:33:MET:SD	2.44	1.15
24:BA:2416:C:C2'	24:BA:2417:C:H5''	1.77	1.15
24:BA:2712:U:H2'	24:BA:2712(A):A:H5''	1.28	1.15
25:BB:71:C:C2'	25:BB:72:G:H5'	1.76	1.15
45:BX:22:GLY:HA3	45:BX:73:ARG:NH1	1.60	1.15
1:AA:888:G:N2	1:AA:909:A:H62	1.41	1.14
38:BQ:78:LYS:O	38:BQ:82:GLU:CB	1.94	1.14

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:121:VAL:HB	6:AG:136:PRO:HG3	1.26	1.14
24:BA:1203:G:C6	24:BA:1240:U:C2	2.35	1.14
24:BA:2416:C:H2'	24:BA:2417:C:H5''	1.16	1.14
43:BV:19:LEU:HB3	51:B4:25:LEU:HD13	1.20	1.14
32:BK:21:VAL:HB	32:BK:26:ALA:HB2	1.24	1.14
46:BY:24:LEU:HB2	46:BY:41:LEU:HD21	1.26	1.14
51:B4:58:LEU:HD22	51:B4:59:GLU:H	1.03	1.14
27:BD:105:ILE:HG13	27:BD:106:ILE:HG12	1.29	1.14
24:BA:2489:G:H2'	24:BA:2490:G:C8	1.82	1.14
27:BD:196:VAL:HG12	27:BD:197:GLY:H	1.03	1.14
7:AH:31:LEU:HD12	7:AH:129:ILE:HG23	1.28	1.14
22:AW:87:LYS:HG3	22:AW:91:LEU:HD21	1.30	1.14
24:BA:2034:U:H3'	24:BA:2035:G:H5''	1.16	1.14
24:BA:2581:G:N1	24:BA:2610:C:H2'	1.62	1.14
24:BA:2596:U:H2'	27:BD:242:ARG:NH1	1.62	1.14
26:BC:19:ILE:HD12	26:BC:223:ARG:HB3	1.26	1.14
14:AO:117:ARG:HH21	14:AO:124:LYS:HA	1.06	1.14
24:BA:2286:A:H4'	24:BA:2287:A:H1'	1.29	1.14
30:BG:61:ALA:HB2	30:BG:67:LYS:HB3	1.22	1.14
9:AJ:103:TRP:CH2	9:AJ:138:LYS:HA	1.81	1.14
13:AN:57:THR:HG23	13:AN:60:ALA:H	1.13	1.14
24:BA:662:G:H4'	36:BO:18:ARG:H	1.11	1.14
1:AA:80:G:H2'	1:AA:81:G:O4'	1.46	1.14
19:AT:25:ARG:HH21	19:AT:40:LYS:HD3	1.07	1.14
28:BE:13:ARG:NH2	28:BE:20:ALA:HB3	1.61	1.14
11:AL:55:ALA:CB	11:AL:58:HIS:CE1	2.30	1.14
30:BG:68:PRO:HB3	30:BG:72:ARG:HH22	1.00	1.14
34:BM:23:LEU:HD12	34:BM:63:THR:HG23	1.26	1.14
32:BK:93:THR:HG22	32:BK:96:ASP:CG	1.68	1.14
24:BA:1568:G:OP1	27:BD:61:LEU:HB2	1.47	1.13
39:BR:74:ALA:HB1	39:BR:108:GLY:CA	1.76	1.13
24:BA:2805:G:H3'	24:BA:2807:G:H5''	1.26	1.13
30:BG:170:ARG:O	30:BG:174:GLU:HB3	1.48	1.13
40:BS:64:ARG:HA	40:BS:64:ARG:NH1	1.61	1.13
21:AV:53:ASN:HD21	21:AV:56:GLN:HB2	1.05	1.13
49:B2:9:VAL:HG23	49:B2:10:LYS:H	1.07	1.13
24:BA:2327:A:H2'	24:BA:2328:A:H8	1.09	1.13
27:BD:196:VAL:CG1	27:BD:197:GLY:H	1.61	1.13
32:BK:4:ILE:O	32:BK:36:ALA:HB1	1.45	1.13
24:BA:1252:G:H8	24:BA:1253:A:H1'	1.09	1.13
24:BA:1275:A:H2	38:BQ:16:HIS:HA	1.11	1.13
24:BA:2047:U:H2'	24:BA:2048:G:H8	1.02	1.13

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2431:U:H2'	24:BA:2432:A:H5''	1.27	1.13
40:BS:50:ILE:CB	40:BS:66:VAL:HB	1.77	1.13
32:BK:127:VAL:HG22	32:BK:141:LYS:HA	1.26	1.13
6:AG:55:ALA:O	6:AG:59:ARG:HG2	1.48	1.13
14:AO:37:CYS:HA	14:AO:58:VAL:HG22	1.20	1.13
24:BA:612:G:H4'	24:BA:616:A:N6	1.62	1.13
38:BQ:105:ARG:HA	38:BQ:105:ARG:CZ	1.79	1.13
24:BA:1128:A:H62	24:BA:2518:A:N6	1.45	1.13
24:BA:2278:A:OP1	37:BP:14:ARG:HG3	1.47	1.13
2:A1:29:G:H2'	2:A1:30:U:H5''	1.18	1.13
24:BA:974:G:H3'	24:BA:974(A):C:H5''	1.23	1.13
30:BG:19:LEU:HG	30:BG:22:ARG:CZ	1.77	1.13
46:BY:176:PRO:HB2	46:BY:179:ASP:HA	1.14	1.13
19:AT:5:VAL:HG13	19:AT:59:ILE:O	1.49	1.13
24:BA:1024:G:N2	24:BA:1139:G:H1	1.44	1.13
24:BA:1956:U:H2'	24:BA:1957:C:C6	1.83	1.13
32:BK:54:GLN:HE21	32:BK:58:LEU:HG	0.96	1.13
1:AA:551:U:H2'	1:AA:552:U:C6	1.84	1.13
8:AI:3:ARG:HA	8:AI:67:MET:HE1	1.25	1.13
28:BE:195:LEU:HD13	28:BE:196:VAL:N	1.60	1.12
29:BF:200:GLU:OE1	29:BF:201:VAL:HG23	1.49	1.12
34:BM:27:ALA:HA	34:BM:30:ILE:HD12	1.31	1.12
1:AA:599:C:H4'	10:AK:130:GLY:HA3	1.17	1.12
24:BA:953:A:H2'	24:BA:954:G:H5'	1.15	1.12
1:AA:47:C:H4'	1:AA:48:C:H5''	1.30	1.12
24:BA:287:C:H2'	24:BA:288:C:C5	1.84	1.12
37:BP:109:VAL:HG11	37:BP:114:ALA:HB2	1.30	1.12
1:AA:1077:G:N2	1:AA:1079:G:H3'	1.63	1.12
30:BG:41:GLN:HE22	30:BG:155:MET:HG3	1.06	1.12
35:BN:39:ILE:HG12	35:BN:59:LYS:HZ1	1.11	1.12
1:AA:371:G:H2'	1:AA:372:C:H5'	1.13	1.12
9:AJ:46:ALA:HA	9:AJ:49:ILE:HD13	1.29	1.12
24:BA:2332:U:H4'	24:BA:2336:A:H62	1.07	1.12
39:BR:11:LYS:O	39:BR:14:VAL:HB	1.47	1.12
47:BZ:12:ASN:HA	47:BZ:14:ARG:CZ	1.78	1.12
18:AS:75:ARG:HG2	18:AS:80:PHE:HB3	1.30	1.12
48:B1:52:ILE:HA	48:B1:55:LEU:HD22	1.29	1.12
24:BA:242:G:H3'	54:B7:4:MET:HG3	1.19	1.12
27:BD:244:ARG:N	27:BD:245:PRO:HD3	1.60	1.12
40:BS:30:VAL:CG2	40:BS:90:GLN:HA	1.80	1.12
45:BX:28:LYS:HE2	45:BX:28:LYS:H	1.11	1.12
26:BC:97:GLU:HA	26:BC:100:ILE:HD12	1.30	1.12

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2496:C:OP1	37:BP:82:ARG:HG3	1.46	1.12
54:B7:34:TRP:C	54:B7:36:LYS:H	1.41	1.12
24:BA:2447:G:N7	24:BA:2500:U:H3'	1.62	1.12
24:BA:269:U:H5''	24:BA:270(Y):G:H2'	1.23	1.12
27:BD:168:ARG:HG2	27:BD:173:VAL:HG13	1.28	1.12
27:BD:7:LYS:HG2	27:BD:25:THR:HG22	1.15	1.12
35:BN:10:VAL:HG13	35:BN:11:ALA:H	1.06	1.12
38:BQ:79:LEU:HD23	38:BQ:80:PHE:N	1.64	1.12
1:AA:939:G:H5''	9:AJ:102:ARG:NH2	1.64	1.12
13:AN:61:ALA:HB1	13:AN:94:ALA:HB2	1.13	1.12
15:AP:48:LEU:HD21	15:AP:52:GLU:HB2	1.28	1.12
24:BA:2416:C:H5''	36:BO:59:LEU:HB2	1.16	1.12
44:BW:44:GLU:HG3	44:BW:51:VAL:HG23	1.28	1.12
5:AF:126:ARG:HB3	5:AF:128:PHE:HE1	1.03	1.12
24:BA:1466:G:H2'	24:BA:1547:C:H41	1.10	1.12
24:BA:2848:G:H22	24:BA:2867:G:H1'	1.12	1.12
31:BH:103:LEU:HB2	31:BH:115:VAL:HB	1.24	1.12
1:AA:408:A:H2'	1:AA:409:G:C8	1.85	1.11
21:AV:41:VAL:HB	21:AV:42:PRO:HD2	1.24	1.11
24:BA:270(C):C:H2'	24:BA:270(D):C:H6	1.10	1.11
30:BG:130:ASN:O	30:BG:159:VAL:HG23	1.50	1.11
34:BM:46:VAL:HG12	34:BM:47:ALA:H	0.98	1.11
36:BO:46:LYS:HB2	36:BO:49:ARG:HB2	1.31	1.11
37:BP:137:TYR:O	37:BP:138:ASP:CG	1.86	1.11
38:BQ:99:LYS:HD2	38:BQ:99:LYS:H	1.05	1.11
9:AJ:115:ARG:HB2	9:AJ:118:VAL:HG23	1.26	1.11
48:B1:27:LEU:HA	48:B1:30:LEU:HG	1.24	1.11
24:BA:261:G:H4'	24:BA:608:A:C2	1.84	1.11
24:BA:828:U:H2'	24:BA:829:A:H8	1.01	1.11
28:BE:8:LYS:HZ2	28:BE:9:VAL:HG13	1.15	1.11
40:BS:50:ILE:HB	40:BS:66:VAL:CB	1.80	1.11
40:BS:62:THR:HG22	40:BS:79:HIS:CA	1.79	1.11
1:AA:1080:A:H5'	7:AH:14:ARG:NH2	1.65	1.11
4:AE:219:VAL:HG12	4:AE:223:ILE:HD11	1.25	1.11
24:BA:2780:G:N2	34:BM:97:ARG:HH12	1.46	1.11
37:BP:23:GLY:HA3	37:BP:101:ARG:NH2	1.63	1.11
2:A1:30:U:H2'	2:A1:31:U:O4'	1.49	1.11
1:AA:587:G:H1'	1:AA:755:G:N2	1.65	1.11
24:BA:1872:A:H2'	24:BA:1878:G:H5'	1.24	1.11
24:BA:2564:A:H2'	24:BA:2565:A:C8	1.84	1.11
27:BD:44:ASN:HB2	27:BD:217:ARG:HH22	1.15	1.11
24:BA:2148:G:H2'	24:BA:2149:G:C8	1.86	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:40:C:H2'	3:AC:41:C:H5'	1.28	1.11
24:BA:2416:C:OP1	36:BO:59:LEU:HA	1.49	1.11
24:BA:1012:U:O4	34:BM:25:ARG:HB3	1.47	1.11
39:BR:3:ARG:HG2	39:BR:4:LEU:HG	1.31	1.11
14:AO:56:ALA:HB3	14:AO:68:ALA:O	1.45	1.11
49:B2:4:LEU:HB3	49:B2:37:LEU:HD23	1.28	1.11
24:BA:1520:U:H2'	24:BA:1521:G:H5''	1.13	1.11
24:BA:1718:G:H2'	24:BA:1725:G:C8	1.84	1.11
24:BA:221:A:H4'	24:BA:222:A:H5'	1.15	1.11
25:BB:101:A:H2'	25:BB:102:G:H8	1.13	1.11
27:BD:246:PRO:CD	27:BD:250:TRP:HB3	1.80	1.11
28:BE:104:VAL:HG22	28:BE:198:VAL:HG13	1.29	1.11
41:BT:44:ASN:HD21	42:BU:78:LYS:HG2	1.05	1.11
3:AD:18:G:H4'	3:AD:60:U:H3	1.12	1.11
26:BC:100:ILE:HG23	26:BC:127:LEU:HG	1.28	1.11
1:AA:955:U:H1'	1:AA:1227:A:H61	1.14	1.11
24:BA:2346:A:H1'	24:BA:2383:G:C8	1.84	1.11
24:BA:775:G:H2'	24:BA:794:G:N7	1.66	1.11
43:BV:69:LEU:HD23	43:BV:107:LEU:HD21	1.33	1.11
20:AU:66:LEU:HD12	20:AU:67:ALA:N	1.65	1.11
24:BA:1324:G:H1'	24:BA:1616:A:N6	1.65	1.11
27:BD:127:VAL:HG13	27:BD:194:GLY:HA3	1.25	1.11
31:BH:35:VAL:HG11	31:BH:72:ILE:HA	1.20	1.11
24:BA:2047:U:H2'	24:BA:2048:G:C8	1.84	1.11
24:BA:636:G:H22	36:BO:75:ILE:HD12	0.94	1.11
24:BA:869:G:H2'	24:BA:870:A:H5''	1.11	1.11
27:BD:134:ARG:HA	27:BD:168:ARG:NH1	1.63	1.11
7:AH:109:ILE:HG21	7:AH:135:THR:HG21	1.18	1.11
50:B3:5:ILE:HG22	50:B3:7:PRO:HD2	1.18	1.11
24:BA:2254:C:H2'	24:BA:2255:G:H5'	1.29	1.11
24:BA:452:G:H3'	24:BA:453:C:H5''	1.24	1.11
35:BN:3:GLN:HE22	35:BN:33:ALA:CB	1.63	1.11
41:BT:89:GLU:HG2	42:BU:52:VAL:HG23	1.11	1.11
3:AB:74:C:H42	24:BA:2555:U:H2'	1.03	1.10
7:AH:121:LYS:NZ	7:AH:122:GLU:H	1.48	1.10
7:AH:144:THR:HG22	7:AH:146:ALA:H	1.11	1.10
10:AK:37:ARG:HD3	10:AK:41:ARG:HG3	1.27	1.10
20:AU:72:ARG:HA	20:AU:75:ILE:HD12	1.28	1.10
24:BA:112:U:H3'	24:BA:113:G:H5''	1.12	1.10
24:BA:1598:C:H5''	44:BW:36:LYS:HB3	1.27	1.10
24:BA:364:C:H2'	24:BA:365:C:C6	1.86	1.10
24:BA:781:A:H1'	27:BD:222:ARG:HH12	1.07	1.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:7:MET:H	37:BP:70:PRO:HG2	1.04	1.10
38:BQ:88:ARG:HH11	38:BQ:88:ARG:HB2	0.98	1.10
10:AK:22:GLU:HA	10:AK:63:LEU:HD22	1.33	1.10
15:AP:97:PRO:HG2	15:AP:103:THR:HG22	1.15	1.10
15:AP:60:VAL:HA	15:AP:63:THR:HG22	1.32	1.10
51:B4:20:ARG:O	51:B4:23:HIS:HB2	1.49	1.10
35:BN:96:THR:HA	35:BN:117:LEU:HD11	1.26	1.10
6:AG:101:LEU:O	6:AG:104:VAL:HG22	1.49	1.10
14:AO:23:LYS:HE3	14:AO:23:LYS:HA	1.29	1.10
53:B6:21:ARG:HB3	53:B6:31:LEU:HD11	1.30	1.10
40:BS:62:THR:CG2	40:BS:79:HIS:HA	1.80	1.10
1:AA:371:G:C2'	1:AA:372:C:H5'	1.80	1.10
4:AE:56:ARG:NH1	4:AE:56:ARG:HB3	1.66	1.10
10:AK:86:ILE:HG21	10:AK:133:LEU:HB2	1.26	1.10
11:AL:50:LEU:HD11	11:AL:56:LEU:HA	1.32	1.10
24:BA:220:G:H4'	24:BA:234:C:H4'	1.28	1.10
24:BA:2572:A:H4'	24:BA:2573:C:H5''	1.19	1.10
26:BC:213:TYR:HB3	26:BC:223:ARG:HA	1.33	1.10
40:BS:54:ARG:HG2	40:BS:100:TYR:HB3	1.29	1.10
48:B1:55:LEU:O	48:B1:58:VAL:HG13	1.51	1.10
53:B6:32:LYS:HA	53:B6:35:ARG:HH11	1.06	1.10
1:AA:313:A:H2'	1:AA:314:C:C6	1.85	1.10
52:B5:16:CYS:HB2	52:B5:49:HIS:HA	1.16	1.10
25:BB:46:A:H2'	25:BB:47:C:C6	1.86	1.10
30:BG:53:LEU:HG	30:BG:72:ARG:HD2	1.12	1.10
30:BG:75:LYS:HG2	30:BG:84:LYS:HB2	1.27	1.10
34:BM:89:LYS:CE	34:BM:89:LYS:H	1.62	1.10
35:BN:39:ILE:HG12	35:BN:59:LYS:NZ	1.67	1.10
35:BN:68:GLU:OE2	35:BN:76:ALA:HB3	1.51	1.10
4:AE:213:LEU:HD22	4:AE:214:ILE:HD13	1.29	1.10
6:AG:20:TYR:HA	6:AG:26:CYS:SG	1.92	1.10
13:AN:58:PRO:HB2	13:AN:93:GLN:HB2	1.31	1.10
24:BA:965:C:H5'	24:BA:2273:A:H1'	1.30	1.10
24:BA:2725:A:H2'	24:BA:2726:U:H3'	1.30	1.10
24:BA:323:G:H2'	29:BF:170:LEU:HB2	1.34	1.10
27:BD:183:ARG:HG2	27:BD:268:ARG:HB2	1.25	1.10
35:BN:64:ARG:HH12	35:BN:77:ILE:HB	1.03	1.10
32:BK:81:VAL:HB	32:BK:88:ILE:HG12	1.31	1.10
26:BC:180:PHE:HB3	26:BC:185:LEU:HD21	1.30	1.10
8:AI:23:LYS:O	8:AI:26:ILE:HB	1.52	1.10
22:AW:50:GLU:H	22:AW:99:LEU:HD12	1.03	1.10
55:B8:17:ILE:HD12	55:B8:26:ILE:HD12	1.24	1.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1174:A:H2'	24:BA:1175:U:H5''	1.30	1.10
24:BA:2392:A:H1'	36:BO:55:ARG:NH1	1.66	1.10
42:BU:64:HIS:HB3	42:BU:96:ILE:HA	1.28	1.10
43:BV:11:ARG:HB2	43:BV:98:LYS:HE3	1.30	1.10
4:AE:184:VAL:O	4:AE:198:ASP:HB2	1.52	1.10
50:B3:7:PRO:HD3	50:B3:56:VAL:HG13	1.34	1.10
55:B8:20:HIS:HB2	55:B8:22:ARG:HG3	1.30	1.10
28:BE:8:LYS:HA	28:BE:8:LYS:HE2	1.33	1.10
33:BL:23:VAL:HG13	33:BL:27:LEU:HD12	1.11	1.10
35:BN:60:ALA:O	35:BN:83:ALA:HB1	1.51	1.10
37:BP:106:VAL:HG22	37:BP:107:ALA:H	1.00	1.10
46:BY:4:ARG:HG2	46:BY:5:LEU:H	1.14	1.10
4:AE:88:ALA:HB2	4:AE:219:VAL:HG22	1.13	1.09
1:AA:684:A:H4'	13:AN:12:ARG:HH22	1.13	1.09
16:AQ:58:LYS:HD3	16:AQ:59:ALA:N	1.67	1.09
21:AV:69:HIS:HB2	21:AV:74:PHE:HZ	1.17	1.09
24:BA:2421:G:H2'	24:BA:2422:A:C8	1.87	1.09
1:AA:677:U:H2'	1:AA:678:U:C5	1.86	1.09
1:AA:761:G:H5'	19:AT:102:GLY:HA3	1.30	1.09
4:AE:59:GLU:HB3	4:AE:221:LEU:HD21	1.29	1.09
6:AG:82:ALA:HB3	6:AG:89:THR:HG23	1.34	1.09
30:BG:148:MET:HG2	30:BG:151:ALA:HA	1.17	1.09
41:BT:88:ILE:C	42:BU:52:VAL:HA	1.70	1.09
41:BT:98:LEU:HD12	41:BT:105:VAL:HG21	1.34	1.09
1:AA:263:A:H2'	1:AA:264:U:H5''	1.19	1.09
50:B3:68:ARG:HH11	50:B3:68:ARG:N	1.49	1.09
24:BA:1967:C:H42	24:BA:1968:G:N2	1.48	1.09
24:BA:2564:A:H2'	24:BA:2565:A:H8	1.04	1.09
24:BA:265:A:H3'	24:BA:265:A:H8	1.08	1.09
24:BA:2645:G:H4'	24:BA:2732:G:O2'	1.49	1.09
24:BA:2748:A:H1'	31:BH:67:LEU:HD22	1.27	1.09
43:BV:13:SER:OG	43:BV:14:PRO:HD2	1.50	1.09
24:BA:1535:U:H2'	24:BA:1536:A:O4'	1.51	1.09
24:BA:2371:G:H4'	52:B5:46:HIS:HB3	1.34	1.09
24:BA:2581:G:H1	24:BA:2610:C:H2'	0.97	1.09
25:BB:71:C:H2'	25:BB:72:G:H5'	1.18	1.09
28:BE:13:ARG:HG3	28:BE:22:PRO:HD3	1.15	1.09
35:BN:64:ARG:HH11	35:BN:67:LYS:N	1.50	1.09
26:BC:22:ILE:HG21	26:BC:190:ARG:HH12	1.16	1.09
24:BA:1114:G:N2	24:BA:1115:G:H1'	1.65	1.09
24:BA:1488:G:H2'	24:BA:1489:U:H5'	1.33	1.09
52:B5:19:ARG:NH1	52:B5:41:PRO:HG3	1.66	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1613:G:H3'	24:BA:1614:A:H5'	1.32	1.09
24:BA:2572:A:H4'	24:BA:2573:C:C5'	1.81	1.09
24:BA:712:G:H2'	24:BA:713:G:H8	0.98	1.09
27:BD:169:GLU:HB3	27:BD:184:LYS:HZ1	1.16	1.09
31:BH:98:LEU:HG	31:BH:123:PHE:HB2	1.33	1.09
46:BY:176:PRO:CB	46:BY:179:ASP:HA	1.82	1.09
20:AU:70:ILE:HG22	20:AU:74:ARG:HE	1.18	1.09
24:BA:1405:U:H2'	24:BA:1406:U:C6	1.86	1.09
28:BE:146:THR:HB	28:BE:147:PRO:HD3	1.30	1.09
4:AE:174:VAL:O	4:AE:178:ARG:HG2	1.50	1.09
17:AR:62:GLN:HE21	17:AR:66:LEU:HD21	1.09	1.09
24:BA:1788:C:H2'	27:BD:222:ARG:NH2	1.66	1.09
24:BA:2654:A:H1'	24:BA:2656:U:O4	1.51	1.09
24:BA:270(X):G:H2'	24:BA:270(Y):G:H5'	1.32	1.09
27:BD:147:LEU:HG	27:BD:154:LYS:HD2	1.25	1.09
29:BF:197:ASP:HA	29:BF:200:GLU:CG	1.81	1.09
30:BG:92:VAL:HG13	30:BG:94:LEU:HD13	1.25	1.09
35:BN:19:ILE:HG22	35:BN:43:VAL:HA	1.34	1.09
5:AF:150:LYS:HB2	5:AF:173:VAL:HG21	1.33	1.09
52:B5:19:ARG:HH11	52:B5:19:ARG:HG2	1.12	1.09
54:B7:8:LYS:HD3	54:B7:11:LYS:HZ2	1.08	1.09
24:BA:1050:A:H2	24:BA:2751:G:H5'	1.12	1.09
24:BA:1085:A:H1'	24:BA:1086:A:H4'	1.32	1.09
24:BA:1754:C:O2	24:BA:1755:A:H1'	1.50	1.09
27:BD:146:GLU:HB2	27:BD:154:LYS:H	1.15	1.09
30:BG:49:ASP:O	30:BG:53:LEU:HB2	1.52	1.09
46:BY:98:MET:HG3	46:BY:133:ILE:HG21	1.35	1.09
24:BA:2148:G:H2'	24:BA:2149:G:H8	1.00	1.09
30:BG:91:ARG:HB2	30:BG:91:ARG:HH21	1.05	1.09
1:AA:38:G:H22	1:AA:397:A:C5'	1.66	1.09
24:BA:1475:G:N1	24:BA:1477:A:N6	2.01	1.09
24:BA:2344:U:H5''	52:B5:38:LYS:HG3	1.14	1.09
3:AB:63:G:H4'	24:BA:2482:G:O3'	1.49	1.09
24:BA:545:G:H1'	24:BA:549:G:H22	1.14	1.09
31:BH:104:GLU:O	31:BH:113:VAL:HB	1.52	1.09
35:BN:62:VAL:O	35:BN:63:VAL:HG22	1.52	1.09
41:BT:55:ARG:HG3	41:BT:58:ARG:HH21	1.05	1.09
1:AA:570:G:H5'	1:AA:820:U:H1'	1.33	1.09
8:AI:6:VAL:HG22	8:AI:8:ILE:HD11	1.33	1.09
24:BA:2421:G:H2'	24:BA:2422:A:H8	1.04	1.09
28:BE:36:ARG:HG3	28:BE:79:ARG:HH11	1.06	1.09
28:BE:45:THR:HB	28:BE:81:ILE:HA	1.10	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:770:C:H1'	1:AA:900:A:H2	1.12	1.08
5:AF:38:ARG:HH11	5:AF:38:ARG:HB3	0.94	1.08
10:AK:34:GLU:O	10:AK:37:ARG:HB3	1.53	1.08
10:AK:87:SER:HB2	10:AK:92:ARG:HA	1.18	1.08
16:AQ:45:ARG:HH11	16:AQ:45:ARG:HB2	1.17	1.08
24:BA:1813:G:H4'	27:BD:46:GLN:CB	1.80	1.08
29:BF:18:ARG:O	29:BF:19:GLU:HG3	1.50	1.08
30:BG:148:MET:HG2	30:BG:151:ALA:CA	1.82	1.08
34:BM:28:THR:O	34:BM:31:ALA:HB3	1.53	1.08
35:BN:122:LEU:N	40:BS:70:VAL:HG12	1.67	1.08
46:BY:55:HIS:CB	46:BY:101:PRO:HG3	1.83	1.08
1:AA:1107:C:H2'	1:AA:1108:G:H5'	1.09	1.08
1:AA:678:U:H2'	1:AA:679:C:C6	1.87	1.08
3:AC:6:G:H2'	3:AC:7:A:H8	1.15	1.08
5:AF:189:ALA:HB1	5:AF:196:LEU:HG	1.17	1.08
9:AJ:155:ARG:HA	9:AJ:155:ARG:CZ	1.82	1.08
17:AR:77:ARG:HH12	17:AR:81:LEU:HB2	1.08	1.08
49:B2:3:ARG:NH1	49:B2:3:ARG:HB3	1.66	1.08
24:BA:2025:C:H5'	34:BM:78:TYR:OH	1.54	1.08
45:BX:42:VAL:H	45:BX:61:ILE:HB	1.11	1.08
54:B7:5:LYS:CB	54:B7:60:LEU:HA	1.83	1.08
24:BA:1024:G:H5''	24:BA:1025:G:C5'	1.82	1.08
24:BA:858:U:O2'	24:BA:2268:A:H2'	1.53	1.08
24:BA:976:C:H5'	24:BA:1156:A:H62	0.98	1.08
28:BE:118:LYS:HE2	28:BE:118:LYS:HA	1.35	1.08
36:BO:45:LEU:HD23	36:BO:46:LYS:HG3	1.27	1.08
44:BW:32:PRO:HA	44:BW:77:LYS:HD2	1.35	1.08
46:BY:94:GLU:H	46:BY:95:PRO:HD3	1.12	1.08
1:AA:262:A:H2'	1:AA:263:A:C8	1.87	1.08
1:AA:558:G:H3'	1:AA:559:A:H5''	1.26	1.08
50:B3:18:CYS:H	50:B3:33:VAL:HB	1.10	1.08
24:BA:1788:C:H2'	27:BD:222:ARG:HH21	1.09	1.08
24:BA:911:A:H8	24:BA:2264:C:H1'	1.08	1.08
28:BE:105:THR:HB	28:BE:166:THR:HB	1.29	1.08
29:BF:164:ARG:HB2	29:BF:177:ALA:HB2	1.30	1.08
37:BP:34:LEU:HA	37:BP:131:ILE:HG12	1.23	1.08
39:BR:3:ARG:HG2	39:BR:4:LEU:H	1.04	1.08
41:BT:112:ARG:HH12	42:BU:50:PRO:HG3	0.95	1.08
13:AN:48:ILE:HD12	13:AN:63:LEU:HD22	1.31	1.08
24:BA:1637:A:H4'	24:BA:2711:A:O2'	1.52	1.08
27:BD:37:LEU:HD22	27:BD:64:ILE:HG22	1.10	1.08
29:BF:36:VAL:HG21	29:BF:183:VAL:HG21	1.36	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:66:ILE:HG22	37:BP:67:ARG:H	0.92	1.08
40:BS:48:ILE:HD13	40:BS:50:ILE:HD13	1.35	1.08
43:BV:59:VAL:HA	43:BV:63:ASP:HA	1.27	1.08
35:BN:4:PRO:HG2	35:BN:5:GLN:H	1.14	1.08
37:BP:23:GLY:HA3	37:BP:101:ARG:HH21	0.99	1.08
1:AA:815:A:H1'	1:AA:817:C:N4	1.68	1.08
24:BA:729:G:H2'	24:BA:730:C:C4'	1.84	1.08
24:BA:811:U:O2'	24:BA:1251:C:H1'	1.53	1.08
27:BD:196:VAL:HG12	27:BD:197:GLY:N	1.66	1.08
24:BA:1566:A:C2	27:BD:215:LEU:HD13	1.88	1.08
38:BQ:98:LEU:O	38:BQ:112:ALA:HB1	1.54	1.08
41:BT:57:PHE:HA	41:BT:60:LEU:HG	1.34	1.08
1:AA:1477:C:H2'	1:AA:1478:C:H6	1.18	1.08
17:AR:71:GLN:HG3	17:AR:75:PRO:HB3	1.32	1.08
24:BA:2348:U:H3'	54:B7:42:ARG:HH22	0.98	1.08
24:BA:1697:G:H3'	24:BA:1698:A:C5'	1.80	1.08
27:BD:147:LEU:HB3	27:BD:185:VAL:HG22	1.28	1.08
27:BD:5:LYS:HZ3	27:BD:31:LYS:NZ	1.51	1.08
28:BE:51:PHE:O	28:BE:74:PRO:HB3	1.53	1.08
46:BY:100:VAL:HG21	46:BY:137:ILE:HD12	1.33	1.08
20:AU:74:ARG:HB3	20:AU:81:PHE:HD2	1.10	1.08
24:BA:962:G:H2'	24:BA:963:U:C6	1.87	1.08
24:BA:988:A:H62	49:B2:13:ILE:HG13	1.13	1.08
24:BA:1520:U:C2'	24:BA:1521:G:H5''	1.82	1.08
24:BA:2058:A:H2'	24:BA:2059:A:H8	1.16	1.08
24:BA:684:G:H2'	24:BA:687:C:N4	1.69	1.08
30:BG:68:PRO:HB3	30:BG:72:ARG:NH2	1.67	1.08
41:BT:50:ARG:NH1	41:BT:50:ARG:HB2	1.69	1.08
2:A1:29:G:C2'	2:A1:30:U:H5''	1.84	1.07
1:AA:373:A:H1'	1:AA:481:G:H1'	1.35	1.07
24:BA:112:U:H3'	24:BA:113:G:C5'	1.84	1.07
24:BA:2658:C:H2'	24:BA:2659:G:C5'	1.82	1.07
24:BA:71:A:H4'	24:BA:72:U:H5''	1.33	1.07
29:BF:157:VAL:HA	29:BF:176:LEU:O	1.54	1.07
29:BF:197:ASP:HA	29:BF:200:GLU:HG3	1.09	1.07
24:BA:1258:C:H5'	29:BF:84:VAL:HG21	1.34	1.07
34:BM:16:ILE:HD11	34:BM:52:VAL:HG22	1.17	1.07
35:BN:59:LYS:HA	35:BN:86:ILE:HD12	1.35	1.07
45:BX:14:LEU:HB2	45:BX:20:TYR:HA	1.32	1.07
20:AU:58:LEU:HB3	20:AU:62:GLU:CB	1.84	1.07
24:BA:1255:U:H5'	24:BA:1256:G:C5'	1.82	1.07
27:BD:6:PHE:O	27:BD:27:THR:HA	1.53	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:BM:4:TYR:HB2	41:BT:64:ARG:HH12	1.19	1.07
43:BV:23:LEU:HD11	51:B4:26:THR:O	1.54	1.07
6:AG:43:HIS:HB3	6:AG:46:LYS:HG3	1.30	1.07
11:AL:85:LEU:HD23	11:AL:96:LEU:HD13	1.31	1.07
14:AO:86:ARG:HH12	14:AO:119:LYS:HG3	1.09	1.07
20:AU:46:GLU:HB3	20:AU:85:LEU:HD13	1.37	1.07
24:BA:1186:G:H3'	24:BA:1187:G:H8	1.12	1.07
24:BA:2619:C:H4'	28:BE:152:LYS:HA	1.11	1.07
29:BF:158:THR:HG21	29:BF:196:LEU:H	0.98	1.07
35:BN:97:ARG:HG3	35:BN:117:LEU:HD21	1.37	1.07
36:BO:63:PRO:HB2	36:BO:64:LYS:HE2	1.34	1.07
37:BP:8:LYS:HE3	37:BP:93:TYR:HB3	1.34	1.07
24:BA:1649:G:H21	38:BQ:107:ASP:HB2	0.96	1.07
41:BT:105:VAL:O	41:BT:109:LEU:HG	1.53	1.07
4:AE:50:GLU:HG3	4:AE:200:ILE:O	1.52	1.07
34:BM:74:ARG:HG3	34:BM:82:LEU:HD22	1.21	1.07
2:A1:32:U:H2'	2:A1:33:U:H6	1.09	1.07
1:AA:291:C:H3'	1:AA:305:G:H22	1.11	1.07
7:AH:78:HIS:HB3	10:AK:107:LEU:HD21	1.31	1.07
8:AI:12:PRO:HB3	8:AI:58:GLY:HA2	1.31	1.07
17:AR:54:ARG:HA	17:AR:57:LEU:HD22	1.35	1.07
1:AA:43:C:H5''	18:AS:12:LYS:HB3	1.09	1.07
24:BA:2296:U:H1'	24:BA:2335:A:H61	1.15	1.07
25:BB:89(A):A:H2'	25:BB:90:C:H5'	1.08	1.07
29:BF:104:LYS:HG3	29:BF:108:LYS:HZ1	1.18	1.07
36:BO:23:PRO:HB2	36:BO:28:GLY:HA2	1.35	1.07
41:BT:65:ILE:HD12	41:BT:96:ALA:HB2	1.35	1.07
49:B2:13:ILE:HG23	49:B2:14:GLY:H	1.14	1.07
53:B6:28:ARG:HA	53:B6:31:LEU:HD12	1.08	1.07
24:BA:1827:C:H2'	24:BA:1828:G:O4'	1.53	1.07
24:BA:2025:C:H2'	24:BA:2026:C:C6	1.90	1.07
24:BA:27:G:H1	24:BA:512:G:H2'	1.11	1.07
24:BA:966:G:H1'	24:BA:2267:A:H62	1.08	1.07
1:AA:1242:C:H5''	23:AX:10:ARG:HH12	1.14	1.07
1:AA:1277:C:H4'	1:AA:1282:C:H1'	1.36	1.07
4:AE:222:ILE:O	4:AE:226:ARG:HB2	1.53	1.07
24:BA:443:A:H5'	29:BF:45:ARG:NH1	1.69	1.07
39:BR:63:THR:O	39:BR:66:ALA:HB3	1.54	1.07
42:BU:43:GLU:H	42:BU:44:LYS:NZ	1.53	1.07
1:AA:558:G:C3'	1:AA:559:A:H5''	1.85	1.07
24:BA:2243:U:H2'	24:BA:2244:U:H6	1.12	1.07
24:BA:729:G:C2'	24:BA:730:C:H4'	1.84	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:89:VAL:HG12	29:BF:90:PHE:H	0.99	1.07
40:BS:52:ILE:HA	40:BS:66:VAL:HG13	1.35	1.07
43:BV:17:VAL:O	43:BV:20:VAL:HG12	1.53	1.07
25:BB:76:G:OP2	46:BY:11:GLU:HA	1.54	1.07
1:AA:559:A:C4'	1:AA:560:U:H5'	1.82	1.07
5:AF:182:ILE:HA	5:AF:204:LEU:HG	1.37	1.07
12:AM:65:LEU:HD12	16:AQ:56:VAL:HG22	1.36	1.07
18:AS:49:LEU:HD11	18:AS:51:VAL:HG22	1.33	1.07
24:BA:2657:A:C2	24:BA:2665:A:H1'	1.90	1.07
24:BA:2832:U:H1'	24:BA:2834:G:H21	1.13	1.07
34:BM:15:LEU:HD21	34:BM:137:LYS:CA	1.84	1.07
37:BP:44:ALA:HA	37:BP:47:ILE:HD12	1.35	1.07
42:BU:17:GLY:HA3	42:BU:19:LYS:NZ	1.70	1.07
5:AF:20:SER:HB2	5:AF:40:ARG:HH22	1.13	1.07
22:AW:62:LEU:HA	22:AW:65:LYS:HG2	1.34	1.07
24:BA:2286:A:H2	52:B5:27:LYS:HB3	1.13	1.07
24:BA:1625:C:H2'	24:BA:1626:G:H4'	1.07	1.07
24:BA:2591:C:H2'	24:BA:2592:G:H8	1.01	1.07
46:BY:10:ARG:HB3	46:BY:36:LYS:HD2	1.36	1.07
1:AA:736:C:H5''	20:AU:72:ARG:HH22	1.11	1.06
52:B5:48:VAL:HG13	52:B5:49:HIS:H	1.20	1.06
24:BA:1029:A:H2'	24:BA:1030:G:O4'	1.54	1.06
24:BA:1203:G:C5	24:BA:1241:A:H8	1.73	1.06
24:BA:2025:C:H5'	34:BM:78:TYR:HH	1.18	1.06
24:BA:685:A:H5''	24:BA:686:G:N2	1.70	1.06
40:BS:64:ARG:HH11	40:BS:64:ARG:CA	1.67	1.06
1:AA:50:A:H5''	1:AA:51:A:H5'	1.16	1.06
22:AW:33:ILE:HD13	22:AW:63:ILE:HA	1.34	1.06
51:B4:51:TYR:HB3	51:B4:55:ARG:HA	1.28	1.06
24:BA:786:C:O2'	24:BA:787:U:H5'	1.54	1.06
36:BO:114:ILE:HD13	36:BO:129:ALA:O	1.54	1.06
46:BY:55:HIS:HB3	46:BY:101:PRO:HG3	1.36	1.06
12:AM:23:ILE:HG23	12:AM:85:LEU:HD23	1.37	1.06
17:AR:6:GLU:HG2	17:AR:7:GLU:H	1.11	1.06
22:AW:12:ALA:H	22:AW:13:LEU:HD12	1.10	1.06
24:BA:1351:C:H2'	24:BA:1352:U:H6	1.12	1.06
24:BA:1993:U:H2'	24:BA:1994:C:H6	1.20	1.06
24:BA:2058:A:H2'	24:BA:2059:A:C8	1.89	1.06
24:BA:2306:C:N3	30:BG:46:ALA:HB2	1.69	1.06
24:BA:259:G:H2'	24:BA:260:G:H8	1.15	1.06
24:BA:861:A:H62	24:BA:916:G:N2	1.50	1.06
24:BA:917:A:H3'	24:BA:917:A:H8	1.18	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:125:ILE:HG21	27:BD:137:PRO:HG3	1.37	1.06
38:BQ:83:ILE:HA	38:BQ:86:ARG:HG3	1.34	1.06
39:BR:20:ARG:HB3	39:BR:20:ARG:NH2	1.70	1.06
1:AA:926:G:H2'	1:AA:1505:G:H21	0.99	1.06
1:AA:781:A:H2'	1:AA:782:A:H5'	1.35	1.06
1:AA:959:A:H3'	1:AA:960:U:H5''	1.37	1.06
6:AG:74:GLN:HA	6:AG:77:ASN:HD22	1.13	1.06
24:BA:1203:G:H2'	24:BA:1203:G:N3	1.61	1.06
29:BF:110:LEU:HA	29:BF:183:VAL:HG22	1.35	1.06
30:BG:107:LEU:O	30:BG:111:LEU:HB2	1.53	1.06
33:BL:10:LEU:HD12	33:BL:12:LEU:HD11	1.32	1.06
33:BL:7:VAL:HG12	33:BL:58:THR:HG21	1.10	1.06
47:BZ:46:LYS:HG3	47:BZ:78:TYR:CE2	1.90	1.06
10:AK:10:LEU:HD11	10:AK:85:ARG:HD3	1.38	1.06
24:BA:1933:G:H21	24:BA:1974:C:H5'	1.17	1.06
24:BA:687:C:H5''	53:B6:4:THR:HB	1.36	1.06
24:BA:1819:A:H5''	27:BD:178:PRO:HG3	1.32	1.06
28:BE:127:ASP:HB2	28:BE:135:HIS:HA	1.35	1.06
37:BP:42:ILE:HD12	37:BP:47:ILE:HG13	1.29	1.06
1:AA:611:A:N6	1:AA:629:G:H1	1.53	1.06
4:AE:209:ARG:HH12	4:AE:213:LEU:HD12	1.19	1.06
50:B3:59:PHE:HA	50:B3:62:ARG:HD2	1.36	1.06
24:BA:1995:U:H5''	24:BA:1996:C:C5'	1.85	1.06
25:BB:89:G:H2'	25:BB:89(A):A:C8	1.90	1.06
29:BF:74:ARG:NE	29:BF:75:HIS:H	1.52	1.06
39:BR:106:ARG:HH12	39:BR:110:LEU:HB2	1.17	1.06
41:BT:82:GLY:HA2	41:BT:117:GLN:HG2	1.37	1.06
42:BU:36:PRO:HA	42:BU:60:GLU:O	1.55	1.06
3:AD:47:U:H2'	3:AD:48:C:H5''	1.32	1.06
24:BA:1668:A:N1	24:BA:1993:U:H1'	1.69	1.06
24:BA:861:A:N6	24:BA:916:G:H21	1.53	1.06
24:BA:977:G:H2'	24:BA:978:G:O4'	1.55	1.06
29:BF:119:ARG:NH2	29:BF:119:ARG:HB2	1.69	1.06
32:BK:4:ILE:HA	32:BK:18:VAL:HG22	1.31	1.06
34:BM:23:LEU:CD1	34:BM:63:THR:H	1.68	1.06
41:BT:83:LEU:O	41:BT:86:ALA:HB3	1.55	1.06
1:AA:1156:G:H1'	1:AA:1179:A:H61	1.17	1.06
1:AA:9:G:H5''	7:AH:126:ARG:HD3	1.29	1.06
5:AF:91:LEU:HD21	5:AF:98:ASN:HA	1.37	1.06
15:AP:108:ARG:HA	15:AP:108:ARG:NH1	1.68	1.06
24:BA:2387:U:H1'	47:BZ:41:ARG:NH2	1.70	1.06
24:BA:364:C:H2'	24:BA:365:C:C5	1.90	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:119:ARG:HH21	29:BF:119:ARG:HB2	1.21	1.06
35:BN:52:VAL:HG22	35:BN:53:LYS:H	1.21	1.06
46:BY:165:VAL:HG12	46:BY:166:SER:H	1.18	1.06
18:AS:44:THR:HG23	18:AS:45:THR:H	1.09	1.06
1:AA:132:C:H5'	1:AA:262:A:H1'	1.38	1.06
4:AE:42:ILE:HD11	4:AE:202:PRO:HB2	1.38	1.06
12:AM:45:ARG:HH11	12:AM:45:ARG:HB3	1.14	1.06
1:AA:551:U:H5'	14:AO:119:LYS:NZ	1.71	1.06
18:AS:20:VAL:HG22	18:AS:35:LYS:HA	1.37	1.06
24:BA:1024:G:H5''	24:BA:1025:G:H5''	1.06	1.06
24:BA:2544:G:H5'	24:BA:2645:G:N7	1.71	1.06
27:BD:134:ARG:HA	27:BD:168:ARG:HH12	0.94	1.06
27:BD:68:LYS:HB3	27:BD:70:TRP:HE1	1.21	1.06
28:BE:173:VAL:HG13	28:BE:184:VAL:HA	1.32	1.06
29:BF:6:VAL:HA	29:BF:20:LEU:HD21	1.34	1.06
32:BK:5:LEU:HB2	32:BK:8:PRO:HD2	1.35	1.06
1:AA:926:G:H2'	1:AA:1505:G:N2	1.71	1.06
12:AM:94:VAL:HG12	12:AM:95:GLU:H	1.13	1.06
20:AU:33:ASP:CG	20:AU:34:TYR:H	1.57	1.06
23:AX:10:ARG:O	23:AX:13:ILE:HG22	1.55	1.06
33:BL:17:ALA:HB1	33:BL:38:VAL:HG13	1.35	1.06
34:BM:23:LEU:HD11	34:BM:63:THR:H	1.14	1.06
47:BZ:37:LEU:CD1	47:BZ:59:LEU:HB3	1.86	1.06
6:AG:107:ARG:HA	6:AG:107:ARG:HH11	1.18	1.05
53:B6:21:ARG:HG2	53:B6:31:LEU:HD21	1.35	1.05
24:BA:1241:A:C5'	24:BA:1241:A:N3	2.18	1.05
24:BA:1995:U:H5''	24:BA:1996:C:H5'	1.31	1.05
24:BA:2491:U:H3'	24:BA:2491:U:H6	0.98	1.05
24:BA:2746:U:O4	24:BA:2756:U:C5	2.09	1.05
35:BN:23:ARG:HB2	35:BN:23:ARG:HH11	1.20	1.05
46:BY:151:HIS:HA	46:BY:171:ILE:HG22	1.38	1.05
4:AE:69:LEU:HA	4:AE:91:PRO:O	1.53	1.05
24:BA:828:U:H2'	24:BA:829:A:C8	1.91	1.05
30:BG:60:LEU:HD21	30:BG:90:LEU:HD11	1.38	1.05
37:BP:26:TYR:N	37:BP:102:VAL:HB	1.71	1.05
15:AP:57:ARG:O	15:AP:61:GLU:HB2	1.54	1.05
1:AA:1242:C:O2'	1:AA:1303:C:H5''	1.55	1.05
1:AA:1236:A:H4'	1:AA:1304:G:H4'	1.38	1.05
1:AA:978:A:N6	1:AA:1361:G:H22	1.54	1.05
3:AC:6:G:H2'	3:AC:7:A:C8	1.91	1.05
11:AL:9:ARG:HD2	11:AL:14:VAL:HG22	1.38	1.05
19:AT:43:LEU:HD22	19:AT:44:ALA:N	1.71	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1144:G:H2'	24:BA:1145:C:C6	1.92	1.05
24:BA:251:A:H2'	24:BA:252:G:O4'	1.55	1.05
31:BH:43:VAL:HG22	31:BH:52:VAL:HA	1.11	1.05
35:BN:122:LEU:HA	40:BS:74:ARG:HH12	1.11	1.05
42:BU:61:VAL:O	42:BU:99:ILE:HB	1.55	1.05
43:BV:25:ARG:HH21	43:BV:74:ALA:N	1.54	1.05
12:AM:8:LEU:HD13	12:AM:94:VAL:HG11	1.36	1.05
24:BA:477:A:H62	24:BA:502:A:N6	1.53	1.05
29:BF:123:LEU:HD12	29:BF:193:VAL:HG22	1.38	1.05
45:BX:47:LYS:HD3	45:BX:49:VAL:HG21	1.35	1.05
20:AU:62:GLU:O	20:AU:66:LEU:HG	1.56	1.05
24:BA:2447:G:O3'	24:BA:2499:C:P	2.14	1.05
24:BA:2507:C:H5''	24:BA:2573:C:H41	1.20	1.05
24:BA:484:C:H2'	24:BA:485:C:C6	1.91	1.05
27:BD:5:LYS:HD3	27:BD:29:PRO:HB3	1.38	1.05
39:BR:106:ARG:NH2	39:BR:110:LEU:HD22	1.72	1.05
39:BR:73:LEU:O	39:BR:76:LYS:HD3	1.57	1.05
35:BN:106:LEU:HB2	40:BS:39:ARG:HH22	1.20	1.05
41:BT:76:TYR:CD2	41:BT:80:ILE:HD11	1.92	1.05
43:BV:25:ARG:NH2	43:BV:74:ALA:H	1.55	1.05
1:AA:1004:A:H8	1:AA:1036:G:O6	1.39	1.05
24:BA:2461:C:H1'	24:BA:2492:U:C5	1.92	1.05
28:BE:91:VAL:HG21	28:BE:93:VAL:HG13	1.38	1.05
29:BF:6:VAL:HA	29:BF:20:LEU:CD2	1.87	1.05
43:BV:16:LYS:HZ2	43:BV:16:LYS:N	1.52	1.05
43:BV:56:ALA:O	43:BV:60:ASN:HB3	1.54	1.05
3:AB:34:G:C2	3:AB:35:A:H1'	1.92	1.05
14:AO:84:LEU:HB3	14:AO:104:VAL:HG11	1.30	1.05
24:BA:2063:C:H3'	24:BA:2064:C:H5''	1.33	1.05
24:BA:308:G:C2	24:BA:309:G:H1'	1.92	1.05
27:BD:63:ARG:NH1	27:BD:85:ASP:HB2	1.70	1.05
42:BU:65:GLY:O	42:BU:66:ARG:HG2	1.56	1.05
25:BB:12:C:C6	47:BZ:74:ARG:HB2	1.91	1.05
1:AA:1464:G:H2'	1:AA:1465:C:C5	1.90	1.05
1:AA:1417:G:H2'	1:AA:1482:G:N2	1.72	1.05
1:AA:389:A:H2'	1:AA:390:C:H5'	1.37	1.05
1:AA:932:C:H3'	9:AJ:3:ARG:HG3	1.31	1.05
10:AK:29:SER:HB2	10:AK:32:LYS:HE2	1.36	1.05
10:AK:91:ARG:HG2	19:AT:34:LYS:HB2	1.39	1.05
49:B2:3:ARG:HH12	49:B2:59:VAL:HB	1.17	1.05
24:BA:242:G:H3'	54:B7:4:MET:CG	1.87	1.05
24:BA:326:G:H2'	24:BA:327:G:H8	1.20	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:BM:26:LEU:HG	34:BM:30:ILE:HD11	1.38	1.05
37:BP:22:LYS:HD2	37:BP:99:PRO:HG3	1.36	1.05
37:BP:42:ILE:HD11	37:BP:46:GLN:HB3	1.38	1.05
39:BR:20:ARG:HB3	39:BR:20:ARG:HH21	0.92	1.05
45:BX:2:ARG:HD2	45:BX:3:VAL:H	1.19	1.05
46:BY:144:LEU:HB3	46:BY:174:VAL:HG11	1.33	1.05
46:BY:145:GLU:N	46:BY:174:VAL:HG21	1.71	1.05
10:AK:10:LEU:O	10:AK:13:ILE:HB	1.56	1.05
24:BA:1182:A:H3'	24:BA:1183:G:H3'	1.39	1.05
44:BW:92:LEU:O	44:BW:95:LEU:HB2	1.56	1.05
1:AA:1286:A:H5'	23:AX:25:LYS:HG2	1.35	1.05
1:AA:765:G:O2'	1:AA:766:A:H5'	1.56	1.05
24:BA:142:G:H4'	44:BW:35:THR:HG21	1.30	1.05
24:BA:1702:G:H2'	24:BA:1703:G:H5''	1.05	1.05
24:BA:578:A:H2'	24:BA:2018:G:H5''	1.38	1.05
24:BA:261:G:H4'	24:BA:608:A:H2	1.10	1.05
25:BB:102:G:H2'	46:BY:73:GLN:HE21	1.20	1.05
46:BY:151:HIS:HB3	46:BY:170:THR:H	1.21	1.05
48:B1:2:ARG:HA	48:B1:5:LEU:HD13	1.39	1.05
1:AA:886:G:O2'	1:AA:887:G:H5'	1.57	1.04
53:B6:41:ARG:HH11	53:B6:41:ARG:HB2	1.17	1.04
24:BA:2277:G:H3'	24:BA:2278:A:H5''	1.39	1.04
38:BQ:32:GLY:HA2	38:BQ:116:LEU:CD2	1.87	1.04
42:BU:6:LYS:HG2	42:BU:12:TYR:H	1.22	1.04
1:AA:1004:A:H3'	1:AA:1025:U:N3	1.71	1.04
4:AE:55:PHE:HA	4:AE:58:ILE:HD12	1.35	1.04
7:AH:89:ILE:HG12	7:AH:131:ILE:HD12	1.36	1.04
24:BA:2349:G:H3'	24:BA:2350:C:H5''	1.39	1.04
24:BA:2447:G:O3'	24:BA:2499:C:OP2	1.75	1.04
24:BA:2841:C:H2'	24:BA:2842:G:H8	1.22	1.04
41:BT:53:ARG:HA	41:BT:56:ASP:OD2	1.56	1.04
32:BK:87:LYS:HE2	32:BK:121:LYS:HG3	1.34	1.04
1:AA:939:G:H5''	9:AJ:102:ARG:HH22	0.91	1.04
54:B7:56:GLU:CD	54:B7:56:GLU:H	1.57	1.04
24:BA:1155:A:H2'	24:BA:1156:A:H5''	1.39	1.04
24:BA:215:G:H4'	24:BA:216:A:O5'	1.53	1.04
44:BW:47:PHE:HE2	44:BW:89:ILE:HA	1.22	1.04
24:BA:2353:G:H4'	47:BZ:32:ARG:HH22	1.17	1.04
1:AA:50:A:N6	1:AA:361:G:H4'	1.70	1.04
1:AA:571:U:C3'	1:AA:572:A:H5''	1.87	1.04
1:AA:64:G:H4'	1:AA:65:U:H5''	1.39	1.04
1:AA:946:A:H2'	1:AA:947:G:C8	1.92	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AN:32:ILE:HG22	13:AN:40:ILE:HD11	1.36	1.04
18:AS:18:ARG:HH12	18:AS:35:LYS:CB	1.70	1.04
24:BA:1204:A:OP2	24:BA:1204:A:O4'	1.73	1.04
24:BA:2681:C:O2'	24:BA:2682:U:H5'	1.56	1.04
24:BA:52:A:H2'	24:BA:53:A:H8	1.21	1.04
38:BQ:20:LEU:HD21	38:BQ:24:GLN:HG3	1.35	1.04
11:AL:55:ALA:HB1	11:AL:58:HIS:CE1	1.90	1.04
12:AM:30:SER:HB2	12:AM:81:THR:HA	1.35	1.04
50:B3:5:ILE:HD11	50:B3:10:VAL:HG23	1.39	1.04
28:BE:8:LYS:HD3	28:BE:9:VAL:HG22	1.36	1.04
4:AE:155:LEU:HB2	4:AE:159:PRO:HG3	1.39	1.04
17:AR:16:ALA:HB1	17:AR:21:ASP:HB3	1.35	1.04
17:AR:62:GLN:HA	17:AR:65:ARG:NH2	1.72	1.04
24:BA:712:G:H2'	24:BA:713:G:C8	1.91	1.04
27:BD:87:ASN:N	27:BD:87:ASN:HD22	1.53	1.04
24:BA:663:G:H5'	36:BO:18:ARG:HB3	1.36	1.04
6:AG:133:VAL:HG11	6:AG:138:TYR:HD1	1.21	1.04
24:BA:1762:A:C8	24:BA:1762:A:H3'	1.92	1.04
24:BA:2431:U:C2'	24:BA:2432:A:H5''	1.87	1.04
24:BA:2576:G:H4'	24:BA:2577:A:H5'	1.07	1.04
46:BY:152:ALA:HA	46:BY:155:LEU:HD13	1.38	1.04
7:AH:84:PHE:CZ	7:AH:133:TYR:HB3	1.93	1.04
11:AL:42:ARG:HB3	11:AL:74:ILE:HD13	1.33	1.04
12:AM:43:ARG:O	12:AM:66:ARG:HB2	1.58	1.04
14:AO:93:LEU:HD12	14:AO:96:VAL:HG21	1.35	1.04
50:B3:46:GLN:HE22	50:B3:69:LYS:HE2	1.17	1.04
24:BA:1557:C:H2'	24:BA:1558:A:H8	1.15	1.04
24:BA:956:G:O6	24:BA:958:U:H1'	1.57	1.04
28:BE:173:VAL:CG1	28:BE:184:VAL:HA	1.86	1.04
34:BM:46:VAL:HG12	34:BM:47:ALA:N	1.68	1.04
39:BR:106:ARG:NH1	39:BR:110:LEU:HB2	1.73	1.04
42:BU:40:LEU:HA	42:BU:54:GLY:HA3	1.39	1.04
42:BU:28:GLU:HB3	42:BU:94:LEU:HD12	1.34	1.04
32:BK:69:LYS:HG2	32:BK:70:LYS:N	1.68	1.04
16:AQ:26:ARG:HD2	16:AQ:47:LEU:HD12	1.40	1.04
48:B1:38:GLN:H	48:B1:41:GLN:NE2	1.55	1.04
24:BA:764:A:H62	24:BA:1776:G:H1'	1.17	1.04
24:BA:785:G:H2'	24:BA:786:C:C6	1.93	1.04
30:BG:163:ALA:HB1	30:BG:169:ALA:HA	1.34	1.04
35:BN:105:GLU:O	35:BN:111:PHE:HZ	1.38	1.04
45:BX:22:GLY:CA	45:BX:73:ARG:HH12	1.69	1.04
1:AA:754:C:H5'	1:AA:755:G:C8	1.93	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:132:ARG:HH11	6:AG:132:ARG:HG2	1.21	1.04
11:AL:19:LEU:HD21	11:AL:59:PHE:HB3	1.07	1.04
14:AO:28:LYS:NZ	14:AO:33:ARG:HH22	1.56	1.04
16:AQ:29:ARG:HB3	16:AQ:29:ARG:HH11	1.22	1.04
1:AA:1320:C:N4	21:AV:36:ARG:HH11	1.54	1.04
53:B6:48:LYS:HG3	53:B6:49:ARG:N	1.65	1.04
55:B8:10:ILE:HD13	55:B8:32:HIS:CD2	1.93	1.04
55:B8:2:LYS:CG	55:B8:35:ARG:HB2	1.87	1.04
24:BA:1024:G:C5'	24:BA:1025:G:H5''	1.86	1.04
24:BA:2637:U:H5''	28:BE:81:ILE:HD11	1.40	1.04
24:BA:783:A:H2'	24:BA:784:A:H4'	1.34	1.04
24:BA:979:G:H3'	24:BA:980:A:H5''	1.39	1.04
26:BC:115:ALA:HB3	26:BC:120:MET:SD	1.97	1.04
1:AA:1253:G:H1	1:AA:1285:A:N6	1.55	1.03
1:AA:1403:C:H1'	1:AA:1500:A:N6	1.72	1.03
10:AK:12:ARG:HH11	10:AK:27:PRO:HD3	1.21	1.03
5:AF:33:LEU:HD11	16:AQ:53:LEU:HA	1.38	1.03
24:BA:630:G:H5''	54:B7:46:ARG:HH12	1.20	1.03
24:BA:1255:U:H5'	24:BA:1256:G:H5''	1.40	1.03
24:BA:1911:U:C2'	24:BA:1912:A:H5'	1.88	1.03
24:BA:388:G:H2'	24:BA:390:A:N7	1.73	1.03
24:BA:785:G:H2'	24:BA:786:C:H6	1.22	1.03
27:BD:77:ALA:HB1	27:BD:95:LEU:HD21	1.38	1.03
28:BE:13:ARG:HG3	28:BE:22:PRO:CD	1.88	1.03
31:BH:103:LEU:HD13	31:BH:115:VAL:HG11	1.39	1.03
38:BQ:46:GLY:O	38:BQ:49:ASP:HB3	1.58	1.03
6:AG:12:CYS:HA	6:AG:19:LEU:HB2	1.37	1.03
16:AQ:45:ARG:CB	16:AQ:45:ARG:HH11	1.71	1.03
24:BA:1841:U:H2'	24:BA:1842:G:H8	1.22	1.03
24:BA:371:A:H5''	24:BA:423:A:N7	1.73	1.03
24:BA:1657:C:H5'	28:BE:133:LYS:HD3	1.36	1.03
31:BH:73:ALA:O	31:BH:76:VAL:HG22	1.58	1.03
1:AA:37:U:H6	1:AA:37:U:H3'	1.21	1.03
3:AC:28:G:H2'	3:AC:29:G:H8	1.21	1.03
5:AF:38:ARG:HB3	5:AF:38:ARG:NH1	1.70	1.03
9:AJ:35:LYS:NZ	9:AJ:38:LEU:HD22	1.73	1.03
24:BA:2832:U:H1'	24:BA:2834:G:N2	1.73	1.03
27:BD:61:LEU:HD22	27:BD:63:ARG:NH2	1.73	1.03
37:BP:34:LEU:HB2	37:BP:67:ARG:HH22	1.23	1.03
37:BP:42:ILE:HG22	37:BP:95:ALA:HB3	1.39	1.03
38:BQ:13:HIS:HB3	38:BQ:16:HIS:CD2	1.94	1.03
43:BV:36:LEU:HD23	43:BV:51:LEU:HD21	1.39	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:30:ASN:HB2	46:BY:90:VAL:HG23	1.40	1.03
1:AA:82:U:H2'	1:AA:85:U:H5	1.22	1.03
1:AA:962:C:H4'	1:AA:1200:C:H41	1.18	1.03
4:AE:178:ARG:NE	4:AE:196:LEU:HD13	1.73	1.03
14:AO:24:VAL:HG23	14:AO:97:ARG:HG2	1.38	1.03
24:BA:1203:G:C6	24:BA:1240:U:N3	2.27	1.03
24:BA:270(P):C:H5'	32:BK:45:LYS:HG2	1.40	1.03
37:BP:6:ARG:HB2	37:BP:44:ALA:HB1	1.36	1.03
40:BS:100:TYR:HA	40:BS:102:ILE:HD13	1.36	1.03
43:BV:19:LEU:HD22	51:B4:25:LEU:HB3	1.41	1.03
45:BX:52:SER:HB3	45:BX:56:PRO:HB3	1.39	1.03
26:BC:32:LEU:HB3	26:BC:220:PRO:HG2	1.35	1.03
1:AA:559:A:H4'	1:AA:560:U:C5'	1.87	1.03
6:AG:141:ARG:HD3	6:AG:142:PRO:HD2	1.40	1.03
10:AK:64:LYS:HG2	10:AK:79:VAL:HG21	1.36	1.03
15:AP:108:ARG:HH11	15:AP:108:ARG:CA	1.71	1.03
24:BA:29:U:H2'	24:BA:30:G:N7	1.72	1.03
27:BD:244:ARG:H	27:BD:245:PRO:HD3	1.16	1.03
27:BD:76:PRO:O	27:BD:98:VAL:HG23	1.57	1.03
35:BN:76:ALA:HA	40:BS:77:PRO:CD	1.88	1.03
1:AA:571:U:H3'	1:AA:572:A:H5''	1.05	1.03
7:AH:52:PRO:O	7:AH:55:VAL:HB	1.59	1.03
15:AP:88:ARG:HG2	15:AP:98:VAL:HG12	1.38	1.03
50:B3:6:HIS:NE2	50:B3:55:ARG:HD3	1.74	1.03
24:BA:1700:A:H2'	24:BA:1701:A:H5'	1.40	1.03
24:BA:2327:A:H2'	24:BA:2328:A:C8	1.93	1.03
24:BA:519:U:H5'	24:BA:519:U:H6	1.23	1.03
25:BB:103:U:H2'	25:BB:104:A:H5'	1.33	1.03
27:BD:23:GLU:HB2	27:BD:205:VAL:HG12	1.35	1.03
34:BM:66:LYS:HA	34:BM:87:LEU:HD11	1.36	1.03
36:BO:65:ARG:NH1	36:BO:67:MET:H	1.56	1.03
1:AA:306:G:H2'	1:AA:307:C:H6	1.19	1.03
4:AE:95:GLN:HE21	4:AE:148:TYR:HB3	1.23	1.03
54:B7:14:VAL:O	54:B7:15:LYS:HE2	1.56	1.03
55:B8:25:VAL:HB	55:B8:34:GLN:HB2	1.40	1.03
42:BU:62:LEU:HD12	42:BU:96:ILE:HB	1.06	1.03
1:AA:355:C:H1'	1:AA:388:G:H2'	1.40	1.03
6:AG:148:VAL:HB	6:AG:181:MET:HE3	1.37	1.03
49:B2:50:VAL:HG13	49:B2:53:LEU:HD12	1.39	1.03
24:BA:1324:G:H3'	24:BA:1325:G:H4'	1.35	1.03
24:BA:1965:C:H3'	24:BA:1966:A:C8	1.93	1.03
24:BA:2582:G:N2	24:BA:2583:G:H1'	1.73	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BN:77:ILE:HG21	40:BS:65:LYS:HE2	1.40	1.03
32:BK:125:GLU:HB3	32:BK:143:SER:HB3	1.07	1.03
32:BK:66:GLU:HA	32:BK:69:LYS:HD3	1.37	1.03
3:AD:19:G:N2	3:AD:57:G:H1'	1.73	1.03
3:AD:75:C:H3'	3:AD:76:A:H4'	1.39	1.03
19:AT:4:LYS:HD2	19:AT:5:VAL:H	1.18	1.03
40:BS:18:ASP:HB3	40:BS:81:PRO:HA	1.35	1.03
41:BT:8:VAL:HG23	41:BT:9:VAL:H	1.20	1.03
1:AA:22:G:H2'	1:AA:23:C:C6	1.93	1.03
1:AA:770:C:H1'	1:AA:900:A:C2	1.91	1.03
10:AK:14:ARG:NH1	10:AK:14:ARG:HB3	1.73	1.03
12:AM:25:GLU:HA	12:AM:28:ARG:HD2	1.41	1.03
21:AV:18:LYS:HE3	21:AV:18:LYS:HA	1.37	1.03
24:BA:104:U:H2'	24:BA:105:C:O4'	1.57	1.03
24:BA:424:G:O2'	24:BA:425:G:H5'	1.59	1.03
28:BE:105:THR:HB	28:BE:166:THR:CB	1.88	1.03
34:BM:14:VAL:HG13	34:BM:138:LEU:HB3	1.40	1.03
40:BS:10:VAL:O	40:BS:13:ARG:HB3	1.58	1.03
24:BA:445:C:H3'	41:BT:3:ARG:HE	1.23	1.03
41:BT:64:ARG:O	41:BT:67:ALA:HB3	1.58	1.03
41:BT:112:ARG:NH1	42:BU:50:PRO:HG3	1.72	1.03
32:BK:81:VAL:HG13	32:BK:144:VAL:HG21	1.38	1.03
24:BA:944:G:H5''	24:BA:945:A:H5''	1.40	1.02
39:BR:23:ARG:NH1	39:BR:42:ASP:HB3	1.72	1.02
5:AF:122:GLU:HA	5:AF:125:GLU:HG2	1.36	1.02
11:AL:40:LEU:HB3	11:AL:42:ARG:HB2	1.38	1.02
14:AO:37:CYS:CA	14:AO:58:VAL:HG22	1.88	1.02
50:B3:5:ILE:HG21	50:B3:60:GLN:OE1	1.59	1.02
27:BD:58:HIS:O	27:BD:59:LYS:HG3	1.58	1.02
34:BM:53:VAL:HA	34:BM:121:LYS:O	1.58	1.02
26:BC:153:ILE:HA	26:BC:156:ILE:HD12	1.40	1.02
24:BA:630:G:H5''	54:B7:46:ARG:NH1	1.74	1.02
24:BA:270(O):U:H5''	24:BA:270(P):C:H5	1.23	1.02
27:BD:76:PRO:HG2	27:BD:98:VAL:HG21	1.39	1.02
36:BO:75:ILE:HG22	36:BO:115:LEU:HD11	1.35	1.02
37:BP:25:ASP:HB2	37:BP:101:ARG:HD2	1.39	1.02
1:AA:38:G:H22	1:AA:397:A:H5''	0.86	1.02
6:AG:50:ARG:HG2	6:AG:51:PRO:HD2	1.34	1.02
20:AU:36:ASN:O	20:AU:40:LEU:HG	1.59	1.02
24:BA:1158:C:H4'	49:B2:32:GLN:HE21	1.23	1.02
24:BA:270(C):C:H2'	24:BA:270(D):C:C6	1.94	1.02
27:BD:39:LYS:HA	27:BD:62:TYR:HB2	1.41	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:103:LYS:HA	29:BF:106:ARG:HG2	1.41	1.02
34:BM:69:GLN:NE2	34:BM:87:LEU:HD22	1.73	1.02
35:BN:64:ARG:NH1	35:BN:67:LYS:H	1.55	1.02
1:AA:1005:A:H5''	1:AA:1006:C:C5	1.95	1.02
14:AO:83:VAL:HG22	14:AO:84:LEU:H	1.24	1.02
50:B3:65:ASP:O	50:B3:69:LYS:HG3	1.59	1.02
24:BA:1702:G:H2'	24:BA:1703:G:C5'	1.88	1.02
24:BA:1772:G:H2'	24:BA:1773:A:H4'	1.36	1.02
24:BA:616:A:H3'	24:BA:616:A:OP2	1.60	1.02
24:BA:196:A:N1	24:BA:828:U:H5''	1.72	1.02
31:BH:118:PRO:HD2	31:BH:121:ILE:HD13	1.42	1.02
43:BV:20:VAL:HG22	43:BV:24:ILE:HD11	1.40	1.02
1:AA:1053:G:H5'	1:AA:1054:C:H5'	1.40	1.02
4:AE:155:LEU:CB	4:AE:159:PRO:HG3	1.89	1.02
4:AE:178:ARG:HD2	4:AE:184:VAL:HG11	1.42	1.02
10:AK:95:VAL:HG22	10:AK:133:LEU:HD21	1.38	1.02
14:AO:88:GLY:H	14:AO:98:TYR:HA	1.20	1.02
24:BA:1718:G:H2'	24:BA:1725:G:H8	1.15	1.02
24:BA:1780:A:H3'	24:BA:1781:C:H5'	1.35	1.02
24:BA:2213:U:H5'	24:BA:2215:G:N7	1.75	1.02
35:BN:3:GLN:HG2	35:BN:6:THR:HB	1.39	1.02
36:BO:107:LYS:HE2	36:BO:110:TYR:HD1	1.20	1.02
37:BP:78:PRO:HB3	37:BP:81:VAL:HG23	1.41	1.02
44:BW:66:LEU:HG	44:BW:69:TYR:O	1.60	1.02
4:AE:163:PHE:HA	4:AE:185:ILE:O	1.59	1.02
5:AF:52:LEU:HA	5:AF:70:VAL:HG22	1.41	1.02
8:AI:52:ILE:HD13	8:AI:87:ARG:NH2	1.73	1.02
1:AA:716:A:H1'	13:AN:118:GLY:HA2	1.37	1.02
13:AN:50:TYR:HB3	13:AN:55:LYS:HG2	1.39	1.02
19:AT:59:ILE:HD11	19:AT:71:PHE:HB3	1.38	1.02
24:BA:1438:U:H2'	24:BA:1439:A:H5'	1.42	1.02
24:BA:2332:U:C4'	24:BA:2336:A:H62	1.73	1.02
35:BN:18:LYS:HB3	35:BN:45:GLU:HG3	1.38	1.02
39:BR:89:ARG:HG3	39:BR:90:GLY:H	1.24	1.02
41:BT:70:ARG:HG2	41:BT:75:ASN:HA	1.35	1.02
46:BY:2:GLU:OE2	46:BY:58:VAL:HB	1.59	1.02
47:BZ:64:ASP:HB3	47:BZ:84:LEU:HD13	1.36	1.02
1:AA:570:G:H1	1:AA:866:C:N4	1.55	1.02
24:BA:1646:C:H3'	24:BA:1647:G:C5'	1.89	1.02
24:BA:586:A:C5'	29:BF:89:VAL:HG21	1.90	1.02
24:BA:745:G:O2'	24:BA:748:G:H1'	1.58	1.02
39:BR:37:ALA:O	39:BR:51:ALA:HB2	1.59	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:A1:36:U:H4'	2:A1:37:U:OP2	1.59	1.02
1:AA:1192:C:H3'	1:AA:1192:C:H6	1.25	1.02
20:AU:21:LYS:HZ1	20:AU:23:LYS:HB3	1.21	1.02
24:BA:1111:A:O2'	24:BA:1112:G:H1'	1.60	1.02
24:BA:248:G:N3	24:BA:2431:U:H5'	1.75	1.02
29:BF:130:ALA:HB3	29:BF:142:TRP:HB2	1.05	1.02
37:BP:115:MET:O	37:BP:118:LEU:HG	1.60	1.02
37:BP:66:ILE:CG2	37:BP:67:ARG:H	1.68	1.02
44:BW:12:VAL:HB	44:BW:27:THR:O	1.60	1.02
1:AA:1005:A:H3'	1:AA:1006:C:H6	1.24	1.02
1:AA:12:U:H2'	1:AA:13:U:H5	1.21	1.02
1:AA:1428:A:H2'	1:AA:1429:C:C6	1.94	1.02
1:AA:263:A:C2'	1:AA:264:U:H5''	1.89	1.02
1:AA:408:A:H2'	1:AA:409:G:H8	1.16	1.02
5:AF:59:ARG:NE	5:AF:64:VAL:HA	1.74	1.02
49:B2:45:GLY:HA2	49:B2:48:GLU:CD	1.80	1.02
52:B5:11:LEU:HD13	54:B7:35:GLN:NE2	1.75	1.02
52:B5:24:GLU:HG2	54:B7:37:SER:HB2	1.37	1.02
24:BA:1252:G:C8	24:BA:1253:A:H1'	1.93	1.02
24:BA:1475:G:H21	24:BA:1476:C:H5''	1.23	1.02
28:BE:111:ARG:N	28:BE:161:GLY:HA3	1.75	1.02
29:BF:192:LEU:HD11	29:BF:194:MET:HG3	1.42	1.02
6:AG:93:PHE:HA	6:AG:96:LEU:HD12	1.39	1.01
8:AI:30:LEU:HA	8:AI:75:LEU:HD11	1.37	1.01
24:BA:1252:G:H22	41:BT:37:GLU:HG3	1.22	1.01
24:BA:2584:U:H2'	24:BA:2585:U:C5	1.95	1.01
24:BA:325:G:H2'	24:BA:326:G:H8	1.24	1.01
27:BD:166:GLN:O	27:BD:174:ILE:HB	1.58	1.01
39:BR:95:HIS:N	39:BR:99:LYS:HB2	1.74	1.01
1:AA:1064:G:H1'	1:AA:1066:C:C4	1.94	1.01
1:AA:91:C:H2'	1:AA:92:G:H8	1.23	1.01
5:AF:126:ARG:HB3	5:AF:128:PHE:CE1	1.95	1.01
1:AA:1205:U:H4'	5:AF:195:VAL:HG13	1.41	1.01
6:AG:19:LEU:H	6:AG:33:MET:HE1	1.23	1.01
10:AK:84:ARG:NH1	10:AK:84:ARG:HB3	1.75	1.01
24:BA:592:G:O2'	54:B7:2:PRO:HA	1.60	1.01
24:BA:627:A:H2'	24:BA:628:G:O4'	1.59	1.01
24:BA:976:C:H5'	24:BA:1156:A:N6	1.75	1.01
29:BF:131:GLY:HA2	29:BF:138:GLU:HG3	1.41	1.01
29:BF:34:TRP:HB3	29:BF:38:ARG:CZ	1.88	1.01
37:BP:41:TRP:HA	37:BP:95:ALA:O	1.59	1.01
24:BA:2122:U:H2'	24:BA:2123:G:H5''	1.40	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AM:49:VAL:HG13	16:AQ:41:ARG:HD2	1.37	1.01
51:B4:34:PRO:HD3	51:B4:40:LYS:HD2	1.42	1.01
24:BA:1288:U:H5''	24:BA:1289:C:OP2	1.57	1.01
29:BF:153:SER:O	29:BF:190:GLU:HB2	1.61	1.01
29:BF:64:ILE:HD13	29:BF:65:TRP:N	1.75	1.01
42:BU:11:GLN:HE22	42:BU:24:LYS:NZ	1.58	1.01
42:BU:20:LEU:HD13	42:BU:68:LYS:HZ3	1.21	1.01
47:BZ:72:ARG:HB3	47:BZ:75:LEU:HD13	1.38	1.01
5:AF:59:ARG:HE	5:AF:64:VAL:HA	1.26	1.01
6:AG:106:TYR:HA	6:AG:111:ALA:HB3	1.43	1.01
20:AU:61:LYS:HD2	20:AU:64:ARG:HH22	1.25	1.01
22:AW:43:LEU:HD12	22:AW:55:ILE:HD11	1.36	1.01
24:BA:627:A:C6	24:BA:637:A:H1'	1.96	1.01
28:BE:109:LYS:HG3	28:BE:191:PRO:HG3	1.36	1.01
28:BE:102:VAL:HG13	28:BE:170:LEU:HG	1.41	1.01
28:BE:50:GLY:C	28:BE:76:ARG:HE	1.62	1.01
32:BK:21:VAL:HB	32:BK:26:ALA:CB	1.89	1.01
43:BV:64:MET:HG2	43:BV:109:GLU:HG3	1.42	1.01
45:BX:12:THR:HG22	45:BX:13:VAL:H	1.21	1.01
46:BY:2:GLU:O	46:BY:60:GLU:HA	1.60	1.01
32:BK:132:PRO:HD2	32:BK:137:PRO:HA	1.40	1.01
24:BA:2115:G:H2'	24:BA:2117:A:N7	1.75	1.01
4:AE:84:GLU:HG2	4:AE:234:PRO:HD2	1.42	1.01
7:AH:48:ALA:HB3	7:AH:53:LEU:HB3	1.40	1.01
19:AT:89:LEU:O	19:AT:92:ARG:HB3	1.60	1.01
24:BA:2210:G:C6	27:BD:150:LYS:HA	1.94	1.01
24:BA:549:G:H2'	24:BA:550:G:H8	1.24	1.01
29:BF:155:LEU:HG	29:BF:189:THR:HG21	1.42	1.01
15:AP:7:VAL:HG13	30:BG:114:ILE:HD13	1.39	1.01
1:AA:279:A:N1	19:AT:98:LEU:HG	1.75	1.01
1:AA:475:G:H2'	1:AA:476:G:C8	1.95	1.01
5:AF:15:THR:HG21	5:AF:181:ASN:HA	1.41	1.01
7:AH:79:GLU:HB3	7:AH:92:LYS:HA	1.39	1.01
51:B4:45:VAL:HB	51:B4:50:GLY:HA2	1.39	1.01
24:BA:1774:C:C6	24:BA:1775:U:H5	1.79	1.01
24:BA:1785:A:H5''	24:BA:1982:C:O2'	1.58	1.01
25:BB:14:U:O2'	25:BB:107:U:H1'	1.59	1.01
32:BK:39:ALA:O	32:BK:43:ASN:HB2	1.58	1.01
34:BM:15:LEU:HG	34:BM:138:LEU:O	1.60	1.01
35:BN:9:GLU:HB2	35:BN:82:ASN:HB3	1.39	1.01
26:BC:87:GLU:HG3	26:BC:94:VAL:HG21	1.36	1.01
1:AA:792:A:H2'	1:AA:794:A:H62	1.18	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:973:G:N2	1:AA:974:A:N6	2.09	1.01
4:AE:54:THR:HG21	4:AE:201:ILE:HD11	1.42	1.01
16:AQ:24:CYS:HB2	16:AQ:40:CYS:N	1.76	1.01
24:BA:1518:C:H3'	24:BA:1519:G:H5''	1.43	1.01
24:BA:2041:U:H2'	24:BA:2042:A:H8	1.23	1.01
24:BA:2765:A:H2'	24:BA:2765:A:N3	1.72	1.01
25:BB:33:G:H2'	25:BB:34:U:C6	1.94	1.01
28:BE:136:ARG:C	28:BE:137:HIS:HD1	1.61	1.01
30:BG:5:VAL:HG12	30:BG:9:ARG:HH22	1.22	1.01
24:BA:2093:G:H4'	32:BK:25:TYR:HA	1.38	1.01
34:BM:96:GLU:O	34:BM:99:LEU:HG	1.61	1.01
39:BR:9:ARG:HB2	39:BR:9:ARG:NH1	1.76	1.01
9:AJ:143:ARG:HH11	9:AJ:144:MET:HB2	1.25	1.01
12:AM:34:VAL:HG12	12:AM:35:SER:H	1.23	1.01
17:AR:7:GLU:O	17:AR:10:LYS:HG2	1.60	1.01
27:BD:202:LYS:HD2	27:BD:202:LYS:H	1.25	1.01
37:BP:63:LYS:HD3	37:BP:64:ILE:H	1.25	1.01
42:BU:40:LEU:HD21	42:BU:55:ALA:HB2	1.43	1.01
1:AA:232:G:H2'	1:AA:233:C:C6	1.94	1.01
6:AG:104:VAL:HG11	6:AG:140:VAL:HG21	1.37	1.01
11:AL:55:ALA:HB3	11:AL:58:HIS:CE1	1.94	1.01
19:AT:62:SER:HB3	19:AT:72:ARG:NE	1.76	1.01
53:B6:34:ARG:HH11	53:B6:34:ARG:HB3	1.24	1.01
24:BA:2345:G:N7	24:BA:2371:G:N2	2.08	1.01
27:BD:136:ILE:HB	27:BD:168:ARG:NH2	1.75	1.01
35:BN:96:THR:HG22	35:BN:97:ARG:H	1.21	1.01
46:BY:179:ASP:O	46:BY:180:VAL:HG23	1.60	1.01
1:AA:1119:C:H2'	1:AA:1120:G:C8	1.96	1.01
6:AG:100:ARG:O	6:AG:104:VAL:HG13	1.61	1.01
19:AT:88:TYR:N	19:AT:91:ARG:HH21	1.56	1.01
49:B2:29:ARG:HB2	49:B2:30:ARG:NH2	1.73	1.01
24:BA:1312:U:H3'	24:BA:1313:U:C5	1.96	1.01
24:BA:1718:G:N2	24:BA:1742:C:N3	2.09	1.01
24:BA:1824:G:O2'	27:BD:246:PRO:HB3	1.59	1.01
24:BA:296:C:H2'	24:BA:297:C:H6	1.19	1.01
35:BN:85:VAL:O	35:BN:93:PRO:HD3	1.61	1.01
36:BO:46:LYS:HB3	36:BO:49:ARG:CZ	1.91	1.01
42:BU:69:LYS:O	42:BU:91:TYR:O	1.79	1.01
4:AE:91:PRO:HG3	4:AE:154:LEU:HB3	1.40	1.00
14:AO:57:LYS:HG2	14:AO:67:THR:HG22	1.41	1.00
36:BO:56:SER:HB3	54:B7:13:ARG:CZ	1.91	1.00
24:BA:112:U:C3'	24:BA:113:G:H5''	1.89	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2091:U:H2'	24:BA:2092:U:H5'	1.41	1.00
24:BA:2243:U:H2'	24:BA:2244:U:C6	1.95	1.00
24:BA:685:A:H5''	24:BA:686:G:H21	1.25	1.00
27:BD:105:ILE:HD12	27:BD:106:ILE:H	1.21	1.00
27:BD:216:GLY:O	27:BD:217:ARG:HB3	1.58	1.00
35:BN:76:ALA:HA	40:BS:77:PRO:HD2	1.39	1.00
24:BA:871:U:H4'	37:BP:69:PHE:CZ	1.96	1.00
24:BA:957:A:OP2	37:BP:77:LYS:HD3	1.59	1.00
41:BT:93:LYS:HG2	42:BU:10:LYS:HZ1	1.22	1.00
43:BV:5:ALA:HB2	43:BV:54:ALA:HB2	1.39	1.00
1:AA:572:A:H4'	1:AA:917:G:H5'	1.40	1.00
1:AA:922:G:H4'	7:AH:20:GLN:HA	1.37	1.00
6:AG:187:ARG:NE	6:AG:188:LEU:HG	1.76	1.00
8:AI:47:ARG:HD3	8:AI:57:GLN:HB3	1.42	1.00
49:B2:26:LEU:HD23	49:B2:28:LEU:HD11	1.40	1.00
24:BA:1939:U:H1'	24:BA:2592:G:C1'	1.91	1.00
24:BA:594:U:H2'	24:BA:595:C:C6	1.96	1.00
24:BA:996:A:H4'	41:BT:93:LYS:HG3	1.43	1.00
28:BE:179:GLU:O	28:BE:181:LEU:HG	1.59	1.00
28:BE:52:LEU:HA	28:BE:74:PRO:HA	1.42	1.00
30:BG:36:LYS:HE2	30:BG:38:VAL:HG13	1.41	1.00
31:BH:145:ALA:O	31:BH:148:ILE:HG22	1.60	1.00
24:BA:2847:U:H3'	40:BS:99:LEU:CD1	1.90	1.00
5:AF:36:ASP:O	5:AF:39:ILE:HB	1.61	1.00
6:AG:18:LYS:HG2	6:AG:33:MET:HB3	1.40	1.00
1:AA:684:A:H4'	13:AN:12:ARG:NH2	1.75	1.00
1:AA:1310:G:H3'	21:AV:2:PRO:HD2	1.39	1.00
50:B3:4:GLY:HA2	50:B3:11:PRO:HB3	1.40	1.00
24:BA:1996:C:H6	24:BA:1996:C:H5''	1.20	1.00
29:BF:160:ASN:O	29:BF:163:VAL:HB	1.61	1.00
30:BG:60:LEU:HB3	30:BG:66:GLN:O	1.61	1.00
34:BM:43:THR:CB	34:BM:44:PRO:HD2	1.88	1.00
1:AA:952:U:H5'	1:AA:972:C:H41	1.23	1.00
4:AE:55:PHE:HA	4:AE:58:ILE:CD1	1.91	1.00
11:AL:48:GLU:HB3	11:AL:78:LYS:HZ3	1.24	1.00
13:AN:111:ASP:OD2	13:AN:113:PRO:HD3	1.61	1.00
15:AP:104:ARG:HG2	15:AP:105:THR:HG23	1.38	1.00
15:AP:78:ILE:HA	15:AP:81:LEU:HD13	1.41	1.00
17:AR:62:GLN:NE2	17:AR:66:LEU:HD21	1.76	1.00
24:BA:988:A:N6	49:B2:13:ILE:HG13	1.74	1.00
49:B2:9:VAL:HG22	49:B2:53:LEU:C	1.81	1.00
52:B5:16:CYS:CB	52:B5:49:HIS:HA	1.90	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:B8:2:LYS:HG2	55:B8:35:ARG:CB	1.91	1.00
24:BA:1677:A:H2'	24:BA:1678:G:H8	1.21	1.00
27:BD:54:ARG:HA	27:BD:219:PRO:HG2	1.43	1.00
27:BD:246:PRO:HG3	27:BD:252:TRP:CE3	1.97	1.00
28:BE:104:VAL:HG13	28:BE:197:ILE:O	1.59	1.00
30:BG:49:ASP:HA	30:BG:53:LEU:HD22	1.40	1.00
1:AA:1288:A:H2'	1:AA:1289:A:H8	1.27	1.00
1:AA:291:C:H3'	1:AA:305:G:N2	1.76	1.00
7:AH:76:ILE:HD13	7:AH:142:LEU:HB2	1.41	1.00
24:BA:869:G:C2'	24:BA:870:A:H5''	1.90	1.00
27:BD:148:GLU:HB2	27:BD:154:LYS:HZ1	1.24	1.00
37:BP:134:ARG:HE	37:BP:137:TYR:HA	1.25	1.00
9:AJ:69:VAL:HG21	9:AJ:104:LEU:HD21	1.43	1.00
16:AQ:54:PRO:O	16:AQ:56:VAL:HG23	1.60	1.00
19:AT:62:SER:OG	19:AT:72:ARG:HG2	1.61	1.00
24:BA:1275:A:C2	38:BQ:16:HIS:HA	1.96	1.00
24:BA:2418:A:H2'	24:BA:2419:U:O4'	1.61	1.00
3:AB:52:G:H4'	24:BA:2471:C:OP1	1.60	1.00
24:BA:602:G:O3'	24:BA:603:A:H4'	1.57	1.00
29:BF:89:VAL:HG12	29:BF:90:PHE:N	1.73	1.00
37:BP:27:VAL:HG22	37:BP:28:ALA:H	1.21	1.00
3:AD:8:U:H3	3:AD:14:A:N6	1.59	1.00
24:BA:183:C:H1'	24:BA:433:C:H1'	1.40	1.00
52:B5:16:CYS:SG	52:B5:19:ARG:CZ	2.49	1.00
24:BA:2286:A:C2	52:B5:27:LYS:HB3	1.96	1.00
24:BA:2780:G:H22	34:BM:97:ARG:NH1	1.59	1.00
24:BA:297:C:H5''	45:BX:83:THR:OG1	1.62	1.00
25:BB:37:C:H2'	25:BB:38:C:O4'	1.61	1.00
24:BA:781:A:H1'	27:BD:222:ARG:NH1	1.74	1.00
41:BT:55:ARG:HH11	41:BT:55:ARG:HG2	1.23	1.00
46:BY:56:VAL:HG21	46:BY:135:GLU:HA	1.41	1.00
6:AG:24:GLU:O	6:AG:27:TYR:HB3	1.62	1.00
17:AR:60:VAL:O	17:AR:63:ARG:HG3	1.60	1.00
52:B5:14:THR:HB	52:B5:51:GLU:HA	1.43	1.00
24:BA:1203:G:O6	24:BA:1240:U:O2	1.78	1.00
24:BA:1799:G:H1	27:BD:157:ARG:HH12	1.02	1.00
24:BA:1802:A:H61	24:BA:1822:G:H1'	1.24	1.00
24:BA:325:G:H2'	24:BA:326:G:C8	1.97	1.00
27:BD:177:LEU:HB2	27:BD:178:PRO:HD2	1.40	1.00
31:BH:17:VAL:HG21	31:BH:45:VAL:HG11	1.44	1.00
38:BQ:38:VAL:HB	38:BQ:39:PRO:HD3	1.41	1.00
42:BU:5:VAL:HG11	42:BU:37:VAL:HG13	1.44	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:127:LYS:HD2	46:BY:163:LEU:HA	1.39	1.00
46:BY:152:ALA:HB3	46:BY:168:GLU:HA	1.43	1.00
52:B5:16:CYS:HB2	52:B5:49:HIS:CA	1.90	1.00
24:BA:2023:G:H2'	24:BA:2024:G:C8	1.97	1.00
24:BA:2075:U:H3	24:BA:2238:G:H1	1.01	1.00
24:BA:2254:C:C2'	24:BA:2255:G:H5'	1.90	1.00
24:BA:265:A:H3'	24:BA:265:A:C8	1.96	1.00
24:BA:270(M):U:C4'	24:BA:270(N):G:H4'	1.91	1.00
24:BA:2876:G:H4'	40:BS:1:MET:H2	1.27	1.00
24:BA:2619:C:C4'	28:BE:152:LYS:HA	1.91	1.00
24:BA:636:G:N2	36:BO:75:ILE:HD12	1.77	1.00
41:BT:13:LYS:HD2	41:BT:13:LYS:H	1.21	1.00
42:BU:39:LEU:HG	42:BU:58:VAL:O	1.62	1.00
43:BV:82:LEU:HD12	43:BV:84:ARG:HG3	1.43	1.00
4:AE:187:LEU:HA	4:AE:201:ILE:O	1.59	1.00
5:AF:30:ARG:HG2	5:AF:31:HIS:H	1.27	1.00
5:AF:33:LEU:HD11	16:AQ:54:PRO:HD2	1.38	1.00
6:AG:20:TYR:HD1	6:AG:21:LEU:N	1.58	1.00
7:AH:78:HIS:ND1	10:AK:107:LEU:HD11	1.76	1.00
9:AJ:140:ASP:HA	9:AJ:143:ARG:CZ	1.91	1.00
10:AK:68:ARG:HD3	10:AK:69:ARG:H	1.26	1.00
15:AP:7:VAL:HG12	30:BG:140:ILE:HG21	1.44	1.00
19:AT:18:THR:HG22	19:AT:43:LEU:HD21	1.42	1.00
48:B1:12:SER:HB3	48:B1:13:PRO:HD2	1.41	1.00
50:B3:65:ASP:HA	50:B3:68:ARG:NH2	1.76	1.00
43:BV:39:THR:OG1	51:B4:28:PRO:HG3	1.61	1.00
24:BA:1466:G:C2'	24:BA:1547:C:H41	1.73	1.00
24:BA:1913:A:H1'	24:BA:1918:A:H61	1.25	1.00
24:BA:914:C:H3'	24:BA:914:C:H6	1.25	1.00
27:BD:133:LEU:HB3	27:BD:136:ILE:HD11	1.38	1.00
24:BA:1819:A:H3'	27:BD:178:PRO:HB2	1.43	1.00
28:BE:11:MET:O	28:BE:22:PRO:HD2	1.62	1.00
33:BL:9:LYS:HA	33:BL:56:GLU:HG2	1.43	1.00
42:BU:6:LYS:HD3	42:BU:10:LYS:HG2	1.39	1.00
44:BW:73:ARG:HB3	44:BW:73:ARG:HH11	1.26	1.00
24:BA:2124:G:C4'	26:BC:42:GLU:HG3	1.92	1.00
10:AK:80:ILE:HD12	10:AK:80:ILE:H	1.25	0.99
15:AP:48:LEU:CD2	15:AP:52:GLU:HB2	1.91	0.99
52:B5:12:GLU:HG2	52:B5:13:CYS:H	1.22	0.99
24:BA:2344:U:H5''	52:B5:38:LYS:CG	1.91	0.99
53:B6:28:ARG:O	53:B6:31:LEU:HB2	1.60	0.99
53:B6:48:LYS:CG	53:B6:49:ARG:H	1.71	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1995:U:C5'	24:BA:1996:C:H5'	1.91	0.99
24:BA:2239:G:H5'	24:BA:2240:C:OP2	1.60	0.99
24:BA:759:G:H2'	24:BA:760:G:H8	1.27	0.99
24:BA:853:G:H2'	24:BA:854:G:H8	1.24	0.99
27:BD:138:VAL:HA	27:BD:165:ILE:HG21	1.44	0.99
24:BA:1257:C:O2'	29:BF:84:VAL:HG23	1.61	0.99
24:BA:1224:G:H2'	42:BU:87:HIS:NE2	1.78	0.99
46:BY:4:ARG:HG2	46:BY:5:LEU:N	1.74	0.99
1:AA:1137:C:H4'	1:AA:1138:G:C2	1.98	0.99
1:AA:1405:G:H21	1:AA:1517:G:N2	1.57	0.99
1:AA:112:G:H5'	1:AA:389:A:H4'	1.41	0.99
1:AA:791:G:H22	1:AA:1498:U:P	1.84	0.99
49:B2:45:GLY:O	49:B2:48:GLU:HG2	1.61	0.99
24:BA:1917:U:H2'	24:BA:1918:A:O4'	1.61	0.99
41:BT:107:ALA:O	41:BT:110:VAL:HB	1.60	0.99
32:BK:123:LEU:HD11	32:BK:145:VAL:HA	1.42	0.99
5:AF:69:HIS:ND1	5:AF:104:GLN:HB2	1.77	0.99
8:AI:14:LEU:CD1	8:AI:15:ASP:H	1.75	0.99
15:AP:82:MET:HE1	15:AP:93:ARG:HA	1.40	0.99
1:AA:191:G:H1'	22:AW:105:SER:HA	1.43	0.99
50:B3:68:ARG:N	50:B3:68:ARG:HD3	1.77	0.99
24:BA:270:A:N1	24:BA:370:G:H1'	1.75	0.99
28:BE:8:LYS:NZ	28:BE:9:VAL:HG13	1.76	0.99
31:BH:110:SER:O	31:BH:112:PRO:HD2	1.61	0.99
40:BS:96:ARG:HD3	40:BS:117:ASP:OD2	1.63	0.99
40:BS:58:ASN:HD22	40:BS:58:ASN:N	1.55	0.99
46:BY:94:GLU:H	46:BY:95:PRO:CD	1.73	0.99
1:AA:1327:C:H5''	23:AX:20:LYS:HD3	1.41	0.99
1:AA:174:C:H2'	1:AA:175:C:H6	1.27	0.99
4:AE:178:ARG:HH21	4:AE:196:LEU:HB2	1.22	0.99
7:AH:12:LEU:HB3	7:AH:31:LEU:HB3	1.44	0.99
20:AU:21:LYS:NZ	20:AU:23:LYS:HB3	1.77	0.99
24:BA:2348:U:H3'	54:B7:42:ARG:NH2	1.76	0.99
24:BA:1498:C:C6	24:BA:1576:U:H4'	1.97	0.99
24:BA:948:G:H1'	24:BA:984:A:C2	1.97	0.99
28:BE:30:PRO:HA	28:BE:49:LEU:O	1.59	0.99
36:BO:131:SER:O	36:BO:134:ALA:HB3	1.62	0.99
41:BT:17:ILE:CA	41:BT:20:LEU:HG	1.93	0.99
42:BU:14:VAL:HG12	42:BU:15:GLU:H	1.27	0.99
1:AA:1234:C:H5'	1:AA:1364:U:O2'	1.63	0.99
4:AE:95:GLN:HG3	4:AE:148:TYR:HB3	1.39	0.99
12:AM:30:SER:HB2	12:AM:81:THR:CA	1.91	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1363:C:N4	50:B3:2:LYS:HE2	1.77	0.99
24:BA:1913:A:C2	24:BA:1917:U:C5	2.51	0.99
24:BA:1918:A:H8	24:BA:1918:A:OP2	1.44	0.99
24:BA:2311:A:H3'	24:BA:2312:U:C5	1.96	0.99
24:BA:663:G:O2'	24:BA:940:G:H4'	1.61	0.99
27:BD:120:GLY:O	27:BD:131:LEU:HD11	1.60	0.99
36:BO:45:LEU:HD13	54:B7:59:LYS:CE	1.91	0.99
24:BA:1649:G:N2	38:BQ:107:ASP:HB2	1.77	0.99
39:BR:9:ARG:HH11	39:BR:9:ARG:CB	1.75	0.99
41:BT:27:LEU:O	41:BT:31:SER:HB3	1.63	0.99
26:BC:62:VAL:HB	26:BC:195:ALA:CB	1.92	0.99
1:AA:1256:A:O3'	1:AA:1257:U:H4'	1.62	0.99
1:AA:902:G:O2'	1:AA:903:G:H5'	1.62	0.99
4:AE:222:ILE:HB	4:AE:226:ARG:NH2	1.77	0.99
10:AK:29:SER:HB2	10:AK:32:LYS:CE	1.91	0.99
48:B1:60:ASN:O	48:B1:64:ARG:HB2	1.63	0.99
24:BA:1557:C:H2'	24:BA:1558:A:C8	1.97	0.99
24:BA:1570:A:N6	24:BA:1571:A:H62	1.60	0.99
28:BE:36:ARG:HD2	28:BE:41:LYS:HZ1	1.26	0.99
28:BE:49:LEU:HG	28:BE:74:PRO:HG2	1.43	0.99
29:BF:19:GLU:O	29:BF:20:LEU:CD2	2.10	0.99
29:BF:31:HIS:HB2	36:BO:14:LYS:HZ2	1.27	0.99
35:BN:7:TYR:HD1	35:BN:7:TYR:N	1.56	0.99
37:BP:74:TYR:OH	37:BP:94:VAL:HG22	1.62	0.99
43:BV:29:LEU:O	43:BV:33:ARG:HB2	1.61	0.99
1:AA:164:U:H2'	1:AA:165:C:C5	1.97	0.99
1:AA:1197:G:OP1	1:AA:1197:G:H3'	1.62	0.99
1:AA:983:A:H1'	1:AA:1201:A:N7	1.77	0.99
4:AE:161:ALA:HA	4:AE:183:PRO:HB2	1.42	0.99
9:AJ:69:VAL:HG22	9:AJ:135:VAL:HG22	1.39	0.99
49:B2:4:LEU:O	49:B2:37:LEU:HB3	1.60	0.99
24:BA:2019:A:H3'	24:BA:2020:A:H5''	1.43	0.99
24:BA:355:G:H2'	24:BA:356:G:C8	1.97	0.99
27:BD:91:ARG:HH12	27:BD:198:ASN:HB2	1.23	0.99
35:BN:122:LEU:H	40:BS:70:VAL:HG12	0.85	0.99
1:AA:723:U:H5	2:A1:30:U:HO2'	1.01	0.99
3:AB:74:C:C4	24:BA:2556:C:O4'	2.16	0.99
24:BA:1178:C:H2'	24:BA:1179:C:C6	1.98	0.99
24:BA:1625:C:C2'	24:BA:1626:G:H4'	1.91	0.99
24:BA:2206:C:H2'	24:BA:2207:C:H6	1.27	0.99
24:BA:2319:G:H4'	24:BA:2320:A:OP1	1.62	0.99
24:BA:2701:C:H3'	24:BA:2702:U:C5'	1.92	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1803:A:H4'	27:BD:257:LEU:HD13	1.41	0.99
35:BN:117:LEU:O	35:BN:119:PRO:HD3	1.61	0.99
35:BN:7:TYR:HB3	35:BN:18:LYS:NZ	1.76	0.99
40:BS:17:THR:HB	40:BS:20:PRO:HD3	1.41	0.99
41:BT:93:LYS:NZ	41:BT:93:LYS:HA	1.76	0.99
49:B2:12:PRO:HA	49:B2:15:TYR:CE2	1.98	0.99
54:B7:8:LYS:H	54:B7:8:LYS:HE2	1.28	0.99
24:BA:1151:G:H5''	41:BT:81:HIS:NE2	1.76	0.99
24:BA:1326:U:H2'	24:BA:1327:C:H5'	1.44	0.99
24:BA:270(O):U:H5''	24:BA:270(P):C:C5	1.97	0.99
24:BA:289:A:H2'	24:BA:351:G:H1	1.23	0.99
27:BD:7:LYS:CG	27:BD:25:THR:HG22	1.93	0.99
30:BG:54:GLU:O	30:BG:57:ALA:HB3	1.60	0.99
33:BL:37:PHE:HB3	33:BL:57:ILE:HD12	1.45	0.99
35:BN:64:ARG:HH21	35:BN:64:ARG:HG3	1.28	0.99
24:BA:2135:A:H4'	24:BA:2136:C:C5	1.98	0.99
26:BC:103:ILE:HB	26:BC:127:LEU:HD21	1.44	0.99
1:AA:37:U:H3'	1:AA:37:U:C6	1.96	0.99
1:AA:8:A:H1'	7:AH:102:ALA:O	1.61	0.99
12:AM:18:ALA:HB3	12:AM:91:PRO:HB3	1.41	0.99
1:AA:37:U:OP1	14:AO:123:LYS:HB3	1.63	0.99
48:B1:20:VAL:HG23	48:B1:52:ILE:HG23	1.43	0.99
53:B6:30:VAL:HG13	53:B6:33:ARG:CZ	1.90	0.99
24:BA:1342:A:C2'	24:BA:1345:C:H41	1.73	0.99
24:BA:1842:G:H2'	24:BA:1843:C:H6	1.28	0.99
24:BA:270(M):U:H4'	24:BA:270(N):G:H4'	1.01	0.99
24:BA:479:A:H1'	24:BA:480:A:N7	1.76	0.99
29:BF:183:VAL:HA	29:BF:186:ILE:HD12	1.43	0.99
37:BP:121:ALA:O	37:BP:125:LEU:HG	1.62	0.99
24:BA:2120:G:N2	26:BC:167:LYS:NZ	2.11	0.99
1:AA:781:A:H2'	1:AA:782:A:C5'	1.92	0.98
24:BA:1450:C:O2'	24:BA:1451:C:H4'	1.63	0.98
24:BA:241:A:H1'	24:BA:243:U:H1'	1.41	0.98
24:BA:747:U:H2'	24:BA:2613:U:O4	1.61	0.98
28:BE:116:VAL:CG2	28:BE:138:PRO:HA	1.93	0.98
30:BG:163:ALA:HB2	30:BG:172:LEU:HD23	1.43	0.98
36:BO:72:PRO:HB2	36:BO:111:ARG:HB3	1.41	0.98
45:BX:22:GLY:HA3	45:BX:73:ARG:HH12	0.85	0.98
1:AA:1413:A:N6	1:AA:1488:G:C6	2.31	0.98
6:AG:60:GLU:OE2	6:AG:199:ASN:HB3	1.61	0.98
38:BQ:10:LEU:HD13	38:BQ:21:TYR:OH	1.64	0.98
38:BQ:16:HIS:O	38:BQ:19:ALA:HB3	1.64	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1077:G:H22	1:AA:1079:G:H3'	1.21	0.98
1:AA:186(B):C:H4'	22:AW:89:ARG:HH12	1.27	0.98
1:AA:475:G:H2'	1:AA:476:G:H8	1.26	0.98
1:AA:888:G:H21	1:AA:909:A:N6	1.60	0.98
10:AK:100:ILE:HD12	10:AK:100:ILE:H	1.27	0.98
10:AK:129:VAL:HG22	10:AK:130:GLY:H	1.26	0.98
15:AP:74:VAL:HG12	15:AP:78:ILE:HD11	1.45	0.98
21:AV:69:HIS:HB2	21:AV:74:PHE:CZ	1.96	0.98
54:B7:26:LYS:HA	54:B7:47:LYS:HG2	1.45	0.98
24:BA:1186:G:H8	24:BA:1187:G:C8	1.80	0.98
24:BA:1359:A:H62	24:BA:1371:G:H21	1.02	0.98
35:BN:24:VAL:HA	35:BN:39:ILE:HG22	1.45	0.98
39:BR:71:ARG:O	39:BR:74:ALA:HB3	1.62	0.98
43:BV:6:ILE:HG12	43:BV:104:THR:HA	1.44	0.98
32:BK:125:GLU:HB3	32:BK:143:SER:CB	1.93	0.98
1:AA:1206:G:H5'	5:AF:194:GLY:HA2	1.45	0.98
1:AA:1241:G:H2'	1:AA:1242:C:C6	1.98	0.98
19:AT:82:MET:O	19:AT:85:VAL:HB	1.61	0.98
24:BA:1022:G:OP1	24:BA:1022:G:H4'	1.62	0.98
24:BA:150:C:H42	24:BA:176:G:H1	1.01	0.98
24:BA:1697:G:C5'	24:BA:1698:A:H5'	1.93	0.98
24:BA:27:G:N1	24:BA:512:G:H2'	1.78	0.98
27:BD:133:LEU:HD11	27:BD:185:VAL:HG12	1.43	0.98
27:BD:61:LEU:HB2	27:BD:86:PRO:HG2	1.43	0.98
31:BH:84:SER:HA	31:BH:134:SER:HA	1.42	0.98
40:BS:53:ARG:HA	40:BS:53:ARG:NE	1.73	0.98
41:BT:44:ASN:ND2	42:BU:78:LYS:HG2	1.76	0.98
44:BW:36:LYS:HD2	44:BW:54:VAL:HG12	1.42	0.98
46:BY:157:LEU:HD13	46:BY:161:VAL:HG13	1.44	0.98
14:AO:60:LEU:HD13	14:AO:60:LEU:H	1.25	0.98
24:BA:2023:G:H2'	24:BA:2024:G:H8	1.21	0.98
24:BA:279:C:N4	24:BA:359:A:N3	2.11	0.98
24:BA:839:U:H2'	24:BA:840:C:C6	1.96	0.98
30:BG:77:ILE:HA	30:BG:83:ARG:HE	1.26	0.98
24:BA:623:G:H3'	36:BO:105:LEU:HD22	1.45	0.98
37:BP:12:GLN:HE22	37:BP:13:GLN:NE2	1.59	0.98
38:BQ:41:ALA:HB1	38:BQ:114:VAL:HG21	1.43	0.98
46:BY:158:PRO:HB2	46:BY:159:PRO:HD2	1.45	0.98
32:BK:54:GLN:NE2	32:BK:58:LEU:HG	1.76	0.98
1:AA:1323:G:H2'	1:AA:1324:A:H8	1.27	0.98
1:AA:1339:A:H2'	1:AA:1340:A:H5'	1.44	0.98
1:AA:169:C:H2'	1:AA:170:U:C6	1.98	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:384:G:H2'	1:AA:385:C:C6	1.98	0.98
52:B5:26:ASN:O	52:B5:27:LYS:HB2	1.63	0.98
55:B8:2:LYS:HG2	55:B8:35:ARG:HB2	1.00	0.98
25:BB:48:A:H2'	25:BB:49:C:C6	1.98	0.98
28:BE:117:MET:HG2	28:BE:136:ARG:HE	1.25	0.98
42:BU:62:LEU:HD22	42:BU:99:ILE:H	1.25	0.98
2:A1:30:U:H6	2:A1:30:U:H5'	1.26	0.98
1:AA:1066:C:H3'	1:AA:1067:A:H8	1.27	0.98
10:AK:38:ILE:HG13	10:AK:118:VAL:HG11	1.43	0.98
15:AP:56:LEU:O	15:AP:59:TYR:HB3	1.64	0.98
52:B5:31:PRO:HB3	52:B5:34:LEU:HD12	1.44	0.98
53:B6:48:LYS:HG3	53:B6:49:ARG:H	0.83	0.98
24:BA:185:U:H2'	24:BA:186:G:C8	1.99	0.98
24:BA:477:A:N6	24:BA:502:A:H61	1.58	0.98
25:BB:71:C:H2'	25:BB:72:G:C5'	1.93	0.98
24:BA:1244:G:H5'	36:BO:9:ASN:HB3	1.44	0.98
24:BA:2018:G:H1'	41:BT:34:LYS:HZ2	1.28	0.98
43:BV:16:LYS:H	43:BV:16:LYS:HD3	1.24	0.98
44:BW:73:ARG:HB3	44:BW:73:ARG:NH1	1.79	0.98
1:AA:22:G:H2'	1:AA:23:C:H6	1.22	0.98
6:AG:53:ASP:O	6:AG:56:VAL:HB	1.60	0.98
1:AA:1349:A:OP2	11:AL:118:LYS:HD2	1.62	0.98
15:AP:108:ARG:HH11	15:AP:108:ARG:HA	0.82	0.98
50:B3:5:ILE:HG23	50:B3:57:GLU:HB2	1.42	0.98
24:BA:271(B):G:H4'	24:BA:271(C):U:OP2	1.64	0.98
24:BA:559:G:H5'	24:BA:559:G:H8	1.28	0.98
27:BD:183:ARG:HG2	27:BD:268:ARG:CB	1.93	0.98
35:BN:68:GLU:HA	35:BN:104:ARG:NH1	1.79	0.98
1:AA:259:G:H2'	1:AA:260:G:C8	1.99	0.98
4:AE:111:ARG:HH11	4:AE:111:ARG:HA	1.25	0.98
4:AE:47:THR:O	4:AE:51:LEU:HG	1.64	0.98
10:AK:26:VAL:HG22	10:AK:27:PRO:HD2	1.42	0.98
11:AL:47:LEU:HD12	11:AL:51:ARG:HH22	1.24	0.98
24:BA:1300:U:H2'	24:BA:1626:G:N2	1.79	0.98
24:BA:1966:A:H1'	24:BA:2593:U:H5'	1.45	0.98
27:BD:46:GLN:OE1	27:BD:51:VAL:HG23	1.61	0.98
28:BE:108:SER:OG	28:BE:164:ARG:HA	1.64	0.98
30:BG:47:LYS:HD3	30:BG:72:ARG:C	1.84	0.98
35:BN:11:ALA:CB	35:BN:97:ARG:HH12	1.76	0.98
46:BY:57:ILE:HG23	46:BY:69:THR:O	1.62	0.98
1:AA:50:A:C5'	1:AA:51:A:H5'	1.93	0.98
4:AE:217:ARG:HA	4:AE:220:ASP:OD2	1.64	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:11:LEU:O	6:AG:19:LEU:HD12	1.64	0.98
9:AJ:5:ARG:HD2	9:AJ:7:ALA:H	1.29	0.98
51:B4:39:MET:HE3	51:B4:41:PRO:HD3	1.40	0.98
24:BA:1050:A:C2	24:BA:2751:G:H5'	1.99	0.98
24:BA:603:A:N6	24:BA:624:C:N4	2.11	0.98
25:BB:24:G:O6	25:BB:56:G:H2'	1.64	0.98
28:BE:49:LEU:HD22	28:BE:76:ARG:C	1.85	0.98
35:BN:24:VAL:HG21	35:BN:26:LYS:HE3	1.44	0.98
42:BU:20:LEU:HB2	42:BU:95:LEU:HD22	1.46	0.98
32:BK:77:LEU:HD12	32:BK:142:VAL:HG13	1.41	0.98
32:BK:96:ASP:HA	32:BK:99:GLU:OE1	1.64	0.98
24:BA:2103:C:H2'	24:BA:2104:G:H8	1.26	0.98
1:AA:1080:A:H5'	7:AH:14:ARG:HH21	1.24	0.97
7:AH:152:ARG:CZ	10:AK:43:GLY:HA3	1.93	0.97
7:AH:51:VAL:HB	7:AH:52:PRO:HD3	1.45	0.97
18:AS:4:ILE:HG23	18:AS:21:VAL:CG1	1.93	0.97
18:AS:60:LEU:HA	18:AS:64:ALA:HB3	1.46	0.97
24:BA:2623:G:N2	51:B4:22:HIS:HE1	1.60	0.97
24:BA:1241:A:H3'	24:BA:1241:A:N3	1.79	0.97
24:BA:1697:G:H5''	24:BA:1698:A:H5'	1.46	0.97
24:BA:411:G:H21	24:BA:2408:U:H3	1.12	0.97
24:BA:451:C:H41	24:BA:453:C:H3'	1.26	0.97
30:BG:53:LEU:HD23	30:BG:71:THR:H	1.26	0.97
33:BL:76:TYR:O	33:BL:80:LYS:HD3	1.61	0.97
36:BO:46:LYS:H	36:BO:46:LYS:HE3	1.21	0.97
24:BA:2392:A:H1'	36:BO:55:ARG:HH12	0.84	0.97
24:BA:2126:A:C5	24:BA:2163:C:H4'	1.99	0.97
1:AA:1477:C:H2'	1:AA:1478:C:C6	1.97	0.97
1:AA:495:A:H1'	1:AA:496:A:C8	1.98	0.97
1:AA:528:C:N4	14:AO:49:ASN:HD21	1.62	0.97
6:AG:20:TYR:HA	6:AG:26:CYS:O	1.61	0.97
49:B2:4:LEU:HD21	49:B2:56:VAL:HG23	1.42	0.97
24:BA:2459:A:N3	24:BA:2460:U:C1'	2.26	0.97
24:BA:575:A:O2'	24:BA:576:U:H5'	1.63	0.97
24:BA:627:A:H61	24:BA:638:G:H1'	1.27	0.97
24:BA:653:A:H62	24:BA:655:A:H1'	1.28	0.97
24:BA:674:G:H4'	29:BF:74:ARG:CZ	1.94	0.97
24:BA:2392:A:C1'	36:BO:55:ARG:HH12	1.77	0.97
43:BV:48:ALA:HA	43:BV:51:LEU:HD22	1.46	0.97
25:BB:77:U:O3'	46:BY:78:LYS:HE3	1.62	0.97
1:AA:1314:C:H3'	21:AV:6:LYS:HD3	1.47	0.97
1:AA:129(A):G:H2'	1:AA:189:U:C6	1.98	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:166:ASP:O	4:AE:169:LYS:HB3	1.64	0.97
9:AJ:155:ARG:NH1	9:AJ:156:TRP:H	1.62	0.97
20:AU:74:ARG:HB3	20:AU:81:PHE:CD2	1.98	0.97
24:BA:2491:U:C6	24:BA:2492:U:H5'	1.98	0.97
25:BB:89(A):A:C2'	25:BB:90:C:H5'	1.93	0.97
28:BE:30:PRO:HB2	28:BE:48:GLN:HB2	1.45	0.97
30:BG:56:ALA:HA	30:BG:59:GLU:OE1	1.64	0.97
40:BS:62:THR:HG22	40:BS:79:HIS:HA	0.98	0.97
26:BC:83:ILE:O	26:BC:87:GLU:HB2	1.63	0.97
1:AA:863:U:H2'	1:AA:863:U:O2	1.64	0.97
1:AA:962:C:H4'	1:AA:1200:C:N4	1.78	0.97
4:AE:102:LEU:CD1	4:AE:102:LEU:H	1.77	0.97
12:AM:7:LYS:O	12:AM:97:GLU:HB2	1.64	0.97
54:B7:25:MET:O	54:B7:27:THR:HG22	1.64	0.97
24:BA:2812:G:H2'	24:BA:2813:A:C8	1.99	0.97
24:BA:296:C:H2'	24:BA:297:C:C6	1.98	0.97
24:BA:728:G:HO2'	24:BA:729:G:H8	0.98	0.97
28:BE:27:LEU:HD11	28:BE:30:PRO:HD3	1.46	0.97
32:BK:2:LYS:HD2	32:BK:39:ALA:HB2	1.44	0.97
39:BR:25:ARG:HA	39:BR:87:PHE:O	1.64	0.97
40:BS:64:ARG:HA	40:BS:64:ARG:HH11	0.80	0.97
43:BV:78:GLU:CD	43:BV:99:ARG:HB3	1.83	0.97
43:BV:14:PRO:HD3	43:BV:78:GLU:OE1	1.62	0.97
46:BY:165:VAL:HG12	46:BY:166:SER:N	1.75	0.97
1:AA:1241:G:H2'	1:AA:1242:C:H6	1.29	0.97
1:AA:279:A:H5'	1:AA:280:C:H3'	1.47	0.97
6:AG:36:ARG:HB3	6:AG:38:TYR:CZ	1.98	0.97
9:AJ:31:MET:HG2	9:AJ:32:ARG:N	1.77	0.97
24:BA:1203:G:C5	24:BA:1241:A:C8	2.49	0.97
24:BA:1405:U:H2'	24:BA:1406:U:C5	2.00	0.97
3:AB:63:G:O2'	24:BA:2482:G:H4'	1.63	0.97
24:BA:2542:A:H4'	24:BA:2543:G:OP1	1.62	0.97
24:BA:570:G:N1	24:BA:2498:C:H4'	1.79	0.97
24:BA:988:A:C3'	49:B2:10:LYS:HZ1	1.78	0.97
24:BA:1453:A:H61	38:BQ:63:ARG:HH21	0.98	0.97
1:AA:979:C:H5''	1:AA:1222:G:O6	1.63	0.97
1:AA:781:A:H4'	1:AA:1522:U:O2'	1.64	0.97
8:AI:76:ALA:HB1	8:AI:80:ARG:HH12	1.25	0.97
9:AJ:113:GLU:HG3	9:AJ:118:VAL:HB	1.42	0.97
11:AL:79:LEU:HD13	11:AL:101:PHE:HB3	1.47	0.97
1:AA:625:G:OP1	18:AS:9:PHE:HB3	1.65	0.97
20:AU:43:PHE:O	20:AU:51:LEU:HD13	1.64	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:B6:17:GLY:H	53:B6:21:ARG:HH22	1.07	0.97
24:BA:2361:A:OP2	54:B7:28:GLY:HA2	1.62	0.97
24:BA:1202:C:C6	24:BA:1203:G:H1'	1.97	0.97
24:BA:2064:C:H1'	24:BA:2450:A:N6	1.79	0.97
24:BA:2491:U:C6	24:BA:2491:U:C3'	2.46	0.97
24:BA:2581:G:N1	24:BA:2610:C:H6	1.60	0.97
24:BA:2677:G:O2'	24:BA:2678:C:H5'	1.64	0.97
27:BD:171:ASP:O	27:BD:186:HIS:HA	1.64	0.97
37:BP:23:GLY:CA	37:BP:101:ARG:HH21	1.77	0.97
41:BT:17:ILE:HA	41:BT:20:LEU:CG	1.93	0.97
45:BX:97:ARG:HA	45:BX:101:LYS:HG3	1.46	0.97
1:AA:265:G:O2'	1:AA:266:G:H5'	1.65	0.97
10:AK:98:LYS:HZ2	10:AK:98:LYS:N	1.62	0.97
19:AT:59:ILE:HD12	19:AT:60:ILE:H	1.28	0.97
50:B3:68:ARG:NH1	50:B3:68:ARG:H	1.62	0.97
54:B7:23:VAL:HG22	54:B7:47:LYS:O	1.65	0.97
24:BA:1044:G:H4'	24:BA:1047:G:H1'	1.43	0.97
24:BA:1264:G:H3'	24:BA:1265:A:H5''	1.43	0.97
24:BA:1555:G:H2'	24:BA:1556:C:H6	1.16	0.97
24:BA:566:U:H5''	42:BU:82:ARG:NH1	1.80	0.97
27:BD:147:LEU:HA	27:BD:185:VAL:HG13	1.46	0.97
27:BD:134:ARG:CA	27:BD:168:ARG:HH12	1.77	0.97
27:BD:60:ARG:HD3	27:BD:62:TYR:HE2	1.28	0.97
27:BD:63:ARG:HH11	27:BD:85:ASP:HB2	1.27	0.97
28:BE:49:LEU:HA	28:BE:76:ARG:O	1.65	0.97
34:BM:111:PRO:O	34:BM:114:ARG:HB3	1.65	0.97
34:BM:86:PRO:HB2	34:BM:89:LYS:NZ	1.79	0.97
43:BV:28:SER:HA	43:BV:70:TYR:HA	1.45	0.97
1:AA:665:A:H2'	1:AA:725:G:H22	1.22	0.97
4:AE:20:GLU:HA	4:AE:21:ARG:HH21	1.29	0.97
6:AG:162:LEU:HD13	6:AG:181:MET:HG2	1.42	0.97
12:AM:23:ILE:HG13	12:AM:85:LEU:HB3	1.45	0.97
49:B2:4:LEU:HB3	49:B2:37:LEU:CD2	1.95	0.97
49:B2:9:VAL:HG22	49:B2:53:LEU:O	1.63	0.97
54:B7:50:LEU:CD2	54:B7:51:ALA:H	1.78	0.97
24:BA:1786:A:H4'	24:BA:1938:A:H61	1.27	0.97
24:BA:2346:A:N6	52:B5:37:ARG:HH12	1.62	0.97
24:BA:2598:A:OP1	27:BD:234:GLY:HA3	1.64	0.97
24:BA:68:G:H2'	24:BA:69:C:C6	1.99	0.97
25:BB:7:G:H4'	39:BR:29:PHE:CE2	1.99	0.97
43:BV:4:LYS:HA	43:BV:106:ILE:HD12	1.45	0.97
24:BA:1488:G:C2'	24:BA:1489:U:H5'	1.93	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:587:G:H1'	1:AA:755:G:H22	1.29	0.97
17:AR:62:GLN:O	17:AR:66:LEU:HD23	1.65	0.97
50:B3:47:GLN:HA	50:B3:52:THR:CB	1.95	0.97
24:BA:469:G:H22	53:B6:40:TRP:HZ2	0.97	0.97
53:B6:42:LEU:HB3	53:B6:44:PRO:HG2	1.46	0.97
24:BA:1086:A:H3'	24:BA:1087:G:H5'	1.44	0.97
24:BA:1844:C:OP1	27:BD:255:LYS:HA	1.64	0.97
24:BA:1977:A:H2'	24:BA:1978:A:C8	1.99	0.97
24:BA:2445:G:H2'	24:BA:2446:G:H8	1.27	0.97
24:BA:343:C:O2'	24:BA:344:G:H5'	1.63	0.97
28:BE:45:THR:CB	28:BE:81:ILE:HA	1.95	0.97
30:BG:131:TYR:CG	30:BG:132:ASN:N	2.29	0.97
34:BM:109:LYS:NZ	34:BM:110:GLY:H	1.63	0.97
34:BM:19:GLU:HB2	34:BM:56:ASN:HB3	1.46	0.97
24:BA:2124:G:H4'	26:BC:42:GLU:CG	1.94	0.97
3:AC:9:A:H1'	3:AC:46:G:H1'	1.42	0.97
4:AE:144:ARG:HA	4:AE:147:LYS:HB2	1.47	0.97
10:AK:46:LYS:HE3	10:AK:64:LYS:HG3	1.44	0.97
10:AK:87:SER:CB	10:AK:92:ARG:HA	1.95	0.97
14:AO:101:VAL:O	14:AO:104:VAL:HG23	1.64	0.97
24:BA:185:U:H2'	24:BA:186:G:H8	1.30	0.97
24:BA:343:C:C2'	24:BA:344:G:H5'	1.95	0.97
24:BA:612:G:H4'	24:BA:616:A:H61	1.15	0.97
24:BA:624:C:H41	36:BO:104:GLY:HA2	1.27	0.97
29:BF:122:LYS:HE3	29:BF:192:LEU:HD12	1.45	0.97
30:BG:2:PRO:O	30:BG:5:VAL:HB	1.65	0.97
33:BL:56:GLU:O	33:BL:67:PHE:HB3	1.64	0.97
37:BP:121:ALA:O	37:BP:124:LYS:HB2	1.63	0.97
40:BS:111:ARG:HA	40:BS:114:LEU:HD12	1.44	0.97
41:BT:53:ARG:HB2	41:BT:53:ARG:HH11	1.29	0.97
46:BY:57:ILE:CG1	46:BY:70:LEU:HB3	1.94	0.97
9:AJ:143:ARG:NH1	9:AJ:144:MET:HB2	1.79	0.96
9:AJ:87:VAL:HG13	9:AJ:152:ALA:HA	1.44	0.96
10:AK:36:LEU:H	10:AK:36:LEU:HD23	1.30	0.96
10:AK:64:LYS:HD3	10:AK:79:VAL:HG11	1.47	0.96
1:AA:1180:A:OP1	11:AL:102:LEU:HD12	1.65	0.96
20:AU:41:LYS:O	20:AU:44:LEU:HG	1.63	0.96
22:AW:51:GLU:HA	22:AW:54:LYS:CD	1.95	0.96
24:BA:593:G:OP1	54:B7:62:LEU:HD21	1.63	0.96
24:BA:1061:U:H4'	24:BA:1070:A:C4'	1.95	0.96
24:BA:1222:C:N4	24:BA:1227:A:N6	2.12	0.96
24:BA:640:C:H2'	24:BA:641:C:C5'	1.94	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:232:PRO:HG2	27:BD:247:ALA:CA	1.95	0.96
24:BA:2596:U:C2'	27:BD:242:ARG:CZ	2.43	0.96
35:BN:94:ARG:HG3	35:BN:95:GLY:N	1.78	0.96
36:BO:128:HIS:HA	36:BO:147:LEU:HD21	1.44	0.96
37:BP:106:VAL:HG22	37:BP:107:ALA:N	1.79	0.96
38:BQ:83:ILE:HG23	38:BQ:86:ARG:CZ	1.95	0.96
45:BX:75:ILE:HG22	45:BX:100:ALA:HB2	1.44	0.96
1:AA:194:C:H2'	1:AA:195:A:H5''	1.47	0.96
10:AK:45:ILE:CD1	10:AK:48:TYR:HB3	1.94	0.96
21:AV:27:GLU:HG2	21:AV:29:ARG:H	1.29	0.96
49:B2:3:ARG:NH1	49:B2:59:VAL:HB	1.79	0.96
24:BA:1364:G:N7	50:B3:2:LYS:HB2	1.80	0.96
24:BA:176:G:H2'	24:BA:177:G:O4'	1.64	0.96
24:BA:673:C:H4'	29:BF:82:ILE:HD12	1.45	0.96
24:BA:763:G:O2'	24:BA:764:A:H5''	1.65	0.96
28:BE:105:THR:O	28:BE:196:VAL:HG13	1.63	0.96
31:BH:18:GLU:OE2	31:BH:25:LYS:HB3	1.66	0.96
35:BN:97:ARG:HH11	35:BN:98:VAL:C	1.68	0.96
36:BO:13:ASN:HD22	36:BO:14:LYS:H	1.12	0.96
38:BQ:58:GLY:HA2	38:BQ:80:PHE:CE2	2.00	0.96
39:BR:28:VAL:HG22	39:BR:29:PHE:H	1.24	0.96
40:BS:30:VAL:HG22	40:BS:32:TYR:CE2	1.99	0.96
1:AA:1004:A:H3'	1:AA:1025:U:C4	2.01	0.96
1:AA:265:G:H2'	1:AA:267:C:H5	1.27	0.96
14:AO:28:LYS:HZ1	14:AO:33:ARG:HH22	1.08	0.96
53:B6:32:LYS:HA	53:B6:35:ARG:NH1	1.81	0.96
24:BA:1071:G:H2'	24:BA:1072:C:H5'	1.47	0.96
24:BA:1206:G:H3'	24:BA:1206:G:H8	1.28	0.96
24:BA:1788:C:C2'	27:BD:222:ARG:HH21	1.79	0.96
24:BA:349:G:H2'	24:BA:350:U:C6	2.00	0.96
27:BD:168:ARG:HD3	27:BD:173:VAL:HG22	1.45	0.96
28:BE:133:LYS:NZ	28:BE:137:HIS:HB3	1.81	0.96
30:BG:39:ILE:HG23	30:BG:157:ILE:HB	1.47	0.96
33:BL:57:ILE:HA	33:BL:66:THR:O	1.64	0.96
42:BU:62:LEU:HD22	42:BU:98:GLU:HA	1.44	0.96
46:BY:127:LYS:NZ	46:BY:165:VAL:HB	1.80	0.96
26:BC:86:ALA:HA	26:BC:150:GLY:HA2	1.45	0.96
1:AA:1329:A:OP1	15:AP:29:ARG:HG2	1.64	0.96
4:AE:81:VAL:HG12	4:AE:92:TYR:HD1	1.27	0.96
12:AM:63:PHE:HB3	16:AQ:58:LYS:HA	1.47	0.96
19:AT:59:ILE:CD1	19:AT:71:PHE:HB3	1.95	0.96
52:B5:25:LYS:HE3	54:B7:35:GLN:O	1.66	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2018:G:H1'	41:BT:34:LYS:NZ	1.80	0.96
24:BA:308:G:N2	24:BA:309:G:H1'	1.80	0.96
24:BA:1818:U:H5''	27:BD:158:ALA:HB2	1.45	0.96
29:BF:183:VAL:O	29:BF:186:ILE:HB	1.66	0.96
33:BL:78:ILE:HD13	33:BL:131:ALA:HB2	1.44	0.96
24:BA:636:G:N2	36:BO:75:ILE:HG23	1.80	0.96
1:AA:41:G:H2'	1:AA:42:G:C8	1.98	0.96
4:AE:78:GLN:HG3	4:AE:94:ASN:HB3	1.45	0.96
10:AK:12:ARG:NH1	10:AK:27:PRO:HD3	1.80	0.96
14:AO:39:VAL:HB	14:AO:57:LYS:HB2	1.47	0.96
17:AR:54:ARG:O	17:AR:57:LEU:HB2	1.63	0.96
17:AR:80:ALA:O	17:AR:83:GLU:HB3	1.63	0.96
18:AS:21:VAL:HG21	18:AS:59:TRP:NE1	1.80	0.96
54:B7:21:LYS:HZ2	54:B7:21:LYS:HB2	1.29	0.96
24:BA:125:G:N2	53:B6:10:ARG:HA	1.80	0.96
24:BA:1351:C:H2'	24:BA:1352:U:C6	2.00	0.96
24:BA:740:U:H1'	24:BA:1784:A:N7	1.80	0.96
27:BD:70:TRP:HA	27:BD:73:VAL:HG13	1.44	0.96
34:BM:67:LEU:H	34:BM:87:LEU:CD2	1.77	0.96
37:BP:16:ARG:HG3	37:BP:72:LYS:HD2	1.47	0.96
37:BP:66:ILE:HG22	37:BP:67:ARG:N	1.69	0.96
41:BT:59:ARG:O	41:BT:62:ILE:HB	1.65	0.96
44:BW:85:PRO:HG2	44:BW:87:GLN:HG2	1.47	0.96
1:AA:1129:C:H5'	1:AA:1130:A:OP1	1.64	0.96
4:AE:187:LEU:HD22	4:AE:188:ALA:H	1.31	0.96
5:AF:108:ASN:HD21	5:AF:110:ASN:HB2	1.27	0.96
5:AF:189:ALA:CB	5:AF:196:LEU:HG	1.96	0.96
6:AG:147:ALA:HB2	6:AG:182:LYS:HA	1.46	0.96
11:AL:47:LEU:HD13	11:AL:50:LEU:HB3	1.44	0.96
24:BA:1061:U:H5''	24:BA:1070:A:H4'	1.47	0.96
24:BA:1309:G:O2'	24:BA:1310:G:H5'	1.65	0.96
25:BB:67:G:H2'	25:BB:68:C:C6	2.00	0.96
30:BG:101:ILE:O	30:BG:101:ILE:HD13	1.65	0.96
36:BO:107:LYS:HZ1	36:BO:110:TYR:HB3	1.30	0.96
37:BP:12:GLN:HE22	37:BP:13:GLN:HE21	1.09	0.96
39:BR:9:ARG:HB2	39:BR:9:ARG:HH11	1.25	0.96
40:BS:70:VAL:HB	40:BS:74:ARG:NH1	1.79	0.96
24:BA:531:C:H42	41:BT:38:THR:HA	1.25	0.96
41:BT:74:LEU:HD13	41:BT:78:THR:HG21	1.48	0.96
46:BY:118:GLN:HB2	46:BY:144:LEU:HD22	1.44	0.96
14:AO:126:LYS:N	14:AO:126:LYS:HE3	1.80	0.96
1:AA:296:U:H1'	1:AA:302:G:N2	1.81	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1342:C:H1'	11:AL:124:GLN:OE1	1.65	0.96
50:B3:57:GLU:C	50:B3:61:ARG:HG3	1.85	0.96
52:B5:19:ARG:HH12	52:B5:41:PRO:HG3	1.21	0.96
24:BA:1314:C:OP1	24:BA:1332:G:H5'	1.66	0.96
24:BA:1977:A:H2'	24:BA:1978:A:H8	1.28	0.96
24:BA:2607:G:H2'	24:BA:2608:G:H5'	1.48	0.96
31:BH:7:LEU:HG	31:BH:51:ARG:HH21	1.28	0.96
34:BM:30:ILE:O	34:BM:34:LEU:HD12	1.64	0.96
38:BQ:20:LEU:CD2	38:BQ:24:GLN:HG3	1.94	0.96
10:AK:82:HIS:O	10:AK:137:VAL:HA	1.64	0.96
11:AL:48:GLU:HB3	11:AL:78:LYS:NZ	1.81	0.96
14:AO:85:ILE:HD11	14:AO:99:HIS:N	1.80	0.96
54:B7:8:LYS:CD	54:B7:11:LYS:HZ2	1.77	0.96
24:BA:865:C:H42	24:BA:909:A:N6	1.62	0.96
24:BA:969:U:H2'	24:BA:970:C:O4'	1.63	0.96
33:BL:12:LEU:HB3	33:BL:19:PRO:HG3	1.48	0.96
33:BL:10:LEU:HD21	33:BL:57:ILE:HG12	1.46	0.96
39:BR:49:VAL:HG11	39:BR:80:LEU:HG	1.48	0.96
40:BS:29:ARG:HG2	40:BS:51:ARG:HG2	1.45	0.96
47:BZ:29:GLN:O	47:BZ:67:VAL:HG23	1.64	0.96
4:AE:150:SER:HA	4:AE:153:ARG:HB2	1.48	0.96
9:AJ:49:ILE:HG21	9:AJ:121:ALA:HB1	1.48	0.96
8:AI:48:LEU:HB3	20:AU:78:LEU:HD23	1.45	0.96
24:BA:1669:A:H5''	24:BA:2550:G:OP1	1.65	0.96
24:BA:1773:A:N6	24:BA:1829:A:H1'	1.80	0.96
24:BA:221:A:H61	24:BA:265:A:N6	1.63	0.96
24:BA:2528:U:O2'	24:BA:2529:G:H3'	1.66	0.96
24:BA:614:U:H3'	24:BA:615:G:H4'	1.48	0.96
24:BA:976:C:N4	24:BA:988:A:C2	2.34	0.96
28:BE:114:ALA:HB3	28:BE:118:LYS:HB2	1.45	0.96
28:BE:136:ARG:C	28:BE:137:HIS:ND1	2.19	0.96
32:BK:31:LEU:HD11	32:BK:36:ALA:HB3	1.47	0.96
37:BP:118:LEU:HD13	37:BP:131:ILE:HG21	1.43	0.96
43:BV:34:ASN:HA	43:BV:37:ARG:HE	1.30	0.96
47:BZ:46:LYS:HG3	47:BZ:78:TYR:CZ	2.01	0.96
1:AA:1464:G:H2'	1:AA:1465:C:H5	1.25	0.96
13:AN:61:ALA:HB1	13:AN:94:ALA:CB	1.95	0.96
15:AP:66:LEU:HA	15:AP:70:LEU:HD12	1.47	0.96
24:BA:2576:G:C4'	24:BA:2577:A:H5'	1.96	0.96
24:BA:2627:G:H2'	24:BA:2628:C:H5'	1.48	0.96
24:BA:2757:A:H2'	24:BA:2758:A:H5'	1.46	0.96
24:BA:931:G:H8	24:BA:932:G:H1'	1.27	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:43:C:O2	30:BG:95:ARG:HB2	1.66	0.96
31:BH:153:LYS:N	31:BH:154:PRO:HD2	1.81	0.96
31:BH:38:SER:H	31:BH:41:MET:HE2	1.30	0.96
37:BP:25:ASP:HB3	37:BP:102:VAL:H	1.29	0.96
37:BP:12:GLN:NE2	37:BP:13:GLN:HG2	1.80	0.96
37:BP:16:ARG:CZ	37:BP:73:PRO:HD3	1.96	0.96
41:BT:17:ILE:HA	41:BT:20:LEU:HG	0.99	0.96
24:BA:1248:G:C8	41:BT:2:PRO:HA	2.00	0.96
41:BT:53:ARG:HB2	41:BT:53:ARG:NH1	1.81	0.96
24:BA:995:C:H1'	41:BT:57:PHE:CE2	2.01	0.96
24:BA:993:G:H1'	42:BU:91:TYR:CE2	1.99	0.96
24:BA:1507:A:H2'	24:BA:1507:A:N3	1.80	0.96
1:AA:1128:C:H1'	1:AA:1146:A:H61	1.29	0.95
17:AR:5:LYS:O	17:AR:8:LYS:HB3	1.66	0.95
18:AS:6:LEU:HD13	18:AS:6:LEU:H	1.29	0.95
49:B2:54:VAL:HG22	49:B2:55:ARG:N	1.81	0.95
24:BA:1272:A:OP2	24:BA:1646:C:H2'	1.66	0.95
24:BA:2698:U:H2'	24:BA:2699:C:C6	2.01	0.95
24:BA:862:G:C2	24:BA:863:A:H1'	2.01	0.95
27:BD:27:THR:HG22	27:BD:29:PRO:CD	1.96	0.95
34:BM:15:LEU:HD21	34:BM:137:LYS:HA	1.45	0.95
34:BM:25:ARG:O	34:BM:28:THR:HG23	1.65	0.95
37:BP:99:PRO:O	37:BP:101:ARG:HD3	1.66	0.95
22:AW:87:LYS:HE3	22:AW:87:LYS:HA	1.46	0.95
24:BA:442:G:H4'	29:BF:46:ARG:HG3	1.48	0.95
29:BF:66:PRO:C	29:BF:68:LYS:H	1.64	0.95
38:BQ:32:GLY:HA2	38:BQ:116:LEU:HD21	0.96	0.95
39:BR:74:ALA:HB1	39:BR:108:GLY:N	1.81	0.95
39:BR:76:LYS:O	39:BR:80:LEU:HB2	1.66	0.95
45:BX:47:LYS:NZ	45:BX:51:VAL:HG21	1.82	0.95
26:BC:122:ALA:HB1	26:BC:126:LYS:HD3	1.46	0.95
5:AF:12:LEU:HD21	16:AQ:57:ARG:HG3	1.48	0.95
6:AG:148:VAL:HG21	6:AG:162:LEU:HD11	1.49	0.95
15:AP:8:GLU:HG3	15:AP:22:ILE:HG12	1.47	0.95
20:AU:45:SER:CB	20:AU:51:LEU:HD11	1.95	0.95
50:B3:18:CYS:N	50:B3:33:VAL:HB	1.82	0.95
24:BA:469:G:N2	53:B6:40:TRP:HZ2	1.63	0.95
24:BA:2447:G:N7	24:BA:2500:U:C3'	2.25	0.95
24:BA:2583:G:H2'	24:BA:2584:U:O2	1.65	0.95
24:BA:270(X):G:C2'	24:BA:270(Y):G:H5'	1.96	0.95
24:BA:477:A:H2'	24:BA:478:A:H8	1.28	0.95
27:BD:134:ARG:HD2	27:BD:188:GLU:HA	1.46	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:BE:49:LEU:HD11	28:BE:74:PRO:HB2	1.48	0.95
31:BH:38:SER:HB3	31:BH:41:MET:CG	1.97	0.95
37:BP:112:GLU:O	37:BP:115:MET:HB2	1.65	0.95
37:BP:7:MET:N	37:BP:70:PRO:HG2	1.80	0.95
42:BU:43:GLU:H	42:BU:44:LYS:HZ1	0.97	0.95
42:BU:40:LEU:HD23	42:BU:51:VAL:HG12	1.45	0.95
44:BW:27:THR:HB	44:BW:80:ILE:HD12	1.48	0.95
1:AA:101:A:H2'	1:AA:102:G:H8	1.30	0.95
1:AA:778:G:O2'	1:AA:779:C:H5'	1.67	0.95
5:AF:189:ALA:HB3	5:AF:196:LEU:H	1.29	0.95
9:AJ:76:ARG:HB2	9:AJ:156:TRP:NE1	1.81	0.95
15:AP:97:PRO:HB2	15:AP:101:GLN:HB2	1.48	0.95
19:AT:68:ARG:H	19:AT:70:ARG:NH2	1.62	0.95
24:BA:2063:C:H1'	24:BA:2451:A:C2	2.01	0.95
34:BM:68:GLU:H	34:BM:70:LYS:HZ1	1.01	0.95
37:BP:109:VAL:HG11	37:BP:114:ALA:CB	1.95	0.95
37:BP:83:MET:SD	37:BP:83:MET:N	2.26	0.95
42:BU:66:ARG:HE	42:BU:95:LEU:HB2	1.30	0.95
47:BZ:68:GLU:CB	47:BZ:80:HIS:O	2.15	0.95
26:BC:82:LYS:HD2	26:BC:116:THR:HG21	1.47	0.95
2:A1:43:U:H2'	2:A1:44:U:C5	2.01	0.95
1:AA:678:U:H2'	1:AA:679:C:H6	1.26	0.95
4:AE:184:VAL:HB	4:AE:198:ASP:OD1	1.65	0.95
7:AH:33:VAL:HG22	7:AH:43:LEU:HD12	1.49	0.95
50:B3:65:ASP:CA	50:B3:68:ARG:HH22	1.79	0.95
50:B3:7:PRO:HD3	50:B3:56:VAL:CG1	1.96	0.95
24:BA:598:G:H4'	36:BO:12:ALA:HB3	1.45	0.95
27:BD:56:GLY:H	27:BD:217:ARG:HD2	1.26	0.95
37:BP:94:VAL:HG23	37:BP:95:ALA:N	1.80	0.95
46:BY:39:VAL:HG22	46:BY:44:PHE:CE2	2.01	0.95
47:BZ:65:GLY:HA3	47:BZ:81:VAL:HG12	1.45	0.95
3:AD:19:G:H21	3:AD:57:G:H1'	1.32	0.95
1:AA:1143:G:H2'	1:AA:1144:G:H8	1.27	0.95
1:AA:1179:A:H4'	11:AL:103:THR:OG1	1.67	0.95
12:AM:15:THR:OG1	12:AM:94:VAL:HG23	1.66	0.95
49:B2:31:LEU:HD12	49:B2:32:GLN:HE22	1.28	0.95
54:B7:7:HIS:HB2	54:B7:8:LYS:HZ3	1.29	0.95
24:BA:1270:C:H4'	24:BA:1271:G:C5'	1.96	0.95
24:BA:1695:G:H3'	24:BA:1695:G:N3	1.80	0.95
24:BA:1967:C:N4	24:BA:1968:G:N2	2.14	0.95
24:BA:911:A:C8	24:BA:2264:C:H1'	2.00	0.95
24:BA:2587:A:C2'	24:BA:2588:G:H5'	1.95	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:451:C:N4	24:BA:453:C:H3'	1.80	0.95
28:BE:8:LYS:CD	28:BE:9:VAL:HG22	1.96	0.95
31:BH:164:TYR:HE2	31:BH:167:GLU:H	1.09	0.95
35:BN:47:ILE:HD12	35:BN:52:VAL:HG22	1.48	0.95
46:BY:39:VAL:HG13	46:BY:44:PHE:CD2	2.01	0.95
24:BA:2124:G:H4'	26:BC:42:GLU:HG3	0.98	0.95
26:BC:82:LYS:HE3	26:BC:147:PHE:HD1	1.31	0.95
26:BC:75:LEU:HD11	26:BC:99:ILE:HG21	1.48	0.95
1:AA:1204:A:C2	5:AF:195:VAL:HG21	2.02	0.95
1:AA:1239:A:H4'	1:AA:1240:U:H5''	1.47	0.95
7:AH:11:ILE:HG22	7:AH:12:LEU:H	1.29	0.95
8:AI:97:PHE:HD2	20:AU:31:LEU:HD13	1.32	0.95
10:AK:7:ALA:HA	10:AK:10:LEU:HD12	1.49	0.95
10:AK:87:SER:HB2	10:AK:92:ARG:CA	1.97	0.95
11:AL:103:THR:HG22	11:AL:104:ARG:H	1.32	0.95
1:AA:523:A:H61	14:AO:53:ARG:NH2	1.65	0.95
24:BA:2573:C:OP1	24:BA:2574:G:H5''	1.66	0.95
24:BA:2615:U:H1'	51:B4:7:PRO:HB3	1.45	0.95
24:BA:2815:C:O2'	24:BA:2816:C:H5'	1.67	0.95
24:BA:545:G:H1'	24:BA:549:G:N2	1.80	0.95
27:BD:95:LEU:HD22	27:BD:96:HIS:H	1.31	0.95
28:BE:64:LYS:HA	28:BE:67:PHE:HB2	1.46	0.95
29:BF:70:THR:C	29:BF:72:ARG:H	1.70	0.95
31:BH:115:VAL:HG13	31:BH:116:GLU:N	1.79	0.95
38:BQ:14:SER:O	38:BQ:17:ARG:HG2	1.67	0.95
42:BU:40:LEU:HD23	42:BU:51:VAL:O	1.66	0.95
42:BU:64:HIS:HA	42:BU:97:LYS:HD2	1.46	0.95
44:BW:72:LYS:O	44:BW:73:ARG:HB2	1.65	0.95
24:BA:2120:G:N2	26:BC:167:LYS:HZ1	1.65	0.95
26:BC:108:MET:SD	26:BC:131:LEU:HD23	2.07	0.95
1:AA:1425:U:H2'	1:AA:1426:C:H6	1.31	0.95
24:BA:1966:A:N3	24:BA:2593:U:H5'	1.81	0.95
24:BA:954:G:H2'	24:BA:955:C:O4'	1.67	0.95
25:BB:67:G:H2'	25:BB:68:C:H6	1.28	0.95
28:BE:110:GLY:HA2	28:BE:161:GLY:O	1.66	0.95
31:BH:24:VAL:HG22	31:BH:35:VAL:O	1.67	0.95
33:BL:10:LEU:HD13	33:BL:27:LEU:HD21	1.48	0.95
38:BQ:88:ARG:NH1	38:BQ:88:ARG:HB2	1.81	0.95
45:BX:46:LYS:NZ	45:BX:52:SER:HB2	1.82	0.95
47:BZ:38:VAL:O	47:BZ:59:LEU:HB2	1.65	0.95
6:AG:82:ALA:CB	6:AG:89:THR:HG23	1.97	0.95
21:AV:32:LYS:HA	21:AV:50:ALA:HB3	1.48	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:B2:10:LYS:HZ3	49:B2:12:PRO:HG3	1.30	0.95
54:B7:34:TRP:C	54:B7:36:LYS:N	2.20	0.95
24:BA:1708:C:C2'	24:BA:1709:U:H5''	1.97	0.95
24:BA:2320:A:H1'	24:BA:2333:A:N6	1.81	0.95
27:BD:176:ARG:HH22	27:BD:270:ILE:HD11	1.29	0.95
28:BE:146:THR:HB	28:BE:147:PRO:CD	1.96	0.95
29:BF:65:TRP:NE1	29:BF:73:ALA:HB3	1.81	0.95
34:BM:87:LEU:O	34:BM:90:MET:HB2	1.67	0.95
37:BP:124:LYS:HB3	37:BP:124:LYS:NZ	1.78	0.95
24:BA:535:C:H4'	41:BT:53:ARG:HD2	1.47	0.95
41:BT:67:ALA:HA	41:BT:70:ARG:HH21	1.27	0.95
45:BX:50:ARG:HA	45:BX:54:LYS:HA	1.49	0.95
1:AA:1010:G:N2	1:AA:1020:U:H1'	1.81	0.95
1:AA:375:U:O3'	18:AS:6:LEU:HD21	1.67	0.95
3:AC:75:C:N4	24:BA:2451:A:H4'	1.82	0.95
3:AD:34:G:H3'	3:AD:35:A:C5'	1.97	0.95
10:AK:18:ARG:HA	10:AK:18:ARG:NH1	1.82	0.95
10:AK:90:GLY:O	14:AO:7:ILE:HG21	1.65	0.95
17:AR:70:LEU:HG	17:AR:78:TYR:CG	2.02	0.95
24:BA:1993:U:H2'	24:BA:1994:C:C6	2.02	0.95
24:BA:2453:A:O2'	24:BA:2454:G:H5'	1.65	0.95
24:BA:2461:C:H1'	24:BA:2492:U:H5	1.22	0.95
24:BA:2875:C:H5''	40:BS:3:ARG:HD2	1.44	0.95
24:BA:279:C:N4	24:BA:359:A:H1'	1.82	0.95
24:BA:234:C:N4	24:BA:430:G:H22	1.65	0.95
24:BA:674:G:H5''	29:BF:74:ARG:HH11	1.31	0.95
24:BA:740:U:H5'	24:BA:1784:A:OP1	1.65	0.95
24:BA:932:G:H2'	24:BA:933:A:C8	2.02	0.95
37:BP:81:VAL:HG12	37:BP:82:ARG:H	1.31	0.95
40:BS:35:LYS:HG3	40:BS:84:GLN:O	1.67	0.95
1:AA:416:G:H2'	1:AA:417:C:C6	2.01	0.94
1:AA:736:C:H5''	20:AU:72:ARG:NH2	1.82	0.94
3:AB:54:U:OP1	37:BP:60:ARG:HG2	1.67	0.94
7:AH:145:LYS:O	7:AH:148:VAL:HB	1.65	0.94
10:AK:33:GLU:HG2	10:AK:59:LEU:HD11	1.49	0.94
11:AL:19:LEU:CD2	11:AL:59:PHE:HB3	1.96	0.94
22:AW:49:ALA:HA	22:AW:92:LEU:HD22	1.47	0.94
49:B2:20:LYS:HA	49:B2:23:LEU:HD22	1.46	0.94
24:BA:1049:C:H42	24:BA:1050:A:H62	0.97	0.94
24:BA:1259:G:H2'	24:BA:1260:G:H8	1.30	0.94
24:BA:1543:A:OP2	24:BA:1544:C:H6	1.49	0.94
24:BA:1777:U:O2'	24:BA:1778:U:H5'	1.66	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1804:C:H4'	27:BD:250:TRP:HH2	1.12	0.94
24:BA:470:A:C2	24:BA:471:A:H1'	2.01	0.94
24:BA:60:G:H21	24:BA:74:A:H4'	1.30	0.94
27:BD:176:ARG:HH11	27:BD:176:ARG:HG3	1.30	0.94
28:BE:2:LYS:NZ	28:BE:83:ASP:HB2	1.82	0.94
31:BH:43:VAL:HG13	31:BH:51:ARG:O	1.65	0.94
32:BK:5:LEU:HD11	32:BK:17:GLN:HB2	1.48	0.94
24:BA:1006:C:H1'	34:BM:106:MET:SD	2.07	0.94
34:BM:23:LEU:HD11	34:BM:63:THR:N	1.82	0.94
36:BO:113:LYS:HZ2	36:BO:115:LEU:HD12	1.31	0.94
41:BT:55:ARG:CG	41:BT:58:ARG:HH21	1.79	0.94
6:AG:47:ARG:NH1	6:AG:47:ARG:HB2	1.81	0.94
1:AA:12:U:H2'	1:AA:13:U:C5	2.00	0.94
1:AA:520:A:H62	1:AA:529:G:H21	1.02	0.94
9:AJ:145:ALA:O	9:AJ:146:GLU:HB3	1.66	0.94
10:AK:102:ARG:HB3	10:AK:102:ARG:CZ	1.93	0.94
11:AL:78:LYS:HZ2	11:AL:101:PHE:HE2	1.14	0.94
49:B2:18:ASP:O	49:B2:21:ALA:HB3	1.66	0.94
24:BA:1809:A:H5''	24:BA:1810:A:C2	2.01	0.94
24:BA:1939:U:H1'	24:BA:2592:G:O4'	1.66	0.94
24:BA:2282:G:H1	24:BA:2427:C:H42	1.10	0.94
24:BA:2850:A:C2	24:BA:2869:G:H4'	2.03	0.94
24:BA:447:A:H1'	24:BA:449:A:H61	1.32	0.94
24:BA:687:C:H1'	24:BA:788:A:H5'	1.49	0.94
24:BA:2210:G:C5	27:BD:150:LYS:HA	2.01	0.94
28:BE:120:TRP:CZ2	28:BE:122:PHE:HB2	2.02	0.94
38:BQ:12:ARG:CZ	38:BQ:16:HIS:HB3	1.97	0.94
41:BT:19:LYS:HB2	41:BT:19:LYS:NZ	1.81	0.94
24:BA:535:C:H5'	41:BT:49:HIS:HB3	1.44	0.94
41:BT:93:LYS:H	42:BU:10:LYS:HZ2	0.98	0.94
50:B3:5:ILE:CG2	50:B3:7:PRO:HD2	1.95	0.94
51:B4:46:CYS:HB2	51:B4:47:PRO:HD2	1.50	0.94
24:BA:1425:G:H2'	24:BA:1426:G:C8	2.02	0.94
24:BA:1498:C:H6	24:BA:1576:U:H4'	1.31	0.94
24:BA:1647:G:H4'	24:BA:1648:C:OP1	1.63	0.94
24:BA:1809:A:H2'	24:BA:1810:A:H5'	1.49	0.94
24:BA:455:C:H4'	24:BA:456:C:OP1	1.67	0.94
24:BA:674:G:H4'	29:BF:74:ARG:NE	1.82	0.94
24:BA:91:A:N3	24:BA:91:A:H2'	1.81	0.94
24:BA:972:G:OP1	24:BA:974(A):C:H5'	1.67	0.94
27:BD:119:ALA:HB2	27:BD:130:ALA:H	1.32	0.94
29:BF:130:ALA:HB3	29:BF:142:TRP:CB	1.97	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:134:ARG:CZ	37:BP:137:TYR:H	1.79	0.94
38:BQ:57:ARG:NE	38:BQ:62:ALA:HB2	1.80	0.94
46:BY:43:GLU:H	46:BY:43:GLU:CD	1.68	0.94
1:AA:564:C:C4	19:AT:31:LEU:HD11	2.02	0.94
6:AG:143:GLY:HA2	6:AG:185:PHE:HB3	1.50	0.94
8:AI:23:LYS:HA	8:AI:26:ILE:CD1	1.97	0.94
8:AI:72:VAL:HG23	8:AI:73:ASN:H	1.32	0.94
9:AJ:86:GLN:HB2	9:AJ:148:ASN:ND2	1.81	0.94
11:AL:97:LYS:HZ1	11:AL:102:LEU:HD13	1.32	0.94
17:AR:77:ARG:HH12	17:AR:81:LEU:CB	1.79	0.94
52:B5:37:ARG:O	52:B5:38:LYS:HB2	1.65	0.94
24:BA:1264:G:H5''	24:BA:1265:A:H5''	1.50	0.94
24:BA:1312:U:H3'	24:BA:1313:U:C6	2.01	0.94
24:BA:2491:U:H6	24:BA:2491:U:C3'	1.79	0.94
24:BA:2812:G:H2'	24:BA:2813:A:H8	1.26	0.94
24:BA:351:G:H1'	24:BA:352:G:N7	1.82	0.94
24:BA:447:A:H1'	24:BA:449:A:N6	1.82	0.94
24:BA:472:A:H2'	24:BA:473:G:H5''	1.45	0.94
31:BH:120:GLY:HA3	31:BH:136:ILE:HG22	1.47	0.94
35:BN:34:THR:O	35:BN:61:VAL:HG11	1.68	0.94
32:BK:83:ALA:HB2	32:BK:88:ILE:HA	1.45	0.94
1:AA:1261:A:N6	1:AA:1274:G:H1'	1.83	0.94
6:AG:57:ARG:HB3	6:AG:206:PHE:HB2	1.47	0.94
1:AA:1226:C:C4	15:AP:104:ARG:HG3	2.02	0.94
22:AW:45:GLN:HE21	22:AW:91:LEU:HD13	1.32	0.94
52:B5:14:THR:HG22	52:B5:51:GLU:HG2	1.47	0.94
53:B6:34:ARG:HH22	53:B6:42:LEU:HA	1.30	0.94
24:BA:1533:C:N3	24:BA:1539:G:N2	2.15	0.94
24:BA:1710:C:H2'	24:BA:1711:C:H6	1.32	0.94
24:BA:270(M):U:H4'	24:BA:270(N):G:C4'	1.95	0.94
30:BG:105:LYS:O	30:BG:109:VAL:HG22	1.67	0.94
25:BB:102:G:H2'	46:BY:73:GLN:NE2	1.81	0.94
24:BA:2132:U:H3'	24:BA:2133:G:H5'	1.48	0.94
26:BC:162:GLU:HG2	26:BC:163:PHE:H	1.30	0.94
1:AA:781:A:C2'	1:AA:782:A:H5'	1.98	0.94
4:AE:23:ARG:HH11	4:AE:24:TRP:N	1.65	0.94
15:AP:64:TRP:O	15:AP:65:LYS:HD2	1.68	0.94
24:BA:1049:C:N4	24:BA:1050:A:H62	1.64	0.94
24:BA:1272:A:O2'	24:BA:1273:U:OP1	1.85	0.94
24:BA:1341:U:H3	24:BA:1398:C:H5'	1.31	0.94
24:BA:1784:A:O2'	24:BA:1785:A:OP2	1.82	0.94
24:BA:1819:A:H5''	27:BD:178:PRO:CG	1.96	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:917:A:C3'	24:BA:918:A:H5''	1.96	0.94
27:BD:109:ASP:O	27:BD:111:LEU:HD22	1.68	0.94
28:BE:53:PRO:HG3	28:BE:75:VAL:CG2	1.98	0.94
30:BG:41:GLN:NE2	30:BG:155:MET:HG3	1.83	0.94
36:BO:38:GLN:C	36:BO:40:SER:H	1.62	0.94
40:BS:11:GLU:H	40:BS:11:GLU:CD	1.71	0.94
43:BV:11:ARG:H	43:BV:11:ARG:HH21	1.10	0.94
1:AA:345:C:H4'	1:AA:346:G:O5'	1.66	0.94
1:AA:1375:A:H2'	1:AA:1376:U:C6	2.02	0.94
1:AA:923:A:H2'	1:AA:924:C:C6	2.01	0.94
4:AE:178:ARG:HE	4:AE:196:LEU:HD13	1.25	0.94
5:AF:116:VAL:O	5:AF:119:ARG:HB3	1.67	0.94
1:AA:7:G:H21	7:AH:121:LYS:HG3	1.32	0.94
10:AK:13:ILE:HG22	10:AK:14:ARG:N	1.81	0.94
13:AN:65:ALA:HB1	13:AN:98:LEU:HD23	1.48	0.94
18:AS:4:ILE:HG23	18:AS:21:VAL:HG12	1.50	0.94
24:BA:1565:C:N3	24:BA:1567:A:H1'	1.81	0.94
24:BA:1860:G:H5''	26:BC:206:GLY:HA3	1.48	0.94
24:BA:1911:U:O2'	24:BA:1912:A:H5'	1.67	0.94
24:BA:2296:U:H1'	24:BA:2335:A:N6	1.82	0.94
34:BM:38:HIS:HB3	34:BM:48:MET:HE3	1.47	0.94
35:BN:24:VAL:HA	35:BN:39:ILE:CG2	1.97	0.94
35:BN:8:LEU:HD22	35:BN:9:GLU:H	1.30	0.94
37:BP:32:TYR:HB2	37:BP:105:GLU:O	1.67	0.94
37:BP:75:THR:HG22	37:BP:77:LYS:HD2	1.50	0.94
2:A1:32:U:H2'	2:A1:33:U:C6	2.01	0.94
50:B3:31:ILE:HD13	50:B3:31:ILE:H	1.29	0.94
52:B5:19:ARG:HH12	52:B5:43:CYS:HB2	1.29	0.94
24:BA:1005:C:H5	24:BA:1143:A:OP1	1.51	0.94
24:BA:1281:G:H2'	24:BA:1282:U:H6	1.33	0.94
24:BA:221:A:H61	24:BA:265:A:H62	0.96	0.94
24:BA:324:A:H62	24:BA:339:U:H1'	1.32	0.94
24:BA:997:G:H5''	41:BT:92:ARG:NH1	1.83	0.94
25:BB:100:G:H2'	25:BB:101:A:C8	2.03	0.94
25:BB:44:G:N2	25:BB:48:A:H1'	1.82	0.94
28:BE:8:LYS:HB3	28:BE:24:THR:HB	1.46	0.94
1:AA:1124:G:N2	1:AA:1126:U:H3	1.64	0.94
1:AA:866:C:C5	1:AA:867:G:H1'	2.03	0.94
3:AB:38:A:H2'	3:AB:39:U:H5	1.32	0.94
4:AE:14:GLY:HA3	4:AE:209:ARG:HH21	1.33	0.94
6:AG:105:VAL:HG21	6:AG:121:VAL:HG22	1.47	0.94
12:AM:15:THR:HG23	12:AM:16:LEU:HD22	1.47	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AN:121:PRO:HG2	13:AN:126:ARG:HG2	1.48	0.94
15:AP:16:ASP:HA	15:AP:19:LEU:HG	1.47	0.94
20:AU:79:LEU:O	20:AU:79:LEU:HD13	1.68	0.94
24:BA:72:U:H1'	48:B1:56:LEU:HD23	1.50	0.94
24:BA:1466:G:H2'	24:BA:1547:C:N4	1.83	0.94
24:BA:1799:G:H3'	27:BD:183:ARG:NH2	1.82	0.94
24:BA:479:A:H1'	24:BA:480:A:C8	2.03	0.94
28:BE:2:LYS:HZ3	28:BE:83:ASP:HB2	1.32	0.94
31:BH:24:VAL:HG23	31:BH:35:VAL:HG23	1.50	0.94
31:BH:94:TYR:H	31:BH:95:ARG:NH2	1.65	0.94
36:BO:107:LYS:HE2	36:BO:110:TYR:CD1	2.02	0.94
36:BO:72:PRO:HB2	36:BO:111:ARG:CB	1.98	0.94
43:BV:11:ARG:HA	43:BV:100:THR:HA	1.50	0.94
45:BX:49:VAL:HG21	45:BX:51:VAL:HB	1.46	0.94
26:BC:75:LEU:HD23	26:BC:77:ILE:HD11	1.49	0.94
3:AB:70:G:H2'	3:AB:71:G:H8	1.32	0.94
15:AP:24:GLY:HA3	15:AP:66:LEU:CB	1.97	0.94
21:AV:53:ASN:ND2	21:AV:56:GLN:HB2	1.83	0.94
1:AA:186(A):C:H1'	22:AW:104:LEU:CD2	1.96	0.94
51:B4:13:LYS:H	51:B4:13:LYS:HD3	1.29	0.94
24:BA:1005:C:O2	34:BM:28:THR:HB	1.68	0.94
24:BA:1177:A:H2'	24:BA:1178:C:C6	2.03	0.94
24:BA:1725:G:N2	24:BA:1726:G:H1'	1.82	0.94
24:BA:2051:A:H4'	28:BE:141:ILE:HD11	1.50	0.94
24:BA:2661:G:H2'	24:BA:2662:A:H8	1.32	0.94
24:BA:494:G:H4'	43:BV:6:ILE:O	1.67	0.94
24:BA:783:A:H4'	24:BA:2588:G:O3'	1.66	0.94
33:BL:38:VAL:O	33:BL:41:PHE:HB2	1.68	0.94
34:BM:102:ALA:O	34:BM:105:GLY:HA3	1.68	0.94
34:BM:45:ASN:O	34:BM:46:VAL:HG23	1.66	0.94
38:BQ:45:ARG:HB2	38:BQ:95:THR:HG21	1.48	0.94
41:BT:55:ARG:HG3	41:BT:58:ARG:NH2	1.82	0.94
45:BX:14:LEU:HB2	45:BX:20:TYR:CA	1.98	0.94
24:BA:2161:C:H2'	24:BA:2162:G:H8	1.32	0.94
1:AA:1226:C:C5	15:AP:104:ARG:HA	2.03	0.94
1:AA:7:G:H1'	1:AA:298:A:C8	2.02	0.94
1:AA:858:G:H22	1:AA:869:G:C3'	1.81	0.94
15:AP:108:ARG:NH1	15:AP:111:LYS:HB3	1.82	0.94
22:AW:11:SER:HA	22:AW:13:LEU:HD11	1.48	0.94
24:BA:280:C:OP2	24:BA:280:C:H6	1.50	0.94
37:BP:109:VAL:CG1	37:BP:114:ALA:HB2	1.97	0.94
43:BV:17:VAL:HG23	43:BV:76:VAL:HG11	1.48	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AD:8:U:H3	3:AD:14:A:H62	1.01	0.94
26:BC:41:VAL:HG22	26:BC:216:THR:HG22	1.48	0.94
1:AA:1107:C:C2'	1:AA:1108:G:H5'	1.98	0.93
1:AA:538:G:O3'	14:AO:114:LYS:HD3	1.68	0.93
1:AA:553:A:H2'	1:AA:554:C:C6	2.03	0.93
4:AE:17:PHE:HD1	4:AE:18:GLY:N	1.66	0.93
11:AL:116:LYS:HB3	11:AL:122:ALA:HA	1.46	0.93
13:AN:58:PRO:HB3	13:AN:90:GLY:HA3	1.50	0.93
24:BA:1809:A:H61	50:B3:3:GLU:HG3	1.31	0.93
24:BA:1244:G:H5'	36:BO:9:ASN:CB	1.98	0.93
24:BA:1754:C:H2'	24:BA:1755:A:O4'	1.68	0.93
24:BA:391:G:H2'	24:BA:392:C:C6	2.03	0.93
24:BA:917:A:C8	24:BA:917:A:H3'	2.02	0.93
28:BE:37:ARG:O	28:BE:38:THR:HB	1.66	0.93
29:BF:176:LEU:HG	29:BF:178:PRO:HD2	1.48	0.93
24:BA:2306:C:H4'	30:BG:153:ARG:NH2	1.83	0.93
33:BL:79:ARG:HD3	33:BL:134:MET:HG3	1.50	0.93
37:BP:51:ARG:O	37:BP:55:VAL:HG23	1.68	0.93
26:BC:74:VAL:HG22	26:BC:112:ALA:HB3	1.47	0.93
1:AA:1159:U:H5'	1:AA:1160:G:OP1	1.68	0.93
1:AA:817:C:O2'	1:AA:818:G:H5''	1.69	0.93
3:AB:74:C:H42	24:BA:2555:U:C2'	1.79	0.93
9:AJ:74:GLU:HG2	9:AJ:75:VAL:H	1.30	0.93
12:AM:65:LEU:HB2	16:AQ:56:VAL:HG13	1.50	0.93
18:AS:75:ARG:CG	18:AS:80:PHE:HB3	1.97	0.93
53:B6:28:ARG:HA	53:B6:31:LEU:CD1	1.97	0.93
24:BA:1690:A:C2	24:BA:1691:C:H1'	2.04	0.93
24:BA:1996:C:H2'	24:BA:1997:G:C5'	1.97	0.93
24:BA:247:G:H22	54:B7:8:LYS:HD2	1.30	0.93
24:BA:2589:A:O2'	24:BA:2590:A:H5'	1.68	0.93
24:BA:2848:G:N2	24:BA:2867:G:H1'	1.81	0.93
24:BA:371:A:N7	24:BA:424:G:O4'	2.02	0.93
24:BA:443:A:H5'	29:BF:45:ARG:HH12	1.27	0.93
27:BD:13:ARG:NH1	27:BD:19:ALA:HB1	1.83	0.93
29:BF:80:ALA:H	29:BF:83:PHE:HE2	1.11	0.93
25:BB:51:G:H5'	39:BR:60:GLY:HA2	1.50	0.93
42:BU:15:GLU:HA	42:BU:100:ARG:HH12	1.33	0.93
3:AD:62:C:O2'	26:BC:53:ARG:HG2	1.68	0.93
1:AA:1271:G:OP1	1:AA:1314:C:H5''	1.68	0.93
5:AF:85:ARG:HH21	5:AF:89:GLU:HB2	1.33	0.93
6:AG:20:TYR:CA	6:AG:26:CYS:SG	2.56	0.93
17:AR:70:LEU:HG	17:AR:78:TYR:CD1	2.02	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AW:13:LEU:HD12	22:AW:13:LEU:H	1.30	0.93
54:B7:30:ARG:HH21	54:B7:43:GLN:C	1.72	0.93
24:BA:1026:U:H2'	24:BA:1026:U:O2	1.63	0.93
24:BA:1689:A:N6	24:BA:1698:A:C2	2.35	0.93
24:BA:2212:A:H2'	24:BA:2212:A:N3	1.79	0.93
24:BA:2553:G:N7	24:BA:2583:G:H4'	1.83	0.93
39:BR:51:ALA:HB1	39:BR:73:LEU:HG	1.51	0.93
40:BS:30:VAL:HG23	40:BS:89:VAL:O	1.68	0.93
40:BS:64:ARG:HD3	40:BS:65:LYS:N	1.81	0.93
1:AA:1504:G:OP1	1:AA:1507:A:H4'	1.67	0.93
1:AA:449:C:H2'	1:AA:450:G:O4'	1.68	0.93
4:AE:193:ASP:OD2	4:AE:196:LEU:HD11	1.68	0.93
15:AP:14:ARG:HG3	15:AP:17:VAL:HG23	1.46	0.93
50:B3:56:VAL:HG12	50:B3:57:GLU:H	1.32	0.93
24:BA:2346:A:H62	52:B5:37:ARG:HH12	0.93	0.93
53:B6:17:GLY:H	53:B6:21:ARG:NH2	1.66	0.93
24:BA:1014:U:O2'	24:BA:1015:G:H5'	1.66	0.93
24:BA:1061:U:C5'	24:BA:1070:A:H4'	1.97	0.93
24:BA:1160:G:C6	24:BA:1161:C:N4	2.37	0.93
24:BA:1689:A:N6	24:BA:1698:A:H2	1.64	0.93
24:BA:2211:G:H3'	24:BA:2211:G:N3	1.83	0.93
31:BH:153:LYS:HB2	31:BH:162:ILE:HG23	1.47	0.93
33:BL:35:MET:HA	33:BL:38:VAL:HB	1.47	0.93
34:BM:7:LYS:HE3	34:BM:8:GLN:N	1.83	0.93
37:BP:134:ARG:NH2	37:BP:137:TYR:H	1.64	0.93
39:BR:49:VAL:HG13	39:BR:76:LYS:HE3	1.50	0.93
24:BA:2121:G:H1'	26:BC:167:LYS:NZ	1.82	0.93
4:AE:42:ILE:CD1	4:AE:202:PRO:HB2	1.97	0.93
1:AA:939:G:C5'	9:AJ:102:ARG:HH22	1.80	0.93
19:AT:92:ARG:O	19:AT:95:TYR:HB2	1.69	0.93
54:B7:29:LYS:HB3	54:B7:34:TRP:CH2	2.02	0.93
24:BA:2307:G:H3'	24:BA:2308:G:O4'	1.68	0.93
24:BA:2455:G:H2'	24:BA:2456:C:C6	2.04	0.93
24:BA:289:A:H2'	24:BA:351:G:N1	1.82	0.93
24:BA:470:A:OP1	24:BA:470:A:H4'	1.67	0.93
27:BD:111:LEU:HB3	27:BD:115:GLN:NE2	1.84	0.93
33:BL:18:THR:HG23	33:BL:38:VAL:HG11	1.51	0.93
36:BO:137:LYS:HE3	36:BO:137:LYS:HA	1.49	0.93
37:BP:8:LYS:HZ2	37:BP:93:TYR:HD2	0.94	0.93
41:BT:93:LYS:HA	41:BT:93:LYS:HZ2	1.33	0.93
24:BA:2116:G:H5'	24:BA:2117:A:OP2	1.69	0.93
2:A1:6:U:H2'	2:A1:7:U:C5	2.03	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1394:A:N7	1:AA:1501:C:H1'	1.82	0.93
1:AA:169:C:H2'	1:AA:170:U:H6	1.31	0.93
6:AG:170:VAL:H	6:AG:176:LEU:HD22	1.34	0.93
6:AG:98:GLU:HA	6:AG:103:ASN:ND2	1.84	0.93
8:AI:33:TYR:CD1	8:AI:75:LEU:HG	2.01	0.93
10:AK:98:LYS:HZ2	10:AK:98:LYS:H	1.03	0.93
1:AA:950:U:H5''	15:AP:102:ARG:HH22	1.33	0.93
20:AU:72:ARG:O	20:AU:75:ILE:HB	1.68	0.93
24:BA:1809:A:OP1	24:BA:1809:A:H4'	1.66	0.93
24:BA:2213:U:H5'	24:BA:2215:G:C5	2.04	0.93
24:BA:2889:C:H2'	24:BA:2891:G:C8	2.03	0.93
29:BF:131:GLY:HA2	29:BF:138:GLU:HB2	1.49	0.93
35:BN:64:ARG:HG3	35:BN:65:THR:H	1.34	0.93
37:BP:46:GLN:O	37:BP:49:ALA:HB3	1.68	0.93
40:BS:70:VAL:CG2	40:BS:74:ARG:HD3	1.98	0.93
46:BY:111:VAL:HG22	46:BY:117:LEU:HG	1.48	0.93
46:BY:157:LEU:HD21	46:BY:161:VAL:HA	1.50	0.93
24:BA:2122:U:H4'	26:BC:166:ASP:HB2	1.51	0.93
24:BA:1417:C:H42	24:BA:1581:G:H1	1.01	0.93
1:AA:1100:C:H2'	4:AE:98:LEU:CD1	1.98	0.93
7:AH:100:VAL:HG11	7:AH:107:ARG:HG3	1.48	0.93
12:AM:30:SER:CB	12:AM:81:THR:HA	1.99	0.93
1:AA:761:G:H5'	19:AT:102:GLY:CA	1.99	0.93
22:AW:63:ILE:CD1	22:AW:80:ARG:HB3	1.98	0.93
49:B2:6:VAL:HG12	49:B2:55:ARG:O	1.68	0.93
52:B5:19:ARG:NH1	52:B5:43:CYS:HB2	1.82	0.93
24:BA:1270:C:O2'	24:BA:1648:C:OP2	1.87	0.93
24:BA:2405:G:H2'	24:BA:2411:A:N6	1.84	0.93
24:BA:34:C:H2'	24:BA:455:C:N4	1.84	0.93
24:BA:529:A:O2'	24:BA:530:G:N7	2.02	0.93
24:BA:559:G:H2'	24:BA:560:C:H6	1.21	0.93
31:BH:139:GLN:HG3	31:BH:140:LYS:H	1.33	0.93
35:BN:1:MET:HB3	35:BN:66:LYS:HB3	1.49	0.93
36:BO:46:LYS:N	36:BO:46:LYS:HE3	1.83	0.93
38:BQ:79:LEU:HD23	38:BQ:80:PHE:CA	1.99	0.93
41:BT:49:HIS:CD2	41:BT:52:ARG:HH22	1.85	0.93
42:BU:18:LEU:HD12	42:BU:66:ARG:HH12	1.33	0.93
1:AA:1099:G:O2'	1:AA:1542:U:H4'	1.68	0.93
1:AA:1135:U:H4'	1:AA:1136:U:H5	1.33	0.93
1:AA:1229:A:H2'	1:AA:1230:C:H6	1.33	0.93
1:AA:198:G:OP2	1:AA:198:G:H8	1.52	0.93
1:AA:329:A:H4'	1:AA:330:C:OP1	1.65	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:620:C:C2	6:AG:135:LEU:HD13	2.04	0.93
1:AA:1338:G:N2	3:AC:41:C:H1'	1.84	0.93
55:B8:19:ARG:O	55:B8:22:ARG:CB	2.16	0.93
24:BA:1473:G:H1	24:BA:1519:G:H1'	1.30	0.93
24:BA:1448:G:H4'	24:BA:1543:A:C6	2.04	0.93
24:BA:2330:G:H1	24:BA:2385:C:H42	1.01	0.93
24:BA:627:A:H4'	24:BA:627:A:OP2	1.67	0.93
24:BA:675:A:H4'	29:BF:67:GLN:NE2	1.82	0.93
24:BA:674:G:H5''	29:BF:74:ARG:NH1	1.81	0.93
31:BH:19:VAL:HG12	31:BH:24:VAL:HG12	1.51	0.93
38:BQ:41:ALA:HB1	38:BQ:97:VAL:HG13	1.51	0.93
1:AA:273:A:C2	1:AA:274:A:H1'	2.04	0.93
1:AA:362:G:H8	14:AO:34:ARG:HH22	0.98	0.93
6:AG:173:TRP:NE1	6:AG:189:PRO:HB3	1.83	0.93
8:AI:14:LEU:HD11	8:AI:19:LEU:N	1.84	0.93
49:B2:3:ARG:HH11	49:B2:3:ARG:HB3	1.34	0.93
49:B2:26:LEU:HG	49:B2:47:VAL:HG22	1.50	0.93
24:BA:234:C:H42	24:BA:430:G:H22	1.05	0.93
24:BA:301:G:H2'	24:BA:302:C:C6	2.03	0.93
24:BA:687:C:O2	24:BA:787:U:O3'	1.85	0.93
28:BE:104:VAL:CG2	28:BE:198:VAL:HG13	1.99	0.93
24:BA:450:G:H5'	29:BF:52:LYS:HD3	1.50	0.93
30:BG:16:ARG:HH21	30:BG:16:ARG:HG3	1.32	0.93
31:BH:105:LEU:HB2	31:BH:113:VAL:HG11	1.51	0.93
33:BL:66:THR:O	33:BL:67:PHE:HB2	1.69	0.93
35:BN:39:ILE:CG1	35:BN:59:LYS:HZ1	1.81	0.93
38:BQ:99:LYS:CD	38:BQ:99:LYS:H	1.74	0.93
40:BS:54:ARG:C	40:BS:64:ARG:HB2	1.88	0.93
1:AA:1084:G:C4	1:AA:1085:U:H5	1.87	0.93
1:AA:1153:C:H2'	1:AA:1154:G:C8	2.04	0.93
1:AA:275:G:O3'	19:AT:14:LYS:HD3	1.69	0.93
1:AA:306:G:H2'	1:AA:307:C:C6	2.03	0.93
1:AA:764:C:H2'	1:AA:765:G:N7	1.84	0.93
4:AE:31:TYR:CE2	4:AE:200:ILE:HG21	2.03	0.93
8:AI:75:LEU:HD22	8:AI:79:LEU:HD21	1.47	0.93
1:AA:1048:G:H5''	16:AQ:3:ARG:HH11	1.34	0.93
21:AV:22:LEU:HG	21:AV:25:LYS:HZ1	1.33	0.93
49:B2:9:VAL:HG23	49:B2:10:LYS:N	1.83	0.93
51:B4:58:LEU:HD22	51:B4:59:GLU:N	1.83	0.93
24:BA:1650:G:N2	24:BA:1651:G:H1'	1.83	0.93
24:BA:1660:C:N4	24:BA:2001:A:H61	1.65	0.93
24:BA:684:G:H2'	24:BA:687:C:H41	1.25	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:807:U:O2'	24:BA:808:G:H5'	1.67	0.93
25:BB:29:A:H2'	25:BB:30:C:C6	2.04	0.93
24:BA:1655:A:H4'	28:BE:113:PHE:O	1.69	0.93
40:BS:18:ASP:OD1	40:BS:81:PRO:HG3	1.67	0.93
42:BU:11:GLN:HE22	42:BU:24:LYS:HZ3	0.99	0.93
8:AI:3:ARG:HA	8:AI:67:MET:CE	1.98	0.92
9:AJ:72:ARG:HB3	9:AJ:72:ARG:HH11	1.32	0.92
15:AP:52:GLU:O	15:AP:56:LEU:HG	1.69	0.92
5:AF:29:TYR:CZ	16:AQ:54:PRO:HB2	2.03	0.92
24:BA:988:A:H3'	49:B2:10:LYS:HZ1	1.32	0.92
24:BA:107:C:H4'	24:BA:293:U:H1'	1.49	0.92
24:BA:1264:G:H3'	24:BA:1265:A:C5'	1.98	0.92
34:BM:110:GLY:O	34:BM:114:ARG:HB2	1.67	0.92
1:AA:1278:U:H4'	1:AA:1279:A:O4'	1.69	0.92
1:AA:720:C:C5	1:AA:721:G:H2'	2.04	0.92
1:AA:827:U:H4'	10:AK:19:VAL:HG21	1.51	0.92
13:AN:84:VAL:HG21	20:AU:88:LYS:HD3	1.51	0.92
17:AR:77:ARG:NH1	17:AR:81:LEU:HB2	1.82	0.92
22:AW:73:HIS:H	22:AW:76:ALA:CB	1.82	0.92
49:B2:26:LEU:HB2	49:B2:28:LEU:HD21	1.51	0.92
52:B5:17:LYS:O	52:B5:19:ARG:HD2	1.69	0.92
24:BA:1656:C:H2'	24:BA:1657:C:C5	2.03	0.92
24:BA:2305:A:H8	24:BA:2306:C:H5''	1.32	0.92
28:BE:133:LYS:HB3	28:BE:137:HIS:NE2	1.84	0.92
24:BA:2051:A:C4'	28:BE:141:ILE:HD11	2.00	0.92
30:BG:55:LYS:HD3	30:BG:147:ASP:O	1.68	0.92
40:BS:70:VAL:HB	40:BS:74:ARG:HH11	1.30	0.92
44:BW:44:GLU:HG3	44:BW:51:VAL:CG2	1.98	0.92
45:BX:29:GLU:OE1	45:BX:32:PRO:HG2	1.69	0.92
32:BK:127:VAL:HG13	32:BK:140:LEU:C	1.90	0.92
26:BC:64:LEU:HD23	26:BC:191:ALA:HB3	1.48	0.92
1:AA:944:G:H21	1:AA:1339:A:H62	1.01	0.92
4:AE:115:LEU:HD12	4:AE:118:LEU:HD13	1.50	0.92
5:AF:91:LEU:CD2	5:AF:98:ASN:HA	1.99	0.92
10:AK:24:THR:HG22	10:AK:61:VAL:O	1.68	0.92
15:AP:88:ARG:O	15:AP:91:ARG:HB2	1.67	0.92
19:AT:10:VAL:HG23	19:AT:55:ASP:O	1.70	0.92
22:AW:50:GLU:N	22:AW:99:LEU:HD12	1.83	0.92
24:BA:2371:G:H5'	52:B5:45:LYS:HB3	1.47	0.92
53:B6:5:TRP:CH2	53:B6:7:PRO:HB3	2.04	0.92
24:BA:1779:U:O2'	24:BA:1783:A:N6	2.00	0.92
24:BA:2041:U:H2'	24:BA:2042:A:C8	2.04	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AB:52:G:O2'	24:BA:2470:G:O3'	1.85	0.92
24:BA:2557:G:H2'	24:BA:2558:C:C6	2.03	0.92
25:BB:62:C:H2'	25:BB:63:G:H8	1.34	0.92
30:BG:57:ALA:HA	30:BG:68:PRO:CD	1.98	0.92
35:BN:10:VAL:HG13	35:BN:11:ALA:N	1.81	0.92
38:BQ:99:LYS:N	38:BQ:99:LYS:HD2	1.83	0.92
42:BU:43:GLU:O	42:BU:44:LYS:HD3	1.68	0.92
45:BX:1:MET:N	45:BX:33:LYS:HE3	1.84	0.92
1:AA:1104:G:H4'	4:AE:111:ARG:HE	1.35	0.92
4:AE:69:LEU:O	4:AE:162:ILE:HA	1.69	0.92
6:AG:100:ARG:HH22	6:AG:137:SER:HA	1.34	0.92
10:AK:14:ARG:HH11	10:AK:14:ARG:HB3	1.32	0.92
13:AN:58:PRO:O	13:AN:61:ALA:HB3	1.68	0.92
15:AP:48:LEU:HD11	15:AP:56:LEU:HD12	1.50	0.92
19:AT:7:THR:CG2	19:AT:56:VAL:HG12	1.98	0.92
24:BA:1717:G:N2	24:BA:1718:G:N3	2.17	0.92
24:BA:1913:A:C2	24:BA:1917:U:H5	1.87	0.92
24:BA:2083:G:H2'	24:BA:2084:C:C6	2.03	0.92
24:BA:2439:A:C8	24:BA:2586:C:H4'	2.04	0.92
24:BA:1820:U:H2'	27:BD:202:LYS:HG3	1.49	0.92
29:BF:131:GLY:HA2	29:BF:138:GLU:CG	1.99	0.92
30:BG:61:ALA:CB	30:BG:67:LYS:HE2	1.98	0.92
38:BQ:45:ARG:O	38:BQ:49:ASP:CB	2.17	0.92
46:BY:176:PRO:HB2	46:BY:179:ASP:CA	1.99	0.92
32:BK:77:LEU:HD11	32:BK:140:LEU:HB3	1.51	0.92
1:AA:1229:A:H2'	1:AA:1230:C:C6	2.04	0.92
1:AA:1263:C:H2'	1:AA:1264:C:H6	1.34	0.92
1:AA:1433:A:N6	1:AA:1467:G:H21	1.67	0.92
1:AA:828:A:N1	1:AA:859:A:O4'	2.02	0.92
10:AK:25:ASP:HB3	10:AK:58:TYR:HB3	1.51	0.92
54:B7:30:ARG:CZ	54:B7:44:LYS:HB2	1.99	0.92
24:BA:1309:G:C2'	24:BA:1310:G:H5'	1.99	0.92
24:BA:1800:C:C6	24:BA:1800:C:H3'	2.04	0.92
24:BA:2332:U:H4'	24:BA:2336:A:N6	1.85	0.92
24:BA:2440:C:H5''	24:BA:2587:A:H4'	1.48	0.92
24:BA:2862:G:H2'	24:BA:2863:C:H6	1.32	0.92
24:BA:459:U:H3'	53:B6:40:TRP:CH2	2.05	0.92
24:BA:621:A:H2'	24:BA:622:G:H5'	1.49	0.92
24:BA:847:U:H3	24:BA:933:A:H2	1.13	0.92
27:BD:181:GLU:HB2	27:BD:268:ARG:HH21	1.33	0.92
27:BD:5:LYS:NZ	27:BD:31:LYS:HZ1	1.66	0.92
28:BE:164:ARG:O	28:BE:165:VAL:HG22	1.68	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:67:ARG:HB2	37:BP:103:MET:SD	2.09	0.92
37:BP:23:GLY:H	37:BP:99:PRO:HG3	1.34	0.92
37:BP:75:THR:HG22	37:BP:77:LYS:H	1.33	0.92
37:BP:75:THR:HG23	37:BP:91:GLU:OE1	1.69	0.92
41:BT:44:ASN:HD21	42:BU:78:LYS:CG	1.83	0.92
1:AA:20:U:H5'	1:AA:572:A:N6	1.84	0.92
9:AJ:122:HIS:O	9:AJ:125:MET:HG3	1.69	0.92
9:AJ:69:VAL:CG2	9:AJ:104:LEU:HD21	1.98	0.92
1:AA:1230:C:H1'	15:AP:126:LYS:HG3	1.49	0.92
50:B3:5:ILE:HG21	50:B3:60:GLN:CD	1.89	0.92
24:BA:1491:G:H2'	24:BA:1492:G:H4'	1.48	0.92
27:BD:131:LEU:HG	27:BD:132:PRO:HD2	1.49	0.92
35:BN:25:LEU:HD22	35:BN:38:VAL:HG23	1.47	0.92
39:BR:78:LEU:HD13	39:BR:79:ALA:N	1.84	0.92
1:AA:1054:C:H2'	1:AA:1055:A:H5''	1.50	0.92
1:AA:1180:A:H2'	1:AA:1181:G:H5'	1.51	0.92
6:AG:155:LEU:HB2	6:AG:158:ILE:HG12	1.47	0.92
7:AH:94:ALA:HB1	7:AH:98:THR:HG21	1.52	0.92
8:AI:6:VAL:CG2	8:AI:8:ILE:HD11	1.99	0.92
10:AK:120:THR:O	10:AK:123:GLU:HB3	1.69	0.92
11:AL:16:ARG:HG2	11:AL:18:PHE:CE1	2.05	0.92
1:AA:529:G:H1	14:AO:49:ASN:HB3	1.35	0.92
14:AO:85:ILE:HD11	14:AO:98:TYR:CB	1.99	0.92
21:AV:62:ILE:HD11	21:AV:67:VAL:HA	1.50	0.92
24:BA:1186:G:H3'	24:BA:1187:G:C8	2.05	0.92
24:BA:1774:C:C5	24:BA:1775:U:C5	2.57	0.92
24:BA:2636:U:C4'	28:BE:79:ARG:HD3	1.99	0.92
24:BA:2754:U:H2'	24:BA:2755:C:H5''	1.51	0.92
24:BA:472:A:H2'	24:BA:473:G:C5'	1.99	0.92
28:BE:119:ARG:CZ	28:BE:155:LYS:HB3	2.00	0.92
36:BO:76:LYS:HA	36:BO:101:VAL:HG11	1.52	0.92
39:BR:99:LYS:O	39:BR:102:ALA:HB3	1.69	0.92
39:BR:26:LEU:HD21	39:BR:37:ALA:HB1	1.51	0.92
24:BA:566:U:H5''	42:BU:82:ARG:CZ	1.99	0.92
24:BA:2261:C:P	47:BZ:17:GLN:HB2	2.09	0.92
1:AA:237:C:H5''	19:AT:25:ARG:CZ	1.99	0.92
5:AF:14:ILE:HG21	5:AF:179:ARG:HA	1.49	0.92
50:B3:13:ARG:O	50:B3:14:ILE:HG12	1.70	0.92
24:BA:1205:U:C4	24:BA:1207:C:N4	2.37	0.92
24:BA:179:G:H5'	53:B6:32:LYS:NZ	1.84	0.92
24:BA:789:A:H3'	24:BA:789:A:OP1	1.69	0.92
34:BM:97:ARG:HA	34:BM:100:GLU:HG2	1.50	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BN:89:ASN:ND2	35:BN:91:LEU:HB2	1.85	0.92
36:BO:55:ARG:O	36:BO:56:SER:HB2	1.70	0.92
46:BY:151:HIS:HB2	46:BY:168:GLU:HG2	1.51	0.92
1:AA:994:A:N7	1:AA:1216:G:H4'	1.84	0.92
1:AA:186(D):C:H2'	1:AA:186(E):C:C6	2.05	0.92
3:AC:58:A:H2'	3:AC:61:C:H41	1.33	0.92
14:AO:59:ARG:HA	14:AO:64:TYR:O	1.68	0.92
1:AA:191:G:C4	22:AW:105:SER:HB3	2.04	0.92
24:BA:1005:C:H2'	24:BA:1006:C:H6	1.34	0.92
24:BA:2459:A:C2'	24:BA:2460:U:O4'	2.18	0.92
24:BA:637:A:C2	24:BA:651:G:H5''	2.05	0.92
27:BD:68:LYS:HB3	27:BD:70:TRP:NE1	1.84	0.92
27:BD:8:PRO:HD2	27:BD:26:LYS:O	1.69	0.92
34:BM:58:ASP:O	34:BM:60:ILE:N	2.02	0.92
36:BO:56:SER:HB3	54:B7:13:ARG:NH2	1.82	0.92
39:BR:89:ARG:HH11	39:BR:91:PRO:HA	1.34	0.92
41:BT:111:GLU:HA	41:BT:114:LYS:NZ	1.85	0.92
41:BT:49:HIS:HA	41:BT:52:ARG:CZ	1.98	0.92
24:BA:84:A:H5'	45:BX:8:LYS:HE2	1.49	0.92
46:BY:104:PHE:HZ	46:BY:120:ILE:HG22	1.32	0.92
47:BZ:68:GLU:HB3	47:BZ:80:HIS:O	1.70	0.92
5:AF:60:ALA:HB2	12:AM:92:THR:OG1	1.70	0.92
1:AA:1180:A:C2'	1:AA:1181:G:H5'	2.01	0.92
1:AA:703:G:H4'	1:AA:704:A:O5'	1.70	0.92
1:AA:96:G:H2'	1:AA:97:U:C6	2.05	0.92
5:AF:38:ARG:HH11	5:AF:38:ARG:CB	1.82	0.92
8:AI:10:LEU:H	8:AI:10:LEU:HD23	1.33	0.92
10:AK:5:PRO:O	10:AK:8:ASP:HB3	1.70	0.92
12:AM:50:ILE:CA	12:AM:60:ARG:HG3	2.00	0.92
14:AO:60:LEU:HD13	14:AO:60:LEU:N	1.80	0.92
15:AP:52:GLU:HA	15:AP:55:ARG:NE	1.85	0.92
1:AA:979:C:N4	16:AQ:18:VAL:HB	1.85	0.92
50:B3:43:TYR:HA	50:B3:61:ARG:HH22	1.19	0.92
24:BA:1617:C:H4'	24:BA:1617:C:OP2	1.69	0.92
24:BA:2574:G:H1'	28:BE:143:ASN:HD22	1.33	0.92
24:BA:2620:C:H4'	28:BE:156:MET:CB	2.00	0.92
24:BA:2881:C:H2'	24:BA:2882:A:H8	1.35	0.92
27:BD:117:VAL:HG22	27:BD:126:GLN:NE2	1.85	0.92
27:BD:57:GLY:H	27:BD:217:ARG:HD2	1.33	0.92
37:BP:12:GLN:HE21	37:BP:13:GLN:HG2	1.33	0.92
38:BQ:103:ARG:HB2	38:BQ:108:GLY:C	1.90	0.92
42:BU:69:LYS:HG2	42:BU:70:ILE:HG13	1.52	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:BV:33:ARG:HE	43:BV:33:ARG:HA	1.35	0.92
32:BK:127:VAL:HA	32:BK:140:LEU:O	1.68	0.92
1:AA:410:G:H1'	1:AA:432:A:H61	1.33	0.91
1:AA:783:C:O2'	1:AA:784:C:H5'	1.69	0.91
1:AA:911:U:H2'	1:AA:912:C:H6	1.31	0.91
7:AH:121:LYS:HZ2	7:AH:122:GLU:N	1.67	0.91
7:AH:9:LYS:HB2	7:AH:33:VAL:HB	1.51	0.91
7:AH:43:LEU:H	7:AH:65:ASN:HD22	1.03	0.91
10:AK:70:GLN:NE2	10:AK:72:PRO:HD2	1.85	0.91
10:AK:85:ARG:HG2	10:AK:85:ARG:HH11	1.35	0.91
14:AO:83:VAL:HG23	14:AO:104:VAL:HB	1.53	0.91
19:AT:88:TYR:O	19:AT:92:ARG:HB2	1.71	0.91
22:AW:50:GLU:HG3	22:AW:54:LYS:HE3	1.51	0.91
55:B8:10:ILE:HD13	55:B8:32:HIS:HD2	1.32	0.91
24:BA:1291:C:H5''	24:BA:1536:A:H5'	1.52	0.91
24:BA:1774:C:C5	24:BA:1775:U:H5	1.89	0.91
24:BA:1790:C:H4'	27:BD:213:ARG:NH1	1.85	0.91
24:BA:1791:A:H3'	24:BA:1792:G:H8	1.33	0.91
24:BA:2027:G:H1'	24:BA:2037:G:N2	1.83	0.91
24:BA:2329:G:H1	24:BA:2386:C:N4	1.67	0.91
27:BD:133:LEU:C	27:BD:136:ILE:HG13	1.89	0.91
29:BF:158:THR:HG21	29:BF:196:LEU:N	1.84	0.91
37:BP:34:LEU:HD11	37:BP:105:GLU:HB2	1.51	0.91
37:BP:67:ARG:NH1	37:BP:103:MET:HB3	1.85	0.91
40:BS:52:ILE:HA	40:BS:66:VAL:CG1	2.01	0.91
40:BS:68:TYR:CE2	40:BS:70:VAL:HG22	2.05	0.91
40:BS:3:ARG:O	40:BS:7:ILE:HG12	1.70	0.91
42:BU:34:GLU:HA	42:BU:62:LEU:O	1.69	0.91
24:BA:2120:G:H21	26:BC:167:LYS:HZ2	1.17	0.91
30:BG:91:ARG:CB	30:BG:91:ARG:HH21	1.82	0.91
48:B1:2:ARG:O	48:B1:5:LEU:HB2	1.70	0.91
1:AA:599:C:C4'	10:AK:130:GLY:HA3	2.01	0.91
24:BA:2433:A:N6	50:B3:32:TYR:HE2	1.68	0.91
3:AB:74:C:N4	24:BA:2555:U:H2'	1.86	0.91
24:BA:68:G:H2'	24:BA:69:C:H6	1.34	0.91
24:BA:979:G:H3'	24:BA:980:A:C5'	1.99	0.91
27:BD:155:LEU:HG	27:BD:157:ARG:NE	1.85	0.91
27:BD:129:ASN:O	27:BD:193:VAL:HB	1.69	0.91
29:BF:103:LYS:HB3	29:BF:107:LYS:HE3	1.52	0.91
35:BN:112:MET:O	35:BN:115:VAL:HB	1.71	0.91
39:BR:3:ARG:CG	39:BR:4:LEU:H	1.80	0.91
41:BT:83:LEU:HD12	41:BT:83:LEU:H	1.34	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:75:G:N3	46:BY:27:VAL:HG21	1.84	0.91
46:BY:4:ARG:HE	46:BY:44:PHE:HZ	0.94	0.91
46:BY:48:PHE:CZ	46:BY:86:VAL:HG11	2.05	0.91
1:AA:356:A:O3'	1:AA:367:U:H2'	1.70	0.91
4:AE:118:LEU:HD21	4:AE:142:LEU:HB2	1.52	0.91
7:AH:70:PRO:HB2	7:AH:143:ARG:HA	1.52	0.91
11:AL:55:ALA:HB3	11:AL:58:HIS:HE1	1.31	0.91
52:B5:7:ILE:O	52:B5:9:LEU:N	2.04	0.91
24:BA:1142:U:H3'	24:BA:1142(A):A:N7	1.86	0.91
24:BA:1281:G:H2'	24:BA:1282:U:C6	2.04	0.91
24:BA:1448:G:O3'	24:BA:1543:A:N1	2.02	0.91
24:BA:1559:G:H1	24:BA:1560:G:H4'	1.27	0.91
24:BA:1762:A:H8	24:BA:1762:A:H3'	1.31	0.91
24:BA:2075:U:H2'	24:BA:2076:U:C5'	2.00	0.91
24:BA:2543:G:C2	24:BA:2765:A:C2	2.57	0.91
24:BA:653:A:N6	24:BA:655:A:H1'	1.84	0.91
24:BA:826:U:H5''	24:BA:2428:G:O3'	1.69	0.91
30:BG:47:LYS:HB2	30:BG:53:LEU:HD11	1.52	0.91
41:BT:46:ALA:O	41:BT:50:ARG:HD3	1.70	0.91
42:BU:62:LEU:HD12	42:BU:96:ILE:CB	1.98	0.91
46:BY:27:VAL:CG2	46:BY:85:HIS:NE2	2.26	0.91
26:BC:120:MET:HE1	26:BC:138:PRO:HB2	1.53	0.91
1:AA:628:G:H2'	1:AA:629:G:C8	2.06	0.91
7:AH:71:LEU:HD11	7:AH:74:GLY:HA2	1.52	0.91
9:AJ:69:VAL:HG21	9:AJ:104:LEU:CD2	1.99	0.91
1:AA:942:G:H21	11:AL:124:GLN:HE22	1.12	0.91
14:AO:58:VAL:O	14:AO:65:GLU:HA	1.70	0.91
48:B1:20:VAL:HA	48:B1:55:LEU:HD23	1.52	0.91
24:BA:1222:C:H42	24:BA:1227:A:H62	1.17	0.91
24:BA:2469:A:H8	24:BA:2469:A:H5'	1.34	0.91
24:BA:2615:U:C1'	51:B4:7:PRO:HB3	2.01	0.91
24:BA:2848:G:C8	40:BS:99:LEU:HD11	2.06	0.91
24:BA:917:A:C2'	24:BA:918:A:H5''	2.01	0.91
28:BE:105:THR:CB	28:BE:166:THR:HB	1.99	0.91
28:BE:66:HIS:CD2	28:BE:71:GLY:H	1.89	0.91
28:BE:80:GLU:HG2	28:BE:83:ASP:OD2	1.70	0.91
29:BF:122:LYS:HZ3	29:BF:122:LYS:HA	1.35	0.91
29:BF:197:ASP:CA	29:BF:200:GLU:HG3	1.98	0.91
31:BH:38:SER:H	31:BH:41:MET:CE	1.83	0.91
24:BA:1058:G:H21	33:BL:116:ASN:ND2	1.66	0.91
36:BO:72:PRO:CB	36:BO:111:ARG:HB3	2.00	0.91
37:BP:6:ARG:HB2	37:BP:44:ALA:CB	2.00	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BQ:86:ARG:HB3	38:BQ:86:ARG:NH1	1.85	0.91
40:BS:111:ARG:O	40:BS:114:LEU:HB2	1.70	0.91
41:BT:88:ILE:N	42:BU:52:VAL:HG22	1.86	0.91
24:BA:2122:U:C2'	24:BA:2123:G:H5''	1.99	0.91
26:BC:77:ILE:HG21	26:BC:123:VAL:HG22	1.50	0.91
1:AA:600:C:OP1	10:AK:97:VAL:N	2.04	0.91
1:AA:777:A:H2'	1:AA:778:G:H8	1.36	0.91
1:AA:1191:A:OP1	5:AF:4:LYS:HG2	1.69	0.91
5:AF:33:LEU:CD1	16:AQ:54:PRO:HD2	1.99	0.91
50:B3:66:SER:O	50:B3:69:LYS:HB2	1.70	0.91
24:BA:1138:G:H21	24:BA:1139:G:H1'	1.33	0.91
24:BA:484:C:H2'	24:BA:485:C:H6	1.29	0.91
24:BA:510:C:P	24:BA:512:G:H1	1.93	0.91
31:BH:8:PRO:HB3	31:BH:51:ARG:HH12	1.36	0.91
32:BK:21:VAL:O	32:BK:25:TYR:HB2	1.70	0.91
34:BM:30:ILE:O	34:BM:33:LEU:HB3	1.71	0.91
36:BO:96:THR:HG21	36:BO:112:LEU:HD13	1.53	0.91
37:BP:59:ARG:HH22	46:BY:177:PRO:HB3	1.30	0.91
39:BR:62:LYS:HB3	39:BR:65:VAL:H	1.35	0.91
35:BN:122:LEU:HA	40:BS:74:ARG:NH1	1.85	0.91
41:BT:89:GLU:CG	42:BU:52:VAL:HG23	2.01	0.91
42:BU:62:LEU:HD11	42:BU:98:GLU:HG2	1.52	0.91
26:BC:10:LEU:HD21	26:BC:220:PRO:HD3	1.51	0.91
1:AA:363:A:OP2	14:AO:34:ARG:HB3	1.70	0.91
1:AA:828:A:H2'	1:AA:829:G:O4'	1.71	0.91
1:AA:975:A:O2'	1:AA:1358:U:H1'	1.71	0.91
7:AH:109:ILE:HD13	7:AH:135:THR:HB	1.53	0.91
12:AM:24:VAL:HG22	12:AM:72:VAL:HG13	1.52	0.91
18:AS:19:ILE:HB	18:AS:37:GLY:O	1.69	0.91
22:AW:73:HIS:H	22:AW:76:ALA:HB3	1.36	0.91
24:BA:1646:C:C3'	24:BA:1647:G:H5'	2.01	0.91
24:BA:2341:G:H2'	24:BA:2342:C:C6	2.06	0.91
24:BA:2563:U:H4'	35:BN:28:SER:OG	1.69	0.91
24:BA:920:G:O2'	24:BA:921:G:H5'	1.70	0.91
27:BD:211:ARG:O	27:BD:215:LEU:HD12	1.70	0.91
30:BG:49:ASP:HA	30:BG:53:LEU:CD2	2.00	0.91
31:BH:94:TYR:HA	31:BH:106:THR:O	1.70	0.91
39:BR:62:LYS:HD2	39:BR:64:GLU:CB	2.01	0.91
42:BU:5:VAL:H	42:BU:12:TYR:HD2	0.96	0.91
45:BX:47:LYS:HB2	45:BX:49:VAL:HG22	1.51	0.91
1:AA:509:A:H2'	1:AA:510:A:C8	2.05	0.91
5:AF:67:THR:HG22	5:AF:104:GLN:HG2	1.49	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:121:VAL:HA	6:AG:126:ILE:HD11	1.52	0.91
7:AH:48:ALA:HB1	7:AH:53:LEU:HB3	1.51	0.91
9:AJ:111:ARG:NH1	9:AJ:112:PRO:HD2	1.85	0.91
10:AK:46:LYS:HZ2	10:AK:64:LYS:HA	1.34	0.91
24:BA:789:A:H4'	24:BA:790:C:OP1	1.69	0.91
27:BD:181:GLU:HA	27:BD:270:ILE:HD12	1.52	0.91
27:BD:183:ARG:CG	27:BD:268:ARG:HB2	2.01	0.91
31:BH:35:VAL:HG21	31:BH:72:ILE:HG23	1.52	0.91
34:BM:43:THR:HB	34:BM:44:PRO:HD2	0.92	0.91
34:BM:34:LEU:C	34:BM:49:GLY:HA2	1.90	0.91
35:BN:77:ILE:CG2	40:BS:65:LYS:HE2	2.00	0.91
45:BX:74:PRO:HB3	45:BX:101:LYS:C	1.90	0.91
45:BX:42:VAL:N	45:BX:61:ILE:HB	1.83	0.91
2:A1:52:U:H4'	6:AG:50:ARG:HA	1.50	0.91
1:AA:776:G:H5''	1:AA:777:A:OP1	1.70	0.91
3:AB:38:A:H2'	3:AB:39:U:C5	2.06	0.91
4:AE:82:ARG:HD2	4:AE:92:TYR:OH	1.70	0.91
6:AG:94:LEU:HA	6:AG:97:LEU:CD1	2.00	0.91
1:AA:974:A:OP2	16:AQ:31:ARG:HG2	1.70	0.91
17:AR:62:GLN:HA	17:AR:65:ARG:HH22	1.31	0.91
24:BA:2344:U:C5'	52:B5:38:LYS:HG3	2.00	0.91
24:BA:1061:U:H4'	24:BA:1070:A:H4'	1.52	0.91
24:BA:1080:C:H1'	33:BL:126:MET:HA	1.52	0.91
24:BA:739:G:O3'	24:BA:1784:A:N1	2.04	0.91
24:BA:1864:U:H2'	24:BA:1869:G:H5'	1.50	0.91
24:BA:1934:C:H5'	24:BA:1974:C:H4'	1.50	0.91
24:BA:2764:A:OP1	24:BA:2764:A:H4'	1.68	0.91
27:BD:37:LEU:HD11	27:BD:63:ARG:C	1.90	0.91
27:BD:61:LEU:CB	27:BD:86:PRO:HG2	2.00	0.91
28:BE:72:VAL:HG23	28:BE:74:PRO:HD3	1.53	0.91
28:BE:4:ILE:HD11	28:BE:76:ARG:CZ	2.01	0.91
29:BF:11:VAL:HG13	29:BF:127:GLU:HB2	1.49	0.91
29:BF:157:VAL:HG22	29:BF:194:MET:HB3	1.52	0.91
34:BM:78:TYR:HB3	34:BM:79:PRO:HD2	1.53	0.91
41:BT:112:ARG:HH12	42:BU:50:PRO:CG	1.83	0.91
46:BY:110:GLY:O	46:BY:113:ALA:HB3	1.71	0.91
24:BA:2175:C:H1'	26:BC:218:MET:HA	1.53	0.91
12:AM:79:ARG:HD3	12:AM:79:ARG:C	1.91	0.91
23:AX:14:TRP:HZ3	23:AX:15:ARG:CZ	1.83	0.91
52:B5:32:ASN:CG	52:B5:33:LYS:H	1.69	0.91
54:B7:56:GLU:OE2	54:B7:56:GLU:N	2.03	0.91
24:BA:1614:A:N3	24:BA:1614:A:H3'	1.85	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1697:G:C8	24:BA:1698:A:H5''	2.06	0.91
24:BA:2408:U:O5'	24:BA:2408:U:H6	1.52	0.91
24:BA:570:G:H1	24:BA:2498:C:H4'	1.34	0.91
28:BE:33:VAL:HG22	28:BE:47:VAL:O	1.70	0.91
28:BE:50:GLY:H	28:BE:76:ARG:HG3	1.34	0.91
35:BN:15:GLY:CA	35:BN:52:VAL:HG21	2.01	0.91
39:BR:57:LYS:HZ2	39:BR:65:VAL:HA	1.35	0.91
1:AA:191(C):G:H2'	1:AA:191(D):U:C6	2.06	0.91
1:AA:911:U:H2'	1:AA:912:C:C6	2.06	0.91
8:AI:23:LYS:HA	8:AI:26:ILE:HD12	1.53	0.91
18:AS:23:ASP:OD2	18:AS:33:ILE:HD11	1.71	0.91
24:BA:1789:A:OP1	27:BD:222:ARG:HG2	1.71	0.91
24:BA:2581:G:H1	24:BA:2610:C:C2'	1.83	0.91
24:BA:390:A:H5''	24:BA:391:G:OP1	1.70	0.91
24:BA:716:A:H2'	24:BA:717:G:H5'	1.50	0.91
24:BA:821:A:H2'	24:BA:946:G:C8	2.06	0.91
27:BD:246:PRO:HD2	27:BD:250:TRP:CB	2.01	0.91
27:BD:9:TYR:HH	27:BD:91:ARG:HH21	1.17	0.91
27:BD:9:TYR:HH	27:BD:91:ARG:NH2	1.70	0.91
24:BA:2571:C:H1'	28:BE:146:THR:HG23	1.51	0.91
29:BF:74:ARG:NH1	29:BF:75:HIS:HA	1.86	0.91
32:BK:32:PRO:HG2	32:BK:33:ARG:H	1.35	0.91
34:BM:23:LEU:HD12	34:BM:63:THR:CG2	2.01	0.91
34:BM:67:LEU:H	34:BM:87:LEU:HD21	1.35	0.91
35:BN:10:VAL:H	35:BN:17:ARG:HG2	1.36	0.91
36:BO:93:GLY:HA2	36:BO:112:LEU:CD1	2.01	0.91
38:BQ:57:ARG:HE	38:BQ:62:ALA:HB2	1.35	0.91
39:BR:69:VAL:O	39:BR:73:LEU:HD13	1.69	0.91
1:AA:1200:C:H3'	1:AA:1201:A:H5'	1.50	0.90
1:AA:1403:C:H1'	1:AA:1500:A:H61	1.31	0.90
6:AG:100:ARG:NH2	6:AG:137:SER:HA	1.86	0.90
9:AJ:98:SER:O	9:AJ:101:LEU:HB3	1.71	0.90
15:AP:22:ILE:HB	15:AP:25:ILE:CD1	2.01	0.90
22:AW:13:LEU:HB2	22:AW:17:ARG:HH21	1.33	0.90
24:BA:1325:G:H21	43:BV:86:LEU:HD13	1.35	0.90
24:BA:1543:A:H3'	24:BA:1544:C:C4'	1.99	0.90
24:BA:1856:G:H2'	24:BA:1857:G:H5'	1.51	0.90
24:BA:1935:G:H1	24:BA:1962:C:H2'	1.36	0.90
24:BA:2326:C:N3	24:BA:2389:G:N1	2.19	0.90
24:BA:468:G:H2'	24:BA:469:G:O4'	1.71	0.90
24:BA:728:G:C2	24:BA:762:U:H3'	2.06	0.90
24:BA:784:A:N6	24:BA:792:G:N3	2.17	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:5:LYS:HB3	27:BD:82:ILE:HB	1.52	0.90
29:BF:164:ARG:HB2	29:BF:177:ALA:CB	2.01	0.90
30:BG:44:GLY:O	30:BG:47:LYS:HB3	1.71	0.90
35:BN:64:ARG:NH1	35:BN:77:ILE:HB	1.85	0.90
24:BA:2117:A:N6	24:BA:2171:A:N1	2.19	0.90
1:AA:43:C:H5''	18:AS:12:LYS:CB	2.01	0.90
1:AA:858:G:H22	1:AA:869:G:H3'	1.32	0.90
3:AD:34:G:H3'	3:AD:35:A:H5''	1.52	0.90
5:AF:108:ASN:HD22	5:AF:111:LEU:HD13	1.36	0.90
49:B2:6:VAL:O	49:B2:35:ARG:HG2	1.68	0.90
49:B2:3:ARG:HH22	49:B2:59:VAL:HG11	1.35	0.90
24:BA:1138:G:N2	24:BA:1139:G:H1'	1.86	0.90
24:BA:1475:G:N2	24:BA:1477:A:H62	1.70	0.90
24:BA:1667:G:N3	24:BA:1667:G:H2'	1.87	0.90
24:BA:2665:A:H3'	24:BA:2665:A:C8	2.04	0.90
24:BA:2731:G:H4'	28:BE:168:MET:SD	2.12	0.90
24:BA:549:G:H2'	24:BA:550:G:C8	2.06	0.90
28:BE:107:THR:O	28:BE:190:GLY:HA3	1.71	0.90
33:BL:23:VAL:HG13	33:BL:27:LEU:CD1	2.00	0.90
33:BL:18:THR:HA	33:BL:38:VAL:HG21	1.49	0.90
34:BM:107:LEU:HD21	34:BM:113:GLY:HA3	1.52	0.90
34:BM:3:THR:O	34:BM:4:TYR:HB2	1.69	0.90
34:BM:89:LYS:HE2	34:BM:89:LYS:N	1.85	0.90
37:BP:71:ASP:OD2	37:BP:95:ALA:HA	1.71	0.90
41:BT:102:GLU:O	41:BT:105:VAL:HG12	1.70	0.90
42:BU:57:VAL:HG12	42:BU:58:VAL:H	1.33	0.90
46:BY:152:ALA:HA	46:BY:155:LEU:CD1	2.01	0.90
1:AA:1408:A:C2	1:AA:1495:U:C5	2.58	0.90
1:AA:272:C:H2'	1:AA:273:A:H8	1.36	0.90
1:AA:376:G:H2'	1:AA:377:G:H8	1.33	0.90
1:AA:384:G:H2'	1:AA:385:C:H6	1.34	0.90
1:AA:692:U:O2	1:AA:694:A:H3'	1.72	0.90
4:AE:160:ASP:HB3	4:AE:182:ILE:HG21	1.50	0.90
4:AE:48:MET:SD	4:AE:48:MET:N	2.44	0.90
9:AJ:69:VAL:HG22	9:AJ:135:VAL:CG2	2.00	0.90
10:AK:83:ILE:HA	10:AK:137:VAL:HG22	1.54	0.90
13:AN:82:VAL:HB	13:AN:108:ILE:HG12	1.53	0.90
50:B3:21:VAL:HG12	50:B3:22:ILE:H	1.37	0.90
24:BA:1044:G:N2	24:BA:1111:A:H4'	1.86	0.90
24:BA:1186:G:C8	24:BA:1187:G:C8	2.58	0.90
24:BA:1270:C:H4'	24:BA:1271:G:H5'	1.50	0.90
24:BA:1773:A:C6	24:BA:1829:A:H1'	2.05	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2076:U:H4'	24:BA:2077:A:OP1	1.70	0.90
24:BA:20:C:O2'	24:BA:21:A:H5'	1.70	0.90
24:BA:2305:A:H2'	24:BA:2306:C:H5''	1.51	0.90
24:BA:2320:A:H5'	24:BA:2321:G:C5	2.07	0.90
24:BA:234:C:H42	24:BA:430:G:N2	1.69	0.90
24:BA:323:G:H5'	24:BA:324:A:OP1	1.71	0.90
24:BA:365:C:H2'	24:BA:366:C:C6	2.06	0.90
27:BD:206:LEU:N	27:BD:206:LEU:HD13	1.87	0.90
27:BD:258:LYS:HA	27:BD:261:LYS:NZ	1.85	0.90
27:BD:95:LEU:HD22	27:BD:96:HIS:N	1.86	0.90
28:BE:91:VAL:HG22	28:BE:93:VAL:H	1.36	0.90
31:BH:115:VAL:HG13	31:BH:116:GLU:H	1.35	0.90
35:BN:97:ARG:HB2	35:BN:97:ARG:HH21	1.11	0.90
38:BQ:33:ARG:HB2	38:BQ:113:LEU:HD11	1.51	0.90
44:BW:7:VAL:HG11	48:B1:31:ARG:HH22	1.37	0.90
1:AA:1433:A:H62	1:AA:1467:G:N2	1.67	0.90
4:AE:77:ALA:HA	4:AE:208:ILE:HD11	1.50	0.90
6:AG:59:ARG:HH11	6:AG:59:ARG:HA	1.35	0.90
14:AO:85:ILE:HG13	14:AO:87:GLY:H	1.35	0.90
20:AU:18:ARG:HH21	20:AU:21:LYS:HB2	1.36	0.90
24:BA:530:G:N1	24:BA:2022:U:OP1	2.03	0.90
24:BA:46:C:OP2	24:BA:215:G:H3'	1.71	0.90
24:BA:2244:U:H1'	24:BA:2434:A:C5	2.07	0.90
24:BA:270(I):G:C2	24:BA:270(J):G:H1'	2.07	0.90
24:BA:640:C:C2'	24:BA:641:C:H5''	2.01	0.90
24:BA:665:C:H2'	24:BA:666:G:H8	1.35	0.90
27:BD:11:PRO:HB2	27:BD:24:ILE:HB	1.53	0.90
28:BE:198:VAL:HG12	28:BE:200:GLU:OE2	1.71	0.90
24:BA:2305:A:H2'	30:BG:154:GLY:HA2	1.52	0.90
35:BN:64:ARG:HH12	35:BN:77:ILE:CB	1.84	0.90
40:BS:24:PRO:HG2	40:BS:25:GLY:H	1.32	0.90
44:BW:62:LYS:O	44:BW:63:LYS:HB2	1.69	0.90
45:BX:38:ILE:HA	45:BX:62:GLU:HG3	1.51	0.90
46:BY:53:ILE:HG12	46:BY:58:VAL:HG21	1.51	0.90
47:BZ:46:LYS:HG2	47:BZ:77:ARG:O	1.72	0.90
32:BK:92:VAL:CB	32:BK:120:ILE:O	2.17	0.90
26:BC:51:PRO:HB3	26:BC:165:ASN:HD21	1.35	0.90
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.04	0.90
4:AE:75:LYS:HZ3	4:AE:75:LYS:HA	1.36	0.90
1:AA:275:G:H5'	19:AT:14:LYS:NZ	1.86	0.90
20:AU:74:ARG:HG3	20:AU:79:LEU:HD22	1.52	0.90
48:B1:27:LEU:CA	48:B1:30:LEU:HG	2.01	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:B5:19:ARG:NH1	52:B5:19:ARG:HG2	1.80	0.90
24:BA:1157:G:H3'	24:BA:1157:G:OP2	1.71	0.90
24:BA:1624:G:C2	24:BA:1625:C:N4	2.39	0.90
24:BA:1820:U:C2	27:BD:202:LYS:HG2	2.07	0.90
24:BA:1863:G:H2'	24:BA:1864:U:C6	2.07	0.90
24:BA:2028:U:H2'	24:BA:2029:G:C8	2.07	0.90
24:BA:2314:C:H2'	24:BA:2315:G:H8	1.37	0.90
24:BA:2329:G:N2	24:BA:2386:C:H42	1.69	0.90
24:BA:2361:A:H3'	24:BA:2362:G:H8	1.36	0.90
24:BA:2524:G:H5'	24:BA:2764:A:O2'	1.69	0.90
24:BA:818:G:O2'	24:BA:819:A:H5''	1.71	0.90
27:BD:181:GLU:HB3	27:BD:268:ARG:HE	1.37	0.90
24:BA:691:C:H1'	27:BD:45:ASN:HD21	1.37	0.90
30:BG:5:VAL:HG12	30:BG:9:ARG:NH2	1.87	0.90
30:BG:57:ALA:HA	30:BG:68:PRO:N	1.87	0.90
39:BR:9:ARG:HD3	39:BR:12:PHE:HE2	1.35	0.90
42:BU:40:LEU:CA	42:BU:54:GLY:HA3	2.00	0.90
43:BV:76:VAL:HG23	43:BV:103:ILE:HA	1.53	0.90
3:AB:71:G:N2	3:AB:72:C:H1'	1.86	0.90
1:AA:508:C:HO2'	1:AA:509:A:H8	0.94	0.90
1:AA:857:C:H2'	1:AA:858:G:O4'	1.71	0.90
1:AA:961:U:O2'	1:AA:962:C:H5'	1.70	0.90
4:AE:102:LEU:HD22	4:AE:176:GLU:HB3	1.51	0.90
4:AE:118:LEU:HD13	4:AE:142:LEU:HD12	1.52	0.90
1:AA:1348:U:H4'	11:AL:120:ARG:NH1	1.85	0.90
5:AF:30:ARG:HB3	16:AQ:36:PHE:O	1.71	0.90
22:AW:12:ALA:N	22:AW:13:LEU:HD12	1.86	0.90
48:B1:44:LYS:HG3	48:B1:48:LEU:HD22	1.52	0.90
49:B2:41:PRO:HA	49:B2:44:ARG:HH11	1.35	0.90
55:B8:23:VAL:HB	55:B8:36:GLN:CG	2.01	0.90
55:B8:7:VAL:HG11	55:B8:36:GLN:HE22	1.33	0.90
24:BA:64:A:N3	44:BW:66:LEU:HD22	1.87	0.90
30:BG:76:SER:O	30:BG:83:ARG:HG3	1.71	0.90
37:BP:43:THR:HA	37:BP:94:VAL:HG11	1.52	0.90
41:BT:57:PHE:HA	41:BT:60:LEU:CG	2.00	0.90
42:BU:11:GLN:NE2	42:BU:24:LYS:HZ3	1.70	0.90
1:AA:449:C:N3	1:AA:450:G:H1'	1.86	0.90
1:AA:697:U:H2'	1:AA:698:G:C8	2.06	0.90
4:AE:102:LEU:HB2	4:AE:176:GLU:OE1	1.69	0.90
5:AF:134:ILE:O	5:AF:138:VAL:HG23	1.71	0.90
8:AI:8:ILE:CG2	8:AI:88:VAL:HA	2.00	0.90
10:AK:104:ARG:HH11	10:AK:104:ARG:HG2	1.36	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AL:55:ALA:CB	11:AL:58:HIS:HE1	1.79	0.90
21:AV:45:VAL:HG22	21:AV:67:VAL:HG21	1.53	0.90
24:BA:2348:U:C3'	54:B7:42:ARG:HH22	1.83	0.90
24:BA:1071:G:H2'	24:BA:1072:C:C5'	2.01	0.90
24:BA:1423:G:H2'	24:BA:1424:G:H8	1.35	0.90
24:BA:1657:C:H2'	24:BA:1658:C:H6	1.37	0.90
24:BA:1764:G:O2'	24:BA:1765:C:H5'	1.70	0.90
24:BA:2618:G:N3	28:BE:150:VAL:HG11	1.86	0.90
24:BA:265:A:H8	24:BA:265:A:C3'	1.85	0.90
24:BA:64:A:O2'	24:BA:65:C:H5'	1.72	0.90
24:BA:961:C:N4	24:BA:2031:A:N3	2.19	0.90
25:BB:101:A:H2'	25:BB:102:G:C8	2.04	0.90
24:BA:1996:C:O2'	28:BE:123:ALA:HB3	1.72	0.90
31:BH:7:LEU:CB	31:BH:52:VAL:HG13	2.02	0.90
34:BM:34:LEU:HA	34:BM:49:GLY:O	1.71	0.90
37:BP:134:ARG:NH2	37:BP:137:TYR:HD1	1.69	0.90
42:BU:17:GLY:HA3	42:BU:19:LYS:HZ2	1.30	0.90
24:BA:64:A:O2'	44:BW:71:GLY:HA3	1.72	0.90
26:BC:116:THR:HA	26:BC:146:GLY:O	1.72	0.90
1:AA:1198:G:H2'	1:AA:1199:U:O4'	1.72	0.90
4:AE:139:LYS:HG3	4:AE:140:HIS:N	1.87	0.90
7:AH:23:GLY:HA3	7:AH:25:ARG:NH1	1.86	0.90
8:AI:76:ALA:HB3	8:AI:80:ARG:HH22	1.35	0.90
9:AJ:111:ARG:HB2	9:AJ:119:ARG:HG2	1.51	0.90
15:AP:67:GLU:CG	15:AP:68:GLY:H	1.85	0.90
15:AP:7:VAL:HG13	30:BG:114:ILE:CD1	2.00	0.90
17:AR:75:PRO:HA	17:AR:78:TYR:HB3	1.53	0.90
53:B6:34:ARG:NH2	53:B6:42:LEU:HA	1.87	0.90
54:B7:55:ALA:HA	54:B7:58:ILE:HD11	1.54	0.90
24:BA:1819:A:H1'	24:BA:1821:A:C2	2.07	0.90
24:BA:2059:A:N1	24:BA:2503:A:N7	2.19	0.90
24:BA:30:G:H2'	24:BA:31:C:O4'	1.72	0.90
27:BD:106:ILE:HD12	27:BD:192:THR:HG21	1.52	0.90
28:BE:33:VAL:HG13	28:BE:48:GLN:HA	1.54	0.90
29:BF:33:LEU:O	29:BF:36:VAL:HG12	1.71	0.90
44:BW:48:LYS:O	44:BW:88:LYS:HG3	1.69	0.90
47:BZ:37:LEU:HG	47:BZ:59:LEU:O	1.72	0.90
26:BC:97:GLU:HG2	26:BC:122:ALA:HB3	1.54	0.90
26:BC:76:ALA:HB2	26:BC:153:ILE:CD1	2.01	0.90
2:A1:6:U:H2'	2:A1:7:U:H5	1.33	0.90
1:AA:1321:C:H4'	15:AP:87:TYR:OH	1.72	0.90
1:AA:707:C:O2'	1:AA:708:C:H5'	1.72	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:80:ILE:HD12	4:AE:208:ILE:HG12	1.53	0.90
8:AI:26:ILE:O	8:AI:30:LEU:HG	1.72	0.90
9:AJ:50:ILE:O	9:AJ:54:THR:HG23	1.70	0.90
17:AR:36:ILE:HD11	17:AR:60:VAL:HG13	1.52	0.90
24:BA:2056:G:N2	51:B4:4:HIS:CD2	2.40	0.90
54:B7:8:LYS:HD3	54:B7:11:LYS:NZ	1.86	0.90
24:BA:1180:C:OP2	24:BA:1180:C:H3'	1.71	0.90
24:BA:1470:G:H21	24:BA:1522:G:H1	0.92	0.90
24:BA:1788:C:C4	24:BA:1789:A:C8	2.60	0.90
24:BA:2553:G:N2	24:BA:2554:U:C1'	2.35	0.90
27:BD:89:SER:OG	27:BD:158:ALA:HB1	1.71	0.90
24:BA:2786:U:O2	28:BE:61:ARG:HG3	1.72	0.90
29:BF:131:GLY:HA2	29:BF:138:GLU:CB	2.02	0.90
30:BG:111:LEU:HB3	30:BG:112:PRO:CD	2.02	0.90
44:BW:92:LEU:H	44:BW:92:LEU:HD12	1.34	0.90
46:BY:175:VAL:HG22	46:BY:176:PRO:HD2	1.54	0.90
1:AA:1048:G:H5''	16:AQ:3:ARG:NH1	1.87	0.90
1:AA:1204:A:H2	5:AF:195:VAL:HG21	1.32	0.90
4:AE:82:ARG:N	4:AE:94:ASN:HD21	1.70	0.90
6:AG:125:HIS:HB3	6:AG:152:SER:HB2	1.52	0.90
7:AH:51:VAL:O	7:AH:55:VAL:HG23	1.71	0.90
9:AJ:125:MET:HG3	9:AJ:126:ASP:H	1.35	0.90
21:AV:20:LEU:O	21:AV:22:LEU:N	2.05	0.90
55:B8:23:VAL:HB	55:B8:36:GLN:HG2	1.54	0.90
24:BA:1375:C:H2'	24:BA:1376:C:H6	1.36	0.90
24:BA:2266:A:H5'	24:BA:2267:A:N3	1.85	0.90
24:BA:2286:A:H2	52:B5:27:LYS:CB	1.84	0.90
24:BA:532:A:OP1	24:BA:2021:C:N4	2.04	0.90
27:BD:133:LEU:O	27:BD:136:ILE:HG13	1.72	0.90
41:BT:114:LYS:HG2	41:BT:115:ALA:N	1.86	0.90
41:BT:85:LYS:HD3	41:BT:116:ALA:O	1.72	0.90
46:BY:96:VAL:HA	46:BY:128:VAL:HG13	1.52	0.90
1:AA:1521:G:H2'	1:AA:1522:U:H6	1.34	0.89
1:AA:790:A:N6	1:AA:791:G:C2	2.40	0.89
4:AE:95:GLN:HG3	4:AE:148:TYR:CB	2.02	0.89
24:BA:2433:A:H62	50:B3:32:TYR:HE2	0.95	0.89
50:B3:5:ILE:HG22	50:B3:7:PRO:CD	2.02	0.89
24:BA:976:C:C5'	24:BA:1156:A:H62	1.85	0.89
24:BA:1291:C:H5'	24:BA:1535:U:O2'	1.71	0.89
24:BA:1775:U:O2'	24:BA:1776:G:H5'	1.72	0.89
24:BA:1824:G:H2'	24:BA:1825:A:O4'	1.72	0.89
24:BA:1903:G:H2'	24:BA:1904:G:H8	1.34	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:198:C:O2'	24:BA:199:A:H8	1.54	0.89
24:BA:2225:A:H5'	24:BA:2226:C:O4'	1.70	0.89
24:BA:2690:C:H6	24:BA:2690:C:H3'	1.37	0.89
24:BA:269:U:H3	24:BA:270:A:H62	1.20	0.89
24:BA:2700:C:H2'	24:BA:2701:C:H5''	1.51	0.89
24:BA:621:A:N6	24:BA:622:G:N3	2.19	0.89
24:BA:672:C:H3'	36:BO:38:GLN:HE22	1.35	0.89
25:BB:51:G:H2'	25:BB:52:A:O5'	1.72	0.89
27:BD:177:LEU:HD11	27:BD:268:ARG:NH2	1.87	0.89
27:BD:37:LEU:HD11	27:BD:63:ARG:HA	1.50	0.89
24:BA:2636:U:H4'	28:BE:79:ARG:HH21	1.36	0.89
30:BG:58:GLN:O	30:BG:61:ALA:HB3	1.71	0.89
30:BG:57:ALA:HA	30:BG:68:PRO:HD2	1.54	0.89
30:BG:75:LYS:HB3	30:BG:84:LYS:H	1.35	0.89
34:BM:16:ILE:HB	34:BM:54:VAL:HG23	1.50	0.89
41:BT:97:ASP:C	41:BT:101:ARG:HE	1.75	0.89
24:BA:1154:G:OP1	41:BT:62:ILE:HD11	1.70	0.89
26:BC:38:ASP:OD2	26:BC:178:ALA:HB3	1.71	0.89
26:BC:62:VAL:HB	26:BC:195:ALA:HB3	1.53	0.89
33:BL:14:ALA:HB3	33:BL:49:GLY:HA2	1.53	0.89
1:AA:1253:G:N1	1:AA:1285:A:N6	2.17	0.89
4:AE:130:ARG:HB3	4:AE:131:PRO:HD2	1.53	0.89
6:AG:191:ARG:HD3	6:AG:192:GLU:N	1.86	0.89
10:AK:32:LYS:HG2	10:AK:33:GLU:H	1.37	0.89
12:AM:68:HIS:HB3	12:AM:70:ARG:HH21	1.35	0.89
14:AO:84:LEU:CB	14:AO:104:VAL:HG11	2.02	0.89
14:AO:54:LYS:HB3	14:AO:70:ILE:HB	1.54	0.89
20:AU:74:ARG:HA	20:AU:79:LEU:CD1	2.01	0.89
48:B1:23:LYS:O	48:B1:26:GLU:HB3	1.72	0.89
48:B1:52:ILE:O	48:B1:56:LEU:HD22	1.72	0.89
24:BA:1237:A:O2'	24:BA:1238:G:O4'	1.89	0.89
24:BA:1913:A:H1'	24:BA:1918:A:N6	1.87	0.89
24:BA:2556:C:H2'	24:BA:2557:G:O4'	1.71	0.89
24:BA:2051:A:H5''	24:BA:2578:G:H5''	1.52	0.89
24:BA:2749:A:H4'	31:BH:62:LYS:HG3	1.53	0.89
24:BA:574:C:O2'	24:BA:575:A:OP2	1.91	0.89
29:BF:41:LEU:HB2	29:BF:44:ARG:HH11	1.35	0.89
33:BL:13:PRO:HB2	33:BL:16:LYS:HD3	1.54	0.89
37:BP:27:VAL:HG22	37:BP:28:ALA:N	1.82	0.89
41:BT:89:GLU:HB3	42:BU:51:VAL:C	1.93	0.89
42:BU:68:LYS:HG2	42:BU:95:LEU:HD21	1.52	0.89
45:BX:2:ARG:HD2	45:BX:3:VAL:N	1.86	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BK:87:LYS:CA	32:BK:121:LYS:O	2.20	0.89
1:AA:1245:A:H2'	1:AA:1246:C:C6	2.06	0.89
4:AE:61:LEU:HD11	4:AE:68:ILE:CD1	2.02	0.89
8:AI:33:TYR:CG	8:AI:75:LEU:HG	2.06	0.89
15:AP:55:ARG:NH2	15:AP:56:LEU:HD21	1.87	0.89
17:AR:34:LEU:HG	17:AR:35:ARG:H	1.37	0.89
50:B3:52:THR:HG22	50:B3:53:GLU:N	1.84	0.89
52:B5:19:ARG:C	52:B5:43:CYS:HG	1.74	0.89
24:BA:1024:G:N2	24:BA:1139:G:N1	2.20	0.89
24:BA:1265:A:H1'	24:BA:1267:U:C4	2.08	0.89
24:BA:1841:U:H2'	24:BA:1842:G:C8	2.06	0.89
24:BA:2637:U:C5'	28:BE:81:ILE:HD11	2.03	0.89
27:BD:120:GLY:O	27:BD:122:ASP:N	2.05	0.89
27:BD:13:ARG:CZ	27:BD:19:ALA:HB1	2.03	0.89
27:BD:246:PRO:CG	27:BD:250:TRP:HB3	2.02	0.89
30:BG:62:LEU:HD23	30:BG:143:GLU:CB	2.02	0.89
30:BG:74:LYS:HD3	30:BG:87:PRO:HG3	1.53	0.89
30:BG:96:ARG:O	30:BG:99:MET:HB2	1.72	0.89
31:BH:126:PRO:O	31:BH:127:GLU:HG2	1.69	0.89
42:BU:18:LEU:HD23	42:BU:18:LEU:H	1.37	0.89
26:BC:117:PRO:HD3	26:BC:146:GLY:C	1.93	0.89
33:BL:138:VAL:O	33:BL:139:VAL:HG23	1.71	0.89
1:AA:1107:C:H2'	1:AA:1108:G:C5'	2.02	0.89
1:AA:255:G:H4'	19:AT:16:GLN:O	1.71	0.89
1:AA:307:C:C4	1:AA:308:C:H5	1.89	0.89
22:AW:13:LEU:HD12	22:AW:13:LEU:N	1.84	0.89
22:AW:44:ALA:CB	22:AW:91:LEU:HD12	2.02	0.89
24:BA:1697:G:H3'	24:BA:1698:A:H5'	1.52	0.89
24:BA:1785:A:OP1	24:BA:1982:C:H5'	1.72	0.89
24:BA:1812:A:H2'	24:BA:1813:G:O4'	1.70	0.89
24:BA:2209:C:H4'	27:BD:150:LYS:HB3	1.51	0.89
24:BA:2723:C:O2'	38:BQ:2:ARG:HA	1.72	0.89
24:BA:49:A:H5'	24:BA:50:U:OP1	1.71	0.89
24:BA:673:C:H2'	24:BA:674:G:H5'	1.53	0.89
35:BN:107:ARG:O	35:BN:109:LYS:HE2	1.72	0.89
36:BO:91:PHE:H	36:BO:125:VAL:HG11	1.35	0.89
40:BS:91:ARG:O	40:BS:93:ARG:NH2	2.04	0.89
44:BW:64:LYS:O	44:BW:70:LEU:HG	1.72	0.89
44:BW:73:ARG:HG2	44:BW:74:PRO:HD2	1.53	0.89
45:BX:12:THR:HA	45:BX:73:ARG:HD2	1.52	0.89
32:BK:112:LYS:H	32:BK:112:LYS:HD2	1.36	0.89
26:BC:162:GLU:C	26:BC:163:PHE:HD2	1.74	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:346:G:H2'	1:AA:347:G:O4'	1.72	0.89
1:AA:105:G:H2'	1:AA:106:C:C6	2.08	0.89
1:AA:1339:A:C2'	1:AA:1340:A:H5'	2.03	0.89
13:AN:68:ALA:HA	13:AN:71:LYS:HD2	1.55	0.89
15:AP:72:ALA:O	15:AP:75:ALA:HB3	1.73	0.89
19:AT:5:VAL:HG22	19:AT:60:ILE:CA	2.00	0.89
19:AT:75:ARG:HH22	19:AT:77:VAL:HG22	1.35	0.89
22:AW:85:MET:HB2	22:AW:104:LEU:HD21	1.52	0.89
50:B3:68:ARG:H	50:B3:68:ARG:HH11	1.08	0.89
24:BA:1612:C:O2'	53:B6:5:TRP:HB3	1.70	0.89
24:BA:198:C:HO2'	24:BA:199:A:H8	0.91	0.89
24:BA:2425:A:OP2	24:BA:2427:C:H5''	1.71	0.89
24:BA:2512:C:H5''	28:BE:120:TRP:CH2	2.07	0.89
24:BA:832:G:H2'	24:BA:833:U:H5	1.33	0.89
24:BA:953:A:C2'	24:BA:954:G:H5'	2.02	0.89
27:BD:156:ALA:O	27:BD:158:ALA:N	2.05	0.89
27:BD:9:TYR:OH	27:BD:91:ARG:NH2	2.04	0.89
28:BE:36:ARG:HD2	28:BE:41:LYS:NZ	1.85	0.89
29:BF:121:GLY:HA3	29:BF:191:ARG:HE	1.37	0.89
30:BG:61:ALA:HB2	30:BG:67:LYS:CB	2.01	0.89
36:BO:23:PRO:CB	36:BO:29:LYS:H	1.84	0.89
37:BP:26:TYR:HD1	37:BP:27:VAL:H	1.01	0.89
41:BT:55:ARG:HB3	41:BT:58:ARG:HE	1.35	0.89
41:BT:93:LYS:N	42:BU:10:LYS:HZ2	1.69	0.89
43:BV:13:SER:O	43:BV:17:VAL:HG13	1.73	0.89
43:BV:36:LEU:HD21	43:BV:47:VAL:HB	1.55	0.89
24:BA:2120:G:H21	26:BC:167:LYS:NZ	1.68	0.89
24:BA:2171:A:H4'	24:BA:2172:U:OP1	1.73	0.89
26:BC:33:ALA:O	26:BC:39:GLU:HB2	1.72	0.89
1:AA:266:G:H8	19:AT:67:LYS:HZ3	0.92	0.89
1:AA:468:A:H4'	18:AS:82:GLN:HB3	1.53	0.89
1:AA:789:U:C6	1:AA:790:A:H5''	2.07	0.89
5:AF:11:ARG:HD3	5:AF:15:THR:HG23	1.53	0.89
9:AJ:135:VAL:O	9:AJ:138:LYS:HB3	1.71	0.89
22:AW:72:LEU:HD13	22:AW:77:ALA:HB2	1.54	0.89
24:BA:95:G:H4'	48:B1:39:LEU:O	1.72	0.89
50:B3:29:PRO:HG2	50:B3:31:ILE:HG23	1.54	0.89
52:B5:7:ILE:C	52:B5:9:LEU:H	1.69	0.89
24:BA:1179:C:O2'	24:BA:1180:C:H6	1.56	0.89
24:BA:1471:A:H62	24:BA:1519:G:N2	1.70	0.89
24:BA:1492:G:N2	24:BA:1499:C:C4	2.41	0.89
24:BA:2832:U:C1'	24:BA:2834:G:H21	1.86	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:594:U:H2'	24:BA:595:C:C5	2.06	0.89
24:BA:636:G:H22	36:BO:75:ILE:CD1	1.83	0.89
28:BE:7:VAL:HG11	28:BE:196:VAL:HG23	1.52	0.89
34:BM:4:TYR:CB	41:BT:64:ARG:HH12	1.84	0.89
34:BM:54:VAL:HG12	34:BM:122:VAL:HB	1.52	0.89
38:BQ:87:TYR:OH	38:BQ:116:LEU:HB2	1.71	0.89
38:BQ:55:ALA:HB2	38:BQ:79:LEU:HD11	1.55	0.89
45:BX:28:LYS:N	45:BX:28:LYS:HE2	1.88	0.89
6:AG:20:TYR:HD1	6:AG:21:LEU:H	1.08	0.89
11:AL:74:ILE:HA	11:AL:77:ILE:HD12	1.51	0.89
18:AS:39:TYR:CZ	18:AS:41:PRO:HG3	2.08	0.89
24:BA:1443:G:C2	24:BA:1444:G:H1'	2.07	0.89
24:BA:1454:U:H5'	24:BA:1455:G:OP2	1.72	0.89
24:BA:1954:G:C2	24:BA:2551:C:H5''	2.08	0.89
24:BA:2311:A:H3'	24:BA:2312:U:H5	1.35	0.89
24:BA:2597:G:C4'	27:BD:242:ARG:HE	1.85	0.89
24:BA:2665:A:H8	24:BA:2665:A:H3'	1.36	0.89
24:BA:310:A:H2'	24:BA:312:G:N7	1.87	0.89
31:BH:43:VAL:HG22	31:BH:52:VAL:CA	2.03	0.89
35:BN:96:THR:HG22	35:BN:97:ARG:N	1.86	0.89
37:BP:39:PRO:HG3	37:BP:127:ILE:HG12	1.54	0.89
40:BS:30:VAL:HG23	40:BS:90:GLN:HA	1.54	0.89
43:BV:5:ALA:HB3	43:BV:105:VAL:O	1.70	0.89
24:BA:751:A:H5'	43:BV:90:ARG:NH2	1.88	0.89
45:BX:95:LYS:HG3	45:BX:103:GLY:CA	2.02	0.89
4:AE:219:VAL:HG12	4:AE:223:ILE:CD1	2.03	0.89
10:AK:51:VAL:HG21	10:AK:60:ARG:HH21	1.37	0.89
52:B5:20:ASN:HD21	52:B5:43:CYS:N	1.70	0.89
24:BA:1981:A:H5''	24:BA:1982:C:OP2	1.71	0.89
24:BA:2286:A:N6	52:B5:29:ASN:O	2.05	0.89
24:BA:2852:G:H2'	24:BA:2853:C:C6	2.08	0.89
24:BA:1813:G:H4'	27:BD:46:GLN:HB2	1.50	0.89
28:BE:117:MET:CG	28:BE:136:ARG:HE	1.84	0.89
29:BF:9:ILE:HG12	29:BF:124:LEU:HB2	1.52	0.89
30:BG:7:LEU:HD22	30:BG:11:TYR:HE1	1.38	0.89
31:BH:6:ARG:NH1	31:BH:6:ARG:HA	1.88	0.89
33:BL:27:LEU:HD11	33:BL:57:ILE:HD11	1.53	0.89
39:BR:8:GLU:O	39:BR:9:ARG:C	2.11	0.89
43:BV:16:LYS:CD	43:BV:16:LYS:H	1.84	0.89
44:BW:85:PRO:CG	44:BW:87:GLN:HG2	2.01	0.89
1:AA:1261:A:H61	1:AA:1274:G:C1'	1.85	0.89
1:AA:1238:A:H62	1:AA:1301:U:H3	1.21	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:429:U:H4'	1:AA:430:A:O5'	1.71	0.89
4:AE:69:LEU:HD13	4:AE:92:TYR:HA	1.53	0.89
6:AG:91:SER:HA	6:AG:94:LEU:HD12	1.53	0.89
7:AH:43:LEU:HD23	7:AH:44:GLY:N	1.88	0.89
24:BA:1198:U:H2'	24:BA:1199:U:C5	2.07	0.89
24:BA:1530:G:H2'	24:BA:1531:C:C6	2.06	0.89
24:BA:1992:G:H1'	24:BA:1993:U:C5	2.07	0.89
24:BA:1996:C:H5''	24:BA:1996:C:C6	2.08	0.89
24:BA:2468:G:H3'	24:BA:2476:A:C2	2.08	0.89
24:BA:2602:A:O2'	24:BA:2603:G:OP2	1.90	0.89
24:BA:2791:C:H2'	24:BA:2792:G:H8	1.38	0.89
24:BA:792:G:N2	24:BA:2072:G:H1'	1.88	0.89
24:BA:951:C:O2'	24:BA:952:G:H5'	1.73	0.89
30:BG:59:GLU:OE1	30:BG:152:LEU:HD22	1.72	0.89
31:BH:45:VAL:HG22	31:BH:50:VAL:HG13	1.55	0.89
35:BN:77:ILE:HG23	40:BS:75:ILE:HD12	1.54	0.89
42:BU:49:THR:HG22	42:BU:50:PRO:HD2	1.53	0.89
43:BV:69:LEU:HD12	43:BV:109:GLU:OE1	1.72	0.89
46:BY:151:HIS:CB	46:BY:170:THR:H	1.86	0.89
1:AA:108:G:H5''	1:AA:109:A:H5''	1.51	0.89
1:AA:1111:A:H2'	1:AA:1112:C:C6	2.07	0.89
1:AA:1188:A:H5'	12:AM:61:GLU:OE2	1.73	0.89
1:AA:322:C:O2'	1:AA:323:U:H5'	1.73	0.89
1:AA:571:U:H3'	1:AA:572:A:C5'	1.99	0.89
6:AG:20:TYR:O	6:AG:22:LYS:N	2.05	0.89
17:AR:7:GLU:HA	17:AR:10:LYS:HD3	1.54	0.89
52:B5:16:CYS:HB3	52:B5:49:HIS:ND1	1.87	0.89
24:BA:1793:C:N4	24:BA:1825:A:H61	1.71	0.89
24:BA:2286:A:H62	52:B5:32:ASN:N	1.70	0.89
24:BA:2393:A:OP2	54:B7:32:LEU:HD11	1.72	0.89
24:BA:2581:G:H1	24:BA:2610:C:H6	1.20	0.89
24:BA:2788:C:H4'	24:BA:2810:A:H5'	1.54	0.89
24:BA:70:G:H4'	24:BA:71:A:C5'	2.02	0.89
24:BA:988:A:H62	49:B2:13:ILE:CG1	1.86	0.89
28:BE:44:TYR:HB3	28:BE:82:ARG:NH1	1.88	0.89
33:BL:115:LEU:HD21	33:BL:126:MET:SD	2.13	0.89
37:BP:45:GLN:O	37:BP:48:GLU:HG2	1.73	0.89
41:BT:74:LEU:HD22	41:BT:78:THR:HG21	1.52	0.89
46:BY:48:PHE:HD2	46:BY:54:HIS:HE2	1.21	0.89
3:AD:22:G:H2'	3:AD:23:A:C8	2.08	0.89
1:AA:1158:C:C4	1:AA:1160:G:H1'	2.07	0.88
4:AE:56:ARG:HH11	4:AE:56:ARG:HB3	1.34	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:97:TRP:HZ2	4:AE:102:LEU:HD13	1.38	0.88
6:AG:20:TYR:N	6:AG:33:MET:SD	2.47	0.88
8:AI:76:ALA:HB1	8:AI:80:ARG:NH1	1.87	0.88
10:AK:86:ILE:CG2	10:AK:133:LEU:HB2	2.04	0.88
16:AQ:45:ARG:NH1	16:AQ:45:ARG:HB2	1.86	0.88
48:B1:20:VAL:O	48:B1:24:LYS:HG3	1.73	0.88
24:BA:1443:G:N2	24:BA:1444:G:H1'	1.87	0.88
24:BA:1935:G:O2'	24:BA:1937:A:H2	1.56	0.88
24:BA:1943:U:N1	24:BA:1945:G:H5''	1.87	0.88
24:BA:966:G:C1'	24:BA:2267:A:N6	2.36	0.88
24:BA:481:G:H1	24:BA:509:C:H42	1.21	0.88
24:BA:1817:G:P	27:BD:88:ARG:HH12	1.96	0.88
29:BF:156:LEU:HD12	29:BF:167:ALA:CB	2.03	0.88
30:BG:8:LYS:NZ	30:BG:103:LEU:HG	1.87	0.88
30:BG:181:ARG:H	30:BG:181:ARG:HD2	1.38	0.88
31:BH:155:SER:HB2	31:BH:158:HIS:O	1.73	0.88
24:BA:662:G:H4'	36:BO:18:ARG:N	1.88	0.88
41:BT:67:ALA:HB1	41:BT:71:GLN:HE22	1.37	0.88
42:BU:6:LYS:HE2	42:BU:10:LYS:O	1.73	0.88
24:BA:748:G:H5'	43:BV:88:ARG:NH1	1.88	0.88
32:BK:83:ALA:HA	32:BK:89:TYR:CE1	2.08	0.88
26:BC:30:LYS:NZ	26:BC:182:PRO:HD3	1.88	0.88
1:AA:287:U:H2'	1:AA:287:U:O2	1.74	0.88
1:AA:61:G:H2'	1:AA:62:U:C6	2.08	0.88
1:AA:633:G:H2'	1:AA:634:C:H6	1.34	0.88
4:AE:39:ILE:HG23	4:AE:41:ILE:HD11	1.55	0.88
14:AO:86:ARG:NH1	14:AO:119:LYS:HG3	1.88	0.88
20:AU:58:LEU:HD22	20:AU:62:GLU:HG3	1.56	0.88
54:B7:38:GLY:O	54:B7:40:GLU:N	2.06	0.88
24:BA:1725:G:N2	24:BA:1726:G:C1'	2.36	0.88
24:BA:223:A:N1	24:BA:407:G:O2'	2.06	0.88
24:BA:554:U:H2'	24:BA:556:G:N7	1.87	0.88
24:BA:988:A:H4'	24:BA:1155:A:H2	1.36	0.88
28:BE:5:LEU:HD21	28:BE:196:VAL:HB	1.55	0.88
30:BG:116:ASP:HB3	30:BG:118:ARG:HH21	1.37	0.88
24:BA:670:A:H2'	36:BO:41:ARG:CZ	2.03	0.88
40:BS:21:GLU:O	40:BS:23:ARG:HD3	1.72	0.88
46:BY:6:LYS:HG2	46:BY:7:ALA:N	1.86	0.88
26:BC:91:ALA:HB2	26:BC:153:ILE:HG21	1.53	0.88
1:AA:1028:C:H2'	1:AA:1028(A):C:C6	2.08	0.88
1:AA:1066:C:H3'	1:AA:1067:A:C8	2.08	0.88
1:AA:1425:U:H2'	1:AA:1426:C:C6	2.08	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:650:G:O2'	1:AA:651:C:H5'	1.74	0.88
5:AF:38:ARG:HB2	5:AF:94:LEU:HD11	1.52	0.88
5:AF:83:ARG:HG3	5:AF:87:LEU:HD11	1.55	0.88
8:AI:81:ILE:HG22	8:AI:82:ARG:N	1.87	0.88
12:AM:79:ARG:HH22	12:AM:82:ILE:HD12	1.37	0.88
1:AA:1228:C:H4'	15:AP:116:THR:HA	1.52	0.88
50:B3:5:ILE:HD13	50:B3:60:GLN:HE22	1.39	0.88
24:BA:1312:U:H2'	24:BA:1313:U:C6	2.07	0.88
24:BA:1326:U:C2'	24:BA:1327:C:H5'	2.03	0.88
24:BA:1672:C:H3'	24:BA:1673:U:H5''	1.56	0.88
24:BA:228:A:H2'	24:BA:229:A:H5'	1.55	0.88
24:BA:848:G:H2'	24:BA:849:A:C8	2.08	0.88
24:BA:2636:U:H4'	28:BE:79:ARG:HD3	1.55	0.88
29:BF:201:VAL:HG12	29:BF:205:ARG:HE	1.36	0.88
29:BF:66:PRO:O	29:BF:68:LYS:N	2.06	0.88
37:BP:42:ILE:HD13	37:BP:43:THR:N	1.88	0.88
38:BQ:97:VAL:HA	38:BQ:114:VAL:HG13	1.55	0.88
32:BK:77:LEU:N	32:BK:77:LEU:HD23	1.89	0.88
24:BA:924:C:H2'	24:BA:925:C:H6	1.38	0.88
1:AA:256:U:H2'	1:AA:257:G:O4'	1.73	0.88
1:AA:414:A:H2'	1:AA:415:A:H8	1.37	0.88
1:AA:576:G:N7	1:AA:881:G:H1'	1.89	0.88
5:AF:108:ASN:ND2	5:AF:110:ASN:HB2	1.87	0.88
24:BA:1376:C:H2'	24:BA:1377:G:O4'	1.73	0.88
24:BA:2346:A:H4'	24:BA:2383:G:H5''	1.56	0.88
24:BA:569:U:H5'	24:BA:946:G:H1'	1.51	0.88
24:BA:70:G:H5''	24:BA:71:A:OP1	1.73	0.88
27:BD:111:LEU:HB3	27:BD:115:GLN:HE22	1.37	0.88
27:BD:117:VAL:HG13	27:BD:129:ASN:OD1	1.71	0.88
28:BE:165:VAL:HG12	28:BE:166:THR:H	1.39	0.88
31:BH:28:GLY:HA3	31:BH:79:VAL:HB	1.56	0.88
33:BL:23:VAL:HG12	33:BL:34:ILE:HA	1.53	0.88
35:BN:52:VAL:HG22	35:BN:53:LYS:N	1.86	0.88
40:BS:15:VAL:HG13	40:BS:81:PRO:HB3	1.54	0.88
44:BW:54:VAL:HG22	44:BW:81:VAL:HG23	1.55	0.88
45:BX:52:SER:HB3	45:BX:56:PRO:CB	2.03	0.88
46:BY:118:GLN:HE21	46:BY:120:ILE:HG23	1.38	0.88
32:BK:114:LEU:HA	32:BK:130:TYR:HB3	1.53	0.88
4:AE:186:ALA:O	4:AE:201:ILE:HB	1.74	0.88
5:AF:53:ALA:HB2	5:AF:115:LEU:HD21	1.56	0.88
6:AG:13:ARG:HH21	6:AG:40:PRO:HA	1.39	0.88
10:AK:12:ARG:HD3	10:AK:26:VAL:CG2	2.04	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AL:26:VAL:O	11:AL:32:ASP:HA	1.72	0.88
24:BA:1206:G:H3'	24:BA:1206:G:C8	2.07	0.88
24:BA:1996:C:C5'	24:BA:1996:C:H6	1.86	0.88
24:BA:2298:A:H2'	24:BA:2299:G:O4'	1.73	0.88
24:BA:2864:G:H2'	24:BA:2865:U:C6	2.09	0.88
24:BA:612:G:N2	24:BA:617:G:O6	2.06	0.88
24:BA:728:G:N1	24:BA:762:U:H3'	1.88	0.88
25:BB:116:G:C4	25:BB:117:G:H1'	2.07	0.88
36:BO:13:ASN:HD22	36:BO:14:LYS:N	1.71	0.88
37:BP:42:ILE:HD12	37:BP:47:ILE:CG1	2.03	0.88
37:BP:78:PRO:O	37:BP:79:LEU:HD23	1.73	0.88
41:BT:50:ARG:HB2	41:BT:50:ARG:HH11	1.39	0.88
43:BV:25:ARG:HH21	43:BV:74:ALA:H	0.88	0.88
45:BX:2:ARG:HH21	45:BX:4:LYS:HB2	1.37	0.88
24:BA:2162:G:H2'	24:BA:2163:C:H5'	1.55	0.88
1:AA:1346:A:C2	9:AJ:10:ARG:HD3	2.08	0.88
1:AA:1404:C:H1'	1:AA:1499:A:C2	2.08	0.88
1:AA:573:A:H2'	1:AA:574:A:C8	2.07	0.88
1:AA:979:C:H42	16:AQ:18:VAL:HB	1.39	0.88
5:AF:67:THR:HA	5:AF:102:ASN:HB2	1.56	0.88
6:AG:11:LEU:HA	6:AG:14:ARG:HB3	1.53	0.88
7:AH:147:ASP:HA	7:AH:150:ARG:HB2	1.56	0.88
18:AS:3:LYS:HE2	18:AS:24:ALA:HB2	1.52	0.88
49:B2:10:LYS:HZ3	49:B2:12:PRO:CG	1.85	0.88
49:B2:9:VAL:HG13	49:B2:54:VAL:HA	1.56	0.88
50:B3:8:LYS:HG2	50:B3:9:LEU:H	1.38	0.88
55:B8:11:CYS:HB3	55:B8:32:HIS:NE2	1.87	0.88
24:BA:1303:G:N2	24:BA:1626:G:O2'	2.04	0.88
24:BA:2218:G:H4'	27:BD:186:HIS:CE1	2.09	0.88
24:BA:2551:C:H2'	24:BA:2552:U:H6	1.39	0.88
24:BA:2681:C:N4	24:BA:2725:A:H62	1.71	0.88
24:BA:780:G:H2'	24:BA:782:A:N7	1.89	0.88
24:BA:898:C:H3'	24:BA:899:A:H5''	1.55	0.88
24:BA:914:C:H3'	24:BA:914:C:C6	2.09	0.88
24:BA:919:G:H2'	24:BA:920:G:H8	1.39	0.88
27:BD:161:THR:HG23	27:BD:195:ALA:HB1	1.55	0.88
27:BD:234:GLY:H	27:BD:241:PRO:HG2	1.38	0.88
28:BE:12:THR:HG23	28:BE:21:VAL:HB	1.56	0.88
28:BE:23:VAL:HG23	28:BE:184:VAL:HG23	1.56	0.88
31:BH:43:VAL:CG2	31:BH:52:VAL:HA	2.02	0.88
34:BM:57:ALA:HB3	34:BM:124:ALA:HA	1.53	0.88
37:BP:33:GLY:O	37:BP:131:ILE:HG23	1.73	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BT:114:LYS:HG2	41:BT:115:ALA:H	1.39	0.88
41:BT:13:LYS:HD2	41:BT:13:LYS:N	1.80	0.88
24:BA:997:G:H5''	41:BT:92:ARG:HH11	1.37	0.88
43:BV:11:ARG:NH2	43:BV:11:ARG:HB3	1.88	0.88
46:BY:104:PHE:CZ	46:BY:120:ILE:HG22	2.08	0.88
46:BY:68:PRO:O	46:BY:90:VAL:HA	1.73	0.88
47:BZ:5:LYS:HG2	47:BZ:6:GLY:N	1.89	0.88
3:AD:9:A:H62	3:AD:23:A:H62	1.16	0.88
26:BC:18:LYS:HG2	26:BC:20:TYR:H	1.38	0.88
1:AA:279:A:H1'	1:AA:281:G:C2	2.08	0.88
1:AA:64:G:H4'	1:AA:65:U:C5'	2.02	0.88
4:AE:146:GLN:NE2	4:AE:150:SER:HB2	1.89	0.88
12:AM:50:ILE:HB	16:AQ:41:ARG:NE	1.88	0.88
17:AR:28:GLN:O	17:AR:32:LEU:HD23	1.72	0.88
19:AT:43:LEU:C	19:AT:43:LEU:HD13	1.94	0.88
53:B6:33:ARG:HG2	53:B6:37:LYS:HD3	1.53	0.88
53:B6:33:ARG:O	53:B6:37:LYS:HB2	1.73	0.88
24:BA:1153:C:C2	24:BA:1154:G:N7	2.42	0.88
24:BA:1344:G:H4'	24:BA:1384:A:N1	1.86	0.88
24:BA:1824:G:H21	27:BD:253:GLN:HG2	1.38	0.88
24:BA:1971:A:N3	27:BD:240:ALA:N	2.20	0.88
24:BA:2287:A:N7	24:BA:2289:G:C5	2.42	0.88
24:BA:2533:A:H5''	24:BA:2665:A:H5'	1.56	0.88
24:BA:2507:C:C5'	24:BA:2573:C:H41	1.87	0.88
24:BA:387:U:OP2	50:B3:31:ILE:HG21	1.73	0.88
24:BA:76:C:H2'	24:BA:77:C:H5'	1.55	0.88
30:BG:47:LYS:HE2	30:BG:73:ALA:HB3	1.55	0.88
34:BM:73:THR:HB	34:BM:75:TYR:HE1	1.36	0.88
36:BO:81:GLN:HG2	36:BO:86:LYS:HE3	1.56	0.88
45:BX:64:GLU:OE2	45:BX:64:GLU:HA	1.74	0.88
45:BX:65:ALA:HB3	45:BX:66:PRO:HD3	1.55	0.88
1:AA:1338:G:H2'	1:AA:1339:A:C8	2.08	0.88
5:AF:38:ARG:HB2	5:AF:94:LEU:HD21	1.55	0.88
1:AA:7:G:N2	7:AH:121:LYS:HG3	1.88	0.88
7:AH:144:THR:HG22	7:AH:146:ALA:N	1.88	0.88
7:AH:43:LEU:H	7:AH:65:ASN:ND2	1.72	0.88
1:AA:942:G:H21	11:AL:124:GLN:NE2	1.71	0.88
16:AQ:58:LYS:HD3	16:AQ:59:ALA:H	1.33	0.88
24:BA:2443:C:H2'	24:BA:2444:G:H8	1.36	0.88
24:BA:592:G:H5'	24:BA:593:G:OP2	1.74	0.88
24:BA:1814:G:OP1	27:BD:43:ARG:HB2	1.73	0.88
28:BE:100:GLU:H	28:BE:172:VAL:CG2	1.86	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BO:113:LYS:NZ	36:BO:115:LEU:HD12	1.88	0.88
36:BO:55:ARG:HH21	36:BO:55:ARG:CB	1.87	0.88
37:BP:25:ASP:HB3	37:BP:102:VAL:HG12	1.54	0.88
38:BQ:77:ARG:CB	38:BQ:77:ARG:HH11	1.84	0.88
39:BR:13:ARG:HD3	39:BR:90:GLY:O	1.72	0.88
41:BT:28:ARG:HB2	41:BT:38:THR:HG21	1.52	0.88
4:AE:135:GLN:C	4:AE:139:LYS:HZ2	1.76	0.88
4:AE:15:VAL:HG22	4:AE:209:ARG:NE	1.88	0.88
6:AG:78:LEU:HD22	6:AG:96:LEU:HD13	1.56	0.88
15:AP:23:TYR:O	15:AP:66:LEU:HD12	1.74	0.88
18:AS:20:VAL:HG13	18:AS:34:GLU:O	1.74	0.88
19:AT:86:GLU:OE2	19:AT:89:LEU:HD12	1.74	0.88
24:BA:242:G:H8	54:B7:4:MET:CG	1.86	0.88
54:B7:50:LEU:HD23	54:B7:51:ALA:N	1.89	0.88
24:BA:1954:G:O2'	24:BA:1955:U:H5'	1.74	0.88
24:BA:2020:A:H2'	24:BA:2021:C:H5''	1.53	0.88
24:BA:2227:A:C1'	27:BD:262:ARG:HD2	2.03	0.88
24:BA:2244:U:H1'	24:BA:2434:A:C6	2.09	0.88
24:BA:197:A:N6	24:BA:248:G:N2	2.21	0.88
24:BA:613:U:H5'	24:BA:614:U:C5	2.08	0.88
24:BA:669:G:N3	24:BA:669:G:H2'	1.85	0.88
27:BD:17:THR:O	27:BD:19:ALA:N	2.07	0.88
28:BE:133:LYS:HB3	28:BE:137:HIS:CE1	2.08	0.88
28:BE:36:ARG:HG3	28:BE:79:ARG:NH1	1.89	0.88
35:BN:7:TYR:CA	35:BN:18:LYS:HE3	2.04	0.88
35:BN:79:PHE:HB2	40:BS:73:GLU:CG	2.04	0.88
42:BU:41:GLY:HA2	42:BU:51:VAL:HG22	1.55	0.88
32:BK:79:ILE:O	32:BK:144:VAL:HA	1.72	0.88
1:AA:27:G:N2	1:AA:557:G:H1'	1.89	0.88
1:AA:496:A:H4'	1:AA:497:U:OP1	1.74	0.88
1:AA:533:A:H2'	1:AA:535:A:OP2	1.74	0.88
1:AA:545:C:O2'	1:AA:546:G:H5'	1.74	0.88
3:AC:40:C:H2'	3:AC:41:C:C5'	2.04	0.88
4:AE:115:LEU:HD13	4:AE:145:LEU:HB3	1.56	0.88
9:AJ:63:LYS:HE2	9:AJ:63:LYS:HA	1.54	0.88
49:B2:10:LYS:HE2	49:B2:31:LEU:HD21	1.55	0.88
24:BA:1024:G:C5	24:BA:1025:G:C8	2.62	0.88
24:BA:1143:A:H2'	24:BA:1144:G:C8	2.09	0.88
24:BA:1359:A:H2'	24:BA:1360:A:H5'	1.56	0.88
24:BA:1470:G:N2	24:BA:1522:G:H1	1.72	0.88
24:BA:1782:C:H42	24:BA:2587:A:N6	1.72	0.88
24:BA:2329:G:H22	24:BA:2386:C:H42	1.20	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2468:G:H22	24:BA:2481:G:H2'	1.37	0.88
24:BA:2583:G:H2'	24:BA:2584:U:C2	2.09	0.88
24:BA:612:G:H4'	24:BA:616:A:C6	2.09	0.88
29:BF:106:ARG:HG3	29:BF:107:LYS:N	1.87	0.88
29:BF:110:LEU:CA	29:BF:183:VAL:HG22	2.03	0.88
34:BM:115:ARG:O	34:BM:118:LYS:HB2	1.74	0.88
34:BM:97:ARG:HA	34:BM:100:GLU:CG	2.03	0.88
46:BY:10:ARG:CZ	46:BY:36:LYS:H	1.86	0.88
46:BY:57:ILE:CG2	46:BY:58:VAL:N	2.37	0.88
24:BA:2331:G:O3'	47:BZ:43:THR:HB	1.73	0.88
1:AA:1346:A:H4'	1:AA:1347:G:O5'	1.72	0.87
1:AA:21:G:H2'	1:AA:22:G:H8	1.38	0.87
1:AA:448:A:H2'	1:AA:449:C:H6	1.39	0.87
1:AA:655:A:H2'	1:AA:656:C:C6	2.09	0.87
4:AE:42:ILE:HG12	4:AE:43:ASP:H	1.38	0.87
7:AH:102:ALA:HB2	7:AH:120:THR:HG22	1.54	0.87
7:AH:121:LYS:NZ	7:AH:122:GLU:N	2.19	0.87
10:AK:14:ARG:O	10:AK:17:THR:HB	1.73	0.87
10:AK:6:ILE:HG23	10:AK:7:ALA:N	1.86	0.87
1:AA:1244:C:OP2	23:AX:9:ARG:HD3	1.74	0.87
24:BA:1144:G:H2'	24:BA:1145:C:H6	1.38	0.87
24:BA:1775:U:C6	27:BD:208:LYS:HD2	2.09	0.87
24:BA:1901:A:H4'	27:BD:244:ARG:HH12	1.40	0.87
24:BA:2207:C:H3'	24:BA:2208:U:H5''	1.56	0.87
24:BA:2432:A:H2	50:B3:30:GLU:HA	1.39	0.87
24:BA:2522:U:O2'	24:BA:2647:U:OP1	1.92	0.87
24:BA:2755:C:HO2'	24:BA:2756:U:H6	0.88	0.87
24:BA:292:C:H3'	24:BA:293:U:N3	1.89	0.87
25:BB:75:G:H4'	46:BY:36:LYS:HE2	1.57	0.87
25:BB:97:G:H2'	25:BB:98:G:H5'	1.55	0.87
28:BE:49:LEU:HG	28:BE:74:PRO:CG	2.04	0.87
28:BE:53:PRO:HG3	28:BE:75:VAL:HG22	1.54	0.87
29:BF:5:ALA:C	29:BF:20:LEU:HD13	1.93	0.87
30:BG:16:ARG:HD2	30:BG:20:ILE:HG13	1.54	0.87
37:BP:101:ARG:HG3	37:BP:101:ARG:HH11	1.39	0.87
40:BS:39:ARG:HG3	40:BS:42:ILE:HD12	1.57	0.87
40:BS:28:VAL:O	40:BS:52:ILE:HG13	1.74	0.87
41:BT:108:GLU:OE1	41:BT:109:LEU:HG	1.73	0.87
41:BT:40:PHE:HB3	42:BU:78:LYS:HD2	1.56	0.87
44:BW:21:PHE:HE2	44:BW:27:THR:H	1.19	0.87
45:BX:71:LYS:HD2	45:BX:71:LYS:H	1.38	0.87
1:AA:1137:C:H4'	1:AA:1138:G:N2	1.89	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:598:U:H4'	10:AK:94:TYR:HD2	1.37	0.87
1:AA:787:A:H2'	1:AA:788:U:H5'	1.54	0.87
14:AO:117:ARG:HH11	14:AO:117:ARG:HG3	1.37	0.87
18:AS:6:LEU:HD23	18:AS:17:TYR:HD2	1.37	0.87
22:AW:72:LEU:HD22	22:AW:77:ALA:N	1.89	0.87
48:B1:27:LEU:HD13	48:B1:52:ILE:HD11	1.56	0.87
24:BA:2357:U:H2'	24:BA:2358:G:H5''	1.55	0.87
24:BA:350:U:O2	24:BA:350:U:H2'	1.72	0.87
24:BA:647:G:H2'	24:BA:648:G:C8	2.09	0.87
24:BA:704:G:H21	24:BA:725:G:N2	1.72	0.87
30:BG:101:ILE:O	30:BG:104:GLU:HB3	1.73	0.87
36:BO:105:LEU:O	36:BO:106:LEU:HG	1.75	0.87
25:BB:51:G:C5'	39:BR:60:GLY:HA2	2.05	0.87
47:BZ:12:ASN:HA	47:BZ:14:ARG:NH2	1.89	0.87
47:BZ:38:VAL:HB	47:BZ:59:LEU:HD12	1.56	0.87
1:AA:118:U:O4	1:AA:288:A:H2'	1.74	0.87
1:AA:1263:C:H2'	1:AA:1264:C:C6	2.09	0.87
1:AA:611:A:H61	1:AA:629:G:H1	0.88	0.87
3:AC:20:U:O2	3:AC:20:U:H2'	1.72	0.87
3:AC:75:C:OP1	24:BA:2602:A:H5'	1.75	0.87
4:AE:20:GLU:CD	4:AE:189:ASP:OD2	2.13	0.87
4:AE:212:GLN:HB3	4:AE:235:SER:OG	1.74	0.87
7:AH:89:ILE:HG12	7:AH:131:ILE:CD1	2.03	0.87
15:AP:52:GLU:HA	15:AP:55:ARG:CD	2.04	0.87
54:B7:5:LYS:HB2	54:B7:60:LEU:HA	1.55	0.87
55:B8:2:LYS:O	55:B8:3:VAL:HG23	1.74	0.87
24:BA:1814:G:H2'	24:BA:1815:A:C8	2.09	0.87
24:BA:231:C:N4	24:BA:232:G:N2	2.21	0.87
24:BA:2781:A:H3'	24:BA:2781:A:C8	2.08	0.87
27:BD:145:VAL:HG13	27:BD:191:ALA:HB2	1.56	0.87
24:BA:2210:G:C8	27:BD:68:LYS:HD3	2.10	0.87
31:BH:125:VAL:HA	31:BH:131:VAL:CG2	2.05	0.87
35:BN:59:LYS:HB2	35:BN:84:ALA:O	1.73	0.87
37:BP:106:VAL:CG2	37:BP:107:ALA:H	1.83	0.87
40:BS:6:LEU:HD23	40:BS:7:ILE:H	1.39	0.87
46:BY:78:LYS:HZ2	46:BY:78:LYS:HB3	1.38	0.87
1:AA:1274:G:N2	1:AA:1275:A:H62	1.71	0.87
1:AA:770:C:C1'	1:AA:900:A:H2	1.87	0.87
4:AE:71:VAL:HG13	4:AE:93:VAL:O	1.71	0.87
6:AG:191:ARG:NH2	6:AG:194:LEU:O	2.07	0.87
9:AJ:115:ARG:HB2	9:AJ:118:VAL:CG2	2.04	0.87
10:AK:46:LYS:NZ	10:AK:64:LYS:HA	1.88	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AP:67:GLU:CD	15:AP:68:GLY:H	1.77	0.87
48:B1:27:LEU:HA	48:B1:30:LEU:CG	2.05	0.87
24:BA:1044:G:H2'	24:BA:1111:A:N3	1.90	0.87
24:BA:1255:U:H5'	24:BA:1256:G:O5'	1.72	0.87
24:BA:2296:U:H3'	24:BA:2296:U:H6	1.39	0.87
24:BA:242:G:H8	54:B7:4:MET:HG3	1.37	0.87
24:BA:2748:A:N3	31:BH:67:LEU:CD2	2.38	0.87
24:BA:292:C:H2'	24:BA:293:U:O2	1.75	0.87
24:BA:298:G:H8	24:BA:298:G:O5'	1.58	0.87
24:BA:832:G:H2'	24:BA:833:U:C5	2.09	0.87
25:BB:55:U:O2'	25:BB:56:G:H5'	1.74	0.87
24:BA:606:U:OP1	29:BF:103:LYS:N	2.06	0.87
29:BF:65:TRP:HE1	29:BF:73:ALA:HB3	1.35	0.87
30:BG:53:LEU:HG	30:BG:72:ARG:CD	2.04	0.87
37:BP:74:TYR:CZ	37:BP:94:VAL:HG22	2.09	0.87
45:BX:26:LYS:HB2	45:BX:38:ILE:HD11	1.55	0.87
46:BY:151:HIS:HB3	46:BY:170:THR:N	1.89	0.87
32:BK:94:ALA:HA	32:BK:97:ILE:HG13	1.57	0.87
24:BA:1585:C:H5''	24:BA:1586:A:OP1	1.73	0.87
44:BW:19:ALA:O	44:BW:22:ALA:HB3	1.74	0.87
2:A1:22:C:H2'	2:A1:23:A:C8	2.08	0.87
1:AA:1390:U:H2'	1:AA:1391:U:C6	2.08	0.87
1:AA:1413:A:O2'	1:AA:1414:U:H5'	1.74	0.87
1:AA:1417:G:H2'	1:AA:1482:G:H22	1.32	0.87
1:AA:938:A:O2'	1:AA:939:G:H5'	1.75	0.87
7:AH:50:GLU:O	7:AH:53:LEU:HB2	1.74	0.87
9:AJ:138:LYS:HE2	9:AJ:142:GLU:OE1	1.75	0.87
14:AO:71:PRO:HD2	14:AO:100:ILE:HG12	1.56	0.87
15:AP:48:LEU:HD21	15:AP:52:GLU:CB	2.05	0.87
17:AR:51:HIS:O	17:AR:54:ARG:HB3	1.74	0.87
20:AU:74:ARG:N	20:AU:79:LEU:HD21	1.89	0.87
50:B3:28:LYS:HE3	50:B3:29:PRO:HD2	1.56	0.87
54:B7:2:PRO:HB2	54:B7:4:MET:HE3	1.55	0.87
24:BA:1155:A:C2'	24:BA:1156:A:H5''	2.05	0.87
24:BA:51:G:H1'	24:BA:118:A:N6	1.89	0.87
24:BA:1241:A:C2	24:BA:1241:A:H5''	2.08	0.87
24:BA:1697:G:C3'	24:BA:1698:A:H5'	2.05	0.87
24:BA:2206:C:H2'	24:BA:2207:C:C6	2.09	0.87
24:BA:2514:U:H2'	24:BA:2515:C:C6	2.08	0.87
24:BA:1050:A:N6	24:BA:2751:G:C6	2.42	0.87
24:BA:2787:C:O5'	28:BE:64:LYS:HD2	1.74	0.87
24:BA:775:G:H4'	24:BA:777:A:C4	2.09	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:103:U:C2'	25:BB:104:A:H5'	2.04	0.87
27:BD:107:ALA:H	27:BD:108:PRO:HD3	1.39	0.87
27:BD:130:ALA:HA	27:BD:193:VAL:HG23	1.55	0.87
24:BA:2593:U:O4	27:BD:239:ARG:NH1	2.08	0.87
27:BD:37:LEU:CD2	27:BD:64:ILE:HG22	2.01	0.87
33:BL:134:MET:HE2	33:BL:136:VAL:HG23	1.54	0.87
34:BM:39:ARG:HB3	34:BM:48:MET:CG	2.05	0.87
37:BP:34:LEU:CB	37:BP:67:ARG:HH22	1.86	0.87
38:BQ:74:LYS:O	38:BQ:78:LYS:HB2	1.74	0.87
41:BT:93:LYS:HG2	42:BU:10:LYS:NZ	1.89	0.87
32:BK:77:LEU:HG	32:BK:141:LYS:O	1.75	0.87
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.09	0.87
1:AA:819:A:H5''	1:AA:820:U:OP2	1.74	0.87
4:AE:115:LEU:HD22	4:AE:149:LEU:HD13	1.56	0.87
4:AE:223:ILE:O	4:AE:226:ARG:HB3	1.74	0.87
6:AG:105:VAL:HG21	6:AG:121:VAL:CG2	2.03	0.87
9:AJ:69:VAL:CG2	9:AJ:104:LEU:HD11	2.04	0.87
10:AK:38:ILE:HG13	10:AK:118:VAL:CG1	2.03	0.87
10:AK:45:ILE:HD11	10:AK:48:TYR:HB3	1.55	0.87
11:AL:106:ALA:O	11:AL:107:ARG:HG3	1.75	0.87
24:BA:852:G:H5'	49:B2:45:GLY:HA3	1.54	0.87
55:B8:7:VAL:HB	55:B8:36:GLN:OE1	1.75	0.87
24:BA:1479:G:H2'	24:BA:1480:G:C8	2.09	0.87
24:BA:1479:G:H2'	24:BA:1480:G:H8	1.37	0.87
24:BA:1605:C:H2'	24:BA:1606:G:O4'	1.73	0.87
24:BA:263:C:H2'	24:BA:263:C:O2	1.74	0.87
24:BA:392:C:H2'	24:BA:393:C:H6	1.38	0.87
25:BB:89(A):A:H2'	25:BB:90:C:C5'	2.00	0.87
27:BD:134:ARG:C	27:BD:168:ARG:HH22	1.78	0.87
28:BE:100:GLU:O	28:BE:172:VAL:HG13	1.73	0.87
28:BE:147:PRO:HG2	28:BE:149:ARG:CD	2.04	0.87
28:BE:66:HIS:ND1	28:BE:67:PHE:N	2.23	0.87
30:BG:110:ALA:HB1	30:BG:139:LEU:HG	1.55	0.87
30:BG:57:ALA:C	30:BG:67:LYS:HB2	1.94	0.87
30:BG:75:LYS:O	30:BG:83:ARG:HA	1.75	0.87
33:BL:7:VAL:HG11	33:BL:67:PHE:CE1	2.10	0.87
35:BN:106:LEU:HD22	40:BS:39:ARG:NH1	1.90	0.87
36:BO:95:VAL:O	36:BO:97:PRO:HD2	1.74	0.87
24:BA:910:A:C6	37:BP:17:LEU:HD11	2.10	0.87
42:BU:67:GLY:O	42:BU:68:LYS:HB2	1.73	0.87
26:BC:119:VAL:O	26:BC:123:VAL:HG23	1.74	0.87
24:BA:2103:C:H2'	24:BA:2104:G:C8	2.08	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1509:C:O2'	1:AA:1510:U:H5'	1.73	0.87
3:AC:28:G:H2'	3:AC:29:G:C8	2.10	0.87
4:AE:213:LEU:HD22	4:AE:214:ILE:CD1	2.04	0.87
6:AG:31:CYS:O	6:AG:31:CYS:SG	2.32	0.87
6:AG:58:LEU:HD13	6:AG:59:ARG:HH11	1.38	0.87
8:AI:10:LEU:HD23	8:AI:10:LEU:N	1.89	0.87
14:AO:117:ARG:NH2	14:AO:124:LYS:HA	1.90	0.87
17:AR:29:VAL:HG21	17:AR:81:LEU:HD11	1.55	0.87
18:AS:9:PHE:CZ	18:AS:18:ARG:HG3	2.09	0.87
24:BA:1178:C:H2'	24:BA:1179:C:H6	1.37	0.87
24:BA:1179:C:O2'	24:BA:1180:C:O5'	1.93	0.87
24:BA:1956:U:H2'	24:BA:1957:C:H6	1.32	0.87
24:BA:2390:U:O2'	24:BA:2391:G:H5'	1.75	0.87
24:BA:370:G:C2	24:BA:424:G:N7	2.42	0.87
31:BH:25:LYS:HZ3	31:BH:32:GLU:HB2	1.38	0.87
32:BK:32:PRO:CG	32:BK:33:ARG:H	1.87	0.87
37:BP:8:LYS:HZ3	37:BP:11:LYS:NZ	1.73	0.87
39:BR:57:LYS:HZ2	39:BR:65:VAL:CA	1.87	0.87
43:BV:14:PRO:O	43:BV:17:VAL:HG22	1.73	0.87
43:BV:25:ARG:HD3	43:BV:74:ALA:HB3	1.55	0.87
43:BV:48:ALA:O	43:BV:51:LEU:HB2	1.75	0.87
45:BX:23:ARG:HD2	45:BX:39:VAL:HG22	1.56	0.87
1:AA:1313:U:C5	21:AV:4:SER:HB2	2.09	0.87
1:AA:1401:G:H2'	1:AA:1402:C:O4'	1.74	0.87
1:AA:1408:A:C2	1:AA:1495:U:H5	1.93	0.87
1:AA:735:C:H2'	1:AA:736:C:H6	1.37	0.87
1:AA:955:U:H1'	1:AA:1227:A:N6	1.90	0.87
5:AF:40:ARG:HA	5:AF:43:LEU:HD13	1.55	0.87
7:AH:109:ILE:CG2	7:AH:135:THR:HG21	2.04	0.87
10:AK:14:ARG:HA	10:AK:17:THR:OG1	1.72	0.87
15:AP:88:ARG:HG2	15:AP:98:VAL:CG1	2.05	0.87
19:AT:59:ILE:HD12	19:AT:72:ARG:O	1.74	0.87
24:BA:2886:G:O2'	51:B4:31:VAL:HB	1.73	0.87
52:B5:19:ARG:HH12	52:B5:41:PRO:CG	1.88	0.87
53:B6:43:THR:N	53:B6:44:PRO:HD2	1.89	0.87
54:B7:22:VAL:HG12	54:B7:23:VAL:N	1.89	0.87
24:BA:1176:G:H2'	24:BA:1177:A:H5'	1.56	0.87
24:BA:187:G:H2'	24:BA:1365:A:H2	1.38	0.87
24:BA:1786:A:O2'	24:BA:1787:A:H5'	1.75	0.87
24:BA:1838:C:H2'	24:BA:1898:U:C4	2.10	0.87
3:AB:75:C:O2	24:BA:2508:G:H5'	1.75	0.87
24:BA:2544:G:H2'	24:BA:2545:G:O4'	1.75	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:586:A:H5'	29:BF:89:VAL:CG2	2.02	0.87
24:BA:88:G:H5'	24:BA:89:G:OP2	1.75	0.87
25:BB:43:C:H6	25:BB:43:C:O5'	1.56	0.87
27:BD:252:TRP:H	27:BD:255:LYS:NZ	1.73	0.87
29:BF:41:LEU:O	29:BF:44:ARG:HG3	1.75	0.87
30:BG:75:LYS:CG	30:BG:84:LYS:HB2	2.05	0.87
25:BB:42:C:C2	30:BG:93:THR:HB	2.10	0.87
35:BN:19:ILE:O	35:BN:19:ILE:HD12	1.75	0.87
39:BR:62:LYS:C	39:BR:64:GLU:H	1.77	0.87
40:BS:51:ARG:C	40:BS:66:VAL:HG12	1.95	0.87
40:BS:65:LYS:HD3	40:BS:75:ILE:HD13	1.56	0.87
41:BT:65:ILE:CD1	41:BT:96:ALA:HB2	2.04	0.87
43:BV:74:ALA:CB	43:BV:105:VAL:HG23	2.04	0.87
37:BP:137:TYR:OH	46:BY:124:ILE:HD11	1.73	0.87
26:BC:6:ARG:HD2	26:BC:6:ARG:C	1.95	0.87
1:AA:1160:G:N3	1:AA:1160:G:H2'	1.89	0.87
1:AA:1399:C:N4	1:AA:1502:A:N7	2.22	0.87
1:AA:299:G:H2'	1:AA:300:A:N7	1.89	0.87
1:AA:713:G:H21	1:AA:777:A:C1'	1.88	0.87
1:AA:944:G:H21	1:AA:1339:A:N6	1.72	0.87
3:AC:60:U:H5'	3:AC:61:C:OP2	1.75	0.87
5:AF:156:ARG:HB3	5:AF:193:TYR:HD1	1.39	0.87
10:AK:37:ARG:HD2	10:AK:38:ILE:HD13	1.55	0.87
15:AP:97:PRO:CG	15:AP:103:THR:HG22	2.03	0.87
52:B5:50:ARG:CZ	52:B5:52:VAL:HG21	2.05	0.87
24:BA:1695:G:H2'	24:BA:1696:G:H5'	1.57	0.87
24:BA:1789:A:H3'	24:BA:1790:C:O4'	1.73	0.87
24:BA:2064:C:H1'	24:BA:2450:A:H62	1.37	0.87
24:BA:2213:U:O2	24:BA:2213:U:H3'	1.75	0.87
24:BA:2239:G:C3'	24:BA:2240:C:H5''	2.03	0.87
24:BA:450:G:H5''	24:BA:451:C:OP2	1.73	0.87
24:BA:28:A:H1'	24:BA:513:A:C2	2.09	0.87
24:BA:557:U:O2'	34:BM:112:LEU:HD11	1.74	0.87
24:BA:64:A:C2'	24:BA:65:C:H5'	2.05	0.87
24:BA:931:G:H3'	24:BA:932:G:O4'	1.74	0.87
25:BB:78:A:C5	25:BB:99:A:N6	2.43	0.87
27:BD:117:VAL:HG22	27:BD:126:GLN:HE21	1.40	0.87
24:BA:764:A:H1'	27:BD:214:TRP:CD1	2.10	0.87
27:BD:80:ALA:HB3	27:BD:94:LEU:O	1.73	0.87
31:BH:111:HIS:O	31:BH:113:VAL:HG23	1.73	0.87
34:BM:96:GLU:O	34:BM:100:GLU:HG2	1.73	0.87
35:BN:96:THR:O	35:BN:97:ARG:HB3	1.74	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:56:ARG:CZ	37:BP:57:HIS:HB2	2.05	0.87
42:BU:62:LEU:HB2	42:BU:64:HIS:CE1	2.10	0.87
46:BY:57:ILE:HG12	46:BY:70:LEU:CB	2.01	0.87
47:BZ:49:LYS:H	47:BZ:80:HIS:CE1	1.92	0.87
26:BC:64:LEU:CD1	26:BC:161:ILE:HG12	2.05	0.87
24:BA:182:A:H2'	24:BA:183:C:C6	2.09	0.87
1:AA:66:G:H4'	1:AA:173:U:C5	2.10	0.86
1:AA:197:A:N6	1:AA:221:C:H5'	1.90	0.86
1:AA:520:A:N6	1:AA:529:G:H21	1.73	0.86
1:AA:598:U:H4'	10:AK:94:TYR:CD2	2.09	0.86
4:AE:219:VAL:O	4:AE:223:ILE:HG13	1.75	0.86
11:AL:50:LEU:HD22	11:AL:51:ARG:HH12	1.40	0.86
13:AN:95:ILE:HA	13:AN:98:LEU:HG	1.54	0.86
1:AA:551:U:H5'	14:AO:119:LYS:HZ1	1.36	0.86
24:BA:1339:G:H5'	44:BW:16:LYS:HD3	1.54	0.86
24:BA:1406:U:H2'	24:BA:1407:C:H6	1.37	0.86
24:BA:1444:G:H3'	24:BA:1445:C:C5	2.09	0.86
24:BA:1524:G:H2'	24:BA:1525:G:H8	1.37	0.86
24:BA:1969:A:H4'	24:BA:1970:A:H5'	1.55	0.86
24:BA:511:U:H5	24:BA:512:G:N3	1.71	0.86
24:BA:670:A:H2'	36:BO:41:ARG:NH1	1.89	0.86
24:BA:948:G:C1'	24:BA:984:A:C2	2.58	0.86
28:BE:8:LYS:HD3	28:BE:9:VAL:N	1.90	0.86
30:BG:118:ARG:CG	30:BG:119:GLY:H	1.87	0.86
30:BG:47:LYS:HD2	30:BG:49:ASP:OD2	1.74	0.86
33:BL:7:VAL:HG12	33:BL:58:THR:CG2	2.01	0.86
34:BM:86:PRO:O	34:BM:89:LYS:HE3	1.74	0.86
36:BO:81:GLN:HA	36:BO:86:LYS:HE3	1.56	0.86
38:BQ:97:VAL:HG13	38:BQ:114:VAL:HG21	1.56	0.86
41:BT:111:GLU:HA	41:BT:114:LYS:CE	2.05	0.86
41:BT:8:VAL:O	41:BT:11:ARG:HG2	1.75	0.86
42:BU:68:LYS:O	42:BU:69:LYS:HB2	1.71	0.86
45:BX:14:LEU:HD13	45:BX:20:TYR:C	1.95	0.86
47:BZ:21:LEU:HG	47:BZ:22:GLY:H	1.40	0.86
1:AA:164:U:H2'	1:AA:165:C:H5	1.38	0.86
1:AA:1163:C:O2'	1:AA:1164:G:H5'	1.75	0.86
1:AA:1192:C:C6	1:AA:1192:C:H3'	2.09	0.86
1:AA:1454:G:H2'	1:AA:1455:G:H8	1.37	0.86
1:AA:21:G:H2'	1:AA:22:G:C8	2.10	0.86
1:AA:309:G:O2'	1:AA:310:G:H5'	1.75	0.86
1:AA:47:C:H4'	1:AA:48:C:C5'	2.04	0.86
1:AA:557:G:H3'	1:AA:558:G:C8	2.09	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:851:G:N2	1:AA:852:G:H1'	1.90	0.86
1:AA:975:A:O2'	1:AA:976:G:OP2	1.91	0.86
1:AA:878:G:C5'	10:AK:89:PRO:HG2	2.04	0.86
11:AL:55:ALA:HB1	11:AL:58:HIS:ND1	1.90	0.86
13:AN:99:GLN:HB3	13:AN:105:VAL:HG11	1.56	0.86
19:AT:45:HIS:O	19:AT:73:VAL:HG23	1.75	0.86
54:B7:7:HIS:HB2	54:B7:8:LYS:NZ	1.91	0.86
24:BA:1491:G:C2'	24:BA:1492:G:H4'	2.05	0.86
24:BA:2207:C:H2'	24:BA:2208:U:H4'	1.57	0.86
24:BA:2286:A:N6	52:B5:32:ASN:N	2.23	0.86
24:BA:2581:G:N1	24:BA:2610:C:C6	2.42	0.86
24:BA:1265:A:OP2	24:BA:2615:U:OP1	1.93	0.86
24:BA:392:C:H2'	24:BA:393:C:C6	2.10	0.86
24:BA:775:G:H2'	24:BA:794:G:C5	2.09	0.86
25:BB:88:C:N4	25:BB:89:G:N3	2.23	0.86
29:BF:130:ALA:CB	29:BF:142:TRP:HB2	1.99	0.86
29:BF:4:VAL:O	29:BF:20:LEU:HD13	1.72	0.86
31:BH:103:LEU:HB2	31:BH:115:VAL:CB	2.05	0.86
24:BA:2746:U:H5'	31:BH:139:GLN:HA	1.54	0.86
34:BM:23:LEU:CD1	34:BM:63:THR:N	2.38	0.86
34:BM:68:GLU:H	34:BM:70:LYS:NZ	1.72	0.86
35:BN:24:VAL:HG13	35:BN:30:ALA:HB1	1.56	0.86
36:BO:76:LYS:O	36:BO:115:LEU:HB2	1.75	0.86
37:BP:81:VAL:HG12	37:BP:82:ARG:N	1.90	0.86
32:BK:81:VAL:CB	32:BK:88:ILE:HG12	2.04	0.86
24:BA:2161:C:H2'	24:BA:2162:G:C8	2.09	0.86
43:BV:95:ILE:H	43:BV:95:ILE:HD12	1.38	0.86
1:AA:1336:C:H4'	1:AA:1337:G:C2	2.10	0.86
1:AA:731:G:H2'	1:AA:732:C:H6	1.39	0.86
1:AA:797:C:O2'	1:AA:798:G:H5'	1.76	0.86
3:AB:33:U:C2	3:AB:35:A:H5''	2.09	0.86
4:AE:134:GLU:O	4:AE:138:LEU:HG	1.74	0.86
6:AG:26:CYS:O	6:AG:33:MET:HG3	1.75	0.86
7:AH:78:HIS:CB	10:AK:107:LEU:HD21	2.04	0.86
16:AQ:26:ARG:HB2	16:AQ:43:CYS:HB2	1.54	0.86
52:B5:19:ARG:O	52:B5:43:CYS:SG	2.33	0.86
24:BA:1255:U:C5'	24:BA:1256:G:H5''	2.04	0.86
24:BA:1799:G:H1	27:BD:157:ARG:NH1	1.73	0.86
24:BA:2570:G:H5'	24:BA:2571:C:OP2	1.75	0.86
24:BA:546:C:H2'	24:BA:547:A:C8	2.10	0.86
24:BA:740:U:O2'	24:BA:741:G:P	2.33	0.86
24:BA:869:G:H2'	24:BA:870:A:C5'	2.01	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:974:G:H3'	24:BA:974(A):C:C5'	2.04	0.86
25:BB:50:G:H4'	39:BR:61:ASN:OD1	1.73	0.86
25:BB:7:G:H4'	39:BR:29:PHE:HE2	1.37	0.86
28:BE:173:VAL:HG22	28:BE:174:ASP:N	1.90	0.86
30:BG:39:ILE:HG23	30:BG:157:ILE:CB	2.05	0.86
34:BM:19:GLU:HB2	34:BM:56:ASN:CB	2.05	0.86
39:BR:3:ARG:HG2	39:BR:4:LEU:N	1.89	0.86
41:BT:111:GLU:HA	41:BT:114:LYS:HZ1	1.39	0.86
44:BW:39:ILE:HG21	44:BW:54:VAL:HG13	1.57	0.86
45:BX:82:PRO:CD	45:BX:97:ARG:H	1.87	0.86
32:BK:129:THR:HB	32:BK:139:GLN:OE1	1.74	0.86
1:AA:1400:C:H4'	1:AA:1401:G:OP2	1.75	0.86
4:AE:74:LYS:CE	4:AE:76:GLN:HB2	2.04	0.86
1:AA:1342:C:H4'	11:AL:125:TYR:HB2	1.57	0.86
11:AL:25:LYS:O	11:AL:61:ALA:HB3	1.73	0.86
1:AA:43:C:C5'	18:AS:12:LYS:HB3	2.01	0.86
20:AU:73:ALA:O	20:AU:79:LEU:HD11	1.73	0.86
24:BA:1341:U:H2'	24:BA:1341:U:O2	1.74	0.86
24:BA:1513:C:C4	24:BA:1514:U:O4	2.28	0.86
24:BA:1687:G:C6	24:BA:1688:U:H5	1.92	0.86
24:BA:2010:G:H2'	24:BA:2011:U:H5'	1.57	0.86
24:BA:2061:G:O2'	24:BA:2062:A:H5''	1.76	0.86
24:BA:2456:C:O2'	24:BA:2457:U:H5'	1.75	0.86
24:BA:2656:U:O2	24:BA:2656:U:H2'	1.73	0.86
24:BA:2712:U:C2'	24:BA:2712(A):A:H5''	2.05	0.86
24:BA:2711:A:H5'	24:BA:2712:U:H5'	1.55	0.86
24:BA:628:G:H8	24:BA:628:G:O5'	1.56	0.86
25:BB:27:C:N4	25:BB:56:G:N1	2.24	0.86
27:BD:202:LYS:HD2	27:BD:202:LYS:N	1.83	0.86
34:BM:109:LYS:HZ2	34:BM:110:GLY:H	1.18	0.86
34:BM:46:VAL:CG1	34:BM:47:ALA:H	1.70	0.86
34:BM:70:LYS:HD2	34:BM:86:PRO:HG3	1.57	0.86
35:BN:70:LYS:NZ	35:BN:102:VAL:HG13	1.89	0.86
37:BP:35:VAL:HG23	37:BP:101:ARG:O	1.76	0.86
40:BS:34:VAL:HG11	40:BS:78:LEU:HD11	1.56	0.86
45:BX:12:THR:HG21	45:BX:71:LYS:C	1.95	0.86
24:BA:1581:G:H2'	24:BA:1582:C:O4'	1.73	0.86
1:AA:907:A:H2'	1:AA:908:A:H8	1.40	0.86
3:AB:52:G:O4'	24:BA:2471:C:C5'	2.22	0.86
4:AE:115:LEU:HD23	4:AE:149:LEU:HD22	1.56	0.86
1:AA:6:G:H1	7:AH:96:PRO:HG2	1.38	0.86
8:AI:95:GLU:H	8:AI:96:PRO:CD	1.88	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AJ:29:LYS:HD2	9:AJ:101:LEU:HD22	1.57	0.86
9:AJ:31:MET:HG2	9:AJ:32:ARG:H	1.40	0.86
11:AL:4:TYR:HE1	11:AL:59:PHE:HE2	1.22	0.86
22:AW:83:ARG:O	22:AW:86:ARG:HG2	1.75	0.86
24:BA:1802:A:H2'	24:BA:1802:A:N3	1.87	0.86
24:BA:269:U:H3	24:BA:270:A:N6	1.74	0.86
24:BA:270(Z):U:N3	24:BA:271(C):U:H1'	1.90	0.86
24:BA:247:G:H5'	24:BA:386:G:H3'	1.57	0.86
24:BA:503:A:H4'	24:BA:504:U:C5'	2.05	0.86
24:BA:853:G:H2'	24:BA:854:G:C8	2.09	0.86
24:BA:943:U:OP1	24:BA:943:U:O4'	1.92	0.86
28:BE:58:ARG:HB2	28:BE:58:ARG:NH2	1.90	0.86
29:BF:40:GLN:O	29:BF:44:ARG:HG2	1.75	0.86
30:BG:41:GLN:HE22	30:BG:155:MET:CG	1.87	0.86
37:BP:22:LYS:HD2	37:BP:99:PRO:CG	2.04	0.86
41:BT:59:ARG:HA	41:BT:62:ILE:HD12	1.54	0.86
3:AD:23:A:H2'	3:AD:24:G:H8	1.39	0.86
33:BL:48:MET:O	33:BL:53:VAL:HG21	1.75	0.86
1:AA:1068:G:O2'	1:AA:1069:C:H5'	1.75	0.86
8:AI:7:ASN:ND2	8:AI:62:TRP:HD1	1.73	0.86
13:AN:80:VAL:O	13:AN:106:LYS:HB3	1.75	0.86
22:AW:56:MET:HG2	22:AW:88:VAL:HG21	1.55	0.86
22:AW:89:ARG:O	22:AW:93:GLU:HG3	1.74	0.86
50:B3:5:ILE:CG2	50:B3:57:GLU:HB2	2.06	0.86
54:B7:5:LYS:HB3	54:B7:60:LEU:HA	1.56	0.86
24:BA:2056:G:N2	51:B4:4:HIS:HD2	1.70	0.86
24:BA:2399:G:C2	24:BA:2400:G:H1'	2.11	0.86
24:BA:270(I):G:N3	24:BA:270(J):G:H1'	1.89	0.86
24:BA:2712:U:H3'	24:BA:2714:G:OP2	1.75	0.86
24:BA:851:U:H5''	49:B2:49:LYS:HD2	1.58	0.86
28:BE:44:TYR:HB3	28:BE:82:ARG:HH11	1.41	0.86
36:BO:108:LYS:HD3	36:BO:109:GLY:H	1.40	0.86
36:BO:45:LEU:HD13	54:B7:59:LYS:HE3	1.57	0.86
46:BY:122:ARG:HG2	46:BY:171:ILE:HA	1.56	0.86
3:AD:18:G:H4'	3:AD:60:U:N3	1.90	0.86
26:BC:182:PRO:HG2	26:BC:183:GLU:OE2	1.76	0.86
26:BC:64:LEU:HB3	26:BC:188:ASN:CG	1.96	0.86
24:BA:1418:G:H1'	24:BA:1581:G:H21	1.38	0.86
24:BA:1579:A:N6	24:BA:1581:G:N2	2.24	0.86
1:AA:38:G:N2	1:AA:397:A:C5	2.43	0.86
1:AA:65:U:H4'	1:AA:66:G:C5'	2.06	0.86
4:AE:145:LEU:O	4:AE:149:LEU:HB2	1.75	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AK:111:ILE:HD12	10:AK:111:ILE:N	1.91	0.86
18:AS:35:LYS:NZ	18:AS:37:GLY:H	1.73	0.86
20:AU:70:ILE:HG22	20:AU:74:ARG:NE	1.89	0.86
24:BA:1655:A:H61	24:BA:2005:A:H1'	1.41	0.86
24:BA:1790:C:H2'	24:BA:1791:A:N7	1.90	0.86
24:BA:2369:A:H2'	24:BA:2370:G:H8	1.39	0.86
24:BA:2447:G:H8	24:BA:2500:U:C3'	1.73	0.86
24:BA:2749:A:C5	24:BA:2750:A:N7	2.43	0.86
24:BA:2900:A:H2'	24:BA:2901:C:C6	2.09	0.86
24:BA:319:C:H2'	24:BA:320:A:C8	2.11	0.86
24:BA:587:C:C5	36:BO:30:THR:HG21	2.11	0.86
24:BA:705:A:N3	24:BA:705:A:H2'	1.91	0.86
24:BA:746:A:N7	24:BA:2612:C:P	2.48	0.86
24:BA:957:A:O3'	24:BA:958:U:H4'	1.74	0.86
27:BD:252:TRP:H	27:BD:255:LYS:HZ1	1.20	0.86
29:BF:108:LYS:O	29:BF:111:ALA:HB3	1.75	0.86
34:BM:128:HIS:N	34:BM:129:PRO:HD2	1.90	0.86
34:BM:127:ASP:H	34:BM:129:PRO:HD2	1.37	0.86
34:BM:99:LEU:HD12	34:BM:100:GLU:N	1.89	0.86
32:BK:59:ALA:HA	32:BK:62:LYS:HD2	1.54	0.86
1:AA:1516:G:H22	1:AA:1518:A:H3'	1.41	0.86
1:AA:761:G:H5'	19:AT:103:GLY:H	1.41	0.86
4:AE:82:ARG:HA	4:AE:92:TYR:CE1	2.11	0.86
7:AH:105:VAL:HG11	7:AH:131:ILE:HG22	1.58	0.86
9:AJ:99:LEU:O	9:AJ:103:TRP:HB2	1.76	0.86
9:AJ:15:ASP:CG	9:AJ:23:VAL:HG11	1.96	0.86
1:AA:1226:C:C6	15:AP:104:ARG:HA	2.11	0.86
1:AA:266:G:H2'	19:AT:67:LYS:NZ	1.91	0.86
20:AU:45:SER:HB3	20:AU:51:LEU:HD11	1.56	0.86
13:AN:110:ASP:HB2	20:AU:88:LYS:CB	2.05	0.86
21:AV:16:LEU:HD12	21:AV:44:MET:HE1	1.56	0.86
24:BA:1202:C:H2'	24:BA:1203:G:H4'	1.57	0.86
24:BA:1308:A:C2	24:BA:1309:G:H1'	2.10	0.86
24:BA:1527:G:H1'	24:BA:1528:A:N3	1.91	0.86
24:BA:1527:G:H1'	24:BA:1528:A:C2	2.09	0.86
27:BD:76:PRO:HA	27:BD:118:VAL:CG2	2.05	0.86
27:BD:227:ASN:O	27:BD:229:VAL:HG12	1.75	0.86
28:BE:158:GLY:O	28:BE:160:TYR:HD1	1.59	0.86
29:BF:74:ARG:NE	29:BF:75:HIS:N	2.23	0.86
35:BN:47:ILE:HD11	35:BN:52:VAL:HG13	1.57	0.86
38:BQ:38:VAL:HB	38:BQ:39:PRO:CD	2.06	0.86
39:BR:106:ARG:HH22	39:BR:110:LEU:HD13	1.39	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:111:VAL:CG2	46:BY:117:LEU:HG	2.06	0.86
32:BK:93:THR:CG2	32:BK:96:ASP:H	1.88	0.86
3:AD:23:A:H2'	3:AD:24:G:C8	2.10	0.86
3:AD:58:A:H2'	3:AD:61:C:C4	2.11	0.86
1:AA:1490:C:C2'	1:AA:1491:G:H5'	2.05	0.86
1:AA:20:U:H5'	1:AA:572:A:H61	1.38	0.86
9:AJ:45:ASP:HA	9:AJ:48:LYS:NZ	1.90	0.86
1:AA:37:U:OP2	14:AO:123:LYS:HD2	1.76	0.86
52:B5:33:LYS:HE2	52:B5:34:LEU:N	1.91	0.86
24:BA:2027:G:H2'	24:BA:2028:U:H6	1.41	0.86
24:BA:2226:C:H2'	24:BA:2226:C:O2	1.76	0.86
24:BA:270(B):A:H1'	24:BA:270(C):C:C5	2.11	0.86
27:BD:226:MET:HE1	27:BD:237:GLU:O	1.76	0.86
27:BD:27:THR:HG22	27:BD:29:PRO:HD2	1.56	0.86
24:BA:1257:C:H4'	29:BF:83:PHE:CD1	2.11	0.86
24:BA:1275:A:N3	38:BQ:12:ARG:NH2	2.24	0.86
41:BT:102:GLU:HB3	41:BT:105:VAL:HB	1.58	0.86
43:BV:47:VAL:O	43:BV:51:LEU:HD13	1.76	0.86
1:AA:800:G:O5'	1:AA:800:G:H8	1.59	0.86
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.41	0.86
1:AA:529:G:H3'	1:AA:529:G:C8	2.10	0.86
1:AA:684:A:H2'	1:AA:685:G:C8	2.11	0.86
1:AA:713:G:H2'	1:AA:714:G:C8	2.11	0.86
4:AE:46:LYS:HE2	4:AE:46:LYS:HA	1.56	0.86
6:AG:59:ARG:C	6:AG:63:LYS:HZ2	1.79	0.86
10:AK:97:VAL:HG22	10:AK:98:LYS:H	1.41	0.86
24:BA:1934:C:C5'	24:BA:1974:C:H4'	2.06	0.86
24:BA:2209:C:C2'	24:BA:2210:G:H3'	2.05	0.86
24:BA:2332:U:C4'	24:BA:2336:A:N6	2.36	0.86
24:BA:2447:G:N7	24:BA:2500:U:C2'	2.39	0.86
24:BA:2748:A:H1'	31:BH:67:LEU:CD2	2.06	0.86
24:BA:389:G:C8	24:BA:2413:G:H4'	2.11	0.86
24:BA:39:C:H2'	24:BA:40:C:C6	2.11	0.86
24:BA:725:G:H2'	24:BA:726:G:O4'	1.76	0.86
24:BA:889:C:H2'	24:BA:890:A:O4'	1.76	0.86
27:BD:181:GLU:CA	27:BD:270:ILE:HD12	2.05	0.86
27:BD:8:PRO:O	27:BD:25:THR:CA	2.17	0.86
30:BG:173:LEU:HD12	30:BG:176:LEU:HD12	1.55	0.86
31:BH:11:VAL:HG23	31:BH:50:VAL:HG21	1.55	0.86
32:BK:5:LEU:HB2	32:BK:8:PRO:CD	2.06	0.86
39:BR:26:LEU:O	39:BR:88:ASP:HB2	1.74	0.86
42:BU:18:LEU:HB2	42:BU:66:ARG:HH22	1.39	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2009:G:OP1	43:BV:41:LYS:HD2	1.75	0.86
24:BA:273(B):C:H2'	24:BA:273(C):C:C6	2.11	0.86
1:AA:1058:G:H2'	1:AA:1059:C:O4'	1.76	0.85
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.11	0.85
1:AA:607:A:H2'	1:AA:608:A:O4'	1.75	0.85
4:AE:187:LEU:HD21	4:AE:203:GLY:O	1.76	0.85
4:AE:61:LEU:HD23	4:AE:62:ALA:N	1.91	0.85
9:AJ:74:GLU:O	9:AJ:88:PRO:HA	1.75	0.85
10:AK:26:VAL:HG22	10:AK:27:PRO:CD	2.06	0.85
1:AA:562:C:O2'	14:AO:15:ARG:HD3	1.76	0.85
17:AR:53:HIS:O	17:AR:57:LEU:HD13	1.76	0.85
19:AT:43:LEU:O	19:AT:43:LEU:HD13	1.75	0.85
20:AU:68:LYS:O	20:AU:71:LYS:HB2	1.74	0.85
13:AN:110:ASP:HB2	20:AU:88:LYS:HB2	1.56	0.85
24:BA:1534:G:H21	24:BA:1537:C:H5	1.21	0.85
24:BA:2453:A:H4'	24:BA:2572:A:O2'	1.76	0.85
24:BA:429:A:H2'	24:BA:430:G:C8	2.11	0.85
24:BA:587:C:H5	36:BO:30:THR:HG21	1.41	0.85
24:BA:84:A:H5''	45:BX:8:LYS:HG3	1.56	0.85
29:BF:36:VAL:HG11	29:BF:183:VAL:CB	2.04	0.85
39:BR:16:ASN:O	39:BR:20:ARG:HG2	1.74	0.85
41:BT:53:ARG:HA	41:BT:56:ASP:CG	1.95	0.85
42:BU:9:GLY:O	42:BU:10:LYS:HB2	1.76	0.85
24:BA:2138:C:H2'	24:BA:2139:C:C6	2.10	0.85
1:AA:722:A:H2'	1:AA:724:G:C8	2.10	0.85
1:AA:854:G:H3'	1:AA:871:U:O4	1.76	0.85
10:AK:103:VAL:HB	10:AK:108:GLY:HA3	1.58	0.85
10:AK:12:ARG:HD3	10:AK:26:VAL:HG22	1.57	0.85
1:AA:728:A:H8	17:AR:54:ARG:CZ	1.88	0.85
18:AS:55:ARG:HE	18:AS:55:ARG:HA	1.41	0.85
21:AV:11:VAL:HG22	21:AV:39:THR:HB	1.58	0.85
50:B3:41:PRO:HB3	50:B3:58:ARG:HD2	1.56	0.85
53:B6:20:ALA:HA	53:B6:23:ARG:HD2	1.55	0.85
24:BA:242:G:C3'	54:B7:4:MET:HG3	2.06	0.85
24:BA:1742:C:H3'	24:BA:1743:G:H5''	1.58	0.85
24:BA:858:U:H2'	24:BA:2268:A:C8	2.11	0.85
24:BA:365:C:H2'	24:BA:366:C:H6	1.41	0.85
24:BA:586:A:C2	24:BA:809:G:N2	2.43	0.85
24:BA:775:G:H5'	24:BA:777:A:H1'	1.59	0.85
27:BD:108:PRO:HA	27:BD:195:ALA:O	1.76	0.85
28:BE:101:ARG:HH21	28:BE:171:GLU:HG2	1.40	0.85
29:BF:63:LYS:HA	29:BF:76:GLY:O	1.75	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:BG:47:LYS:CE	30:BG:73:ALA:HB3	2.04	0.85
32:BK:21:VAL:CB	32:BK:26:ALA:HB2	2.05	0.85
35:BN:12:ASP:OD2	35:BN:85:VAL:N	2.08	0.85
36:BO:72:PRO:HG3	36:BO:110:TYR:CD2	2.12	0.85
38:BQ:8:ARG:NE	38:BQ:10:LEU:HD11	1.91	0.85
39:BR:62:LYS:C	39:BR:64:GLU:N	2.21	0.85
42:BU:49:THR:CB	42:BU:50:PRO:HD2	2.04	0.85
46:BY:78:LYS:HE2	46:BY:84:GLU:OE2	1.75	0.85
1:AA:522:C:H5''	14:AO:120:TYR:OH	1.76	0.85
1:AA:901:A:C2	1:AA:902:G:C1'	2.57	0.85
5:AF:191:THR:OG1	5:AF:196:LEU:HD11	1.75	0.85
48:B1:33:GLN:O	48:B1:35:SER:N	2.08	0.85
53:B6:20:ALA:HB3	53:B6:21:ARG:NH2	1.91	0.85
24:BA:1448:G:H4'	24:BA:1543:A:N6	1.91	0.85
24:BA:2065:C:H2'	24:BA:2066:C:O4'	1.76	0.85
24:BA:280:C:N4	24:BA:283:A:H62	1.73	0.85
24:BA:326:G:H2'	24:BA:327:G:C8	2.10	0.85
24:BA:729:G:C4	24:BA:730:C:H1'	2.11	0.85
24:BA:976:C:O2'	24:BA:977:G:H5'	1.76	0.85
27:BD:112:GLN:H	27:BD:115:GLN:NE2	1.74	0.85
24:BA:1788:C:H2'	27:BD:222:ARG:CZ	2.06	0.85
24:BA:1902:C:H5'	27:BD:244:ARG:NE	1.91	0.85
28:BE:127:ASP:HB2	28:BE:135:HIS:CA	2.07	0.85
28:BE:136:ARG:O	28:BE:137:HIS:ND1	2.09	0.85
28:BE:195:LEU:HD13	28:BE:196:VAL:H	1.38	0.85
29:BF:36:VAL:HG21	29:BF:183:VAL:CG2	2.06	0.85
24:BA:1081:U:H5''	33:BL:122:ALA:HA	1.56	0.85
36:BO:122:PRO:HG3	36:BO:137:LYS:C	1.97	0.85
36:BO:138:LEU:HD21	36:BO:145:PRO:HD3	1.58	0.85
36:BO:91:PHE:O	36:BO:95:VAL:HB	1.75	0.85
43:BV:55:ALA:O	43:BV:58:ALA:HB3	1.76	0.85
47:BZ:21:LEU:HD12	47:BZ:39:ARG:HB3	1.59	0.85
47:BZ:37:LEU:HD11	47:BZ:59:LEU:HB3	1.55	0.85
47:BZ:68:GLU:OE2	47:BZ:82:ARG:HB2	1.74	0.85
3:AD:58:A:H2'	3:AD:61:C:C5	2.11	0.85
1:AA:1516:G:N2	1:AA:1518:A:H3'	1.92	0.85
10:AK:88:LYS:HZ2	10:AK:88:LYS:H	1.23	0.85
1:AA:363:A:N7	14:AO:30:ALA:HB1	1.91	0.85
21:AV:5:LEU:CD1	21:AV:9:VAL:HG13	2.07	0.85
48:B1:45:ILE:HG13	48:B1:46:ARG:H	1.41	0.85
49:B2:26:LEU:HG	49:B2:35:ARG:NH1	1.92	0.85
49:B2:7:LYS:O	49:B2:54:VAL:HG23	1.76	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:B8:10:ILE:HD11	55:B8:34:GLN:HE21	1.41	0.85
24:BA:1526:G:H5''	24:BA:1527:G:OP1	1.76	0.85
24:BA:1567:A:H4'	24:BA:1568:G:C2	2.10	0.85
24:BA:1662:C:H2'	24:BA:1663:C:C6	2.11	0.85
24:BA:1667:G:N2	24:BA:1991:U:C4	2.44	0.85
24:BA:530:G:H22	24:BA:2021:C:H3'	1.41	0.85
24:BA:2246:G:H2'	24:BA:2247:A:C8	2.11	0.85
24:BA:2447:G:O2'	24:BA:2448:A:OP2	1.93	0.85
24:BA:2539:C:O2'	24:BA:2540:C:H5'	1.76	0.85
24:BA:764:A:N6	24:BA:1776:G:H1'	1.91	0.85
28:BE:196:VAL:HG12	28:BE:197:ILE:N	1.91	0.85
28:BE:200:GLU:HB3	28:BE:202:LYS:HZ3	1.41	0.85
30:BG:92:VAL:HG11	30:BG:94:LEU:HD22	1.58	0.85
34:BM:116:LEU:HD23	34:BM:116:LEU:O	1.76	0.85
35:BN:10:VAL:CG1	35:BN:17:ARG:HA	2.06	0.85
35:BN:68:GLU:HG3	35:BN:68:GLU:O	1.73	0.85
36:BO:88:LEU:HD11	36:BO:124:LYS:HZ1	1.40	0.85
43:BV:11:ARG:HB2	43:BV:98:LYS:CE	2.05	0.85
32:BK:130:TYR:O	32:BK:132:PRO:HD3	1.76	0.85
26:BC:177:LYS:HB2	26:BC:180:PHE:HB2	1.57	0.85
1:AA:1163:C:C2'	1:AA:1164:G:H5'	2.07	0.85
1:AA:389:A:C6	1:AA:390:C:H1'	2.10	0.85
4:AE:95:GLN:NE2	4:AE:148:TYR:HB3	1.91	0.85
4:AE:167:PRO:O	4:AE:169:LYS:N	2.09	0.85
4:AE:217:ARG:O	4:AE:220:ASP:HB2	1.76	0.85
22:AW:63:ILE:HD13	22:AW:80:ARG:HB3	1.56	0.85
23:AX:9:ARG:HH12	23:AX:21:TYR:HD2	1.21	0.85
1:AA:1286:A:H5'	23:AX:25:LYS:CG	2.06	0.85
53:B6:43:THR:O	53:B6:46:VAL:N	2.09	0.85
24:BA:1476:C:N4	24:BA:1517:G:C8	2.44	0.85
24:BA:1351:C:O2'	24:BA:1571:A:H1'	1.77	0.85
24:BA:259:G:H2'	24:BA:260:G:C8	2.08	0.85
27:BD:106:ILE:HG13	27:BD:108:PRO:HD3	1.58	0.85
24:BA:1820:U:C2'	27:BD:202:LYS:HG3	2.06	0.85
27:BD:72:LYS:O	27:BD:74:GLY:N	2.10	0.85
33:BL:122:ALA:O	33:BL:126:MET:HG3	1.76	0.85
34:BM:35:ARG:N	34:BM:49:GLY:HA2	1.91	0.85
38:BQ:97:VAL:HA	38:BQ:114:VAL:HG22	1.55	0.85
24:BA:2020:A:OP2	41:BT:27:LEU:HD13	1.76	0.85
46:BY:73:GLN:O	46:BY:87:ASP:HB2	1.77	0.85
32:BK:115:ALA:HB2	32:BK:129:THR:O	1.75	0.85
3:AD:40:C:C3'	3:AD:41:C:H5''	2.05	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1101:A:H4'	1:AA:1102:A:O5'	1.73	0.85
1:AA:1118:C:H5'	11:AL:103:THR:HG23	1.56	0.85
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.12	0.85
5:AF:12:LEU:CD2	16:AQ:57:ARG:HG3	2.05	0.85
7:AH:11:ILE:HB	7:AH:31:LEU:HD22	1.58	0.85
10:AK:95:VAL:CG2	10:AK:133:LEU:HD21	2.07	0.85
12:AM:24:VAL:HA	12:AM:34:VAL:HG21	1.59	0.85
13:AN:78:GLN:O	13:AN:104:GLN:HB3	1.76	0.85
18:AS:3:LYS:HB3	18:AS:3:LYS:NZ	1.91	0.85
18:AS:3:LYS:HB3	18:AS:3:LYS:HZ2	1.38	0.85
19:AT:62:SER:HB3	19:AT:72:ARG:HE	1.40	0.85
21:AV:30:LEU:HA	21:AV:49:ILE:HA	1.58	0.85
22:AW:25:ARG:HG2	22:AW:29:LYS:HE3	1.59	0.85
49:B2:40:THR:HG22	49:B2:42:ALA:H	1.41	0.85
24:BA:1936:A:H5'	24:BA:1937:A:N3	1.92	0.85
24:BA:2075:U:H2'	24:BA:2076:U:H5''	1.56	0.85
24:BA:501:A:O5'	24:BA:501:A:H8	1.59	0.85
24:BA:90:U:O2'	24:BA:91:A:H5''	1.77	0.85
28:BE:101:ARG:HD2	28:BE:169:ASN:HD21	1.42	0.85
33:BL:27:LEU:CD1	33:BL:57:ILE:HD11	2.05	0.85
34:BM:18:ALA:HB3	34:BM:55:VAL:O	1.77	0.85
35:BN:37:ASP:H	35:BN:61:VAL:HB	1.41	0.85
36:BO:45:LEU:HD13	54:B7:59:LYS:NZ	1.91	0.85
37:BP:44:ALA:CA	37:BP:47:ILE:HD12	2.07	0.85
24:BA:1154:G:H5''	41:BT:58:ARG:HD3	1.58	0.85
43:BV:59:VAL:CA	43:BV:63:ASP:HA	2.07	0.85
46:BY:39:VAL:HG21	46:BY:86:VAL:HG23	1.59	0.85
32:BK:93:THR:HG23	32:BK:96:ASP:H	1.38	0.85
1:AA:1378:C:N3	1:AA:1379:G:H1'	1.91	0.85
1:AA:1388:C:H2'	1:AA:1389:C:H6	1.42	0.85
1:AA:310:G:H2'	1:AA:311:C:C6	2.12	0.85
1:AA:610:G:O2'	1:AA:611:A:H5'	1.76	0.85
4:AE:176:GLU:O	4:AE:180:LEU:HG	1.76	0.85
4:AE:54:THR:O	4:AE:58:ILE:HG13	1.76	0.85
6:AG:60:GLU:CD	6:AG:202:LEU:HD12	1.95	0.85
11:AL:49:PRO:HD3	11:AL:78:LYS:HG2	1.56	0.85
12:AM:10:GLY:HA3	12:AM:94:VAL:HG22	1.57	0.85
1:AA:186(A):C:H1'	22:AW:104:LEU:HD23	1.59	0.85
52:B5:8:LYS:O	52:B5:28:ARG:HB3	1.76	0.85
24:BA:1406:U:H2'	24:BA:1407:C:C6	2.11	0.85
24:BA:2323:G:H2'	24:BA:2324:C:C6	2.11	0.85
24:BA:2493:U:H3'	24:BA:2493:U:C6	2.11	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2742:C:OP1	55:B8:2:LYS:HE2	1.75	0.85
24:BA:2881:C:H2'	24:BA:2882:A:C8	2.10	0.85
24:BA:718:A:H3'	24:BA:719:C:H6	1.42	0.85
24:BA:917:A:H2'	24:BA:918:A:H5''	1.58	0.85
28:BE:8:LYS:CA	28:BE:8:LYS:HE2	2.06	0.85
33:BL:10:LEU:CD2	33:BL:57:ILE:HG12	2.06	0.85
35:BN:2:ILE:HG21	35:BN:32:TYR:HB3	1.58	0.85
24:BA:2416:C:C5'	36:BO:59:LEU:HB2	2.05	0.85
37:BP:7:MET:H	37:BP:70:PRO:CG	1.89	0.85
38:BQ:20:LEU:HD13	38:BQ:20:LEU:C	1.97	0.85
41:BT:55:ARG:O	41:BT:58:ARG:HB3	1.75	0.85
45:BX:16:ALA:HB3	45:BX:68:HIS:ND1	1.91	0.85
26:BC:100:ILE:HD11	26:BC:123:VAL:HG22	1.56	0.85
24:BA:1582:C:H3'	24:BA:1583:A:H5''	1.59	0.85
1:AA:1064:G:H1'	1:AA:1066:C:N3	1.91	0.85
1:AA:1129:C:N4	1:AA:1139:G:C6	2.45	0.85
1:AA:1143:G:H2'	1:AA:1144:G:C8	2.11	0.85
1:AA:1298:C:C5	9:AJ:114:ARG:HD3	2.11	0.85
1:AA:1490:C:O2'	1:AA:1491:G:H5'	1.77	0.85
1:AA:668:G:H4'	17:AR:48:LYS:O	1.77	0.85
4:AE:78:GLN:HE22	4:AE:96:ARG:HH12	1.25	0.85
9:AJ:29:LYS:HZ3	9:AJ:102:ARG:HB2	1.42	0.85
9:AJ:69:VAL:HG21	9:AJ:104:LEU:HD11	1.58	0.85
10:AK:18:ARG:HG3	10:AK:18:ARG:HH11	1.41	0.85
1:AA:684:A:C4'	13:AN:12:ARG:HH22	1.89	0.85
1:AA:691:G:O6	13:AN:55:LYS:HE2	1.75	0.85
15:AP:14:ARG:HA	15:AP:44:ARG:HA	1.57	0.85
15:AP:23:TYR:CE2	15:AP:70:LEU:HD22	2.12	0.85
18:AS:8:ARG:HH12	18:AS:11:SER:N	1.75	0.85
19:AT:91:ARG:HA	19:AT:94:ASN:HD22	1.40	0.85
49:B2:54:VAL:HG22	49:B2:55:ARG:H	1.38	0.85
54:B7:15:LYS:O	54:B7:22:VAL:HG13	1.75	0.85
24:BA:1222:C:H42	24:BA:1227:A:H61	1.23	0.85
24:BA:189:G:H2'	24:BA:205:G:H22	1.42	0.85
24:BA:1911:U:H2'	24:BA:1912:A:H5'	1.57	0.85
24:BA:2083:G:H2'	24:BA:2084:C:H6	1.35	0.85
24:BA:239:U:H1'	24:BA:259:G:N2	1.90	0.85
24:BA:29:U:H2'	24:BA:30:G:C8	2.10	0.85
24:BA:34:C:H2'	24:BA:455:C:H41	1.40	0.85
24:BA:51:G:H5'	24:BA:52:A:OP1	1.76	0.85
27:BD:234:GLY:N	27:BD:241:PRO:HG2	1.90	0.85
27:BD:232:PRO:HG2	27:BD:247:ALA:HA	1.57	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2821:A:H5''	28:BE:110:GLY:HA3	1.58	0.85
35:BN:52:VAL:CG2	35:BN:53:LYS:N	2.39	0.85
35:BN:62:VAL:CG2	35:BN:83:ALA:HA	2.05	0.85
40:BS:44:ASP:O	40:BS:46:GLU:N	2.10	0.85
24:BA:2353:G:H4'	47:BZ:32:ARG:NH2	1.90	0.85
1:AA:1247:U:H2'	1:AA:1248:A:H8	1.42	0.85
1:AA:1347:G:H8	11:AL:107:ARG:HB3	1.42	0.85
1:AA:559:A:H4'	1:AA:560:U:H5'	0.92	0.85
1:AA:952:U:C5'	1:AA:972:C:H41	1.88	0.85
1:AA:983:A:H3'	1:AA:983:A:N3	1.91	0.85
4:AE:69:LEU:HB3	4:AE:162:ILE:HG22	1.56	0.85
13:AN:58:PRO:HB3	13:AN:90:GLY:CA	2.06	0.85
53:B6:21:ARG:HG2	53:B6:31:LEU:CD2	2.06	0.85
24:BA:1353:A:H2'	24:BA:1354:A:C8	2.12	0.85
24:BA:1810:A:H2'	24:BA:1811:G:H5'	1.57	0.85
24:BA:1913:A:C4	24:BA:1918:A:N6	2.44	0.85
24:BA:2405:G:H2'	24:BA:2411:A:H61	1.38	0.85
24:BA:388:G:O5'	50:B3:23:GLU:HB3	1.76	0.85
24:BA:449:A:H2'	24:BA:450:G:O4'	1.77	0.85
24:BA:482:A:N3	24:BA:482:A:H2'	1.88	0.85
24:BA:483:A:O3'	45:BX:48:ALA:HB2	1.77	0.85
29:BF:158:THR:HG21	29:BF:195:ASP:HB2	1.56	0.85
30:BG:32:PRO:HB2	30:BG:163:ALA:HA	1.59	0.85
30:BG:53:LEU:HD23	30:BG:71:THR:N	1.92	0.85
30:BG:57:ALA:HB2	30:BG:68:PRO:O	1.75	0.85
31:BH:126:PRO:HG2	31:BH:132:ARG:HH22	1.41	0.85
34:BM:68:GLU:N	34:BM:70:LYS:HZ1	1.74	0.85
35:BN:64:ARG:NH2	35:BN:64:ARG:HG3	1.89	0.85
35:BN:70:LYS:HZ3	35:BN:102:VAL:HG13	1.42	0.85
35:BN:97:ARG:HB2	35:BN:97:ARG:CZ	2.04	0.85
36:BO:128:HIS:HA	36:BO:147:LEU:CD2	2.06	0.85
37:BP:96:VAL:HG12	37:BP:98:LYS:NZ	1.92	0.85
38:BQ:45:ARG:O	38:BQ:49:ASP:HB2	1.75	0.85
38:BQ:51:LEU:HD21	38:BQ:70:LEU:HD21	1.59	0.85
42:BU:5:VAL:N	42:BU:12:TYR:HD2	1.74	0.85
25:BB:12:C:O4'	47:BZ:74:ARG:NE	2.10	0.85
4:AE:115:LEU:CD2	4:AE:149:LEU:HD13	2.06	0.85
5:AF:150:LYS:HA	5:AF:169:ALA:HB2	1.58	0.85
5:AF:11:ARG:HG3	5:AF:16:ARG:HH21	1.40	0.85
5:AF:33:LEU:O	5:AF:36:ASP:HB3	1.77	0.85
6:AG:18:LYS:HA	6:AG:33:MET:HE2	1.58	0.85
8:AI:98:LEU:HD22	8:AI:101:ALA:HB2	1.57	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AJ:69:VAL:HG11	9:AJ:104:LEU:HG	1.58	0.85
10:AK:126:LYS:NZ	10:AK:127:LEU:HD23	1.91	0.85
11:AL:19:LEU:HD21	11:AL:59:PHE:CB	2.01	0.85
21:AV:5:LEU:CB	21:AV:9:VAL:HG22	2.04	0.85
1:AA:186(B):C:H4'	22:AW:89:ARG:NH1	1.92	0.85
24:BA:1241:A:C3'	24:BA:1241:A:N3	2.39	0.85
24:BA:1542:G:H1'	24:BA:1543:A:N1	1.91	0.85
24:BA:2514:U:H2'	24:BA:2515:C:H6	1.41	0.85
24:BA:271(B):G:H5''	24:BA:271(C):U:O4'	1.77	0.85
27:BD:7:LYS:HE2	27:BD:25:THR:HB	1.59	0.85
34:BM:37:LYS:HD2	34:BM:43:THR:HA	1.57	0.85
39:BR:51:ALA:CB	39:BR:73:LEU:HG	2.06	0.85
42:BU:67:GLY:HA2	42:BU:93:GLU:O	1.76	0.85
1:AA:595:G:C8	1:AA:641:U:C4	2.64	0.84
3:AB:55:U:O2	3:AB:55:U:H2'	1.77	0.84
4:AE:91:PRO:HB3	4:AE:152:PHE:CD1	2.12	0.84
6:AG:126:ILE:O	6:AG:149:ALA:HB2	1.76	0.84
6:AG:57:ARG:HG3	6:AG:202:LEU:O	1.77	0.84
7:AH:102:ALA:CB	7:AH:106:PRO:HB2	2.07	0.84
8:AI:50:TYR:OH	20:AU:77:GLY:HA2	1.77	0.84
9:AJ:23:VAL:HG13	9:AJ:43:PHE:CZ	2.12	0.84
12:AM:30:SER:HB3	12:AM:80:LYS:HG3	1.59	0.84
21:AV:13:ASP:HA	21:AV:16:LEU:HB2	1.59	0.84
24:BA:594:U:H5''	54:B7:61:LEU:HD13	1.59	0.84
24:BA:83:G:O6	24:BA:102:G:H1'	1.76	0.84
24:BA:1700:A:H2'	24:BA:1701:A:C5'	2.07	0.84
24:BA:2089:U:H2'	24:BA:2090:G:H8	1.42	0.84
24:BA:576:U:H2'	24:BA:577:G:C8	2.13	0.84
24:BA:704:G:N2	24:BA:726:G:O2'	2.10	0.84
24:BA:806:C:H2'	24:BA:807:U:H6	1.42	0.84
24:BA:878:A:N3	24:BA:879:G:H5''	1.92	0.84
27:BD:175:LEU:HD22	27:BD:176:ARG:N	1.92	0.84
27:BD:89:SER:O	27:BD:159:ALA:HB2	1.77	0.84
31:BH:125:VAL:HA	31:BH:131:VAL:HG22	1.59	0.84
24:BA:2416:C:OP1	36:BO:59:LEU:CA	2.25	0.84
39:BR:12:PHE:CD1	39:BR:13:ARG:N	2.45	0.84
41:BT:49:HIS:CD2	41:BT:52:ARG:NH2	2.44	0.84
41:BT:91:ASP:O	41:BT:95:LEU:HD21	1.76	0.84
24:BA:2602:A:N3	47:BZ:1:MET:HA	1.92	0.84
26:BC:183:GLU:H	26:BC:183:GLU:CD	1.80	0.84
26:BC:50:ASP:OD1	26:BC:52:ARG:HG2	1.75	0.84
48:B1:4:GLN:HA	48:B1:7:GLU:OE1	1.77	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:327:A:H4'	1:AA:328:C:OP1	1.77	0.84
1:AA:628:G:H2'	1:AA:629:G:H8	1.42	0.84
4:AE:7:VAL:HG23	4:AE:8:LYS:H	1.42	0.84
5:AF:84:ILE:HG13	5:AF:101:LEU:HD22	1.59	0.84
6:AG:70:ILE:HD12	6:AG:100:ARG:HH21	1.41	0.84
13:AN:84:VAL:HG22	13:AN:109:VAL:O	1.77	0.84
18:AS:4:ILE:N	18:AS:4:ILE:HD13	1.92	0.84
18:AS:53:VAL:O	18:AS:56:ALA:HB3	1.77	0.84
49:B2:17:LYS:HA	49:B2:20:LYS:CE	2.07	0.84
50:B3:21:VAL:HG12	50:B3:22:ILE:N	1.92	0.84
52:B5:19:ARG:NH1	52:B5:43:CYS:CB	2.40	0.84
52:B5:52:VAL:HG12	52:B5:53:LYS:N	1.92	0.84
24:BA:1342:A:H2'	24:BA:1345:C:H41	1.42	0.84
24:BA:1349:A:H2	24:BA:1598:C:N3	1.75	0.84
24:BA:1458:C:H4'	24:BA:1459:G:C8	2.12	0.84
24:BA:2055:C:H2'	24:BA:2504:U:H5'	1.59	0.84
24:BA:2691:C:C4	24:BA:2719:G:N2	2.45	0.84
24:BA:2795:G:H2'	24:BA:2795:G:N3	1.93	0.84
24:BA:472:A:C2'	24:BA:473:G:H5''	2.06	0.84
24:BA:533:G:OP2	41:BT:25:TRP:HB2	1.77	0.84
24:BA:61:G:H2'	24:BA:62:C:C6	2.11	0.84
24:BA:672:C:O5'	36:BO:38:GLN:NE2	2.10	0.84
24:BA:722:A:H2'	24:BA:723:G:H8	1.39	0.84
24:BA:931:G:H21	49:B2:24:LYS:HB3	1.40	0.84
36:BO:55:ARG:HH21	36:BO:55:ARG:HB3	1.40	0.84
37:BP:112:GLU:HA	37:BP:115:MET:CG	2.06	0.84
38:BQ:102:GLU:CD	38:BQ:103:ARG:H	1.80	0.84
38:BQ:59:ASP:O	38:BQ:63:ARG:HG3	1.77	0.84
45:BX:31:LEU:HB3	45:BX:32:PRO:CD	2.07	0.84
24:BA:1113:U:H2'	24:BA:1114:G:C8	2.13	0.84
2:A1:38:U:H2'	2:A1:39:U:C6	2.11	0.84
6:AG:133:VAL:HG11	6:AG:138:TYR:CD1	2.11	0.84
6:AG:145:GLU:HB3	6:AG:184:LYS:HG2	1.57	0.84
13:AN:58:PRO:HB2	13:AN:93:GLN:CB	2.07	0.84
15:AP:11:ARG:HH11	15:AP:11:ARG:HG3	1.43	0.84
52:B5:20:ASN:ND2	52:B5:43:CYS:N	2.25	0.84
24:BA:1065:U:C1'	24:BA:1074:G:H22	1.90	0.84
24:BA:1137:G:O2'	34:BM:105:GLY:HA3	1.77	0.84
24:BA:1658:C:OP1	28:BE:134:ILE:HB	1.77	0.84
24:BA:1965:C:H3'	24:BA:1966:A:H8	1.31	0.84
24:BA:2348:U:O4	24:BA:2382:G:N2	2.08	0.84
24:BA:2530:A:C3'	24:BA:2531:A:H5''	2.07	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2644:G:O5'	24:BA:2644:G:H8	1.59	0.84
24:BA:511:U:C5	24:BA:512:G:N3	2.45	0.84
27:BD:147:LEU:CG	27:BD:154:LYS:HD2	2.07	0.84
27:BD:5:LYS:HB3	27:BD:29:PRO:HD3	1.59	0.84
29:BF:118:ALA:HB2	29:BF:122:LYS:HE2	1.59	0.84
29:BF:122:LYS:NZ	29:BF:122:LYS:HA	1.90	0.84
30:BG:36:LYS:CE	30:BG:38:VAL:HG13	2.06	0.84
35:BN:64:ARG:HH22	35:BN:77:ILE:HA	1.41	0.84
40:BS:27:THR:HB	40:BS:93:ARG:O	1.78	0.84
40:BS:53:ARG:HH22	40:BS:101:PHE:N	1.72	0.84
43:BV:35:ILE:HG13	51:B4:28:PRO:HG3	1.59	0.84
46:BY:127:LYS:HD2	46:BY:163:LEU:CA	2.07	0.84
46:BY:129:SER:HB3	46:BY:133:ILE:HG22	1.59	0.84
46:BY:166:SER:OG	46:BY:167:PRO:HD2	1.76	0.84
32:BK:91:SER:HA	32:BK:121:LYS:HD2	1.59	0.84
32:BK:68:LEU:O	32:BK:72:LEU:HG	1.75	0.84
26:BC:97:GLU:HG3	26:BC:119:VAL:HB	1.57	0.84
1:AA:854:G:H5''	1:AA:871:U:H3	1.42	0.84
1:AA:939:G:H2'	1:AA:940:C:C6	2.11	0.84
4:AE:213:LEU:CD2	4:AE:214:ILE:HD13	2.08	0.84
4:AE:74:LYS:HE2	4:AE:76:GLN:HB2	1.59	0.84
5:AF:21:ARG:HB2	5:AF:58:GLU:HG2	1.59	0.84
6:AG:18:LYS:HA	6:AG:33:MET:CE	2.07	0.84
7:AH:32:VAL:O	7:AH:43:LEU:HG	1.77	0.84
11:AL:8:GLY:O	11:AL:76:ALA:HB1	1.77	0.84
14:AO:88:GLY:HA3	14:AO:99:HIS:NE2	1.92	0.84
5:AF:12:LEU:CG	16:AQ:57:ARG:HG3	2.08	0.84
52:B5:15:GLU:HA	52:B5:21:TYR:HA	1.60	0.84
24:BA:1061:U:H4'	24:BA:1070:A:C1'	2.07	0.84
24:BA:1144:G:H2'	24:BA:1145:C:C5	2.11	0.84
24:BA:1204:A:H5'	24:BA:1206:G:OP1	1.76	0.84
24:BA:1540:G:C5	24:BA:1541:U:H1'	2.12	0.84
24:BA:1651:G:H2'	24:BA:1652:A:C8	2.11	0.84
24:BA:1913:A:H2	24:BA:1917:U:C5	1.92	0.84
24:BA:1918:A:C8	24:BA:1918:A:OP2	2.30	0.84
24:BA:2034:U:H3'	24:BA:2035:G:C5'	2.04	0.84
24:BA:281:G:N2	24:BA:282:A:N7	2.25	0.84
24:BA:665:C:H2'	24:BA:666:G:C8	2.12	0.84
24:BA:723:G:N2	24:BA:724:U:H1'	1.92	0.84
25:BB:12:C:H5''	47:BZ:74:ARG:HG2	1.56	0.84
27:BD:142:VAL:C	27:BD:163:ALA:HB3	1.96	0.84
27:BD:246:PRO:HG3	27:BD:252:TRP:HE3	1.36	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:61:LEU:HD13	27:BD:86:PRO:HD3	1.58	0.84
27:BD:96:HIS:CE1	27:BD:102:LYS:HD3	2.12	0.84
27:BD:9:TYR:CZ	27:BD:25:THR:HG21	2.11	0.84
24:BA:2052:G:H1'	28:BE:149:ARG:C	1.97	0.84
31:BH:121:ILE:HG13	31:BH:133:VAL:HG21	1.59	0.84
31:BH:7:LEU:H	31:BH:8:PRO:CD	1.90	0.84
32:BK:7:GLU:N	32:BK:8:PRO:HD3	1.92	0.84
33:BL:79:ARG:HD3	33:BL:134:MET:SD	2.17	0.84
35:BN:122:LEU:H	40:BS:70:VAL:CG1	1.81	0.84
24:BA:873:G:H4'	37:BP:65:PHE:CE2	2.12	0.84
39:BR:37:ALA:O	39:BR:51:ALA:CB	2.25	0.84
39:BR:99:LYS:HG2	39:BR:103:GLU:OE1	1.76	0.84
44:BW:63:LYS:HE2	44:BW:63:LYS:N	1.91	0.84
45:BX:95:LYS:HG3	45:BX:103:GLY:HA3	1.59	0.84
47:BZ:44:ARG:O	47:BZ:77:ARG:HB2	1.76	0.84
1:AA:1342:C:O2'	11:AL:124:GLN:HB2	1.77	0.84
1:AA:453:A:C6	1:AA:454:C:N4	2.45	0.84
4:AE:80:ILE:CD1	4:AE:208:ILE:HG23	2.08	0.84
9:AJ:155:ARG:HA	9:AJ:155:ARG:NH1	1.93	0.84
12:AM:60:ARG:N	12:AM:60:ARG:HH11	1.76	0.84
18:AS:39:TYR:CB	18:AS:49:LEU:HD13	2.04	0.84
22:AW:40:ALA:HA	22:AW:55:ILE:CD1	2.06	0.84
23:AX:18:TYR:HB3	23:AX:22:ARG:O	1.76	0.84
53:B6:41:ARG:HH11	53:B6:41:ARG:CB	1.90	0.84
55:B8:9:ARG:HA	55:B8:34:GLN:HE22	1.42	0.84
24:BA:1263:U:C2	24:BA:1264:G:N2	2.46	0.84
24:BA:1543:A:OP2	24:BA:1544:C:C6	2.31	0.84
24:BA:1784:A:O2'	24:BA:1785:A:P	2.35	0.84
24:BA:2331:G:N2	24:BA:2385:C:N4	2.24	0.84
24:BA:2584:U:H2'	24:BA:2585:U:C6	2.12	0.84
24:BA:2688:U:H2'	24:BA:2688:U:O2	1.78	0.84
24:BA:451:C:H5	24:BA:453:C:H5'	1.41	0.84
24:BA:576:U:H2'	24:BA:577:G:H8	1.42	0.84
24:BA:95:G:H2'	48:B1:43:HIS:NE2	1.91	0.84
24:BA:95:G:O5'	48:B1:39:LEU:HB3	1.76	0.84
25:BB:32:C:H2'	25:BB:33:G:C8	2.12	0.84
27:BD:51:VAL:CB	27:BD:52:ARG:CZ	2.53	0.84
28:BE:147:PRO:HG2	28:BE:149:ARG:HD3	1.60	0.84
28:BE:4:ILE:O	28:BE:27:LEU:HD22	1.78	0.84
31:BH:136:ILE:HG23	31:BH:137:ASP:H	1.42	0.84
34:BM:3:THR:HG22	34:BM:4:TYR:H	1.41	0.84
39:BR:93:LYS:HE2	39:BR:95:HIS:HB3	1.58	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BW:17:ALA:HB1	44:BW:27:THR:OG1	1.76	0.84
26:BC:22:ILE:HG21	26:BC:190:ARG:NH1	1.91	0.84
24:BA:1113:U:H2'	24:BA:1114:G:H8	1.41	0.84
2:A1:29:G:H2'	2:A1:30:U:C5'	2.05	0.84
1:AA:524:G:H2'	1:AA:525:C:C6	2.13	0.84
10:AK:21:LYS:O	10:AK:63:LEU:HB3	1.76	0.84
13:AN:126:ARG:NH1	13:AN:126:ARG:HB3	1.93	0.84
13:AN:95:ILE:HA	13:AN:98:LEU:CD1	2.08	0.84
17:AR:39:LEU:CD2	17:AR:56:LEU:HD22	2.08	0.84
17:AR:36:ILE:CD1	17:AR:63:ARG:HD3	2.07	0.84
17:AR:64:ARG:HA	17:AR:67:LEU:HD12	1.58	0.84
19:AT:19:VAL:HG21	19:AT:46:ASP:HB2	1.57	0.84
1:AA:1327:C:OP1	23:AX:20:LYS:HB3	1.76	0.84
52:B5:20:ASN:ND2	52:B5:42:TRP:HD1	1.75	0.84
24:BA:175:G:N2	24:BA:176:G:H1'	1.92	0.84
24:BA:2043:C:N4	24:BA:2777:G:N3	2.25	0.84
24:BA:2847:U:H3'	40:BS:99:LEU:HD11	1.59	0.84
24:BA:70:G:O2'	24:BA:71:A:H5'	1.75	0.84
24:BA:714:U:H2'	24:BA:715:G:C8	2.11	0.84
24:BA:727:A:H2'	24:BA:727:A:N3	1.91	0.84
24:BA:806:C:H2'	24:BA:807:U:C6	2.12	0.84
27:BD:232:PRO:CD	27:BD:247:ALA:HA	2.08	0.84
28:BE:133:LYS:HD2	28:BE:137:HIS:CG	2.13	0.84
28:BE:91:VAL:CG1	28:BE:93:VAL:HG22	2.08	0.84
29:BF:4:VAL:C	29:BF:20:LEU:CD1	2.45	0.84
35:BN:57:VAL:HG21	35:BN:85:VAL:HG13	1.58	0.84
39:BR:11:LYS:C	39:BR:14:VAL:HB	1.97	0.84
43:BV:74:ALA:HB1	43:BV:105:VAL:HG23	1.58	0.84
44:BW:4:ALA:HB3	48:B1:21:ARG:HH12	1.39	0.84
47:BZ:51:VAL:HG11	47:BZ:79:VAL:CG2	2.06	0.84
47:BZ:5:LYS:CG	47:BZ:6:GLY:H	1.82	0.84
1:AA:233:C:O2'	1:AA:234:C:H5'	1.78	0.84
1:AA:1483:A:H8	1:AA:1483:A:O5'	1.61	0.84
1:AA:734:G:H2'	1:AA:735:C:C6	2.13	0.84
1:AA:866:C:H5	1:AA:867:G:H1'	1.38	0.84
4:AE:200:ILE:O	4:AE:202:PRO:HD3	1.75	0.84
4:AE:219:VAL:HG13	4:AE:222:ILE:HD11	1.60	0.84
4:AE:222:ILE:HB	4:AE:226:ARG:HH21	1.42	0.84
6:AG:31:CYS:O	6:AG:33:MET:HG2	1.78	0.84
7:AH:94:ALA:CB	7:AH:98:THR:HG21	2.08	0.84
10:AK:18:ARG:HA	10:AK:18:ARG:HH11	1.40	0.84
14:AO:83:VAL:CG2	14:AO:104:VAL:HB	2.07	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AP:81:LEU:HD11	15:AP:88:ARG:HH22	1.42	0.84
18:AS:21:VAL:HG13	18:AS:36:ILE:CD1	2.07	0.84
22:AW:43:LEU:HD22	22:AW:48:LYS:HB2	1.58	0.84
50:B3:38:LYS:O	50:B3:39:CYS:HB2	1.75	0.84
50:B3:68:ARG:CA	50:B3:68:ARG:HH11	1.90	0.84
52:B5:11:LEU:HD22	54:B7:35:GLN:OE1	1.78	0.84
24:BA:1202:C:C4	24:BA:1203:G:C1'	2.57	0.84
24:BA:1798:U:H5'	27:BD:257:LEU:HD12	1.57	0.84
24:BA:1971:A:H8	24:BA:1971:A:H3'	1.42	0.84
24:BA:2434:A:O2'	24:BA:2435:A:H5''	1.78	0.84
24:BA:2492:U:O2	24:BA:2492:U:H2'	1.75	0.84
24:BA:2787:C:H1'	28:BE:61:ARG:HD2	1.60	0.84
24:BA:397:G:OP2	50:B3:41:PRO:HG3	1.77	0.84
24:BA:727:A:N1	24:BA:729:G:C6	2.45	0.84
28:BE:154:LYS:HZ3	28:BE:156:MET:HE2	1.43	0.84
29:BF:157:VAL:CG1	29:BF:176:LEU:HD23	2.07	0.84
29:BF:41:LEU:HA	29:BF:44:ARG:NE	1.92	0.84
30:BG:55:LYS:HE3	30:BG:152:LEU:HD21	1.59	0.84
31:BH:149:ARG:CZ	31:BH:164:TYR:HD1	1.91	0.84
35:BN:64:ARG:CG	35:BN:64:ARG:HH21	1.90	0.84
37:BP:28:ALA:O	37:BP:29:PHE:HB2	1.76	0.84
37:BP:42:ILE:HG12	37:BP:46:GLN:NE2	1.93	0.84
40:BS:30:VAL:HG21	40:BS:90:GLN:HA	1.59	0.84
1:AA:163:C:H2'	1:AA:164:U:O4'	1.77	0.84
1:AA:1109:C:H2'	1:AA:1110:A:O4'	1.76	0.84
1:AA:1128:C:O2	1:AA:1130:A:N6	2.08	0.84
1:AA:1231:G:OP1	11:AL:127:LYS:HG2	1.78	0.84
1:AA:1327:C:H5''	23:AX:20:LYS:CD	2.07	0.84
1:AA:859:A:H2'	1:AA:860:A:O4'	1.77	0.84
1:AA:872:A:O2'	1:AA:873:A:H5''	1.76	0.84
4:AE:71:VAL:HG22	4:AE:93:VAL:HB	1.59	0.84
6:AG:197:PRO:O	6:AG:198:VAL:HG13	1.78	0.84
6:AG:20:TYR:CD1	6:AG:21:LEU:N	2.45	0.84
6:AG:7:PRO:O	6:AG:10:ARG:HB3	1.77	0.84
10:AK:103:VAL:HB	10:AK:108:GLY:CA	2.08	0.84
10:AK:50:ARG:HH11	10:AK:50:ARG:HG2	1.39	0.84
1:AA:1350:A:OP2	11:AL:118:LYS:HG3	1.76	0.84
19:AT:44:ALA:HB1	19:AT:72:ARG:HA	1.57	0.84
24:BA:1263:U:H5''	51:B4:10:LYS:NZ	1.92	0.84
24:BA:1028:A:OP2	24:BA:1126:A:N6	2.11	0.84
24:BA:1135:C:H2'	24:BA:1136:G:H8	1.42	0.84
24:BA:1213:A:N6	24:BA:1236:G:H1'	1.92	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1324:G:C3'	24:BA:1325:G:H4'	2.07	0.84
27:BD:136:ILE:HD13	27:BD:173:VAL:HG11	1.59	0.84
29:BF:110:LEU:HD11	29:BF:181:LEU:HD23	1.57	0.84
29:BF:44:ARG:HG3	29:BF:45:ARG:H	1.41	0.84
24:BA:2305:A:O2'	30:BG:136:ARG:HA	1.77	0.84
31:BH:11:VAL:CG2	31:BH:50:VAL:HG21	2.07	0.84
33:BL:9:LYS:HG2	33:BL:56:GLU:CG	2.08	0.84
34:BM:70:LYS:NZ	34:BM:86:PRO:HB3	1.93	0.84
24:BA:1161:C:H1'	42:BU:22:VAL:HG11	1.60	0.84
42:BU:32:THR:CA	42:BU:64:HIS:O	2.21	0.84
46:BY:152:ALA:O	46:BY:155:LEU:HD22	1.77	0.84
46:BY:42:VAL:HG12	46:BY:46:LYS:NZ	1.93	0.84
32:BK:94:ALA:HB1	32:BK:114:LEU:HD12	1.60	0.84
32:BK:95:LYS:O	32:BK:98:ALA:HB3	1.78	0.84
3:AD:28:G:H2'	3:AD:29:G:H8	1.43	0.84
1:AA:1085:U:H5'	1:AA:1094:G:N2	1.93	0.84
1:AA:1100:C:O2	1:AA:1102:A:H5'	1.76	0.84
1:AA:363:A:O2'	1:AA:364:A:H5'	1.76	0.84
5:AF:11:ARG:HB3	5:AF:15:THR:O	1.78	0.84
10:AK:18:ARG:CA	10:AK:18:ARG:HH11	1.90	0.84
15:AP:48:LEU:HD22	15:AP:53:VAL:HG23	1.58	0.84
50:B3:5:ILE:HD13	50:B3:60:GLN:NE2	1.93	0.84
24:BA:1151:G:H2'	24:BA:1152:C:C6	2.11	0.84
24:BA:1692:U:H1'	24:BA:1696:G:N2	1.93	0.84
24:BA:2197:U:H2'	24:BA:2224:G:H22	1.42	0.84
24:BA:2438:U:H4'	24:BA:2440:C:OP1	1.78	0.84
24:BA:2548:G:H8	24:BA:2548:G:H5'	1.43	0.84
24:BA:2712:U:O2	24:BA:2712(A):A:N7	2.09	0.84
24:BA:2756:U:N3	24:BA:2758:A:C6	2.46	0.84
24:BA:2841:C:H2'	24:BA:2842:G:C8	2.09	0.84
24:BA:295:G:O2'	24:BA:296:C:H5'	1.78	0.84
24:BA:295:G:C2	24:BA:344:G:H1'	2.12	0.84
24:BA:371:A:H5''	24:BA:423:A:C8	2.12	0.84
24:BA:578:A:C2'	24:BA:2018:G:H5''	2.07	0.84
24:BA:678:C:H2'	24:BA:679:C:H6	1.42	0.84
24:BA:724:U:O2'	24:BA:725:G:H5'	1.77	0.84
27:BD:175:LEU:O	27:BD:182:LEU:HA	1.78	0.84
28:BE:118:LYS:HE2	28:BE:118:LYS:CA	2.08	0.84
28:BE:44:TYR:HD2	28:BE:45:THR:N	1.76	0.84
30:BG:74:LYS:HG2	30:BG:75:LYS:HD2	1.58	0.84
24:BA:1006:C:O2'	34:BM:106:MET:HB3	1.78	0.84
40:BS:15:VAL:HG12	40:BS:16:ARG:O	1.78	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:BX:82:PRO:CG	45:BX:97:ARG:H	1.91	0.84
24:BA:2111:C:OP2	24:BA:2111:C:H6	1.60	0.84
24:BA:2142:C:H2'	24:BA:2143:C:C6	2.11	0.84
1:AA:1288:A:N1	1:AA:1371:G:H1'	1.92	0.84
1:AA:713:G:N2	1:AA:777:A:H1'	1.93	0.84
4:AE:215:LEU:O	4:AE:218:ALA:HB3	1.78	0.84
8:AI:3:ARG:HG3	8:AI:65:VAL:O	1.78	0.84
10:AK:28:ALA:C	10:AK:32:LYS:HD2	1.97	0.84
11:AL:63:ILE:N	11:AL:63:ILE:HD12	1.92	0.84
13:AN:40:ILE:N	13:AN:40:ILE:HD13	1.93	0.84
20:AU:53:ARG:HA	20:AU:63:GLN:NE2	1.92	0.84
49:B2:10:LYS:HG2	49:B2:12:PRO:HD3	1.60	0.84
49:B2:8:LEU:HD12	49:B2:31:LEU:O	1.78	0.84
50:B3:47:GLN:HA	50:B3:52:THR:HG21	1.60	0.84
24:BA:1143:A:H2'	24:BA:1144:G:H8	1.42	0.84
24:BA:1814:G:H2'	24:BA:1815:A:N7	1.92	0.84
24:BA:1908:C:N4	24:BA:1923:U:H3	1.75	0.84
24:BA:2275:C:H4'	24:BA:2276:G:O5'	1.77	0.84
24:BA:242:G:H2'	24:BA:254:G:C6	2.11	0.84
24:BA:422:A:H2'	24:BA:422:A:N3	1.92	0.84
24:BA:514:A:H2	24:BA:515:A:N9	1.75	0.84
24:BA:996:A:H2'	24:BA:997:G:H8	1.42	0.84
27:BD:140:THR:O	27:BD:165:ILE:HD13	1.77	0.84
27:BD:106:ILE:HD12	27:BD:192:THR:CG2	2.08	0.84
30:BG:163:ALA:HB2	30:BG:172:LEU:CD2	2.08	0.84
31:BH:124:GLU:OE1	31:BH:133:VAL:HA	1.78	0.84
35:BN:4:PRO:HG2	35:BN:5:GLN:N	1.91	0.84
35:BN:12:ASP:HB3	35:BN:93:PRO:HG2	1.59	0.84
37:BP:43:THR:O	37:BP:47:ILE:HG13	1.77	0.84
39:BR:9:ARG:HH11	39:BR:9:ARG:CA	1.90	0.84
40:BS:30:VAL:HG22	40:BS:32:TYR:CZ	2.13	0.84
41:BT:81:HIS:O	41:BT:84:LYS:HB2	1.78	0.84
44:BW:8:ILE:HD11	44:BW:42:ALA:HB2	1.59	0.84
45:BX:2:ARG:CD	45:BX:3:VAL:H	1.91	0.84
46:BY:48:PHE:HB3	46:BY:54:HIS:HE1	1.42	0.84
18:AS:44:THR:HG23	18:AS:45:THR:N	1.93	0.84
1:AA:1344:C:H4'	11:AL:120:ARG:HB3	1.59	0.83
1:AA:1472:U:O2'	1:AA:1473:A:H5'	1.78	0.83
1:AA:133:U:H3	1:AA:229:U:H3	1.26	0.83
1:AA:451:A:N6	1:AA:480:U:H2'	1.92	0.83
1:AA:761:G:C5'	19:AT:102:GLY:HA3	2.07	0.83
1:AA:1348:U:H4'	11:AL:120:ARG:HH11	1.43	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AM:27:ALA:HB2	12:AM:85:LEU:CG	2.08	0.83
24:BA:1071:G:O4'	24:BA:1089:G:N7	2.11	0.83
24:BA:1270:C:C5'	24:BA:1271:G:H5''	2.07	0.83
24:BA:1943:U:C1'	24:BA:1945:G:H5''	2.09	0.83
24:BA:2232:U:O2'	24:BA:2233:U:H5'	1.78	0.83
24:BA:251:A:H2'	24:BA:252:G:C4'	2.08	0.83
24:BA:221:A:N6	24:BA:265:A:H62	1.74	0.83
24:BA:2675:A:H5'	35:BN:29:ASN:HB3	1.58	0.83
24:BA:2821:A:H3'	24:BA:2821:A:OP2	1.76	0.83
24:BA:31:C:O2'	24:BA:32:C:H5'	1.78	0.83
24:BA:1813:G:H4'	27:BD:46:GLN:HB3	1.59	0.83
29:BF:158:THR:CG2	29:BF:196:LEU:H	1.88	0.83
29:BF:18:ARG:C	29:BF:19:GLU:HG3	1.98	0.83
42:BU:11:GLN:O	42:BU:21:ARG:HD2	1.78	0.83
42:BU:96:ILE:HD12	42:BU:96:ILE:O	1.78	0.83
43:BV:18:ARG:HD3	43:BV:76:VAL:HG12	1.59	0.83
46:BY:79:ARG:HB2	46:BY:80:ARG:NH1	1.92	0.83
32:BK:70:LYS:O	32:BK:74:ASN:HB2	1.77	0.83
1:AA:1075:C:H4'	1:AA:1101:A:N6	1.93	0.83
1:AA:1293:G:H2'	1:AA:1294:G:H8	1.41	0.83
6:AG:127:THR:C	6:AG:146:ILE:HG22	1.98	0.83
11:AL:47:LEU:HD12	11:AL:51:ARG:NH2	1.93	0.83
1:AA:1151:A:N3	12:AM:39:PRO:HG3	1.92	0.83
12:AM:61:GLU:HG2	12:AM:62:HIS:H	1.42	0.83
5:AF:12:LEU:HD21	16:AQ:57:ARG:CG	2.07	0.83
17:AR:62:GLN:HA	17:AR:65:ARG:CZ	2.07	0.83
20:AU:76:LEU:HD22	20:AU:76:LEU:H	1.41	0.83
52:B5:20:ASN:ND2	52:B5:41:PRO:HB2	1.92	0.83
24:BA:1183:G:H1'	24:BA:1184:G:C8	2.13	0.83
24:BA:1626:G:N2	24:BA:1634:A:H1'	1.92	0.83
24:BA:775:G:C2'	24:BA:794:G:N7	2.41	0.83
24:BA:860:U:C5	24:BA:2267:A:H4'	2.12	0.83
25:BB:114:G:H1'	39:BR:38:GLN:NE2	1.92	0.83
27:BD:118:VAL:H	27:BD:129:ASN:ND2	1.74	0.83
29:BF:103:LYS:CA	29:BF:106:ARG:HG2	2.08	0.83
29:BF:9:ILE:HG21	29:BF:124:LEU:HB3	1.60	0.83
38:BQ:46:GLY:C	38:BQ:49:ASP:HB3	1.97	0.83
35:BN:121:VAL:HG12	40:BS:70:VAL:O	1.78	0.83
42:BU:27:ALA:O	42:BU:33:VAL:HG21	1.78	0.83
41:BT:88:ILE:CG1	42:BU:52:VAL:HG13	2.08	0.83
45:BX:72:VAL:HG21	45:BX:96:ILE:HG12	1.60	0.83
26:BC:75:LEU:HD22	26:BC:110:PHE:CZ	2.12	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1135:U:H4'	1:AA:1136:U:C5	2.13	0.83
1:AA:570:G:N1	1:AA:866:C:N4	2.26	0.83
1:AA:817:C:O2'	1:AA:818:G:C5'	2.25	0.83
3:AC:15:G:H22	3:AC:48:C:H42	1.25	0.83
5:AF:73:PRO:HB3	5:AF:105:GLU:OE1	1.78	0.83
9:AJ:111:ARG:HD2	9:AJ:123:GLU:HB2	1.59	0.83
11:AL:98:PRO:C	11:AL:100:GLY:H	1.79	0.83
12:AM:34:VAL:HA	12:AM:74:ILE:HG12	1.59	0.83
19:AT:76:LEU:HD11	19:AT:79:SER:OG	1.77	0.83
22:AW:75:ASN:O	22:AW:78:ALA:HB3	1.78	0.83
51:B4:10:LYS:HE3	51:B4:15:ARG:CZ	2.08	0.83
54:B7:54:GLU:N	54:B7:56:GLU:OE2	2.11	0.83
24:BA:1547:C:O2'	24:BA:1548:C:H5'	1.77	0.83
24:BA:1559:G:C4	24:BA:1559:G:H3'	2.11	0.83
24:BA:1700:A:H3'	24:BA:1701:A:H8	1.41	0.83
24:BA:1971:A:C8	24:BA:1971:A:H3'	2.13	0.83
24:BA:2037:G:H2'	24:BA:2038:G:C8	2.13	0.83
24:BA:2327:A:C2'	24:BA:2328:A:H8	1.90	0.83
24:BA:2399:G:N2	24:BA:2400:G:H1'	1.93	0.83
24:BA:270(A):A:H5'	24:BA:270(B):A:OP2	1.78	0.83
24:BA:541:C:H2'	24:BA:542:C:C6	2.13	0.83
24:BA:2334:G:H22	25:BB:12:C:H42	1.23	0.83
27:BD:51:VAL:HB	27:BD:52:ARG:NE	1.93	0.83
30:BG:141:PHE:C	30:BG:143:GLU:H	1.82	0.83
30:BG:169:ALA:O	30:BG:172:LEU:HB3	1.78	0.83
35:BN:18:LYS:HE2	35:BN:44:LYS:HD3	1.60	0.83
37:BP:101:ARG:HG3	37:BP:101:ARG:NH1	1.93	0.83
38:BQ:88:ARG:HH11	38:BQ:88:ARG:CB	1.88	0.83
42:BU:43:GLU:N	42:BU:44:LYS:HZ1	1.74	0.83
43:BV:12:ILE:HG12	43:BV:101:SER:HB2	1.59	0.83
44:BW:55:ASN:HD22	44:BW:55:ASN:N	1.76	0.83
44:BW:60:ARG:HD3	44:BW:62:LYS:NZ	1.93	0.83
46:BY:51:ALA:C	46:BY:53:ILE:N	2.24	0.83
32:BK:50:ARG:O	32:BK:53:ALA:HB3	1.79	0.83
26:BC:181:PRO:HD2	26:BC:184:LYS:HD2	1.59	0.83
26:BC:89:ALA:HA	26:BC:154:ARG:HG3	1.60	0.83
1:AA:754:C:H3'	1:AA:754:C:O2	1.78	0.83
4:AE:168:THR:OG1	4:AE:192:SER:HA	1.79	0.83
4:AE:209:ARG:NH1	4:AE:213:LEU:HD12	1.94	0.83
6:AG:20:TYR:CA	6:AG:33:MET:SD	2.66	0.83
9:AJ:64:GLN:HG3	9:AJ:128:ALA:O	1.77	0.83
10:AK:36:LEU:HD12	10:AK:48:TYR:HB2	1.60	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AP:34:LEU:HD23	15:AP:39:ILE:HG13	1.59	0.83
55:B8:11:CYS:HB3	55:B8:32:HIS:CE1	2.13	0.83
24:BA:1006:C:O2	34:BM:106:MET:HG2	1.78	0.83
24:BA:111:A:H2'	24:BA:112:U:C6	2.14	0.83
24:BA:1530:G:H22	24:BA:1541:U:H2'	1.43	0.83
24:BA:1966:A:H1'	24:BA:2593:U:C5'	2.08	0.83
24:BA:2026:C:O2'	24:BA:2027:G:H5'	1.79	0.83
24:BA:2329:G:H22	24:BA:2386:C:N4	1.75	0.83
24:BA:239:U:O2'	24:BA:240:G:H5'	1.79	0.83
24:BA:24:G:H2'	24:BA:25:U:C6	2.13	0.83
24:BA:269:U:H5''	24:BA:270(Y):G:C2'	2.08	0.83
24:BA:2781:A:H2'	24:BA:2782:G:O2'	1.78	0.83
24:BA:623:G:C8	36:BO:105:LEU:HD13	2.14	0.83
24:BA:784:A:OP1	24:BA:2588:G:H5''	1.78	0.83
24:BA:811:U:C4	36:BO:22:GLY:HA3	2.13	0.83
28:BE:136:ARG:O	28:BE:136:ARG:NH2	2.11	0.83
29:BF:156:LEU:HG	29:BF:173:VAL:HG23	1.60	0.83
30:BG:114:ILE:HD12	30:BG:115:ARG:H	1.42	0.83
30:BG:50:ALA:N	30:BG:70:VAL:HG13	1.93	0.83
34:BM:57:ALA:HB3	34:BM:124:ALA:CA	2.07	0.83
34:BM:39:ARG:HB3	34:BM:48:MET:HG3	1.60	0.83
34:BM:74:ARG:O	34:BM:74:ARG:HG2	1.74	0.83
38:BQ:18:LEU:HB3	38:BQ:22:ARG:HH21	1.42	0.83
39:BR:97:ARG:O	39:BR:100:ALA:HB3	1.77	0.83
41:BT:94:ASN:ND2	42:BU:6:LYS:HE3	1.92	0.83
48:B1:1:MET:HB3	48:B1:4:GLN:HB2	1.61	0.83
24:BA:2185:C:H2'	24:BA:2186:G:H8	1.43	0.83
1:AA:1202:G:C4	16:AQ:42:ILE:HD13	2.13	0.83
1:AA:1481:U:H2'	1:AA:1482:G:C8	2.13	0.83
1:AA:218:C:H5'	1:AA:466:C:N4	1.94	0.83
4:AE:82:ARG:HB2	4:AE:94:ASN:ND2	1.94	0.83
6:AG:13:ARG:NH2	6:AG:40:PRO:HA	1.92	0.83
13:AN:33:THR:HA	13:AN:39:PRO:HA	1.58	0.83
13:AN:41:THR:OG1	13:AN:71:LYS:HD3	1.78	0.83
15:AP:78:ILE:HA	15:AP:81:LEU:CD1	2.07	0.83
17:AR:56:LEU:O	17:AR:60:VAL:HG23	1.77	0.83
19:AT:66:SER:CB	19:AT:69:LYS:HZ3	1.90	0.83
22:AW:58:LYS:O	22:AW:61:SER:OG	1.97	0.83
24:BA:1196:C:H2'	24:BA:1197:G:C8	2.13	0.83
24:BA:1541:U:O2	24:BA:1541:U:H2'	1.77	0.83
24:BA:1299:G:N2	24:BA:1640:C:H5'	1.94	0.83
24:BA:1716:U:O2	24:BA:1716:U:H2'	1.77	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:775:G:N2	24:BA:787:U:C2'	2.41	0.83
24:BA:813:U:OP2	36:BO:26:GLY:HA2	1.77	0.83
24:BA:893:C:H2'	24:BA:894:C:H6	1.43	0.83
24:BA:987:G:O2'	24:BA:1000:A:H1'	1.77	0.83
27:BD:221:VAL:O	27:BD:222:ARG:HG3	1.77	0.83
31:BH:42:ARG:O	31:BH:53:GLU:HG2	1.79	0.83
34:BM:78:TYR:O	34:BM:79:PRO:C	2.17	0.83
38:BQ:20:LEU:HD21	38:BQ:24:GLN:CG	2.07	0.83
39:BR:20:ARG:HH21	39:BR:20:ARG:CB	1.84	0.83
47:BZ:54:GLY:O	47:BZ:56:ASP:N	2.10	0.83
3:AD:17:C:H3'	3:AD:18:G:H8	1.43	0.83
1:AA:910:C:O2'	1:AA:911:U:H5'	1.78	0.83
3:AB:74:C:C4	24:BA:2555:U:C2	2.67	0.83
19:AT:4:LYS:HE2	19:AT:5:VAL:O	1.78	0.83
44:BW:7:VAL:HG21	48:B1:31:ARG:NH2	1.94	0.83
49:B2:37:LEU:HD21	49:B2:39:ASP:HA	1.60	0.83
24:BA:387:U:O5'	50:B3:29:PRO:HG3	1.77	0.83
24:BA:1170:G:N3	24:BA:1170:G:H2'	1.94	0.83
24:BA:1266:G:N7	43:BV:16:LYS:HD2	1.93	0.83
24:BA:1315:C:H2'	24:BA:1316:U:C6	2.13	0.83
24:BA:176:G:H2'	24:BA:177:G:C8	2.13	0.83
24:BA:2052:G:H2'	24:BA:2053:G:H8	1.41	0.83
24:BA:2305:A:H8	24:BA:2306:C:C5'	1.90	0.83
24:BA:2862:G:H2'	24:BA:2863:C:C6	2.12	0.83
24:BA:949:C:H2'	24:BA:950:G:H8	1.42	0.83
25:BB:13:A:H2	25:BB:69:G:H21	1.24	0.83
28:BE:49:LEU:HD13	28:BE:76:ARG:CG	2.09	0.83
29:BF:178:PRO:C	29:BF:180:GLY:H	1.82	0.83
29:BF:64:ILE:HD13	29:BF:65:TRP:H	1.43	0.83
30:BG:87:PRO:O	30:BG:88:ILE:HG13	1.79	0.83
31:BH:66:GLY:O	31:BH:69:ARG:HG2	1.79	0.83
34:BM:11:PRO:HB2	34:BM:13:TRP:HZ3	1.43	0.83
38:BQ:54:LEU:HA	38:BQ:57:ARG:HG3	1.61	0.83
41:BT:13:LYS:O	41:BT:17:ILE:HG12	1.78	0.83
42:BU:5:VAL:HG13	42:BU:38:LEU:O	1.76	0.83
43:BV:4:LYS:HA	43:BV:106:ILE:CD1	2.08	0.83
24:BA:456:C:H5	44:BW:68:ARG:NH1	1.76	0.83
45:BX:7:VAL:HG13	45:BX:71:LYS:HB3	1.59	0.83
1:AA:317:G:O2'	1:AA:318:G:H5'	1.78	0.83
1:AA:34:C:O2'	1:AA:35:G:H5'	1.77	0.83
14:AO:28:LYS:HE3	14:AO:33:ARG:HH12	1.43	0.83
14:AO:93:LEU:CD1	14:AO:96:VAL:HG21	2.08	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AP:60:VAL:HA	15:AP:63:THR:CG2	2.08	0.83
16:AQ:13:THR:HG22	16:AQ:15:LYS:HB2	1.59	0.83
49:B2:13:ILE:HG23	49:B2:14:GLY:N	1.93	0.83
24:BA:1180:C:H2'	24:BA:1181:C:C6	2.12	0.83
24:BA:152:G:H22	24:BA:175:G:H1'	1.41	0.83
24:BA:1842:G:H2'	24:BA:1843:C:C6	2.12	0.83
24:BA:2227:A:H4'	27:BD:262:ARG:HG3	1.61	0.83
24:BA:2246:G:C2	24:BA:2247:A:C5	2.67	0.83
24:BA:2286:A:H4'	24:BA:2287:A:C1'	2.08	0.83
24:BA:197:A:H62	24:BA:248:G:H22	1.24	0.83
24:BA:640:C:H2'	24:BA:641:C:H5''	1.55	0.83
24:BA:672:C:H2'	24:BA:673:C:C6	2.14	0.83
24:BA:75:G:H4'	48:B1:50:ARG:NH1	1.94	0.83
24:BA:824:A:H5''	24:BA:825:C:OP2	1.77	0.83
28:BE:104:VAL:HG12	28:BE:105:THR:N	1.94	0.83
29:BF:18:ARG:HG2	29:BF:18:ARG:HH11	1.43	0.83
30:BG:94:LEU:HB2	30:BG:99:MET:HE1	1.60	0.83
34:BM:23:LEU:CD2	34:BM:61:ARG:O	2.26	0.83
34:BM:86:PRO:HB2	34:BM:89:LYS:HZ1	1.40	0.83
35:BN:67:LYS:HA	35:BN:67:LYS:HE2	1.61	0.83
29:BF:38:ARG:NH1	36:BO:10:PRO:HA	1.93	0.83
37:BP:8:LYS:NZ	37:BP:93:TYR:HD2	1.76	0.83
41:BT:89:GLU:OE1	42:BU:50:PRO:HB3	1.79	0.83
42:BU:26:ASP:O	42:BU:29:PRO:HD2	1.79	0.83
26:BC:75:LEU:HD11	26:BC:99:ILE:HD13	1.60	0.83
1:AA:1100:C:H2'	4:AE:98:LEU:HD11	1.59	0.83
1:AA:564:C:C5	19:AT:31:LEU:HD21	2.14	0.83
3:AC:72:C:H2'	3:AC:73:A:C8	2.14	0.83
10:AK:75:ARG:HB2	10:AK:75:ARG:CZ	2.07	0.83
49:B2:19:GLN:NE2	49:B2:50:VAL:HA	1.94	0.83
51:B4:55:ARG:O	51:B4:56:LYS:HG2	1.79	0.83
53:B6:21:ARG:HB2	53:B6:21:ARG:NH1	1.94	0.83
24:BA:1312:U:C2'	24:BA:1313:U:O4'	2.23	0.83
24:BA:1334:G:H5''	44:BW:65:ARG:NH1	1.93	0.83
24:BA:1359:A:N6	24:BA:1371:G:H21	1.76	0.83
24:BA:1454:U:O2	24:BA:1454:U:H2'	1.75	0.83
24:BA:1826:G:H2'	24:BA:1827:C:H5'	1.61	0.83
24:BA:216:A:H2'	24:BA:217:G:C8	2.14	0.83
24:BA:2525:G:N2	24:BA:2539:C:C4	2.46	0.83
27:BD:133:LEU:HD11	27:BD:185:VAL:CG1	2.08	0.83
28:BE:14:ILE:H	28:BE:14:ILE:HD12	1.42	0.83
28:BE:154:LYS:NZ	28:BE:156:MET:HB2	1.94	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:BH:121:ILE:HD11	31:BH:123:PHE:CE1	2.12	0.83
39:BR:103:GLU:O	39:BR:106:ARG:HB3	1.79	0.83
43:BV:44:ALA:O	43:BV:47:VAL:HG23	1.79	0.83
46:BY:127:LYS:HB3	46:BY:162:GLU:O	1.79	0.83
32:BK:146:ALA:C	32:BK:148:GLU:H	1.79	0.83
1:AA:128:G:H5''	19:AT:2:PRO:HA	1.61	0.83
1:AA:1507:A:O2'	1:AA:1508:G:H5'	1.79	0.83
1:AA:246:A:O2'	1:AA:247:G:O4'	1.97	0.83
1:AA:265:G:H2'	1:AA:267:C:C5	2.14	0.83
1:AA:279:A:C5'	1:AA:280:C:H3'	2.08	0.83
1:AA:296:U:H2'	1:AA:297:G:C8	2.13	0.83
1:AA:399:G:H2'	1:AA:400:C:H6	1.41	0.83
1:AA:55:A:C2'	1:AA:56:U:H5'	2.09	0.83
1:AA:659:U:H2'	1:AA:660:G:H8	1.42	0.83
1:AA:677:U:H2'	1:AA:678:U:C6	2.14	0.83
1:AA:762:C:H2'	1:AA:763:G:C8	2.13	0.83
3:AB:74:C:C5	24:BA:2555:U:C4	2.66	0.83
4:AE:223:ILE:CG2	4:AE:229:VAL:HA	2.08	0.83
5:AF:84:ILE:HA	5:AF:87:LEU:HD12	1.59	0.83
7:AH:107:ARG:O	7:AH:111:GLU:HG3	1.76	0.83
18:AS:72:ARG:HH21	18:AS:73:LEU:HD23	1.43	0.83
22:AW:77:ALA:O	22:AW:80:ARG:HB2	1.79	0.83
50:B3:46:GLN:NE2	50:B3:69:LYS:HE2	1.93	0.83
50:B3:7:PRO:HG2	50:B3:60:GLN:OE1	1.79	0.83
24:BA:1203:G:N3	24:BA:1203:G:C2'	2.42	0.83
24:BA:1460:A:H5'	24:BA:1461:G:OP2	1.79	0.83
24:BA:1660:C:N4	24:BA:2001:A:N6	2.26	0.83
24:BA:1770:G:O2'	24:BA:1771:C:H5'	1.79	0.83
24:BA:1943:U:H4'	24:BA:1944:U:O5'	1.78	0.83
24:BA:2277:G:C3'	24:BA:2278:A:H5''	2.09	0.83
24:BA:2468:G:O2'	24:BA:2469:A:H5'	1.79	0.83
24:BA:2576:G:H5''	24:BA:2577:A:OP1	1.78	0.83
24:BA:2607:G:C2'	24:BA:2608:G:H5'	2.08	0.83
24:BA:2875:C:H4'	40:BS:4:GLY:H	1.44	0.83
27:BD:63:ARG:NH1	27:BD:87:ASN:HD21	1.75	0.83
27:BD:67:PHE:HD1	27:BD:153:ALA:HB3	1.42	0.83
28:BE:173:VAL:HG22	28:BE:174:ASP:H	1.40	0.83
29:BF:128:ALA:HA	29:BF:142:TRP:CH2	2.14	0.83
24:BA:673:C:H4'	29:BF:82:ILE:CD1	2.07	0.83
29:BF:89:VAL:CG1	29:BF:90:PHE:H	1.84	0.83
34:BM:104:LYS:HA	34:BM:117:PHE:CZ	2.13	0.83
24:BA:2415:G:OP1	36:BO:61:ARG:HD2	1.77	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:43:THR:HA	37:BP:94:VAL:CG1	2.07	0.83
38:BQ:100:LEU:HB2	38:BQ:112:ALA:HA	1.61	0.83
38:BQ:61:HIS:HA	38:BQ:64:ARG:HD3	1.59	0.83
40:BS:54:ARG:HD3	40:BS:55:ASN:ND2	1.94	0.83
24:BA:1156:A:OP1	41:BT:55:ARG:CZ	2.26	0.83
45:BX:50:ARG:HG3	45:BX:54:LYS:HB2	1.61	0.83
1:AA:1005:A:H5''	1:AA:1006:C:C6	2.13	0.83
1:AA:562:C:HO2'	14:AO:15:ARG:HD3	1.42	0.83
4:AE:102:LEU:H	4:AE:102:LEU:HD12	1.43	0.83
7:AH:151:LEU:HD21	10:AK:67:PRO:HG3	1.59	0.83
8:AI:85:VAL:HG11	8:AI:88:VAL:HG13	1.58	0.83
9:AJ:69:VAL:HG21	9:AJ:104:LEU:CD1	2.09	0.83
15:AP:59:TYR:CZ	15:AP:63:THR:HG21	2.14	0.83
17:AR:33:THR:O	17:AR:36:ILE:HG22	1.79	0.83
20:AU:74:ARG:HH11	20:AU:74:ARG:HG2	1.43	0.83
24:BA:1438:U:C2'	24:BA:1439:A:H5'	2.08	0.83
24:BA:1451:C:H5'	24:BA:1453:A:OP2	1.79	0.83
24:BA:752:A:N6	24:BA:1781:C:H1'	1.94	0.83
24:BA:2001:A:H2'	24:BA:2002:G:H8	1.42	0.83
24:BA:2446:G:O2'	24:BA:2448:A:H5''	1.79	0.83
24:BA:640:C:H2'	24:BA:641:C:H5'	1.58	0.83
25:BB:12:C:C5'	47:BZ:74:ARG:HG2	2.08	0.83
27:BD:119:ALA:HB1	27:BD:130:ALA:O	1.79	0.83
27:BD:169:GLU:HB3	27:BD:184:LYS:NZ	1.94	0.83
27:BD:172:TYR:HB3	27:BD:184:LYS:HG2	1.59	0.83
28:BE:91:VAL:CG2	28:BE:93:VAL:HG13	2.09	0.83
29:BF:52:LYS:O	29:BF:53:THR:HG23	1.78	0.83
30:BG:92:VAL:HG13	30:BG:94:LEU:CD1	2.09	0.83
35:BN:10:VAL:HG12	35:BN:17:ARG:HA	1.60	0.83
35:BN:43:VAL:HG11	35:BN:54:GLU:CD	1.99	0.83
36:BO:114:ILE:HG12	36:BO:130:PHE:HA	1.60	0.83
36:BO:117:GLU:O	36:BO:121:LYS:HG2	1.77	0.83
37:BP:40:ALA:HA	37:BP:98:LYS:HG3	1.60	0.83
43:BV:64:MET:HG2	43:BV:109:GLU:CG	2.08	0.83
45:BX:81:LYS:HG2	45:BX:96:ILE:HG23	1.60	0.83
25:BB:102:G:C2'	46:BY:73:GLN:HE21	1.91	0.83
32:BK:114:LEU:HD22	32:BK:130:TYR:HB3	1.58	0.83
24:BA:2132:U:H3'	24:BA:2133:G:H5''	1.59	0.83
1:AA:37:U:C3'	1:AA:37:U:C6	2.59	0.82
1:AA:482:A:N3	1:AA:482:A:H2'	1.93	0.82
1:AA:52:G:H2'	1:AA:53:A:H8	1.43	0.82
1:AA:570:G:HO2'	1:AA:819:A:H8	1.25	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:76:A:N7	24:BA:2585:U:H1'	1.94	0.82
4:AE:180:LEU:O	4:AE:181:PHE:HB2	1.78	0.82
10:AK:22:GLU:O	10:AK:62:TYR:HA	1.79	0.82
13:AN:80:VAL:H	13:AN:104:GLN:NE2	1.77	0.82
17:AR:67:LEU:O	17:AR:70:LEU:HB3	1.79	0.82
54:B7:23:VAL:HG22	54:B7:47:LYS:C	1.99	0.82
24:BA:190:A:H2'	24:BA:191:A:C8	2.14	0.82
24:BA:411:G:N2	24:BA:2408:U:N3	2.24	0.82
24:BA:2649:U:H2'	24:BA:2650:U:C6	2.13	0.82
28:BE:51:PHE:CE1	28:BE:53:PRO:HD3	2.14	0.82
29:BF:157:VAL:O	29:BF:194:MET:HB2	1.78	0.82
30:BG:135:LEU:HD22	30:BG:136:ARG:N	1.92	0.82
31:BH:7:LEU:HG	31:BH:51:ARG:NH2	1.93	0.82
33:BL:23:VAL:HG11	33:BL:38:VAL:HG23	1.61	0.82
24:BA:1076:C:H4'	33:BL:93:ARG:NH2	1.94	0.82
36:BO:29:LYS:C	36:BO:30:THR:HG23	2.00	0.82
36:BO:47:ASP:HB3	36:BO:48:PRO:CD	2.09	0.82
37:BP:112:GLU:HA	37:BP:115:MET:HG3	1.60	0.82
41:BT:32:PHE:O	41:BT:35:ALA:HB3	1.78	0.82
42:BU:6:LYS:HG2	42:BU:12:TYR:N	1.93	0.82
42:BU:49:THR:CG2	42:BU:50:PRO:HD2	2.08	0.82
26:BC:130:ILE:N	26:BC:130:ILE:HD12	1.94	0.82
24:BA:924:C:H2'	24:BA:925:C:C6	2.14	0.82
1:AA:1045:C:H2'	1:AA:1046:A:H8	1.43	0.82
1:AA:319:G:O2'	1:AA:320:C:H5'	1.79	0.82
1:AA:50:A:H5''	1:AA:51:A:C5'	2.06	0.82
3:AB:14:A:N6	3:AB:22:G:H1'	1.94	0.82
3:AC:38:A:H2'	3:AC:39:U:O4'	1.79	0.82
4:AE:81:VAL:HG12	4:AE:92:TYR:CD1	2.13	0.82
5:AF:3:ASN:ND2	5:AF:4:LYS:H	1.77	0.82
14:AO:32:PHE:HB2	14:AO:84:LEU:HD11	1.61	0.82
17:AR:31:LEU:HA	17:AR:34:LEU:CD2	2.09	0.82
17:AR:17:ARG:NH1	17:AR:77:ARG:HD3	1.94	0.82
18:AS:26:ARG:HD2	18:AS:31:LYS:N	1.94	0.82
19:AT:75:ARG:NH2	19:AT:77:VAL:HG22	1.94	0.82
20:AU:53:ARG:HH22	20:AU:60:GLY:N	1.76	0.82
51:B4:35:GLU:HB3	51:B4:49:CYS:HB3	1.61	0.82
24:BA:1312:U:H5''	44:BW:62:LYS:HB3	1.59	0.82
24:BA:1523:U:C2	24:BA:1524:G:C8	2.67	0.82
24:BA:1996:C:H2'	24:BA:1997:G:H4'	1.59	0.82
24:BA:2346:A:H62	52:B5:37:ARG:NH1	1.77	0.82
24:BA:2468:G:N2	24:BA:2481:G:H2'	1.94	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2807:G:N2	24:BA:2892:A:H62	1.77	0.82
24:BA:443:A:H4'	24:BA:1201:C:H5'	1.58	0.82
24:BA:783:A:H2'	24:BA:784:A:C4'	2.09	0.82
24:BA:558:G:P	34:BM:112:LEU:HG	2.18	0.82
37:BP:53:ALA:O	37:BP:56:ARG:HG3	1.78	0.82
39:BR:11:LYS:HA	39:BR:14:VAL:CG2	2.08	0.82
40:BS:48:ILE:HD13	40:BS:50:ILE:CD1	2.09	0.82
43:BV:6:ILE:CG1	43:BV:104:THR:HA	2.08	0.82
46:BY:24:LEU:O	46:BY:39:VAL:CB	2.21	0.82
32:BK:97:ILE:O	32:BK:100:ALA:HB3	1.79	0.82
24:BA:2123:G:H4'	26:BC:172:HIS:CG	2.13	0.82
1:AA:1269:A:H2'	1:AA:1270:C:C4'	2.09	0.82
5:AF:48:TYR:HA	5:AF:52:LEU:HD22	1.59	0.82
6:AG:155:LEU:HD23	6:AG:158:ILE:HD11	1.61	0.82
8:AI:48:LEU:N	8:AI:48:LEU:HD23	1.94	0.82
18:AS:20:VAL:HA	18:AS:36:ILE:CG1	2.08	0.82
24:BA:1051:G:H4'	24:BA:2752:C:C1'	2.10	0.82
24:BA:1302:A:H5''	24:BA:1303:G:OP2	1.79	0.82
24:BA:146:G:H3'	24:BA:147:U:H5''	1.61	0.82
24:BA:1493:C:N4	24:BA:1499:C:N3	2.26	0.82
24:BA:1743:G:H3'	24:BA:1746:G:H8	1.42	0.82
24:BA:2234:G:O2'	24:BA:2235:G:H5'	1.78	0.82
24:BA:864:G:H2'	24:BA:865:C:C1'	2.08	0.82
28:BE:11:MET:O	28:BE:21:VAL:HG23	1.79	0.82
28:BE:12:THR:HG21	28:BE:19:ARG:NH2	1.93	0.82
31:BH:163:TYR:HB3	31:BH:166:GLY:HA2	1.61	0.82
31:BH:97:ARG:HB3	31:BH:104:GLU:HG3	1.60	0.82
34:BM:37:LYS:HA	34:BM:42:TRP:HB2	1.59	0.82
24:BA:833:U:O4'	36:BO:48:PRO:HD2	1.78	0.82
36:BO:65:ARG:NH1	36:BO:68:GLN:NE2	2.28	0.82
37:BP:25:ASP:CB	37:BP:102:VAL:H	1.92	0.82
38:BQ:104:ARG:HB2	38:BQ:111:LEU:HD11	1.61	0.82
38:BQ:77:ARG:NH1	38:BQ:77:ARG:HB2	1.91	0.82
41:BT:88:ILE:HD13	41:BT:88:ILE:N	1.94	0.82
43:BV:14:PRO:C	43:BV:16:LYS:HZ1	1.81	0.82
43:BV:90:ARG:NH2	43:BV:90:ARG:H	1.76	0.82
24:BA:1487:G:O2'	24:BA:1488:G:H5'	1.79	0.82
12:AM:96:ILE:HG13	12:AM:96:ILE:O	1.79	0.82
1:AA:1327:C:C5'	23:AX:20:LYS:HD3	2.08	0.82
1:AA:1405:G:N2	1:AA:1517:G:N2	2.22	0.82
1:AA:944:G:C3'	1:AA:945:G:H5''	2.08	0.82
6:AG:26:CYS:HA	6:AG:31:CYS:HB3	1.61	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:29:PRO:HA	6:AG:34:GLU:HG2	1.59	0.82
7:AH:31:LEU:HD12	7:AH:129:ILE:CG2	2.07	0.82
7:AH:109:ILE:HD13	7:AH:135:THR:CG2	2.09	0.82
15:AP:23:TYR:HE2	15:AP:70:LEU:HD22	1.42	0.82
1:AA:582:U:H5'	17:AR:64:ARG:HH21	1.43	0.82
18:AS:74:LEU:O	18:AS:77:ALA:HB3	1.77	0.82
24:BA:1083:U:HO2'	24:BA:1084:A:H8	1.25	0.82
24:BA:1153:C:H2'	24:BA:1154:G:H8	1.45	0.82
24:BA:1206:G:H2'	24:BA:1207:C:C1'	2.09	0.82
24:BA:1300:U:H4'	24:BA:1301:A:O5'	1.79	0.82
24:BA:1394:U:H4'	24:BA:1603:A:H4'	1.60	0.82
24:BA:1664:A:H8	24:BA:1664:A:H3'	1.44	0.82
24:BA:1794:U:O2'	24:BA:1795:C:H5'	1.78	0.82
24:BA:414:C:H1'	24:BA:1864:U:H1'	1.61	0.82
24:BA:220:G:H4'	24:BA:234:C:C4'	2.09	0.82
24:BA:963:U:H1'	24:BA:2250:G:H21	1.44	0.82
24:BA:2847:U:H3'	40:BS:99:LEU:HD12	1.58	0.82
24:BA:457:A:H1'	24:BA:459:U:N3	1.94	0.82
24:BA:606:U:O5'	24:BA:606:U:H6	1.61	0.82
25:BB:9:G:H4'	39:BR:43:GLU:OE2	1.80	0.82
27:BD:60:ARG:HD3	27:BD:62:TYR:CE2	2.15	0.82
28:BE:179:GLU:HB2	28:BE:181:LEU:HD11	1.61	0.82
29:BF:7:TYR:O	29:BF:18:ARG:CG	2.27	0.82
29:BF:82:ILE:N	29:BF:82:ILE:HD13	1.93	0.82
30:BG:36:LYS:HB2	30:BG:95:ARG:HD3	1.61	0.82
35:BN:43:VAL:HG11	35:BN:54:GLU:HA	1.61	0.82
35:BN:7:TYR:HD1	35:BN:7:TYR:H	0.88	0.82
41:BT:112:ARG:HH22	42:BU:49:THR:HG22	1.44	0.82
41:BT:15:LYS:CA	41:BT:18:LEU:HD23	2.07	0.82
43:BV:88:ARG:NE	43:BV:88:ARG:HA	1.92	0.82
24:BA:1334:G:H5''	44:BW:65:ARG:HH12	1.44	0.82
46:BY:113:ALA:HB1	46:BY:145:GLU:OE1	1.79	0.82
26:BC:211:SER:HB2	26:BC:223:ARG:HH21	1.41	0.82
1:AA:1037:C:H2'	1:AA:1038:C:H6	1.45	0.82
1:AA:1338:G:H21	3:AC:41:C:H1'	1.43	0.82
1:AA:186(D):C:H2'	1:AA:186(E):C:H6	1.43	0.82
1:AA:558:G:H3'	1:AA:559:A:C5'	2.09	0.82
1:AA:764:C:C2'	1:AA:765:G:C8	2.61	0.82
4:AE:88:ALA:CB	4:AE:219:VAL:HG22	2.05	0.82
9:AJ:106:GLN:HA	9:AJ:106:GLN:HE21	1.45	0.82
1:AA:551:U:H5'	14:AO:119:LYS:HZ3	1.44	0.82
14:AO:84:LEU:HB3	14:AO:104:VAL:CG1	2.10	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AP:27:LYS:HD2	15:AP:31:LYS:NZ	1.93	0.82
1:AA:1114:C:H1'	16:AQ:60:SER:HB3	1.61	0.82
19:AT:31:LEU:O	19:AT:32:TYR:HD2	1.62	0.82
48:B1:51:GLN:HA	48:B1:54:ARG:NE	1.94	0.82
53:B6:21:ARG:CG	53:B6:31:LEU:HD21	2.08	0.82
53:B6:19:ARG:HB3	53:B6:23:ARG:NH2	1.95	0.82
24:BA:1464:C:H5'	24:BA:1528:A:O2'	1.78	0.82
24:BA:1475:G:H1	24:BA:1477:A:H62	1.20	0.82
24:BA:1725:G:H22	24:BA:1726:G:H1'	1.39	0.82
24:BA:2402:C:H5''	24:BA:2403:C:OP1	1.79	0.82
24:BA:265:A:C8	24:BA:265:A:C3'	2.56	0.82
24:BA:448:U:O2	24:BA:448:U:H2'	1.79	0.82
24:BA:572:A:H2'	24:BA:573:G:H1'	1.62	0.82
25:BB:24:G:N3	25:BB:27:C:N4	2.27	0.82
36:BO:52:GLU:HA	36:BO:55:ARG:HG3	1.59	0.82
38:BQ:99:LYS:HG2	51:B4:43:HIS:NE2	1.93	0.82
40:BS:3:ARG:O	40:BS:6:LEU:HD23	1.79	0.82
24:BA:997:G:C5'	41:BT:92:ARG:HH11	1.92	0.82
42:BU:88:ARG:O	42:BU:90:PRO:HD3	1.79	0.82
43:BV:41:LYS:NZ	43:BV:41:LYS:HB3	1.94	0.82
44:BW:43:VAL:CG1	44:BW:51:VAL:HG22	2.09	0.82
1:AA:915:A:C2'	1:AA:916:G:H5'	2.08	0.82
4:AE:104:ASN:OD1	4:AE:108:ILE:HG12	1.80	0.82
6:AG:129:ASN:OD1	6:AG:144:ASP:HB3	1.79	0.82
14:AO:60:LEU:CD1	14:AO:60:LEU:N	2.42	0.82
14:AO:8:ASN:H	14:AO:8:ASN:ND2	1.77	0.82
15:AP:81:LEU:HD22	15:AP:82:MET:HG2	1.61	0.82
20:AU:47:THR:H	20:AU:49:LYS:HZ3	1.26	0.82
20:AU:74:ARG:NH1	20:AU:74:ARG:HG2	1.94	0.82
50:B3:47:GLN:HA	50:B3:52:THR:CG2	2.10	0.82
24:BA:1119:C:H2'	24:BA:1120:G:C8	2.15	0.82
24:BA:2767:C:C2	24:BA:2768:C:C5	2.68	0.82
24:BA:607:U:H2'	24:BA:607:U:O2	1.78	0.82
24:BA:783:A:H3'	27:BD:227:ASN:ND2	1.94	0.82
24:BA:931:G:N2	49:B2:24:LYS:HB3	1.93	0.82
27:BD:181:GLU:HA	27:BD:270:ILE:HG21	1.61	0.82
28:BE:124:GLY:HA3	28:BE:136:ARG:CB	2.09	0.82
28:BE:111:ARG:H	28:BE:161:GLY:HA3	1.43	0.82
29:BF:139:PHE:O	29:BF:142:TRP:HB3	1.78	0.82
31:BH:26:VAL:HG12	31:BH:79:VAL:HG11	1.62	0.82
31:BH:29:PRO:HD3	31:BH:79:VAL:O	1.79	0.82
33:BL:79:ARG:HD3	33:BL:134:MET:CG	2.09	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BO:16:ARG:CD	36:BO:19:VAL:HG22	2.10	0.82
40:BS:51:ARG:O	40:BS:66:VAL:HA	1.80	0.82
41:BT:99:ALA:HA	41:BT:106:PHE:CG	2.14	0.82
46:BY:42:VAL:HG12	46:BY:46:LYS:HZ3	1.45	0.82
1:AA:1044:A:H2'	1:AA:1045:C:H5'	1.62	0.82
1:AA:166:G:O2'	1:AA:167:G:H5'	1.80	0.82
1:AA:370:C:O2'	1:AA:371:G:H5'	1.78	0.82
1:AA:573:A:N3	1:AA:883:C:O2'	2.13	0.82
4:AE:17:PHE:O	4:AE:42:ILE:HG22	1.79	0.82
5:AF:10:PHE:HD1	5:AF:178:LEU:HD22	1.44	0.82
6:AG:194:LEU:HD22	6:AG:194:LEU:N	1.95	0.82
1:AA:9:G:H5''	7:AH:126:ARG:CD	2.10	0.82
15:AP:90:LEU:HD23	15:AP:93:ARG:HD2	1.61	0.82
19:AT:8:GLY:O	19:AT:56:VAL:HG13	1.80	0.82
51:B4:55:ARG:H	51:B4:55:ARG:HD3	1.45	0.82
24:BA:141:A:C2	24:BA:1596:A:O2'	2.32	0.82
24:BA:1531:C:H2'	24:BA:1532:C:C5	2.15	0.82
24:BA:1780:A:C3'	24:BA:1781:C:H5'	2.09	0.82
24:BA:1783:A:H5''	24:BA:1784:A:OP1	1.79	0.82
24:BA:1813:G:O2'	27:BD:52:ARG:NH2	2.12	0.82
24:BA:1941:C:H2'	24:BA:1942:C:O5'	1.77	0.82
24:BA:574:C:C2	24:BA:2055:C:H5	1.98	0.82
24:BA:221:A:H4'	24:BA:222:A:C5'	2.07	0.82
24:BA:2345:G:O2'	24:BA:2346:A:OP2	1.98	0.82
24:BA:2063:C:H1'	24:BA:2451:A:H2	1.43	0.82
24:BA:2799:A:O2'	24:BA:2802:G:C6	2.33	0.82
24:BA:558:G:H5'	34:BM:112:LEU:CD1	2.09	0.82
24:BA:702:G:O2'	24:BA:703:U:H5'	1.78	0.82
24:BA:828:U:C2'	24:BA:829:A:H8	1.89	0.82
24:BA:960:A:H5''	24:BA:961:C:OP1	1.79	0.82
29:BF:34:TRP:CD2	36:BO:8:PRO:HB2	2.15	0.82
37:BP:85:LYS:C	37:BP:87:LYS:H	1.81	0.82
38:BQ:42:LYS:O	38:BQ:45:ARG:HB3	1.80	0.82
39:BR:11:LYS:HA	39:BR:14:VAL:HG21	1.60	0.82
35:BN:77:ILE:HD13	40:BS:65:LYS:CE	2.10	0.82
47:BZ:32:ARG:HB2	47:BZ:32:ARG:NH1	1.95	0.82
32:BK:93:THR:HG23	32:BK:95:LYS:HB3	1.61	0.82
33:BL:98:ARG:HD3	33:BL:139:VAL:HB	1.60	0.82
5:AF:120:VAL:O	5:AF:123:GLN:HB2	1.79	0.82
5:AF:55:VAL:HG22	5:AF:68:VAL:HG13	1.62	0.82
8:AI:89:MET:HB2	20:AU:76:LEU:HD11	1.60	0.82
10:AK:40:ALA:CA	10:AK:45:ILE:HG23	2.08	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:AT:29:HIS:ND1	19:AT:31:LEU:N	2.27	0.82
19:AT:4:LYS:HD2	19:AT:5:VAL:N	1.95	0.82
8:AI:97:PHE:CD2	20:AU:31:LEU:HD13	2.13	0.82
20:AU:78:LEU:C	20:AU:79:LEU:HD12	2.00	0.82
24:BA:1085:A:H1'	24:BA:1086:A:C4'	2.10	0.82
24:BA:1341:U:OP2	24:BA:1397:U:N3	2.13	0.82
24:BA:1430:C:H2'	24:BA:1431:U:C6	2.15	0.82
24:BA:1791:A:O4'	27:BD:209:ALA:HB2	1.79	0.82
24:BA:1819:A:H1'	24:BA:1821:A:N3	1.94	0.82
24:BA:2208:U:H4'	27:BD:151:LYS:NZ	1.94	0.82
24:BA:2459:A:C5	24:BA:2493:U:O4	2.33	0.82
24:BA:570:G:H1	24:BA:2498:C:C4'	1.92	0.82
24:BA:2074:U:O2'	24:BA:2598:A:H1'	1.80	0.82
24:BA:2690:C:C5	38:BQ:14:SER:HB2	2.15	0.82
24:BA:6:A:H4'	34:BM:132:ALA:O	1.78	0.82
24:BA:756:C:H2'	24:BA:757:U:H5'	1.59	0.82
24:BA:816:C:H5'	24:BA:816:C:H6	1.45	0.82
27:BD:118:VAL:O	27:BD:129:ASN:HA	1.79	0.82
27:BD:21:PHE:O	27:BD:205:VAL:HG22	1.79	0.82
30:BG:6:ALA:HA	30:BG:9:ARG:NH2	1.94	0.82
32:BK:22:LYS:HB3	32:BK:23:PRO:HD2	1.61	0.82
34:BM:87:LEU:C	34:BM:90:MET:HB2	2.00	0.82
35:BN:24:VAL:CG2	35:BN:26:LYS:HG2	2.10	0.82
35:BN:7:TYR:N	35:BN:7:TYR:CD1	2.25	0.82
24:BA:627:A:H5''	36:BO:75:ILE:HB	1.59	0.82
46:BY:144:LEU:CB	46:BY:174:VAL:HG11	2.10	0.82
46:BY:177:PRO:HG2	46:BY:178:GLU:H	1.44	0.82
32:BK:87:LYS:HE3	32:BK:122:GLU:OE2	1.78	0.82
1:AA:1315:U:O2'	1:AA:1360:A:C4	2.32	0.82
1:AA:1237:C:O2	1:AA:1335:C:H5'	1.80	0.82
1:AA:1514:C:H2'	1:AA:1515:C:C6	2.15	0.82
1:AA:179:A:H3'	1:AA:180:U:C5	2.13	0.82
4:AE:16:HIS:O	4:AE:204:ASN:HB2	1.79	0.82
10:AK:41:ARG:NH1	10:AK:41:ARG:HB3	1.93	0.82
12:AM:9:ARG:O	12:AM:94:VAL:HG13	1.79	0.82
14:AO:86:ARG:HH12	14:AO:119:LYS:CG	1.90	0.82
17:AR:49:ASP:O	17:AR:49:ASP:CG	2.18	0.82
48:B1:52:ILE:O	48:B1:55:LEU:HB2	1.80	0.82
49:B2:22:ALA:HB1	49:B2:46:ASN:OD1	1.80	0.82
50:B3:59:PHE:HA	50:B3:62:ARG:CD	2.10	0.82
52:B5:12:GLU:HG2	52:B5:13:CYS:N	1.94	0.82
52:B5:11:LEU:HD13	54:B7:35:GLN:HE22	1.45	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1423:G:H2'	24:BA:1424:G:C8	2.14	0.82
24:BA:1743:G:H4'	24:BA:1743:G:OP1	1.78	0.82
24:BA:1944:U:H1'	24:BA:1955:U:C1'	2.09	0.82
24:BA:2012:G:OP1	43:BV:98:LYS:HG3	1.80	0.82
24:BA:2375:G:N2	24:BA:2378:A:N6	2.26	0.82
24:BA:270(P):C:H2'	24:BA:270(Q):C:C6	2.14	0.82
24:BA:878:A:C4	24:BA:879:G:N7	2.47	0.82
27:BD:54:ARG:C	27:BD:219:PRO:HD2	1.99	0.82
28:BE:170:LEU:N	28:BE:170:LEU:HD23	1.95	0.82
35:BN:106:LEU:HB2	40:BS:39:ARG:NH2	1.95	0.82
37:BP:42:ILE:CD1	37:BP:47:ILE:HG13	2.10	0.82
37:BP:42:ILE:CG2	37:BP:95:ALA:HB3	2.09	0.82
42:BU:73:SER:HG	42:BU:89:GLN:HB2	1.45	0.82
18:AS:44:THR:CG2	18:AS:45:THR:H	1.90	0.82
1:AA:789:U:H6	1:AA:790:A:H5''	1.43	0.82
1:AA:872:A:C2'	1:AA:873:A:H5''	2.08	0.82
1:AA:959:A:H2'	1:AA:960:U:H4'	1.59	0.82
4:AE:134:GLU:HG3	4:AE:138:LEU:HD11	1.62	0.82
4:AE:188:ALA:HB1	4:AE:192:SER:OG	1.78	0.82
5:AF:182:ILE:HG23	5:AF:202:ILE:O	1.79	0.82
6:AG:135:LEU:O	6:AG:137:SER:N	2.11	0.82
7:AH:91:LEU:HD23	7:AH:91:LEU:O	1.80	0.82
12:AM:72:VAL:O	12:AM:73:ASP:HB2	1.78	0.82
13:AN:84:VAL:HG21	13:AN:110:ASP:HA	1.61	0.82
24:BA:1375:C:H2'	24:BA:1376:C:C6	2.13	0.82
24:BA:1343:G:H1'	24:BA:1597:A:C2	2.15	0.82
24:BA:1775:U:H2'	24:BA:1776:G:O4'	1.78	0.82
24:BA:1834:U:H1'	24:BA:1969:A:C2	2.14	0.82
24:BA:2091:U:C2'	24:BA:2092:U:H5'	2.09	0.82
24:BA:2269:A:H3'	24:BA:2269:A:OP1	1.80	0.82
24:BA:2497:A:H2'	24:BA:2498:C:OP2	1.79	0.82
24:BA:2568:C:C2'	24:BA:2569:G:H5'	2.10	0.82
24:BA:2747:G:O6	24:BA:2755:C:H5'	1.80	0.82
24:BA:303:U:H2'	24:BA:304:G:O4'	1.78	0.82
24:BA:881:G:N2	24:BA:896:A:N6	2.27	0.82
27:BD:147:LEU:HG	27:BD:154:LYS:CD	2.10	0.82
30:BG:139:LEU:HB3	30:BG:142:PRO:HB3	1.60	0.82
30:BG:78:SER:HB2	30:BG:82:LEU:CB	2.10	0.82
34:BM:10:GLU:OE2	34:BM:39:ARG:HD2	1.79	0.82
34:BM:23:LEU:CD1	34:BM:63:THR:HG23	2.09	0.82
35:BN:11:ALA:HB3	35:BN:97:ARG:HH12	1.43	0.82
24:BA:663:G:H4'	36:BO:18:ARG:HH11	1.45	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BO:37:GLY:C	36:BO:40:SER:HB3	2.00	0.82
38:BQ:53:HIS:O	38:BQ:56:LYS:HG3	1.80	0.82
38:BQ:83:ILE:HD12	38:BQ:86:ARG:HE	1.43	0.82
42:BU:41:GLY:CA	42:BU:51:VAL:HG22	2.09	0.82
43:BV:14:PRO:CD	43:BV:78:GLU:OE1	2.26	0.82
43:BV:33:ARG:HH12	43:BV:48:ALA:HB2	1.43	0.82
44:BW:16:LYS:HE2	44:BW:16:LYS:H	1.44	0.82
47:BZ:23:VAL:HA	47:BZ:38:VAL:HG13	1.62	0.82
24:BA:2121:G:H1'	26:BC:167:LYS:HZ3	1.41	0.82
24:BA:1510:A:H2'	24:BA:1511:A:C2	2.15	0.82
1:AA:1312:G:O2'	1:AA:1313:U:H5'	1.79	0.81
1:AA:264:U:H2'	1:AA:264:U:O2	1.78	0.81
1:AA:42:G:H2'	1:AA:43:C:C6	2.14	0.81
1:AA:474:G:H5'	18:AS:81:ARG:HG3	1.60	0.81
1:AA:87:A:N7	1:AA:88:C:C4	2.48	0.81
1:AA:915:A:H2'	1:AA:916:G:H5'	1.59	0.81
1:AA:988:G:H2'	1:AA:989:C:O4'	1.80	0.81
4:AE:165:VAL:HG23	4:AE:166:ASP:H	1.43	0.81
7:AH:72:GLN:NE2	7:AH:144:THR:HG23	1.93	0.81
10:AK:18:ARG:CA	10:AK:18:ARG:NH1	2.43	0.81
48:B1:12:SER:HB3	48:B1:13:PRO:CD	2.09	0.81
49:B2:35:ARG:HH12	49:B2:47:VAL:HG22	1.45	0.81
24:BA:1664:A:H2'	24:BA:1665:A:C8	2.15	0.81
24:BA:1778:U:H2'	24:BA:1779:U:C6	2.15	0.81
24:BA:2459:A:H2	24:BA:2492:U:O4	1.63	0.81
24:BA:2458:G:N7	24:BA:2490:G:C6	2.47	0.81
24:BA:2809:A:O4'	24:BA:2811:G:N7	2.13	0.81
24:BA:2820:A:H5'	24:BA:2821:A:N7	1.95	0.81
24:BA:647:G:H2'	24:BA:648:G:H8	1.45	0.81
24:BA:746:A:O2'	24:BA:747:U:P	2.37	0.81
24:BA:855:G:H21	47:BZ:27:GLU:CB	1.93	0.81
28:BE:22:PRO:HA	28:BE:185:LYS:HA	1.59	0.81
29:BF:25:PRO:O	29:BF:28:ILE:HG22	1.78	0.81
34:BM:109:LYS:NZ	34:BM:110:GLY:N	2.27	0.81
36:BO:45:LEU:HB3	36:BO:46:LYS:HE2	1.62	0.81
40:BS:111:ARG:HA	40:BS:114:LEU:CD1	2.10	0.81
41:BT:13:LYS:O	41:BT:16:LYS:HB3	1.80	0.81
47:BZ:19:LYS:HG2	47:BZ:20:ARG:H	1.45	0.81
3:AD:22:G:H2'	3:AD:23:A:H8	1.45	0.81
24:BA:2102:U:H2'	24:BA:2103:C:C6	2.15	0.81
1:AA:1156:G:H1'	1:AA:1179:A:N6	1.94	0.81
1:AA:1226:C:H5''	15:AP:103:THR:O	1.78	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:29:G:H5'	1:AA:296:U:OP1	1.80	0.81
1:AA:867:G:H2'	1:AA:868:C:C6	2.16	0.81
1:AA:917:G:O2'	1:AA:918:A:H5'	1.80	0.81
5:AF:190:ARG:HA	5:AF:190:ARG:HE	1.43	0.81
9:AJ:109:ASN:O	9:AJ:119:ARG:CZ	2.28	0.81
10:AK:82:HIS:O	10:AK:137:VAL:HG13	1.80	0.81
14:AO:12:ARG:HB3	14:AO:12:ARG:NH1	1.95	0.81
14:AO:27:LEU:O	14:AO:29:GLY:N	2.12	0.81
51:B4:15:ARG:HG3	51:B4:16:ARG:H	1.44	0.81
52:B5:12:GLU:CG	52:B5:13:CYS:H	1.93	0.81
24:BA:150:C:H2'	24:BA:150:C:O2	1.78	0.81
24:BA:1542:G:C1'	24:BA:1543:A:C6	2.63	0.81
24:BA:1642:G:O2'	24:BA:1643:G:H5'	1.79	0.81
24:BA:1460:A:N1	24:BA:1732:A:N1	2.28	0.81
24:BA:2384:G:OP2	24:BA:2384:G:H8	1.63	0.81
24:BA:2416:C:H2'	24:BA:2417:C:C5'	2.05	0.81
24:BA:241:A:H1'	24:BA:243:U:C1'	2.10	0.81
24:BA:2537:U:H2'	24:BA:2538:C:C6	2.15	0.81
24:BA:269:U:C5'	24:BA:270(Y):G:H2'	2.09	0.81
24:BA:2816:C:O2'	24:BA:2817:G:H5'	1.79	0.81
24:BA:970:C:H2'	24:BA:971:C:C6	2.15	0.81
25:BB:46:A:H2'	25:BB:47:C:H6	1.41	0.81
28:BE:92:THR:H	28:BE:95:ILE:HD13	1.43	0.81
30:BG:102:PHE:CD2	30:BG:106:LEU:HD12	2.15	0.81
30:BG:49:ASP:CA	30:BG:53:LEU:HD22	2.09	0.81
31:BH:94:TYR:C	31:BH:95:ARG:HD2	2.00	0.81
32:BK:23:PRO:O	32:BK:27:ARG:HB2	1.79	0.81
34:BM:89:LYS:HG2	34:BM:90:MET:N	1.96	0.81
35:BN:97:ARG:HG3	35:BN:117:LEU:CD2	2.10	0.81
35:BN:21:CYS:HA	35:BN:41:ALA:HB2	1.62	0.81
29:BF:38:ARG:HH12	36:BO:10:PRO:HA	1.44	0.81
24:BA:2415:G:H5''	36:BO:61:ARG:HD2	1.62	0.81
24:BA:2876:G:H4'	40:BS:1:MET:N	1.95	0.81
42:BU:6:LYS:HZ3	42:BU:10:LYS:HB3	1.44	0.81
44:BW:4:ALA:HB3	48:B1:21:ARG:NH1	1.94	0.81
44:BW:84:ALA:HB3	44:BW:85:PRO:HD3	1.62	0.81
25:BB:76:G:H4'	46:BY:85:HIS:HB2	1.59	0.81
3:AD:21:A:H2'	3:AD:22:G:O4'	1.79	0.81
45:BX:41:GLY:HA3	45:BX:61:ILE:O	1.79	0.81
1:AA:657:G:H2'	1:AA:658:G:H5'	1.61	0.81
3:AB:63:G:O4'	24:BA:2482:G:O2'	1.97	0.81
3:AC:17:C:H5''	3:AC:19:G:OP2	1.79	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:40:C:C2'	3:AC:41:C:H5'	2.08	0.81
4:AE:16:HIS:HA	4:AE:204:ASN:HB2	1.62	0.81
6:AG:12:CYS:HB3	6:AG:33:MET:HE3	1.62	0.81
6:AG:168:ARG:CD	6:AG:168:ARG:H	1.94	0.81
4:AE:181:PHE:CD1	10:AK:71:GLY:HA3	2.15	0.81
13:AN:95:ILE:HA	13:AN:98:LEU:CG	2.09	0.81
1:AA:523:A:H61	14:AO:53:ARG:HH22	1.23	0.81
18:AS:56:ALA:HB3	18:AS:79:VAL:HG11	1.61	0.81
19:AT:4:LYS:CD	19:AT:5:VAL:H	1.94	0.81
20:AU:45:SER:OG	20:AU:51:LEU:HD11	1.80	0.81
20:AU:74:ARG:CG	20:AU:81:PHE:HB3	2.09	0.81
1:AA:958:A:C2	21:AV:55:LYS:HB2	2.16	0.81
22:AW:51:GLU:HB3	22:AW:54:LYS:NZ	1.95	0.81
22:AW:64:ASP:O	22:AW:67:ALA:N	2.12	0.81
50:B3:20:ASN:HB2	50:B3:30:GLU:CD	2.01	0.81
24:BA:2330:G:H1	24:BA:2385:C:N4	1.78	0.81
24:BA:2352:A:H2'	24:BA:2353:G:O4'	1.81	0.81
24:BA:1864:U:H4'	24:BA:2409:G:H22	1.44	0.81
24:BA:2498:C:H2'	24:BA:2499:C:H5''	1.59	0.81
24:BA:624:C:H3'	24:BA:624:C:C6	2.15	0.81
28:BE:173:VAL:CG2	28:BE:174:ASP:N	2.42	0.81
28:BE:7:VAL:CG2	28:BE:192:ASN:HA	2.10	0.81
29:BF:104:LYS:HG3	29:BF:108:LYS:NZ	1.94	0.81
31:BH:102:ALA:C	31:BH:115:VAL:HG12	2.00	0.81
34:BM:33:LEU:HD13	34:BM:34:LEU:HG	1.60	0.81
34:BM:4:TYR:OH	41:BT:101:ARG:HB3	1.80	0.81
40:BS:5:ALA:O	40:BS:9:LEU:HG	1.79	0.81
41:BT:55:ARG:NH1	41:BT:55:ARG:HG2	1.87	0.81
45:BX:86:ARG:HG2	45:BX:91:GLU:HB3	1.59	0.81
47:BZ:72:ARG:HG3	47:BZ:78:TYR:HB2	1.63	0.81
25:BB:11:C:H3'	47:BZ:74:ARG:CZ	2.11	0.81
1:AA:620:C:H2'	1:AA:621:A:O4'	1.81	0.81
3:AC:50:U:H2'	3:AC:51:U:O4'	1.79	0.81
4:AE:61:LEU:HA	4:AE:64:ARG:HD3	1.61	0.81
6:AG:30:LYS:N	6:AG:34:GLU:HB3	1.95	0.81
12:AM:94:VAL:HG12	12:AM:95:GLU:N	1.93	0.81
48:B1:20:VAL:HG21	48:B1:56:LEU:HD11	1.61	0.81
50:B3:68:ARG:NH1	50:B3:68:ARG:HB2	1.95	0.81
24:BA:1085:A:O2'	24:BA:1086:A:O4'	1.98	0.81
24:BA:1312:U:H2'	24:BA:1313:U:H6	1.40	0.81
24:BA:1802:A:H3'	24:BA:1803:A:C8	2.14	0.81
24:BA:1983:C:O2'	24:BA:1984:G:H5'	1.79	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:221:A:N6	24:BA:265:A:N6	2.27	0.81
24:BA:2865:U:C4	24:BA:2866:U:C5	2.69	0.81
24:BA:477:A:H2'	24:BA:478:A:C8	2.14	0.81
24:BA:970:C:H2'	24:BA:971:C:H6	1.45	0.81
25:BB:40:U:H1'	25:BB:45:A:H62	1.43	0.81
27:BD:108:PRO:HB2	27:BD:111:LEU:HD21	1.63	0.81
28:BE:5:LEU:HD13	28:BE:196:VAL:O	1.79	0.81
29:BF:4:VAL:O	29:BF:20:LEU:HD12	1.76	0.81
30:BG:30:GLU:HA	30:BG:33:ARG:HG2	1.63	0.81
30:BG:52:ILE:HG12	30:BG:148:MET:SD	2.19	0.81
30:BG:77:ILE:CA	30:BG:83:ARG:HE	1.91	0.81
31:BH:11:VAL:O	31:BH:11:VAL:HG12	1.80	0.81
34:BM:37:LYS:CD	34:BM:43:THR:HA	2.10	0.81
36:BO:92:GLU:OE1	36:BO:126:VAL:HG13	1.79	0.81
36:BO:15:ARG:NH2	36:BO:16:ARG:HB2	1.94	0.81
40:BS:53:ARG:CZ	40:BS:102:ILE:HG12	2.11	0.81
44:BW:27:THR:CB	44:BW:80:ILE:HD12	2.09	0.81
45:BX:82:PRO:HG3	45:BX:97:ARG:H	1.43	0.81
46:BY:24:LEU:HD23	46:BY:25:PRO:HD2	1.62	0.81
24:BA:2261:C:OP2	47:BZ:17:GLN:HB2	1.81	0.81
47:BZ:19:LYS:C	47:BZ:20:ARG:HD2	2.01	0.81
32:BK:86:THR:HG22	32:BK:87:LYS:H	1.45	0.81
3:AD:56:C:H5''	26:BC:133:PRO:HG2	1.62	0.81
26:BC:77:ILE:HD12	26:BC:123:VAL:HG13	1.62	0.81
26:BC:62:VAL:HG22	26:BC:63:SER:H	1.46	0.81
24:BA:1488:G:H2'	24:BA:1489:U:C5'	2.10	0.81
24:BA:1511:A:H2'	24:BA:1512:G:C5'	2.10	0.81
1:AA:228:A:H2'	1:AA:229:U:H5'	1.61	0.81
4:AE:102:LEU:CD2	4:AE:176:GLU:HB3	2.09	0.81
6:AG:21:LEU:HD13	6:AG:67:ILE:HG22	1.62	0.81
9:AJ:29:LYS:HE3	9:AJ:101:LEU:HD13	1.61	0.81
19:AT:97:SER:O	19:AT:98:LEU:HD22	1.80	0.81
51:B4:15:ARG:HG3	51:B4:16:ARG:N	1.95	0.81
43:BV:39:THR:HG23	51:B4:28:PRO:HB3	1.62	0.81
24:BA:2297:C:H2'	24:BA:2298:A:C8	2.15	0.81
24:BA:2331:G:N2	24:BA:2385:C:C4	2.49	0.81
27:BD:172:TYR:O	27:BD:184:LYS:HE2	1.80	0.81
28:BE:8:LYS:O	28:BE:192:ASN:HB2	1.79	0.81
31:BH:17:VAL:HG22	31:BH:45:VAL:HG21	1.61	0.81
33:BL:24:GLY:HA2	33:BL:34:ILE:HG12	1.63	0.81
34:BM:107:LEU:HD23	34:BM:107:LEU:C	2.00	0.81
35:BN:117:LEU:HD23	35:BN:118:ALA:N	1.95	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BN:59:LYS:HE2	35:BN:59:LYS:N	1.96	0.81
35:BN:97:ARG:NE	35:BN:97:ARG:C	2.34	0.81
37:BP:51:ARG:HD3	37:BP:52:VAL:N	1.96	0.81
41:BT:55:ARG:HD2	41:BT:55:ARG:H	1.46	0.81
45:BX:74:PRO:HG2	45:BX:76:CYS:HB3	1.61	0.81
26:BC:22:ILE:HB	26:BC:190:ARG:HH22	1.45	0.81
26:BC:10:LEU:HD11	26:BC:32:LEU:HB3	1.62	0.81
1:AA:1037:C:H2'	1:AA:1038:C:C6	2.16	0.81
1:AA:1145:C:H1'	1:AA:1146:A:C8	2.15	0.81
1:AA:1202:G:H2'	1:AA:1203:C:C6	2.15	0.81
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.15	0.81
1:AA:174:C:H2'	1:AA:175:C:C6	2.14	0.81
1:AA:129(A):G:N2	1:AA:191(A):G:C5	2.49	0.81
1:AA:423:G:H2'	1:AA:424:G:O4'	1.80	0.81
3:AD:76:A:C3'	24:BA:2432:A:H4'	2.11	0.81
4:AE:150:SER:HA	4:AE:153:ARG:CB	2.09	0.81
5:AF:46:GLU:HB3	5:AF:47:LEU:HD22	1.62	0.81
6:AG:155:LEU:H	6:AG:158:ILE:HG13	1.45	0.81
7:AH:115:VAL:HG21	7:AH:118:ILE:HD12	1.61	0.81
9:AJ:35:LYS:HZ1	9:AJ:38:LEU:HD22	1.43	0.81
11:AL:19:LEU:HD23	11:AL:60:ASP:O	1.81	0.81
11:AL:97:LYS:NZ	11:AL:102:LEU:HD13	1.95	0.81
1:AA:761:G:H5'	19:AT:103:GLY:N	1.96	0.81
20:AU:55:ARG:HH11	20:AU:55:ARG:HB3	1.44	0.81
22:AW:85:MET:HA	22:AW:88:VAL:HG23	1.63	0.81
48:B1:28:MET:HA	48:B1:31:ARG:HG3	1.61	0.81
24:BA:1139:G:H2'	24:BA:1140:C:H5''	1.59	0.81
24:BA:1203:G:N1	24:BA:1241:A:H8	1.78	0.81
24:BA:1889:A:H2'	24:BA:1890:A:C8	2.16	0.81
24:BA:860:U:C6	24:BA:2267:A:H4'	2.15	0.81
24:BA:2289:G:H5'	24:BA:2384:G:H1'	1.61	0.81
24:BA:704:G:N2	24:BA:725:G:N2	2.27	0.81
24:BA:775:G:N2	24:BA:787:U:H2'	1.95	0.81
27:BD:57:GLY:N	27:BD:217:ARG:HD2	1.94	0.81
31:BH:7:LEU:HB2	31:BH:52:VAL:HG13	1.61	0.81
35:BN:9:GLU:HA	35:BN:17:ARG:O	1.80	0.81
37:BP:12:GLN:NE2	37:BP:13:GLN:HE21	1.78	0.81
38:BQ:54:LEU:O	38:BQ:57:ARG:HB2	1.81	0.81
39:BR:73:LEU:H	39:BR:73:LEU:HD13	1.44	0.81
39:BR:74:ALA:HB1	39:BR:108:GLY:HA3	1.61	0.81
45:BX:37:VAL:HG12	45:BX:64:GLU:HG2	1.63	0.81
32:BK:113:ARG:NH2	32:BK:132:PRO:HB3	1.95	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BK:115:ALA:HB1	32:BK:128:LEU:HD22	1.63	0.81
39:BR:33:LYS:HE2	39:BR:54:LEU:HD21	1.60	0.81
1:AA:114:U:H2'	1:AA:115:G:C8	2.15	0.81
1:AA:1395:C:OP2	1:AA:1395:C:H3'	1.81	0.81
1:AA:410:G:N3	1:AA:432:A:N6	2.28	0.81
7:AH:29:GLY:HA2	7:AH:46:GLY:O	1.80	0.81
8:AI:48:LEU:HD12	8:AI:50:TYR:O	1.79	0.81
10:AK:33:GLU:HA	10:AK:36:LEU:HD21	1.61	0.81
13:AN:54:ARG:HH11	13:AN:54:ARG:HG3	1.44	0.81
22:AW:11:SER:HA	22:AW:13:LEU:CD1	2.11	0.81
24:BA:987:G:OP1	49:B2:13:ILE:HG21	1.81	0.81
24:BA:1049:C:H42	24:BA:1050:A:N6	1.77	0.81
24:BA:1125:G:H4'	55:B8:4:ARG:HB3	1.60	0.81
24:BA:1131:G:OP1	34:BM:79:PRO:HD3	1.80	0.81
24:BA:1264:G:O6	24:BA:1265:A:N7	2.13	0.81
24:BA:1403:C:H4'	24:BA:1471:A:H5'	1.62	0.81
24:BA:1742:C:H2'	24:BA:1743:G:H4'	1.61	0.81
24:BA:2195:C:H2'	24:BA:2196:C:O4'	1.81	0.81
24:BA:2623:G:H5'	24:BA:2826:A:H1'	1.63	0.81
24:BA:336:C:C2'	24:BA:337:C:H5'	2.09	0.81
24:BA:475:U:H4'	24:BA:510:C:OP2	1.80	0.81
24:BA:829:A:H5''	24:BA:830:G:H5''	1.62	0.81
24:BA:2620:C:H4'	28:BE:156:MET:HB3	1.62	0.81
28:BE:77:ILE:HG12	28:BE:78:LEU:N	1.94	0.81
24:BA:450:G:C5'	29:BF:52:LYS:HD3	2.10	0.81
31:BH:11:VAL:CB	31:BH:50:VAL:HG21	2.11	0.81
35:BN:96:THR:CG2	35:BN:97:ARG:H	1.89	0.81
37:BP:69:PHE:HB3	37:BP:71:ASP:OD1	1.79	0.81
39:BR:11:LYS:HD3	39:BR:11:LYS:H	1.42	0.81
35:BN:77:ILE:HD13	40:BS:65:LYS:HE2	1.61	0.81
40:BS:7:ILE:HG13	40:BS:8:LYS:N	1.95	0.81
42:BU:18:LEU:HB2	42:BU:66:ARG:NH2	1.95	0.81
42:BU:27:ALA:HB1	42:BU:33:VAL:CG1	2.08	0.81
42:BU:73:SER:OG	42:BU:89:GLN:HB2	1.80	0.81
43:BV:3:ALA:HB3	43:BV:107:LEU:HB3	1.62	0.81
25:BB:102:G:N3	46:BY:73:GLN:NE2	2.27	0.81
26:BC:167:LYS:HG3	26:BC:168:THR:N	1.95	0.81
24:BA:1503:U:H2'	24:BA:1504:C:C6	2.15	0.81
1:AA:132:C:H5'	1:AA:262:A:C1'	2.10	0.81
1:AA:1433:A:H2'	1:AA:1434:A:O4'	1.81	0.81
4:AE:150:SER:CA	4:AE:153:ARG:HB2	2.09	0.81
11:AL:6:GLY:HA3	11:AL:80:GLY:O	1.79	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AP:77:ASN:O	15:AP:80:ARG:HG3	1.80	0.81
17:AR:6:GLU:HG2	17:AR:7:GLU:N	1.94	0.81
22:AW:19:SER:O	22:AW:23:ARG:HB3	1.81	0.81
24:BA:1252:G:H3'	24:BA:1253:A:O4'	1.81	0.81
24:BA:1790:C:H2'	24:BA:1791:A:C8	2.15	0.81
24:BA:2409:G:N2	24:BA:2410:G:H1'	1.95	0.81
24:BA:2654:A:H4'	24:BA:2656:U:C5	2.15	0.81
24:BA:270:A:C2	24:BA:370:G:H1'	2.14	0.81
24:BA:642:G:N2	24:BA:644:A:C2	2.49	0.81
27:BD:130:ALA:O	27:BD:131:LEU:HD13	1.81	0.81
27:BD:157:ARG:HB3	27:BD:160:GLY:O	1.80	0.81
24:BA:2597:G:H5'	27:BD:242:ARG:HG2	1.62	0.81
24:BA:2597:G:C1'	27:BD:242:ARG:HH21	1.93	0.81
28:BE:100:GLU:H	28:BE:172:VAL:HG21	1.44	0.81
28:BE:131:ALA:HB1	28:BE:134:ILE:HG13	1.60	0.81
30:BG:113:ARG:HD3	30:BG:139:LEU:CD2	2.11	0.81
30:BG:11:TYR:O	30:BG:15:VAL:HG13	1.81	0.81
33:BL:19:PRO:HB2	33:BL:22:PRO:HG2	1.63	0.81
36:BO:101:VAL:HG23	36:BO:112:LEU:HD22	1.61	0.81
36:BO:74:GLU:HA	36:BO:107:LYS:HD3	1.62	0.81
41:BT:88:ILE:O	42:BU:52:VAL:HA	1.79	0.81
41:BT:88:ILE:HG22	42:BU:55:ALA:CB	2.10	0.81
43:BV:76:VAL:HG22	43:BV:77:ASP:H	1.45	0.81
46:BY:127:LYS:HD3	46:BY:165:VAL:HG23	1.60	0.81
26:BC:29:VAL:HA	26:BC:32:LEU:HD12	1.61	0.81
32:BK:19:VAL:HG12	32:BK:20:ASP:N	1.95	0.81
1:AA:1104:G:H4'	4:AE:111:ARG:NE	1.95	0.81
1:AA:451:A:H1'	1:AA:452:A:C4	2.15	0.81
1:AA:558:G:H2'	1:AA:559:A:H2	1.45	0.81
4:AE:10:LEU:HD23	4:AE:11:LEU:CD2	2.11	0.81
6:AG:13:ARG:HE	6:AG:40:PRO:HB3	1.45	0.81
6:AG:166:LYS:HE2	6:AG:178:VAL:HG12	1.62	0.81
8:AI:80:ARG:HG2	8:AI:88:VAL:HG21	1.62	0.81
1:AA:1347:G:H8	11:AL:107:ARG:CB	1.93	0.81
15:AP:70:LEU:O	15:AP:74:VAL:HG23	1.81	0.81
16:AQ:24:CYS:HB2	16:AQ:39:LEU:C	2.01	0.81
1:AA:582:U:H5'	17:AR:64:ARG:NH2	1.96	0.81
51:B4:25:LEU:O	51:B4:25:LEU:HG	1.79	0.81
52:B5:24:GLU:CG	54:B7:37:SER:HB2	2.10	0.81
24:BA:1061:U:C4'	24:BA:1070:A:H4'	2.09	0.81
24:BA:1319:G:O2'	24:BA:1320:C:H5'	1.80	0.81
24:BA:1559:G:N1	24:BA:1560:G:C4'	2.39	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2393:A:P	54:B7:32:LEU:HD11	2.21	0.81
3:AD:76:A:N7	24:BA:2432:A:N3	2.29	0.81
24:BA:2453:A:O2'	24:BA:2572:A:H1'	1.80	0.81
24:BA:2637:U:H5''	28:BE:81:ILE:CD1	2.09	0.81
24:BA:2740:A:H2'	24:BA:2741:A:C8	2.15	0.81
24:BA:464:U:H6	24:BA:464:U:O5'	1.63	0.81
24:BA:47:C:H6	24:BA:47:C:O5'	1.64	0.81
24:BA:620:G:H5'	24:BA:621:A:OP1	1.79	0.81
24:BA:764:A:N6	24:BA:1789:A:C2	2.47	0.81
24:BA:972:G:H5''	24:BA:973:A:O3'	1.80	0.81
25:BB:75:G:H2'	46:BY:85:HIS:HE1	1.43	0.81
27:BD:177:LEU:HD23	27:BD:181:GLU:O	1.81	0.81
28:BE:38:THR:OG1	28:BE:44:TYR:HB2	1.80	0.81
28:BE:52:LEU:HB2	28:BE:73:GLU:O	1.81	0.81
28:BE:91:VAL:HG11	28:BE:93:VAL:HG22	1.61	0.81
29:BF:125:LEU:C	29:BF:127:GLU:H	1.84	0.81
30:BG:181:ARG:N	30:BG:181:ARG:HD2	1.95	0.81
31:BH:41:MET:SD	31:BH:68:THR:OG1	2.39	0.81
34:BM:85:ILE:HB	34:BM:90:MET:CE	2.11	0.81
43:BV:64:MET:O	43:BV:66:GLU:N	2.13	0.81
37:BP:137:TYR:CZ	46:BY:124:ILE:HD11	2.16	0.81
32:BK:101:LEU:HG	32:BK:102:SER:H	1.44	0.81
24:BA:1416:G:C2	24:BA:1583:A:N6	2.49	0.81
1:AA:1068:G:N7	1:AA:1094:G:C8	2.49	0.81
1:AA:477:G:H2'	1:AA:478:A:C8	2.16	0.81
1:AA:859:A:O2'	1:AA:860:A:H5'	1.81	0.81
3:AB:52:G:H2'	3:AB:53:G:C8	2.16	0.81
3:AD:34:G:O5'	3:AD:35:A:H5'	1.80	0.81
4:AE:97:TRP:HH2	4:AE:176:GLU:CD	1.84	0.81
4:AE:187:LEU:HD22	4:AE:188:ALA:N	1.95	0.81
5:AF:58:GLU:H	5:AF:65:ALA:HB3	1.46	0.81
9:AJ:115:ARG:CB	9:AJ:118:VAL:HG23	2.11	0.81
9:AJ:45:ASP:HA	9:AJ:48:LYS:HZ3	1.45	0.81
1:AA:1118:C:OP1	11:AL:104:ARG:HG3	1.81	0.81
13:AN:84:VAL:CG2	13:AN:110:ASP:HA	2.11	0.81
14:AO:9:GLN:HA	14:AO:12:ARG:HH12	1.46	0.81
19:AT:12:SER:N	19:AT:20:THR:OG1	2.14	0.81
21:AV:41:VAL:HB	21:AV:42:PRO:CD	2.07	0.81
24:BA:1222:C:C4	24:BA:1223:C:H5	1.99	0.81
24:BA:1312:U:C3'	24:BA:1313:U:C6	2.63	0.81
24:BA:1387:C:H2'	24:BA:1388:G:C8	2.16	0.81
24:BA:1431:U:H2'	24:BA:1432:C:O4'	1.80	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2059:A:N1	24:BA:2503:A:C5	2.48	0.81
24:BA:2590:A:H2'	24:BA:2591:C:C6	2.15	0.81
24:BA:2687:U:H2'	24:BA:2687:U:O2	1.81	0.81
24:BA:2805:G:H3'	24:BA:2807:G:C5'	2.10	0.81
27:BD:181:GLU:HG3	27:BD:270:ILE:CB	2.11	0.81
28:BE:41:LYS:C	28:BE:43:GLY:H	1.81	0.81
30:BG:55:LYS:HE2	30:BG:151:ALA:HB1	1.61	0.81
30:BG:73:ALA:N	30:BG:88:ILE:HD11	1.96	0.81
34:BM:70:LYS:HZ2	34:BM:86:PRO:HB3	1.44	0.81
36:BO:107:LYS:HZ3	36:BO:110:TYR:HB3	1.46	0.81
37:BP:63:LYS:HD3	37:BP:64:ILE:N	1.95	0.81
41:BT:31:SER:O	41:BT:32:PHE:C	2.19	0.81
43:BV:90:ARG:HH21	43:BV:90:ARG:H	1.27	0.81
45:BX:8:LYS:HA	45:BX:28:LYS:HD2	1.60	0.81
45:BX:49:VAL:CG2	45:BX:51:VAL:HB	2.10	0.81
26:BC:68:LEU:HD23	26:BC:69:GLY:N	1.95	0.81
26:BC:89:ALA:HB1	26:BC:154:ARG:CA	2.10	0.81
24:BA:1508:A:H5''	24:BA:1510:A:C5	2.16	0.81
3:AB:4:C:H2'	3:AB:5:G:H8	1.44	0.81
2:A1:28:G:O2'	2:A1:29:G:H5'	1.81	0.81
1:AA:1256:A:N1	1:AA:1278:U:O2'	2.14	0.81
1:AA:1507:A:H2'	1:AA:1508:G:O4'	1.81	0.81
1:AA:399:G:H2'	1:AA:400:C:C6	2.15	0.81
1:AA:722:A:H2'	1:AA:724:G:H8	1.45	0.81
1:AA:91:C:H2'	1:AA:92:G:C8	2.13	0.81
1:AA:994:A:C2	16:AQ:5:ALA:HA	2.16	0.81
4:AE:234:PRO:HA	4:AE:238:LEU:HD13	1.61	0.81
6:AG:61:LYS:HG3	6:AG:207:TYR:HE1	1.46	0.81
6:AG:88:VAL:HG22	7:AH:97:GLY:N	1.96	0.81
8:AI:65:VAL:HG23	8:AI:66:GLU:N	1.96	0.81
9:AJ:137:LYS:HA	9:AJ:140:ASP:OD2	1.81	0.81
10:AK:109:ILE:HG12	10:AK:137:VAL:O	1.81	0.81
12:AM:8:LEU:HD13	12:AM:16:LEU:HD13	1.61	0.81
17:AR:60:VAL:HA	17:AR:63:ARG:HD3	1.62	0.81
20:AU:49:LYS:H	20:AU:49:LYS:HE3	1.43	0.81
20:AU:70:ILE:O	20:AU:74:ARG:HD2	1.81	0.81
24:BA:1238:G:O2'	24:BA:1239:G:H5'	1.80	0.81
24:BA:24:G:H2'	24:BA:25:U:H6	1.42	0.81
24:BA:2786:U:O2'	24:BA:2787:C:H5'	1.81	0.81
25:BB:24:G:H2'	25:BB:56:G:O6	1.81	0.81
28:BE:4:ILE:HG13	28:BE:27:LEU:HD13	1.62	0.81
28:BE:81:ILE:HG22	28:BE:82:ARG:N	1.96	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:43:LYS:HA	29:BF:97:TYR:O	1.81	0.81
31:BH:103:LEU:HG	31:BH:105:LEU:HD11	1.62	0.81
35:BN:18:LYS:HE2	35:BN:44:LYS:CD	2.12	0.81
36:BO:72:PRO:O	36:BO:111:ARG:HB3	1.80	0.81
24:BA:564:C:H1'	41:BT:37:GLU:CD	2.01	0.81
41:BT:69:CYS:SG	41:BT:70:ARG:HG3	2.20	0.81
42:BU:5:VAL:HG22	42:BU:39:LEU:HA	1.61	0.81
42:BU:81:TYR:O	42:BU:82:ARG:HB2	1.81	0.81
47:BZ:19:LYS:O	47:BZ:20:ARG:HD2	1.79	0.81
24:BA:1580:A:H2'	24:BA:1581:G:N9	1.95	0.81
1:AA:1104:G:C4'	4:AE:111:ARG:HE	1.93	0.80
1:AA:263:A:H2'	1:AA:264:U:C5'	2.07	0.80
1:AA:551:U:H2'	1:AA:552:U:C5	2.16	0.80
1:AA:952:U:O2'	1:AA:965:A:N6	2.14	0.80
4:AE:157:ARG:C	4:AE:158:LEU:HD23	2.02	0.80
4:AE:84:GLU:CG	4:AE:234:PRO:HD2	2.10	0.80
5:AF:20:SER:HB2	5:AF:40:ARG:NH2	1.95	0.80
6:AG:200:GLU:O	6:AG:204:ILE:HD12	1.80	0.80
7:AH:136:MET:O	7:AH:139:LEU:HB2	1.79	0.80
7:AH:78:HIS:CD2	7:AH:78:HIS:H	1.99	0.80
9:AJ:28:ASN:O	9:AJ:31:MET:HB3	1.80	0.80
10:AK:80:ILE:CD1	10:AK:80:ILE:H	1.94	0.80
15:AP:3:ARG:NH2	30:BG:113:ARG:CZ	2.44	0.80
15:AP:51:ALA:O	15:AP:55:ARG:HG3	1.81	0.80
19:AT:10:VAL:HG21	19:AT:55:ASP:HB2	1.61	0.80
48:B1:52:ILE:HA	48:B1:55:LEU:CD2	2.11	0.80
49:B2:22:ALA:O	49:B2:26:LEU:HD22	1.81	0.80
49:B2:31:LEU:HD12	49:B2:32:GLN:NE2	1.95	0.80
24:BA:1809:A:N6	50:B3:3:GLU:HG3	1.95	0.80
52:B5:19:ARG:HD3	52:B5:19:ARG:H	1.46	0.80
24:BA:125:G:H21	53:B6:13:ALA:HB3	1.45	0.80
24:BA:247:G:N2	54:B7:8:LYS:HD2	1.95	0.80
24:BA:1188:U:O2	24:BA:1188:U:H2'	1.80	0.80
24:BA:1299:G:H21	24:BA:1640:C:H6	1.27	0.80
24:BA:1708:C:H2'	24:BA:1709:U:H5''	1.61	0.80
24:BA:2269:A:C2	24:BA:2270:G:H1'	2.16	0.80
24:BA:245:G:N2	24:BA:254:G:H1'	1.96	0.80
24:BA:2468:G:H3'	24:BA:2476:A:N1	1.96	0.80
24:BA:2687:U:C2	24:BA:2688:U:H6	2.00	0.80
24:BA:2780:G:O2'	24:BA:2781:A:H5''	1.81	0.80
24:BA:386:G:N3	24:BA:386:G:H2'	1.95	0.80
24:BA:477:A:N6	24:BA:502:A:N6	2.24	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:663:G:H4'	36:BO:18:ARG:NH1	1.96	0.80
24:BA:825:C:H1'	24:BA:2428:G:N2	1.96	0.80
24:BA:902:C:H2'	24:BA:903:C:C6	2.16	0.80
24:BA:729:G:P	27:BD:13:ARG:HH22	2.03	0.80
28:BE:176:ILE:HD12	28:BE:179:GLU:O	1.80	0.80
33:BL:12:LEU:HD23	33:BL:22:PRO:HB2	1.63	0.80
35:BN:25:LEU:CB	35:BN:38:VAL:O	2.28	0.80
37:BP:74:TYR:HD2	37:BP:74:TYR:N	1.78	0.80
39:BR:95:HIS:HA	39:BR:99:LYS:HD2	1.63	0.80
46:BY:152:ALA:CA	46:BY:155:LEU:HD13	2.11	0.80
26:BC:59:ARG:HG3	26:BC:60:GLY:N	1.95	0.80
33:BL:14:ALA:HB2	33:BL:53:VAL:HB	1.63	0.80
1:AA:1035:A:H2'	1:AA:1036:G:H5'	1.63	0.80
4:AE:60:ASP:HB3	4:AE:64:ARG:HH12	1.47	0.80
5:AF:48:TYR:HA	5:AF:52:LEU:CD2	2.11	0.80
11:AL:97:LYS:HB3	11:AL:98:PRO:HD3	1.62	0.80
19:AT:11:VAL:HG23	19:AT:21:VAL:HA	1.63	0.80
22:AW:62:LEU:HA	22:AW:65:LYS:CG	2.10	0.80
49:B2:3:ARG:HH12	49:B2:59:VAL:CB	1.91	0.80
54:B7:13:ARG:HD2	54:B7:24:ALA:HB1	1.63	0.80
24:BA:1555:G:OP2	24:BA:1555:G:H3'	1.80	0.80
24:BA:1964:G:C2	24:BA:1967:C:C5	2.70	0.80
24:BA:2021:C:H2'	24:BA:2022:U:OP1	1.80	0.80
24:BA:2453:A:H61	24:BA:2500:U:H3	1.29	0.80
24:BA:2447:G:H3'	24:BA:2499:C:P	2.21	0.80
24:BA:2877:G:H3'	24:BA:2878:U:C6	2.17	0.80
24:BA:531:C:N4	41:BT:38:THR:HA	1.95	0.80
24:BA:67:U:H2'	24:BA:68:G:C8	2.16	0.80
24:BA:820:A:C2'	24:BA:821:A:H5'	2.08	0.80
28:BE:197:ILE:N	28:BE:197:ILE:HD12	1.95	0.80
29:BF:171:PRO:HB2	29:BF:172:TRP:HE3	1.46	0.80
29:BF:153:SER:HA	29:BF:172:TRP:O	1.81	0.80
30:BG:131:TYR:CZ	30:BG:157:ILE:O	2.34	0.80
31:BH:167:GLU:O	31:BH:169:VAL:HG13	1.81	0.80
34:BM:91:LEU:HD23	34:BM:98:VAL:HG21	1.61	0.80
36:BO:49:ARG:O	36:BO:52:GLU:HG2	1.82	0.80
37:BP:110:THR:O	37:BP:111:GLU:HB2	1.81	0.80
40:BS:7:ILE:HG13	40:BS:8:LYS:H	1.46	0.80
44:BW:12:VAL:HG23	44:BW:28:PHE:HA	1.61	0.80
44:BW:63:LYS:H	44:BW:72:LYS:HG2	1.46	0.80
45:BX:98:VAL:O	45:BX:100:ALA:O	1.98	0.80
46:BY:79:ARG:C	46:BY:80:ARG:HD2	2.02	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:76:G:H5'	46:BY:85:HIS:ND1	1.95	0.80
26:BC:64:LEU:HB3	26:BC:188:ASN:OD1	1.80	0.80
1:AA:1239:A:H4'	1:AA:1240:U:C5'	2.11	0.80
1:AA:477:G:H2'	1:AA:478:A:H8	1.45	0.80
5:AF:8:ILE:HG21	16:AQ:50:LYS:O	1.81	0.80
11:AL:101:PHE:C	11:AL:102:LEU:HD23	2.01	0.80
11:AL:52:ALA:O	11:AL:95:LYS:HD2	1.80	0.80
14:AO:24:VAL:HG22	14:AO:98:TYR:CZ	2.17	0.80
17:AR:36:ILE:HG13	17:AR:59:MET:HE1	1.62	0.80
18:AS:14:ASN:HA	18:AS:42:ARG:CZ	2.10	0.80
13:AN:84:VAL:HG21	20:AU:88:LYS:CD	2.11	0.80
1:AA:333:G:H4'	22:AW:16:HIS:CD2	2.16	0.80
24:BA:1022:G:N2	24:BA:1023:U:O4	2.14	0.80
24:BA:1142(A):A:H3'	24:BA:1143:A:C5'	2.11	0.80
24:BA:1155:A:H2'	24:BA:1156:A:C5'	2.11	0.80
24:BA:120:U:O2'	24:BA:121:G:H5''	1.81	0.80
24:BA:1355:G:N2	24:BA:1377:G:H1'	1.95	0.80
24:BA:1617:C:H2'	24:BA:1617:C:O2	1.79	0.80
24:BA:209:C:C2'	24:BA:210:C:H5'	2.10	0.80
24:BA:2333:A:H1'	24:BA:2335:A:C4	2.16	0.80
24:BA:2394:C:N4	24:BA:2422:A:H61	1.79	0.80
24:BA:2568:C:H2'	24:BA:2569:G:H5'	1.63	0.80
24:BA:2627:G:C2'	24:BA:2628:C:H5'	2.10	0.80
24:BA:2839:G:H4'	38:BQ:49:ASP:OD1	1.81	0.80
24:BA:604:G:C6	24:BA:605:C:N4	2.50	0.80
24:BA:900:A:C8	24:BA:901:A:C8	2.69	0.80
27:BD:133:LEU:O	27:BD:135:PHE:N	2.14	0.80
28:BE:33:VAL:HG21	28:BE:77:ILE:CD1	2.10	0.80
29:BF:157:VAL:HG12	29:BF:176:LEU:HD23	1.63	0.80
29:BF:201:VAL:HG12	29:BF:205:ARG:NE	1.96	0.80
31:BH:98:LEU:CG	31:BH:123:PHE:HB2	2.11	0.80
33:BL:41:PHE:CZ	33:BL:57:ILE:HD13	2.15	0.80
35:BN:97:ARG:CZ	35:BN:98:VAL:N	2.44	0.80
36:BO:93:GLY:HA2	36:BO:112:LEU:HD11	1.61	0.80
37:BP:26:TYR:HD1	37:BP:27:VAL:N	1.78	0.80
26:BC:8:ARG:HH11	26:BC:11:LEU:HD23	1.46	0.80
48:B1:5:LEU:O	48:B1:8:ALA:HB3	1.82	0.80
1:AA:1145:C:H1'	1:AA:1146:A:N7	1.95	0.80
1:AA:270:A:H2'	1:AA:271:C:H6	1.45	0.80
1:AA:775:G:N3	1:AA:776:G:N7	2.29	0.80
1:AA:858:G:H1	1:AA:869:G:H3'	1.44	0.80
3:AC:21:A:N6	3:AC:46:G:N2	2.30	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:101:MET:HA	4:AE:108:ILE:HG13	1.64	0.80
4:AE:47:THR:OG1	4:AE:202:PRO:HG2	1.82	0.80
4:AE:224:GLN:HG2	4:AE:229:VAL:HG21	1.61	0.80
10:AK:14:ARG:HG2	10:AK:18:ARG:HE	1.46	0.80
1:AA:449:C:O2	18:AS:42:ARG:HG2	1.81	0.80
22:AW:51:GLU:HA	22:AW:54:LYS:HD2	1.61	0.80
24:BA:2286:A:H1'	52:B5:37:ARG:NH2	1.96	0.80
24:BA:1047:G:H2'	24:BA:1110:G:N1	1.97	0.80
24:BA:1387:C:H2'	24:BA:1388:G:H8	1.46	0.80
24:BA:163:U:O4	24:BA:171:G:H1'	1.81	0.80
24:BA:1800:C:H3'	24:BA:1800:C:H6	1.45	0.80
24:BA:2226:C:H2'	24:BA:2227:A:O4'	1.80	0.80
24:BA:2557:G:H2'	24:BA:2558:C:H6	1.43	0.80
24:BA:371:A:O2'	24:BA:372:G:OP1	1.99	0.80
24:BA:535:C:H5'	41:BT:49:HIS:CB	2.10	0.80
27:BD:80:ALA:HB2	27:BD:96:HIS:HD1	1.45	0.80
30:BG:118:ARG:HG3	30:BG:119:GLY:H	1.43	0.80
30:BG:171:ALA:HA	30:BG:174:GLU:OE1	1.81	0.80
30:BG:53:LEU:HB3	30:BG:69:ALA:O	1.80	0.80
36:BO:38:GLN:C	36:BO:40:SER:N	2.33	0.80
36:BO:81:GLN:HB3	36:BO:86:LYS:HG3	1.64	0.80
38:BQ:36:THR:O	38:BQ:111:LEU:HB3	1.80	0.80
40:BS:78:LEU:HD21	40:BS:84:GLN:OE1	1.81	0.80
42:BU:57:VAL:HG12	42:BU:58:VAL:N	1.96	0.80
42:BU:20:LEU:HD13	42:BU:68:LYS:NZ	1.96	0.80
45:BX:12:THR:HG23	45:BX:73:ARG:HG3	1.63	0.80
26:BC:30:LYS:HG2	26:BC:178:ALA:O	1.81	0.80
26:BC:46:LYS:HG3	26:BC:211:SER:OG	1.81	0.80
24:BA:1114:G:C2	24:BA:1115:G:H1'	2.15	0.80
24:BA:1418:G:OP1	24:BA:1588:C:H4'	1.81	0.80
1:AA:1003:G:C5	1:AA:1004:A:H1'	2.15	0.80
1:AA:1126:U:H5'	1:AA:1281:U:O4'	1.81	0.80
1:AA:389:A:H2'	1:AA:390:C:C5'	2.10	0.80
3:AC:19:G:H21	3:AC:57:G:H1'	1.46	0.80
5:AF:24:ALA:HB1	5:AF:28:GLN:OE1	1.80	0.80
1:AA:1189:C:H5''	5:AF:5:ILE:HG12	1.63	0.80
8:AI:6:VAL:HG22	8:AI:8:ILE:CD1	2.11	0.80
8:AI:75:LEU:HD22	8:AI:79:LEU:CD2	2.11	0.80
1:AA:1240:U:H2'	9:AJ:32:ARG:HH21	1.46	0.80
10:AK:68:ARG:HD3	10:AK:69:ARG:N	1.96	0.80
15:AP:11:ARG:O	15:AP:45:VAL:HB	1.80	0.80
12:AM:49:VAL:HG13	16:AQ:41:ARG:CD	2.11	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:B2:50:VAL:HG13	49:B2:53:LEU:CD1	2.11	0.80
24:BA:389:G:OP2	50:B3:24:THR:HG23	1.82	0.80
55:B8:10:ILE:O	55:B8:12:ASP:N	2.13	0.80
24:BA:1212:G:HO2'	24:BA:1213:A:H8	1.27	0.80
24:BA:1299:G:H22	24:BA:1640:C:H5'	1.46	0.80
24:BA:152:G:H2'	24:BA:153:C:O4'	1.80	0.80
24:BA:1602:U:C6	24:BA:1602:U:H3'	2.17	0.80
24:BA:1624:G:H2'	24:BA:1625:C:H5	1.46	0.80
24:BA:1913:A:N9	24:BA:1918:A:N6	2.29	0.80
24:BA:1943:U:C2	24:BA:1945:G:H5''	2.17	0.80
24:BA:2262:U:H4'	24:BA:2328:A:C2	2.17	0.80
24:BA:728:G:C6	24:BA:762:U:H2'	2.17	0.80
28:BE:173:VAL:HG22	28:BE:183:LEU:O	1.80	0.80
28:BE:13:ARG:CG	28:BE:22:PRO:HD3	2.07	0.80
30:BG:131:TYR:CE1	30:BG:157:ILE:O	2.35	0.80
31:BH:118:PRO:HG3	31:BH:144:VAL:HG21	1.61	0.80
31:BH:99:VAL:CG2	31:BH:104:GLU:HG2	2.11	0.80
34:BM:25:ARG:HA	34:BM:28:THR:CG2	2.11	0.80
35:BN:47:ILE:CD1	35:BN:52:VAL:HG13	2.11	0.80
37:BP:36:ALA:O	37:BP:37:LEU:HG	1.81	0.80
39:BR:49:VAL:HG13	39:BR:76:LYS:CE	2.12	0.80
39:BR:62:LYS:HB3	39:BR:65:VAL:N	1.96	0.80
39:BR:67:ARG:HH21	39:BR:67:ARG:HG2	1.47	0.80
39:BR:7:TYR:O	39:BR:10:ARG:HB2	1.81	0.80
41:BT:57:PHE:CA	41:BT:60:LEU:HG	2.12	0.80
43:BV:36:LEU:HD23	43:BV:51:LEU:CD2	2.11	0.80
45:BX:32:PRO:HB2	45:BX:34:LYS:HG3	1.64	0.80
46:BY:152:ALA:HB3	46:BY:168:GLU:CA	2.10	0.80
26:BC:64:LEU:HB3	26:BC:188:ASN:ND2	1.97	0.80
1:AA:232:G:H2'	1:AA:233:C:C5	2.15	0.80
1:AA:450:G:O6	1:AA:481:G:H2'	1.81	0.80
1:AA:474:G:C5'	18:AS:81:ARG:HG3	2.12	0.80
4:AE:16:HIS:C	4:AE:204:ASN:HB2	2.02	0.80
4:AE:80:ILE:HD12	4:AE:208:ILE:CG1	2.11	0.80
13:AN:57:THR:HG23	13:AN:60:ALA:N	1.95	0.80
15:AP:91:ARG:HB3	15:AP:98:VAL:HG22	1.62	0.80
18:AS:21:VAL:HG21	18:AS:59:TRP:HE1	1.43	0.80
19:AT:65:ILE:HG23	19:AT:69:LYS:HD2	1.64	0.80
22:AW:23:ARG:HA	22:AW:26:ASN:OD1	1.81	0.80
24:BA:1592:C:H2'	24:BA:1593:G:H8	1.47	0.80
24:BA:1950:G:N7	24:BA:1951:U:C5	2.50	0.80
24:BA:287:C:C2'	24:BA:288:C:C5	2.64	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:508:G:O2'	24:BA:509:C:H5''	1.81	0.80
24:BA:697:C:H2'	24:BA:698:C:H5''	1.62	0.80
28:BE:5:LEU:HD11	28:BE:196:VAL:HG12	1.63	0.80
30:BG:55:LYS:O	30:BG:59:GLU:HG2	1.81	0.80
31:BH:117:PRO:HA	31:BH:121:ILE:HD13	1.64	0.80
35:BN:39:ILE:C	35:BN:59:LYS:NZ	2.35	0.80
36:BO:46:LYS:HB3	36:BO:49:ARG:NH2	1.96	0.80
37:BP:16:ARG:NE	37:BP:73:PRO:HD3	1.96	0.80
39:BR:14:VAL:HG12	39:BR:15:ARG:N	1.96	0.80
40:BS:52:ILE:N	40:BS:66:VAL:HG12	1.97	0.80
41:BT:38:THR:O	41:BT:41:ALA:HB3	1.81	0.80
45:BX:35:TYR:O	45:BX:64:GLU:HB3	1.82	0.80
1:AA:270:A:O2'	1:AA:271:C:H5'	1.82	0.80
1:AA:495:A:H1'	1:AA:496:A:N7	1.97	0.80
1:AA:518:C:O2'	1:AA:519:C:OP2	2.00	0.80
1:AA:552:U:O2'	1:AA:553:A:H5'	1.82	0.80
4:AE:97:TRP:HZ2	4:AE:102:LEU:CD1	1.94	0.80
4:AE:59:GLU:CB	4:AE:221:LEU:HD21	2.09	0.80
11:AL:42:ARG:HB3	11:AL:74:ILE:CD1	2.11	0.80
17:AR:36:ILE:HD12	17:AR:63:ARG:HD3	1.63	0.80
18:AS:6:LEU:HD23	18:AS:17:TYR:CD2	2.17	0.80
49:B2:28:LEU:HD23	49:B2:28:LEU:N	1.96	0.80
50:B3:65:ASP:CA	50:B3:68:ARG:NH2	2.42	0.80
54:B7:22:VAL:CG1	54:B7:23:VAL:N	2.45	0.80
24:BA:1123:C:H2'	24:BA:1124:C:H6	1.45	0.80
24:BA:1142(A):A:N1	24:BA:1143:A:C8	2.50	0.80
24:BA:1496:A:C2	24:BA:1498:C:N4	2.50	0.80
24:BA:1670:C:H3'	24:BA:1671:U:C6	2.15	0.80
24:BA:1762:A:C8	24:BA:1762:A:C3'	2.60	0.80
24:BA:185:U:N3	24:BA:212:G:N2	2.30	0.80
24:BA:2756:U:N3	24:BA:2758:A:N6	2.29	0.80
24:BA:562:U:O2	24:BA:572:A:H1'	1.81	0.80
24:BA:90:U:H4'	24:BA:91:A:O5'	1.80	0.80
25:BB:30:C:H2'	25:BB:31:C:H5'	1.62	0.80
28:BE:1:MET:C	28:BE:2:LYS:HG3	2.02	0.80
29:BF:74:ARG:HH11	29:BF:75:HIS:HA	1.46	0.80
34:BM:89:LYS:CE	34:BM:89:LYS:N	2.43	0.80
35:BN:69:VAL:N	35:BN:104:ARG:NH2	2.29	0.80
36:BO:16:ARG:HD3	36:BO:19:VAL:HG22	1.62	0.80
38:BQ:73:VAL:HG23	38:BQ:74:LYS:H	1.47	0.80
41:BT:13:LYS:HA	41:BT:16:LYS:HZ2	1.47	0.80
41:BT:98:LEU:HB3	41:BT:105:VAL:CG1	2.11	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:102:LEU:HD13	46:BY:137:ILE:O	1.80	0.80
3:AD:62:C:H4'	26:BC:52:ARG:HD3	1.61	0.80
26:BC:56:GLN:O	26:BC:58:VAL:HG22	1.80	0.80
24:BA:1582:C:H3'	24:BA:1583:A:C5'	2.12	0.80
1:AA:1196:U:H5'	1:AA:1197:G:H5'	1.64	0.80
1:AA:1206:G:H2'	1:AA:1207:G:O4'	1.82	0.80
1:AA:1245:A:H2'	1:AA:1246:C:H6	1.47	0.80
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.44	0.80
4:AE:97:TRP:CH2	4:AE:176:GLU:HG3	2.15	0.80
4:AE:208:ILE:HA	4:AE:211:ILE:HB	1.63	0.80
7:AH:12:LEU:HG	7:AH:129:ILE:CD1	2.12	0.80
9:AJ:72:ARG:HH22	9:AJ:138:LYS:HZ3	1.28	0.80
11:AL:27:THR:HB	11:AL:62:TYR:CD1	2.17	0.80
11:AL:29:ASN:OD1	11:AL:64:THR:HA	1.82	0.80
12:AM:6:ILE:CG2	12:AM:98:ILE:HG13	2.11	0.80
17:AR:75:PRO:C	17:AR:78:TYR:HB3	2.02	0.80
20:AU:55:ARG:HB3	20:AU:55:ARG:NH1	1.96	0.80
49:B2:3:ARG:HH22	49:B2:59:VAL:CG1	1.94	0.80
54:B7:20:GLY:O	54:B7:21:LYS:HG3	1.81	0.80
55:B8:10:ILE:N	55:B8:10:ILE:HD12	1.97	0.80
24:BA:1475:G:H21	24:BA:1476:C:C5'	1.93	0.80
24:BA:1670:C:H2'	24:BA:1671:U:O4'	1.82	0.80
24:BA:2022:U:H5'	24:BA:2023:G:OP2	1.81	0.80
24:BA:2597:G:C5'	27:BD:242:ARG:HE	1.94	0.80
3:AC:75:C:P	24:BA:2602:A:H5'	2.22	0.80
24:BA:2771:C:H2'	24:BA:2772:C:C6	2.17	0.80
24:BA:339:U:H2'	24:BA:340:A:C8	2.16	0.80
25:BB:82:G:H2'	25:BB:83:G:H8	1.46	0.80
30:BG:29:TRP:O	30:BG:31:VAL:N	2.14	0.80
30:BG:44:GLY:O	30:BG:72:ARG:HB3	1.80	0.80
30:BG:60:LEU:O	30:BG:63:ILE:HG22	1.81	0.80
35:BN:10:VAL:C	35:BN:17:ARG:HG3	2.01	0.80
40:BS:28:VAL:HB	40:BS:52:ILE:HD12	1.64	0.80
43:BV:13:SER:HG	43:BV:14:PRO:HD2	1.47	0.80
43:BV:40:ASN:OD1	43:BV:41:LYS:HG3	1.81	0.80
46:BY:24:LEU:HD13	46:BY:83:PRO:HD2	1.63	0.80
26:BC:43:VAL:HG22	26:BC:214:VAL:HG22	1.62	0.80
24:BA:2127:G:H5'	26:BC:36:LYS:HG2	1.64	0.80
24:BA:1113:U:O5'	24:BA:1113:U:H6	1.65	0.80
1:AA:1135:U:H2'	1:AA:1137:C:C6	2.16	0.80
1:AA:1277:C:H4'	1:AA:1282:C:C1'	2.11	0.80
1:AA:11:G:H2'	1:AA:12:U:O4'	1.81	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AB:63:G:C2'	24:BA:2482:G:H4'	2.11	0.80
4:AE:90:MET:SD	4:AE:91:PRO:HD2	2.21	0.80
5:AF:15:THR:HG21	5:AF:181:ASN:CA	2.12	0.80
6:AG:55:ALA:O	6:AG:59:ARG:CG	2.28	0.80
6:AG:94:LEU:HA	6:AG:97:LEU:HD12	1.64	0.80
7:AH:109:ILE:HD13	7:AH:135:THR:CB	2.11	0.80
8:AI:30:LEU:HA	8:AI:75:LEU:CD1	2.12	0.80
11:AL:47:LEU:HD11	11:AL:56:LEU:HG	1.62	0.80
13:AN:87:THR:HA	13:AN:91:ARG:NH1	1.96	0.80
14:AO:77:LEU:HD11	14:AO:107:ALA:HB2	1.61	0.80
17:AR:75:PRO:CA	17:AR:78:TYR:HB3	2.11	0.80
51:B4:34:PRO:HD3	51:B4:40:LYS:CD	2.12	0.80
24:BA:1265:A:H8	24:BA:1267:U:O4	1.65	0.80
24:BA:1299:G:O6	24:BA:1639:U:H5''	1.80	0.80
24:BA:2051:A:H4'	28:BE:141:ILE:CD1	2.11	0.80
24:BA:2055:C:H4'	24:BA:2056:G:H5''	1.62	0.80
24:BA:2507:C:O3'	24:BA:2573:C:N4	2.15	0.80
24:BA:1051:G:H4'	24:BA:2752:C:H1'	1.63	0.80
24:BA:374:A:H3'	24:BA:375:C:H6	1.46	0.80
24:BA:820:A:H2'	24:BA:821:A:C5'	2.11	0.80
24:BA:871:U:H5''	37:BP:9:TYR:CZ	2.16	0.80
24:BA:917:A:H3'	24:BA:918:A:H5''	1.62	0.80
24:BA:973:A:HO2'	24:BA:974:G:C5'	1.94	0.80
27:BD:155:LEU:HD23	27:BD:155:LEU:O	1.81	0.80
28:BE:119:ARG:NE	28:BE:155:LYS:HB3	1.97	0.80
28:BE:47:VAL:HG22	28:BE:79:ARG:HB2	1.64	0.80
31:BH:7:LEU:HD13	31:BH:65:HIS:NE2	1.97	0.80
31:BH:98:LEU:HG	31:BH:123:PHE:CB	2.11	0.80
33:BL:129:GLY:HA2	33:BL:132:ARG:CZ	2.12	0.80
34:BM:91:LEU:O	34:BM:95:PRO:HD3	1.82	0.80
38:BQ:99:LYS:HA	38:BQ:112:ALA:HB2	1.63	0.80
24:BA:1453:A:N6	38:BQ:63:ARG:HH21	1.77	0.80
40:BS:32:TYR:N	40:BS:32:TYR:CD1	2.48	0.80
35:BN:122:LEU:HG	40:BS:71:GLY:O	1.80	0.80
41:BT:108:GLU:HB2	41:BT:111:GLU:CD	2.01	0.80
44:BW:40:LYS:HA	44:BW:51:VAL:HG11	1.63	0.80
46:BY:4:ARG:O	46:BY:5:LEU:HD23	1.81	0.80
36:BO:149:GLU:CD	36:BO:150:ALA:H	1.84	0.80
1:AA:112:G:O2'	1:AA:113:G:H5'	1.81	0.80
1:AA:1224:G:H1	1:AA:1362(A):C:N4	1.80	0.80
1:AA:1394:A:O2'	1:AA:1395:C:OP1	2.00	0.80
1:AA:412:A:O2'	1:AA:413:G:H5''	1.82	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:655:A:H2'	1:AA:656:C:H6	1.46	0.80
1:AA:907:A:H2'	1:AA:908:A:C8	2.17	0.80
1:AA:913:A:O2'	1:AA:914:A:O4'	1.98	0.80
7:AH:60:TYR:O	7:AH:64:ARG:HG2	1.82	0.80
10:AK:14:ARG:HH11	10:AK:14:ARG:CB	1.94	0.80
15:AP:98:VAL:HG23	15:AP:110:ARG:HH21	1.47	0.80
20:AU:21:LYS:HD2	20:AU:22:VAL:H	1.47	0.80
8:AI:46:ARG:HH22	20:AU:37:VAL:CG2	1.94	0.80
52:B5:30:THR:HB	52:B5:31:PRO:CD	2.12	0.80
54:B7:61:LEU:O	54:B7:62:LEU:HB2	1.82	0.80
24:BA:973:A:H1'	24:BA:1188:U:O4	1.82	0.80
24:BA:1526:G:H21	24:BA:1545(A):A:H62	1.27	0.80
24:BA:1394:U:H5''	24:BA:1604:C:P	2.22	0.80
24:BA:280:C:C4	24:BA:283:A:N7	2.50	0.80
24:BA:718:A:H5''	24:BA:719:C:C5	2.17	0.80
24:BA:865:C:O2'	24:BA:866:A:N7	2.15	0.80
27:BD:258:LYS:HA	27:BD:261:LYS:CE	2.11	0.80
30:BG:110:ALA:HB1	30:BG:139:LEU:CG	2.12	0.80
30:BG:148:MET:CG	30:BG:151:ALA:HA	2.07	0.80
36:BO:113:LYS:HA	36:BO:129:ALA:CB	2.12	0.80
36:BO:128:HIS:ND1	36:BO:129:ALA:N	2.30	0.80
37:BP:34:LEU:HD12	37:BP:67:ARG:NH2	1.97	0.80
38:BQ:44:LEU:CD1	38:BQ:48:VAL:HG21	2.12	0.80
38:BQ:45:ARG:O	38:BQ:49:ASP:HB3	1.82	0.80
40:BS:95:ARG:HH21	40:BS:95:ARG:HB3	1.46	0.80
41:BT:8:VAL:HG23	41:BT:9:VAL:N	1.97	0.80
45:BX:45:VAL:HG12	45:BX:57:GLN:OE1	1.81	0.80
47:BZ:37:LEU:HD12	47:BZ:59:LEU:HB3	1.63	0.80
1:AA:232:G:H2'	1:AA:233:C:H6	1.45	0.80
1:AA:1005:A:H3'	1:AA:1006:C:C6	2.14	0.79
1:AA:1347:G:H4'	1:AA:1348:U:O5'	1.82	0.79
1:AA:37:U:O4	1:AA:38:G:C4	2.34	0.79
1:AA:55:A:O2'	1:AA:56:U:H5'	1.81	0.79
1:AA:819:A:C6	1:AA:1529:G:N7	2.51	0.79
4:AE:196:LEU:HD12	4:AE:197:VAL:N	1.97	0.79
7:AH:121:LYS:HZ2	7:AH:122:GLU:H	0.82	0.79
10:AK:86:ILE:HB	10:AK:133:LEU:O	1.82	0.79
13:AN:91:ARG:O	13:AN:95:ILE:HG13	1.82	0.79
15:AP:48:LEU:HD13	15:AP:53:VAL:HG22	1.64	0.79
17:AR:65:ARG:O	17:AR:68:ARG:HB3	1.80	0.79
18:AS:6:LEU:N	18:AS:6:LEU:HD13	1.96	0.79
49:B2:23:LEU:O	49:B2:28:LEU:HG	1.81	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:B4:55:ARG:O	51:B4:57:VAL:HG22	1.82	0.79
53:B6:42:LEU:O	53:B6:45:ALA:HB3	1.82	0.79
55:B8:7:VAL:HG21	55:B8:36:GLN:NE2	1.96	0.79
55:B8:7:VAL:HG22	55:B8:34:GLN:OE1	1.82	0.79
24:BA:1184:G:C2'	24:BA:1185:C:H5'	2.12	0.79
24:BA:1312:U:C2'	24:BA:1313:U:C6	2.65	0.79
24:BA:1472:A:H1'	24:BA:1473:G:N7	1.96	0.79
24:BA:1352:U:H1'	24:BA:1570:A:H2	1.46	0.79
24:BA:1609:A:C8	24:BA:1616:A:H1'	2.16	0.79
24:BA:2254:C:H2'	24:BA:2255:G:C5'	2.11	0.79
24:BA:2333:A:H2'	24:BA:2333:A:N3	1.94	0.79
24:BA:2349:G:C3'	24:BA:2350:C:H5''	2.12	0.79
24:BA:2467:C:O2'	37:BP:120:ILE:HG23	1.83	0.79
24:BA:2733:A:H2'	24:BA:2734:A:O5'	1.81	0.79
24:BA:531:C:C6	24:BA:532:A:N3	2.50	0.79
24:BA:763:G:C2'	24:BA:764:A:H5''	2.11	0.79
24:BA:76:C:C2'	24:BA:77:C:H5'	2.12	0.79
28:BE:137:HIS:HB2	28:BE:138:PRO:HD2	1.64	0.79
28:BE:169:ASN:ND2	28:BE:170:LEU:H	1.80	0.79
28:BE:174:ASP:O	28:BE:182:LEU:HG	1.82	0.79
28:BE:58:ARG:HB2	28:BE:58:ARG:HH21	1.47	0.79
29:BF:154:VAL:HG12	29:BF:191:ARG:HB3	1.64	0.79
30:BG:163:ALA:HB1	30:BG:169:ALA:CA	2.11	0.79
34:BM:99:LEU:HD21	34:BM:122:VAL:HG21	1.63	0.79
24:BA:662:G:H5''	36:BO:19:VAL:HG13	1.62	0.79
38:BQ:17:ARG:HG3	38:BQ:18:LEU:N	1.96	0.79
39:BR:74:ALA:HB2	39:BR:104:GLY:O	1.82	0.79
41:BT:15:LYS:HA	41:BT:18:LEU:CD2	2.09	0.79
42:BU:40:LEU:HD11	42:BU:55:ALA:HA	1.62	0.79
42:BU:64:HIS:ND1	42:BU:96:ILE:HG22	1.96	0.79
32:BK:125:GLU:CB	32:BK:143:SER:HB3	2.02	0.79
32:BK:75:LEU:HD13	32:BK:76:THR:H	1.47	0.79
26:BC:150:GLY:O	26:BC:154:ARG:HB2	1.80	0.79
26:BC:19:ILE:HD12	26:BC:223:ARG:CB	2.11	0.79
26:BC:39:GLU:OE2	26:BC:216:THR:HB	1.82	0.79
26:BC:148:ASN:HD21	26:BC:152:ILE:HG13	1.48	0.79
1:AA:225:C:H2'	1:AA:226:G:C5'	2.13	0.79
1:AA:82:U:H2'	1:AA:85:U:C5	2.13	0.79
1:AA:953:G:N7	15:AP:104:ARG:NH2	2.30	0.79
6:AG:170:VAL:HG23	6:AG:176:LEU:HD22	1.64	0.79
1:AA:932:C:C3'	9:AJ:3:ARG:HG3	2.10	0.79
11:AL:16:ARG:NE	11:AL:18:PHE:HZ	1.80	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AP:78:ILE:CA	15:AP:81:LEU:HD13	2.12	0.79
17:AR:42:HIS:CG	17:AR:43:LEU:N	2.48	0.79
19:AT:25:ARG:NH2	19:AT:40:LYS:HD3	1.92	0.79
23:AX:6:ARG:HB3	23:AX:15:ARG:HH21	1.46	0.79
24:BA:1527:G:H3'	24:BA:1527:G:C8	2.17	0.79
24:BA:2286:A:H62	52:B5:32:ASN:H	1.30	0.79
24:BA:343:C:H2'	24:BA:344:G:H5'	1.63	0.79
24:BA:360:G:H2'	24:BA:361:G:O4'	1.83	0.79
24:BA:850:C:O2'	24:BA:851:U:H5'	1.82	0.79
29:BF:12:LEU:O	29:BF:14:PRO:HD3	1.81	0.79
29:BF:122:LYS:NZ	29:BF:192:LEU:HB3	1.97	0.79
30:BG:59:GLU:OE2	30:BG:152:LEU:HD13	1.80	0.79
32:BK:2:LYS:HD2	32:BK:39:ALA:CB	2.11	0.79
34:BM:33:LEU:O	34:BM:35:ARG:N	2.13	0.79
42:BU:62:LEU:HD22	42:BU:99:ILE:N	1.96	0.79
45:BX:37:VAL:O	45:BX:39:VAL:HG23	1.82	0.79
47:BZ:33:ALA:HA	47:BZ:61:ALA:O	1.82	0.79
47:BZ:21:LEU:HG	47:BZ:39:ARG:O	1.81	0.79
24:BA:2135:A:H4'	24:BA:2136:C:H5	1.43	0.79
26:BC:64:LEU:HD12	26:BC:161:ILE:HG21	1.64	0.79
30:BG:91:ARG:HB2	30:BG:91:ARG:NH2	1.91	0.79
1:AA:1255:G:H21	1:AA:1276:G:N2	1.79	0.79
1:AA:1510:U:H2'	1:AA:1511:G:H8	1.46	0.79
1:AA:708:C:O2'	1:AA:709:G:H5'	1.83	0.79
1:AA:541:G:H4'	6:AG:42:GLN:HB2	1.63	0.79
11:AL:9:ARG:O	11:AL:104:ARG:HG2	1.81	0.79
16:AQ:39:LEU:HD13	16:AQ:44:LEU:HA	1.62	0.79
17:AR:6:GLU:CG	17:AR:7:GLU:H	1.94	0.79
52:B5:26:ASN:O	52:B5:27:LYS:CB	2.30	0.79
24:BA:1203:G:N1	24:BA:1241:A:H1'	1.97	0.79
24:BA:176:G:H2'	24:BA:177:G:H8	1.46	0.79
24:BA:1846:G:N2	24:BA:1895:C:C2	2.50	0.79
24:BA:1941:C:O2	24:BA:1941:C:H2'	1.83	0.79
24:BA:1958:C:O2'	24:BA:1959:G:H5'	1.81	0.79
24:BA:2233:U:H2'	24:BA:2234:G:H8	1.46	0.79
24:BA:2305:A:C8	24:BA:2306:C:H5''	2.17	0.79
24:BA:2393:A:H5''	36:BO:56:SER:CA	2.12	0.79
24:BA:2447:G:C3'	24:BA:2499:C:P	2.71	0.79
24:BA:2776:A:H4'	24:BA:2777:G:C5'	2.12	0.79
24:BA:2848:G:C8	40:BS:99:LEU:CD1	2.66	0.79
24:BA:336:C:H2'	24:BA:337:C:H5'	1.63	0.79
24:BA:616:A:H4'	24:BA:617:G:OP1	1.82	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:846:C:O2'	24:BA:847:U:OP2	1.98	0.79
24:BA:1788:C:C2	27:BD:222:ARG:NH2	2.51	0.79
24:BA:1803:A:C4'	27:BD:257:LEU:HD13	2.12	0.79
27:BD:34:VAL:HG23	27:BD:36:PRO:HD2	1.65	0.79
28:BE:199:ARG:HD2	28:BE:199:ARG:N	1.98	0.79
30:BG:138:GLN:HB2	30:BG:155:MET:HE1	1.63	0.79
31:BH:103:LEU:CG	31:BH:105:LEU:HD11	2.12	0.79
31:BH:40:GLU:HB2	31:BH:55:PRO:HG3	1.64	0.79
31:BH:6:ARG:HH11	31:BH:6:ARG:HA	1.46	0.79
37:BP:25:ASP:HB3	37:BP:102:VAL:N	1.97	0.79
40:BS:87:ASP:C	40:BS:88:ILE:HG13	2.03	0.79
41:BT:98:LEU:CD1	41:BT:105:VAL:HG21	2.12	0.79
45:BX:75:ILE:H	45:BX:100:ALA:HB1	1.47	0.79
47:BZ:50:ASN:O	47:BZ:62:LEU:HB3	1.82	0.79
32:BK:69:LYS:HG2	32:BK:70:LYS:H	1.44	0.79
3:AD:18:G:H2'	3:AD:19:G:O5'	1.81	0.79
1:AA:1244:C:H2'	1:AA:1245:A:H8	1.46	0.79
1:AA:1406:U:H2'	1:AA:1406:U:O2	1.80	0.79
1:AA:225:C:H2'	1:AA:226:G:H5'	1.65	0.79
1:AA:520:A:H62	1:AA:529:G:N2	1.79	0.79
1:AA:657:G:C2'	1:AA:658:G:H5'	2.13	0.79
4:AE:167:PRO:HG2	4:AE:168:THR:H	1.46	0.79
9:AJ:5:ARG:HB3	9:AJ:5:ARG:NH1	1.97	0.79
9:AJ:75:VAL:HG13	9:AJ:87:VAL:O	1.82	0.79
15:AP:16:ASP:HA	15:AP:19:LEU:CG	2.13	0.79
17:AR:31:LEU:HA	17:AR:34:LEU:HD23	1.65	0.79
22:AW:62:LEU:CA	22:AW:65:LYS:HG2	2.12	0.79
54:B7:30:ARG:NE	54:B7:44:LYS:HB2	1.96	0.79
55:B8:20:HIS:C	55:B8:22:ARG:H	1.81	0.79
24:BA:1259:G:H2'	24:BA:1260:G:C8	2.16	0.79
24:BA:1290:C:H2'	24:BA:1291:C:C6	2.18	0.79
24:BA:192:C:O2	24:BA:192:C:H2'	1.80	0.79
24:BA:1937:A:N6	24:BA:1939:U:C5	2.50	0.79
24:BA:1992:G:H1'	24:BA:1993:U:H5	1.46	0.79
24:BA:2063:C:C3'	24:BA:2064:C:H5''	2.10	0.79
24:BA:2581:G:C6	24:BA:2610:C:H2'	2.18	0.79
24:BA:2746:U:N3	24:BA:2756:U:O4	2.15	0.79
24:BA:292:C:H2'	24:BA:293:U:C2	2.16	0.79
24:BA:603:A:H2'	24:BA:604:G:C8	2.17	0.79
24:BA:609:A:C6	24:BA:609(A):G:O6	2.35	0.79
24:BA:935:C:H2'	24:BA:936:C:C6	2.17	0.79
25:BB:68:C:H3'	25:BB:69:G:H8	1.48	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:73:A:H2'	25:BB:74:U:H6	1.48	0.79
27:BD:77:ALA:HB1	27:BD:95:LEU:CD2	2.12	0.79
28:BE:104:VAL:CG1	28:BE:197:ILE:O	2.30	0.79
28:BE:104:VAL:HG22	28:BE:198:VAL:CG1	2.10	0.79
29:BF:36:VAL:HG11	29:BF:183:VAL:HB	1.65	0.79
31:BH:105:LEU:HD23	31:BH:105:LEU:N	1.96	0.79
31:BH:169:VAL:O	31:BH:171:LEU:HG	1.82	0.79
34:BM:76:SER:C	34:BM:78:TYR:H	1.85	0.79
35:BN:85:VAL:O	35:BN:93:PRO:CD	2.31	0.79
36:BO:7:ARG:CD	36:BO:8:PRO:HD3	2.12	0.79
42:BU:35:LEU:H	42:BU:61:VAL:HG13	1.45	0.79
47:BZ:25:ARG:CG	47:BZ:37:LEU:HA	2.13	0.79
14:AO:126:LYS:NZ	14:AO:128:ALA:H	1.80	0.79
1:AA:727:G:H3'	1:AA:727:G:C8	2.17	0.79
1:AA:1296:C:H1'	1:AA:1302:U:O4	1.82	0.79
1:AA:280:C:H5''	1:AA:281:G:OP2	1.81	0.79
1:AA:303:A:H2'	1:AA:304:U:O4'	1.83	0.79
1:AA:313:A:H2'	1:AA:314:C:C5	2.17	0.79
1:AA:692:U:H1'	1:AA:694:A:C8	2.17	0.79
6:AG:173:TRP:CD1	6:AG:189:PRO:HB3	2.18	0.79
7:AH:91:LEU:HD23	7:AH:91:LEU:C	2.03	0.79
12:AM:30:SER:CB	12:AM:80:LYS:HG3	2.12	0.79
14:AO:41:ARG:NH1	14:AO:41:ARG:HB3	1.97	0.79
18:AS:39:TYR:HB2	18:AS:49:LEU:CD1	2.08	0.79
20:AU:33:ASP:CG	20:AU:34:TYR:N	2.33	0.79
44:BW:5:TYR:HB3	48:B1:24:LYS:HD3	1.65	0.79
50:B3:5:ILE:CD1	50:B3:10:VAL:HG23	2.12	0.79
51:B4:51:TYR:HB3	51:B4:55:ARG:CA	2.12	0.79
53:B6:41:ARG:O	53:B6:42:LEU:HG	1.83	0.79
55:B8:10:ILE:HD11	55:B8:34:GLN:NE2	1.98	0.79
24:BA:1214:A:H2'	24:BA:1215:G:C8	2.17	0.79
24:BA:1263:U:O3'	51:B4:10:LYS:HD3	1.81	0.79
24:BA:2519:U:H5''	24:BA:2520:C:OP1	1.81	0.79
24:BA:2538:C:O2	24:BA:2539:C:C5	2.34	0.79
24:BA:2610:C:H4'	24:BA:2611:U:O5'	1.81	0.79
24:BA:2747:G:O2'	31:BH:67:LEU:HD13	1.82	0.79
24:BA:819:A:H2'	24:BA:820:A:C8	2.17	0.79
24:BA:930:U:O5'	24:BA:930:U:C6	2.35	0.79
24:BA:935:C:H2'	24:BA:936:C:H6	1.46	0.79
27:BD:232:PRO:CG	27:BD:247:ALA:HA	2.12	0.79
27:BD:90:ALA:HA	27:BD:91:ARG:NH1	1.97	0.79
28:BE:105:THR:OG1	28:BE:165:VAL:O	2.00	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:BE:196:VAL:CG1	28:BE:197:ILE:N	2.44	0.79
24:BA:618:G:OP1	29:BF:106:ARG:HD2	1.83	0.79
33:BL:130:SER:O	33:BL:133:SER:HB3	1.82	0.79
34:BM:100:GLU:O	34:BM:103:VAL:HG13	1.82	0.79
35:BN:117:LEU:HD23	35:BN:117:LEU:C	2.03	0.79
46:BY:153:SER:HB3	46:BY:168:GLU:HB2	1.65	0.79
46:BY:18:LEU:HB3	46:BY:23:LYS:O	1.83	0.79
3:AD:18:G:H21	3:AD:58:A:C5'	1.95	0.79
26:BC:97:GLU:CA	26:BC:100:ILE:HD12	2.09	0.79
1:AA:161:A:H2'	1:AA:162:A:O4'	1.83	0.79
2:A1:25:G:H2'	2:A1:26:G:O4'	1.81	0.79
2:A1:52:U:H4'	6:AG:50:ARG:CA	2.12	0.79
1:AA:1178:G:H2'	1:AA:1180:A:OP2	1.82	0.79
1:AA:1242:C:H5''	23:AX:10:ARG:NH1	1.95	0.79
1:AA:124:G:H2'	1:AA:125:U:C6	2.18	0.79
1:AA:858:G:N2	1:AA:869:G:H3'	1.98	0.79
4:AE:164:VAL:HG12	4:AE:186:ALA:HB2	1.64	0.79
5:AF:181:ASN:ND2	5:AF:206:GLU:HG2	1.96	0.79
7:AH:13:ILE:HD12	7:AH:13:ILE:N	1.96	0.79
10:AK:9:MET:HG2	10:AK:13:ILE:HD11	1.64	0.79
13:AN:18:ARG:HA	13:AN:80:VAL:HG23	1.63	0.79
1:AA:1226:C:N4	15:AP:104:ARG:HG3	1.98	0.79
10:AK:91:ARG:HG2	19:AT:34:LYS:CB	2.12	0.79
19:AT:80:GLY:O	19:AT:82:MET:HG2	1.81	0.79
49:B2:55:ARG:HA	49:B2:55:ARG:CZ	2.13	0.79
51:B4:37:LYS:O	51:B4:38:ALA:O	2.00	0.79
51:B4:39:MET:CE	51:B4:41:PRO:HD3	2.13	0.79
53:B6:41:ARG:HB2	53:B6:41:ARG:NH1	1.95	0.79
24:BA:1033:U:H5'	55:B8:16:VAL:HG21	1.64	0.79
24:BA:49:A:H1'	24:BA:118:A:N6	1.96	0.79
24:BA:1312:U:C2'	24:BA:1313:U:H6	1.96	0.79
24:BA:1453:A:H61	38:BQ:63:ARG:NH2	1.80	0.79
24:BA:1772:G:C2'	24:BA:1773:A:H4'	2.11	0.79
24:BA:1799:G:H5''	27:BD:264:LYS:CE	2.12	0.79
24:BA:1933:G:O6	24:BA:1968:G:N2	2.15	0.79
24:BA:2046:G:H5''	51:B4:19:ARG:HA	1.63	0.79
24:BA:2072:G:C4	24:BA:2073:C:C5	2.70	0.79
24:BA:2265:U:C2	24:BA:2266:A:N7	2.51	0.79
24:BA:2383:G:OP2	54:B7:39:LYS:HD3	1.82	0.79
24:BA:1782:C:N4	24:BA:2587:A:N6	2.30	0.79
24:BA:448:U:O4	24:BA:583:G:H1'	1.82	0.79
24:BA:568:U:H2'	24:BA:570:G:C8	2.18	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:685:A:O4'	24:BA:688:U:O4	1.99	0.79
24:BA:193:U:H4'	24:BA:803:U:C4'	2.11	0.79
27:BD:181:GLU:CB	27:BD:268:ARG:HH21	1.94	0.79
28:BE:45:THR:OG1	28:BE:80:GLU:O	2.01	0.79
29:BF:154:VAL:HB	29:BF:193:VAL:HG23	1.63	0.79
30:BG:41:GLN:NE2	30:BG:155:MET:HA	1.97	0.79
30:BG:15:VAL:O	30:BG:18:GLU:HB3	1.83	0.79
30:BG:1:MET:HB3	30:BG:2:PRO:CD	2.12	0.79
39:BR:67:ARG:O	39:BR:71:ARG:HG3	1.82	0.79
25:BB:35:U:O2	25:BB:35:U:H2'	1.80	0.79
18:AS:67:THR:O	18:AS:70:ALA:HB3	1.82	0.79
1:AA:1408:A:H2	1:AA:1494:G:HO2'	1.29	0.79
1:AA:279:A:H1'	1:AA:281:G:C4	2.17	0.79
1:AA:600:C:O2'	1:AA:601:C:H5'	1.83	0.79
1:AA:607:A:C2	1:AA:608:A:H1'	2.17	0.79
4:AE:18:GLY:O	4:AE:19:HIS:ND1	2.15	0.79
5:AF:152:ILE:HG22	5:AF:167:TRP:CB	2.13	0.79
6:AG:74:GLN:CA	6:AG:77:ASN:HD22	1.96	0.79
10:AK:9:MET:HG3	10:AK:26:VAL:HG11	1.65	0.79
19:AT:7:THR:HG23	19:AT:57:VAL:O	1.81	0.79
20:AU:74:ARG:HA	20:AU:79:LEU:HD11	1.65	0.79
21:AV:62:ILE:HG12	21:AV:67:VAL:HG22	1.64	0.79
54:B7:42:ARG:HB3	54:B7:43:GLN:HE22	1.47	0.79
54:B7:4:MET:CE	54:B7:62:LEU:HG	2.13	0.79
24:BA:1001:A:H2'	24:BA:1002:G:O4'	1.81	0.79
24:BA:1062:G:N2	33:BL:91:PRO:HG3	1.98	0.79
24:BA:1439:A:H2'	24:BA:1440:G:H5'	1.64	0.79
24:BA:1691:C:O2'	24:BA:1692:U:H5'	1.82	0.79
24:BA:1935:G:C2'	24:BA:1962:C:H42	1.95	0.79
24:BA:1967:C:H42	24:BA:1968:G:H21	1.29	0.79
24:BA:2734:A:N6	24:BA:2770:G:H1'	1.96	0.79
24:BA:396:G:OP1	50:B3:10:VAL:HG22	1.83	0.79
24:BA:641:C:C2'	24:BA:642:G:H5'	2.12	0.79
24:BA:704:G:H21	24:BA:725:G:H21	1.29	0.79
24:BA:997:G:C8	24:BA:997:G:OP2	2.35	0.79
27:BD:112:GLN:N	27:BD:115:GLN:NE2	2.31	0.79
28:BE:116:VAL:O	28:BE:120:TRP:CD1	2.36	0.79
29:BF:134:GLY:O	29:BF:166:ALA:HB2	1.83	0.79
31:BH:101:ARG:HD3	31:BH:117:PRO:HG3	1.64	0.79
34:BM:16:ILE:HD11	34:BM:52:VAL:CG2	2.09	0.79
34:BM:42:TRP:NE1	41:BT:64:ARG:HG2	1.98	0.79
35:BN:39:ILE:HD13	35:BN:39:ILE:N	1.98	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2394:C:OP1	36:BO:57:THR:HA	1.81	0.79
38:BQ:97:VAL:HG22	38:BQ:114:VAL:HG11	1.65	0.79
38:BQ:33:ARG:HA	38:BQ:115:GLU:HB3	1.64	0.79
44:BW:18:TYR:HA	44:BW:21:PHE:CD1	2.18	0.79
46:BY:161:VAL:O	46:BY:162:GLU:HB2	1.83	0.79
24:BA:2123:G:H4'	26:BC:172:HIS:CD2	2.17	0.79
1:AA:1234:C:H4'	1:AA:1364:U:H1'	1.65	0.79
1:AA:132:C:C2	1:AA:231:G:N2	2.51	0.79
1:AA:1519:A:H2'	1:AA:1520:G:H5'	1.65	0.79
1:AA:154:C:O2'	1:AA:155:C:H5'	1.83	0.79
1:AA:397:A:H2	1:AA:548:G:O6	1.66	0.79
12:AM:49:VAL:HG12	16:AQ:45:ARG:HD2	1.64	0.79
1:AA:375:U:H4'	18:AS:17:TYR:CE2	2.17	0.79
21:AV:3:ARG:NH2	21:AV:69:HIS:ND1	2.29	0.79
24:BA:1009:A:O2'	41:BT:62:ILE:HD13	1.83	0.79
24:BA:1078:U:H5''	24:BA:1079:C:OP1	1.81	0.79
24:BA:1119:C:H2'	24:BA:1120:G:H8	1.47	0.79
24:BA:1797:C:H2'	24:BA:1798:U:C6	2.18	0.79
24:BA:2007:C:H4'	24:BA:2824:C:O2'	1.83	0.79
24:BA:2606:C:H5'	24:BA:2606:C:H6	1.47	0.79
24:BA:281:G:N2	24:BA:283:A:H5''	1.96	0.79
24:BA:2832:U:H1'	24:BA:2834:G:C2	2.18	0.79
24:BA:470:A:H2'	24:BA:471:A:O4'	1.82	0.79
24:BA:776:G:H1'	24:BA:793:A:N1	1.97	0.79
24:BA:804:A:H5''	24:BA:805:G:OP1	1.82	0.79
25:BB:83:G:O2'	25:BB:84:C:H5'	1.82	0.79
27:BD:87:ASN:HD22	27:BD:87:ASN:H	1.31	0.79
28:BE:197:ILE:HD12	28:BE:197:ILE:H	1.47	0.79
34:BM:42:TRP:O	34:BM:43:THR:HG23	1.81	0.79
34:BM:93:THR:HG22	34:BM:94:HIS:CD2	2.18	0.79
36:BO:121:LYS:N	36:BO:122:PRO:HD3	1.98	0.79
24:BA:1242:A:H2	36:BO:6:LEU:HD21	1.48	0.79
36:BO:95:VAL:C	36:BO:97:PRO:HD2	2.03	0.79
37:BP:74:TYR:CD2	37:BP:74:TYR:N	2.49	0.79
38:BQ:36:THR:HB	38:BQ:40:LYS:CD	2.12	0.79
39:BR:57:LYS:HZ3	39:BR:62:LYS:HG3	1.48	0.79
40:BS:58:ASN:ND2	40:BS:58:ASN:N	2.30	0.79
44:BW:27:THR:HG22	44:BW:80:ILE:HG23	1.65	0.79
47:BZ:19:LYS:NZ	47:BZ:41:ARG:HE	1.81	0.79
47:BZ:28:GLY:N	47:BZ:67:VAL:HB	1.98	0.79
3:AB:70:G:H2'	3:AB:71:G:C8	2.18	0.79
1:AA:1053:G:C6	1:AA:1199:U:H2'	2.18	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:179:A:H3'	1:AA:180:U:H5	1.48	0.79
1:AA:243:A:H61	1:AA:283:C:H41	1.30	0.79
1:AA:731:G:H2'	1:AA:732:C:C6	2.18	0.79
1:AA:654:G:N2	1:AA:753:A:H1'	1.98	0.79
4:AE:208:ILE:HG21	4:AE:239:VAL:HG11	1.65	0.79
6:AG:127:THR:O	6:AG:146:ILE:HA	1.81	0.79
6:AG:59:ARG:HH22	6:AG:66:ARG:HH12	1.31	0.79
10:AK:109:ILE:HD11	10:AK:137:VAL:HB	1.64	0.79
14:AO:33:ARG:O	14:AO:84:LEU:HG	1.82	0.79
15:AP:13:LYS:HB3	15:AP:17:VAL:CG1	2.13	0.79
5:AF:12:LEU:HD21	16:AQ:58:LYS:H	1.48	0.79
19:AT:43:LEU:HD22	19:AT:44:ALA:H	1.48	0.79
22:AW:21:LYS:HA	22:AW:24:LEU:HD12	1.63	0.79
23:AX:24:ARG:O	23:AX:25:LYS:HB2	1.83	0.79
49:B2:19:GLN:O	49:B2:23:LEU:HD13	1.82	0.79
50:B3:64:GLY:HA2	50:B3:67:TYR:CD1	2.18	0.79
24:BA:1066:U:HO2'	24:BA:1068:G:H8	1.29	0.79
24:BA:1494:A:N3	24:BA:1494:A:H2'	1.97	0.79
24:BA:1268:A:C6	24:BA:2013:A:N7	2.51	0.79
24:BA:2034:U:C3'	24:BA:2035:G:H5''	2.08	0.79
24:BA:2481:G:O2'	24:BA:2482:G:H5'	1.82	0.79
24:BA:2835:A:H1'	24:BA:2836:U:H5	1.46	0.79
24:BA:312:G:H2'	24:BA:312:G:N3	1.95	0.79
24:BA:568:U:N3	24:BA:571:A:OP2	2.14	0.79
25:BB:27:C:N4	25:BB:56:G:H1	1.79	0.79
29:BF:139:PHE:HE2	29:BF:167:ALA:HA	1.48	0.79
30:BG:57:ALA:N	30:BG:68:PRO:HB2	1.98	0.79
30:BG:68:PRO:CB	30:BG:72:ARG:HH22	1.90	0.79
31:BH:164:TYR:HE2	31:BH:167:GLU:N	1.80	0.79
24:BA:2093:G:H5'	32:BK:25:TYR:CD1	2.18	0.79
33:BL:11:GLN:NE2	33:BL:73:PRO:HG2	1.98	0.79
35:BN:97:ARG:CB	35:BN:97:ARG:HH21	1.94	0.79
36:BO:122:PRO:HB2	36:BO:138:LEU:HB2	1.65	0.79
37:BP:34:LEU:O	37:BP:103:MET:CB	2.29	0.79
38:BQ:74:LYS:HB2	38:BQ:74:LYS:HZ2	1.48	0.79
39:BR:92:TYR:CZ	39:BR:93:LYS:HB3	2.18	0.79
45:BX:75:ILE:HG22	45:BX:100:ALA:CB	2.12	0.79
45:BX:82:PRO:HG3	45:BX:97:ARG:N	1.98	0.79
3:AD:58:A:O2'	3:AD:59:U:OP1	2.00	0.79
24:BA:2129:C:OP1	26:BC:6:ARG:HG3	1.83	0.79
26:BC:77:ILE:HD12	26:BC:123:VAL:CG1	2.12	0.79
1:AA:1154:G:H2'	1:AA:1155:G:H8	1.48	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.18	0.79
1:AA:1465:C:H2'	1:AA:1465:C:O2	1.82	0.79
1:AA:1480:G:O2'	1:AA:1481:U:H5'	1.81	0.79
1:AA:261:U:H2'	1:AA:263:A:OP2	1.83	0.79
1:AA:619:U:O2	6:AG:135:LEU:HD11	1.82	0.79
4:AE:101:MET:CB	4:AE:108:ILE:HG13	2.13	0.79
7:AH:11:ILE:HG22	7:AH:12:LEU:N	1.97	0.79
8:AI:53:ALA:HB1	8:AI:86:ARG:NH1	1.98	0.79
11:AL:117:HIS:O	11:AL:119:ALA:N	2.12	0.79
1:AA:718:G:H4'	13:AN:117:ASN:HD21	1.48	0.79
14:AO:87:GLY:HA2	14:AO:98:TYR:HB3	1.64	0.79
1:AA:1227:A:C8	15:AP:117:VAL:HG21	2.18	0.79
53:B6:8:ASN:HB3	53:B6:11:LYS:HB3	1.65	0.79
24:BA:1142:U:C6	24:BA:1142(A):A:H8	2.01	0.79
24:BA:120:U:H2'	24:BA:120:U:O2	1.82	0.79
24:BA:1533:C:C2	24:BA:1539:G:N2	2.51	0.79
24:BA:1935:G:H3'	24:BA:1962:C:H42	1.48	0.79
24:BA:205:G:O2'	24:BA:206:U:P	2.40	0.79
24:BA:1128:A:H62	24:BA:2518:A:H61	0.79	0.79
24:BA:2520:C:O2'	24:BA:2521:C:H5'	1.83	0.79
24:BA:657:U:H2'	24:BA:658:C:H6	1.48	0.79
24:BA:781:A:H2	24:BA:1776:G:N3	1.81	0.79
24:BA:906:G:N3	24:BA:906:G:H2'	1.98	0.79
27:BD:177:LEU:HD23	27:BD:177:LEU:H	1.46	0.79
27:BD:64:ILE:O	27:BD:65:ILE:HD13	1.82	0.79
28:BE:54:GLN:CD	28:BE:56:PRO:HD2	2.03	0.79
29:BF:9:ILE:HG21	29:BF:124:LEU:CB	2.12	0.79
30:BG:139:LEU:HD13	30:BG:142:PRO:HA	1.65	0.79
30:BG:75:LYS:HB3	30:BG:84:LYS:N	1.98	0.79
31:BH:77:LYS:O	31:BH:80:SER:OG	2.00	0.79
32:BK:7:GLU:HA	32:BK:14:ASP:CG	2.02	0.79
32:BK:5:LEU:HD12	32:BK:8:PRO:O	1.83	0.79
35:BN:18:LYS:CE	35:BN:44:LYS:HD3	2.12	0.79
38:BQ:61:HIS:CA	38:BQ:64:ARG:HD3	2.13	0.79
43:BV:17:VAL:CG2	43:BV:76:VAL:HG11	2.12	0.79
45:BX:35:TYR:O	45:BX:64:GLU:CB	2.30	0.79
45:BX:38:ILE:HG23	45:BX:60:PHE:CZ	2.18	0.79
46:BY:144:LEU:C	46:BY:174:VAL:HG21	2.02	0.79
46:BY:57:ILE:HG22	46:BY:58:VAL:N	1.96	0.79
26:BC:155:GLU:HG3	26:BC:159:GLY:O	1.83	0.79
1:AA:674:G:H2'	1:AA:675:A:C8	2.17	0.78
1:AA:781:A:N6	1:AA:802:A:C4	2.51	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:47:THR:HG23	4:AE:202:PRO:HD2	1.63	0.78
4:AE:78:GLN:NE2	4:AE:96:ARG:HH22	1.79	0.78
5:AF:15:THR:O	5:AF:16:ARG:HB3	1.79	0.78
8:AI:14:LEU:HD13	8:AI:18:GLN:HB3	1.63	0.78
9:AJ:126:ASP:HB3	9:AJ:131:LYS:O	1.83	0.78
11:AL:37:PHE:HE1	11:AL:74:ILE:HG23	1.47	0.78
11:AL:79:LEU:CD1	11:AL:101:PHE:HB3	2.14	0.78
14:AO:6:THR:O	14:AO:10:LEU:HB2	1.83	0.78
1:AA:1308:U:H5'	15:AP:110:ARG:HH12	1.45	0.78
1:AA:1216:G:H5''	16:AQ:5:ALA:HB1	1.64	0.78
48:B1:25:ARG:HG3	48:B1:25:ARG:HH21	1.48	0.78
50:B3:10:VAL:N	50:B3:11:PRO:HD3	1.96	0.78
24:BA:1613:G:C3'	24:BA:1614:A:H5'	2.13	0.78
24:BA:1657:C:H6	24:BA:1657:C:O5'	1.66	0.78
24:BA:1685:C:O2'	24:BA:1686:C:H5'	1.83	0.78
24:BA:2006:C:O2'	24:BA:2823:A:N3	2.16	0.78
27:BD:131:LEU:HG	27:BD:135:PHE:CD2	2.18	0.78
27:BD:206:LEU:O	27:BD:206:LEU:HD22	1.83	0.78
29:BF:105:VAL:HA	29:BF:108:LYS:HB2	1.64	0.78
29:BF:130:ALA:O	29:BF:139:PHE:HA	1.83	0.78
24:BA:1059:G:N2	33:BL:130:SER:HB3	1.97	0.78
36:BO:113:LYS:HB2	36:BO:129:ALA:HB1	1.65	0.78
37:BP:122:GLY:HA2	37:BP:125:LEU:HG	1.65	0.78
37:BP:42:ILE:CD1	37:BP:46:GLN:HB3	2.13	0.78
35:BN:122:LEU:N	40:BS:70:VAL:O	2.15	0.78
41:BT:88:ILE:HG22	42:BU:55:ALA:HB3	1.64	0.78
42:BU:62:LEU:CD1	42:BU:96:ILE:HB	2.02	0.78
46:BY:104:PHE:HA	46:BY:139:VAL:O	1.82	0.78
1:AA:10:A:OP2	7:AH:126:ARG:HD2	1.83	0.78
1:AA:120:A:H2'	1:AA:122:G:N7	1.98	0.78
1:AA:1316:G:H2'	1:AA:1318:A:OP2	1.82	0.78
1:AA:277:C:H5''	19:AT:68:ARG:HH12	1.49	0.78
1:AA:332:G:H2'	1:AA:333:G:H8	1.48	0.78
1:AA:52:G:H2'	1:AA:53:A:C8	2.18	0.78
1:AA:834:C:O2'	1:AA:835:U:H5'	1.83	0.78
5:AF:116:VAL:HG11	5:AF:141:VAL:HG21	1.64	0.78
5:AF:205:GLY:O	5:AF:206:GLU:HB2	1.82	0.78
6:AG:141:ARG:CD	6:AG:142:PRO:HD2	2.12	0.78
7:AH:43:LEU:N	7:AH:65:ASN:HD22	1.81	0.78
10:AK:18:ARG:CG	10:AK:18:ARG:HH11	1.95	0.78
10:AK:39:LEU:HB3	10:AK:45:ILE:HG21	1.65	0.78
14:AO:92:ASP:C	14:AO:93:LEU:HD23	2.04	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AP:24:GLY:O	15:AP:29:ARG:HD2	1.84	0.78
1:AA:280:C:H1'	19:AT:38:ARG:NE	1.98	0.78
22:AW:13:LEU:HB2	22:AW:17:ARG:NH2	1.97	0.78
24:BA:1446:C:H2'	24:BA:1447:G:H8	1.48	0.78
24:BA:1493:C:H2'	24:BA:1493:C:O2	1.82	0.78
24:BA:1495:A:H2'	24:BA:1496:A:N7	1.98	0.78
24:BA:1780:A:OP1	24:BA:1780:A:H4'	1.83	0.78
24:BA:1788:C:N4	24:BA:1789:A:N7	2.32	0.78
24:BA:1790:C:O2'	27:BD:209:ALA:HB3	1.83	0.78
24:BA:981:A:N3	24:BA:2037:G:H1'	1.98	0.78
24:BA:2097:C:C2'	24:BA:2098:U:H5'	2.13	0.78
24:BA:2308:G:H4'	24:BA:2308:G:OP1	1.82	0.78
24:BA:2031:A:H62	24:BA:2498:C:H1'	1.48	0.78
24:BA:2828:C:C2	24:BA:2829:C:C5	2.71	0.78
24:BA:307:G:N2	24:BA:309:G:H3'	1.98	0.78
24:BA:898:C:H5'	24:BA:899:A:OP2	1.83	0.78
24:BA:975:G:N1	24:BA:976:C:C6	2.50	0.78
28:BE:176:ILE:HG22	28:BE:181:LEU:O	1.83	0.78
29:BF:6:VAL:HB	29:BF:18:ARG:HD2	1.63	0.78
30:BG:26:GLN:NE2	30:BG:31:VAL:HG21	1.96	0.78
32:BK:38:LEU:HD22	32:BK:39:ALA:N	1.98	0.78
35:BN:59:LYS:HE2	35:BN:59:LYS:H	1.47	0.78
37:BP:130:LYS:HE3	37:BP:131:ILE:N	1.98	0.78
37:BP:67:ARG:CZ	37:BP:103:MET:CB	2.55	0.78
40:BS:21:GLU:HG3	40:BS:88:ILE:HD13	1.64	0.78
42:BU:6:LYS:HD3	42:BU:10:LYS:CG	2.13	0.78
46:BY:171:ILE:O	46:BY:171:ILE:HD12	1.83	0.78
46:BY:28:MET:HA	46:BY:28:MET:CE	2.12	0.78
32:BK:66:GLU:CA	32:BK:69:LYS:HD3	2.13	0.78
32:BK:19:VAL:HG12	32:BK:20:ASP:H	1.45	0.78
7:AH:153:LYS:HG2	7:AH:154:GLY:H	1.48	0.78
1:AA:1074:G:H4'	4:AE:103:THR:O	1.82	0.78
1:AA:1389:C:C2'	1:AA:1390:U:H5'	2.13	0.78
1:AA:1418:A:N3	24:BA:1959:G:H1'	1.98	0.78
1:AA:251:G:H22	1:AA:272:C:N4	1.80	0.78
1:AA:520:A:H3'	1:AA:521:G:H5''	1.64	0.78
1:AA:594:G:N7	1:AA:595:G:N2	2.32	0.78
1:AA:704:A:H2'	1:AA:705:U:C6	2.18	0.78
1:AA:944:G:H3'	1:AA:945:G:H5''	1.63	0.78
6:AG:15:GLU:HG2	6:AG:63:LYS:HB3	1.64	0.78
9:AJ:35:LYS:HZ3	9:AJ:38:LEU:HD22	1.46	0.78
1:AA:973:G:H1'	12:AM:55:LYS:H	1.47	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AO:47:LYS:N	14:AO:48:PRO:HD3	1.98	0.78
22:AW:21:LYS:O	22:AW:24:LEU:HB2	1.83	0.78
50:B3:52:THR:HG22	50:B3:53:GLU:H	1.48	0.78
24:BA:125:G:H22	53:B6:10:ARG:HA	1.45	0.78
24:BA:1270:C:H1'	24:BA:1325:G:C5	2.18	0.78
24:BA:1672:C:C3'	24:BA:1673:U:H5''	2.14	0.78
24:BA:1993:U:C6	24:BA:1994:C:H5	2.01	0.78
24:BA:574:C:N4	24:BA:2054:A:H5''	1.99	0.78
24:BA:2233:U:H2'	24:BA:2234:G:C8	2.19	0.78
24:BA:2307:G:C4	24:BA:2308:G:H1'	2.18	0.78
24:BA:2335:A:H2'	24:BA:2337:G:N7	1.98	0.78
24:BA:244:A:O2'	36:BO:66:GLY:HA2	1.83	0.78
24:BA:2450:A:O2'	24:BA:2451:A:H5'	1.83	0.78
24:BA:2457:U:H2'	24:BA:2458:G:O4'	1.82	0.78
24:BA:2493:U:H6	24:BA:2493:U:H3'	1.46	0.78
24:BA:1953:A:N3	24:BA:2560:C:H1'	1.97	0.78
24:BA:270(B):A:H5'	24:BA:366:C:O4'	1.82	0.78
24:BA:2880:C:H4'	38:BQ:90:ARG:HD2	1.62	0.78
24:BA:653:A:H5'	24:BA:654:A:O2'	1.83	0.78
24:BA:673:C:H5'	29:BF:82:ILE:HG23	1.65	0.78
24:BA:71:A:C4'	24:BA:72:U:H5''	2.11	0.78
24:BA:975:G:N2	24:BA:976:C:O4'	2.17	0.78
28:BE:154:LYS:HZ2	28:BE:156:MET:HB2	1.48	0.78
28:BE:201:THR:C	28:BE:202:LYS:HD3	2.04	0.78
28:BE:7:VAL:HG22	28:BE:192:ASN:HA	1.66	0.78
34:BM:22:THR:HG22	34:BM:61:ARG:NH2	1.98	0.78
24:BA:623:G:H8	36:BO:105:LEU:HB2	1.48	0.78
38:BQ:61:HIS:ND1	38:BQ:64:ARG:CZ	2.46	0.78
44:BW:36:LYS:CD	44:BW:54:VAL:HG12	2.13	0.78
44:BW:47:PHE:CE2	44:BW:89:ILE:HA	2.14	0.78
45:BX:5:MET:SD	45:BX:33:LYS:HE2	2.22	0.78
46:BY:103:ARG:HA	46:BY:103:ARG:HE	1.48	0.78
46:BY:37:VAL:O	46:BY:38:TYR:HD2	1.64	0.78
47:BZ:44:ARG:HE	47:BZ:77:ARG:HD2	1.48	0.78
24:BA:2135:A:H4'	24:BA:2136:C:C6	2.17	0.78
26:BC:73:ARG:HG2	26:BC:92:ASP:OD2	1.82	0.78
24:BA:274:G:N3	24:BA:274:G:H3'	1.98	0.78
1:AA:1378:C:H2'	1:AA:1378:C:O2	1.82	0.78
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.18	0.78
1:AA:589:C:OP1	10:AK:5:PRO:HG2	1.82	0.78
1:AA:633:G:H2'	1:AA:634:C:C6	2.18	0.78
1:AA:67:C:H5'	1:AA:172:A:O2'	1.84	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:872:A:H2'	1:AA:873:A:H5''	1.65	0.78
4:AE:162:ILE:HD13	4:AE:183:PRO:O	1.84	0.78
4:AE:44:LEU:O	4:AE:48:MET:SD	2.41	0.78
5:AF:159:GLY:N	5:AF:193:TYR:HE1	1.81	0.78
5:AF:31:HIS:ND1	5:AF:34:LEU:HD13	1.99	0.78
5:AF:84:ILE:HG13	5:AF:101:LEU:HD13	1.66	0.78
7:AH:16:THR:HG23	7:AH:28:PHE:HA	1.65	0.78
8:AI:76:ALA:HB3	8:AI:80:ARG:NH2	1.98	0.78
9:AJ:104:LEU:HD23	9:AJ:134:ALA:CB	2.13	0.78
10:AK:65:TYR:O	10:AK:67:PRO:HD3	1.81	0.78
10:AK:82:HIS:NE2	10:AK:84:ARG:HG3	1.99	0.78
13:AN:73:MET:HG2	13:AN:103:LEU:HD13	1.65	0.78
18:AS:8:ARG:HH12	18:AS:11:SER:H	1.30	0.78
19:AT:36:ILE:N	19:AT:36:ILE:HD13	1.99	0.78
24:BA:1639:U:H2'	24:BA:1640:C:H5''	1.64	0.78
24:BA:1725:G:C6	24:BA:1741:C:N4	2.52	0.78
24:BA:1996:C:H2'	24:BA:1997:G:C4'	2.13	0.78
24:BA:209:C:H2'	24:BA:210:C:H5'	1.65	0.78
24:BA:2523:G:H1'	24:BA:2765:A:H62	1.47	0.78
24:BA:536:A:H2'	24:BA:537:C:O4'	1.83	0.78
24:BA:811:U:O4	36:BO:22:GLY:CA	2.25	0.78
25:BB:17:C:H2'	25:BB:18:G:O4'	1.83	0.78
25:BB:21:G:H2'	25:BB:22:U:O4'	1.84	0.78
25:BB:31:C:C2	25:BB:32:C:H5	2.01	0.78
24:BA:781:A:C1'	27:BD:222:ARG:HH12	1.91	0.78
27:BD:244:ARG:N	27:BD:245:PRO:CD	2.46	0.78
28:BE:169:ASN:HD22	28:BE:170:LEU:H	1.32	0.78
29:BF:156:LEU:HD12	29:BF:167:ALA:HB2	1.65	0.78
29:BF:42:ALA:O	29:BF:45:ARG:HB2	1.82	0.78
30:BG:125:PHE:HB2	30:BG:131:TYR:O	1.82	0.78
33:BL:39:LYS:HA	33:BL:42:ASN:ND2	1.98	0.78
34:BM:15:LEU:HD21	34:BM:137:LYS:C	2.04	0.78
35:BN:16:ALA:HB3	35:BN:45:GLU:HB2	1.64	0.78
39:BR:60:GLY:O	39:BR:62:LYS:N	2.13	0.78
40:BS:53:ARG:NE	40:BS:53:ARG:CA	2.45	0.78
40:BS:64:ARG:O	40:BS:66:VAL:HG22	1.83	0.78
24:BA:1325:G:N2	43:BV:86:LEU:HD13	1.96	0.78
45:BX:108:THR:O	45:BX:109:GLU:HG3	1.83	0.78
32:BK:111:PRO:HG2	32:BK:112:LYS:HD2	1.64	0.78
24:BA:2165:G:H2'	24:BA:2166:G:O4'	1.83	0.78
26:BC:214:VAL:CG2	26:BC:224:ILE:HD13	2.13	0.78
26:BC:59:ARG:HG3	26:BC:60:GLY:H	1.48	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:182:A:H2'	24:BA:183:C:H6	1.46	0.78
24:BA:1509:C:OP1	24:BA:1510:A:H8	1.66	0.78
1:AA:1461:G:H2'	1:AA:1462:G:H8	1.48	0.78
1:AA:174:C:C2	1:AA:175:C:C5	2.71	0.78
3:AC:47:U:O4	3:AC:49:C:H4'	1.83	0.78
4:AE:147:LYS:HE2	4:AE:147:LYS:HA	1.65	0.78
4:AE:95:GLN:CG	4:AE:148:TYR:HB3	2.13	0.78
4:AE:24:TRP:CH2	4:AE:26:PRO:HA	2.18	0.78
8:AI:78:GLU:O	8:AI:81:ILE:HB	1.83	0.78
1:AA:1320:C:H42	21:AV:36:ARG:HH11	1.29	0.78
48:B1:25:ARG:O	48:B1:28:MET:HB2	1.84	0.78
52:B5:30:THR:HG22	52:B5:31:PRO:HD3	1.64	0.78
53:B6:21:ARG:CB	53:B6:31:LEU:HD11	2.13	0.78
24:BA:1222:C:N4	24:BA:1227:A:H61	1.78	0.78
24:BA:1706:U:H3	24:BA:1757:U:H5''	1.46	0.78
24:BA:1785:A:O5'	24:BA:1982:C:H4'	1.83	0.78
24:BA:1872:A:C2'	24:BA:1878:G:H5'	2.12	0.78
24:BA:1882:C:N3	24:BA:1883:G:H1'	1.98	0.78
24:BA:2238:G:H1'	24:BA:2240:C:H5	1.48	0.78
24:BA:2291:U:OP1	24:BA:2381:C:H5'	1.83	0.78
24:BA:2587:A:H2'	24:BA:2588:G:H5'	1.65	0.78
24:BA:1759:A:H5'	24:BA:2715:C:H1'	1.64	0.78
24:BA:293:U:H6	24:BA:293:U:H3'	1.48	0.78
24:BA:832:G:P	36:BO:35:HIS:HB2	2.23	0.78
25:BB:31:C:C2	25:BB:32:C:C5	2.71	0.78
27:BD:232:PRO:HD2	27:BD:247:ALA:HA	1.65	0.78
24:BA:1805:U:H1'	27:BD:51:VAL:HG11	1.65	0.78
15:AP:7:VAL:CG1	30:BG:140:ILE:HG21	2.13	0.78
30:BG:57:ALA:O	30:BG:67:LYS:HB2	1.84	0.78
30:BG:61:ALA:HB2	30:BG:67:LYS:HE2	1.64	0.78
31:BH:33:LEU:HD13	31:BH:75:ALA:HA	1.66	0.78
32:BK:2:LYS:CD	32:BK:39:ALA:HB2	2.14	0.78
34:BM:109:LYS:HG2	34:BM:112:LEU:HB2	1.64	0.78
34:BM:12:ARG:O	34:BM:12:ARG:HD2	1.84	0.78
34:BM:88:GLU:HB2	34:BM:89:LYS:CE	2.14	0.78
37:BP:134:ARG:NH2	37:BP:137:TYR:CD1	2.51	0.78
37:BP:99:PRO:HG2	37:BP:101:ARG:HE	1.49	0.78
38:BQ:52:ILE:O	38:BQ:52:ILE:HD13	1.83	0.78
40:BS:58:ASN:N	40:BS:61:PHE:CD2	2.51	0.78
43:BV:64:MET:CG	43:BV:109:GLU:HG3	2.13	0.78
46:BY:24:LEU:HD13	46:BY:83:PRO:CD	2.14	0.78
26:BC:113:VAL:HG12	26:BC:138:PRO:HG3	1.65	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:BC:90:GLY:HA3	26:BC:157:LYS:HB2	1.66	0.78
24:BA:2185:C:H2'	24:BA:2186:G:C8	2.18	0.78
1:AA:1057:G:H4'	5:AF:197:GLY:H	1.49	0.78
1:AA:1375:A:C2	1:AA:1376:U:C2	2.71	0.78
4:AE:192:SER:C	4:AE:194:PRO:HD3	2.03	0.78
4:AE:16:HIS:CE1	4:AE:210:SER:HA	2.19	0.78
5:AF:11:ARG:HH22	5:AF:179:ARG:H	1.30	0.78
6:AG:38:TYR:HB2	6:AG:39:PRO:HD2	1.63	0.78
7:AH:78:HIS:CB	10:AK:104:ARG:HD3	2.14	0.78
11:AL:50:LEU:HD13	11:AL:56:LEU:HG	1.64	0.78
12:AM:24:VAL:HG22	12:AM:34:VAL:HG11	1.65	0.78
13:AN:46:GLY:CA	13:AN:55:LYS:HD2	2.13	0.78
1:AA:1318:A:H4'	21:AV:10:PHE:CD2	2.19	0.78
22:AW:29:LYS:O	22:AW:32:ALA:HB3	1.84	0.78
22:AW:66:ALA:HB3	22:AW:72:LEU:HD12	1.64	0.78
48:B1:27:LEU:HD21	48:B1:48:LEU:HB3	1.64	0.78
50:B3:68:ARG:NH1	50:B3:68:ARG:N	2.25	0.78
51:B4:11:THR:HG23	51:B4:15:ARG:CB	2.13	0.78
54:B7:21:LYS:NZ	54:B7:21:LYS:HB2	1.98	0.78
54:B7:49:VAL:O	54:B7:53:PRO:HG3	1.82	0.78
24:BA:1203:G:N1	24:BA:1241:A:C8	2.52	0.78
24:BA:1491:G:C3'	24:BA:1492:G:H4'	2.14	0.78
24:BA:2014:A:N3	24:BA:2015:A:N1	2.31	0.78
24:BA:2051:A:OP2	24:BA:2051:A:O4'	2.01	0.78
24:BA:2649:U:H2'	24:BA:2650:U:H6	1.47	0.78
24:BA:270(P):C:H2'	24:BA:270(Q):C:H6	1.49	0.78
24:BA:623:G:P	36:BO:105:LEU:HD21	2.23	0.78
25:BB:31:C:O2	25:BB:53:A:N6	2.17	0.78
27:BD:147:LEU:HB3	27:BD:185:VAL:CG2	2.11	0.78
27:BD:5:LYS:NZ	27:BD:31:LYS:NZ	2.27	0.78
29:BF:8:GLN:C	29:BF:9:ILE:HD12	2.04	0.78
34:BM:100:GLU:OE2	34:BM:100:GLU:HA	1.82	0.78
34:BM:38:HIS:HB3	34:BM:48:MET:CE	2.14	0.78
35:BN:63:VAL:HA	35:BN:78:ARG:HD3	1.63	0.78
36:BO:49:ARG:HG2	36:BO:49:ARG:HH21	1.48	0.78
37:BP:102:VAL:O	37:BP:102:VAL:HG13	1.83	0.78
37:BP:38:GLU:N	37:BP:39:PRO:HD3	1.99	0.78
38:BQ:50:HIS:O	38:BQ:53:HIS:HB3	1.84	0.78
42:BU:67:GLY:O	42:BU:93:GLU:O	2.02	0.78
45:BX:14:LEU:HD22	45:BX:19:LYS:HB2	1.65	0.78
46:BY:122:ARG:HG2	46:BY:170:THR:O	1.83	0.78
26:BC:134:ARG:HD3	26:BC:136:LEU:HD12	1.66	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:262:A:H2'	1:AA:263:A:N7	1.97	0.78
1:AA:748:C:C6	1:AA:748:C:O5'	2.36	0.78
9:AJ:36:LYS:HA	9:AJ:36:LYS:NZ	1.98	0.78
10:AK:115:SER:C	10:AK:116:LYS:HD2	2.04	0.78
10:AK:88:LYS:NZ	10:AK:88:LYS:H	1.81	0.78
15:AP:55:ARG:HH21	15:AP:56:LEU:HD21	1.45	0.78
17:AR:32:LEU:O	17:AR:36:ILE:HB	1.83	0.78
19:AT:5:VAL:HG12	19:AT:6:LEU:N	1.98	0.78
20:AU:67:ALA:HA	20:AU:70:ILE:HD12	1.64	0.78
53:B6:21:ARG:HB3	53:B6:31:LEU:CD1	2.13	0.78
24:BA:630:G:C5'	54:B7:46:ARG:HH12	1.97	0.78
24:BA:1179:C:HO2'	24:BA:1180:C:H6	0.78	0.78
24:BA:1419:A:H3'	24:BA:1420:U:C2	2.18	0.78
24:BA:1324:G:C1'	24:BA:1616:A:N6	2.45	0.78
24:BA:2043:C:H6	24:BA:2043:C:OP1	1.67	0.78
24:BA:2698:U:H2'	24:BA:2699:C:C5	2.18	0.78
24:BA:516:C:O2'	24:BA:517:C:H5'	1.84	0.78
24:BA:673:C:H2'	24:BA:674:G:C5'	2.13	0.78
24:BA:865:C:H42	24:BA:909:A:H62	1.28	0.78
24:BA:878:A:H2'	24:BA:879:G:H5''	1.66	0.78
24:BA:8:A:H5''	34:BM:51:PHE:CE2	2.18	0.78
24:BA:996:A:H2'	24:BA:997:G:C8	2.17	0.78
24:BA:1799:G:O6	27:BD:177:LEU:HD12	1.84	0.78
31:BH:153:LYS:HB2	31:BH:162:ILE:CG2	2.14	0.78
35:BN:96:THR:CA	35:BN:117:LEU:HD11	2.12	0.78
36:BO:59:LEU:HD12	36:BO:60:MET:SD	2.24	0.78
37:BP:8:LYS:CE	37:BP:93:TYR:HB3	2.14	0.78
40:BS:53:ARG:CB	40:BS:65:LYS:O	2.29	0.78
24:BA:1615:C:C2	43:BV:87:PRO:HG3	2.19	0.78
44:BW:12:VAL:HG23	44:BW:28:PHE:CA	2.12	0.78
46:BY:53:ILE:O	46:BY:54:HIS:ND1	2.16	0.78
26:BC:180:PHE:CE2	26:BC:184:LYS:HD3	2.19	0.78
26:BC:22:ILE:HD13	26:BC:190:ARG:NH1	1.99	0.78
34:BM:6:PRO:HA	34:BM:41:ASP:CB	2.13	0.78
1:AA:279:A:H1'	1:AA:281:G:N3	1.98	0.78
1:AA:331:G:OP1	1:AA:332:G:H8	1.67	0.78
1:AA:486:U:H2'	1:AA:487:A:O5'	1.84	0.78
1:AA:501:C:H1'	1:AA:549:C:H1'	1.66	0.78
3:AD:76:A:H3'	24:BA:2432:A:H4'	1.66	0.78
6:AG:12:CYS:CA	6:AG:19:LEU:HB2	2.13	0.78
6:AG:198:VAL:HG23	6:AG:199:ASN:H	1.48	0.78
6:AG:205:GLU:OE2	7:AH:100:VAL:HB	1.82	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AH:48:ALA:HB1	7:AH:53:LEU:HD12	1.66	0.78
9:AJ:143:ARG:HD2	9:AJ:144:MET:H	1.49	0.78
12:AM:25:GLU:O	12:AM:28:ARG:HB2	1.84	0.78
1:AA:751:U:H4'	17:AR:24:SER:OG	1.83	0.78
19:AT:5:VAL:CG1	19:AT:59:ILE:O	2.31	0.78
50:B3:38:LYS:HG2	50:B3:39:CYS:H	1.47	0.78
24:BA:397:G:P	50:B3:41:PRO:HG3	2.23	0.78
51:B4:17:ASP:O	51:B4:19:ARG:N	2.16	0.78
24:BA:141:A:C2	24:BA:141(A):C:O4'	2.37	0.78
24:BA:1864:U:C2'	24:BA:1869:G:H5'	2.14	0.78
24:BA:2073:C:C2'	24:BA:2074:U:H5'	2.14	0.78
24:BA:2718:G:H2'	24:BA:2719:G:H8	1.49	0.78
24:BA:535:C:O2'	24:BA:536:A:H5'	1.83	0.78
24:BA:602:G:H8	24:BA:602:G:O5'	1.66	0.78
24:BA:776:G:O2'	24:BA:777:A:OP2	2.02	0.78
28:BE:147:PRO:HB2	28:BE:149:ARG:HD2	1.66	0.78
28:BE:60:ASN:HA	28:BE:63:LEU:HD12	1.64	0.78
30:BG:12:TYR:HA	30:BG:15:VAL:CG2	2.14	0.78
31:BH:26:VAL:HG21	31:BH:75:ALA:HB1	1.66	0.78
31:BH:89:ILE:HD12	31:BH:90:LYS:N	1.99	0.78
32:BK:15:VAL:HG12	32:BK:16:GLY:N	1.99	0.78
34:BM:54:VAL:HG12	34:BM:122:VAL:CB	2.14	0.78
35:BN:37:ASP:N	35:BN:61:VAL:HB	1.99	0.78
36:BO:15:ARG:CZ	36:BO:16:ARG:H	1.97	0.78
24:BA:2484:G:H1'	37:BP:124:LYS:NZ	1.98	0.78
39:BR:26:LEU:HD22	39:BR:27:SER:N	1.98	0.78
39:BR:3:ARG:CG	39:BR:4:LEU:HG	2.12	0.78
44:BW:49:VAL:HG12	44:BW:88:LYS:HG3	1.65	0.78
24:BA:1312:U:H5'	44:BW:63:LYS:HE3	1.65	0.78
24:BA:2114:A:H2'	24:BA:2115:G:H5'	1.64	0.78
26:BC:22:ILE:O	26:BC:25:ALA:HB3	1.83	0.78
33:BL:98:ARG:HD3	33:BL:139:VAL:CB	2.14	0.78
33:BL:95:LYS:HD3	33:BL:98:ARG:HH21	1.48	0.78
1:AA:1313:U:H5	21:AV:4:SER:HB2	1.46	0.78
1:AA:192:U:H1'	22:AW:103:GLY:HA2	1.66	0.78
1:AA:759:A:H4'	1:AA:881:G:OP1	1.84	0.78
1:AA:872:A:O2'	1:AA:873:A:OP1	2.01	0.78
1:AA:947:G:O2'	1:AA:948:C:H5'	1.82	0.78
4:AE:88:ALA:HA	4:AE:219:VAL:HG13	1.66	0.78
1:AA:404:U:C4'	6:AG:122:ARG:HH11	1.96	0.78
9:AJ:106:GLN:HE21	9:AJ:106:GLN:CA	1.95	0.78
9:AJ:78:ARG:HB2	9:AJ:156:TRP:CH2	2.19	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AH:152:ARG:NH2	10:AK:43:GLY:HA3	1.97	0.78
12:AM:22:LYS:HZ2	12:AM:90:LEU:HD12	1.48	0.78
14:AO:84:LEU:HG	14:AO:85:ILE:H	1.48	0.78
1:AA:1329:A:H5'	15:AP:29:ARG:NE	1.98	0.78
15:AP:14:ARG:HG2	15:AP:44:ARG:NH1	1.99	0.78
17:AR:39:LEU:HD22	17:AR:56:LEU:HD22	1.66	0.78
18:AS:31:LYS:HB3	18:AS:31:LYS:NZ	1.98	0.78
19:AT:19:VAL:CG2	19:AT:46:ASP:HB2	2.13	0.78
22:AW:40:ALA:HA	22:AW:55:ILE:HD12	1.66	0.78
52:B5:16:CYS:HB3	52:B5:49:HIS:CG	2.18	0.78
52:B5:25:LYS:HE2	54:B7:35:GLN:HB3	1.65	0.78
24:BA:72:U:O4	24:BA:112:U:H1'	1.82	0.78
24:BA:1264:G:C3'	24:BA:1265:A:H5''	2.14	0.78
24:BA:1710:C:H2'	24:BA:1711:C:C6	2.16	0.78
24:BA:1842:G:O2'	24:BA:1843:C:H5'	1.83	0.78
24:BA:190:A:H2'	24:BA:191:A:H8	1.48	0.78
24:BA:2488:A:O2'	24:BA:2489:G:H5'	1.84	0.78
24:BA:2591:C:C2'	24:BA:2592:G:H8	1.92	0.78
24:BA:2825:C:H6	24:BA:2825:C:O5'	1.65	0.78
24:BA:668:G:H2'	24:BA:670:A:H62	1.49	0.78
24:BA:774:A:H1'	24:BA:775:G:C8	2.18	0.78
24:BA:851:U:H4'	49:B2:46:ASN:HA	1.65	0.78
25:BB:77:U:H2'	25:BB:78:A:C8	2.19	0.78
27:BD:146:GLU:HB2	27:BD:154:LYS:N	1.97	0.78
30:BG:8:LYS:HZ1	30:BG:176:LEU:HD11	1.48	0.78
31:BH:74:ASN:HB2	31:BH:138:LYS:NZ	1.99	0.78
37:BP:134:ARG:NE	37:BP:137:TYR:HA	1.98	0.78
39:BR:75:GLU:HA	39:BR:78:LEU:HB3	1.66	0.78
40:BS:26:ASP:HA	40:BS:100:TYR:OH	1.84	0.78
24:BA:1225:C:O4'	42:BU:87:HIS:HE1	1.67	0.78
24:BA:494:G:H5'	43:BV:7:ALA:HA	1.66	0.78
47:BZ:37:LEU:N	47:BZ:37:LEU:HD23	1.99	0.78
26:BC:77:ILE:HG22	26:BC:119:VAL:HG21	1.64	0.78
26:BC:123:VAL:HG11	26:BC:138:PRO:HG2	1.66	0.78
3:AC:44:G:C2	3:AC:45:U:H1'	2.18	0.78
1:AA:225:C:C2'	1:AA:226:G:H5'	2.14	0.78
1:AA:520:A:N6	1:AA:529:G:N2	2.32	0.78
1:AA:751:U:H2'	1:AA:752:G:O4'	1.82	0.78
3:AC:24:G:H2'	3:AC:25:C:H6	1.49	0.78
4:AE:102:LEU:HD22	4:AE:176:GLU:CB	2.13	0.78
4:AE:53:ARG:HH12	4:AE:200:ILE:HD12	1.47	0.78
5:AF:17:ASP:HB3	5:AF:18:TRP:HE3	1.49	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:36:ASP:HA	5:AF:39:ILE:HD12	1.66	0.78
14:AO:5:PRO:HB3	14:AO:10:LEU:HD11	1.66	0.78
14:AO:35:GLY:O	14:AO:82:VAL:HG13	1.82	0.78
20:AU:69:THR:HA	20:AU:72:ARG:HG3	1.66	0.78
24:BA:1050:A:O2'	24:BA:1051:G:H5'	1.83	0.78
24:BA:1779:U:C2'	24:BA:1783:A:H62	1.95	0.78
24:BA:2378:A:C2	24:BA:2379:G:H1'	2.18	0.78
24:BA:2447:G:C3'	24:BA:2499:C:OP2	2.32	0.78
24:BA:2519:U:C6	24:BA:2542:A:C6	2.72	0.78
24:BA:2553:G:N2	24:BA:2554:U:HO2'	1.82	0.78
24:BA:2572:A:C4'	24:BA:2573:C:H5''	2.07	0.78
24:BA:861:A:OP2	24:BA:862:G:OP2	2.02	0.78
27:BD:55:GLY:HA2	27:BD:217:ARG:NE	1.98	0.78
28:BE:9:VAL:HG12	28:BE:192:ASN:HD22	1.49	0.78
28:BE:200:GLU:HB3	28:BE:202:LYS:NZ	1.98	0.78
30:BG:146:TYR:CE1	30:BG:149:VAL:HA	2.19	0.78
33:BL:18:THR:CA	33:BL:38:VAL:HG21	2.13	0.78
34:BM:36:GLY:O	34:BM:47:ALA:HB3	1.84	0.78
37:BP:134:ARG:HE	37:BP:137:TYR:CA	1.96	0.78
37:BP:43:THR:HG23	37:BP:46:GLN:CB	2.14	0.78
37:BP:6:ARG:HH21	37:BP:8:LYS:HG3	1.49	0.78
1:AA:1432:G:OP1	40:BS:111:ARG:HB2	1.83	0.78
41:BT:79:PHE:CZ	41:BT:83:LEU:HD11	2.19	0.78
41:BT:97:ASP:HA	41:BT:101:ARG:HH21	1.49	0.78
45:BX:46:LYS:HG3	45:BX:58:GLY:H	1.49	0.78
1:AA:339:C:H2'	1:AA:340:U:H6	1.48	0.78
1:AA:130:A:C5	1:AA:264:U:H1'	2.18	0.77
1:AA:67:C:H4'	1:AA:172:A:O4'	1.84	0.77
1:AA:1493:A:N6	3:AB:37:A:H5'	1.98	0.77
3:AC:31:A:H5'	3:AC:32:U:OP2	1.83	0.77
7:AH:100:VAL:CG1	7:AH:107:ARG:HG3	2.14	0.77
7:AH:59:GLY:O	7:AH:62:ALA:HB3	1.85	0.77
13:AN:104:GLN:HE22	13:AN:106:LYS:H	1.31	0.77
13:AN:61:ALA:CB	13:AN:94:ALA:HB2	2.07	0.77
17:AR:6:GLU:N	17:AR:6:GLU:OE2	2.16	0.77
20:AU:37:VAL:HG12	20:AU:41:LYS:CE	2.14	0.77
48:B1:52:ILE:CA	48:B1:55:LEU:HD22	2.14	0.77
50:B3:53:GLU:CG	50:B3:54:GLY:H	1.96	0.77
24:BA:1634:A:O2'	24:BA:1635:G:OP1	2.02	0.77
24:BA:1935:G:HO2'	24:BA:1937:A:H2	0.78	0.77
24:BA:203:C:H3'	24:BA:204:A:H8	1.47	0.77
24:BA:2570:G:N2	24:BA:2571:C:C2	2.52	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:359:A:O2'	24:BA:360:G:N7	2.14	0.77
24:BA:261:G:C4'	24:BA:608:A:C2	2.65	0.77
24:BA:747:U:O2'	24:BA:748:G:OP1	2.01	0.77
27:BD:78:LYS:HG2	27:BD:114:GLY:O	1.84	0.77
27:BD:176:ARG:HH22	27:BD:270:ILE:CD1	1.98	0.77
28:BE:108:SER:OG	28:BE:164:ARG:CA	2.31	0.77
30:BG:131:TYR:HB2	30:BG:159:VAL:H	1.49	0.77
30:BG:141:PHE:C	30:BG:143:GLU:N	2.36	0.77
24:BA:2312:U:HO2'	30:BG:40:ASN:CG	1.86	0.77
31:BH:110:SER:C	31:BH:112:PRO:HD2	2.04	0.77
33:BL:12:LEU:CD2	33:BL:22:PRO:HB2	2.14	0.77
36:BO:46:LYS:O	36:BO:46:LYS:HD2	1.83	0.77
38:BQ:12:ARG:NH1	38:BQ:16:HIS:HB3	1.99	0.77
38:BQ:37:THR:HG23	38:BQ:40:LYS:HD2	1.66	0.77
40:BS:1:MET:CG	40:BS:2:ASN:H	1.95	0.77
40:BS:46:GLU:OE1	40:BS:47:GLY:N	2.16	0.77
35:BN:122:LEU:HG	40:BS:71:GLY:C	2.03	0.77
35:BN:122:LEU:CB	40:BS:71:GLY:HA3	2.14	0.77
42:BU:26:ASP:C	42:BU:29:PRO:HD2	2.03	0.77
42:BU:35:LEU:HG	42:BU:36:PRO:HD2	1.66	0.77
42:BU:18:LEU:CD1	42:BU:66:ARG:HH12	1.97	0.77
45:BX:74:PRO:C	45:BX:76:CYS:H	1.86	0.77
46:BY:161:VAL:HG12	46:BY:162:GLU:H	1.48	0.77
46:BY:94:GLU:N	46:BY:95:PRO:CD	2.46	0.77
1:AA:1144:G:H22	1:AA:1146:A:H62	1.29	0.77
1:AA:22:G:H5'	1:AA:885:G:O4'	1.83	0.77
4:AE:145:LEU:O	4:AE:149:LEU:CB	2.32	0.77
6:AG:10:ARG:HD3	6:AG:10:ARG:C	2.05	0.77
14:AO:41:ARG:HG2	14:AO:42:THR:N	1.99	0.77
8:AI:98:LEU:HG	20:AU:28:GLU:CG	2.14	0.77
20:AU:67:ALA:HA	20:AU:70:ILE:CD1	2.13	0.77
22:AW:54:LYS:O	22:AW:57:ARG:HB2	1.84	0.77
23:AX:14:TRP:CZ3	23:AX:15:ARG:CZ	2.67	0.77
48:B1:45:ILE:HG13	48:B1:46:ARG:N	1.99	0.77
55:B8:7:VAL:HG13	55:B8:34:GLN:OE1	1.84	0.77
24:BA:1183:G:H4'	24:BA:1184:G:O5'	1.82	0.77
24:BA:1327:C:H3'	24:BA:1328:G:H8	1.49	0.77
24:BA:1520:U:H2'	24:BA:1521:G:C5'	2.07	0.77
24:BA:1603:A:H3'	24:BA:1603:A:OP2	1.84	0.77
24:BA:2208:U:O2'	27:BD:151:LYS:HD3	1.85	0.77
24:BA:2447:G:C5'	24:BA:2500:U:OP2	2.28	0.77
24:BA:2515:C:O2'	24:BA:2516:G:H5'	1.84	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2524:G:H2'	24:BA:2525:G:O4'	1.83	0.77
24:BA:270:A:H2'	24:BA:270(A):A:O4'	1.84	0.77
24:BA:281:G:N3	24:BA:281:G:H2'	1.98	0.77
24:BA:640:C:C2'	24:BA:641:C:C5'	2.60	0.77
24:BA:759:G:H2'	24:BA:760:G:C8	2.16	0.77
24:BA:874:G:H2'	24:BA:874:G:N3	1.99	0.77
24:BA:865:C:N4	24:BA:909:A:H62	1.81	0.77
27:BD:105:ILE:HD12	27:BD:106:ILE:N	1.97	0.77
27:BD:199:ALA:O	27:BD:202:LYS:HB2	1.84	0.77
27:BD:8:PRO:HD2	27:BD:26:LYS:C	2.04	0.77
28:BE:125:GLY:H	28:BE:136:ARG:HA	1.49	0.77
28:BE:203:LYS:HD3	28:BE:203:LYS:O	1.83	0.77
28:BE:8:LYS:CG	40:BS:6:LEU:HD11	2.13	0.77
30:BG:39:ILE:HD12	30:BG:39:ILE:N	1.99	0.77
31:BH:107:VAL:HG22	31:BH:107:VAL:O	1.82	0.77
33:BL:75:SER:HA	33:BL:78:ILE:HD12	1.64	0.77
37:BP:131:ILE:O	37:BP:132:VAL:HG13	1.84	0.77
37:BP:55:VAL:CG2	37:BP:64:ILE:HD11	2.14	0.77
37:BP:77:LYS:HE2	37:BP:87:LYS:HG3	1.66	0.77
35:BN:122:LEU:HG	40:BS:71:GLY:CA	2.13	0.77
43:BV:59:VAL:HA	43:BV:63:ASP:CA	2.13	0.77
46:BY:43:GLU:O	46:BY:47:VAL:HG23	1.84	0.77
32:BK:97:ILE:O	32:BK:101:LEU:HD23	1.84	0.77
32:BK:82:ARG:O	32:BK:88:ILE:HG23	1.84	0.77
24:BA:1418:G:H1'	24:BA:1579:A:H61	1.50	0.77
1:AA:113:G:H2'	1:AA:114:U:C6	2.18	0.77
1:AA:1181:G:N7	1:AA:1182:G:N3	2.32	0.77
1:AA:1393:U:H4'	1:AA:1501:C:O2'	1.84	0.77
1:AA:714:G:H1'	1:AA:777:A:N7	2.00	0.77
1:AA:663:A:H5'	1:AA:836:G:OP1	1.83	0.77
1:AA:923:A:P	7:AH:21:ALA:HB2	2.25	0.77
3:AB:76:A:H4'	24:BA:2507:C:H4'	1.66	0.77
4:AE:17:PHE:HD1	4:AE:18:GLY:H	1.29	0.77
4:AE:213:LEU:O	4:AE:217:ARG:HD3	1.85	0.77
5:AF:34:LEU:HD23	5:AF:35:GLU:N	1.99	0.77
6:AG:78:LEU:HD13	6:AG:96:LEU:HB3	1.65	0.77
7:AH:118:ILE:C	7:AH:119:LEU:HD23	2.03	0.77
10:AK:123:GLU:CD	10:AK:124:ALA:N	2.38	0.77
10:AK:32:LYS:HG2	10:AK:33:GLU:N	1.97	0.77
11:AL:34:ASN:OD1	11:AL:43:ALA:HB2	1.84	0.77
12:AM:8:LEU:CD1	12:AM:16:LEU:HD13	2.15	0.77
15:AP:23:TYR:O	15:AP:67:GLU:N	2.17	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:AU:66:LEU:HD12	20:AU:67:ALA:H	1.49	0.77
50:B3:5:ILE:HG23	50:B3:57:GLU:CB	2.15	0.77
24:BA:1263:U:H4'	51:B4:10:LYS:HG3	1.63	0.77
51:B4:47:PRO:C	51:B4:58:LEU:HG	2.05	0.77
51:B4:51:TYR:CD1	51:B4:55:ARG:HD3	2.18	0.77
24:BA:1024:G:H22	24:BA:1139:G:H1	1.32	0.77
24:BA:1205:U:C2'	24:BA:1206:G:N7	2.47	0.77
24:BA:1567:A:H4'	24:BA:1568:G:N2	1.99	0.77
24:BA:1566:A:H2'	24:BA:1567:A:H5'	1.64	0.77
24:BA:1693:U:H5''	24:BA:1694:C:OP2	1.84	0.77
24:BA:2265:U:N3	24:BA:2266:A:N7	2.32	0.77
24:BA:2259:G:H5'	24:BA:2427:C:H3'	1.65	0.77
24:BA:248:G:C2	24:BA:2431:U:H5'	2.19	0.77
24:BA:243:U:H2'	24:BA:243:U:O2	1.84	0.77
24:BA:2553:G:N2	24:BA:2554:U:O2'	2.17	0.77
24:BA:261:G:O2'	24:BA:262:A:H5'	1.83	0.77
24:BA:2653:U:C4	24:BA:2654:A:C6	2.72	0.77
24:BA:13:A:N6	24:BA:525:U:C6	2.53	0.77
24:BA:740:U:O2'	24:BA:741:G:OP1	2.02	0.77
24:BA:1804:C:C4'	27:BD:250:TRP:HH2	1.95	0.77
28:BE:43:GLY:O	28:BE:45:THR:HG22	1.82	0.77
30:BG:107:LEU:HD12	30:BG:111:LEU:HD13	1.64	0.77
24:BA:2749:A:H4'	31:BH:62:LYS:CG	2.14	0.77
34:BM:103:VAL:CG2	34:BM:104:LYS:N	2.47	0.77
35:BN:7:TYR:HB3	35:BN:18:LYS:HZ1	1.45	0.77
24:BA:518:G:H4'	43:BV:18:ARG:NH1	1.98	0.77
45:BX:12:THR:HG21	45:BX:71:LYS:CA	2.14	0.77
32:BK:134:PRO:HB2	32:BK:135:GLU:OE2	1.85	0.77
1:AA:1005:A:H5''	1:AA:1006:C:H5	1.48	0.77
1:AA:1210:C:H4'	1:AA:1214:C:N3	1.98	0.77
1:AA:290:C:H6	1:AA:290:C:O5'	1.66	0.77
4:AE:173:ALA:HA	4:AE:176:GLU:HB2	1.66	0.77
5:AF:91:LEU:HD11	5:AF:99:VAL:N	1.99	0.77
6:AG:74:GLN:O	6:AG:77:ASN:HB2	1.84	0.77
8:AI:65:VAL:HG23	8:AI:66:GLU:O	1.84	0.77
15:AP:3:ARG:NH2	30:BG:141:PHE:H	1.81	0.77
18:AS:8:ARG:HD3	18:AS:15:PRO:HA	1.66	0.77
21:AV:36:ARG:O	21:AV:71:LEU:HB2	1.83	0.77
22:AW:63:ILE:O	22:AW:72:LEU:HD12	1.84	0.77
55:B8:15:LYS:HB2	55:B8:26:ILE:O	1.84	0.77
24:BA:1063:G:N2	24:BA:1076:C:C5	2.52	0.77
24:BA:2415:G:H5''	36:BO:61:ARG:HB2	1.65	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2419:U:H5'	52:B5:23:THR:HG21	1.65	0.77
24:BA:2459:A:H2'	24:BA:2460:U:C4'	2.14	0.77
24:BA:2503:A:H4'	24:BA:2504:U:OP1	1.84	0.77
24:BA:2764:A:N7	24:BA:2766:G:C6	2.52	0.77
24:BA:401:A:N6	24:BA:423:A:N1	2.31	0.77
24:BA:740:U:C1'	24:BA:1784:A:N7	2.47	0.77
27:BD:143:HIS:C	27:BD:145:VAL:H	1.86	0.77
27:BD:147:LEU:HA	27:BD:185:VAL:CG1	2.14	0.77
24:BA:1798:U:H5'	27:BD:257:LEU:CD1	2.14	0.77
29:BF:34:TRP:HD1	29:BF:38:ARG:HH11	1.32	0.77
36:BO:72:PRO:HG3	36:BO:110:TYR:CE2	2.18	0.77
36:BO:114:ILE:O	36:BO:114:ILE:HG22	1.84	0.77
36:BO:52:GLU:CA	36:BO:55:ARG:HG3	2.14	0.77
37:BP:118:LEU:CD1	37:BP:131:ILE:HG21	2.15	0.77
37:BP:37:LEU:HD11	37:BP:130:LYS:HB2	1.65	0.77
38:BQ:105:ARG:HG3	38:BQ:106:GLY:H	1.49	0.77
38:BQ:72:ASP:O	38:BQ:76:VAL:HG23	1.83	0.77
1:AA:1431:C:O3'	40:BS:110:ILE:HG23	1.83	0.77
42:BU:35:LEU:O	42:BU:61:VAL:HA	1.84	0.77
44:BW:70:LEU:HD23	44:BW:71:GLY:N	1.98	0.77
46:BY:31:ARG:N	46:BY:89:PHE:HE2	1.82	0.77
47:BZ:31:VAL:HG23	47:BZ:65:GLY:O	1.82	0.77
32:BK:127:VAL:HG22	32:BK:141:LYS:CA	2.13	0.77
1:AA:1089:G:H2'	1:AA:1090:U:H5'	1.65	0.77
1:AA:1453:G:H2'	1:AA:1454:G:O4'	1.85	0.77
1:AA:1488:G:C2	1:AA:1489:G:C8	2.73	0.77
1:AA:979:C:H2'	1:AA:980:C:H5'	1.65	0.77
1:AA:991:U:HO2'	1:AA:993:G:H8	1.30	0.77
11:AL:10:ARG:HA	11:AL:104:ARG:NE	1.98	0.77
1:AA:1372:U:OP2	11:AL:11:LYS:HE2	1.85	0.77
18:AS:56:ALA:CB	18:AS:79:VAL:HG11	2.13	0.77
19:AT:31:LEU:HG	19:AT:31:LEU:O	1.84	0.77
19:AT:28:PRO:HA	19:AT:35:VAL:HA	1.65	0.77
24:BA:1817:G:O2'	24:BA:1818:U:H5'	1.84	0.77
24:BA:2072:G:C6	24:BA:2073:C:N4	2.53	0.77
24:BA:245:G:OP1	36:BO:65:ARG:HD3	1.83	0.77
24:BA:2865:U:C4	24:BA:2866:U:H5	2.02	0.77
24:BA:452:G:H3'	24:BA:453:C:C5'	2.13	0.77
24:BA:861:A:H62	24:BA:916:G:H21	0.80	0.77
24:BA:866:A:N3	24:BA:866:A:H2'	1.98	0.77
24:BA:962:G:N2	24:BA:963:U:C2	2.52	0.77
28:BE:154:LYS:HD2	28:BE:154:LYS:C	2.05	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:BG:165:THR:HB	30:BG:168:GLU:OE1	1.84	0.77
31:BH:103:LEU:HD22	31:BH:115:VAL:HG21	1.66	0.77
31:BH:85:LYS:CE	31:BH:142:GLY:HA2	2.15	0.77
31:BH:35:VAL:CG2	31:BH:72:ILE:HG23	2.14	0.77
33:BL:7:VAL:HG11	33:BL:67:PHE:CZ	2.20	0.77
35:BN:6:THR:HA	35:BN:7:TYR:CD1	2.19	0.77
24:BA:662:G:H5'	36:BO:17:LYS:H	1.50	0.77
37:BP:23:GLY:N	37:BP:99:PRO:HG3	1.99	0.77
24:BA:2320:A:N6	39:BR:4:LEU:HD13	1.99	0.77
40:BS:27:THR:O	40:BS:52:ILE:HB	1.84	0.77
41:BT:47:TYR:OH	42:BU:77:ALA:N	2.17	0.77
24:BA:1224:G:H2'	42:BU:87:HIS:CE1	2.18	0.77
45:BX:1:MET:CG	45:BX:67:LEU:HD22	2.14	0.77
46:BY:65:GLN:O	46:BY:67:LEU:HG	1.84	0.77
47:BZ:32:ARG:O	47:BZ:35:ASN:HB2	1.84	0.77
32:BK:81:VAL:HB	32:BK:88:ILE:CG1	2.12	0.77
24:BA:41:C:O2'	24:BA:43:G:H5'	1.84	0.77
1:AA:1464:G:C2'	1:AA:1465:C:H5	1.97	0.77
1:AA:194:C:C2'	1:AA:195:A:H5''	2.14	0.77
1:AA:225:C:O2'	1:AA:226:G:H5'	1.85	0.77
1:AA:735:C:O2'	1:AA:736:C:H5'	1.84	0.77
3:AD:76:A:C4	24:BA:2432:A:O4'	2.38	0.77
4:AE:132:LYS:H	4:AE:132:LYS:HE2	1.48	0.77
5:AF:150:LYS:HB2	5:AF:173:VAL:CG2	2.14	0.77
5:AF:156:ARG:HD2	5:AF:163:ALA:HB2	1.63	0.77
5:AF:19:GLU:HB2	16:AQ:52:GLN:HG2	1.65	0.77
9:AJ:126:ASP:HA	9:AJ:131:LYS:CE	2.10	0.77
9:AJ:88:PRO:HG2	9:AJ:152:ALA:HB2	1.67	0.77
11:AL:3:GLN:HA	11:AL:20:ARG:HG2	1.65	0.77
11:AL:4:TYR:HE1	11:AL:59:PHE:CE2	2.02	0.77
13:AN:42:TRP:HE3	13:AN:43:SER:HA	1.48	0.77
15:AP:37:THR:HB	15:AP:59:TYR:CD2	2.20	0.77
17:AR:39:LEU:HD13	17:AR:56:LEU:HD13	1.65	0.77
17:AR:77:ARG:NH2	17:AR:78:TYR:HA	1.98	0.77
1:AA:761:G:C5'	19:AT:103:GLY:H	1.96	0.77
21:AV:38:SER:HB3	21:AV:71:LEU:CD1	2.15	0.77
53:B6:17:GLY:N	53:B6:21:ARG:HH22	1.81	0.77
24:BA:973:A:C1'	24:BA:1188:U:O4	2.32	0.77
24:BA:1275:A:N6	24:BA:1296:G:O4'	2.17	0.77
24:BA:1312:U:C5	44:BW:62:LYS:HG3	2.20	0.77
24:BA:1543:A:C3'	24:BA:1544:C:H4'	2.09	0.77
24:BA:1670:C:C2'	24:BA:1671:U:H5'	2.15	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2053:G:O2'	24:BA:2054:A:H5'	1.85	0.77
24:BA:2282:G:N2	24:BA:2425:A:C8	2.52	0.77
24:BA:2370:G:O2'	52:B5:45:LYS:HD3	1.84	0.77
24:BA:2064:C:C1'	24:BA:2450:A:N6	2.47	0.77
24:BA:2506:U:O2'	24:BA:2507:C:H5'	1.84	0.77
24:BA:30:G:OP1	41:BT:11:ARG:NH2	2.18	0.77
24:BA:319:C:H2'	24:BA:320:A:O4'	1.85	0.77
24:BA:388:G:H1'	24:BA:390:A:N6	2.00	0.77
24:BA:635:C:O2'	24:BA:636:G:H5'	1.85	0.77
24:BA:948:G:H1'	24:BA:984:A:N3	1.99	0.77
27:BD:9:TYR:CE2	27:BD:25:THR:HG21	2.18	0.77
29:BF:4:VAL:C	29:BF:20:LEU:HD13	2.03	0.77
24:BA:2749:A:H5'	31:BH:62:LYS:O	1.85	0.77
34:BM:57:ALA:O	34:BM:60:ILE:HG13	1.83	0.77
35:BN:23:ARG:CB	35:BN:23:ARG:HH11	1.95	0.77
39:BR:89:ARG:NH1	39:BR:91:PRO:HA	2.00	0.77
24:BA:578:A:H2	41:BT:34:LYS:HZ1	1.30	0.77
32:BK:76:THR:C	32:BK:77:LEU:HD23	2.04	0.77
24:BA:2134:A:H2'	24:BA:2135:A:O5'	1.85	0.77
1:AA:1259:C:O2	1:AA:1283:G:H1'	1.85	0.77
1:AA:1407:C:C2'	1:AA:1408:A:H5'	2.14	0.77
1:AA:1431:C:H2'	1:AA:1432:G:O4'	1.85	0.77
1:AA:599:C:H4'	10:AK:130:GLY:CA	2.08	0.77
1:AA:65:U:H4'	1:AA:66:G:H5''	1.65	0.77
1:AA:687:A:N6	1:AA:703:G:H1'	2.00	0.77
1:AA:768:A:H8	1:AA:768:A:O5'	1.67	0.77
1:AA:789:U:C2	1:AA:791:G:OP2	2.38	0.77
1:AA:842:C:H4'	1:AA:848:C:C2	2.20	0.77
6:AG:134:ASP:O	6:AG:136:PRO:HD3	1.85	0.77
8:AI:96:PRO:O	8:AI:97:PHE:HB2	1.84	0.77
9:AJ:106:GLN:HA	9:AJ:109:ASN:HD22	1.46	0.77
10:AK:45:ILE:HD12	10:AK:48:TYR:HB3	1.67	0.77
11:AL:49:PRO:HB3	11:AL:82:ALA:HB2	1.65	0.77
11:AL:53:VAL:HG21	11:AL:92:TYR:CE1	2.20	0.77
12:AM:34:VAL:HG12	12:AM:35:SER:N	1.99	0.77
12:AM:7:LYS:HG3	12:AM:71:LEU:CD1	2.15	0.77
13:AN:22:HIS:HB2	13:AN:85:ARG:HB2	1.66	0.77
16:AQ:60:SER:O	16:AQ:61:TRP:HB3	1.83	0.77
18:AS:6:LEU:HA	18:AS:18:ARG:O	1.84	0.77
19:AT:50:LYS:HD2	19:AT:51:TYR:CE1	2.19	0.77
19:AT:66:SER:HB2	19:AT:69:LYS:HZ3	1.48	0.77
19:AT:6:LEU:HD13	19:AT:23:VAL:HG21	1.67	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:AU:61:LYS:O	20:AU:65:ILE:HG12	1.85	0.77
21:AV:41:VAL:CB	21:AV:42:PRO:HD2	2.11	0.77
52:B5:24:GLU:HG2	54:B7:37:SER:CB	2.15	0.77
24:BA:1000:A:H61	24:BA:1155:A:H5'	1.49	0.77
24:BA:1700:A:C2'	24:BA:1701:A:H5'	2.15	0.77
24:BA:1742:C:H2'	24:BA:1743:G:C4'	2.15	0.77
24:BA:2238:G:O2'	24:BA:2239:G:H5''	1.85	0.77
24:BA:2665:A:C8	24:BA:2665:A:C3'	2.66	0.77
24:BA:2638:G:N7	24:BA:2775:A:C6	2.53	0.77
24:BA:2776:A:H4'	24:BA:2777:G:H5''	1.66	0.77
24:BA:311:A:N6	24:BA:329:G:H5'	2.00	0.77
24:BA:499:U:C5	24:BA:500:G:N3	2.53	0.77
24:BA:911:A:O4'	24:BA:2264:C:H4'	1.85	0.77
27:BD:117:VAL:HG11	27:BD:128:GLY:C	2.04	0.77
27:BD:63:ARG:HG3	27:BD:64:ILE:N	2.00	0.77
24:BA:2574:G:H1'	28:BE:143:ASN:ND2	1.99	0.77
30:BG:26:GLN:NE2	30:BG:31:VAL:CG2	2.47	0.77
35:BN:99:PHE:O	35:BN:118:ALA:HB1	1.85	0.77
35:BN:122:LEU:HG	40:BS:71:GLY:HA3	1.64	0.77
35:BN:24:VAL:CG2	35:BN:30:ALA:HA	2.14	0.77
37:BP:65:PHE:O	37:BP:66:ILE:HG13	1.83	0.77
39:BR:78:LEU:C	39:BR:78:LEU:HD22	2.03	0.77
40:BS:50:ILE:HD13	40:BS:76:PHE:HB3	1.66	0.77
41:BT:93:LYS:HB2	42:BU:10:LYS:HD2	1.66	0.77
42:BU:70:ILE:HG23	42:BU:90:PRO:HA	1.65	0.77
46:BY:105:VAL:HB	46:BY:140:ASP:OD2	1.84	0.77
26:BC:97:GLU:CG	26:BC:119:VAL:HB	2.14	0.77
26:BC:108:MET:HE3	26:BC:136:LEU:HD12	1.67	0.77
1:AA:1196:U:H5'	1:AA:1197:G:C5'	2.15	0.77
1:AA:1521:G:O2'	1:AA:1522:U:H5'	1.84	0.77
1:AA:49:U:N3	1:AA:364:A:N7	2.33	0.77
4:AE:136:VAL:O	4:AE:139:LYS:HG2	1.85	0.77
4:AE:25:ASN:HB3	4:AE:191:ASP:HA	1.67	0.77
4:AE:69:LEU:HD22	4:AE:91:PRO:C	2.05	0.77
5:AF:150:LYS:HA	5:AF:169:ALA:CB	2.15	0.77
5:AF:38:ARG:CB	5:AF:94:LEU:HD11	2.15	0.77
8:AI:76:ALA:HA	8:AI:79:LEU:CD1	2.15	0.77
12:AM:87:THR:O	12:AM:88:LEU:HD23	1.84	0.77
17:AR:10:LYS:O	17:AR:13:GLN:HB2	1.85	0.77
21:AV:16:LEU:O	21:AV:19:VAL:HG12	1.84	0.77
21:AV:25:LYS:C	21:AV:25:LYS:HD2	2.06	0.77
21:AV:62:ILE:HD11	21:AV:67:VAL:CA	2.14	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:B5:15:GLU:OE2	52:B5:21:TYR:HB3	1.84	0.77
24:BA:686:G:H8	53:B6:7:PRO:HA	1.49	0.77
24:BA:1803:A:H4'	27:BD:257:LEU:CD1	2.15	0.77
24:BA:1913:A:C1'	24:BA:1918:A:N6	2.48	0.77
24:BA:2268:A:H5'	24:BA:2269:A:OP2	1.85	0.77
24:BA:2551:C:H2'	24:BA:2552:U:C6	2.20	0.77
24:BA:292:C:H3'	24:BA:293:U:C4	2.20	0.77
24:BA:312:G:O4'	24:BA:312:G:OP1	2.02	0.77
24:BA:663:G:C4'	36:BO:18:ARG:HE	1.98	0.77
24:BA:946:G:H1	24:BA:972:G:H21	1.33	0.77
27:BD:145:VAL:O	27:BD:155:LEU:HB3	1.84	0.77
27:BD:243:GLY:O	27:BD:244:ARG:HB2	1.85	0.77
27:BD:34:VAL:HG22	27:BD:104:TYR:OH	1.85	0.77
27:BD:5:LYS:HZ3	27:BD:31:LYS:HZ1	0.78	0.77
28:BE:58:ARG:HG2	28:BE:63:LEU:HD23	1.66	0.77
31:BH:149:ARG:HG2	31:BH:153:LYS:HD2	1.65	0.77
32:BK:32:PRO:HG2	32:BK:33:ARG:N	1.99	0.77
34:BM:55:VAL:HG21	34:BM:127:ASP:N	1.99	0.77
35:BN:10:VAL:CG1	35:BN:11:ALA:H	1.88	0.77
35:BN:62:VAL:O	35:BN:82:ASN:O	2.03	0.77
35:BN:68:GLU:OE1	35:BN:70:LYS:HE3	1.85	0.77
41:BT:25:TRP:HE3	41:BT:26:GLY:N	1.83	0.77
41:BT:77:SER:O	41:BT:81:HIS:HB2	1.85	0.77
46:BY:110:GLY:CA	46:BY:144:LEU:HB2	2.14	0.77
1:AA:1075:C:H4'	1:AA:1101:A:H62	1.50	0.77
1:AA:110:C:H2'	1:AA:111:G:O4'	1.85	0.77
1:AA:1237:C:O2'	1:AA:1300:G:N2	2.17	0.77
1:AA:1289:A:N6	1:AA:1371:G:O2'	2.18	0.77
1:AA:1516:G:N3	1:AA:1518:A:OP2	2.18	0.77
1:AA:665:A:C2'	1:AA:725:G:N2	2.46	0.77
1:AA:737:A:OP1	8:AI:91:VAL:HA	1.84	0.77
3:AB:52:G:HO2'	24:BA:2470:G:C3'	1.97	0.77
6:AG:203:VAL:O	6:AG:206:PHE:HB3	1.85	0.77
11:AL:48:GLU:OE1	11:AL:48:GLU:HA	1.85	0.77
15:AP:10:PRO:CB	15:AP:18:ALA:HA	2.14	0.77
18:AS:19:ILE:HG13	18:AS:38:TYR:HA	1.66	0.77
19:AT:40:LYS:HB3	19:AT:40:LYS:HZ3	1.48	0.77
19:AT:91:ARG:HA	19:AT:94:ASN:ND2	1.99	0.77
24:BA:2046:G:OP1	51:B4:18:ALA:HB1	1.85	0.77
51:B4:36:CYS:HB2	51:B4:37:LYS:HD2	1.65	0.77
24:BA:1203:G:H1	24:BA:1241:A:H1'	1.50	0.77
24:BA:1368:G:O2'	24:BA:1369:G:H5'	1.83	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:144:C:H2'	24:BA:145:G:O4'	1.85	0.77
24:BA:1517:G:N2	24:BA:1518:C:C2	2.53	0.77
24:BA:1687:G:C6	24:BA:1688:U:C5	2.73	0.77
24:BA:1954:G:H8	24:BA:1954:G:OP2	1.65	0.77
24:BA:2011:U:H2'	24:BA:2012:G:C8	2.20	0.77
24:BA:2023:G:H5''	24:BA:2617:C:O2'	1.84	0.77
24:BA:2888:C:H2'	24:BA:2889:C:H6	1.50	0.77
24:BA:426:C:H2'	24:BA:427:U:C6	2.20	0.77
24:BA:755:C:H2'	24:BA:756:C:H6	1.50	0.77
24:BA:1258:C:C5'	29:BF:84:VAL:HG21	2.14	0.77
30:BG:144:ILE:HG23	30:BG:147:ASP:OD2	1.85	0.77
30:BG:17:PRO:O	30:BG:20:ILE:HB	1.85	0.77
30:BG:49:ASP:O	30:BG:53:LEU:CB	2.33	0.77
31:BH:85:LYS:NZ	31:BH:142:GLY:HA2	2.00	0.77
32:BK:5:LEU:HD11	32:BK:17:GLN:CB	2.14	0.77
36:BO:28:GLY:O	36:BO:29:LYS:HG3	1.85	0.77
38:BQ:38:VAL:CB	38:BQ:39:PRO:HD3	2.14	0.77
38:BQ:86:ARG:HH11	38:BQ:86:ARG:CB	1.94	0.77
39:BR:23:ARG:HH11	39:BR:42:ASP:HB3	1.48	0.77
39:BR:40:ILE:HG13	39:BR:47:THR:HG23	1.66	0.77
40:BS:26:ASP:HA	40:BS:100:TYR:CZ	2.20	0.77
35:BN:121:VAL:HG13	40:BS:68:TYR:OH	1.82	0.77
41:BT:57:PHE:CD2	41:BT:60:LEU:HD12	2.19	0.77
42:BU:25:LEU:HD23	42:BU:29:PRO:HD3	1.66	0.77
42:BU:36:PRO:N	42:BU:61:VAL:HG22	2.00	0.77
43:BV:24:ILE:HD13	43:BV:36:LEU:HD13	1.67	0.77
43:BV:36:LEU:HD11	43:BV:47:VAL:CG2	2.15	0.77
43:BV:76:VAL:HG22	43:BV:77:ASP:N	1.99	0.77
45:BX:13:VAL:HG13	45:BX:70:SER:HB3	1.65	0.77
32:BK:113:ARG:CZ	32:BK:132:PRO:HB3	2.14	0.77
26:BC:87:GLU:HG3	26:BC:94:VAL:CG2	2.15	0.77
24:BA:1483:G:H1'	24:BA:1507:A:C2	2.20	0.77
1:AA:1267:C:O2	1:AA:1267:C:H2'	1.84	0.77
1:AA:570:G:C2	1:AA:873:A:N1	2.53	0.77
3:AB:60:U:H5''	3:AB:61:C:OP2	1.85	0.77
4:AE:144:ARG:HA	4:AE:147:LYS:CB	2.15	0.77
5:AF:122:GLU:CA	5:AF:125:GLU:HG2	2.15	0.77
6:AG:135:LEU:HD12	6:AG:138:TYR:HB2	1.65	0.77
7:AH:79:GLU:HG3	7:AH:93:PRO:HD2	1.66	0.77
11:AL:16:ARG:HE	11:AL:18:PHE:HZ	1.33	0.77
15:AP:3:ARG:CZ	30:BG:140:ILE:HB	2.15	0.77
17:AR:26:GLU:O	17:AR:29:VAL:HB	1.84	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AW:33:ILE:HD13	22:AW:63:ILE:CA	2.13	0.77
49:B2:26:LEU:HB3	49:B2:35:ARG:HH11	1.50	0.77
24:BA:2815:C:H4'	51:B4:42:PRO:HG3	1.65	0.77
53:B6:43:THR:O	53:B6:46:VAL:HB	1.85	0.77
24:BA:109:G:N2	24:BA:110:G:H1'	2.00	0.77
24:BA:1123:C:H2'	24:BA:1124:C:C6	2.20	0.77
24:BA:1188:U:O2'	24:BA:1189:A:H5'	1.84	0.77
24:BA:1242:A:C2	36:BO:6:LEU:HD21	2.20	0.77
24:BA:1356:G:O2'	24:BA:1357:U:H5'	1.85	0.77
24:BA:1427:A:H1'	24:BA:1428:C:C5	2.20	0.77
24:BA:1451:C:H2'	24:BA:1457:A:N6	1.99	0.77
24:BA:1602:U:OP2	24:BA:1602:U:N3	2.18	0.77
24:BA:1657:C:OP1	28:BE:136:ARG:NH2	2.18	0.77
24:BA:2096:U:H2'	24:BA:2097:C:C5	2.19	0.77
24:BA:2455:G:H2'	24:BA:2456:C:H6	1.49	0.77
24:BA:242:G:H2'	24:BA:254:G:O6	1.85	0.77
24:BA:2569:G:C2	24:BA:2570:G:C8	2.73	0.77
24:BA:2603:G:OP2	47:BZ:1:MET:HB2	1.84	0.77
24:BA:1638:C:H1'	24:BA:2698:U:O2'	1.85	0.77
24:BA:2700:C:C2'	24:BA:2701:C:H5''	2.14	0.77
24:BA:2777:G:H4'	24:BA:2778:A:H5'	1.66	0.77
24:BA:360:G:H2'	24:BA:361:G:C5'	2.14	0.77
24:BA:49:A:H1'	24:BA:118:A:H61	1.50	0.77
24:BA:64:A:C5'	44:BW:73:ARG:HA	2.15	0.77
24:BA:800:A:O2'	24:BA:801:G:H5''	1.85	0.77
24:BA:861:A:H2'	24:BA:862:G:H5'	1.67	0.77
24:BA:917:A:C3'	24:BA:917:A:C8	2.63	0.77
24:BA:847:U:N3	24:BA:933:A:H2	1.82	0.77
28:BE:136:ARG:HD3	28:BE:136:ARG:O	1.84	0.77
28:BE:52:LEU:HA	28:BE:74:PRO:CA	2.12	0.77
34:BM:97:ARG:O	34:BM:100:GLU:N	2.16	0.77
34:BM:115:ARG:HA	34:BM:118:LYS:CD	2.15	0.77
24:BA:623:G:OP2	36:BO:105:LEU:HD21	1.85	0.77
36:BO:16:ARG:HG2	36:BO:19:VAL:HG13	1.67	0.77
39:BR:62:LYS:O	39:BR:65:VAL:N	2.17	0.77
35:BN:122:LEU:CG	40:BS:71:GLY:HA3	2.15	0.77
46:BY:45:ASP:O	46:BY:46:LYS:C	2.22	0.77
1:AA:20:U:H2'	1:AA:21:G:O4'	1.84	0.76
4:AE:67:THR:HB	4:AE:155:LEU:HD21	1.65	0.76
4:AE:19:HIS:HA	4:AE:39:ILE:HD11	1.67	0.76
4:AE:15:VAL:HG11	4:AE:209:ARG:HB3	1.65	0.76
5:AF:50:ALA:O	5:AF:72:LYS:HD2	1.84	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:154:ASN:ND2	6:AG:155:LEU:HD22	2.00	0.76
6:AG:83:SER:HA	6:AG:89:THR:OG1	1.85	0.76
7:AH:74:GLY:C	7:AH:115:VAL:HG12	2.04	0.76
9:AJ:65:ALA:O	9:AJ:69:VAL:HG23	1.85	0.76
9:AJ:76:ARG:NH1	9:AJ:89:MET:HG3	1.99	0.76
11:AL:16:ARG:HG2	11:AL:18:PHE:CZ	2.20	0.76
11:AL:45:ALA:O	11:AL:78:LYS:HB2	1.85	0.76
14:AO:85:ILE:HD11	14:AO:98:TYR:HB2	1.63	0.76
15:AP:40:ASN:OD1	15:AP:42:ALA:HB3	1.84	0.76
17:AR:49:ASP:OD2	17:AR:52:SER:HB2	1.85	0.76
1:AA:392:G:H5'	18:AS:12:LYS:NZ	1.99	0.76
1:AA:1320:C:C4	21:AV:72:GLY:HA3	2.19	0.76
54:B7:12:LYS:HG2	54:B7:13:ARG:HH12	1.50	0.76
24:BA:666:G:O4'	54:B7:3:LYS:HE3	1.85	0.76
54:B7:30:ARG:HD2	54:B7:44:LYS:HD2	1.65	0.76
24:BA:1058:G:H21	33:BL:116:ASN:HD21	1.31	0.76
24:BA:1178:C:C2	24:BA:1179:C:C5	2.73	0.76
24:BA:1252:G:H8	24:BA:1253:A:C1'	1.93	0.76
24:BA:1420:U:H1'	24:BA:1421:G:N7	2.00	0.76
24:BA:1556:C:H2'	24:BA:1557:C:C6	2.21	0.76
24:BA:1935:G:H2'	24:BA:1962:C:N4	2.00	0.76
24:BA:2543:G:N3	24:BA:2765:A:C2	2.52	0.76
24:BA:563:G:H21	41:BT:34:LYS:HE2	1.50	0.76
24:BA:902:C:H2'	24:BA:903:C:H6	1.49	0.76
25:BB:73:A:N6	25:BB:104:A:H1'	2.00	0.76
25:BB:87:G:H8	25:BB:87:G:OP2	1.68	0.76
27:BD:105:ILE:HG13	27:BD:106:ILE:CG1	2.12	0.76
27:BD:18:VAL:C	27:BD:20:ASP:H	1.86	0.76
27:BD:234:GLY:H	27:BD:241:PRO:CG	1.98	0.76
24:BA:1658:C:OP1	28:BE:134:ILE:HD12	1.85	0.76
30:BG:92:VAL:CG1	30:BG:94:LEU:HD22	2.15	0.76
31:BH:8:PRO:HA	31:BH:51:ARG:NH1	2.01	0.76
24:BA:2748:A:O2'	31:BH:66:GLY:HA3	1.85	0.76
35:BN:70:LYS:HE2	35:BN:104:ARG:HG3	1.67	0.76
36:BO:45:LEU:CD2	36:BO:46:LYS:HG3	2.13	0.76
37:BP:122:GLY:HA2	37:BP:125:LEU:CG	2.15	0.76
46:BY:157:LEU:CD2	46:BY:161:VAL:HA	2.15	0.76
26:BC:19:ILE:HG23	26:BC:223:ARG:HG2	1.66	0.76
33:BL:98:ARG:CZ	33:BL:139:VAL:HG21	2.14	0.76
4:AE:139:LYS:HG3	4:AE:140:HIS:H	1.50	0.76
4:AE:32:ILE:HD11	4:AE:40:HIS:HD2	1.50	0.76
4:AE:82:ARG:HA	4:AE:92:TYR:HE1	1.47	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:63:LYS:HA	6:AG:66:ARG:HD2	1.67	0.76
9:AJ:40:ALA:O	9:AJ:43:PHE:HB3	1.86	0.76
9:AJ:51:GLN:HE22	9:AJ:58:PRO:HG3	1.48	0.76
10:AK:24:THR:O	10:AK:60:ARG:HA	1.84	0.76
13:AN:87:THR:HG22	13:AN:91:ARG:HH22	1.51	0.76
17:AR:7:GLU:HB3	17:AR:10:LYS:HE3	1.66	0.76
52:B5:27:LYS:HG2	52:B5:29:ASN:HD21	1.50	0.76
52:B5:35:GLU:OE2	52:B5:52:VAL:HG13	1.84	0.76
24:BA:1007:C:H2'	24:BA:1008:C:C5	2.21	0.76
24:BA:1021:A:H2'	24:BA:1022:G:OP1	1.85	0.76
24:BA:1313:U:H2'	24:BA:1314:C:C6	2.20	0.76
24:BA:1853:A:H2'	24:BA:1854:A:H8	1.49	0.76
24:BA:2449:U:OP1	24:BA:2449:U:C6	2.37	0.76
24:BA:2791:C:H2'	24:BA:2792:G:C8	2.20	0.76
24:BA:527:C:OP1	24:BA:527:C:H4'	1.85	0.76
24:BA:548:A:N6	24:BA:549:G:H21	1.83	0.76
24:BA:786:C:HO2'	24:BA:787:U:H5'	1.48	0.76
24:BA:918:A:C8	25:BB:80:U:H4'	2.21	0.76
25:BB:16:G:H2'	25:BB:17:C:H6	1.50	0.76
28:BE:45:THR:HB	28:BE:81:ILE:CA	2.05	0.76
30:BG:12:TYR:HA	30:BG:15:VAL:HG22	1.65	0.76
30:BG:39:ILE:HD13	30:BG:92:VAL:HG12	1.67	0.76
31:BH:128:PRO:O	31:BH:131:VAL:HB	1.85	0.76
31:BH:28:GLY:CA	31:BH:79:VAL:HB	2.16	0.76
34:BM:66:LYS:HA	34:BM:87:LEU:CD1	2.13	0.76
24:BA:942:G:C3'	36:BO:32:THR:HG22	2.15	0.76
39:BR:70:GLY:HA2	39:BR:73:LEU:HD22	1.67	0.76
40:BS:50:ILE:CD1	40:BS:76:PHE:HB3	2.15	0.76
41:BT:88:ILE:HG12	42:BU:52:VAL:HG13	1.67	0.76
43:BV:75:TYR:O	43:BV:104:THR:HG23	1.85	0.76
25:BB:75:G:H4'	46:BY:36:LYS:CE	2.15	0.76
46:BY:78:LYS:HG3	46:BY:79:ARG:H	1.48	0.76
1:AA:1202:G:H2'	1:AA:1203:C:H6	1.50	0.76
3:AD:37:A:H2'	3:AD:38:A:O4'	1.85	0.76
4:AE:71:VAL:O	4:AE:164:VAL:HG23	1.85	0.76
5:AF:142:MET:HB3	5:AF:170:GLN:NE2	2.00	0.76
5:AF:172:ARG:HH22	5:AF:174:PRO:HG3	1.49	0.76
5:AF:88:ARG:HB2	5:AF:101:LEU:HB2	1.67	0.76
6:AG:145:GLU:O	6:AG:146:ILE:HG23	1.85	0.76
1:AA:540:G:H21	6:AG:42:GLN:NE2	1.81	0.76
7:AH:17:ALA:HA	7:AH:26:PHE:HB3	1.67	0.76
8:AI:11:ASN:HD22	8:AI:86:ARG:NH2	1.83	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AJ:69:VAL:CG2	9:AJ:135:VAL:HG22	2.15	0.76
3:AD:37:A:N6	9:AJ:79:ARG:HH22	1.84	0.76
11:AL:108:VAL:O	11:AL:110:GLU:N	2.17	0.76
12:AM:23:ILE:HG22	12:AM:72:VAL:HG11	1.67	0.76
13:AN:48:ILE:HG23	13:AN:63:LEU:HD13	1.66	0.76
17:AR:36:ILE:HD11	17:AR:60:VAL:HG22	1.66	0.76
18:AS:35:LYS:HD2	18:AS:36:ILE:N	2.00	0.76
19:AT:21:VAL:HG23	19:AT:42:TYR:O	1.85	0.76
24:BA:1066:U:O2'	24:BA:1068:G:H3'	1.84	0.76
24:BA:1083:U:H1'	24:BA:1085:A:C5	2.21	0.76
24:BA:973:A:O4'	24:BA:1188:U:C4	2.38	0.76
24:BA:1388:G:H2'	24:BA:1389:G:H8	1.48	0.76
24:BA:1944:U:C1'	24:BA:1955:U:H6	1.98	0.76
24:BA:1935:G:C3'	24:BA:1962:C:H42	1.98	0.76
24:BA:221:A:O2'	24:BA:222:A:OP2	2.02	0.76
24:BA:2286:A:C4'	24:BA:2287:A:H1'	2.14	0.76
24:BA:2312:U:H5'	30:BG:43:LEU:HD21	1.65	0.76
24:BA:2334:G:O2'	39:BR:15:ARG:HG3	1.84	0.76
24:BA:247:G:H4'	24:BA:386:G:N3	2.00	0.76
24:BA:2586:C:H2'	24:BA:2587:A:H8	1.50	0.76
24:BA:2756:U:C4	24:BA:2758:A:N6	2.54	0.76
24:BA:2784:C:H4'	28:BE:41:LYS:HE2	1.65	0.76
24:BA:530:G:H22	24:BA:2021:C:C3'	1.96	0.76
24:BA:531:C:H5'	24:BA:532:A:C2	2.20	0.76
24:BA:574:C:N1	24:BA:2055:C:H5	1.82	0.76
24:BA:730:C:H2'	24:BA:731:C:C6	2.20	0.76
24:BA:752:A:H62	24:BA:1781:C:C1'	1.98	0.76
24:BA:997:G:O2'	24:BA:998:C:H5'	1.85	0.76
27:BD:136:ILE:HD12	27:BD:173:VAL:HG21	1.67	0.76
28:BE:114:ALA:CB	28:BE:118:LYS:HB2	2.14	0.76
30:BG:141:PHE:CE2	30:BG:145:THR:HA	2.19	0.76
30:BG:55:LYS:HG3	30:BG:148:MET:HB2	1.68	0.76
30:BG:78:SER:HB2	30:BG:82:LEU:HB2	1.65	0.76
31:BH:45:VAL:HG13	31:BH:50:VAL:HG22	1.67	0.76
32:BK:40:THR:O	32:BK:44:LEU:HG	1.85	0.76
34:BM:117:PHE:HA	34:BM:120:LEU:HB3	1.68	0.76
37:BP:96:VAL:HG12	37:BP:98:LYS:HZ3	1.48	0.76
39:BR:49:VAL:CG1	39:BR:80:LEU:HG	2.14	0.76
42:BU:40:LEU:CD1	42:BU:55:ALA:HA	2.15	0.76
45:BX:14:LEU:CD2	45:BX:19:LYS:HB2	2.15	0.76
32:BK:71:ILE:O	32:BK:74:ASN:HB3	1.85	0.76
26:BC:183:GLU:O	26:BC:186:ALA:HB3	1.85	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:342:C:H2'	1:AA:343:U:C6	2.21	0.76
1:AA:961:U:H1'	1:AA:1201:A:H61	1.49	0.76
1:AA:1262:C:H2'	1:AA:1263:C:C6	2.19	0.76
1:AA:186(B):C:O2'	1:AA:186(C):G:H5'	1.85	0.76
1:AA:236:G:H5'	19:AT:42:TYR:OH	1.86	0.76
1:AA:397:A:O2'	1:AA:398:C:H3'	1.84	0.76
3:AC:2:C:H5'	47:BZ:7:LEU:O	1.85	0.76
3:AC:67:C:H2'	3:AC:68:C:H6	1.51	0.76
4:AE:71:VAL:CG2	4:AE:93:VAL:HB	2.14	0.76
5:AF:22:TRP:CB	5:AF:59:ARG:HB3	2.16	0.76
6:AG:143:GLY:HA2	6:AG:185:PHE:CB	2.14	0.76
9:AJ:45:ASP:O	9:AJ:48:LYS:HB2	1.85	0.76
14:AO:113:ARG:NH2	14:AO:115:LYS:O	2.18	0.76
14:AO:32:PHE:CB	14:AO:84:LEU:HD21	2.16	0.76
19:AT:59:ILE:HD12	19:AT:60:ILE:N	1.98	0.76
20:AU:37:VAL:HG12	20:AU:41:LYS:NZ	2.00	0.76
54:B7:8:LYS:HA	54:B7:11:LYS:HD2	1.67	0.76
24:BA:1023:U:H2'	24:BA:1024:G:C5'	2.16	0.76
24:BA:1033:U:C5'	55:B8:16:VAL:HG21	2.16	0.76
24:BA:1315:C:H2'	24:BA:1316:U:H6	1.50	0.76
24:BA:1342:A:H2'	24:BA:1345:C:N4	1.99	0.76
24:BA:1695:G:C2	24:BA:1696:G:O4'	2.38	0.76
24:BA:1835:G:H2'	24:BA:1836:C:H5'	1.67	0.76
24:BA:1854:A:C2	24:BA:1855:G:H1'	2.21	0.76
24:BA:2199:A:C8	24:BA:2199:A:O5'	2.38	0.76
24:BA:2516:G:C4	24:BA:2569:G:N2	2.52	0.76
24:BA:2658:C:H2'	24:BA:2659:G:H5'	0.86	0.76
24:BA:270(X):G:N1	24:BA:270(Y):G:H1'	2.00	0.76
24:BA:500:G:H2'	24:BA:501:A:H5''	1.67	0.76
24:BA:514:A:C2	24:BA:515:A:C4	2.73	0.76
24:BA:950:G:H2'	24:BA:951:C:C6	2.21	0.76
27:BD:81:ALA:HA	27:BD:113:VAL:HG22	1.68	0.76
27:BD:76:PRO:HA	27:BD:118:VAL:HG22	1.65	0.76
28:BE:171:GLU:OE1	28:BE:172:VAL:N	2.18	0.76
28:BE:32:PRO:CB	28:BE:35:GLN:HE22	1.98	0.76
29:BF:104:LYS:O	29:BF:108:LYS:HE3	1.85	0.76
34:BM:22:THR:HG23	34:BM:25:ARG:NH1	2.01	0.76
37:BP:137:TYR:CE2	46:BY:124:ILE:CD1	2.68	0.76
41:BT:108:GLU:O	41:BT:111:GLU:HG2	1.86	0.76
41:BT:13:LYS:HA	41:BT:16:LYS:NZ	2.01	0.76
43:BV:82:LEU:O	43:BV:97:LYS:HA	1.85	0.76
46:BY:20:ARG:HB2	46:BY:20:ARG:CZ	2.15	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BK:79:ILE:N	32:BK:79:ILE:HD12	2.00	0.76
26:BC:122:ALA:CB	26:BC:126:LYS:HD3	2.14	0.76
26:BC:162:GLU:HG2	26:BC:163:PHE:N	1.98	0.76
26:BC:81:GLU:O	26:BC:84:LYS:HB2	1.84	0.76
24:BA:1511:A:H2'	24:BA:1512:G:H5''	1.68	0.76
24:BA:2187:G:H2'	24:BA:2188:C:H6	1.47	0.76
1:AA:960:U:N3	1:AA:1225:A:N7	2.33	0.76
1:AA:1239:A:H2'	1:AA:1239:A:N3	1.99	0.76
1:AA:1403:C:H1'	1:AA:1500:A:C6	2.20	0.76
1:AA:544:G:H2'	1:AA:545:C:C6	2.20	0.76
7:AH:79:GLU:HG3	7:AH:93:PRO:CD	2.16	0.76
11:AL:112:LYS:HG3	11:AL:117:HIS:HA	1.68	0.76
11:AL:49:PRO:HG3	11:AL:78:LYS:O	1.86	0.76
11:AL:66:ARG:HG2	11:AL:67:GLY:H	1.49	0.76
15:AP:90:LEU:HA	15:AP:93:ARG:HB2	1.67	0.76
54:B7:22:VAL:O	54:B7:48:PHE:CG	2.39	0.76
24:BA:1742:C:H3'	24:BA:1743:G:C5'	2.14	0.76
24:BA:1815:A:H1'	24:BA:1817:G:C4	2.20	0.76
24:BA:1863:G:H2'	24:BA:1864:U:H6	1.48	0.76
24:BA:2059:A:N1	24:BA:2503:A:N6	2.34	0.76
24:BA:2247:A:O2'	24:BA:2248:C:H5'	1.84	0.76
24:BA:2525:G:H5'	24:BA:2526:G:OP2	1.84	0.76
24:BA:2541:A:H2	24:BA:2765:A:H61	1.33	0.76
24:BA:2756:U:C2	24:BA:2758:A:N6	2.54	0.76
24:BA:311:A:H1'	24:BA:332:A:C5	2.21	0.76
24:BA:446:G:N7	41:BT:3:ARG:NH2	2.33	0.76
24:BA:558:G:C2	24:BA:559:G:N7	2.54	0.76
24:BA:567:A:C2	24:BA:568:U:H1'	2.21	0.76
27:BD:175:LEU:HD13	27:BD:175:LEU:C	2.06	0.76
24:BA:1819:A:H5''	27:BD:178:PRO:CB	2.15	0.76
27:BD:229:VAL:HG22	27:BD:230:ASP:OD1	1.85	0.76
28:BE:102:VAL:HA	28:BE:202:LYS:NZ	2.01	0.76
28:BE:98:PRO:HD3	28:BE:175:VAL:HG11	1.65	0.76
28:BE:92:THR:C	28:BE:94:GLU:H	1.88	0.76
29:BF:93:LYS:HE2	29:BF:95:ARG:HG2	1.65	0.76
33:BL:78:ILE:CG2	33:BL:136:VAL:HG11	2.16	0.76
33:BL:23:VAL:CG1	33:BL:34:ILE:HA	2.15	0.76
34:BM:109:LYS:CG	34:BM:112:LEU:HB2	2.16	0.76
34:BM:51:PHE:CG	34:BM:119:ARG:HB2	2.21	0.76
35:BN:11:ALA:N	35:BN:17:ARG:HG3	2.01	0.76
35:BN:18:LYS:HB3	35:BN:45:GLU:CG	2.14	0.76
35:BN:77:ILE:O	40:BS:75:ILE:HG13	1.85	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BO:29:LYS:O	36:BO:30:THR:HG23	1.83	0.76
39:BR:7:TYR:HB3	39:BR:11:LYS:NZ	2.01	0.76
40:BS:103:ARG:O	40:BS:105:LEU:N	2.19	0.76
40:BS:7:ILE:O	40:BS:11:GLU:OE1	2.02	0.76
42:BU:52:VAL:HG12	42:BU:53:GLU:N	2.00	0.76
42:BU:5:VAL:HG11	42:BU:37:VAL:CG1	2.15	0.76
47:BZ:41:ARG:HB3	47:BZ:41:ARG:NH1	2.01	0.76
32:BK:87:LYS:CE	32:BK:121:LYS:HG3	2.13	0.76
26:BC:131:LEU:HB3	26:BC:136:LEU:C	2.06	0.76
26:BC:171:ILE:HD13	26:BC:192:PHE:CZ	2.21	0.76
26:BC:86:ALA:HB2	26:BC:149:ILE:HG23	1.67	0.76
1:AA:865:A:H5'	1:AA:1078:U:O4	1.86	0.76
1:AA:124:G:H2'	1:AA:125:U:O4'	1.85	0.76
1:AA:1405:G:H21	1:AA:1517:G:H22	0.77	0.76
1:AA:1416:G:H2'	1:AA:1417:G:C8	2.21	0.76
1:AA:1408:A:N1	1:AA:1494:G:H1'	2.01	0.76
1:AA:153:C:H2'	1:AA:154:C:H6	1.50	0.76
1:AA:435:C:O2'	1:AA:436:C:H5'	1.86	0.76
1:AA:43:C:H2'	1:AA:44:G:H8	1.50	0.76
1:AA:778:G:H2'	1:AA:779:C:H6	1.49	0.76
1:AA:84:U:H2'	1:AA:85:U:O4'	1.85	0.76
4:AE:212:GLN:O	4:AE:216:SER:HB2	1.85	0.76
4:AE:73:THR:HG21	4:AE:95:GLN:O	1.84	0.76
5:AF:108:ASN:HD22	5:AF:111:LEU:CD1	1.99	0.76
5:AF:11:ARG:HG3	5:AF:16:ARG:HE	1.50	0.76
5:AF:190:ARG:CA	5:AF:190:ARG:HE	1.99	0.76
6:AG:18:LYS:CG	6:AG:33:MET:HB3	2.16	0.76
8:AI:68:PRO:HB2	8:AI:71:ARG:CG	2.15	0.76
13:AN:19:ALA:HB2	13:AN:80:VAL:HG21	1.68	0.76
14:AO:25:PRO:C	14:AO:27:LEU:H	1.84	0.76
14:AO:85:ILE:HG23	14:AO:85:ILE:O	1.84	0.76
19:AT:10:VAL:CG1	19:AT:54:GLY:H	1.99	0.76
48:B1:36:ILE:HG23	48:B1:37:GLY:H	1.49	0.76
51:B4:13:LYS:HD3	51:B4:13:LYS:N	1.96	0.76
52:B5:15:GLU:CD	52:B5:21:TYR:HB3	2.06	0.76
54:B7:16:ILE:HG23	54:B7:22:VAL:CG2	2.15	0.76
24:BA:1204:A:C4'	24:BA:1204:A:OP2	2.34	0.76
24:BA:1345:C:O2'	24:BA:1346:G:H5'	1.86	0.76
24:BA:1731:G:N2	24:BA:1733:G:N2	2.34	0.76
24:BA:2318:G:O5'	24:BA:2318:G:H8	1.67	0.76
24:BA:2434:A:C2'	24:BA:2435:A:H5''	2.16	0.76
24:BA:2513:G:H2'	24:BA:2514:U:C6	2.20	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2582:G:H5'	24:BA:2582:G:C8	2.20	0.76
24:BA:2653:U:H2'	24:BA:2654:A:C8	2.20	0.76
24:BA:2845:G:H5''	40:BS:57:PHE:O	1.86	0.76
24:BA:39:C:H2'	24:BA:40:C:H6	1.50	0.76
24:BA:860:U:H2'	24:BA:861:A:H5'	1.66	0.76
27:BD:24:ILE:HG21	27:BD:26:LYS:HE2	1.67	0.76
28:BE:25:VAL:HG23	28:BE:182:LEU:O	1.85	0.76
29:BF:201:VAL:HA	29:BF:204:ASN:ND2	2.00	0.76
30:BG:167:GLU:O	30:BG:170:ARG:HB3	1.85	0.76
31:BH:76:VAL:HG23	31:BH:77:LYS:N	2.01	0.76
34:BM:97:ARG:O	34:BM:100:GLU:HB2	1.85	0.76
24:BA:2415:G:OP1	36:BO:61:ARG:NH2	2.17	0.76
38:BQ:54:LEU:HD12	38:BQ:54:LEU:N	2.01	0.76
40:BS:53:ARG:HE	40:BS:53:ARG:HA	1.51	0.76
35:BN:75:SER:OG	40:BS:77:PRO:O	2.04	0.76
44:BW:66:LEU:HG	44:BW:69:TYR:C	2.05	0.76
44:BW:92:LEU:CD1	44:BW:92:LEU:H	1.99	0.76
46:BY:28:MET:HA	46:BY:28:MET:HE2	1.65	0.76
24:BA:2602:A:O2'	47:BZ:1:MET:O	2.03	0.76
32:BK:122:GLU:HB2	32:BK:126:TYR:OH	1.85	0.76
32:BK:78:THR:C	32:BK:79:ILE:HD12	2.06	0.76
24:BA:2135:A:N7	24:BA:2160:G:H1'	1.99	0.76
26:BC:22:ILE:HG23	26:BC:189:ILE:HD12	1.67	0.76
1:AA:1192:C:C5	1:AA:1193:G:C8	2.74	0.76
1:AA:1247:U:H2'	1:AA:1248:A:C8	2.21	0.76
1:AA:1528:U:O2'	1:AA:1529:G:H3'	1.86	0.76
1:AA:601:C:H2'	1:AA:602:A:H8	1.51	0.76
1:AA:962:C:H1'	1:AA:1201:A:N1	1.99	0.76
4:AE:10:LEU:HD23	4:AE:11:LEU:HD23	1.68	0.76
4:AE:130:ARG:HD3	4:AE:131:PRO:HD3	1.66	0.76
4:AE:130:ARG:NE	4:AE:130:ARG:HA	1.99	0.76
4:AE:149:LEU:CD2	4:AE:153:ARG:HG2	2.16	0.76
4:AE:78:GLN:HE22	4:AE:96:ARG:NH1	1.83	0.76
9:AJ:15:ASP:OD1	9:AJ:18:TYR:HB2	1.85	0.76
12:AM:12:ASP:OD1	12:AM:14:LYS:N	2.19	0.76
12:AM:45:ARG:HB3	12:AM:45:ARG:NH1	1.98	0.76
12:AM:6:ILE:HG22	12:AM:98:ILE:HG13	1.66	0.76
13:AN:78:GLN:HB2	13:AN:103:LEU:O	1.85	0.76
15:AP:10:PRO:HG3	15:AP:18:ALA:HB1	1.68	0.76
17:AR:42:HIS:NE2	17:AR:43:LEU:HD23	1.99	0.76
17:AR:7:GLU:HA	17:AR:10:LYS:CD	2.15	0.76
18:AS:49:LEU:HD22	18:AS:73:LEU:HD21	1.67	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1000:A:H2'	24:BA:1001:A:O4'	1.85	0.76
24:BA:1530:G:C2'	24:BA:1531:C:C6	2.69	0.76
24:BA:1541:U:H5''	24:BA:1542:G:OP2	1.86	0.76
24:BA:1559:G:C2	24:BA:1560:G:H4'	2.20	0.76
24:BA:2057:A:H2'	24:BA:2058:A:H8	1.50	0.76
24:BA:219:G:H8	24:BA:219:G:O5'	1.68	0.76
24:BA:2749:A:C4'	31:BH:62:LYS:HG3	2.15	0.76
24:BA:323:G:H2'	29:BF:170:LEU:CB	2.13	0.76
24:BA:326:G:N2	24:BA:337:C:H1'	2.01	0.76
24:BA:355:G:H2'	24:BA:356:G:H8	1.46	0.76
24:BA:580:C:H2'	24:BA:581:C:H6	1.50	0.76
24:BA:621:A:N6	24:BA:622:G:C2	2.53	0.76
24:BA:673:C:C2'	24:BA:674:G:H5'	2.15	0.76
25:BB:28:C:H6	25:BB:28:C:O5'	1.67	0.76
27:BD:58:HIS:O	27:BD:59:LYS:CG	2.34	0.76
24:BA:1658:C:P	28:BE:134:ILE:HB	2.25	0.76
29:BF:158:THR:CG2	29:BF:195:ASP:HB2	2.16	0.76
31:BH:153:LYS:H	31:BH:154:PRO:HD2	1.48	0.76
32:BK:32:PRO:HD2	32:BK:33:ARG:HG2	1.67	0.76
24:BA:557:U:O3'	34:BM:112:LEU:HG	1.86	0.76
36:BO:88:LEU:CD1	36:BO:124:LYS:HZ1	1.97	0.76
38:BQ:102:GLU:CG	38:BQ:103:ARG:H	1.98	0.76
24:BA:2822:G:OP2	38:BQ:4:LEU:HD11	1.85	0.76
40:BS:11:GLU:CD	40:BS:11:GLU:N	2.38	0.76
40:BS:29:ARG:HA	40:BS:51:ARG:HA	1.68	0.76
42:BU:12:TYR:CG	42:BU:13:ARG:N	2.54	0.76
46:BY:114:GLY:HA3	46:BY:180:VAL:HG11	1.68	0.76
47:BZ:47:PRO:HG3	47:BZ:53:MET:SD	2.26	0.76
26:BC:214:VAL:HG23	26:BC:224:ILE:HD13	1.67	0.76
1:AA:1156:G:C1'	1:AA:1179:A:H61	1.96	0.76
1:AA:307:C:N4	1:AA:308:C:H41	1.84	0.76
1:AA:66:G:H5'	1:AA:173:U:O4	1.86	0.76
1:AA:828:A:O4'	1:AA:859:A:C2	2.39	0.76
4:AE:178:ARG:HA	4:AE:184:VAL:HG21	1.67	0.76
4:AE:77:ALA:HB2	4:AE:211:ILE:HD13	1.67	0.76
1:AA:1057:G:H4'	5:AF:197:GLY:N	2.01	0.76
6:AG:108:LEU:HD23	6:AG:174:LEU:HD13	1.66	0.76
6:AG:170:VAL:HG23	6:AG:176:LEU:HB3	1.68	0.76
6:AG:147:ALA:HB1	6:AG:181:MET:O	1.85	0.76
7:AH:79:GLU:CD	7:AH:79:GLU:H	1.88	0.76
8:AI:33:TYR:HE2	8:AI:74:ASP:HB2	1.50	0.76
9:AJ:86:GLN:O	9:AJ:148:ASN:HB3	1.84	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AK:110:ALA:HA	10:AK:136:GLU:HB2	1.66	0.76
11:AL:11:LYS:N	11:AL:104:ARG:HH21	1.83	0.76
11:AL:51:ARG:HH11	11:AL:51:ARG:HA	1.50	0.76
14:AO:117:ARG:HH22	14:AO:124:LYS:HG3	1.51	0.76
18:AS:6:LEU:HB2	18:AS:17:TYR:HB3	1.67	0.76
19:AT:10:VAL:HG12	19:AT:54:GLY:H	1.51	0.76
22:AW:56:MET:O	22:AW:59:ALA:HB3	1.86	0.76
49:B2:54:VAL:CG2	49:B2:55:ARG:H	1.97	0.76
24:BA:2420:C:H5''	54:B7:35:GLN:HE22	1.50	0.76
55:B8:4:ARG:O	55:B8:5:ALA:HB2	1.83	0.76
24:BA:1201:C:N4	24:BA:1241:A:N6	2.33	0.76
24:BA:1451:C:C4	24:BA:1454:U:OP1	2.39	0.76
24:BA:1890:A:H3'	24:BA:1891:G:H8	1.51	0.76
24:BA:574:C:C2	24:BA:2055:C:C5	2.74	0.76
24:BA:2538:C:H2'	24:BA:2539:C:C6	2.21	0.76
24:BA:460:A:H2'	24:BA:461:C:H6	1.50	0.76
24:BA:60:G:H21	24:BA:74:A:C4'	1.99	0.76
24:BA:723:G:O2'	24:BA:724:U:H5'	1.85	0.76
24:BA:59:U:O4'	24:BA:73:A:C2	2.39	0.76
24:BA:775:G:H21	24:BA:787:U:H2'	1.49	0.76
27:BD:112:GLN:O	27:BD:115:GLN:HB3	1.86	0.76
27:BD:147:LEU:HD23	27:BD:147:LEU:H	1.51	0.76
27:BD:159:ALA:C	27:BD:196:VAL:HG21	2.05	0.76
29:BF:119:ARG:HH21	29:BF:119:ARG:CB	1.97	0.76
30:BG:67:LYS:O	30:BG:67:LYS:HG3	1.84	0.76
33:BL:12:LEU:HB3	33:BL:13:PRO:HD2	1.66	0.76
38:BQ:79:LEU:CD2	38:BQ:80:PHE:N	2.47	0.76
40:BS:102:ILE:O	40:BS:104:ASN:N	2.19	0.76
42:BU:16:PRO:HD3	42:BU:100:ARG:NH1	2.00	0.76
42:BU:35:LEU:N	42:BU:61:VAL:HG13	2.01	0.76
42:BU:64:HIS:HA	42:BU:97:LYS:CD	2.14	0.76
26:BC:47:LEU:HG	26:BC:49:ILE:HG23	1.68	0.76
1:AA:337:C:H2'	1:AA:338:A:C8	2.20	0.76
1:AA:511:C:HO2'	1:AA:512:U:H6	1.30	0.76
1:AA:129(A):G:H4'	1:AA:130:A:O5'	1.85	0.76
1:AA:1363:A:H5''	1:AA:1364:U:OP1	1.86	0.76
1:AA:228:A:C2'	1:AA:229:U:H5'	2.16	0.76
1:AA:301:G:H21	1:AA:302:G:H1'	1.49	0.76
1:AA:522:C:N4	1:AA:523:A:N6	2.33	0.76
1:AA:529:G:H8	1:AA:529:G:H3'	1.48	0.76
3:AC:19:G:H3'	3:AC:20:U:C5	2.21	0.76
3:AC:58:A:H2'	3:AC:61:C:N4	2.01	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:222:ILE:HD13	4:AE:226:ARG:HH21	1.51	0.76
5:AF:35:GLU:HA	5:AF:38:ARG:CG	2.16	0.76
1:AA:404:U:H4'	6:AG:122:ARG:HH11	1.49	0.76
6:AG:144:ASP:HA	6:AG:184:LYS:NZ	2.00	0.76
10:AK:70:GLN:HE21	10:AK:71:GLY:N	1.84	0.76
1:AA:1202:G:C1'	16:AQ:29:ARG:HE	1.99	0.76
22:AW:72:LEU:HD13	22:AW:77:ALA:CB	2.15	0.76
48:B1:58:VAL:HG22	48:B1:59:LEU:N	2.00	0.76
52:B5:40:CYS:SG	52:B5:46:HIS:HA	2.25	0.76
53:B6:43:THR:C	53:B6:45:ALA:H	1.89	0.76
54:B7:30:ARG:HG2	54:B7:31:HIS:H	1.51	0.76
24:BA:1023:U:P	24:BA:1025:G:N1	2.59	0.76
24:BA:151:C:H2'	24:BA:152:G:C8	2.20	0.76
24:BA:1532:C:H2'	24:BA:1533:C:C6	2.21	0.76
24:BA:1935:G:N1	24:BA:1962:C:H2'	2.00	0.76
24:BA:2431:U:O2	24:BA:2433:A:OP2	2.04	0.76
24:BA:2071:A:C2	24:BA:2441:C:N3	2.54	0.76
24:BA:2595:G:H1'	24:BA:2599:G:N2	2.00	0.76
24:BA:2711:A:H5'	24:BA:2712:U:C5'	2.15	0.76
24:BA:519:U:C6	24:BA:519:U:H5'	2.15	0.76
24:BA:559:G:C8	24:BA:559:G:H5'	2.18	0.76
24:BA:686:G:C8	53:B6:7:PRO:HA	2.21	0.76
24:BA:704:G:H22	24:BA:726:G:H1'	1.48	0.76
24:BA:839:U:H2'	24:BA:840:C:C5	2.21	0.76
27:BD:56:GLY:H	27:BD:217:ARG:CD	1.96	0.76
28:BE:58:ARG:HG2	28:BE:63:LEU:CD2	2.16	0.76
32:BK:28:ASN:O	32:BK:32:PRO:HG3	1.86	0.76
35:BN:4:PRO:CG	35:BN:5:GLN:H	1.88	0.76
35:BN:64:ARG:HG3	35:BN:65:THR:N	2.01	0.76
37:BP:41:TRP:HB3	37:BP:74:TYR:OH	1.86	0.76
38:BQ:55:ALA:CB	38:BQ:79:LEU:HD21	2.15	0.76
39:BR:89:ARG:CG	39:BR:90:GLY:H	1.94	0.76
41:BT:15:LYS:O	41:BT:18:LEU:HB2	1.85	0.76
44:BW:12:VAL:O	44:BW:12:VAL:HG12	1.86	0.76
45:BX:47:LYS:HZ3	45:BX:51:VAL:HG21	1.49	0.76
46:BY:55:HIS:HB3	46:BY:101:PRO:CG	2.14	0.76
26:BC:64:LEU:CD2	26:BC:191:ALA:HB3	2.15	0.76
1:AA:1265:G:H2'	1:AA:1266:G:H5'	1.68	0.76
1:AA:1492:A:N6	14:AO:50:SER:HB2	2.00	0.76
1:AA:448:A:H2'	1:AA:449:C:C6	2.21	0.76
1:AA:482:A:H2	1:AA:483:C:O4'	1.67	0.76
1:AA:562:C:H5''	1:AA:563:A:OP1	1.85	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:766:A:H2'	1:AA:767:A:C8	2.20	0.76
1:AA:918:A:H2'	1:AA:919:A:C8	2.21	0.76
3:AC:8:U:O4'	3:AC:48:C:O2'	2.03	0.76
5:AF:137:ALA:O	5:AF:141:VAL:HG23	1.86	0.76
5:AF:67:THR:CG2	5:AF:104:GLN:HG2	2.16	0.76
6:AG:110:PHE:HE1	6:AG:148:VAL:HG23	1.49	0.76
10:AK:103:VAL:HB	10:AK:108:GLY:C	2.06	0.76
12:AM:30:SER:HB2	12:AM:81:THR:N	2.00	0.76
15:AP:14:ARG:H	15:AP:44:ARG:CD	1.99	0.76
23:AX:7:ARG:HG3	23:AX:8:THR:H	1.51	0.76
53:B6:19:ARG:HB3	53:B6:23:ARG:CZ	2.15	0.76
54:B7:5:LYS:HG3	54:B7:10:ALA:HB2	1.67	0.76
55:B8:15:LYS:O	55:B8:25:VAL:HG13	1.86	0.76
24:BA:1309:G:H2'	24:BA:1310:G:H5'	1.65	0.76
24:BA:1403:C:O3'	24:BA:1471:A:H4'	1.86	0.76
24:BA:1406:U:O2'	24:BA:1407:C:O5'	2.02	0.76
24:BA:1708:C:O2'	24:BA:1709:U:H5''	1.84	0.76
24:BA:1805:U:H2'	24:BA:1806:C:C6	2.21	0.76
24:BA:2369:A:H2'	24:BA:2370:G:C8	2.21	0.76
24:BA:2576:G:OP1	24:BA:2577:A:OP1	2.04	0.76
24:BA:270(E):G:O2'	24:BA:270(F):U:H5'	1.86	0.76
24:BA:640:C:O2'	24:BA:641:C:H5''	1.86	0.76
24:BA:643:A:H4'	24:BA:644:A:O5'	1.85	0.76
24:BA:661:C:H5''	36:BO:15:ARG:HH11	1.51	0.76
27:BD:95:LEU:C	27:BD:95:LEU:HD13	2.07	0.76
28:BE:179:GLU:HB2	28:BE:181:LEU:CD1	2.15	0.76
29:BF:125:LEU:HD22	29:BF:127:GLU:O	1.85	0.76
29:BF:81:PRO:HG2	29:BF:82:ILE:HD12	1.67	0.76
31:BH:115:VAL:CG1	31:BH:116:GLU:N	2.49	0.76
34:BM:74:ARG:HG3	34:BM:82:LEU:CD2	2.11	0.76
35:BN:105:GLU:O	35:BN:111:PHE:CZ	2.31	0.76
38:BQ:74:LYS:NZ	38:BQ:74:LYS:HB2	2.01	0.76
38:BQ:55:ALA:HA	38:BQ:79:LEU:HD21	1.68	0.76
39:BR:106:ARG:CZ	39:BR:110:LEU:HD22	2.16	0.76
41:BT:30:LYS:HD2	41:BT:30:LYS:N	2.01	0.76
41:BT:97:ASP:CA	41:BT:101:ARG:HH21	1.99	0.76
42:BU:78:LYS:HB2	42:BU:84:LYS:HB3	1.68	0.76
45:BX:12:THR:HA	45:BX:73:ARG:CD	2.16	0.76
24:BA:84:A:C5'	45:BX:8:LYS:HG3	2.16	0.76
46:BY:94:GLU:HA	46:BY:130:PRO:HB3	1.68	0.76
3:AD:55:U:C2'	3:AD:57:G:N7	2.49	0.76
24:BA:2128:C:P	26:BC:36:LYS:HB2	2.26	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1347:G:O2'	1:AA:1348:U:OP2	2.04	0.75
1:AA:498:A:H4'	1:AA:500:G:OP1	1.85	0.75
1:AA:578:C:N4	1:AA:579:G:O6	2.19	0.75
1:AA:601:C:C2	1:AA:602:A:C8	2.74	0.75
1:AA:888:G:N2	1:AA:909:A:N6	2.24	0.75
3:AC:34:G:O2'	3:AC:35:A:H5'	1.86	0.75
4:AE:119:GLU:HA	4:AE:142:LEU:HD13	1.67	0.75
4:AE:95:GLN:HE21	4:AE:148:TYR:CB	1.98	0.75
4:AE:48:MET:HA	4:AE:51:LEU:HD12	1.68	0.75
4:AE:69:LEU:O	4:AE:162:ILE:CA	2.34	0.75
5:AF:40:ARG:O	5:AF:43:LEU:HB3	1.86	0.75
12:AM:60:ARG:H	12:AM:60:ARG:HD3	1.51	0.75
15:AP:90:LEU:HD23	15:AP:93:ARG:CD	2.16	0.75
1:AA:1314:C:H3'	21:AV:6:LYS:CD	2.16	0.75
22:AW:57:ARG:NH2	22:AW:100:ILE:HB	2.01	0.75
48:B1:48:LEU:HA	48:B1:51:GLN:NE2	2.01	0.75
24:BA:1312:U:C3'	24:BA:1313:U:H6	1.97	0.75
24:BA:1349:A:C2	24:BA:1598:C:N3	2.54	0.75
24:BA:1728:G:H3'	24:BA:1728:G:OP1	1.86	0.75
24:BA:1773:A:C4	24:BA:1774:C:O2	2.39	0.75
24:BA:270(Z):U:H2'	24:BA:270(Z):U:O2	1.85	0.75
24:BA:1759:A:HO2'	24:BA:2714:G:HO2'	1.33	0.75
24:BA:324:A:N6	24:BA:339:U:H1'	2.00	0.75
24:BA:247:G:H4'	24:BA:386:G:C2	2.21	0.75
25:BB:48:A:H2'	25:BB:49:C:H6	1.51	0.75
29:BF:131:GLY:CA	29:BF:138:GLU:HG3	2.15	0.75
29:BF:41:LEU:O	29:BF:44:ARG:CZ	2.34	0.75
24:BA:2305:A:C2'	30:BG:154:GLY:HA2	2.15	0.75
31:BH:85:LYS:HD2	31:BH:145:ALA:CB	2.16	0.75
33:BL:112:MET:SD	33:BL:115:LEU:HD12	2.26	0.75
24:BA:1131:G:N2	34:BM:72:TYR:CE1	2.53	0.75
24:BA:2562:U:H1'	35:BN:23:ARG:HH21	1.51	0.75
39:BR:11:LYS:H	39:BR:11:LYS:CD	1.99	0.75
40:BS:61:PHE:HD1	40:BS:81:PRO:HD3	1.51	0.75
40:BS:80:SER:HB3	40:BS:81:PRO:HD3	1.67	0.75
40:BS:4:GLY:O	40:BS:8:LYS:HG3	1.85	0.75
24:BA:1225:C:O4'	42:BU:87:HIS:CE1	2.39	0.75
44:BW:7:VAL:CG1	48:B1:31:ARG:HH22	1.97	0.75
1:AA:1104:G:O2'	1:AA:1105:A:H5'	1.86	0.75
1:AA:115:G:O2'	1:AA:116:A:OP2	2.04	0.75
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.20	0.75
1:AA:1314:C:H2'	1:AA:1315:U:C5	2.20	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1318:A:O2'	21:AV:37:ARG:HB3	1.86	0.75
1:AA:482:A:C2	1:AA:483:C:O4'	2.38	0.75
1:AA:49:U:C2	1:AA:364:A:N6	2.48	0.75
1:AA:889:A:H4'	1:AA:890:G:O5'	1.85	0.75
5:AF:130:VAL:O	5:AF:133:ALA:HB3	1.86	0.75
5:AF:177:THR:HG23	5:AF:180:ALA:HB2	1.68	0.75
6:AG:79:PHE:HB2	6:AG:93:PHE:CE1	2.21	0.75
9:AJ:113:GLU:OE2	9:AJ:119:ARG:HG3	1.86	0.75
11:AL:116:LYS:HB3	11:AL:122:ALA:CA	2.16	0.75
1:AA:539:A:OP2	14:AO:115:LYS:HE3	1.87	0.75
14:AO:60:LEU:C	14:AO:60:LEU:HD22	2.07	0.75
14:AO:82:VAL:HG12	14:AO:83:VAL:H	1.50	0.75
15:AP:7:VAL:HG11	30:BG:140:ILE:HD12	1.68	0.75
18:AS:8:ARG:NH1	18:AS:11:SER:H	1.82	0.75
19:AT:59:ILE:HD11	19:AT:71:PHE:CB	2.15	0.75
48:B1:36:ILE:HG12	48:B1:37:GLY:N	2.01	0.75
49:B2:54:VAL:CG2	49:B2:55:ARG:N	2.49	0.75
50:B3:4:GLY:HA2	50:B3:11:PRO:CB	2.15	0.75
24:BA:242:G:C8	54:B7:4:MET:HG3	2.21	0.75
24:BA:1317:A:H2'	24:BA:1318:C:C6	2.21	0.75
24:BA:149:A:H2'	24:BA:150:C:H5'	1.66	0.75
24:BA:1664:A:C8	24:BA:1664:A:H3'	2.21	0.75
24:BA:2058:A:C2'	24:BA:2059:A:H8	1.98	0.75
24:BA:210:C:H5''	53:B6:29:LYS:HZ1	1.51	0.75
24:BA:2282:G:H1	24:BA:2427:C:N4	1.82	0.75
24:BA:2295:C:H1'	24:BA:2338:G:N2	2.01	0.75
24:BA:2447:G:C8	24:BA:2500:U:C6	2.74	0.75
24:BA:2595:G:H1'	24:BA:2599:G:H22	1.50	0.75
24:BA:2841:C:C2'	24:BA:2842:G:H8	1.98	0.75
24:BA:209:C:H5'	24:BA:681:G:H4'	1.66	0.75
24:BA:727:A:N3	24:BA:728:G:H5'	2.00	0.75
24:BA:861:A:C5	24:BA:917:A:H2	2.03	0.75
24:BA:980:A:C6	24:BA:1135:C:H4'	2.21	0.75
24:BA:1789:A:H4'	27:BD:222:ARG:CZ	2.16	0.75
27:BD:37:LEU:HD11	27:BD:63:ARG:CA	2.15	0.75
28:BE:121:ASN:HB3	28:BE:122:PHE:CD1	2.22	0.75
28:BE:59:VAL:O	28:BE:63:LEU:HG	1.85	0.75
29:BF:110:LEU:CD1	29:BF:181:LEU:HD23	2.16	0.75
30:BG:131:TYR:CD1	30:BG:132:ASN:N	2.53	0.75
31:BH:83:TYR:O	31:BH:135:GLY:N	2.16	0.75
35:BN:8:LEU:HD22	35:BN:9:GLU:N	2.00	0.75
37:BP:43:THR:HG23	37:BP:46:GLN:HB2	1.68	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2848:G:H8	40:BS:99:LEU:HD11	1.51	0.75
32:BK:109:ILE:HG21	32:BK:113:ARG:NH2	2.01	0.75
32:BK:123:LEU:HD11	32:BK:145:VAL:CA	2.14	0.75
26:BC:22:ILE:HD11	26:BC:226:PRO:HA	1.67	0.75
24:BA:487:C:O2'	43:BV:52:GLU:HB3	1.86	0.75
1:AA:1239:A:H1'	1:AA:1241:G:C4	2.21	0.75
1:AA:22:G:H2'	1:AA:23:C:O4'	1.87	0.75
1:AA:243:A:N6	1:AA:283:C:H41	1.83	0.75
1:AA:745:C:OP1	1:AA:851:G:O2'	2.04	0.75
1:AA:8:A:N6	6:AG:209:ARG:HH12	1.84	0.75
3:AC:66:U:H3'	3:AC:67:C:C6	2.20	0.75
4:AE:53:ARG:HE	4:AE:199:TYR:HE2	1.34	0.75
8:AI:35:ALA:O	8:AI:36:ARG:HG3	1.86	0.75
11:AL:103:THR:HG22	11:AL:104:ARG:N	2.00	0.75
13:AN:18:ARG:HD3	13:AN:34:ASP:O	1.87	0.75
13:AN:20:TYR:CE2	13:AN:83:ILE:HG12	2.19	0.75
49:B2:10:LYS:HE2	49:B2:31:LEU:CD2	2.15	0.75
50:B3:57:GLU:HA	50:B3:61:ARG:CZ	2.17	0.75
54:B7:15:LYS:O	54:B7:22:VAL:HA	1.86	0.75
24:BA:1065:U:H1'	24:BA:1074:G:H22	1.51	0.75
24:BA:1166:C:C2	24:BA:1184:G:N2	2.54	0.75
24:BA:1275:A:H2	38:BQ:16:HIS:CA	1.96	0.75
24:BA:1327:C:H3'	24:BA:1328:G:C8	2.21	0.75
24:BA:1682:G:OP2	24:BA:1699:G:N2	2.18	0.75
24:BA:1683:C:C2	24:BA:1684:C:C5	2.74	0.75
24:BA:2517:C:C4	24:BA:2542:A:N7	2.53	0.75
24:BA:2597:G:O4'	27:BD:242:ARG:NH2	2.19	0.75
24:BA:2794:C:H2'	24:BA:2795:G:OP1	1.87	0.75
24:BA:2840:C:H5''	38:BQ:53:HIS:HD2	1.51	0.75
24:BA:326:G:H22	24:BA:337:C:H1'	1.49	0.75
24:BA:826:U:OP1	24:BA:2429:G:OP1	2.05	0.75
24:BA:847:U:O2	24:BA:934:G:N3	2.19	0.75
27:BD:42:GLY:HA2	27:BD:60:ARG:HH22	1.51	0.75
28:BE:124:GLY:HA3	28:BE:136:ARG:HB2	1.67	0.75
29:BF:188:ARG:HG2	29:BF:188:ARG:HH21	1.52	0.75
29:BF:122:LYS:CE	29:BF:192:LEU:HD12	2.16	0.75
30:BG:124:SER:O	30:BG:132:ASN:HB3	1.87	0.75
30:BG:96:ARG:HD3	30:BG:97:ASP:OD1	1.87	0.75
31:BH:103:LEU:HD13	31:BH:115:VAL:CG1	2.15	0.75
31:BH:16:SER:HB3	31:BH:27:LYS:HB2	1.65	0.75
33:BL:7:VAL:CG1	33:BL:58:THR:HG21	2.05	0.75
24:BA:2640:G:H4'	34:BM:75:TYR:OH	1.85	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BN:7:TYR:HB3	35:BN:18:LYS:CE	2.15	0.75
35:BN:94:ARG:HG3	35:BN:96:THR:H	1.52	0.75
40:BS:82:LEU:O	40:BS:84:GLN:N	2.19	0.75
41:BT:7:GLY:O	41:BT:8:VAL:C	2.24	0.75
42:BU:3:ALA:HB2	42:BU:44:LYS:HD2	1.68	0.75
45:BX:46:LYS:HB3	45:BX:46:LYS:NZ	2.02	0.75
26:BC:116:THR:CG2	26:BC:149:ILE:HB	2.16	0.75
24:BA:1886:C:H2'	24:BA:1887:C:H6	1.50	0.75
1:AA:489:C:H2'	1:AA:490:G:H8	1.51	0.75
1:AA:1292:U:H2'	1:AA:1293:G:C8	2.20	0.75
1:AA:1506:U:H5''	1:AA:1507:A:OP2	1.86	0.75
1:AA:520:A:N7	1:AA:521:G:C8	2.54	0.75
1:AA:50:A:O2'	1:AA:52:G:N7	2.20	0.75
1:AA:640:A:H2'	1:AA:641:U:O4'	1.85	0.75
1:AA:673:G:H2'	1:AA:674:G:C8	2.21	0.75
1:AA:90:C:O2'	1:AA:91:C:H5'	1.85	0.75
3:AC:62:C:O2'	3:AC:63:G:H5'	1.86	0.75
4:AE:178:ARG:HA	4:AE:178:ARG:HH11	1.51	0.75
4:AE:221:LEU:HD13	4:AE:221:LEU:C	2.06	0.75
1:AA:9:G:OP2	7:AH:121:LYS:HD2	1.86	0.75
8:AI:22:GLU:OE2	8:AI:82:ARG:HD2	1.85	0.75
10:AK:114:THR:HG23	10:AK:119:LEU:HD23	1.66	0.75
10:AK:22:GLU:CA	10:AK:63:LEU:HD22	2.14	0.75
10:AK:46:LYS:CE	10:AK:64:LYS:HA	2.16	0.75
1:AA:1180:A:OP1	11:AL:102:LEU:HB2	1.86	0.75
11:AL:9:ARG:HD2	11:AL:14:VAL:CG2	2.15	0.75
14:AO:56:ALA:HB2	14:AO:70:ILE:CG1	2.16	0.75
15:AP:82:MET:CE	15:AP:93:ARG:HA	2.16	0.75
16:AQ:41:ARG:O	16:AQ:45:ARG:HG2	1.86	0.75
1:AA:761:G:C4'	19:AT:103:GLY:H	2.00	0.75
1:AA:586:C:OP1	19:AT:34:LYS:NZ	2.18	0.75
19:AT:63:ARG:HG2	19:AT:64:PRO:HD2	1.67	0.75
24:BA:248:G:OP1	50:B3:28:LYS:HE2	1.86	0.75
24:BA:1107:G:C2'	24:BA:1108:U:H5'	2.15	0.75
24:BA:1255:U:C4	29:BF:72:ARG:O	2.39	0.75
24:BA:141(A):C:H2'	24:BA:142:G:O4'	1.87	0.75
24:BA:1475:G:H22	24:BA:1477:A:H62	1.32	0.75
24:BA:1537:C:H2'	24:BA:1538:G:H5'	1.67	0.75
24:BA:1650:G:H21	24:BA:1651:G:H1'	1.51	0.75
24:BA:1681:G:C2	24:BA:1762:A:N7	2.54	0.75
24:BA:1791:A:H3'	24:BA:1792:G:C8	2.20	0.75
24:BA:746:A:N7	24:BA:2611:U:O3'	2.20	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:349:G:OP2	24:BA:349:G:C8	2.40	0.75
24:BA:388:G:C2'	24:BA:390:A:N7	2.48	0.75
24:BA:397:G:O2'	24:BA:2231:C:H1'	1.86	0.75
24:BA:445:C:H3'	41:BT:3:ARG:NE	2.01	0.75
24:BA:514:A:H2	24:BA:515:A:C4	2.05	0.75
24:BA:574:C:H1'	24:BA:2055:C:C5	2.22	0.75
24:BA:900:A:O2'	24:BA:901:A:H5'	1.86	0.75
25:BB:9:G:H2'	25:BB:9:G:N3	2.01	0.75
29:BF:103:LYS:HA	29:BF:106:ARG:CG	2.15	0.75
31:BH:69:ARG:HG3	31:BH:70:THR:N	1.99	0.75
34:BM:13:TRP:O	34:BM:138:LEU:HB2	1.85	0.75
34:BM:58:ASP:O	34:BM:60:ILE:HG13	1.86	0.75
36:BO:114:ILE:CD1	36:BO:123:LEU:HG	2.16	0.75
36:BO:38:GLN:O	36:BO:40:SER:N	2.18	0.75
36:BO:97:PRO:HA	36:BO:102:ARG:NE	2.01	0.75
37:BP:16:ARG:HG2	37:BP:73:PRO:HD2	1.66	0.75
42:BU:35:LEU:C	42:BU:61:VAL:HG22	2.07	0.75
45:BX:2:ARG:HH21	45:BX:4:LYS:CB	1.99	0.75
26:BC:32:LEU:CB	26:BC:220:PRO:HG2	2.14	0.75
1:AA:1065:U:H2'	1:AA:1065:U:O2	1.85	0.75
1:AA:1095:U:OP2	1:AA:1108:G:N1	2.19	0.75
1:AA:1124:G:H21	1:AA:1126:U:H3	0.81	0.75
1:AA:1363:A:N3	1:AA:1365:G:C6	2.55	0.75
1:AA:283:C:H2'	1:AA:283:C:O2	1.85	0.75
1:AA:568:G:H21	1:AA:574:A:H2	1.31	0.75
1:AA:792:A:H2'	1:AA:794:A:N6	2.00	0.75
1:AA:889:A:H5'	1:AA:891:U:O4'	1.86	0.75
4:AE:17:PHE:CD1	4:AE:18:GLY:N	2.54	0.75
6:AG:132:ARG:NH1	6:AG:132:ARG:HG2	1.92	0.75
6:AG:31:CYS:O	6:AG:33:MET:HE3	1.86	0.75
9:AJ:74:GLU:HG2	9:AJ:75:VAL:N	2.02	0.75
10:AK:101:PRO:O	10:AK:102:ARG:HB2	1.87	0.75
14:AO:85:ILE:CD1	14:AO:99:HIS:N	2.50	0.75
21:AV:32:LYS:CA	21:AV:50:ALA:HB3	2.17	0.75
22:AW:72:LEU:HD23	22:AW:76:ALA:HB1	1.68	0.75
49:B2:26:LEU:CB	49:B2:28:LEU:HD21	2.15	0.75
24:BA:1471:A:C2'	24:BA:1472:A:H5'	2.16	0.75
24:BA:1496:A:C2	24:BA:1577:C:H1'	2.21	0.75
24:BA:1602:U:H2'	24:BA:1603:A:O5'	1.85	0.75
24:BA:1788:C:H2'	27:BD:222:ARG:NE	2.00	0.75
24:BA:2253:G:H2'	24:BA:2254:C:H6	1.51	0.75
24:BA:2508:G:O2'	24:BA:2509:G:H5'	1.86	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2051:A:C4	24:BA:2614:A:N6	2.55	0.75
24:BA:2820:A:O3'	38:BQ:4:LEU:HD22	1.87	0.75
24:BA:2886:G:O2'	51:B4:32:PRO:HD2	1.87	0.75
24:BA:49:A:N6	24:BA:176:G:C6	2.55	0.75
24:BA:668:G:N3	24:BA:670:A:N6	2.35	0.75
24:BA:740:U:C2'	24:BA:741:G:O5'	2.35	0.75
24:BA:748:G:H5'	24:BA:749:C:OP2	1.86	0.75
24:BA:989:G:O2'	24:BA:990:A:O5'	2.05	0.75
27:BD:159:ALA:O	27:BD:196:VAL:HG11	1.87	0.75
30:BG:102:PHE:CE2	30:BG:106:LEU:HD12	2.22	0.75
30:BG:75:LYS:HD3	30:BG:85:GLY:H	1.52	0.75
31:BH:87:LEU:HD23	31:BH:88:LEU:N	2.00	0.75
32:BK:34:GLY:O	32:BK:35:LEU:HD13	1.87	0.75
35:BN:92:GLU:OE1	35:BN:113:LYS:HB3	1.86	0.75
35:BN:18:LYS:HZ1	35:BN:44:LYS:HZ2	1.34	0.75
24:BA:661:C:H5''	36:BO:15:ARG:NH1	2.01	0.75
36:BO:77:ARG:NH1	36:BO:79:ARG:HG2	2.02	0.75
37:BP:85:LYS:HG3	37:BP:87:LYS:N	2.02	0.75
38:BQ:14:SER:O	38:BQ:18:LEU:HD23	1.86	0.75
39:BR:92:TYR:CG	39:BR:93:LYS:N	2.53	0.75
40:BS:18:ASP:HB3	40:BS:81:PRO:CA	2.14	0.75
43:BV:21:VAL:HA	43:BV:24:ILE:HG13	1.68	0.75
44:BW:49:VAL:HG12	44:BW:88:LYS:CG	2.16	0.75
47:BZ:21:LEU:HD13	47:BZ:41:ARG:HG2	1.67	0.75
26:BC:26:ALA:HB1	26:BC:182:PRO:HA	1.68	0.75
26:BC:62:VAL:HB	26:BC:195:ALA:HB2	1.67	0.75
1:AA:1035:A:C2'	1:AA:1036:G:H5'	2.17	0.75
1:AA:994:A:N1	1:AA:1047:G:H4'	2.02	0.75
1:AA:1148:U:O2	1:AA:1149:C:C6	2.40	0.75
1:AA:148:G:H1	1:AA:174:C:H42	1.32	0.75
1:AA:440:A:N6	1:AA:494:U:C5	2.55	0.75
1:AA:973:G:C2	1:AA:974:A:C6	2.75	0.75
3:AB:13:C:H2'	3:AB:14:A:H5''	1.67	0.75
1:AA:620:C:N1	6:AG:135:LEU:HD13	2.00	0.75
6:AG:50:ARG:NH1	6:AG:52:SER:HA	2.01	0.75
9:AJ:113:GLU:CG	9:AJ:118:VAL:HB	2.17	0.75
10:AK:4:ASP:HB2	10:AK:6:ILE:HG22	1.67	0.75
19:AT:40:LYS:HB3	19:AT:40:LYS:NZ	2.01	0.75
19:AT:7:THR:CG2	19:AT:8:GLY:N	2.50	0.75
20:AU:70:ILE:O	20:AU:73:ALA:HB3	1.86	0.75
22:AW:23:ARG:O	22:AW:26:ASN:ND2	2.20	0.75
48:B1:20:VAL:CA	48:B1:55:LEU:HD23	2.17	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2045:C:O2	51:B4:22:HIS:CE1	2.39	0.75
24:BA:2017:U:O2	51:B4:9:LYS:HA	1.85	0.75
24:BA:14:A:N7	24:BA:15:G:N9	2.34	0.75
24:BA:1698:A:H1'	24:BA:1700:A:O5'	1.86	0.75
24:BA:1742:C:N4	24:BA:1743:G:C8	2.55	0.75
24:BA:1800:C:C6	24:BA:1800:C:C3'	2.68	0.75
24:BA:1808:U:N3	24:BA:1810:A:C2	2.54	0.75
24:BA:1815:A:OP1	24:BA:1822:G:H4'	1.86	0.75
24:BA:2021:C:C2'	24:BA:2022:U:OP1	2.34	0.75
24:BA:201:C:H2'	24:BA:202:U:H5'	1.68	0.75
24:BA:2055:C:H4'	24:BA:2056:G:C5'	2.15	0.75
24:BA:242:G:H3'	54:B7:4:MET:SD	2.24	0.75
24:BA:2633:G:H4'	24:BA:2812:G:OP1	1.86	0.75
24:BA:643:A:H1'	24:BA:644:A:N7	2.02	0.75
24:BA:781:A:C1'	27:BD:222:ARG:NH1	2.49	0.75
25:BB:104:A:H2'	25:BB:105:G:O4'	1.86	0.75
24:BA:600:G:O2'	29:BF:105:VAL:HG22	1.87	0.75
30:BG:77:ILE:O	30:BG:83:ARG:NE	2.20	0.75
34:BM:109:LYS:HZ2	34:BM:110:GLY:N	1.85	0.75
34:BM:17:ASP:HB3	34:BM:21:LYS:NZ	2.00	0.75
35:BN:16:ALA:CB	35:BN:45:GLU:HB2	2.17	0.75
35:BN:7:TYR:HA	35:BN:18:LYS:HE3	1.67	0.75
35:BN:18:LYS:HZ1	35:BN:44:LYS:NZ	1.84	0.75
36:BO:75:ILE:HG22	36:BO:115:LEU:CD1	2.14	0.75
38:BQ:54:LEU:HD22	38:BQ:66:VAL:HG23	1.68	0.75
40:BS:30:VAL:HG22	40:BS:32:TYR:OH	1.87	0.75
41:BT:65:ILE:N	41:BT:65:ILE:HD13	2.02	0.75
44:BW:50:LYS:HG3	44:BW:84:ALA:HB3	1.69	0.75
46:BY:4:ARG:HH22	46:BY:88:PHE:HE1	1.33	0.75
47:BZ:51:VAL:HG21	47:BZ:79:VAL:O	1.86	0.75
47:BZ:47:PRO:HG2	47:BZ:53:MET:HB2	1.69	0.75
32:BK:108:THR:C	32:BK:109:ILE:HD12	2.06	0.75
1:AA:274:A:O2'	1:AA:275:G:C1'	2.35	0.75
1:AA:284:G:O2'	1:AA:285:G:H5'	1.86	0.75
1:AA:754:C:H2'	1:AA:755:G:OP1	1.87	0.75
1:AA:932:C:OP1	9:AJ:3:ARG:HB3	1.87	0.75
4:AE:178:ARG:HA	4:AE:178:ARG:NH1	2.01	0.75
6:AG:108:LEU:HD21	6:AG:174:LEU:HB3	1.67	0.75
9:AJ:72:ARG:CZ	9:AJ:142:GLU:OE1	2.35	0.75
10:AK:119:LEU:HD22	10:AK:119:LEU:N	2.01	0.75
11:AL:47:LEU:HD13	11:AL:47:LEU:O	1.86	0.75
12:AM:24:VAL:HG21	12:AM:37:PRO:HD3	1.67	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AN:101:SER:O	13:AN:103:LEU:HG	1.86	0.75
14:AO:5:PRO:O	14:AO:6:THR:HG23	1.87	0.75
48:B1:56:LEU:N	48:B1:56:LEU:HD13	2.01	0.75
54:B7:39:LYS:O	54:B7:42:ARG:HB2	1.87	0.75
24:BA:1451:C:H3'	24:BA:1453:A:H4'	1.68	0.75
24:BA:1631:A:N6	24:BA:1683:C:H5'	2.01	0.75
24:BA:2043:C:N4	24:BA:2777:G:C4	2.54	0.75
24:BA:2404:C:H2'	24:BA:2405:G:C8	2.21	0.75
24:BA:2496:C:H3'	24:BA:2497:A:C2	2.21	0.75
24:BA:108:U:H4'	24:BA:348:G:N2	2.02	0.75
24:BA:399:G:C6	24:BA:400:G:H1'	2.21	0.75
24:BA:1861:G:H4'	26:BC:205:LYS:NZ	2.02	0.75
27:BD:154:LYS:HG3	27:BD:154:LYS:O	1.86	0.75
27:BD:69:ARG:NH2	27:BD:130:ALA:HB2	2.02	0.75
30:BG:116:ASP:HB3	30:BG:118:ARG:NH2	2.01	0.75
31:BH:69:ARG:HB2	31:BH:69:ARG:CZ	2.16	0.75
34:BM:46:VAL:CG1	34:BM:47:ALA:N	2.40	0.75
35:BN:16:ALA:O	35:BN:18:LYS:N	2.19	0.75
37:BP:25:ASP:CB	37:BP:102:VAL:HG12	2.16	0.75
38:BQ:45:ARG:CB	38:BQ:95:THR:HG21	2.17	0.75
40:BS:7:ILE:O	40:BS:11:GLU:OE2	2.03	0.75
41:BT:19:LYS:HZ3	41:BT:19:LYS:HB2	1.50	0.75
41:BT:48:ALA:O	41:BT:51:LYS:HB2	1.86	0.75
41:BT:98:LEU:HB3	41:BT:105:VAL:HG11	1.68	0.75
42:BU:3:ALA:HB1	42:BU:44:LYS:HZ2	1.51	0.75
46:BY:17:ALA:HA	46:BY:20:ARG:NH2	2.01	0.75
46:BY:71:VAL:HA	46:BY:87:ASP:O	1.86	0.75
32:BK:66:GLU:HG3	32:BK:69:LYS:HZ2	1.51	0.75
24:BA:2110:G:H2'	24:BA:2120:G:O5'	1.86	0.75
6:AG:43:HIS:HB3	6:AG:46:LYS:CG	2.15	0.75
24:BA:1583:A:H5'	24:BA:1585:C:H5'	1.66	0.75
24:BA:1766:U:O2'	24:BA:1767:C:H5'	1.86	0.75
24:BA:80:G:C1'	24:BA:347:A:N6	2.50	0.75
1:AA:1320:C:N4	21:AV:36:ARG:NH1	2.33	0.75
1:AA:1517:G:H1'	24:BA:1919:A:O3'	1.85	0.75
1:AA:66:G:H4'	1:AA:173:U:C4	2.21	0.75
1:AA:748:C:C6	1:AA:748:C:H3'	2.22	0.75
1:AA:894:G:O2'	1:AA:895:G:H5'	1.86	0.75
1:AA:888:G:H21	1:AA:909:A:H62	0.75	0.75
5:AF:71:ALA:HA	5:AF:105:GLU:HG3	1.69	0.75
6:AG:147:ALA:CB	6:AG:182:LYS:HA	2.16	0.75
10:AK:126:LYS:HD2	10:AK:127:LEU:N	2.02	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AL:40:LEU:C	11:AL:42:ARG:H	1.90	0.75
20:AU:38:GLU:CD	20:AU:38:GLU:H	1.89	0.75
48:B1:14:VAL:HA	48:B1:17:GLU:CD	2.07	0.75
49:B2:31:LEU:HB3	49:B2:32:GLN:NE2	2.02	0.75
24:BA:1518:C:H3'	24:BA:1519:G:C5'	2.17	0.75
24:BA:1707:G:H2'	24:BA:1708:C:C6	2.22	0.75
24:BA:1746:G:OP2	24:BA:1746:G:H3'	1.85	0.75
24:BA:1772:G:H21	24:BA:1774:C:H5'	1.52	0.75
24:BA:2027:G:H2'	24:BA:2028:U:C6	2.21	0.75
24:BA:2063:C:OP2	24:BA:2064:C:OP2	2.04	0.75
24:BA:2278:A:H62	47:BZ:14:ARG:HB3	1.51	0.75
24:BA:2305:A:C5	30:BG:42:GLY:HA2	2.22	0.75
24:BA:200:U:C4	24:BA:248:G:N7	2.54	0.75
24:BA:459:U:OP2	53:B6:40:TRP:HA	1.87	0.75
24:BA:600:G:N2	24:BA:604:G:H4'	2.01	0.75
24:BA:755:C:H2'	24:BA:756:C:C6	2.21	0.75
24:BA:690:G:O2'	24:BA:780:G:OP1	2.03	0.75
24:BA:961:C:O2'	24:BA:962:G:OP1	2.01	0.75
27:BD:181:GLU:HB2	27:BD:268:ARG:NH2	2.01	0.75
27:BD:37:LEU:HD21	27:BD:64:ILE:H	1.49	0.75
28:BE:129:HIS:CD2	28:BE:129:HIS:H	2.05	0.75
28:BE:84:PHE:C	28:BE:85:ASN:HD22	1.90	0.75
30:BG:71:THR:HG22	30:BG:71:THR:O	1.86	0.75
34:BM:16:ILE:N	34:BM:16:ILE:HD12	2.02	0.75
34:BM:26:LEU:O	34:BM:30:ILE:HG13	1.86	0.75
34:BM:4:TYR:CD2	41:BT:100:VAL:HG11	2.22	0.75
35:BN:10:VAL:N	35:BN:17:ARG:HG2	2.01	0.75
37:BP:39:PRO:CG	37:BP:127:ILE:HG12	2.17	0.75
38:BQ:36:THR:HB	38:BQ:40:LYS:HD3	1.66	0.75
39:BR:62:LYS:CB	39:BR:65:VAL:HG13	2.17	0.75
40:BS:53:ARG:HH22	40:BS:102:ILE:H	1.31	0.75
40:BS:54:ARG:O	40:BS:64:ARG:HB2	1.86	0.75
43:BV:24:ILE:HG22	43:BV:32:ALA:HB1	1.68	0.75
45:BX:84:ARG:HD2	45:BX:84:ARG:C	2.08	0.75
46:BY:113:ALA:HB1	46:BY:145:GLU:CD	2.07	0.75
24:BA:1503:U:H2'	24:BA:1504:C:C5	2.21	0.75
1:AA:342:C:H2'	1:AA:343:U:H6	1.52	0.75
1:AA:186(A):C:H2'	1:AA:186(B):C:O4'	1.87	0.75
1:AA:55:A:H2'	1:AA:56:U:O4'	1.87	0.75
1:AA:973:G:C2	1:AA:974:A:C5	2.74	0.75
5:AF:157:ILE:HG13	5:AF:164:ARG:CG	2.16	0.75
5:AF:83:ARG:O	5:AF:87:LEU:HG	1.87	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:85:ARG:NH2	5:AF:89:GLU:HB2	2.01	0.75
6:AG:13:ARG:HG2	6:AG:32:ALA:HB2	1.68	0.75
6:AG:18:LYS:HE3	6:AG:33:MET:HB2	1.69	0.75
8:AI:76:ALA:CB	8:AI:80:ARG:HH22	1.99	0.75
9:AJ:62:PHE:O	9:AJ:66:VAL:HG23	1.86	0.75
10:AK:123:GLU:O	10:AK:126:LYS:HG3	1.86	0.75
10:AK:65:TYR:C	10:AK:67:PRO:HD3	2.06	0.75
12:AM:82:ILE:O	12:AM:86:MET:HB3	1.87	0.75
13:AN:44:SER:O	13:AN:48:ILE:HG12	1.87	0.75
13:AN:48:ILE:HD11	13:AN:64:ALA:HB2	1.67	0.75
14:AO:37:CYS:HA	14:AO:58:VAL:CG2	2.10	0.75
15:AP:13:LYS:HD3	15:AP:21:TYR:OH	1.86	0.75
17:AR:31:LEU:O	17:AR:34:LEU:HG	1.86	0.75
1:AA:986:A:H4'	21:AV:55:LYS:HG3	1.68	0.75
22:AW:51:GLU:HA	22:AW:54:LYS:CE	2.17	0.75
49:B2:30:ARG:HD2	49:B2:30:ARG:N	2.01	0.75
50:B3:56:VAL:O	50:B3:61:ARG:NH2	2.20	0.75
24:BA:594:U:H5''	54:B7:61:LEU:CD1	2.16	0.75
24:BA:1530:G:C3'	24:BA:1531:C:C6	2.68	0.75
24:BA:1670:C:P	24:BA:1671:U:H5	2.10	0.75
24:BA:2016:U:O4'	51:B4:6:VAL:HG11	1.87	0.75
24:BA:2306:C:OP1	30:BG:136:ARG:HD3	1.86	0.75
24:BA:2311:A:H3'	24:BA:2312:U:C6	2.22	0.75
24:BA:2394:C:P	36:BO:57:THR:HA	2.27	0.75
24:BA:2789:C:O2'	24:BA:2893:G:N2	2.15	0.75
24:BA:328:U:H3	24:BA:332:A:H62	1.32	0.75
24:BA:300:A:H2'	24:BA:334:C:O2'	1.86	0.75
24:BA:452:G:C3'	24:BA:453:C:H5''	2.13	0.75
24:BA:735:A:O5'	24:BA:735:A:H8	1.67	0.75
27:BD:66:ASP:OD2	27:BD:103:ARG:HD3	1.86	0.75
27:BD:174:ILE:CD1	27:BD:184:LYS:HE3	2.16	0.75
27:BD:183:ARG:HG2	27:BD:268:ARG:CG	2.16	0.75
28:BE:105:THR:HG23	28:BE:197:ILE:HD13	1.68	0.75
28:BE:4:ILE:HG21	28:BE:30:PRO:HG3	1.69	0.75
29:BF:37:VAL:HG12	29:BF:41:LEU:HD23	1.68	0.75
30:BG:125:PHE:O	30:BG:126:ASP:HB3	1.87	0.75
30:BG:41:GLN:HG3	30:BG:42:GLY:N	2.02	0.75
31:BH:106:THR:HG23	31:BH:111:HIS:HB3	1.68	0.75
35:BN:12:ASP:CB	35:BN:93:PRO:HG2	2.17	0.75
35:BN:2:ILE:HD13	35:BN:31:LYS:O	1.86	0.75
38:BQ:98:LEU:HD23	38:BQ:99:LYS:NZ	2.01	0.75
39:BR:78:LEU:HD13	39:BR:79:ALA:H	1.52	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BS:18:ASP:CB	40:BS:81:PRO:HA	2.14	0.75
40:BS:95:ARG:NH2	40:BS:96:ARG:NH2	2.35	0.75
42:BU:17:GLY:HA3	42:BU:19:LYS:HZ3	1.50	0.75
42:BU:6:LYS:HB3	42:BU:10:LYS:CA	2.11	0.75
43:BV:20:VAL:HG13	43:BV:21:VAL:N	2.01	0.75
24:BA:456:C:H5	44:BW:68:ARG:HH12	1.33	0.75
45:BX:8:LYS:CA	45:BX:28:LYS:HD2	2.17	0.75
46:BY:27:VAL:CG2	46:BY:85:HIS:HE1	1.99	0.75
32:BK:128:LEU:CD2	32:BK:129:THR:H	2.00	0.75
26:BC:71:GLN:CD	26:BC:72:VAL:HG23	2.07	0.75
1:AA:1288:A:H2'	1:AA:1289:A:C8	2.18	0.74
1:AA:1462:G:O2'	1:AA:1463:C:H5'	1.87	0.74
1:AA:274:A:HO2'	1:AA:275:G:C1'	2.00	0.74
1:AA:408:A:H5'	6:AG:116:GLN:HG2	1.66	0.74
1:AA:687:A:O2'	1:AA:688:G:O4'	2.04	0.74
4:AE:16:HIS:CE1	4:AE:213:LEU:HD13	2.21	0.74
9:AJ:38:LEU:O	9:AJ:41:ARG:HB2	1.87	0.74
11:AL:37:PHE:CE1	11:AL:74:ILE:HG23	2.22	0.74
11:AL:58:HIS:CD2	11:AL:59:PHE:CD1	2.75	0.74
18:AS:8:ARG:NH1	18:AS:11:SER:N	2.35	0.74
51:B4:45:VAL:HB	51:B4:50:GLY:CA	2.14	0.74
52:B5:17:LYS:NZ	52:B5:50:ARG:HB2	2.02	0.74
53:B6:43:THR:HG23	53:B6:46:VAL:CG2	2.17	0.74
54:B7:13:ARG:O	54:B7:14:VAL:HB	1.86	0.74
24:BA:1063:G:N7	24:BA:1064:C:N4	2.34	0.74
24:BA:1223:C:HO2'	24:BA:1225:C:H5	1.32	0.74
24:BA:1315:C:O2'	24:BA:1392:A:H1'	1.86	0.74
24:BA:1524:G:H2'	24:BA:1525:G:C8	2.20	0.74
24:BA:1746:G:H2'	24:BA:1747:G:C8	2.22	0.74
24:BA:2231:C:H2'	24:BA:2232:U:H6	1.53	0.74
24:BA:2246:G:N2	24:BA:2247:A:C4	2.55	0.74
24:BA:257:A:H2'	24:BA:258:G:O4'	1.87	0.74
24:BA:2594:C:O2'	24:BA:2595:G:H5'	1.87	0.74
24:BA:2690:C:C6	24:BA:2690:C:H3'	2.22	0.74
24:BA:270(H):C:H2'	24:BA:270(I):G:H8	1.51	0.74
24:BA:270(Z):U:OP1	24:BA:270(Z):U:H4'	1.87	0.74
24:BA:36:G:H4'	24:BA:451:C:C2	2.21	0.74
24:BA:632:A:H2'	24:BA:633:A:C8	2.22	0.74
24:BA:656:G:H2'	24:BA:657:U:C6	2.22	0.74
24:BA:686:G:H4'	24:BA:687:C:OP2	1.85	0.74
24:BA:727:A:H2'	24:BA:728:G:H5'	1.69	0.74
24:BA:728:G:O2'	24:BA:729:G:H5''	1.87	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:673:C:N4	24:BA:808:G:H1	1.85	0.74
27:BD:85:ASP:HB2	27:BD:87:ASN:HD21	1.50	0.74
27:BD:87:ASN:N	27:BD:87:ASN:ND2	2.27	0.74
28:BE:190:GLY:O	28:BE:191:PRO:O	2.05	0.74
28:BE:109:LYS:N	28:BE:191:PRO:HD3	2.02	0.74
30:BG:104:GLU:HG3	30:BG:105:LYS:N	2.02	0.74
30:BG:94:LEU:HG	30:BG:98:ARG:NH1	2.02	0.74
34:BM:70:LYS:HA	34:BM:85:ILE:O	1.87	0.74
29:BF:31:HIS:ND1	36:BO:11:GLY:HA3	2.02	0.74
37:BP:41:TRP:CA	37:BP:95:ALA:O	2.35	0.74
37:BP:42:ILE:HG23	37:BP:47:ILE:HD11	1.69	0.74
38:BQ:96:ARG:CG	38:BQ:98:LEU:HD11	2.15	0.74
39:BR:64:GLU:OE2	39:BR:67:ARG:HB3	1.85	0.74
40:BS:109:GLU:O	40:BS:110:ILE:HB	1.87	0.74
28:BE:8:LYS:HE3	40:BS:2:ASN:OD1	1.85	0.74
42:BU:67:GLY:CA	42:BU:93:GLU:O	2.35	0.74
46:BY:96:VAL:HG13	46:BY:128:VAL:HG22	1.68	0.74
3:AD:40:C:C2'	3:AD:41:C:H5''	2.17	0.74
1:AA:1063:C:C4	1:AA:1064:G:N7	2.55	0.74
1:AA:1208:C:H2'	1:AA:1209:C:H6	1.51	0.74
1:AA:978:A:H61	1:AA:1361:G:H22	1.28	0.74
1:AA:1517:G:N2	1:AA:1518:A:H1'	2.02	0.74
1:AA:440:A:H3'	1:AA:442:C:C6	2.21	0.74
1:AA:714:G:H1'	1:AA:777:A:C8	2.22	0.74
1:AA:898:G:H2'	1:AA:900:A:OP2	1.86	0.74
7:AH:143:ARG:O	7:AH:147:ASP:HB2	1.87	0.74
8:AI:14:LEU:HD12	8:AI:15:ASP:H	1.50	0.74
8:AI:47:ARG:CD	8:AI:57:GLN:HB3	2.17	0.74
8:AI:64:GLN:O	8:AI:65:VAL:HG12	1.85	0.74
9:AJ:62:PHE:HA	9:AJ:124:LEU:HD21	1.68	0.74
12:AM:22:LYS:NZ	12:AM:90:LEU:HD12	2.01	0.74
15:AP:104:ARG:CG	15:AP:105:THR:HG23	2.17	0.74
15:AP:25:ILE:HA	15:AP:29:ARG:HG3	1.66	0.74
17:AR:33:THR:HG23	17:AR:87:ILE:CD1	2.17	0.74
18:AS:35:LYS:HZ1	18:AS:37:GLY:H	1.35	0.74
19:AT:33:GLY:O	19:AT:34:LYS:O	2.05	0.74
19:AT:57:VAL:HB	19:AT:75:ARG:O	1.87	0.74
22:AW:90:GLN:HA	22:AW:93:GLU:OE1	1.86	0.74
24:BA:1022:G:N7	34:BM:65:LYS:HE3	2.01	0.74
24:BA:1055:G:O5'	24:BA:1055:G:H8	1.70	0.74
24:BA:1467:C:N4	24:BA:1524:G:O6	2.20	0.74
24:BA:1655:A:H2'	24:BA:1656:C:C6	2.20	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1793:C:H42	24:BA:1825:A:H61	1.33	0.74
24:BA:1944:U:H1'	24:BA:1955:U:O4'	1.86	0.74
24:BA:1969:A:H5'	24:BA:1970:A:OP1	1.85	0.74
24:BA:2027:G:O2'	24:BA:2028:U:H5'	1.87	0.74
24:BA:2052:G:H1'	28:BE:150:VAL:N	2.02	0.74
24:BA:2563:U:N3	24:BA:2566:A:OP2	2.20	0.74
24:BA:2864:G:H2'	24:BA:2865:U:C5	2.20	0.74
24:BA:465:G:H21	24:BA:683:C:H2'	1.53	0.74
24:BA:624:C:H5'	24:BA:625:G:OP2	1.86	0.74
27:BD:121:PRO:C	27:BD:135:PHE:HE2	1.89	0.74
27:BD:169:GLU:CB	27:BD:184:LYS:HZ1	1.98	0.74
27:BD:225:ALA:HB3	27:BD:231:HIS:CE1	2.22	0.74
29:BF:176:LEU:HD21	29:BF:180:GLY:O	1.87	0.74
34:BM:7:LYS:NZ	34:BM:10:GLU:H	1.84	0.74
35:BN:24:VAL:HG22	35:BN:30:ALA:HA	1.69	0.74
37:BP:134:ARG:HH11	37:BP:134:ARG:C	1.89	0.74
38:BQ:26:LYS:HG2	38:BQ:70:LEU:HD13	1.69	0.74
38:BQ:75:LEU:HA	38:BQ:78:LYS:HB3	1.68	0.74
40:BS:17:THR:CB	40:BS:20:PRO:HD3	2.17	0.74
40:BS:67:SER:OG	40:BS:75:ILE:HG23	1.87	0.74
42:BU:91:TYR:O	42:BU:92:THR:HB	1.87	0.74
43:BV:33:ARG:HH11	43:BV:36:LEU:HB3	1.52	0.74
43:BV:33:ARG:HD3	43:BV:37:ARG:HD3	1.69	0.74
24:BA:2178:C:H5''	26:BC:46:LYS:NZ	2.02	0.74
26:BC:6:ARG:HD2	26:BC:6:ARG:O	1.87	0.74
26:BC:97:GLU:HA	26:BC:100:ILE:CD1	2.13	0.74
18:AS:67:THR:HB	18:AS:70:ALA:HB2	1.68	0.74
1:AA:1302:U:C2'	1:AA:1303:C:H5'	2.17	0.74
1:AA:1494:G:HO2'	1:AA:1495:U:H5	1.32	0.74
1:AA:1500:A:H5''	1:AA:1508:G:H5''	1.70	0.74
1:AA:735:C:H5'	20:AU:71:LYS:HD3	1.69	0.74
1:AA:965:A:C8	1:AA:969:A:C4	2.75	0.74
3:AC:14:A:H2'	3:AC:15:G:H8	1.52	0.74
4:AE:222:ILE:CD1	4:AE:226:ARG:HH21	1.99	0.74
5:AF:140:ARG:HB3	5:AF:140:ARG:NH1	2.02	0.74
1:AA:1056:U:O2	5:AF:195:VAL:HG23	1.87	0.74
5:AF:20:SER:CB	5:AF:40:ARG:HH22	1.97	0.74
7:AH:81:GLU:HA	7:AH:90:VAL:HG22	1.67	0.74
10:AK:92:ARG:HG2	10:AK:92:ARG:HH11	1.51	0.74
19:AT:11:VAL:HB	19:AT:20:THR:OG1	1.86	0.74
1:AA:1312:G:N7	21:AV:2:PRO:O	2.19	0.74
49:B2:41:PRO:HA	49:B2:44:ARG:NH1	2.01	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1081:U:H2'	24:BA:1082:U:O4'	1.86	0.74
24:BA:1184:G:H2'	24:BA:1185:C:H5'	1.69	0.74
24:BA:1190:G:OP1	36:BO:31:ALA:N	2.20	0.74
24:BA:140:A:H61	24:BA:1596:A:H4'	1.52	0.74
24:BA:1706:U:O2	24:BA:1706:U:H2'	1.86	0.74
24:BA:2016:U:H5''	24:BA:2058:A:OP1	1.87	0.74
24:BA:2333:A:H4'	24:BA:2335:A:O4'	1.85	0.74
24:BA:221:A:N7	24:BA:266:G:O6	2.20	0.74
24:BA:640:C:N4	24:BA:647:G:H1	1.84	0.74
24:BA:805:G:H2'	24:BA:806:C:OP1	1.86	0.74
24:BA:81:G:H4'	24:BA:294:A:C2	2.23	0.74
24:BA:849:A:N3	49:B2:21:ALA:HB1	2.02	0.74
27:BD:182:LEU:CD1	27:BD:270:ILE:HD11	2.17	0.74
24:BA:1799:G:H5''	27:BD:264:LYS:HE2	1.69	0.74
27:BD:77:ALA:CB	27:BD:95:LEU:HD21	2.14	0.74
28:BE:111:ARG:H	28:BE:161:GLY:CA	2.00	0.74
24:BA:2512:C:H5''	28:BE:120:TRP:CZ2	2.22	0.74
28:BE:102:VAL:HG23	28:BE:200:GLU:OE1	1.87	0.74
29:BF:118:ALA:CB	29:BF:122:LYS:HE2	2.17	0.74
30:BG:135:LEU:HD22	30:BG:136:ARG:H	1.52	0.74
30:BG:79:ASN:CG	30:BG:82:LEU:HG	2.07	0.74
31:BH:121:ILE:HA	31:BH:134:SER:O	1.86	0.74
31:BH:85:LYS:NZ	31:BH:141:VAL:HG12	2.02	0.74
34:BM:22:THR:HG23	34:BM:25:ARG:CZ	2.18	0.74
34:BM:34:LEU:HD21	34:BM:52:VAL:HG12	1.67	0.74
24:BA:2685:G:O5'	35:BN:67:LYS:HD2	1.86	0.74
38:BQ:113:LEU:HD13	38:BQ:114:VAL:N	2.02	0.74
38:BQ:45:ARG:HG2	38:BQ:46:GLY:N	2.02	0.74
40:BS:53:ARG:NH2	40:BS:102:ILE:H	1.84	0.74
34:BM:42:TRP:CZ3	41:BT:67:ALA:HB1	2.23	0.74
44:BW:36:LYS:HD3	44:BW:39:ILE:HD12	1.69	0.74
46:BY:103:ARG:HB2	46:BY:138:GLU:HG2	1.66	0.74
46:BY:57:ILE:CG2	46:BY:58:VAL:H	2.00	0.74
47:BZ:51:VAL:HG11	47:BZ:79:VAL:HG23	1.69	0.74
26:BC:10:LEU:CD1	26:BC:13:LYS:HD2	2.16	0.74
1:AA:10:A:O2'	1:AA:11:G:H5'	1.86	0.74
1:AA:198:G:C8	1:AA:198:G:OP2	2.38	0.74
1:AA:355:C:N4	1:AA:356:A:H62	1.84	0.74
1:AA:475:G:C2'	1:AA:476:G:H8	2.00	0.74
1:AA:508:C:O2'	1:AA:509:A:H8	1.69	0.74
1:AA:519:C:H2'	1:AA:520:A:H5'	1.67	0.74
1:AA:675:A:H2'	1:AA:676:A:C8	2.23	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:915:A:H2'	1:AA:916:G:C5'	2.17	0.74
7:AH:108:ALA:O	7:AH:112:LEU:HB2	1.87	0.74
8:AI:14:LEU:HD13	8:AI:15:ASP:H	1.52	0.74
9:AJ:46:ALA:CA	9:AJ:49:ILE:HD13	2.16	0.74
12:AM:49:VAL:CG1	16:AQ:45:ARG:HD2	2.16	0.74
50:B3:1:MET:O	50:B3:2:LYS:HG3	1.88	0.74
51:B4:9:LYS:N	51:B4:9:LYS:HD2	2.02	0.74
24:BA:1102:C:H3'	24:BA:1104:C:H5	1.52	0.74
24:BA:187:G:H2'	24:BA:1365:A:C2	2.22	0.74
24:BA:1368:G:H2'	24:BA:1369:G:H8	1.52	0.74
24:BA:1429:G:H3'	24:BA:1430:C:H6	1.51	0.74
24:BA:1435:G:N1	24:BA:1558:A:N6	2.36	0.74
24:BA:1513:C:N3	24:BA:1514:U:O4	2.20	0.74
24:BA:1520:U:H6	24:BA:1520:U:H3'	1.52	0.74
24:BA:1574:C:H2'	24:BA:1575:C:O4'	1.87	0.74
24:BA:1825:A:N6	24:BA:1826:G:O6	2.20	0.74
24:BA:243:U:O2	24:BA:244:A:H5'	1.87	0.74
24:BA:2585:U:H2'	24:BA:2585:U:O2	1.87	0.74
24:BA:2623:G:H22	51:B4:22:HIS:HE1	1.33	0.74
24:BA:270(G):C:H2'	24:BA:270(H):C:C6	2.22	0.74
24:BA:365:C:O5'	24:BA:365:C:H6	1.68	0.74
28:BE:36:ARG:HB3	28:BE:41:LYS:HB2	1.69	0.74
28:BE:8:LYS:HD3	28:BE:9:VAL:CG2	2.15	0.74
29:BF:115:ALA:O	29:BF:119:ARG:HG3	1.87	0.74
29:BF:132:VAL:C	29:BF:134:GLY:H	1.91	0.74
29:BF:30:PRO:HA	29:BF:33:LEU:HD21	1.67	0.74
30:BG:28:VAL:HG12	30:BG:28:VAL:O	1.87	0.74
32:BK:2:LYS:HZ2	32:BK:39:ALA:HB1	1.52	0.74
36:BO:93:GLY:HA2	36:BO:112:LEU:HD12	1.70	0.74
37:BP:37:LEU:HA	37:BP:100:GLY:CA	2.17	0.74
40:BS:34:VAL:HG11	40:BS:78:LEU:CD1	2.16	0.74
46:BY:49:ARG:O	46:BY:51:ALA:N	2.21	0.74
32:BK:124:GLY:O	32:BK:143:SER:HA	1.87	0.74
2:A1:48:U:H2'	2:A1:49:U:C5	2.21	0.74
1:AA:1026:G:H2'	1:AA:1027:C:H5'	1.69	0.74
1:AA:1144:G:N2	1:AA:1146:A:H62	1.84	0.74
1:AA:1236:A:H5''	1:AA:1304:G:H5''	1.70	0.74
1:AA:1360:A:N3	1:AA:1360:A:H2'	2.01	0.74
1:AA:1064:G:OP1	1:AA:1386:G:H4'	1.86	0.74
1:AA:371:G:C2'	1:AA:372:C:C5'	2.63	0.74
1:AA:738:C:H2'	1:AA:739:C:H6	1.52	0.74
1:AA:784:C:H5''	24:BA:1837:C:OP1	1.87	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:103:THR:OG1	4:AE:180:LEU:HD21	1.86	0.74
4:AE:84:GLU:OE2	4:AE:219:VAL:HG21	1.87	0.74
5:AF:131:ARG:HG3	5:AF:166:GLU:OE2	1.85	0.74
7:AH:80:ILE:O	7:AH:90:VAL:HA	1.87	0.74
8:AI:28:ARG:HG2	8:AI:28:ARG:HH11	1.52	0.74
1:AA:1240:U:C2'	9:AJ:32:ARG:HH21	2.00	0.74
9:AJ:75:VAL:HG22	9:AJ:88:PRO:CA	2.17	0.74
12:AM:51:ARG:HB2	12:AM:59:SER:O	1.87	0.74
12:AM:5:ARG:HB2	12:AM:5:ARG:CZ	2.17	0.74
13:AN:69:ALA:HB1	13:AN:103:LEU:HD12	1.68	0.74
13:AN:87:THR:HG22	13:AN:91:ARG:HH12	1.50	0.74
14:AO:41:ARG:NH1	14:AO:55:VAL:HG11	2.02	0.74
14:AO:8:ASN:H	14:AO:8:ASN:HD22	1.35	0.74
1:AA:1316:G:H4'	16:AQ:17:LYS:HD2	1.69	0.74
16:AQ:27:CYS:O	16:AQ:29:ARG:HG3	1.86	0.74
18:AS:3:LYS:CE	18:AS:24:ALA:HB2	2.17	0.74
51:B4:35:GLU:HB3	51:B4:49:CYS:CB	2.16	0.74
54:B7:25:MET:HB3	54:B7:44:LYS:HE2	1.67	0.74
55:B8:11:CYS:HB3	55:B8:32:HIS:CD2	2.22	0.74
24:BA:1028:A:H2	24:BA:2486:G:O2'	1.70	0.74
24:BA:1106:G:C6	24:BA:1107:G:C6	2.75	0.74
24:BA:1245:G:O2'	24:BA:1246:A:H5'	1.88	0.74
24:BA:1382:G:H2'	24:BA:1383:C:H6	1.51	0.74
24:BA:1669:A:H2'	24:BA:1670:C:H5'	1.68	0.74
24:BA:1820:U:N1	27:BD:202:LYS:HG2	2.03	0.74
24:BA:1944:U:H1'	24:BA:1955:U:C6	2.22	0.74
24:BA:2019:A:H3'	24:BA:2020:A:C5'	2.18	0.74
24:BA:2746:U:O4	24:BA:2756:U:C4	2.40	0.74
24:BA:2877:G:H3'	24:BA:2878:U:C5	2.23	0.74
24:BA:322:A:C5'	24:BA:341:G:H5'	2.18	0.74
24:BA:349:G:H2'	24:BA:350:U:H6	1.48	0.74
24:BA:587:C:C2	24:BA:671:C:O4'	2.39	0.74
24:BA:684:G:C2'	24:BA:687:C:H41	1.98	0.74
28:BE:197:ILE:HD13	28:BE:199:ARG:HH21	1.52	0.74
30:BG:120:LEU:HD22	30:BG:181:ARG:HG2	1.67	0.74
31:BH:97:ARG:HA	31:BH:125:VAL:HG11	1.69	0.74
34:BM:127:ASP:C	34:BM:129:PRO:HD2	2.06	0.74
24:BA:2780:G:N2	34:BM:97:ARG:NH1	2.23	0.74
37:BP:54:MET:SD	37:BP:121:ALA:HB2	2.27	0.74
39:BR:9:ARG:HA	39:BR:12:PHE:CE2	2.22	0.74
42:BU:23:GLU:HB2	42:BU:92:THR:O	1.87	0.74
46:BY:127:LYS:HA	46:BY:164:ALA:H	1.50	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BK:93:THR:CG2	32:BK:95:LYS:HB3	2.17	0.74
18:AS:44:THR:HG23	18:AS:45:THR:HG23	1.70	0.74
24:BA:1416:G:N2	24:BA:1582:C:O2	2.20	0.74
24:BA:363(C):G:O2'	24:BA:363(D):G:H5'	1.88	0.74
1:AA:101:A:H2'	1:AA:102:G:C8	2.19	0.74
1:AA:1150:U:H5'	1:AA:1280:A:C2	2.22	0.74
1:AA:1319:A:H4'	21:AV:70:LYS:NZ	2.01	0.74
1:AA:1435:G:H2'	1:AA:1436:U:C5	2.23	0.74
1:AA:17:U:H2'	1:AA:18:C:H6	1.53	0.74
1:AA:301:G:N2	1:AA:302:G:H1'	2.02	0.74
4:AE:74:LYS:NZ	4:AE:76:GLN:HB2	2.03	0.74
6:AG:118:ARG:NH2	6:AG:136:PRO:HB2	2.02	0.74
7:AH:72:GLN:HE22	7:AH:145:LYS:H	1.33	0.74
10:AK:11:THR:HA	10:AK:14:ARG:NH1	2.03	0.74
15:AP:60:VAL:CA	15:AP:63:THR:HG22	2.15	0.74
20:AU:29:PHE:CE2	20:AU:39:VAL:HG11	2.23	0.74
48:B1:20:VAL:CB	48:B1:55:LEU:HD23	2.17	0.74
52:B5:7:ILE:C	52:B5:9:LEU:N	2.41	0.74
54:B7:16:ILE:HG23	54:B7:22:VAL:HG23	1.69	0.74
24:BA:1020:A:C2	24:BA:1140:C:H2'	2.22	0.74
24:BA:1128:A:N6	24:BA:2518:A:N6	2.14	0.74
24:BA:1142:U:H6	24:BA:1142(A):A:C8	2.05	0.74
24:BA:1222:C:C4	24:BA:1223:C:C5	2.75	0.74
24:BA:1321:A:C2	24:BA:1322:A:O4'	2.40	0.74
24:BA:1407:C:H2'	24:BA:1408:C:H6	1.53	0.74
24:BA:1625:C:H2'	24:BA:1626:G:C4'	2.03	0.74
24:BA:1667:G:C2	24:BA:1991:U:C4	2.75	0.74
24:BA:237:C:H2'	24:BA:238:C:H6	1.51	0.74
24:BA:2865:U:H6	24:BA:2865:U:O5'	1.71	0.74
24:BA:387:U:H4'	24:BA:388:G:O4'	1.88	0.74
24:BA:697:C:C2'	24:BA:698:C:H5''	2.17	0.74
24:BA:750:A:O2'	24:BA:751:A:H5''	1.87	0.74
24:BA:915:C:H2'	24:BA:916:G:O4'	1.87	0.74
27:BD:79:VAL:HG21	27:BD:112:GLN:O	1.87	0.74
24:BA:1799:G:H3'	27:BD:183:ARG:HH21	1.52	0.74
29:BF:194:MET:CE	29:BF:200:GLU:HG2	2.18	0.74
29:BF:93:LYS:HG2	29:BF:94:PRO:O	1.88	0.74
30:BG:118:ARG:NH1	30:BG:118:ARG:HB3	2.01	0.74
30:BG:32:PRO:HG2	30:BG:172:LEU:HB2	1.70	0.74
31:BH:11:VAL:CG1	31:BH:11:VAL:O	2.34	0.74
34:BM:58:ASP:CG	34:BM:59:LYS:HG3	2.08	0.74
36:BO:23:PRO:HB2	36:BO:28:GLY:CA	2.15	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BR:13:ARG:HD3	39:BR:89:ARG:HE	1.51	0.74
45:BX:46:LYS:CE	45:BX:52:SER:HB2	2.18	0.74
46:BY:77:ASP:OD2	46:BY:80:ARG:HD3	1.88	0.74
24:BA:2135:A:C4'	24:BA:2136:C:H5	2.01	0.74
24:BA:1116:C:H2'	24:BA:1117:G:H8	1.50	0.74
1:AA:1239:A:H1'	1:AA:1241:G:C8	2.22	0.74
1:AA:137:C:H2'	1:AA:138:G:O5'	1.86	0.74
4:AE:178:ARG:NH2	4:AE:196:LEU:HB2	2.01	0.74
4:AE:20:GLU:O	4:AE:39:ILE:HG13	1.86	0.74
5:AF:83:ARG:O	5:AF:85:ARG:N	2.19	0.74
9:AJ:121:ALA:O	9:AJ:125:MET:HG2	1.87	0.74
10:AK:104:ARG:O	10:AK:106:GLY:N	2.20	0.74
10:AK:107:LEU:H	10:AK:107:LEU:HD23	1.50	0.74
1:AA:590:C:OP1	10:AK:29:SER:HB3	1.88	0.74
15:AP:19:LEU:HD11	15:AP:30:ALA:HB2	1.69	0.74
1:AA:728:A:C8	17:AR:54:ARG:CZ	2.71	0.74
18:AS:20:VAL:CG1	18:AS:21:VAL:N	2.51	0.74
49:B2:17:LYS:HA	49:B2:20:LYS:NZ	2.02	0.74
24:BA:210:C:H5''	53:B6:29:LYS:NZ	2.01	0.74
54:B7:53:PRO:HA	54:B7:56:GLU:CD	2.07	0.74
24:BA:1316:U:O2'	24:BA:1317:A:H5'	1.88	0.74
24:BA:1568:G:H5''	27:BD:60:ARG:C	2.07	0.74
24:BA:15:G:O2'	24:BA:16:G:H5'	1.88	0.74
24:BA:2017:U:H2'	24:BA:2018:G:OP1	1.86	0.74
24:BA:980:A:H2	24:BA:2038:G:O4'	1.69	0.74
24:BA:2631:G:N2	28:BE:61:ARG:HH12	1.86	0.74
24:BA:2808:U:C3'	24:BA:2809:A:H5''	2.18	0.74
24:BA:386:G:H4'	24:BA:387:U:C5	2.23	0.74
24:BA:542:C:O2'	24:BA:543:C:H5'	1.88	0.74
24:BA:814:C:H4'	24:BA:1224:G:N2	2.02	0.74
25:BB:100:G:H2'	25:BB:101:A:H8	1.49	0.74
27:BD:176:ARG:NH2	27:BD:182:LEU:HD11	2.03	0.74
28:BE:110:GLY:HA2	28:BE:161:GLY:C	2.07	0.74
28:BE:119:ARG:HG3	28:BE:156:MET:O	1.87	0.74
28:BE:2:LYS:HD3	28:BE:83:ASP:HB3	1.70	0.74
28:BE:51:PHE:CD1	28:BE:76:ARG:HG2	2.22	0.74
30:BG:40:ASN:HD22	30:BG:41:GLN:H	1.36	0.74
30:BG:75:LYS:CD	30:BG:85:GLY:H	2.00	0.74
36:BO:120:ALA:HB1	36:BO:137:LYS:HB3	1.68	0.74
37:BP:109:VAL:HG22	37:BP:113:GLN:HB2	1.68	0.74
37:BP:58:PHE:O	37:BP:60:ARG:N	2.21	0.74
40:BS:19:LEU:O	40:BS:20:PRO:C	2.26	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BS:17:THR:HB	40:BS:20:PRO:CD	2.18	0.74
41:BT:50:ARG:HE	42:BU:75:PHE:HE2	1.30	0.74
43:BV:25:ARG:HA	43:BV:71:VAL:HG11	1.67	0.74
46:BY:48:PHE:HB3	46:BY:54:HIS:CE1	2.23	0.74
46:BY:68:PRO:HG3	46:BY:131:ARG:HH22	1.51	0.74
1:AA:1004:A:C8	1:AA:1036:G:O6	2.32	0.74
1:AA:1057:G:H2'	1:AA:1058:G:H8	1.51	0.74
1:AA:1408:A:H2	1:AA:1494:G:O2'	1.70	0.74
6:AG:64:LEU:HD13	6:AG:65:ARG:N	2.03	0.74
8:AI:73:ASN:O	8:AI:76:ALA:HB3	1.88	0.74
8:AI:77:ARG:HA	8:AI:80:ARG:NE	2.03	0.74
10:AK:7:ALA:HA	10:AK:10:LEU:CD1	2.17	0.74
10:AK:112:LEU:HA	10:AK:134:ILE:HG13	1.69	0.74
10:AK:55:GLY:O	10:AK:57:PRO:HD3	1.88	0.74
10:AK:5:PRO:HA	10:AK:8:ASP:HB3	1.69	0.74
10:AK:86:ILE:HG21	10:AK:133:LEU:CB	2.15	0.74
11:AL:74:ILE:O	11:AL:77:ILE:HB	1.88	0.74
13:AN:102:GLY:C	13:AN:104:GLN:N	2.40	0.74
13:AN:121:PRO:O	13:AN:126:ARG:HD2	1.88	0.74
15:AP:22:ILE:O	15:AP:25:ILE:HG13	1.86	0.74
15:AP:29:ARG:HD3	15:AP:64:TRP:CZ2	2.23	0.74
15:AP:87:TYR:CB	21:AV:73:GLU:HB2	2.17	0.74
17:AR:5:LYS:HB2	17:AR:5:LYS:NZ	2.03	0.74
50:B3:42:PHE:O	50:B3:61:ARG:NH1	2.21	0.74
51:B4:17:ASP:O	51:B4:18:ALA:C	2.25	0.74
53:B6:43:THR:HG23	53:B6:46:VAL:HG21	1.67	0.74
24:BA:1025:G:N3	24:BA:1025:G:H2'	2.02	0.74
24:BA:1203:G:C4	24:BA:1241:A:H8	2.05	0.74
24:BA:1270:C:C4'	24:BA:1271:G:H5''	2.18	0.74
24:BA:2210:G:O6	27:BD:150:LYS:HA	1.87	0.74
24:BA:2227:A:H2'	24:BA:2228:G:O4'	1.86	0.74
24:BA:239:U:H2'	24:BA:240:G:O4'	1.88	0.74
24:BA:2655:G:H2'	24:BA:2655:G:N3	2.03	0.74
24:BA:2661:G:H2'	24:BA:2662:A:C8	2.19	0.74
24:BA:2718:G:H2'	24:BA:2719:G:C8	2.22	0.74
24:BA:2833:G:H2'	24:BA:2833:G:N3	2.03	0.74
24:BA:530:G:O2'	24:BA:531:C:OP1	2.04	0.74
24:BA:623:G:OP2	36:BO:105:LEU:HD11	1.87	0.74
24:BA:932:G:OP1	24:BA:932:G:H4'	1.88	0.74
27:BD:117:VAL:HG13	27:BD:129:ASN:CG	2.08	0.74
24:BA:2619:C:C5'	28:BE:152:LYS:HA	2.18	0.74
29:BF:176:LEU:CG	29:BF:178:PRO:HD2	2.17	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:184:TYR:H	29:BF:184:TYR:HD2	1.33	0.74
29:BF:41:LEU:HB2	29:BF:44:ARG:NH1	2.02	0.74
30:BG:174:GLU:O	30:BG:179:PRO:HD3	1.88	0.74
30:BG:88:ILE:O	30:BG:88:ILE:HG22	1.88	0.74
32:BK:9:LEU:HD23	32:BK:17:GLN:HE22	1.49	0.74
36:BO:74:GLU:CA	36:BO:107:LYS:HD3	2.18	0.74
37:BP:75:THR:HG22	37:BP:77:LYS:N	2.02	0.74
38:BQ:55:ALA:HA	38:BQ:80:PHE:CD1	2.23	0.74
39:BR:95:HIS:CA	39:BR:99:LYS:HB2	2.17	0.74
43:BV:69:LEU:HD23	43:BV:107:LEU:CD2	2.15	0.74
43:BV:82:LEU:CD1	43:BV:84:ARG:HG3	2.18	0.74
24:BA:856:C:H1'	47:BZ:69:PHE:CE1	2.23	0.74
3:AD:56:C:H5''	26:BC:133:PRO:CG	2.17	0.74
1:AA:1206:G:H4'	5:AF:192:THR:O	1.87	0.74
1:AA:1273:G:H3'	1:AA:1274:G:C8	2.23	0.74
1:AA:1284:C:H2'	1:AA:1285:A:N7	2.02	0.74
1:AA:1323:G:H4'	1:AA:1362(A):C:C4	2.23	0.74
1:AA:236:G:H3'	1:AA:237:C:H6	1.52	0.74
1:AA:894:G:C4	1:AA:895:G:C8	2.76	0.74
3:AC:16:U:H4'	3:AC:18:G:H5''	1.68	0.74
7:AH:81:GLU:HB3	7:AH:90:VAL:HG22	1.70	0.74
8:AI:99:ALA:HB2	20:AU:31:LEU:HD11	1.68	0.74
9:AJ:107:ALA:O	9:AJ:110:GLN:HB2	1.88	0.74
9:AJ:155:ARG:HA	9:AJ:155:ARG:NE	2.02	0.74
1:AA:1290:G:H4'	9:AJ:37:ASN:ND2	2.03	0.74
10:AK:29:SER:N	10:AK:32:LYS:HD2	2.03	0.74
13:AN:57:THR:CG2	13:AN:60:ALA:H	1.97	0.74
14:AO:83:VAL:HG22	14:AO:84:LEU:N	2.02	0.74
15:AP:29:ARG:HH12	15:AP:66:LEU:HB3	1.53	0.74
18:AS:23:ASP:O	18:AS:25:ARG:N	2.21	0.74
1:AA:474:G:P	18:AS:81:ARG:HA	2.27	0.74
21:AV:11:VAL:HG11	21:AV:41:VAL:HG22	1.70	0.74
21:AV:22:LEU:CG	21:AV:25:LYS:HZ1	1.99	0.74
22:AW:40:ALA:HB2	22:AW:55:ILE:CG2	2.18	0.74
53:B6:41:ARG:CB	53:B6:41:ARG:NH1	2.51	0.74
24:BA:1156:A:OP1	41:BT:55:ARG:NE	2.20	0.74
24:BA:1160:G:H2'	24:BA:1161:C:H5	1.53	0.74
24:BA:1269:A:H61	24:BA:2011:U:H3	1.32	0.74
24:BA:126:A:N7	24:BA:127:A:C4	2.56	0.74
24:BA:1359:A:H62	24:BA:1371:G:N2	1.81	0.74
24:BA:1476:C:C5	24:BA:1477:A:N6	2.56	0.74
24:BA:1602:U:O5'	24:BA:1602:U:C2	2.41	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1602:U:C6	24:BA:1602:U:C3'	2.69	0.74
24:BA:1913:A:C6	24:BA:1918:A:N7	2.56	0.74
24:BA:2092:U:H5	24:BA:2227:A:N6	1.86	0.74
24:BA:2345:G:HO2'	24:BA:2346:A:P	2.10	0.74
24:BA:197:A:H61	24:BA:248:G:H22	1.30	0.74
24:BA:2491:U:C6	24:BA:2492:U:C5'	2.70	0.74
24:BA:1782:C:N4	24:BA:2587:A:C6	2.56	0.74
24:BA:953:A:H2'	24:BA:954:G:C5'	2.09	0.74
25:BB:78:A:C2'	25:BB:79:C:H5'	2.18	0.74
27:BD:95:LEU:O	27:BD:102:LYS:HB3	1.88	0.74
27:BD:134:ARG:HG2	27:BD:187:GLY:C	2.08	0.74
24:BA:1566:A:C4	27:BD:215:LEU:HD22	2.22	0.74
24:BA:783:A:H3'	27:BD:227:ASN:HD21	1.53	0.74
27:BD:87:ASN:O	27:BD:88:ARG:HB2	1.87	0.74
28:BE:102:VAL:HA	28:BE:200:GLU:OE1	1.88	0.74
30:BG:111:LEU:HB3	30:BG:112:PRO:HD3	1.68	0.74
35:BN:63:VAL:HG23	35:BN:81:ASP:HA	1.69	0.74
36:BO:121:LYS:H	36:BO:137:LYS:CB	2.01	0.74
43:BV:77:ASP:O	43:BV:102:HIS:O	2.05	0.74
45:BX:47:LYS:HB2	45:BX:49:VAL:CG2	2.18	0.74
45:BX:98:VAL:O	45:BX:99:CYS:SG	2.45	0.74
46:BY:122:ARG:CG	46:BY:171:ILE:HA	2.17	0.74
37:BP:59:ARG:NH2	46:BY:177:PRO:HB3	2.02	0.74
47:BZ:37:LEU:HD21	47:BZ:60:PHE:CA	2.18	0.74
47:BZ:72:ARG:HB2	47:BZ:78:TYR:CD1	2.22	0.74
2:A1:34:U:H2'	2:A1:35:U:C6	2.22	0.74
1:AA:110:C:O2'	1:AA:111:G:H5'	1.88	0.74
1:AA:1151:A:OP1	12:AM:41:PRO:HA	1.87	0.74
1:AA:949:A:H1'	1:AA:1364:U:H3	1.51	0.74
1:AA:1479:C:O2'	1:AA:1480:G:H5'	1.87	0.74
1:AA:438:G:N2	1:AA:495:A:H8	1.86	0.74
1:AA:517:G:O2'	1:AA:530:G:H4'	1.87	0.74
1:AA:52:G:H2'	1:AA:53:A:O4'	1.87	0.74
4:AE:82:ARG:H	4:AE:94:ASN:HD21	1.35	0.74
4:AE:91:PRO:HD3	4:AE:154:LEU:HD13	1.70	0.74
5:AF:186:PHE:HA	5:AF:198:VAL:O	1.88	0.74
6:AG:194:LEU:HB3	6:AG:196:LEU:HD11	1.70	0.74
6:AG:200:GLU:HG3	6:AG:201:GLN:N	2.01	0.74
6:AG:8:VAL:O	6:AG:11:LEU:N	2.21	0.74
8:AI:6:VAL:HG12	8:AI:63:TYR:O	1.87	0.74
9:AJ:51:GLN:OE1	9:AJ:58:PRO:HD3	1.88	0.74
12:AM:23:ILE:CG1	12:AM:85:LEU:HB3	2.18	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AS:35:LYS:NZ	18:AS:37:GLY:N	2.36	0.74
18:AS:73:LEU:HD13	18:AS:73:LEU:C	2.07	0.74
20:AU:56:THR:HB	20:AU:58:LEU:HD12	1.69	0.74
52:B5:25:LYS:CE	54:B7:35:GLN:HB3	2.18	0.74
24:BA:84:A:O2'	24:BA:103:A:N1	2.20	0.74
24:BA:1053:C:H2'	24:BA:1054:A:C8	2.23	0.74
24:BA:1252:G:H22	41:BT:37:GLU:CG	2.00	0.74
24:BA:1258:C:H2'	24:BA:1259:G:H8	1.51	0.74
24:BA:1475:G:H1	24:BA:1477:A:H61	1.33	0.74
24:BA:2323:G:C2	24:BA:2324:C:C4	2.75	0.74
24:BA:2387:U:C1'	47:BZ:41:ARG:NH2	2.50	0.74
24:BA:2408:U:O2'	24:BA:2409:G:H5'	1.88	0.74
24:BA:2619:C:O2'	24:BA:2620:C:H5'	1.86	0.74
24:BA:26:G:H22	24:BA:27:G:H21	1.36	0.74
24:BA:2805:G:C3'	24:BA:2807:G:H5''	2.14	0.74
24:BA:623:G:H2'	24:BA:624:C:H5''	1.68	0.74
25:BB:25:A:H2'	25:BB:26:A:C8	2.23	0.74
25:BB:58:A:H8	25:BB:58:A:O5'	1.69	0.74
27:BD:133:LEU:HB2	27:BD:187:GLY:HA2	1.69	0.74
28:BE:51:PHE:CZ	28:BE:75:VAL:HG22	2.23	0.74
30:BG:125:PHE:HA	30:BG:132:ASN:HB3	1.70	0.74
30:BG:113:ARG:HD3	30:BG:139:LEU:HD21	1.70	0.74
30:BG:74:LYS:HG2	30:BG:75:LYS:CD	2.18	0.74
3:AC:57:G:H1'	30:BG:82:LEU:HD11	1.70	0.74
31:BH:26:VAL:HG21	31:BH:75:ALA:CB	2.18	0.74
34:BM:107:LEU:HD22	34:BM:117:PHE:CE1	2.22	0.74
34:BM:55:VAL:HB	34:BM:130:HIS:CE1	2.21	0.74
36:BO:116:GLY:HA3	36:BO:121:LYS:O	1.88	0.74
37:BP:124:LYS:CB	37:BP:124:LYS:HZ2	1.92	0.74
43:BV:70:TYR:CZ	43:BV:72:LYS:HB2	2.22	0.74
24:BA:456:C:C5	44:BW:68:ARG:NH1	2.55	0.74
45:BX:12:THR:HG22	45:BX:13:VAL:N	2.01	0.74
45:BX:88:LYS:HB3	45:BX:91:GLU:CD	2.08	0.74
46:BY:168:GLU:OE1	46:BY:169:GLU:HA	1.88	0.74
47:BZ:19:LYS:HZ1	47:BZ:41:ARG:HE	1.34	0.74
26:BC:19:ILE:HG23	26:BC:223:ARG:CG	2.18	0.74
24:BA:2:G:H2'	24:BA:3:U:C6	2.22	0.74
1:AA:1346:A:N6	1:AA:1374:A:H3'	2.03	0.73
1:AA:479:C:O5'	1:AA:479:C:H6	1.71	0.73
1:AA:88:C:O2'	1:AA:89:U:C6	2.41	0.73
1:AA:93:U:H2'	1:AA:95:G:C8	2.22	0.73
1:AA:92:G:H2'	1:AA:93:U:O4'	1.87	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AB:62:C:H2'	3:AB:63:G:H8	1.51	0.73
3:AC:21:A:N6	3:AC:46:G:H22	1.85	0.73
4:AE:15:VAL:HG23	4:AE:16:HIS:ND1	2.03	0.73
6:AG:152:SER:O	6:AG:154:ASN:N	2.20	0.73
7:AH:11:ILE:CG2	7:AH:12:LEU:H	2.01	0.73
10:AK:61:VAL:HG12	10:AK:62:TYR:N	2.02	0.73
11:AL:19:LEU:HD22	11:AL:59:PHE:HD2	1.51	0.73
11:AL:85:LEU:HD23	11:AL:96:LEU:CD1	2.15	0.73
12:AM:50:ILE:HA	12:AM:60:ARG:CG	2.11	0.73
14:AO:41:ARG:HB3	14:AO:41:ARG:HH11	1.53	0.73
16:AQ:15:LYS:O	16:AQ:16:PHE:HB2	1.87	0.73
13:AN:110:ASP:OD1	20:AU:85:LEU:HB3	1.87	0.73
21:AV:15:LEU:HG	21:AV:16:LEU:H	1.51	0.73
21:AV:45:VAL:HA	21:AV:67:VAL:HG21	1.70	0.73
22:AW:44:ALA:HB1	22:AW:91:LEU:HB2	1.70	0.73
22:AW:72:LEU:CD2	22:AW:76:ALA:HB1	2.18	0.73
50:B3:43:TYR:HA	50:B3:61:ARG:CZ	2.16	0.73
52:B5:44:ARG:HB2	52:B5:47:THR:HG21	1.70	0.73
53:B6:42:LEU:HB3	53:B6:44:PRO:CG	2.17	0.73
24:BA:1664:A:H2'	24:BA:1665:A:H8	1.51	0.73
24:BA:244:A:N6	24:BA:245:G:N3	2.36	0.73
24:BA:545:G:C1'	24:BA:549:G:H22	1.97	0.73
24:BA:580:C:H2'	24:BA:581:C:C6	2.23	0.73
24:BA:624:C:C3'	24:BA:624:C:C6	2.71	0.73
24:BA:691:C:C1'	27:BD:45:ASN:HD21	2.01	0.73
24:BA:824:A:H2'	24:BA:825:C:C5	2.23	0.73
24:BA:861:A:C6	24:BA:917:A:N3	2.56	0.73
25:BB:44:G:H21	25:BB:48:A:H1'	1.51	0.73
27:BD:154:LYS:O	27:BD:155:LEU:HB3	1.88	0.73
28:BE:4:ILE:CG2	28:BE:30:PRO:HG3	2.18	0.73
28:BE:49:LEU:HD12	28:BE:51:PHE:H	1.53	0.73
29:BF:110:LEU:O	29:BF:114:VAL:HG23	1.88	0.73
30:BG:39:ILE:HG23	30:BG:157:ILE:CG1	2.17	0.73
33:BL:21:PRO:HG2	33:BL:22:PRO:HD3	1.69	0.73
34:BM:13:TRP:O	34:BM:138:LEU:HD12	1.87	0.73
40:BS:103:ARG:O	40:BS:104:ASN:C	2.24	0.73
40:BS:32:TYR:O	40:BS:47:GLY:CA	2.32	0.73
41:BT:94:ASN:HD22	42:BU:6:LYS:HE3	1.51	0.73
42:BU:21:ARG:HG3	42:BU:21:ARG:HH11	1.52	0.73
42:BU:68:LYS:HZ3	42:BU:95:LEU:CD1	2.00	0.73
45:BX:1:MET:CA	45:BX:33:LYS:HE3	2.17	0.73
45:BX:46:LYS:HZ2	45:BX:52:SER:HB2	1.50	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BK:101:LEU:HG	32:BK:102:SER:N	2.03	0.73
1:AA:1382:C:H2'	1:AA:1383:C:C6	2.23	0.73
1:AA:1064:G:N3	1:AA:1066:C:N3	2.36	0.73
1:AA:1364:U:O2'	1:AA:1365:G:OP1	2.06	0.73
1:AA:49:U:C5	1:AA:361:G:N2	2.56	0.73
1:AA:50:A:N6	1:AA:361:G:C4'	2.50	0.73
4:AE:171:ALA:HA	4:AE:174:VAL:HB	1.70	0.73
9:AJ:105:VAL:O	9:AJ:108:ALA:HB3	1.88	0.73
11:AL:58:HIS:CD2	11:AL:59:PHE:HD1	2.06	0.73
15:AP:13:LYS:HB3	15:AP:17:VAL:HG11	1.69	0.73
16:AQ:29:ARG:HB3	16:AQ:29:ARG:NH1	2.02	0.73
19:AT:34:LYS:HE2	19:AT:35:VAL:O	1.89	0.73
21:AV:22:LEU:HD23	21:AV:22:LEU:O	1.87	0.73
22:AW:87:LYS:CE	22:AW:87:LYS:HA	2.18	0.73
48:B1:14:VAL:O	48:B1:17:GLU:HB2	1.88	0.73
50:B3:10:VAL:H	50:B3:11:PRO:HD3	1.52	0.73
50:B3:5:ILE:HD12	50:B3:8:LYS:C	2.08	0.73
24:BA:1340:U:HO2'	24:BA:1394:U:HO2'	1.35	0.73
24:BA:1517:G:H21	24:BA:1518:C:H1'	1.53	0.73
24:BA:154:G:H2'	24:BA:155:C:C6	2.23	0.73
24:BA:1864:U:H2'	24:BA:1869:G:C5'	2.18	0.73
24:BA:1943:U:H4'	24:BA:1944:U:C5'	2.18	0.73
24:BA:1967:C:O2	24:BA:1967:C:H2'	1.86	0.73
24:BA:1987:G:C2	24:BA:1988:C:C5	2.76	0.73
24:BA:2052:G:N9	28:BE:150:VAL:HG23	2.03	0.73
24:BA:805:G:O6	24:BA:2068:U:P	2.45	0.73
24:BA:2209:C:H2'	24:BA:2210:G:H3'	1.69	0.73
24:BA:2285:C:O4'	24:BA:2288:A:N6	2.20	0.73
24:BA:2447:G:O6	24:BA:2452:C:N4	2.20	0.73
24:BA:2469:A:C2	24:BA:2470:G:H1'	2.23	0.73
24:BA:2725:A:C2'	24:BA:2726:U:H3'	2.16	0.73
24:BA:2889:C:H2'	24:BA:2891:G:H8	1.46	0.73
24:BA:531:C:H3'	24:BA:532:A:O4'	1.88	0.73
24:BA:571:A:C8	24:BA:575:A:N6	2.55	0.73
24:BA:637:A:H2	24:BA:651:G:H5''	1.53	0.73
24:BA:752:A:N6	24:BA:1781:C:C1'	2.51	0.73
24:BA:75:G:H4'	48:B1:50:ARG:HH11	1.51	0.73
24:BA:81:G:H4'	24:BA:294:A:H2	1.52	0.73
24:BA:861:A:C5	24:BA:917:A:C2	2.75	0.73
29:BF:41:LEU:HB3	29:BF:184:TYR:HE1	1.53	0.73
31:BH:154:PRO:O	31:BH:155:SER:HB3	1.85	0.73
33:BL:71:THR:OG1	33:BL:114:ASP:HB3	1.87	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BN:23:ARG:O	35:BN:39:ILE:HB	1.88	0.73
35:BN:63:VAL:O	35:BN:64:ARG:HB3	1.88	0.73
36:BO:13:ASN:ND2	36:BO:14:LYS:N	2.35	0.73
38:BQ:11:ASN:CG	38:BQ:12:ARG:N	2.41	0.73
24:BA:2723:C:H4'	38:BQ:2:ARG:O	1.88	0.73
39:BR:76:LYS:HE3	39:BR:77:ALA:HB2	1.70	0.73
35:BN:76:ALA:HA	40:BS:77:PRO:CG	2.18	0.73
41:BT:59:ARG:HB3	41:BT:59:ARG:NH1	2.04	0.73
44:BW:60:ARG:HD3	44:BW:62:LYS:HZ3	1.52	0.73
44:BW:9:LEU:N	44:BW:9:LEU:HD12	2.03	0.73
32:BK:77:LEU:HD12	32:BK:142:VAL:CG1	2.17	0.73
3:AD:15:G:C6	3:AD:48:C:N4	2.55	0.73
24:BA:2121:G:H2'	24:BA:2122:U:C6	2.23	0.73
26:BC:59:ARG:HH11	26:BC:164:ARG:HG2	1.52	0.73
24:BA:2670:A:H5''	28:BE:206:LYS:NZ	2.03	0.73
12:AM:3:LYS:HE3	12:AM:77:PRO:HD3	1.69	0.73
26:BC:34:THR:O	26:BC:34:THR:HG22	1.88	0.73
1:AA:1048:G:O4'	1:AA:1215:G:H4'	1.87	0.73
1:AA:1049:U:H1'	1:AA:1201:A:O4'	1.87	0.73
1:AA:1142:G:H2'	1:AA:1143:G:H8	1.53	0.73
1:AA:122:G:N2	1:AA:123:C:H1'	2.04	0.73
1:AA:1468:A:H2'	1:AA:1469:G:C5'	2.18	0.73
1:AA:1520:G:HO2'	1:AA:1521:G:H8	1.36	0.73
1:AA:362:G:H8	14:AO:34:ARG:NH2	1.80	0.73
1:AA:510:A:N3	1:AA:543:C:H1'	2.03	0.73
1:AA:553:A:H2'	1:AA:554:C:H6	1.51	0.73
1:AA:652:U:H4'	1:AA:653:A:OP1	1.87	0.73
4:AE:102:LEU:HD12	4:AE:102:LEU:N	2.01	0.73
4:AE:14:GLY:O	4:AE:15:VAL:HG13	1.88	0.73
4:AE:80:ILE:HD11	4:AE:208:ILE:HG23	1.68	0.73
5:AF:152:ILE:HG22	5:AF:167:TRP:HB2	1.70	0.73
5:AF:76:VAL:O	5:AF:83:ARG:HG2	1.88	0.73
8:AI:41:GLU:HB3	8:AI:62:TRP:HE3	1.50	0.73
9:AJ:87:VAL:HG22	9:AJ:151:TYR:HB3	1.68	0.73
10:AK:93:VAL:O	10:AK:133:LEU:HG	1.89	0.73
11:AL:73:GLN:O	11:AL:77:ILE:HG13	1.88	0.73
12:AM:8:LEU:CD1	12:AM:94:VAL:HG11	2.18	0.73
13:AN:67:ASP:O	13:AN:71:LYS:HG2	1.86	0.73
1:AA:582:U:H5''	17:AR:68:ARG:HH12	1.52	0.73
17:AR:71:GLN:HB2	17:AR:78:TYR:CE1	2.24	0.73
19:AT:28:PRO:HB2	19:AT:33:GLY:O	1.88	0.73
20:AU:18:ARG:NH2	20:AU:21:LYS:HB2	2.02	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:B2:20:LYS:O	49:B2:23:LEU:HB2	1.87	0.73
52:B5:19:ARG:CZ	52:B5:41:PRO:HG3	2.17	0.73
24:BA:1534:G:N2	24:BA:1537:C:H5	1.85	0.73
24:BA:173:G:H21	24:BA:174:C:H1'	1.52	0.73
24:BA:1797:C:C2	24:BA:1798:U:C5	2.76	0.73
24:BA:290:G:OP2	24:BA:351:G:N2	2.21	0.73
24:BA:782:A:H5''	24:BA:783:A:OP1	1.87	0.73
24:BA:983:A:H2'	24:BA:984:A:C8	2.22	0.73
27:BD:138:VAL:HA	27:BD:165:ILE:CG2	2.18	0.73
24:BA:1566:A:N1	27:BD:215:LEU:HD13	2.03	0.73
27:BD:72:LYS:HD3	27:BD:75:ILE:HD12	1.68	0.73
28:BE:182:LEU:CD2	28:BE:184:VAL:HG13	2.18	0.73
30:BG:138:GLN:OE1	30:BG:152:LEU:HD12	1.88	0.73
30:BG:6:ALA:O	30:BG:9:ARG:HB3	1.89	0.73
31:BH:6:ARG:HD2	31:BH:66:GLY:HA2	1.69	0.73
33:BL:102:GLU:O	33:BL:106:GLU:HG3	1.88	0.73
35:BN:38:VAL:HA	35:BN:59:LYS:O	1.88	0.73
40:BS:33:LYS:HD3	40:BS:47:GLY:HA3	1.70	0.73
41:BT:94:ASN:HD22	42:BU:6:LYS:CE	2.00	0.73
46:BY:4:ARG:CG	46:BY:5:LEU:H	1.98	0.73
3:AD:9:A:C2	3:AD:46:G:H1'	2.23	0.73
26:BC:114:VAL:HA	26:BC:144:THR:O	1.87	0.73
1:AA:1011:G:H2'	1:AA:1012:U:H5'	1.69	0.73
1:AA:174:C:O2'	1:AA:175:C:H5'	1.88	0.73
1:AA:410:G:H1'	1:AA:432:A:N6	2.02	0.73
1:AA:610:G:C2'	1:AA:611:A:H5'	2.18	0.73
1:AA:967:C:H2'	1:AA:968:A:N7	2.03	0.73
3:AC:17:C:H5'	3:AC:18:G:O5'	1.87	0.73
5:AF:125:GLU:OE1	5:AF:190:ARG:HB2	1.87	0.73
8:AI:98:LEU:CD2	8:AI:101:ALA:HB2	2.17	0.73
15:AP:59:TYR:CE2	15:AP:60:VAL:HG23	2.24	0.73
51:B4:18:ALA:O	51:B4:21:SER:OG	2.04	0.73
24:BA:1163:G:C2	24:BA:1164:G:C8	2.76	0.73
24:BA:1222:C:O2'	24:BA:1223:C:H5'	1.89	0.73
24:BA:1270:C:H4'	24:BA:1271:G:H5''	1.68	0.73
24:BA:1275:A:N7	24:BA:1296:G:H1'	2.03	0.73
24:BA:1302:A:H5'	24:BA:1608:A:OP1	1.88	0.73
24:BA:1556:C:H2'	24:BA:1557:C:H6	1.53	0.73
24:BA:2652:C:H2'	24:BA:2653:U:O4'	1.89	0.73
24:BA:2720:U:H2'	24:BA:2720:U:O2	1.88	0.73
24:BA:2781:A:C3'	24:BA:2781:A:C8	2.71	0.73
24:BA:282:A:C5	24:BA:283:A:H4'	2.24	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2888:C:H2'	24:BA:2889:C:C6	2.22	0.73
24:BA:292:C:C6	24:BA:293:U:N3	2.56	0.73
24:BA:531:C:N3	41:BT:38:THR:HG22	2.03	0.73
24:BA:558:G:OP1	34:BM:112:LEU:HG	1.88	0.73
24:BA:563:G:N2	41:BT:34:LYS:HE2	2.04	0.73
24:BA:618:G:H2'	24:BA:618(A):C:C6	2.23	0.73
24:BA:817:C:H2'	24:BA:818:G:O4'	1.87	0.73
24:BA:917:A:C8	24:BA:918:A:H5''	2.23	0.73
24:BA:983:A:C2	24:BA:984:A:C2	2.77	0.73
28:BE:13:ARG:NH2	28:BE:20:ALA:CB	2.49	0.73
37:BP:75:THR:HG21	37:BP:88:GLY:O	1.86	0.73
40:BS:48:ILE:HG12	40:BS:49:VAL:O	1.88	0.73
43:BV:18:ARG:HH21	43:BV:18:ARG:HB2	1.53	0.73
43:BV:41:LYS:HZ3	43:BV:41:LYS:HB3	1.52	0.73
44:BW:63:LYS:HA	44:BW:63:LYS:NZ	2.02	0.73
1:AA:1148:U:H2'	1:AA:1148:U:O2	1.87	0.73
1:AA:195:A:H4'	22:AW:68:LYS:HZ3	1.52	0.73
1:AA:526:C:H42	1:AA:535:A:H2	1.35	0.73
1:AA:749:C:O2	1:AA:749:C:H2'	1.86	0.73
4:AE:42:ILE:HD11	4:AE:202:PRO:CB	2.17	0.73
4:AE:75:LYS:NZ	4:AE:75:LYS:HA	2.03	0.73
4:AE:77:ALA:HB2	4:AE:211:ILE:CD1	2.19	0.73
7:AH:63:ARG:HA	7:AH:66:MET:HG2	1.68	0.73
9:AJ:27:ILE:HG12	9:AJ:43:PHE:CD1	2.23	0.73
9:AJ:47:CYS:HA	9:AJ:50:ILE:CD1	2.18	0.73
13:AN:32:ILE:HD11	13:AN:68:ALA:O	1.88	0.73
14:AO:24:VAL:CG2	14:AO:97:ARG:HG2	2.17	0.73
15:AP:27:LYS:HD2	15:AP:31:LYS:HZ3	1.52	0.73
21:AV:33:THR:HG21	21:AV:49:ILE:HD12	1.69	0.73
22:AW:64:ASP:O	22:AW:67:ALA:HB3	1.88	0.73
48:B1:23:LYS:HE3	48:B1:52:ILE:HG12	1.71	0.73
51:B4:4:HIS:C	51:B4:4:HIS:CD2	2.62	0.73
24:BA:2017:U:O2'	51:B4:8:LYS:O	2.03	0.73
24:BA:140:A:C2	24:BA:1408:C:H1'	2.24	0.73
24:BA:1649:G:H21	38:BQ:107:ASP:CB	1.89	0.73
24:BA:1668:A:N3	24:BA:1669:A:N1	2.37	0.73
24:BA:1949:G:O2'	24:BA:1950:G:H5'	1.89	0.73
24:BA:1999:C:H2'	24:BA:2000:G:O5'	1.87	0.73
24:BA:2027:G:H1'	24:BA:2037:G:H22	1.52	0.73
24:BA:220:G:N2	24:BA:265:A:H61	1.85	0.73
24:BA:245:G:C5	24:BA:246:C:H5	2.06	0.73
3:AB:74:C:N4	24:BA:2556:C:O4'	2.21	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2791:C:H5	24:BA:2893:G:N7	1.84	0.73
24:BA:546:C:H2'	24:BA:547:A:N9	2.03	0.73
24:BA:627:A:H1'	24:BA:637:A:C6	2.23	0.73
24:BA:691:C:O2'	27:BD:45:ASN:ND2	2.22	0.73
24:BA:947:G:O5'	24:BA:947:G:H8	1.70	0.73
25:BB:51:G:C2'	25:BB:52:A:O5'	2.35	0.73
27:BD:60:ARG:HA	27:BD:62:TYR:CZ	2.23	0.73
29:BF:153:SER:OG	29:BF:190:GLU:HG2	1.87	0.73
30:BG:9:ARG:HD2	30:BG:10:LYS:NZ	2.03	0.73
30:BG:55:LYS:HG3	30:BG:148:MET:CB	2.19	0.73
24:BA:1081:U:H4'	33:BL:122:ALA:HB1	1.70	0.73
34:BM:95:PRO:HA	34:BM:98:VAL:HG23	1.70	0.73
36:BO:122:PRO:CB	36:BO:138:LEU:N	2.51	0.73
29:BF:31:HIS:ND1	36:BO:14:LYS:HE3	2.03	0.73
37:BP:137:TYR:CE2	46:BY:124:ILE:HD11	2.23	0.73
39:BR:6:ALA:HA	39:BR:9:ARG:NH1	2.04	0.73
40:BS:79:HIS:HB2	40:BS:82:LEU:HB2	1.70	0.73
41:BT:62:ILE:HG22	41:BT:63:VAL:N	2.01	0.73
42:BU:62:LEU:CD1	42:BU:98:GLU:HG2	2.18	0.73
45:BX:47:LYS:HZ2	45:BX:51:VAL:HG21	1.53	0.73
3:AD:41:C:H5'	3:AD:41:C:H6	1.54	0.73
1:AA:1005:A:H2'	1:AA:1006:C:H5'	1.70	0.73
1:AA:266:G:H2'	19:AT:67:LYS:HZ2	1.50	0.73
1:AA:598:U:O2'	10:AK:94:TYR:HB3	1.87	0.73
1:AA:730:G:N7	1:AA:731:G:H1'	2.03	0.73
1:AA:923:A:OP1	7:AH:21:ALA:HB2	1.88	0.73
4:AE:31:TYR:HE2	4:AE:200:ILE:HG21	1.54	0.73
4:AE:84:GLU:HG2	4:AE:234:PRO:CD	2.16	0.73
4:AE:56:ARG:HH11	4:AE:56:ARG:CB	2.01	0.73
5:AF:84:ILE:CG1	5:AF:101:LEU:HD22	2.18	0.73
5:AF:85:ARG:HH21	5:AF:89:GLU:CB	2.01	0.73
5:AF:88:ARG:O	5:AF:91:LEU:HB3	1.89	0.73
6:AG:173:TRP:HA	6:AG:186:LEU:HD12	1.70	0.73
6:AG:82:ALA:HB3	6:AG:89:THR:CG2	2.17	0.73
7:AH:81:GLU:N	7:AH:81:GLU:CD	2.41	0.73
8:AI:14:LEU:CD1	8:AI:18:GLN:HB3	2.18	0.73
10:AK:8:ASP:O	10:AK:12:ARG:HG3	1.89	0.73
12:AM:45:ARG:HH11	12:AM:45:ARG:CB	1.98	0.73
14:AO:104:VAL:HG12	14:AO:105:TYR:CD1	2.24	0.73
1:AA:1047:G:H5''	16:AQ:4:LYS:HD3	1.70	0.73
12:AM:65:LEU:HD12	16:AQ:56:VAL:CG2	2.15	0.73
17:AR:15:PHE:O	17:AR:17:ARG:N	2.21	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AS:54:GLU:C	18:AS:54:GLU:CD	2.46	0.73
24:BA:2419:U:O4	54:B7:31:HIS:HE1	1.69	0.73
54:B7:3:LYS:HE2	54:B7:59:LYS:CE	2.19	0.73
54:B7:5:LYS:O	54:B7:7:HIS:N	2.22	0.73
24:BA:1075:C:O2	24:BA:1075:C:H2'	1.88	0.73
24:BA:1101:U:OP1	24:BA:1101:U:H6	1.70	0.73
24:BA:1709:U:H1'	24:BA:2860:A:H1'	1.71	0.73
24:BA:1814:G:C2	24:BA:1815:A:N6	2.56	0.73
3:AC:75:C:OP1	24:BA:2602:A:OP1	2.06	0.73
24:BA:2808:U:C2	24:BA:2892:A:N6	2.56	0.73
24:BA:2839:G:O2'	24:BA:2840:C:H5'	1.88	0.73
24:BA:373:U:O2	24:BA:400:G:N2	2.22	0.73
24:BA:449:A:O2'	24:BA:450:G:H5'	1.89	0.73
24:BA:556:G:H2'	24:BA:557:U:C6	2.23	0.73
24:BA:808:G:H2'	24:BA:809:G:C8	2.24	0.73
24:BA:881:G:N2	24:BA:896:A:H61	1.85	0.73
24:BA:942:G:N1	24:BA:943:U:O4	2.22	0.73
27:BD:263:ARG:O	27:BD:266:SER:HB3	1.88	0.73
27:BD:5:LYS:CB	27:BD:29:PRO:HD3	2.19	0.73
28:BE:7:VAL:HG13	28:BE:194:GLY:O	1.88	0.73
28:BE:44:TYR:HD2	28:BE:45:THR:H	1.37	0.73
28:BE:49:LEU:HD21	28:BE:75:VAL:C	2.09	0.73
28:BE:49:LEU:HD13	28:BE:76:ARG:O	1.87	0.73
30:BG:128:ARG:HH12	30:BG:162:THR:HA	1.54	0.73
30:BG:32:PRO:O	30:BG:172:LEU:HD22	1.87	0.73
31:BH:127:GLU:HG3	31:BH:130:ARG:HB2	1.69	0.73
31:BH:140:LYS:HA	31:BH:143:GLN:NE2	2.03	0.73
31:BH:7:LEU:HD22	31:BH:65:HIS:NE2	2.04	0.73
33:BL:10:LEU:CD1	33:BL:12:LEU:HD11	2.16	0.73
34:BM:55:VAL:HG21	34:BM:127:ASP:CA	2.18	0.73
35:BN:112:MET:HA	35:BN:115:VAL:CG2	2.18	0.73
37:BP:26:TYR:CD1	37:BP:27:VAL:N	2.49	0.73
39:BR:52:SER:HB3	39:BR:69:VAL:HG13	1.70	0.73
40:BS:56:GLY:O	40:BS:61:PHE:HB3	1.89	0.73
40:BS:85:LYS:HB3	40:BS:85:LYS:HZ2	1.53	0.73
34:BM:4:TYR:HD2	41:BT:100:VAL:HG11	1.50	0.73
42:BU:28:GLU:C	42:BU:30:GLY:H	1.92	0.73
43:BV:5:ALA:HB1	43:BV:50:VAL:HG12	1.68	0.73
43:BV:98:LYS:HB3	43:BV:98:LYS:HZ2	1.52	0.73
44:BW:57:LEU:HD23	44:BW:58:HIS:N	2.04	0.73
46:BY:28:MET:SD	46:BY:29:TYR:N	2.62	0.73
32:BK:81:VAL:HG13	32:BK:144:VAL:CG2	2.15	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BK:81:VAL:HG22	32:BK:144:VAL:HG22	1.71	0.73
24:BA:2132:U:H5''	24:BA:2133:G:H5'	1.69	0.73
45:BX:42:VAL:CG2	45:BX:61:ILE:HG21	2.18	0.73
1:AA:116:A:OP2	1:AA:289:G:H5''	1.88	0.73
1:AA:38:G:N3	1:AA:397:A:N6	2.35	0.73
1:AA:873:A:H5'	1:AA:874:G:OP2	1.89	0.73
1:AA:886:G:C2'	1:AA:887:G:H5'	2.18	0.73
1:AA:8:A:H4'	1:AA:9:G:OP1	1.88	0.73
1:AA:953:G:H2'	1:AA:954:G:H8	1.53	0.73
1:AA:959:A:H1'	1:AA:985:C:H1'	1.70	0.73
4:AE:72:GLY:HA3	4:AE:81:VAL:HG21	1.71	0.73
8:AI:53:ALA:HB1	8:AI:86:ARG:HH11	1.52	0.73
8:AI:95:GLU:OE2	8:AI:96:PRO:HD3	1.88	0.73
10:AK:104:ARG:NE	10:AK:138:TRP:CZ3	2.57	0.73
11:AL:115:GLY:O	11:AL:117:HIS:N	2.21	0.73
1:AA:950:U:H5''	15:AP:102:ARG:NH2	2.01	0.73
19:AT:58:GLU:O	19:AT:58:GLU:OE1	2.07	0.73
21:AV:62:ILE:HD11	21:AV:67:VAL:HG13	1.70	0.73
50:B3:59:PHE:N	50:B3:62:ARG:CZ	2.52	0.73
51:B4:17:ASP:O	51:B4:21:SER:OG	2.06	0.73
24:BA:1203:G:O6	24:BA:1240:U:H2'	1.86	0.73
24:BA:1238:G:C2'	24:BA:1239:G:H5'	2.18	0.73
24:BA:1363:C:O2'	24:BA:1809:A:C8	2.41	0.73
24:BA:1394:U:H4'	24:BA:1603:A:C5'	2.18	0.73
24:BA:1609:A:H62	24:BA:1616:A:H2	1.34	0.73
24:BA:1716:U:O2	24:BA:1716:U:C2'	2.36	0.73
24:BA:1908:C:N4	24:BA:1923:U:N3	2.37	0.73
24:BA:1955:U:H2'	24:BA:1956:U:OP1	1.88	0.73
24:BA:2010:G:C2'	24:BA:2011:U:H5'	2.19	0.73
24:BA:2225:A:H5'	24:BA:2226:C:H6	1.54	0.73
24:BA:826:U:OP1	24:BA:2428:G:H3'	1.88	0.73
24:BA:247:G:C5	24:BA:249:C:O2	2.41	0.73
3:AB:63:G:C1'	24:BA:2482:G:H4'	2.19	0.73
24:BA:2586:C:H2'	24:BA:2587:A:C8	2.23	0.73
24:BA:351:G:C1'	24:BA:352:G:N7	2.52	0.73
24:BA:360:G:O2'	24:BA:361:G:H5'	1.89	0.73
24:BA:532:A:C8	24:BA:561:G:N2	2.57	0.73
24:BA:532:A:H62	41:BT:45:TYR:HH	1.34	0.73
24:BA:630:G:H2'	24:BA:632:A:OP2	1.88	0.73
24:BA:713:G:N3	24:BA:713:G:H2'	2.03	0.73
24:BA:192:C:O2	24:BA:802:A:H1'	1.89	0.73
24:BA:848:G:H21	24:BA:933:A:H1'	1.51	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1799:G:C8	27:BD:268:ARG:NH1	2.57	0.73
27:BD:42:GLY:CA	27:BD:60:ARG:HH22	2.01	0.73
28:BE:113:PHE:HA	28:BE:158:GLY:C	2.08	0.73
30:BG:119:GLY:C	30:BG:120:LEU:HD23	2.08	0.73
30:BG:146:TYR:HE1	30:BG:149:VAL:HA	1.52	0.73
34:BM:103:VAL:HG22	34:BM:104:LYS:H	1.52	0.73
34:BM:122:VAL:HG23	34:BM:123:TYR:N	2.03	0.73
35:BN:24:VAL:HG21	35:BN:26:LYS:CE	2.17	0.73
35:BN:64:ARG:NH1	35:BN:67:LYS:N	2.25	0.73
24:BA:1665:A:H5''	35:BN:65:THR:O	1.88	0.73
37:BP:50:ALA:HB2	37:BP:125:LEU:HD11	1.70	0.73
39:BR:28:VAL:HG22	39:BR:29:PHE:N	2.01	0.73
40:BS:7:ILE:O	40:BS:11:GLU:CD	2.27	0.73
41:BT:108:GLU:HB2	41:BT:111:GLU:OE1	1.88	0.73
41:BT:58:ARG:O	41:BT:62:ILE:HG13	1.89	0.73
47:BZ:56:ASP:OD1	47:BZ:58:THR:HB	1.88	0.73
32:BK:94:ALA:HB1	32:BK:114:LEU:CD1	2.19	0.73
26:BC:53:ARG:O	26:BC:55:ASP:N	2.21	0.73
26:BC:63:SER:O	26:BC:65:PRO:HD3	1.88	0.73
24:BA:1583:A:C5'	24:BA:1585:C:H5'	2.18	0.73
2:A1:20:G:C2'	2:A1:21:G:H5'	2.19	0.73
3:AD:39:U:H2'	3:AD:40:C:C6	2.23	0.73
30:BG:51:ARG:H	30:BG:51:ARG:HD2	1.53	0.73
1:AA:1055:A:N3	1:AA:1055:A:H2'	2.03	0.73
1:AA:109:A:N7	1:AA:326:G:N3	2.37	0.73
1:AA:1317:C:H6	1:AA:1317:C:O5'	1.72	0.73
1:AA:270:A:H2'	1:AA:271:C:C6	2.23	0.73
1:AA:541:G:C4'	6:AG:42:GLN:HB2	2.18	0.73
1:AA:936:C:O2'	1:AA:937:A:H5'	1.87	0.73
5:AF:3:ASN:CG	5:AF:4:LYS:H	1.89	0.73
7:AH:145:LYS:HA	7:AH:148:VAL:CG2	2.19	0.73
7:AH:86:ALA:HB3	7:AH:130:ASN:ND2	2.03	0.73
10:AK:95:VAL:HB	10:AK:99:GLU:OE1	1.87	0.73
22:AW:49:ALA:HB3	22:AW:99:LEU:CD1	2.19	0.73
50:B3:59:PHE:HD1	50:B3:60:GLN:H	1.35	0.73
24:BA:467:G:OP1	53:B6:33:ARG:NH1	2.21	0.73
54:B7:7:HIS:O	54:B7:11:LYS:HG3	1.87	0.73
24:BA:1197:G:C5	24:BA:1198:U:C5	2.76	0.73
24:BA:146:G:C3'	24:BA:147:U:H5''	2.19	0.73
24:BA:1530:G:H2'	24:BA:1531:C:N1	2.03	0.73
24:BA:1702:G:C6	24:BA:1703:G:N7	2.57	0.73
24:BA:1902:C:H2'	24:BA:1903:G:H5'	1.71	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1919:A:OP2	24:BA:1920:C:H5	1.72	0.73
24:BA:231:C:H42	24:BA:232:G:N2	1.87	0.73
24:BA:2284:C:O2'	24:BA:2325:G:N2	2.22	0.73
24:BA:2497:A:O2'	24:BA:2498:C:O5'	2.06	0.73
24:BA:2520:C:C5	24:BA:2567:G:C4	2.76	0.73
24:BA:28:A:H2'	24:BA:29:U:H5'	1.69	0.73
24:BA:648:G:H2'	24:BA:649:G:C8	2.24	0.73
24:BA:771:G:C6	24:BA:772:C:N4	2.57	0.73
24:BA:792:G:H21	24:BA:2072:G:H1'	1.53	0.73
24:BA:997:G:H5''	41:BT:92:ARG:HD2	1.69	0.73
25:BB:54:G:O2'	25:BB:55:U:H5'	1.89	0.73
27:BD:146:GLU:O	27:BD:189:CYS:HB3	1.88	0.73
29:BF:36:VAL:HG11	29:BF:183:VAL:CG1	2.19	0.73
30:BG:26:GLN:HG2	30:BG:29:TRP:CZ3	2.24	0.73
24:BA:2745:C:H1'	31:BH:143:GLN:HG2	1.71	0.73
33:BL:9:LYS:CA	33:BL:56:GLU:HG2	2.18	0.73
33:BL:11:GLN:HE22	33:BL:73:PRO:HG2	1.53	0.73
34:BM:86:PRO:HD2	34:BM:89:LYS:HD2	1.71	0.73
35:BN:10:VAL:HG22	35:BN:12:ASP:OD1	1.89	0.73
35:BN:39:ILE:C	35:BN:59:LYS:HZ1	1.92	0.73
36:BO:92:GLU:H	36:BO:125:VAL:HG11	1.54	0.73
38:BQ:8:ARG:HE	38:BQ:10:LEU:HD11	1.49	0.73
39:BR:26:LEU:HD11	39:BR:37:ALA:HB1	1.70	0.73
24:BA:2848:G:OP2	40:BS:99:LEU:HD12	1.88	0.73
41:BT:110:VAL:HG12	41:BT:111:GLU:N	2.03	0.73
41:BT:89:GLU:CB	42:BU:52:VAL:N	2.44	0.73
45:BX:19:LYS:NZ	45:BX:39:VAL:O	2.21	0.73
46:BY:6:LYS:HG2	46:BY:7:ALA:H	1.54	0.73
32:BK:112:LYS:N	32:BK:112:LYS:HD2	2.01	0.73
1:AA:1269:A:H2'	1:AA:1270:C:H4'	1.70	0.73
1:AA:1310:G:C8	21:AV:2:PRO:HD3	2.24	0.73
1:AA:1413:A:O2'	1:AA:1414:U:C5'	2.36	0.73
1:AA:440:A:H3'	1:AA:442:C:H6	1.53	0.73
3:AD:74:C:P	50:B3:22:ILE:HG12	2.27	0.73
4:AE:71:VAL:CG1	4:AE:73:THR:HG23	2.19	0.73
5:AF:120:VAL:HG21	5:AF:137:ALA:CB	2.18	0.73
5:AF:156:ARG:HB3	5:AF:193:TYR:CD1	2.24	0.73
11:AL:79:LEU:HD13	11:AL:101:PHE:CB	2.18	0.73
1:AA:716:A:C1'	13:AN:118:GLY:HA2	2.15	0.73
13:AN:85:ARG:HH11	13:AN:85:ARG:HG3	1.53	0.73
22:AW:17:ARG:O	22:AW:20:LEU:HB2	1.89	0.73
24:BA:1158:C:C4'	49:B2:32:GLN:HE21	2.01	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:B2:40:THR:HG22	49:B2:42:ALA:N	2.04	0.73
50:B3:40:HIS:HB3	50:B3:41:PRO:CD	2.19	0.73
52:B5:16:CYS:SG	52:B5:19:ARG:NH1	2.61	0.73
52:B5:20:ASN:HD22	52:B5:41:PRO:CB	1.98	0.73
24:BA:179:G:H5'	53:B6:32:LYS:HZ3	1.54	0.73
53:B6:34:ARG:HB3	53:B6:34:ARG:NH1	2.01	0.73
24:BA:1071:G:C2'	24:BA:1072:C:H5'	2.19	0.73
24:BA:1655:A:H2'	24:BA:1656:C:O4'	1.89	0.73
24:BA:1707:G:H2'	24:BA:1708:C:H6	1.54	0.73
24:BA:1851:U:H2'	24:BA:1852:C:C5	2.24	0.73
24:BA:1655:A:N6	24:BA:2005:A:H1'	2.04	0.73
24:BA:572:A:H2	24:BA:2033:A:N1	1.86	0.73
24:BA:2073:C:H2'	24:BA:2074:U:O4'	1.88	0.73
24:BA:2389:G:H5''	24:BA:2390:U:O5'	1.89	0.73
24:BA:2711:A:OP1	24:BA:2712(A):A:OP1	2.07	0.73
24:BA:2733:A:H2'	24:BA:2734:A:O4'	1.88	0.73
24:BA:298:G:N1	24:BA:338:G:O2'	2.22	0.73
24:BA:962:G:C2'	24:BA:963:U:C6	2.69	0.73
24:BA:995:C:H42	34:BM:3:THR:HA	1.54	0.73
25:BB:73:A:H2'	25:BB:74:U:C6	2.23	0.73
24:BA:1775:U:C2	27:BD:208:LYS:HD2	2.23	0.73
24:BA:1788:C:H2'	27:BD:222:ARG:HE	1.54	0.73
28:BE:13:ARG:CZ	28:BE:20:ALA:HB3	2.19	0.73
24:BA:2745:C:O2'	31:BH:143:GLN:HG3	1.88	0.73
31:BH:8:PRO:CD	31:BH:69:ARG:HH11	2.02	0.73
24:BA:2684:U:O2'	35:BN:67:LYS:HG3	1.88	0.73
35:BN:63:VAL:CG2	35:BN:81:ASP:HA	2.17	0.73
37:BP:34:LEU:HA	37:BP:131:ILE:CG1	2.11	0.73
39:BR:39:ILE:C	39:BR:40:ILE:HD12	2.09	0.73
41:BT:108:GLU:O	41:BT:109:LEU:C	2.26	0.73
41:BT:99:ALA:HA	41:BT:106:PHE:HB2	1.69	0.73
46:BY:141:VAL:HG13	46:BY:142:SER:H	1.54	0.73
32:BK:127:VAL:HG13	32:BK:141:LYS:N	2.03	0.73
3:AD:47:U:C2'	3:AD:48:C:H5''	2.15	0.73
3:AD:62:C:C5'	26:BC:52:ARG:HD3	2.19	0.73
15:AP:120:LYS:O	15:AP:121:LYS:HB2	1.88	0.73
1:AA:1068:G:N7	1:AA:1094:G:N7	2.36	0.73
1:AA:1126:U:H2'	1:AA:1127:G:H8	1.54	0.73
1:AA:1493:A:N1	3:AB:36:A:O2'	2.22	0.73
1:AA:191(C):G:H2'	1:AA:191(D):U:H6	1.54	0.73
1:AA:254:G:O2'	1:AA:255:G:H5'	1.89	0.73
3:AC:11:C:H2'	3:AC:12:U:C6	2.24	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:115:LEU:HD13	4:AE:145:LEU:CB	2.19	0.73
5:AF:120:VAL:CG1	5:AF:133:ALA:HB1	2.19	0.73
5:AF:31:HIS:O	5:AF:34:LEU:HB3	1.89	0.73
6:AG:12:CYS:HB3	6:AG:33:MET:CE	2.18	0.73
6:AG:152:SER:O	6:AG:155:LEU:HD22	1.89	0.73
6:AG:200:GLU:CG	6:AG:201:GLN:HE21	2.02	0.73
6:AG:59:ARG:HA	6:AG:59:ARG:CZ	2.18	0.73
7:AH:109:ILE:HG23	7:AH:110:LEU:HD23	1.71	0.73
7:AH:7:GLU:HG2	7:AH:112:LEU:HD21	1.71	0.73
7:AH:28:PHE:O	7:AH:47:LYS:HA	1.89	0.73
7:AH:82:VAL:HG21	7:AH:137:GLU:HB3	1.70	0.73
8:AI:26:ILE:HG22	8:AI:30:LEU:HD11	1.70	0.73
8:AI:37:VAL:HA	8:AI:65:VAL:CG1	2.19	0.73
9:AJ:50:ILE:HG21	9:AJ:58:PRO:HA	1.71	0.73
12:AM:11:PHE:CE1	16:AQ:55:GLY:HA3	2.24	0.73
13:AN:21:ILE:HA	13:AN:30:VAL:HG22	1.71	0.73
15:AP:14:ARG:CG	15:AP:17:VAL:HG23	2.19	0.73
15:AP:19:LEU:HD12	15:AP:20:THR:N	2.03	0.73
16:AQ:26:ARG:CB	16:AQ:43:CYS:HB2	2.18	0.73
21:AV:15:LEU:HG	21:AV:16:LEU:HD13	1.71	0.73
52:B5:48:VAL:HG13	52:B5:49:HIS:N	2.00	0.73
24:BA:688:U:OP2	53:B6:2:LYS:HE2	1.88	0.73
53:B6:42:LEU:C	53:B6:44:PRO:HD2	2.07	0.73
24:BA:125:G:O3'	53:B6:47:ARG:NH1	2.22	0.73
24:BA:1055:G:N3	24:BA:1084:A:H2	1.86	0.73
24:BA:1203:G:C6	24:BA:1240:U:O2	2.35	0.73
24:BA:1471:A:H2'	24:BA:1472:A:H5'	1.69	0.73
24:BA:1729:A:N7	24:BA:1731:G:O6	2.21	0.73
24:BA:1798:U:C5'	27:BD:257:LEU:HB2	2.18	0.73
24:BA:2097:C:O2'	24:BA:2098:U:H5'	1.88	0.73
24:BA:2396:G:H4'	50:B3:27:THR:HA	1.69	0.73
24:BA:2450:A:OP1	24:BA:2497:A:N7	2.22	0.73
24:BA:2459:A:C2	24:BA:2460:U:H1'	2.23	0.73
24:BA:245:G:C4	24:BA:246:C:H5	2.07	0.73
24:BA:2619:C:H5''	28:BE:152:LYS:HB2	1.69	0.73
24:BA:2626:C:H2'	24:BA:2627:G:H8	1.51	0.73
24:BA:754:C:C2'	24:BA:755:C:H5'	2.19	0.73
24:BA:882:G:H1'	24:BA:896:A:N6	2.04	0.73
27:BD:175:LEU:C	27:BD:182:LEU:HD23	2.10	0.73
28:BE:109:LYS:HG3	28:BE:191:PRO:CG	2.18	0.73
28:BE:119:ARG:HE	28:BE:120:TRP:N	1.87	0.73
28:BE:45:THR:OG1	28:BE:46:ALA:N	2.21	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2787:C:C5'	28:BE:64:LYS:HD2	2.18	0.73
28:BE:81:ILE:HG22	28:BE:82:ARG:HG2	1.70	0.73
29:BF:12:LEU:HB3	29:BF:127:GLU:HB3	1.71	0.73
34:BM:102:ALA:O	34:BM:105:GLY:CA	2.36	0.73
35:BN:70:LYS:HD3	35:BN:107:ARG:NH1	2.04	0.73
36:BO:99:LEU:HD13	36:BO:101:VAL:HG22	1.69	0.73
37:BP:134:ARG:HH21	37:BP:137:TYR:HD1	1.36	0.73
37:BP:42:ILE:O	37:BP:94:VAL:HB	1.87	0.73
41:BT:22:LYS:H	41:BT:24:TYR:HE1	1.37	0.73
41:BT:40:PHE:HB3	42:BU:78:LYS:CD	2.19	0.73
43:BV:81:ALA:HB1	43:BV:98:LYS:O	1.89	0.73
45:BX:12:THR:C	45:BX:73:ARG:CZ	2.56	0.73
46:BY:78:LYS:NZ	46:BY:78:LYS:HB3	2.04	0.73
32:BK:146:ALA:C	32:BK:148:GLU:N	2.42	0.73
1:AA:1431:C:N4	1:AA:1469:G:H1	1.86	0.72
1:AA:449:C:C2	1:AA:450:G:C1'	2.65	0.72
1:AA:777:A:H2'	1:AA:778:G:C8	2.23	0.72
1:AA:986:A:H1'	21:AV:54:GLY:O	1.89	0.72
3:AB:74:C:C5	24:BA:2556:C:O4'	2.42	0.72
5:AF:38:ARG:CB	5:AF:94:LEU:HD21	2.19	0.72
7:AH:125:SER:C	7:AH:127:ASN:H	1.92	0.72
7:AH:89:ILE:CG1	7:AH:131:ILE:HD12	2.17	0.72
8:AI:23:LYS:O	8:AI:26:ILE:CB	2.36	0.72
13:AN:95:ILE:HG23	13:AN:98:LEU:HD12	1.70	0.72
50:B3:23:GLU:C	50:B3:25:TYR:H	1.91	0.72
36:BO:45:LEU:HD13	54:B7:59:LYS:HZ1	1.54	0.72
24:BA:1025:G:H1'	24:BA:1134:G:C4'	2.19	0.72
24:BA:1308:A:H2'	24:BA:1309:G:O4'	1.89	0.72
24:BA:1341:U:N3	24:BA:1398:C:H5'	2.02	0.72
24:BA:1513:C:N4	24:BA:1514:U:O4	2.22	0.72
24:BA:1530:G:H3'	24:BA:1531:C:C6	2.24	0.72
24:BA:1557:C:C2	24:BA:1558:A:N7	2.57	0.72
24:BA:1299:G:H1	24:BA:1639:U:H3'	1.54	0.72
24:BA:2056:G:H2'	24:BA:2056:G:N3	2.02	0.72
3:AD:76:A:H2'	24:BA:2432:A:O2'	1.89	0.72
24:BA:2447:G:N7	24:BA:2500:U:H2'	2.04	0.72
24:BA:2569:G:C2	24:BA:2570:G:N7	2.57	0.72
24:BA:2597:G:O4'	27:BD:242:ARG:NE	2.21	0.72
24:BA:2662:A:H2'	24:BA:2663:G:H5'	1.71	0.72
24:BA:270(C):C:O2'	24:BA:270(D):C:H5'	1.88	0.72
24:BA:52:A:H2'	24:BA:53:A:C8	2.14	0.72
24:BA:672:C:H2'	24:BA:673:C:H6	1.53	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:718:A:H3'	24:BA:719:C:C6	2.24	0.72
24:BA:725:G:C6	24:BA:726:G:N2	2.54	0.72
24:BA:775:G:H5'	24:BA:777:A:C1'	2.18	0.72
24:BA:2597:G:C1'	27:BD:242:ARG:NH2	2.52	0.72
24:BA:1804:C:H4'	27:BD:250:TRP:CZ2	2.24	0.72
27:BD:84:TYR:HB3	27:BD:91:ARG:HG3	1.71	0.72
28:BE:115:GLY:HA2	28:BE:157:ALA:HA	1.71	0.72
28:BE:93:VAL:HG12	28:BE:177:PRO:O	1.88	0.72
31:BH:11:VAL:HG13	31:BH:15:VAL:CG1	2.18	0.72
39:BR:69:VAL:O	39:BR:72:ALA:HB3	1.88	0.72
24:BA:2876:G:C4'	40:BS:1:MET:H2	2.00	0.72
40:BS:54:ARG:HG2	40:BS:100:TYR:CB	2.14	0.72
40:BS:92:GLY:C	40:BS:93:ARG:HE	1.92	0.72
41:BT:32:PHE:CD1	41:BT:32:PHE:N	2.55	0.72
24:BA:1152:C:O2'	41:BT:80:ILE:HD12	1.87	0.72
41:BT:88:ILE:HD13	41:BT:88:ILE:H	1.50	0.72
43:BV:36:LEU:HD11	43:BV:47:VAL:HG21	1.71	0.72
44:BW:32:PRO:HA	44:BW:77:LYS:CD	2.17	0.72
45:BX:97:ARG:HA	45:BX:101:LYS:CG	2.17	0.72
46:BY:151:HIS:CB	46:BY:168:GLU:HG2	2.18	0.72
46:BY:73:GLN:O	46:BY:74:VAL:HG23	1.89	0.72
26:BC:118:ASP:OD1	26:BC:119:VAL:HG13	1.86	0.72
1:AA:842:C:H4'	1:AA:848:C:N3	2.05	0.72
1:AA:959:A:H3'	1:AA:960:U:C5'	2.19	0.72
3:AC:74:C:N4	47:BZ:4:LYS:NZ	2.38	0.72
4:AE:101:MET:CA	4:AE:108:ILE:HG13	2.18	0.72
4:AE:144:ARG:O	4:AE:147:LYS:HB3	1.89	0.72
5:AF:15:THR:CG2	5:AF:181:ASN:HA	2.16	0.72
8:AI:24:GLU:O	8:AI:27:GLN:HB2	1.88	0.72
10:AK:114:THR:HA	10:AK:131:GLY:HA3	1.72	0.72
14:AO:93:LEU:O	14:AO:96:VAL:HG23	1.88	0.72
18:AS:6:LEU:CD2	18:AS:17:TYR:HD2	2.03	0.72
20:AU:53:ARG:HG2	20:AU:63:GLN:HE21	1.53	0.72
22:AW:51:GLU:HB3	22:AW:54:LYS:HZ2	1.52	0.72
22:AW:87:LYS:HE3	22:AW:87:LYS:CA	2.19	0.72
48:B1:51:GLN:O	48:B1:55:LEU:HD13	1.88	0.72
54:B7:39:LYS:HB3	54:B7:39:LYS:HZ3	1.54	0.72
24:BA:1203:G:H1	24:BA:1206:G:H1	1.35	0.72
24:BA:1453:A:C6	24:BA:1454:U:H1'	2.23	0.72
24:BA:1445:C:O2	24:BA:1466:G:N2	2.22	0.72
24:BA:1539:G:N7	24:BA:1540:G:N7	2.37	0.72
24:BA:1817:G:C2'	24:BA:1818:U:H5'	2.19	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2208:U:H1'	24:BA:2217:G:N1	2.03	0.72
24:BA:2307:G:H3'	24:BA:2308:G:C4'	2.20	0.72
24:BA:2433:A:H2'	24:BA:2433:A:N3	2.03	0.72
24:BA:2433:A:OP2	24:BA:2433:A:H3'	1.88	0.72
24:BA:2054:A:H62	24:BA:2577:A:H61	1.36	0.72
24:BA:2687:U:O2	24:BA:2688:U:H6	1.71	0.72
24:BA:2853:C:H2'	24:BA:2854:G:H8	1.53	0.72
24:BA:361:G:H2'	24:BA:362:U:O4'	1.89	0.72
24:BA:453:C:H4'	24:BA:457:A:N6	2.04	0.72
24:BA:455:C:C4'	24:BA:456:C:OP1	2.36	0.72
24:BA:71:A:N3	24:BA:73:A:C6	2.57	0.72
25:BB:84:C:H2'	25:BB:85:G:H5''	1.70	0.72
30:BG:125:PHE:HA	30:BG:132:ASN:CB	2.19	0.72
31:BH:29:PRO:HD3	31:BH:79:VAL:HA	1.71	0.72
33:BL:10:LEU:HD13	33:BL:27:LEU:CD2	2.19	0.72
24:BA:1080:C:O2'	33:BL:126:MET:HG2	1.89	0.72
33:BL:58:THR:HG23	33:BL:60:TYR:HB2	1.71	0.72
34:BM:115:ARG:HA	34:BM:118:LYS:HD2	1.71	0.72
35:BN:64:ARG:HH11	35:BN:67:LYS:H	0.77	0.72
36:BO:88:LEU:CG	36:BO:124:LYS:HZ1	2.01	0.72
36:BO:23:PRO:HG2	36:BO:29:LYS:N	2.05	0.72
37:BP:26:TYR:H	37:BP:102:VAL:HB	1.51	0.72
39:BR:42:ASP:C	39:BR:44:LYS:H	1.92	0.72
39:BR:17:ARG:NH2	39:BR:89:ARG:HB2	2.04	0.72
42:BU:19:LYS:O	42:BU:96:ILE:HD11	1.88	0.72
45:BX:86:ARG:HG2	45:BX:91:GLU:CB	2.18	0.72
46:BY:6:LYS:HD2	46:BY:35:ARG:HD3	1.70	0.72
46:BY:98:MET:O	46:BY:126:VAL:HA	1.89	0.72
32:BK:114:LEU:HD22	32:BK:130:TYR:CB	2.19	0.72
24:BA:2110:G:H2'	24:BA:2120:G:C5'	2.19	0.72
24:BA:2115:G:H5''	24:BA:2116:G:OP2	1.89	0.72
26:BC:22:ILE:HD13	26:BC:190:ARG:HH12	1.54	0.72
26:BC:171:ILE:HD13	26:BC:192:PHE:HZ	1.53	0.72
9:AJ:132:GLY:O	9:AJ:136:LYS:CB	2.38	0.72
3:AD:52:G:N2	3:AD:53:G:H1'	2.04	0.72
1:AA:1113:C:H6	1:AA:1113:C:O5'	1.72	0.72
1:AA:1253:G:H21	1:AA:1254:C:H1'	1.55	0.72
1:AA:1441:G:H1'	1:AA:1461:G:H22	1.54	0.72
1:AA:1512:U:H2'	1:AA:1513:A:C8	2.23	0.72
1:AA:819:A:C2	1:AA:1529:G:O6	2.42	0.72
1:AA:283:C:N3	1:AA:284:G:C8	2.57	0.72
1:AA:507:C:H2'	1:AA:508:C:H5	1.54	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:171:ALA:O	4:AE:174:VAL:HB	1.88	0.72
4:AE:220:ASP:O	4:AE:224:GLN:HG3	1.89	0.72
5:AF:140:ARG:HA	5:AF:143:GLU:HB2	1.71	0.72
6:AG:58:LEU:HD13	6:AG:59:ARG:NH1	2.04	0.72
7:AH:63:ARG:O	7:AH:66:MET:HG2	1.88	0.72
10:AK:36:LEU:HD12	10:AK:48:TYR:CB	2.19	0.72
11:AL:96:LEU:O	11:AL:100:GLY:HA3	1.88	0.72
1:AA:964:A:H1'	12:AM:55:LYS:NZ	2.04	0.72
18:AS:41:PRO:O	18:AS:43:LYS:HD2	1.88	0.72
20:AU:53:ARG:HA	20:AU:63:GLN:HE21	1.53	0.72
21:AV:5:LEU:HD13	21:AV:9:VAL:HG13	1.71	0.72
22:AW:43:LEU:CD1	22:AW:55:ILE:HD11	2.19	0.72
49:B2:50:VAL:CG1	49:B2:53:LEU:HD12	2.16	0.72
55:B8:16:VAL:HG13	55:B8:16:VAL:O	1.87	0.72
24:BA:1270:C:C4'	24:BA:1271:G:C5'	2.67	0.72
24:BA:1299:G:H5'	24:BA:1301:A:H1'	1.69	0.72
24:BA:1475:G:N2	24:BA:1476:C:H5''	2.03	0.72
24:BA:1568:G:H5''	27:BD:60:ARG:O	1.88	0.72
24:BA:1596:A:N6	24:BA:1597:A:C6	2.57	0.72
24:BA:2001:A:H2'	24:BA:2002:G:C8	2.24	0.72
24:BA:2284:C:H5''	52:B5:9:LEU:CD2	2.18	0.72
24:BA:2357:U:H2'	24:BA:2358:G:C5'	2.18	0.72
24:BA:2746:U:C4	24:BA:2756:U:O4	2.42	0.72
24:BA:2776:A:H4'	24:BA:2777:G:O5'	1.88	0.72
24:BA:2820:A:H2'	24:BA:2821:A:OP1	1.89	0.72
24:BA:448:U:C4	24:BA:583:G:H1'	2.23	0.72
24:BA:465:G:N3	24:BA:683:C:O2'	2.19	0.72
24:BA:477:A:H62	24:BA:502:A:H61	0.80	0.72
24:BA:792:G:N2	24:BA:2072:G:O2'	2.21	0.72
24:BA:836:G:C6	24:BA:837:C:N4	2.57	0.72
27:BD:129:ASN:O	27:BD:193:VAL:CB	2.37	0.72
24:BA:1774:C:C4	27:BD:18:VAL:HG11	2.23	0.72
27:BD:60:ARG:HA	27:BD:62:TYR:OH	1.89	0.72
27:BD:92:ILE:HA	27:BD:106:ILE:O	1.90	0.72
29:BF:123:LEU:HD12	29:BF:193:VAL:CG2	2.18	0.72
29:BF:155:LEU:HA	29:BF:174:VAL:HG23	1.70	0.72
30:BG:36:LYS:HZ3	30:BG:38:VAL:N	1.87	0.72
32:BK:9:LEU:O	32:BK:10:GLU:HB2	1.88	0.72
34:BM:103:VAL:HG22	34:BM:104:LYS:N	2.04	0.72
34:BM:127:ASP:OD1	34:BM:128:HIS:N	2.22	0.72
35:BN:39:ILE:O	35:BN:59:LYS:NZ	2.21	0.72
24:BA:1665:A:H5'	35:BN:66:LYS:HD3	1.71	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BN:94:ARG:CG	35:BN:96:THR:H	2.01	0.72
37:BP:29:PHE:HD1	37:BP:29:PHE:O	1.72	0.72
37:BP:6:ARG:HH21	37:BP:8:LYS:C	1.93	0.72
37:BP:6:ARG:NH2	37:BP:8:LYS:HG3	2.04	0.72
39:BR:30:ARG:HG2	39:BR:91:PRO:HG3	1.71	0.72
40:BS:55:ASN:HA	40:BS:62:THR:O	1.88	0.72
24:BA:534:U:O2'	41:BT:49:HIS:NE2	2.21	0.72
41:BT:8:VAL:CG2	41:BT:9:VAL:H	2.01	0.72
42:BU:35:LEU:O	42:BU:61:VAL:HG13	1.90	0.72
42:BU:69:LYS:HG2	42:BU:70:ILE:H	1.55	0.72
45:BX:72:VAL:CG2	45:BX:81:LYS:HE2	2.19	0.72
3:AD:17:C:H3'	3:AD:18:G:C8	2.24	0.72
2:A1:30:U:C6	2:A1:30:U:H5'	2.18	0.72
1:AA:1066:C:C6	1:AA:1067:A:N7	2.58	0.72
1:AA:1227:A:H8	1:AA:1228:C:O4'	1.72	0.72
1:AA:1321:C:H6	1:AA:1321:C:O5'	1.71	0.72
1:AA:37:U:C3'	1:AA:37:U:H6	1.94	0.72
1:AA:921:U:O2'	7:AH:19:MET:O	2.07	0.72
1:AA:936:C:C2'	1:AA:937:A:H5'	2.19	0.72
4:AE:82:ARG:CA	4:AE:94:ASN:HD21	2.03	0.72
5:AF:11:ARG:CG	5:AF:16:ARG:HH21	2.02	0.72
6:AG:25:ARG:C	6:AG:27:TYR:H	1.89	0.72
8:AI:68:PRO:HB2	8:AI:71:ARG:HG3	1.71	0.72
10:AK:113:SER:HA	10:AK:117:GLY:O	1.90	0.72
10:AK:122:ARG:HA	10:AK:125:ARG:NH1	2.03	0.72
10:AK:29:SER:CB	10:AK:32:LYS:HZ3	2.01	0.72
21:AV:5:LEU:HD12	21:AV:9:VAL:HG13	1.70	0.72
53:B6:24:THR:HG23	53:B6:27:GLY:HA3	1.71	0.72
24:BA:1180:C:H2'	24:BA:1181:C:H6	1.51	0.72
24:BA:1198:U:H2'	24:BA:1199:U:C6	2.24	0.72
24:BA:1206:G:C2'	24:BA:1207:C:O4'	2.29	0.72
24:BA:1342:A:C1'	24:BA:1345:C:H41	2.02	0.72
24:BA:1364:G:H5''	24:BA:1809:A:C4	2.24	0.72
24:BA:1438:U:H2'	24:BA:1439:A:C5'	2.18	0.72
24:BA:1471:A:C5	24:BA:1521:G:N2	2.57	0.72
24:BA:1670:C:H3'	24:BA:1671:U:H6	1.53	0.72
24:BA:1702:G:C2'	24:BA:1703:G:H5''	2.01	0.72
24:BA:1937:A:N6	24:BA:1939:U:C4	2.52	0.72
24:BA:2497:A:O2'	24:BA:2498:C:C6	2.42	0.72
24:BA:2611:U:H5'	24:BA:2611:U:H6	1.54	0.72
24:BA:270(B):A:HO2'	24:BA:270(C):C:H6	1.36	0.72
24:BA:289:A:C4	24:BA:351:G:O6	2.43	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:336:C:O2'	24:BA:337:C:H5'	1.89	0.72
24:BA:628:G:C8	24:BA:628:G:O5'	2.42	0.72
24:BA:685:A:C1'	24:BA:688:U:O4	2.37	0.72
24:BA:716:A:C2'	24:BA:717:G:H5'	2.19	0.72
24:BA:997:G:OP2	24:BA:997:G:H8	1.69	0.72
25:BB:117:G:C2	25:BB:118:G:C8	2.77	0.72
24:BA:1655:A:H5''	28:BE:114:ALA:N	2.03	0.72
28:BE:151:TYR:CG	28:BE:152:LYS:N	2.57	0.72
29:BF:182:ASN:HD21	29:BF:185:ASP:CG	1.93	0.72
29:BF:74:ARG:CZ	29:BF:75:HIS:H	2.03	0.72
31:BH:8:PRO:CB	31:BH:51:ARG:HH12	2.01	0.72
34:BM:87:LEU:O	34:BM:91:LEU:HG	1.89	0.72
37:BP:127:ILE:HD13	37:BP:129:THR:CG2	2.19	0.72
38:BQ:86:ARG:NH1	38:BQ:118:GLU:OE1	2.21	0.72
40:BS:45:PHE:CZ	40:BS:87:ASP:HB2	2.25	0.72
42:BU:28:GLU:CB	42:BU:94:LEU:HD12	2.16	0.72
24:BA:85:G:OP1	45:BX:8:LYS:HB3	1.90	0.72
46:BY:2:GLU:OE2	46:BY:58:VAL:CB	2.37	0.72
32:BK:93:THR:HG22	32:BK:96:ASP:OD1	1.89	0.72
26:BC:86:ALA:CA	26:BC:150:GLY:HA2	2.18	0.72
26:BC:213:TYR:CB	26:BC:223:ARG:HA	2.16	0.72
24:BA:1504:C:H6	24:BA:1504:C:O5'	1.73	0.72
2:A1:43:U:H2'	2:A1:44:U:H5	1.49	0.72
1:AA:1512:U:H2'	1:AA:1513:A:H8	1.54	0.72
1:AA:595:G:C8	1:AA:641:U:N3	2.57	0.72
1:AA:81:G:O6	1:AA:87:A:N6	2.23	0.72
3:AB:55:U:C2	3:AB:57:G:H5''	2.25	0.72
3:AC:51:U:H2'	3:AC:52:G:H8	1.55	0.72
4:AE:162:ILE:H	4:AE:162:ILE:HD13	1.55	0.72
6:AG:148:VAL:HG21	6:AG:162:LEU:CD1	2.20	0.72
6:AG:61:LYS:HG3	6:AG:207:TYR:CE1	2.23	0.72
6:AG:82:ALA:HB1	6:AG:92:VAL:HB	1.70	0.72
7:AH:114:GLY:O	7:AH:115:VAL:HG13	1.89	0.72
9:AJ:71:PRO:HG2	9:AJ:96:GLN:HG3	1.72	0.72
13:AN:97:ALA:O	13:AN:100:ALA:HB3	1.89	0.72
13:AN:16:SER:O	13:AN:35:PRO:HG3	1.90	0.72
13:AN:71:LYS:O	13:AN:74:ALA:HB3	1.90	0.72
1:AA:528:C:N4	14:AO:49:ASN:ND2	2.35	0.72
15:AP:98:VAL:H	15:AP:110:ARG:NH2	1.86	0.72
17:AR:63:ARG:HH22	17:AR:87:ILE:HG21	1.53	0.72
18:AS:18:ARG:HH12	18:AS:35:LYS:HB2	0.74	0.72
18:AS:21:VAL:HG13	18:AS:36:ILE:HD11	1.70	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:AT:61:GLU:HA	19:AT:71:PHE:CE2	2.25	0.72
8:AI:46:ARG:HH22	20:AU:37:VAL:CG1	2.03	0.72
20:AU:86:VAL:O	20:AU:87:ARG:HB2	1.88	0.72
50:B3:14:ILE:HG13	50:B3:39:CYS:HB2	1.70	0.72
50:B3:53:GLU:HG2	50:B3:54:GLY:H	1.52	0.72
24:BA:1155:A:C2	24:BA:1157:G:H1'	2.25	0.72
24:BA:1537:C:H3'	24:BA:1537:C:C6	2.24	0.72
24:BA:2296:U:H3'	24:BA:2296:U:C6	2.23	0.72
24:BA:2305:A:C2'	24:BA:2306:C:H5''	2.18	0.72
24:BA:2296:U:C1'	24:BA:2335:A:H61	1.97	0.72
24:BA:271(B):G:H5''	24:BA:271(C):U:C5'	2.19	0.72
24:BA:411:G:O4'	24:BA:2407:G:OP1	2.07	0.72
24:BA:533:G:H2'	24:BA:534:U:O4'	1.89	0.72
24:BA:729:G:C3'	24:BA:730:C:H4'	2.19	0.72
24:BA:83:G:H1	24:BA:102:G:C2'	2.03	0.72
24:BA:893:C:H2'	24:BA:894:C:C6	2.23	0.72
24:BA:923:C:O4'	47:BZ:26:TYR:HB2	1.89	0.72
25:BB:12:C:C5	47:BZ:74:ARG:HB2	2.24	0.72
27:BD:142:VAL:O	27:BD:163:ALA:CB	2.29	0.72
24:BA:2227:A:H1'	27:BD:262:ARG:HD2	1.70	0.72
24:BA:2227:A:H1'	27:BD:262:ARG:NH1	2.04	0.72
28:BE:121:ASN:HB3	28:BE:122:PHE:HD1	1.55	0.72
29:BF:132:VAL:HG13	29:BF:138:GLU:OE1	1.90	0.72
24:BA:2309:A:N7	30:BG:80:PHE:CE2	2.57	0.72
30:BG:6:ALA:HA	30:BG:9:ARG:CZ	2.19	0.72
31:BH:26:VAL:HG11	31:BH:75:ALA:C	2.10	0.72
31:BH:89:ILE:HD12	31:BH:90:LYS:H	1.51	0.72
24:BA:662:G:C4'	36:BO:18:ARG:H	1.98	0.72
39:BR:89:ARG:HG3	39:BR:90:GLY:N	2.02	0.72
1:AA:1464:G:OP1	40:BS:112:ARG:NH1	2.23	0.72
41:BT:61:TRP:CA	41:BT:65:ILE:HD11	2.20	0.72
42:BU:69:LYS:HE2	42:BU:70:ILE:CD1	2.19	0.72
42:BU:62:LEU:HD13	42:BU:98:GLU:N	2.05	0.72
44:BW:8:ILE:C	44:BW:9:LEU:HG	2.09	0.72
46:BY:55:HIS:HB2	46:BY:101:PRO:HG3	1.67	0.72
32:BK:113:ARG:O	32:BK:113:ARG:HD2	1.89	0.72
26:BC:104:LEU:HD13	26:BC:130:ILE:HD11	1.69	0.72
26:BC:46:LYS:HD3	26:BC:210:ARG:HB2	1.72	0.72
1:AA:1417:G:N2	1:AA:1482:G:H2'	2.05	0.72
1:AA:281:G:H4'	1:AA:282:A:H5'	1.70	0.72
1:AA:410:G:C1'	1:AA:432:A:H61	2.03	0.72
1:AA:671:G:N3	1:AA:672:U:H1'	2.04	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:697:U:O5'	1:AA:697:U:H6	1.72	0.72
1:AA:854:G:C5'	1:AA:871:U:H3	2.01	0.72
4:AE:115:LEU:O	4:AE:118:LEU:HB3	1.88	0.72
6:AG:180:GLY:O	6:AG:182:LYS:HG2	1.89	0.72
7:AH:106:PRO:O	7:AH:109:ILE:HG22	1.89	0.72
7:AH:37:ARG:HA	7:AH:112:LEU:O	1.89	0.72
8:AI:1:MET:CE	8:AI:68:PRO:HG3	2.20	0.72
9:AJ:149:ARG:HB3	13:AN:59:TYR:CZ	2.22	0.72
10:AK:85:ARG:HG2	10:AK:85:ARG:NH1	2.04	0.72
11:AL:71:SER:HA	11:AL:74:ILE:HD12	1.72	0.72
13:AN:42:TRP:HE3	13:AN:43:SER:CA	2.03	0.72
15:AP:37:THR:OG1	15:AP:56:LEU:HA	1.89	0.72
15:AP:92:HIS:CG	15:AP:98:VAL:HG21	2.23	0.72
49:B2:51:ALA:O	49:B2:53:LEU:N	2.22	0.72
24:BA:2815:C:C4'	51:B4:42:PRO:HG3	2.19	0.72
51:B4:50:GLY:HA3	51:B4:57:VAL:CG2	2.20	0.72
52:B5:48:VAL:O	52:B5:49:HIS:CB	2.37	0.72
53:B6:25:PRO:HA	53:B6:28:ARG:NE	2.04	0.72
54:B7:36:LYS:HG3	54:B7:40:GLU:CD	2.10	0.72
24:BA:1077:A:H5'	24:BA:1078:U:OP2	1.89	0.72
24:BA:1165:U:H2'	24:BA:1166:C:C6	2.24	0.72
24:BA:51:G:H1'	24:BA:118:A:H62	1.53	0.72
24:BA:1280:G:O2'	24:BA:1281:G:H5'	1.89	0.72
24:BA:1341:U:O4	24:BA:1395:A:H2	1.72	0.72
24:BA:1430:C:H2'	24:BA:1431:U:H6	1.50	0.72
24:BA:1470:G:N3	24:BA:1522:G:N2	2.37	0.72
24:BA:1657:C:H2'	24:BA:1658:C:O4'	1.90	0.72
24:BA:1712:C:H2'	24:BA:1716:U:H6	1.53	0.72
24:BA:1718:G:C8	24:BA:1725:G:N7	2.58	0.72
24:BA:1851:U:H2'	24:BA:1852:C:C6	2.24	0.72
24:BA:1912:A:C8	24:BA:1913:A:H1'	2.24	0.72
24:BA:2213:U:C5'	24:BA:2215:G:N7	2.53	0.72
24:BA:2463:C:C2'	24:BA:2464:C:H5'	2.20	0.72
24:BA:2489:G:H2'	24:BA:2490:G:H8	1.45	0.72
24:BA:2623:G:C5'	24:BA:2826:A:H1'	2.19	0.72
24:BA:2695:C:H2'	24:BA:2696:U:C5	2.24	0.72
24:BA:586:A:N6	24:BA:1254:A:C2	2.58	0.72
24:BA:742:G:H4'	24:BA:1675:C:O2'	1.89	0.72
24:BA:811:U:C6	24:BA:811:U:O5'	2.43	0.72
27:BD:201:HIS:CD2	27:BD:202:LYS:HE2	2.24	0.72
28:BE:44:TYR:C	28:BE:45:THR:HG22	2.10	0.72
24:BA:443:A:H61	29:BF:41:LEU:CD1	2.02	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:BG:65:GLY:O	30:BG:66:GLN:HB2	1.89	0.72
31:BH:87:LEU:H	31:BH:132:ARG:HB3	1.52	0.72
32:BK:8:PRO:HD3	32:BK:35:LEU:O	1.90	0.72
35:BN:24:VAL:HG23	35:BN:26:LYS:HG2	1.71	0.72
36:BO:51:PHE:O	36:BO:55:ARG:HG3	1.89	0.72
36:BO:79:ARG:O	36:BO:83:VAL:HG13	1.88	0.72
36:BO:91:PHE:H	36:BO:125:VAL:CG1	2.01	0.72
37:BP:16:ARG:HG3	37:BP:72:LYS:HB3	1.72	0.72
38:BQ:83:ILE:HG23	38:BQ:86:ARG:NE	2.05	0.72
39:BR:75:GLU:O	39:BR:78:LEU:HB3	1.89	0.72
25:BB:49:C:OP1	39:BR:97:ARG:N	2.22	0.72
41:BT:74:LEU:HD22	41:BT:78:THR:CG2	2.19	0.72
44:BW:44:GLU:CG	44:BW:51:VAL:HG23	2.14	0.72
46:BY:15:PRO:HB3	46:BY:25:PRO:HB3	1.70	0.72
32:BK:69:LYS:CG	32:BK:70:LYS:N	2.51	0.72
3:AD:56:C:H3'	3:AD:57:G:C8	2.25	0.72
39:BR:33:LYS:HG2	39:BR:54:LEU:HD21	1.72	0.72
1:AA:1125:U:H5	12:AM:5:ARG:HH22	1.35	0.72
1:AA:272:C:H2'	1:AA:273:A:C8	2.23	0.72
1:AA:890:G:H2'	1:AA:906:G:O6	1.90	0.72
1:AA:973:G:N2	1:AA:974:A:C6	2.58	0.72
4:AE:184:VAL:H	4:AE:198:ASP:CG	1.92	0.72
4:AE:184:VAL:C	4:AE:198:ASP:HB2	2.09	0.72
5:AF:47:LEU:CD1	5:AF:83:ARG:HH21	2.01	0.72
6:AG:20:TYR:HA	6:AG:33:MET:SD	2.30	0.72
11:AL:111:ARG:O	11:AL:119:ALA:HB2	1.90	0.72
9:AJ:153:HIS:HE1	13:AN:58:PRO:HD2	1.53	0.72
15:AP:29:ARG:NH1	15:AP:66:LEU:HB3	2.05	0.72
18:AS:33:ILE:O	18:AS:34:GLU:HB2	1.89	0.72
20:AU:63:GLN:OE1	20:AU:66:LEU:HD21	1.90	0.72
24:BA:126:A:H5'	53:B6:47:ARG:HH12	1.54	0.72
24:BA:1083:U:O2	24:BA:1083:U:H2'	1.90	0.72
24:BA:1803:A:H2'	24:BA:1804:C:C6	2.24	0.72
24:BA:2031:A:N6	24:BA:2498:C:N1	2.37	0.72
24:BA:2033:A:C6	24:BA:2036:C:C4	2.77	0.72
24:BA:2415:G:H5''	36:BO:61:ARG:CD	2.19	0.72
24:BA:1028:A:C2	24:BA:2486:G:O2'	2.43	0.72
24:BA:2619:C:H4'	28:BE:152:LYS:CA	2.06	0.72
24:BA:2742:C:H5''	55:B8:35:ARG:CZ	2.19	0.72
24:BA:2841:C:C2	24:BA:2842:G:N7	2.57	0.72
24:BA:2811:G:C6	24:BA:2891:G:N2	2.57	0.72
24:BA:293:U:C6	24:BA:293:U:H3'	2.25	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:443:A:N3	24:BA:1201:C:H1'	2.05	0.72
24:BA:739:G:H2'	24:BA:1784:A:H61	1.55	0.72
24:BA:815:C:H2'	24:BA:816:C:H5'	1.70	0.72
24:BA:823:G:H2'	24:BA:823:G:N3	2.04	0.72
24:BA:974:G:O4'	24:BA:1187:G:H1'	1.90	0.72
27:BD:91:ARG:NH1	27:BD:198:ASN:HB2	2.03	0.72
27:BD:214:TRP:CZ2	27:BD:219:PRO:HB3	2.25	0.72
27:BD:270:ILE:HG22	27:BD:271:ILE:O	1.90	0.72
27:BD:63:ARG:HH11	27:BD:87:ASN:HD21	1.35	0.72
29:BF:74:ARG:NH1	29:BF:76:GLY:N	2.38	0.72
29:BF:45:ARG:HG2	29:BF:97:TYR:CD1	2.25	0.72
24:BA:2306:C:C2	30:BG:46:ALA:HB2	2.24	0.72
31:BH:118:PRO:HD2	31:BH:121:ILE:CD1	2.17	0.72
31:BH:29:PRO:HD3	31:BH:79:VAL:C	2.09	0.72
32:BK:31:LEU:CD1	32:BK:36:ALA:HB3	2.19	0.72
34:BM:67:LEU:H	34:BM:87:LEU:HD22	1.55	0.72
34:BM:85:ILE:N	34:BM:85:ILE:HD12	2.03	0.72
24:BA:2780:G:H22	34:BM:97:ARG:HH12	0.75	0.72
35:BN:3:GLN:HG2	35:BN:6:THR:CB	2.16	0.72
24:BA:663:G:H4'	36:BO:18:ARG:HE	1.55	0.72
38:BQ:20:LEU:HD11	38:BQ:24:GLN:OE1	1.89	0.72
38:BQ:64:ARG:HG2	38:BQ:65:LEU:N	2.02	0.72
38:BQ:97:VAL:CA	38:BQ:114:VAL:HG13	2.20	0.72
40:BS:2:ASN:OD1	40:BS:3:ARG:HG3	1.88	0.72
40:BS:64:ARG:NE	40:BS:77:PRO:HB2	2.03	0.72
41:BT:74:LEU:CD1	41:BT:78:THR:HG21	2.19	0.72
42:BU:40:LEU:CD2	42:BU:51:VAL:HG12	2.18	0.72
42:BU:16:PRO:HA	42:BU:98:GLU:HB2	1.71	0.72
43:BV:58:ALA:O	43:BV:63:ASP:N	2.18	0.72
44:BW:15:GLU:HB3	44:BW:16:LYS:HE2	1.71	0.72
46:BY:141:VAL:CG1	46:BY:142:SER:N	2.53	0.72
46:BY:24:LEU:CD1	46:BY:83:PRO:HD2	2.19	0.72
9:AJ:132:GLY:O	9:AJ:136:LYS:HB3	1.90	0.72
1:AA:1416:G:H2'	1:AA:1417:G:H8	1.55	0.72
1:AA:411:A:C4	1:AA:413:G:H1'	2.25	0.72
1:AA:474:G:H5'	18:AS:81:ARG:NE	2.04	0.72
1:AA:674:G:H2'	1:AA:675:A:H8	1.54	0.72
1:AA:576:G:N7	1:AA:881:G:C1'	2.52	0.72
1:AA:989:C:C2'	1:AA:990:C:H5'	2.20	0.72
6:AG:106:TYR:HD2	6:AG:114:ARG:HG2	1.54	0.72
6:AG:101:LEU:HB2	6:AG:138:TYR:O	1.89	0.72
6:AG:169:LYS:HG2	6:AG:176:LEU:HD21	1.72	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:61:LYS:CG	6:AG:203:VAL:HG13	2.19	0.72
10:AK:11:THR:HA	10:AK:14:ARG:CZ	2.20	0.72
10:AK:40:ALA:O	10:AK:43:GLY:N	2.22	0.72
1:AA:1250:A:H4'	11:AL:67:GLY:C	2.10	0.72
13:AN:25:TYR:HD1	13:AN:89:ALA:HB2	1.54	0.72
14:AO:25:PRO:C	14:AO:27:LEU:N	2.42	0.72
15:AP:16:ASP:CA	15:AP:19:LEU:HG	2.20	0.72
19:AT:7:THR:O	19:AT:23:VAL:HG23	1.90	0.72
21:AV:80:TYR:CZ	21:AV:81:ARG:HG3	2.25	0.72
22:AW:44:ALA:HA	22:AW:92:LEU:HD21	1.72	0.72
24:BA:1071:G:C2'	24:BA:1072:C:C5'	2.67	0.72
24:BA:1265:A:C8	24:BA:1267:U:O4	2.43	0.72
24:BA:1273:U:H4'	24:BA:1275:A:P	2.30	0.72
24:BA:1301:A:N6	24:BA:1303:G:N3	2.38	0.72
24:BA:1313:U:O2'	24:BA:1314:C:H5'	1.89	0.72
24:BA:1565:C:N3	24:BA:1567:A:C1'	2.53	0.72
24:BA:1918:A:C8	24:BA:1919:A:N6	2.58	0.72
24:BA:196:A:H3'	24:BA:197:A:H5''	1.72	0.72
24:BA:1992:G:C1'	24:BA:1993:U:O4	2.38	0.72
24:BA:1266:G:N2	24:BA:2012:G:H2'	2.04	0.72
24:BA:2323:G:O2'	24:BA:2324:C:H5'	1.90	0.72
24:BA:2423:U:O2	24:BA:2423:U:H2'	1.88	0.72
24:BA:2476:A:C8	24:BA:2477:C:C5	2.78	0.72
24:BA:2547:U:H2'	24:BA:2548:G:H5''	1.71	0.72
24:BA:2732:G:H3'	24:BA:2733:A:C5'	2.19	0.72
24:BA:2839:G:H2'	24:BA:2840:C:H6	1.54	0.72
24:BA:464:U:O2'	53:B6:12:ARG:NH2	2.23	0.72
24:BA:718:A:H5''	24:BA:719:C:C6	2.25	0.72
24:BA:760:G:C2'	24:BA:761:A:H5'	2.20	0.72
24:BA:945:A:H2'	24:BA:945:A:N3	2.05	0.72
27:BD:5:LYS:HD2	27:BD:113:VAL:HG21	1.70	0.72
27:BD:206:LEU:HD13	27:BD:206:LEU:H	1.54	0.72
27:BD:63:ARG:NH1	27:BD:63:ARG:HB2	2.04	0.72
28:BE:154:LYS:NZ	28:BE:155:LYS:O	2.20	0.72
28:BE:4:ILE:O	28:BE:4:ILE:HG13	1.90	0.72
29:BF:157:VAL:HG22	29:BF:194:MET:CB	2.19	0.72
31:BH:126:PRO:CG	31:BH:132:ARG:HH22	2.03	0.72
33:BL:104:VAL:HG13	33:BL:127:ILE:HB	1.69	0.72
34:BM:123:TYR:CD2	34:BM:129:PRO:HB2	2.24	0.72
34:BM:26:LEU:O	34:BM:26:LEU:HD12	1.90	0.72
34:BM:27:ALA:CA	34:BM:30:ILE:HD12	2.16	0.72
34:BM:36:GLY:HA2	34:BM:47:ALA:O	1.89	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:BM:16:ILE:HB	34:BM:54:VAL:CG2	2.19	0.72
35:BN:16:ALA:C	35:BN:18:LYS:H	1.91	0.72
35:BN:43:VAL:HG11	35:BN:54:GLU:OE1	1.89	0.72
37:BP:48:GLU:C	37:BP:51:ARG:HG3	2.09	0.72
37:BP:74:TYR:O	37:BP:91:GLU:HG2	1.90	0.72
37:BP:75:THR:HG23	37:BP:91:GLU:CD	2.09	0.72
38:BQ:26:LYS:HA	38:BQ:29:LEU:HD12	1.72	0.72
38:BQ:5:LYS:HE2	38:BQ:5:LYS:HA	1.69	0.72
39:BR:74:ALA:HB1	39:BR:108:GLY:H	1.51	0.72
39:BR:62:LYS:HB2	39:BR:65:VAL:HG13	1.69	0.72
41:BT:65:ILE:O	41:BT:66:ASN:C	2.28	0.72
24:BA:997:G:OP1	41:BT:92:ARG:HD2	1.90	0.72
46:BY:9:TYR:HB3	46:BY:14:LYS:NZ	2.04	0.72
24:BA:2176:A:H4'	26:BC:221:SER:HB2	1.71	0.72
26:BC:100:ILE:HG23	26:BC:127:LEU:CG	2.15	0.72
26:BC:26:ALA:HB2	26:BC:185:LEU:HB2	1.72	0.72
6:AG:156:GLU:O	6:AG:159:ARG:HB3	1.90	0.72
1:AA:1036:G:C8	1:AA:1037:C:C5	2.78	0.72
1:AA:1345:U:C2	1:AA:1377:A:N6	2.57	0.72
1:AA:1358:U:OP2	1:AA:1359:C:H5	1.73	0.72
1:AA:309:G:O2'	1:AA:310:G:C5'	2.37	0.72
1:AA:468:A:C4'	18:AS:82:GLN:HB3	2.18	0.72
1:AA:708:C:H4'	13:AN:37:GLY:HA3	1.71	0.72
1:AA:927:G:O5'	1:AA:1503:A:N6	2.23	0.72
4:AE:189:ASP:HB2	4:AE:205:ASP:HB3	1.69	0.72
6:AG:70:ILE:HD12	6:AG:100:ARG:NH2	2.04	0.72
6:AG:15:GLU:HG2	6:AG:63:LYS:CB	2.20	0.72
7:AH:102:ALA:HB1	7:AH:106:PRO:HB2	1.69	0.72
8:AI:49:ALA:HB1	20:AU:80:PRO:HD3	1.71	0.72
9:AJ:54:THR:OG1	9:AJ:56:GLN:HG2	1.90	0.72
13:AN:51:LYS:HD3	13:AN:52:GLY:H	1.55	0.72
14:AO:84:LEU:HG	14:AO:85:ILE:N	2.04	0.72
51:B4:10:LYS:O	51:B4:12:SER:N	2.23	0.72
24:BA:2284:C:O5'	52:B5:9:LEU:HG	1.90	0.72
24:BA:1060:U:H5''	24:BA:1061:U:C4	2.24	0.72
24:BA:1107:G:H2'	24:BA:1108:U:H5'	1.72	0.72
24:BA:1359:A:C2'	24:BA:1360:A:H5'	2.18	0.72
24:BA:1365:A:N7	24:BA:1366:A:N7	2.37	0.72
24:BA:1372:U:H2'	24:BA:1373:A:H5'	1.70	0.72
24:BA:2283:C:C2	24:BA:2389:G:N2	2.57	0.72
3:AB:53:G:C4'	24:BA:2470:G:H5''	2.20	0.72
24:BA:2467:C:N3	24:BA:2483:C:N4	2.37	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:270(J):G:H3'	24:BA:270(K):C:C6	2.24	0.72
24:BA:2882:A:H2'	24:BA:2883:A:O5'	1.89	0.72
24:BA:703:U:H3'	24:BA:704:G:H8	1.55	0.72
24:BA:724:U:C2'	24:BA:725:G:H5'	2.20	0.72
24:BA:834:C:H1'	24:BA:2358:G:C2	2.25	0.72
24:BA:852:G:O2'	24:BA:853:G:H5'	1.90	0.72
24:BA:957:A:N7	24:BA:959:A:N7	2.38	0.72
25:BB:29:A:H2'	25:BB:30:C:H6	1.52	0.72
27:BD:186:HIS:HB2	27:BD:188:GLU:OE2	1.90	0.72
28:BE:77:ILE:O	28:BE:78:LEU:HD13	1.88	0.72
29:BF:11:VAL:HG23	29:BF:17:ARG:HH22	1.52	0.72
33:BL:111:LYS:C	33:BL:113:PRO:HD2	2.10	0.72
34:BM:37:LYS:HD2	34:BM:42:TRP:C	2.09	0.72
35:BN:59:LYS:HA	35:BN:86:ILE:CD1	2.15	0.72
24:BA:598:G:O4'	36:BO:13:ASN:ND2	2.22	0.72
24:BA:662:G:O2'	36:BO:18:ARG:HB2	1.90	0.72
36:BO:46:LYS:CB	36:BO:49:ARG:CZ	2.68	0.72
37:BP:42:ILE:HD13	37:BP:42:ILE:C	2.09	0.72
38:BQ:44:LEU:HD11	38:BQ:48:VAL:HG21	1.72	0.72
39:BR:53:SER:O	39:BR:55:ALA:N	2.23	0.72
40:BS:11:GLU:OE2	40:BS:11:GLU:N	2.22	0.72
24:BA:2875:C:H4'	40:BS:3:ARG:HB2	1.71	0.72
40:BS:64:ARG:CZ	40:BS:77:PRO:HB2	2.19	0.72
44:BW:63:LYS:H	44:BW:72:LYS:CG	2.03	0.72
32:BK:100:ALA:O	32:BK:104:GLN:HB2	1.89	0.72
32:BK:138:ILE:HG13	32:BK:140:LEU:HD11	1.70	0.72
26:BC:68:LEU:HD22	26:BC:157:LYS:HA	1.71	0.72
1:AA:1172:C:O2'	1:AA:1173:G:H5'	1.89	0.72
1:AA:1293:G:H2'	1:AA:1294:G:C8	2.22	0.72
1:AA:299:G:H2'	1:AA:300:A:C8	2.24	0.72
1:AA:310:G:H2'	1:AA:311:C:H6	1.54	0.72
1:AA:524:G:O2'	1:AA:525:C:H5'	1.90	0.72
3:AC:74:C:O3'	24:BA:2602:A:OP1	2.08	0.72
4:AE:111:ARG:HH11	4:AE:111:ARG:CA	2.01	0.72
6:AG:127:THR:O	6:AG:146:ILE:HG22	1.90	0.72
8:AI:33:TYR:HE2	8:AI:74:ASP:CB	2.03	0.72
9:AJ:106:GLN:O	9:AJ:109:ASN:HB2	1.89	0.72
15:AP:3:ARG:HG3	15:AP:7:VAL:HG12	1.70	0.72
21:AV:42:PRO:O	21:AV:45:VAL:HG23	1.89	0.72
22:AW:100:ILE:O	22:AW:102:GLY:N	2.20	0.72
50:B3:5:ILE:O	50:B3:6:HIS:HB2	1.90	0.72
24:BA:1620:G:O4'	53:B6:1:MET:N	2.22	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1014:U:C2'	24:BA:1015:G:H5'	2.20	0.72
24:BA:1372:U:H2'	24:BA:1373:A:C5'	2.19	0.72
24:BA:1703:G:H21	24:BA:1704:G:H1'	1.55	0.72
24:BA:1915:U:OP2	24:BA:1915:U:H3'	1.90	0.72
24:BA:2395:C:C4	24:BA:2396:G:N7	2.57	0.72
24:BA:2423:U:H1'	24:BA:2425:A:C4	2.25	0.72
24:BA:675:A:H1'	24:BA:2443:C:O2'	1.90	0.72
24:BA:2711:A:OP2	24:BA:2712(A):A:OP2	2.07	0.72
24:BA:567:A:N1	24:BA:568:U:O2	2.23	0.72
24:BA:660:G:H5''	29:BF:99:TYR:CZ	2.25	0.72
24:BA:696:G:O2'	24:BA:697:C:H5'	1.90	0.72
24:BA:807:U:C2'	24:BA:808:G:H5'	2.20	0.72
24:BA:83:G:O6	24:BA:102:G:N3	2.22	0.72
24:BA:956:G:P	37:BP:87:LYS:HZ2	2.13	0.72
27:BD:37:LEU:HD11	27:BD:64:ILE:N	2.03	0.72
29:BF:200:GLU:OE1	29:BF:201:VAL:N	2.22	0.72
24:BA:558:G:H5'	34:BM:112:LEU:HD12	1.71	0.72
36:BO:36:LYS:NZ	36:BO:42:SER:OG	2.21	0.72
37:BP:77:LYS:CB	37:BP:78:PRO:CD	2.68	0.72
39:BR:24:LEU:H	39:BR:86:ALA:CB	2.03	0.72
46:BY:103:ARG:NE	46:BY:103:ARG:HA	2.05	0.72
46:BY:100:VAL:O	46:BY:124:ILE:HG23	1.90	0.72
46:BY:157:LEU:CD1	46:BY:161:VAL:HG13	2.20	0.72
3:AD:14:A:H2'	3:AD:14:A:N3	2.05	0.72
26:BC:197:GLU:O	26:BC:200:LYS:HB3	1.90	0.72
26:BC:78:ALA:O	26:BC:119:VAL:HG11	1.89	0.72
24:BA:273(C):C:H2'	24:BA:273(D):C:C6	2.24	0.72
2:A1:38:U:H6	2:A1:38:U:OP2	1.73	0.71
1:AA:1116:C:H2'	1:AA:1117:G:H8	1.54	0.71
1:AA:1349:A:H2'	1:AA:1350:A:H8	1.55	0.71
1:AA:1422:G:H2'	1:AA:1423:G:H8	1.55	0.71
1:AA:1484:C:O2'	1:AA:1485:U:H5'	1.90	0.71
1:AA:359:U:H2'	1:AA:360:A:H8	1.54	0.71
1:AA:713:G:N2	1:AA:777:A:C1'	2.51	0.71
1:AA:95:G:C2	1:AA:96:G:H1'	2.25	0.71
1:AA:961:U:H1'	1:AA:1201:A:N6	2.04	0.71
3:AC:24:G:H2'	3:AC:25:C:C6	2.25	0.71
3:AC:74:C:H5''	24:BA:2602:A:H3'	1.70	0.71
3:AD:37:A:H61	9:AJ:79:ARG:HH22	1.37	0.71
4:AE:9:GLU:HG2	4:AE:10:LEU:H	1.55	0.71
4:AE:134:GLU:HA	4:AE:134:GLU:OE1	1.89	0.71
4:AE:223:ILE:HG22	4:AE:229:VAL:HA	1.70	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:22:TRP:CZ3	5:AF:32:LEU:HB3	2.25	0.71
6:AG:52:SER:C	6:AG:54:TYR:N	2.40	0.71
10:AK:27:PRO:O	10:AK:32:LYS:HD3	1.90	0.71
10:AK:40:ALA:HB2	10:AK:45:ILE:HG12	1.72	0.71
10:AK:78:GLN:HG3	10:AK:80:ILE:O	1.89	0.71
15:AP:29:ARG:CZ	15:AP:64:TRP:HE1	2.03	0.71
15:AP:74:VAL:O	15:AP:78:ILE:HG13	1.90	0.71
1:AA:657:G:N2	17:AR:22:THR:O	2.21	0.71
17:AR:54:ARG:HA	17:AR:57:LEU:CD2	2.17	0.71
18:AS:6:LEU:O	18:AS:6:LEU:HD22	1.90	0.71
20:AU:18:ARG:NH2	20:AU:21:LYS:HD3	2.05	0.71
1:AA:192:U:C1'	22:AW:103:GLY:HA2	2.20	0.71
50:B3:23:GLU:HA	50:B3:27:THR:O	1.90	0.71
24:BA:1087:G:H21	24:BA:1103:A:H2'	1.54	0.71
24:BA:1314:C:C2	24:BA:1315:C:C5	2.78	0.71
24:BA:1670:C:OP2	24:BA:1671:U:C5	2.43	0.71
24:BA:1807:G:H21	24:BA:1809:A:H5'	1.55	0.71
24:BA:1934:C:C4'	24:BA:1974:C:H4'	2.19	0.71
24:BA:2498:C:C2'	24:BA:2499:C:H5''	2.20	0.71
24:BA:1955:U:H3	24:BA:2552:U:HO2'	1.35	0.71
24:BA:261:G:O2'	24:BA:609:A:H4'	1.89	0.71
24:BA:2636:U:OP1	28:BE:79:ARG:N	2.20	0.71
24:BA:299:A:N1	24:BA:322:A:H2'	2.04	0.71
24:BA:603:A:H2'	24:BA:604:G:H8	1.54	0.71
24:BA:623:G:C8	36:BO:105:LEU:HB2	2.24	0.71
24:BA:825:C:O2'	24:BA:826:U:H5'	1.89	0.71
25:BB:43:C:O2	30:BG:95:ARG:NE	2.23	0.71
27:BD:250:TRP:HA	27:BD:250:TRP:CE3	2.25	0.71
28:BE:172:VAL:HA	28:BE:184:VAL:HG12	1.72	0.71
28:BE:11:MET:O	28:BE:22:PRO:CD	2.38	0.71
29:BF:150:GLY:O	29:BF:152:GLU:N	2.22	0.71
29:BF:36:VAL:HG11	29:BF:183:VAL:HG11	1.72	0.71
29:BF:37:VAL:HA	29:BF:184:TYR:CZ	2.25	0.71
31:BH:98:LEU:H	31:BH:125:VAL:HG21	1.53	0.71
31:BH:94:TYR:HE2	31:BH:96:ALA:HB2	1.55	0.71
33:BL:37:PHE:CB	33:BL:57:ILE:HD12	2.18	0.71
35:BN:8:LEU:HD11	35:BN:82:ASN:HA	1.70	0.71
36:BO:77:ARG:O	36:BO:81:GLN:HG3	1.90	0.71
37:BP:77:LYS:CB	37:BP:78:PRO:HD3	2.20	0.71
40:BS:26:ASP:HA	40:BS:100:TYR:CE2	2.24	0.71
28:BE:8:LYS:HG2	40:BS:6:LEU:HD11	1.70	0.71
40:BS:79:HIS:N	40:BS:79:HIS:ND1	2.33	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BT:44:ASN:C	41:BT:47:TYR:HB2	2.10	0.71
43:BV:72:LYS:HB3	43:BV:108:GLY:HA3	1.72	0.71
45:BX:72:VAL:HG11	45:BX:96:ILE:HG21	1.71	0.71
46:BY:144:LEU:HB3	46:BY:174:VAL:CG1	2.14	0.71
24:BA:2168:G:H2'	24:BA:2170:A:OP2	1.89	0.71
26:BC:116:THR:O	26:BC:120:MET:HG2	1.89	0.71
52:B5:54:ILE:HD13	52:B5:54:ILE:O	1.89	0.71
1:AA:1142:G:O2'	1:AA:1143:G:H5'	1.90	0.71
1:AA:1200:C:H3'	1:AA:1201:A:C5'	2.19	0.71
1:AA:1200:C:H5''	1:AA:1201:A:O3'	1.90	0.71
1:AA:1277:C:C4'	1:AA:1282:C:H1'	2.17	0.71
1:AA:968:A:H4'	1:AA:969:A:OP2	1.89	0.71
4:AE:132:LYS:O	4:AE:135:GLN:HB2	1.90	0.71
4:AE:16:HIS:HA	4:AE:204:ASN:CB	2.21	0.71
5:AF:159:GLY:H	5:AF:193:TYR:HE1	1.35	0.71
5:AF:29:TYR:O	5:AF:32:LEU:HB2	1.89	0.71
6:AG:19:LEU:H	6:AG:33:MET:CE	2.01	0.71
9:AJ:150:ALA:HA	13:AN:59:TYR:CG	2.25	0.71
10:AK:64:LYS:CG	10:AK:79:VAL:HG21	2.19	0.71
13:AN:58:PRO:CB	13:AN:90:GLY:HA3	2.20	0.71
13:AN:95:ILE:O	13:AN:98:LEU:HB2	1.89	0.71
14:AO:101:VAL:HG23	14:AO:104:VAL:HG21	1.72	0.71
14:AO:46:LYS:HE3	14:AO:47:LYS:NZ	2.04	0.71
14:AO:27:LEU:HB2	14:AO:64:TYR:OH	1.90	0.71
16:AQ:26:ARG:HE	16:AQ:43:CYS:CA	2.02	0.71
21:AV:30:LEU:HG	21:AV:50:ALA:N	2.04	0.71
24:BA:1543:A:H5''	24:BA:1544:C:OP2	1.90	0.71
24:BA:17:G:H4'	41:BT:25:TRP:CH2	2.25	0.71
24:BA:1815:A:H1'	24:BA:1817:G:C5	2.26	0.71
24:BA:1839:G:C8	24:BA:1927:A:O4'	2.43	0.71
24:BA:2017:U:C2'	24:BA:2018:G:OP1	2.37	0.71
24:BA:2019:A:C3'	24:BA:2020:A:H5''	2.18	0.71
24:BA:2208:U:H2'	24:BA:2209:C:H5'	1.72	0.71
24:BA:2360:A:H2'	24:BA:2361:A:O4'	1.89	0.71
3:AD:76:A:N3	24:BA:2432:A:O4'	2.23	0.71
24:BA:2559:C:O2'	24:BA:2560:C:H5'	1.89	0.71
24:BA:2740:A:H2'	24:BA:2741:A:H8	1.53	0.71
27:BD:39:LYS:HA	27:BD:62:TYR:CB	2.20	0.71
28:BE:91:VAL:HG22	28:BE:93:VAL:N	2.06	0.71
30:BG:57:ALA:HA	30:BG:67:LYS:C	2.08	0.71
30:BG:59:GLU:CD	30:BG:152:LEU:HD22	2.09	0.71
30:BG:5:VAL:CG1	30:BG:9:ARG:HH22	2.02	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:BH:103:LEU:O	31:BH:105:LEU:HG	1.90	0.71
31:BH:107:VAL:HG13	31:BH:152:ARG:HE	1.54	0.71
31:BH:149:ARG:HA	31:BH:162:ILE:HD13	1.72	0.71
31:BH:7:LEU:HD22	31:BH:65:HIS:CD2	2.25	0.71
33:BL:108:ALA:HB1	33:BL:123:ALA:CB	2.20	0.71
35:BN:8:LEU:CD1	35:BN:82:ASN:HA	2.20	0.71
36:BO:84:ASN:O	36:BO:85:LEU:HG	1.90	0.71
36:BO:99:LEU:HD22	36:BO:101:VAL:HG22	1.72	0.71
37:BP:89:ASN:HD22	37:BP:89:ASN:N	1.86	0.71
39:BR:58:LEU:O	39:BR:65:VAL:HG12	1.90	0.71
40:BS:29:ARG:CG	40:BS:51:ARG:HG2	2.18	0.71
40:BS:51:ARG:NH1	40:BS:114:LEU:HD13	2.05	0.71
45:BX:46:LYS:CG	45:BX:58:GLY:H	2.03	0.71
45:BX:84:ARG:HG2	45:BX:86:ARG:H	1.55	0.71
46:BY:105:VAL:N	46:BY:140:ASP:OD1	2.22	0.71
46:BY:161:VAL:HG12	46:BY:162:GLU:N	2.03	0.71
46:BY:57:ILE:HG23	46:BY:58:VAL:H	1.55	0.71
24:BA:2160:G:H2'	24:BA:2161:C:C6	2.25	0.71
26:BC:100:ILE:HD11	26:BC:123:VAL:CG2	2.20	0.71
1:AA:160:A:H2'	1:AA:161:A:O4'	1.90	0.71
1:AA:1063:C:H5''	1:AA:1064:G:OP2	1.91	0.71
1:AA:1192:C:C6	1:AA:1192:C:C3'	2.69	0.71
1:AA:1318:A:H4'	21:AV:10:PHE:HD2	1.55	0.71
1:AA:1333:A:O2'	1:AA:1334:G:H5'	1.91	0.71
1:AA:769:G:H5'	1:AA:1513:A:H4'	1.71	0.71
1:AA:323:U:H5	1:AA:324:G:C4	2.09	0.71
1:AA:34:C:H2'	1:AA:35:G:H8	1.55	0.71
1:AA:112:G:C5'	1:AA:389:A:H4'	2.16	0.71
1:AA:517:G:HO2'	1:AA:530:G:H4'	1.54	0.71
1:AA:578:C:O2'	1:AA:728:A:N3	2.22	0.71
4:AE:187:LEU:C	4:AE:187:LEU:HD13	2.10	0.71
4:AE:208:ILE:CG1	4:AE:211:ILE:HD12	2.19	0.71
4:AE:23:ARG:NH1	4:AE:24:TRP:N	2.37	0.71
5:AF:146:ALA:O	5:AF:147:LYS:HD2	1.91	0.71
5:AF:201:TYR:CD1	5:AF:201:TYR:N	2.55	0.71
5:AF:28:GLN:HA	5:AF:30:ARG:CZ	2.21	0.71
6:AG:13:ARG:HH11	6:AG:36:ARG:HB2	1.56	0.71
10:AK:129:VAL:HG22	10:AK:130:GLY:N	2.04	0.71
13:AN:122:LYS:C	13:AN:126:ARG:HG3	2.10	0.71
14:AO:36:VAL:C	14:AO:58:VAL:HG13	2.09	0.71
14:AO:61:THR:O	14:AO:62:SER:OG	2.09	0.71
14:AO:68:ALA:HB1	14:AO:98:TYR:O	1.90	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AP:108:ARG:NH2	15:AP:111:LYS:HD3	2.05	0.71
15:AP:81:LEU:HD22	15:AP:82:MET:N	2.05	0.71
17:AR:75:PRO:HA	17:AR:78:TYR:CB	2.18	0.71
1:AA:266:G:C3'	19:AT:67:LYS:HD2	2.13	0.71
20:AU:36:ASN:HB3	20:AU:40:LEU:CG	2.20	0.71
20:AU:40:LEU:O	20:AU:43:PHE:HD1	1.73	0.71
21:AV:15:LEU:HD21	21:AV:38:SER:HB2	1.71	0.71
21:AV:58:VAL:HG23	21:AV:60:VAL:HG23	1.72	0.71
24:BA:2371:G:C5'	52:B5:45:LYS:HB3	2.19	0.71
24:BA:1263:U:N3	24:BA:1264:G:N2	2.39	0.71
24:BA:1353:A:H2'	24:BA:1354:A:H8	1.52	0.71
24:BA:1438:U:H3	24:BA:1553:A:N6	1.88	0.71
24:BA:1839:G:H2'	24:BA:1839:G:N3	2.03	0.71
24:BA:2299:G:O2'	24:BA:2300:G:H5'	1.90	0.71
24:BA:265:A:H2'	24:BA:266:G:O4'	1.89	0.71
24:BA:2721:A:H2'	24:BA:2722:G:H8	1.55	0.71
24:BA:2847:U:C5	24:BA:2848:G:N7	2.58	0.71
24:BA:287:C:H2'	24:BA:288:C:H5	1.51	0.71
24:BA:2900:A:H2'	24:BA:2901:C:H6	1.53	0.71
24:BA:510:C:O5'	24:BA:512:G:N1	2.24	0.71
24:BA:559:G:C2'	24:BA:560:C:C6	2.66	0.71
24:BA:617:G:C8	24:BA:618:G:N7	2.58	0.71
24:BA:774:A:O2'	24:BA:775:G:C8	2.43	0.71
25:BB:30:C:H1'	25:BB:58:A:C2	2.26	0.71
24:BA:1788:C:O2	27:BD:222:ARG:NH2	2.23	0.71
28:BE:119:ARG:NH2	28:BE:155:LYS:HD2	2.06	0.71
29:BF:181:LEU:N	29:BF:181:LEU:HD13	2.05	0.71
35:BN:101:PRO:HD3	35:BN:119:PRO:O	1.90	0.71
24:BA:1242:A:N1	36:BO:6:LEU:HD11	2.04	0.71
36:BO:7:ARG:HD2	36:BO:8:PRO:HD3	1.70	0.71
37:BP:34:LEU:HB2	37:BP:67:ARG:NH2	2.03	0.71
37:BP:78:PRO:HB3	37:BP:81:VAL:CG2	2.18	0.71
24:BA:2250:G:N7	37:BP:83:MET:O	2.23	0.71
38:BQ:97:VAL:HA	38:BQ:114:VAL:CG1	2.20	0.71
40:BS:27:THR:HG22	40:BS:28:VAL:H	1.55	0.71
43:BV:27:LYS:HB3	43:BV:31:GLU:CD	2.10	0.71
45:BX:81:LYS:HD3	45:BX:96:ILE:HG13	1.70	0.71
45:BX:86:ARG:O	45:BX:91:GLU:HG2	1.90	0.71
24:BA:2162:G:C2'	24:BA:2163:C:H5'	2.19	0.71
1:AA:1084:G:H2'	1:AA:1085:U:C6	2.25	0.71
1:AA:1231:G:H5'	15:AP:126:LYS:HZ3	1.55	0.71
1:AA:1224:G:H1	1:AA:1362(A):C:H42	1.38	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.25	0.71
1:AA:1488:G:O2'	1:AA:1489:G:H5'	1.89	0.71
1:AA:193:C:H2'	1:AA:194:C:C6	2.24	0.71
1:AA:367:U:H4'	1:AA:368:U:OP1	1.85	0.71
1:AA:519:C:OP2	14:AO:50:SER:O	2.08	0.71
3:AC:75:C:H42	24:BA:2451:A:H4'	1.52	0.71
5:AF:182:ILE:HG23	5:AF:203:PHE:HA	1.71	0.71
5:AF:42:LEU:HD12	5:AF:94:LEU:HD12	1.72	0.71
6:AG:93:PHE:O	6:AG:94:LEU:C	2.29	0.71
9:AJ:15:ASP:H	9:AJ:20:ASP:H	1.37	0.71
10:AK:112:LEU:HB2	10:AK:133:LEU:HA	1.72	0.71
10:AK:14:ARG:HD2	10:AK:15:ASN:N	2.05	0.71
10:AK:36:LEU:HD12	10:AK:48:TYR:CG	2.24	0.71
11:AL:19:LEU:HD23	11:AL:20:ARG:H	1.55	0.71
13:AN:13:GLN:HB3	13:AN:76:GLY:HA3	1.71	0.71
17:AR:36:ILE:CD1	17:AR:60:VAL:HG13	2.20	0.71
19:AT:17:LYS:HE3	19:AT:48:GLU:HA	1.71	0.71
20:AU:76:LEU:N	20:AU:76:LEU:HD22	2.05	0.71
21:AV:11:VAL:HG12	21:AV:11:VAL:O	1.89	0.71
21:AV:19:VAL:HG22	21:AV:43:GLU:OE1	1.89	0.71
21:AV:40:ILE:O	21:AV:68:GLY:HA2	1.90	0.71
22:AW:50:GLU:H	22:AW:99:LEU:CD1	1.92	0.71
54:B7:39:LYS:HG2	54:B7:40:GLU:N	2.05	0.71
24:BA:1158:C:H4'	49:B2:32:GLN:NE2	2.02	0.71
24:BA:1270:C:O2	24:BA:1325:G:N7	2.24	0.71
24:BA:1355:G:H22	24:BA:1377:G:H1'	1.53	0.71
24:BA:1398:C:H2'	24:BA:1399:C:H6	1.56	0.71
24:BA:1554:A:O2'	24:BA:1555:G:OP1	2.09	0.71
24:BA:172:C:H2'	24:BA:173:G:H8	1.54	0.71
24:BA:1955:U:O5'	24:BA:1956:U:O4	2.08	0.71
24:BA:647:G:H4'	24:BA:2352:A:OP1	1.89	0.71
3:AB:75:C:H1'	24:BA:2555:U:O2	1.91	0.71
24:BA:2688:U:H1'	24:BA:2721:A:H61	1.56	0.71
24:BA:2779:U:H5'	24:BA:2781:A:OP2	1.91	0.71
24:BA:2780:G:C2'	24:BA:2781:A:H5''	2.21	0.71
24:BA:442:G:C4'	29:BF:46:ARG:HG3	2.20	0.71
24:BA:592:G:H1'	54:B7:1:MET:O	1.89	0.71
24:BA:5:A:O2'	24:BA:6:A:H5'	1.90	0.71
24:BA:861:A:C2'	24:BA:862:G:H5'	2.20	0.71
27:BD:63:ARG:HG3	27:BD:64:ILE:H	1.53	0.71
27:BD:8:PRO:HD2	27:BD:26:LYS:CA	2.19	0.71
28:BE:133:LYS:HZ1	28:BE:137:HIS:HB3	1.53	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:156:LEU:HD12	29:BF:167:ALA:HB1	1.71	0.71
29:BF:24:LEU:H	29:BF:25:PRO:HD2	1.55	0.71
29:BF:34:TRP:CE3	29:BF:37:VAL:HG21	2.26	0.71
30:BG:37:VAL:HB	30:BG:99:MET:SD	2.30	0.71
30:BG:75:LYS:HD3	30:BG:85:GLY:N	2.05	0.71
31:BH:33:LEU:HD21	31:BH:35:VAL:HG13	1.71	0.71
31:BH:55:PRO:HG2	31:BH:61:HIS:CE1	2.26	0.71
33:BL:112:MET:SD	33:BL:118:THR:HG22	2.30	0.71
33:BL:39:LYS:HA	33:BL:42:ASN:HD22	1.53	0.71
33:BL:52:ILE:HD12	33:BL:76:TYR:CD2	2.25	0.71
35:BN:10:VAL:HG23	35:BN:83:ALA:O	1.90	0.71
36:BO:89:ALA:C	36:BO:125:VAL:HG22	2.11	0.71
37:BP:93:TYR:O	37:BP:94:VAL:HG12	1.91	0.71
37:BP:99:PRO:CG	37:BP:101:ARG:HE	2.02	0.71
42:BU:7:THR:HG23	42:BU:11:GLN:CD	2.11	0.71
42:BU:11:GLN:HB3	42:BU:21:ARG:HD2	1.70	0.71
42:BU:5:VAL:CG1	42:BU:37:VAL:HG22	2.20	0.71
46:BY:42:VAL:HB	46:BY:43:GLU:OE1	1.90	0.71
3:AD:18:G:H21	3:AD:58:A:H5''	1.55	0.71
24:BA:2114:A:H2'	24:BA:2115:G:C5'	2.19	0.71
26:BC:162:GLU:CG	26:BC:163:PHE:H	2.02	0.71
26:BC:64:LEU:HD23	26:BC:191:ALA:CB	2.21	0.71
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.24	0.71
1:AA:1246:C:O2'	1:AA:1247:U:H5'	1.90	0.71
1:AA:1268:A:C2	1:AA:1311:G:N2	2.58	0.71
1:AA:266:G:H8	19:AT:67:LYS:NZ	1.80	0.71
1:AA:275:G:H5'	19:AT:14:LYS:HZ3	1.54	0.71
1:AA:66:G:C4'	1:AA:173:U:C4	2.73	0.71
4:AE:12:GLU:O	4:AE:14:GLY:N	2.22	0.71
4:AE:175:ARG:HA	4:AE:178:ARG:CG	2.21	0.71
7:AH:145:LYS:HA	7:AH:148:VAL:HG23	1.73	0.71
2:A1:50:U:OP2	7:AH:15:ARG:HG3	1.89	0.71
8:AI:8:ILE:HG22	8:AI:88:VAL:HA	1.70	0.71
9:AJ:72:ARG:HG3	9:AJ:73:MET:H	1.56	0.71
12:AM:31:GLY:HA3	12:AM:74:ILE:HG21	1.72	0.71
12:AM:39:PRO:O	12:AM:40:LEU:HB2	1.90	0.71
12:AM:68:HIS:HB3	12:AM:70:ARG:NH2	2.05	0.71
18:AS:57:ARG:O	18:AS:60:LEU:HB2	1.91	0.71
18:AS:72:ARG:NH2	18:AS:73:LEU:HB2	2.04	0.71
19:AT:104:LYS:HD3	19:AT:105:ALA:N	2.06	0.71
49:B2:16:PRO:HG2	49:B2:19:GLN:HB3	1.73	0.71
50:B3:29:PRO:HG2	50:B3:31:ILE:CG2	2.20	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2286:A:H1'	52:B5:37:ARG:HH21	1.55	0.71
24:BA:1223:C:C2	24:BA:1227:A:N1	2.59	0.71
24:BA:1238:G:H2'	24:BA:1239:G:O4'	1.91	0.71
24:BA:1317:A:H2'	24:BA:1318:C:H6	1.54	0.71
24:BA:1382:G:H2'	24:BA:1383:C:C6	2.25	0.71
24:BA:1807:G:H21	24:BA:1809:A:C5'	2.02	0.71
24:BA:1819:A:P	27:BD:157:ARG:HA	2.31	0.71
24:BA:2092:U:C5	24:BA:2227:A:N6	2.58	0.71
24:BA:2238:G:C2'	24:BA:2239:G:H5''	2.20	0.71
24:BA:2278:A:OP1	37:BP:14:ARG:CG	2.33	0.71
24:BA:2522:U:H5'	24:BA:2523:G:OP2	1.91	0.71
24:BA:2679:A:O2'	24:BA:2680:C:H5'	1.91	0.71
24:BA:352:G:N2	24:BA:353:G:H1'	2.05	0.71
24:BA:460:A:C2'	24:BA:461:C:H6	2.02	0.71
24:BA:514:A:C2	24:BA:515:A:N9	2.57	0.71
24:BA:64:A:H2'	24:BA:65:C:H5'	1.72	0.71
24:BA:871:U:H2'	24:BA:872:A:H8	1.56	0.71
25:BB:112:G:H5'	25:BB:113:C:OP2	1.89	0.71
27:BD:161:THR:OG1	27:BD:196:VAL:HB	1.90	0.71
27:BD:59:LYS:HD2	27:BD:59:LYS:C	2.11	0.71
30:BG:37:VAL:HG22	30:BG:159:VAL:HG12	1.72	0.71
31:BH:94:TYR:OH	31:BH:128:PRO:HG2	1.91	0.71
31:BH:7:LEU:HB3	31:BH:65:HIS:NE2	2.05	0.71
34:BM:107:LEU:HB3	34:BM:117:PHE:CZ	2.25	0.71
34:BM:7:LYS:HD3	34:BM:39:ARG:CZ	2.21	0.71
37:BP:6:ARG:HG2	37:BP:70:PRO:HB3	1.72	0.71
39:BR:26:LEU:HD22	39:BR:27:SER:H	1.55	0.71
40:BS:31:SER:OG	40:BS:49:VAL:HG22	1.91	0.71
41:BT:30:LYS:HD2	41:BT:30:LYS:H	1.54	0.71
42:BU:36:PRO:CA	42:BU:61:VAL:HG22	2.20	0.71
42:BU:50:PRO:HB2	42:BU:53:GLU:OE1	1.90	0.71
46:BY:95:PRO:HD2	46:BY:131:ARG:HG2	1.71	0.71
3:AD:21:A:N6	3:AD:48:C:C6	2.59	0.71
2:A1:29:G:C3'	2:A1:30:U:H5''	2.19	0.71
1:AA:1216:G:H2'	1:AA:1217:C:H6	1.55	0.71
1:AA:122:G:O2'	1:AA:123:C:H5'	1.89	0.71
1:AA:1260:C:H4'	1:AA:1284:C:H5''	1.72	0.71
1:AA:1516:G:N2	1:AA:1518:A:O5'	2.23	0.71
1:AA:1405:G:O4'	1:AA:1519:A:H4'	1.89	0.71
1:AA:192:U:H2'	1:AA:193:C:C6	2.25	0.71
1:AA:484:G:C8	1:AA:486:U:N3	2.59	0.71
1:AA:517:G:H22	1:AA:533:A:P	2.13	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:397:A:C2	1:AA:548:G:O6	2.43	0.71
1:AA:646:U:O2'	1:AA:647:C:H5'	1.90	0.71
1:AA:692:U:H2'	1:AA:694:A:OP2	1.91	0.71
1:AA:575:G:N1	1:AA:821:G:C8	2.59	0.71
4:AE:21:ARG:O	4:AE:23:ARG:N	2.24	0.71
5:AF:47:LEU:O	5:AF:52:LEU:HD22	1.90	0.71
9:AJ:69:VAL:HG11	9:AJ:104:LEU:CG	2.20	0.71
9:AJ:66:VAL:HG12	9:AJ:70:LYS:HE2	1.71	0.71
10:AK:43:GLY:O	10:AK:44:PHE:HB2	1.88	0.71
10:AK:80:ILE:N	10:AK:80:ILE:HD12	2.03	0.71
13:AN:86:GLY:HA2	13:AN:112:THR:HG23	1.72	0.71
15:AP:91:ARG:HH12	15:AP:103:THR:HG21	1.55	0.71
12:AM:11:PHE:CD1	16:AQ:55:GLY:HA3	2.25	0.71
19:AT:63:ARG:HG2	19:AT:64:PRO:CD	2.20	0.71
8:AI:98:LEU:HG	20:AU:28:GLU:HG3	1.73	0.71
49:B2:11:SER:H	49:B2:12:PRO:HD3	1.53	0.71
51:B4:58:LEU:CD2	51:B4:59:GLU:H	1.94	0.71
24:BA:1024:G:C2	24:BA:1025:G:N7	2.59	0.71
24:BA:1044:G:N2	24:BA:1111:A:C4'	2.53	0.71
24:BA:1695:G:C2'	24:BA:1696:G:H5'	2.21	0.71
24:BA:197:A:H3'	24:BA:198:C:C6	2.24	0.71
24:BA:2014:A:O5'	24:BA:2014:A:H8	1.74	0.71
24:BA:2046:G:OP1	51:B4:18:ALA:CB	2.39	0.71
24:BA:966:G:O2'	24:BA:2267:A:N6	2.23	0.71
24:BA:2281:C:HO2'	24:BA:2282:G:C5'	2.04	0.71
24:BA:2031:A:N6	24:BA:2498:C:C2	2.59	0.71
24:BA:2517:C:O2'	24:BA:2518:A:O5'	2.08	0.71
24:BA:332:A:O2'	24:BA:334:C:OP2	2.05	0.71
24:BA:452:G:N1	24:BA:458:G:C2	2.59	0.71
24:BA:686:G:N3	24:BA:686:G:H5''	2.05	0.71
27:BD:177:LEU:HD21	27:BD:181:GLU:HB3	1.70	0.71
27:BD:251:GLY:CA	27:BD:255:LYS:HZ2	2.03	0.71
27:BD:261:LYS:O	27:BD:263:ARG:N	2.24	0.71
27:BD:54:ARG:HA	27:BD:219:PRO:CG	2.20	0.71
28:BE:49:LEU:CA	28:BE:76:ARG:O	2.38	0.71
29:BF:197:ASP:O	29:BF:200:GLU:OE1	2.08	0.71
30:BG:40:ASN:ND2	30:BG:41:GLN:H	1.89	0.71
30:BG:80:PHE:O	30:BG:83:ARG:NH2	2.23	0.71
30:BG:44:GLY:H	30:BG:88:ILE:CG2	2.03	0.71
31:BH:38:SER:N	31:BH:41:MET:HE2	2.04	0.71
34:BM:85:ILE:HB	34:BM:90:MET:HE1	1.70	0.71
35:BN:108:GLU:O	35:BN:109:LYS:HB2	1.88	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BN:63:VAL:HG21	35:BN:82:ASN:OD1	1.89	0.71
24:BA:624:C:N4	36:BO:104:GLY:HA2	2.05	0.71
36:BO:75:ILE:CG2	36:BO:115:LEU:HD11	2.17	0.71
24:BA:389:G:H1	36:BO:64:LYS:HG2	1.54	0.71
36:BO:99:LEU:HD22	36:BO:101:VAL:HG13	1.72	0.71
37:BP:77:LYS:HB3	37:BP:78:PRO:HD3	1.71	0.71
37:BP:81:VAL:CG1	37:BP:82:ARG:H	1.87	0.71
38:BQ:105:ARG:NE	38:BQ:105:ARG:HA	2.05	0.71
41:BT:89:GLU:HG2	42:BU:52:VAL:CG2	2.06	0.71
41:BT:94:ASN:HA	41:BT:97:ASP:OD1	1.91	0.71
44:BW:16:LYS:HE2	44:BW:16:LYS:N	2.05	0.71
24:BA:1342:A:OP1	44:BW:55:ASN:HB3	1.91	0.71
26:BC:22:ILE:HD12	26:BC:190:ARG:NH2	2.05	0.71
34:BM:6:PRO:HA	34:BM:41:ASP:HB3	1.70	0.71
24:BA:1886:C:H2'	24:BA:1887:C:C6	2.24	0.71
1:AA:1016:A:H2'	1:AA:1017:G:O4'	1.89	0.71
1:AA:1043:C:H2'	1:AA:1044:A:O4'	1.91	0.71
1:AA:1443:G:O2'	1:AA:1446:A:H4'	1.91	0.71
1:AA:427:U:H6	1:AA:427:U:O5'	1.74	0.71
1:AA:453:A:N6	1:AA:480:U:H3	1.88	0.71
1:AA:51:A:C6	1:AA:353:A:C2	2.79	0.71
1:AA:563:A:H1'	1:AA:566:G:O2'	1.89	0.71
1:AA:687:A:H61	1:AA:703:G:H1'	1.54	0.71
4:AE:31:TYR:CE2	4:AE:200:ILE:CG2	2.74	0.71
4:AE:47:THR:HG22	4:AE:51:LEU:HD11	1.73	0.71
5:AF:87:LEU:HB2	5:AF:101:LEU:CD1	2.20	0.71
5:AF:50:ALA:C	5:AF:72:LYS:HD2	2.10	0.71
6:AG:107:ARG:NH1	6:AG:107:ARG:HA	2.00	0.71
7:AH:16:THR:O	7:AH:26:PHE:HB2	1.90	0.71
8:AI:52:ILE:HG22	8:AI:53:ALA:N	2.05	0.71
9:AJ:76:ARG:CB	9:AJ:156:TRP:HE1	1.93	0.71
1:AA:878:G:H5''	10:AK:89:PRO:HG2	1.73	0.71
13:AN:22:HIS:ND1	13:AN:29:ILE:HD11	2.05	0.71
13:AN:84:VAL:HG23	13:AN:111:ASP:H	1.54	0.71
15:AP:24:GLY:O	15:AP:66:LEU:HD13	1.91	0.71
15:AP:67:GLU:CG	15:AP:68:GLY:N	2.53	0.71
17:AR:63:ARG:HH22	17:AR:87:ILE:HD13	1.56	0.71
19:AT:75:ARG:HH12	19:AT:77:VAL:HG22	1.55	0.71
22:AW:57:ARG:HH21	22:AW:100:ILE:HB	1.53	0.71
24:BA:1059:G:O6	24:BA:1060:U:H1'	1.90	0.71
24:BA:1083:U:H2'	24:BA:1084:A:H5''	1.72	0.71
24:BA:1044:G:N1	24:BA:1112:G:O2'	2.22	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1609:A:N7	24:BA:1616:A:N3	2.38	0.71
24:BA:1660:C:H42	24:BA:2001:A:N6	1.87	0.71
24:BA:1665:A:C8	24:BA:2726:U:N3	2.58	0.71
24:BA:1918:A:H3'	24:BA:1919:A:N7	2.05	0.71
24:BA:2090:G:C6	24:BA:2230:G:O6	2.44	0.71
24:BA:2262:U:H4'	24:BA:2328:A:H2	1.56	0.71
24:BA:226:G:C2	24:BA:227:A:N3	2.59	0.71
24:BA:2331:G:H2'	24:BA:2332:U:O4'	1.90	0.71
24:BA:2415:G:H5''	36:BO:61:ARG:CG	2.21	0.71
24:BA:2507:C:H5''	24:BA:2573:C:N4	2.01	0.71
3:AB:74:C:N4	24:BA:2555:U:C6	2.59	0.71
24:BA:2647:U:H2'	24:BA:2648:C:H6	1.55	0.71
24:BA:371:A:H62	24:BA:424:G:C4'	2.04	0.71
24:BA:459:U:C5	24:BA:469:G:N2	2.58	0.71
24:BA:786:C:C2'	24:BA:787:U:H5'	2.20	0.71
24:BA:791:C:C4	24:BA:794:G:H1'	2.26	0.71
25:BB:114:G:O4'	39:BR:47:THR:HB	1.91	0.71
25:BB:33:G:H2'	25:BB:34:U:H6	1.53	0.71
27:BD:7:LYS:HD3	27:BD:9:TYR:HH	1.54	0.71
28:BE:104:VAL:HG13	28:BE:198:VAL:HA	1.72	0.71
29:BF:89:VAL:CG1	29:BF:90:PHE:N	2.45	0.71
30:BG:34:LEU:HD13	30:BG:100:TRP:HE1	1.56	0.71
30:BG:118:ARG:CG	30:BG:119:GLY:N	2.54	0.71
30:BG:148:MET:HB3	30:BG:151:ALA:HB2	1.72	0.71
30:BG:148:MET:HG2	30:BG:151:ALA:N	2.06	0.71
30:BG:162:THR:C	30:BG:164:GLU:H	1.93	0.71
30:BG:9:ARG:HG2	30:BG:13:GLU:OE2	1.90	0.71
31:BH:76:VAL:HA	31:BH:79:VAL:HG22	1.73	0.71
33:BL:10:LEU:CD1	33:BL:23:VAL:HG22	2.21	0.71
24:BA:1059:G:O2'	33:BL:74:ALA:HB2	1.89	0.71
34:BM:112:LEU:O	34:BM:113:GLY:C	2.29	0.71
35:BN:67:LYS:CA	35:BN:67:LYS:HE2	2.21	0.71
36:BO:65:ARG:NH1	36:BO:67:MET:N	2.36	0.71
39:BR:23:ARG:O	39:BR:24:LEU:HD12	1.91	0.71
39:BR:6:ALA:HA	39:BR:9:ARG:HH12	1.53	0.71
40:BS:18:ASP:CG	40:BS:81:PRO:HG3	2.10	0.71
40:BS:30:VAL:HG13	40:BS:32:TYR:OH	1.90	0.71
41:BT:102:GLU:CB	41:BT:105:VAL:HB	2.20	0.71
42:BU:63:GLY:O	42:BU:97:LYS:HB2	1.91	0.71
26:BC:131:LEU:HD13	26:BC:137:LEU:HA	1.71	0.71
48:B1:5:LEU:O	48:B1:9:ARG:HG2	1.90	0.71
26:BC:148:ASN:ND2	26:BC:152:ILE:HG13	2.04	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1261:A:N6	1:AA:1274:G:C1'	2.50	0.71
1:AA:1276:G:H2'	1:AA:1277:C:O4'	1.90	0.71
1:AA:1327:C:H5''	23:AX:20:LYS:CE	2.19	0.71
1:AA:1394:A:N7	1:AA:1501:C:C1'	2.54	0.71
1:AA:452:A:H2'	1:AA:453:A:C8	2.26	0.71
1:AA:577:G:H21	1:AA:578:C:H1'	1.55	0.71
1:AA:762:C:H2'	1:AA:763:G:H8	1.53	0.71
1:AA:959:A:C3'	1:AA:960:U:H5''	2.18	0.71
4:AE:61:LEU:HD11	4:AE:68:ILE:HD11	1.73	0.71
6:AG:106:TYR:HB3	6:AG:114:ARG:HE	1.53	0.71
7:AH:35:GLY:HA3	7:AH:41:VAL:CG1	2.20	0.71
8:AI:68:PRO:O	8:AI:71:ARG:HG2	1.90	0.71
10:AK:104:ARG:HG2	10:AK:104:ARG:NH1	2.04	0.71
11:AL:6:GLY:HA2	11:AL:83:ARG:HB3	1.71	0.71
12:AM:79:ARG:HH22	12:AM:82:ILE:CD1	2.02	0.71
17:AR:36:ILE:HG22	17:AR:37:ASN:ND2	2.06	0.71
18:AS:56:ALA:O	18:AS:60:LEU:HG	1.90	0.71
18:AS:8:ARG:C	18:AS:9:PHE:HD2	1.93	0.71
19:AT:94:ASN:OD1	19:AT:104:LYS:HD2	1.91	0.71
19:AT:8:GLY:O	19:AT:56:VAL:HA	1.91	0.71
50:B3:58:ARG:O	50:B3:61:ARG:CB	2.25	0.71
52:B5:30:THR:CG2	52:B5:31:PRO:HD3	2.21	0.71
54:B7:26:LYS:HD2	54:B7:44:LYS:N	2.05	0.71
55:B8:17:ILE:HG13	55:B8:26:ILE:HB	1.72	0.71
24:BA:1274:A:C2	24:BA:1302:A:H2	2.08	0.71
24:BA:1332:G:C5	24:BA:1609:A:N6	2.58	0.71
24:BA:1453:A:N1	24:BA:1454:U:H1'	2.06	0.71
24:BA:1567:A:H2'	24:BA:1567:A:N3	2.05	0.71
24:BA:1827:C:H1'	24:BA:1970:A:H2	1.56	0.71
24:BA:1996:C:HO2'	28:BE:123:ALA:HB3	1.56	0.71
24:BA:578:A:C2	24:BA:2018:G:O4'	2.44	0.71
24:BA:2068:U:O2	24:BA:2430:A:N1	2.24	0.71
24:BA:2072:G:H2'	24:BA:2073:C:C6	2.26	0.71
24:BA:2282:G:H4'	24:BA:2283:C:OP2	1.88	0.71
24:BA:374:A:H3'	24:BA:375:C:C6	2.26	0.71
24:BA:411:G:N2	24:BA:2407:G:C6	2.59	0.71
24:BA:28:A:C1'	24:BA:513:A:N1	2.48	0.71
24:BA:801:G:N7	29:BF:54:ARG:HG2	2.06	0.71
27:BD:37:LEU:CD1	27:BD:63:ARG:HA	2.21	0.71
28:BE:51:PHE:CG	28:BE:52:LEU:N	2.58	0.71
28:BE:54:GLN:HB3	28:BE:57:LYS:HE2	1.71	0.71
28:BE:5:LEU:HD22	28:BE:5:LEU:O	1.90	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:34:TRP:HA	29:BF:34:TRP:CE3	2.25	0.71
30:BG:62:LEU:HD23	30:BG:143:GLU:HB2	1.71	0.71
31:BH:126:PRO:HG2	31:BH:132:ARG:NH2	2.06	0.71
31:BH:35:VAL:HG12	31:BH:71:LEU:HD23	1.72	0.71
34:BM:73:THR:HB	34:BM:75:TYR:CE1	2.22	0.71
35:BN:25:LEU:H	35:BN:39:ILE:HG22	1.55	0.71
37:BP:32:TYR:CE1	37:BP:106:VAL:HG23	2.25	0.71
37:BP:34:LEU:HD22	37:BP:118:LEU:HB3	1.72	0.71
46:BY:102:LEU:HB2	46:BY:124:ILE:HA	1.71	0.71
26:BC:165:ASN:HA	26:BC:170:ALA:O	1.91	0.71
39:BR:33:LYS:HG2	39:BR:54:LEU:HD11	1.72	0.71
1:AA:1037:C:N4	1:AA:1038:C:N4	2.39	0.71
1:AA:120:A:N7	1:AA:122:G:C6	2.58	0.71
1:AA:1283:G:O2'	1:AA:1284:C:H5'	1.91	0.71
1:AA:1465:C:O2	1:AA:1466:C:O4'	2.08	0.71
1:AA:14:U:H2'	1:AA:16:A:OP2	1.89	0.71
1:AA:267:C:C4	1:AA:268:C:N4	2.59	0.71
1:AA:447:G:O5'	1:AA:447:G:H8	1.74	0.71
1:AA:484:G:H5'	1:AA:486:U:H1'	1.70	0.71
1:AA:716:A:O2'	1:AA:717:C:H5'	1.91	0.71
1:AA:760:G:O2'	19:AT:103:GLY:HA3	1.91	0.71
3:AC:19:G:N2	30:BG:82:LEU:CD1	2.54	0.71
6:AG:191:ARG:HH11	6:AG:192:GLU:HA	1.54	0.71
8:AI:30:LEU:HB3	8:AI:35:ALA:HB3	1.72	0.71
10:AK:14:ARG:O	10:AK:18:ARG:NE	2.24	0.71
10:AK:70:GLN:NE2	10:AK:71:GLY:H	1.87	0.71
14:AO:72:GLY:HA3	14:AO:102:ARG:HD2	1.72	0.71
1:AA:582:U:C5'	17:AR:64:ARG:HH21	2.02	0.71
18:AS:20:VAL:HA	18:AS:36:ILE:HG12	1.72	0.71
19:AT:22:LEU:HD21	19:AT:39:SER:OG	1.91	0.71
24:BA:1809:A:H61	50:B3:3:GLU:CG	2.03	0.71
50:B3:58:ARG:N	50:B3:61:ARG:NH1	2.39	0.71
24:BA:1044:G:H4'	24:BA:1047:G:C1'	2.19	0.71
24:BA:1350:C:O2'	24:BA:1351:C:H5'	1.91	0.71
24:BA:1535:U:H2'	24:BA:1536:A:C1'	2.20	0.71
24:BA:1534:G:N2	24:BA:1537:C:H41	1.88	0.71
24:BA:1546:C:H4'	24:BA:1547:C:H5	1.55	0.71
24:BA:1617:C:H5'	24:BA:1618:A:OP2	1.91	0.71
24:BA:1899:G:N2	24:BA:1902:C:H41	1.88	0.71
24:BA:2283:C:C5	24:BA:2389:G:N3	2.59	0.71
24:BA:2756:U:H5'	55:B8:18:ARG:O	1.90	0.71
24:BA:323:G:N2	24:BA:333:G:H1'	2.06	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:37:C:H4'	24:BA:451:C:OP1	1.91	0.71
24:BA:556:G:H2'	24:BA:557:U:H6	1.54	0.71
24:BA:595:C:H2'	24:BA:596:G:H8	1.56	0.71
24:BA:688:U:O2'	24:BA:689:A:H5'	1.90	0.71
24:BA:1799:G:H22	27:BD:157:ARG:HH22	1.39	0.71
28:BE:119:ARG:CD	28:BE:155:LYS:HB3	2.21	0.71
28:BE:119:ARG:HD2	28:BE:156:MET:H	1.55	0.71
28:BE:93:VAL:HG13	28:BE:180:ASN:HD21	1.53	0.71
28:BE:47:VAL:HG13	28:BE:79:ARG:HB2	1.73	0.71
30:BG:86:MET:H	30:BG:87:PRO:CD	2.04	0.71
33:BL:24:GLY:HA2	33:BL:34:ILE:CG1	2.20	0.71
33:BL:79:ARG:HH11	33:BL:87:GLY:HA2	1.55	0.71
34:BM:17:ASP:HB3	34:BM:21:LYS:CE	2.21	0.71
34:BM:37:LYS:HE2	34:BM:43:THR:HG22	1.73	0.71
34:BM:71:ILE:O	34:BM:85:ILE:HD12	1.91	0.71
35:BN:73:ASP:O	40:BS:79:HIS:CE1	2.43	0.71
37:BP:35:VAL:HG12	37:BP:130:LYS:O	1.90	0.71
37:BP:46:GLN:OE1	37:BP:126:PRO:HB3	1.90	0.71
38:BQ:105:ARG:CA	38:BQ:105:ARG:CZ	2.65	0.71
39:BR:60:GLY:C	39:BR:62:LYS:H	1.93	0.71
39:BR:57:LYS:HG3	39:BR:68:GLN:OE1	1.90	0.71
43:BV:28:SER:HB2	43:BV:69:LEU:O	1.91	0.71
43:BV:66:GLU:HA	43:BV:69:LEU:HD13	1.71	0.71
43:BV:72:LYS:O	43:BV:73:ALA:O	2.09	0.71
26:BC:100:ILE:HA	26:BC:103:ILE:HD12	1.73	0.71
24:BA:1483:G:N3	24:BA:1483:G:H2'	2.06	0.71
1:AA:1054:C:N4	3:AB:34:G:O2'	2.24	0.71
1:AA:1126:U:O2'	1:AA:1127:G:H5'	1.91	0.71
1:AA:129(A):G:O2'	1:AA:130:A:OP2	2.07	0.71
1:AA:1492:A:N6	14:AO:50:SER:CB	2.54	0.71
1:AA:498:A:H4'	1:AA:500:G:H5'	1.72	0.71
1:AA:703:G:O2'	1:AA:704:A:OP2	2.07	0.71
1:AA:922:G:N2	1:AA:923:A:H1'	2.06	0.71
1:AA:949:A:H2'	1:AA:950:U:C6	2.26	0.71
4:AE:185:ILE:HG22	4:AE:199:TYR:HB2	1.73	0.71
6:AG:139:ARG:HG2	6:AG:140:VAL:N	2.06	0.71
6:AG:61:LYS:N	6:AG:203:VAL:HG22	2.06	0.71
7:AH:133:TYR:HD2	7:AH:136:MET:HG3	1.56	0.71
9:AJ:5:ARG:CD	9:AJ:7:ALA:H	2.03	0.71
10:AK:120:THR:N	10:AK:123:GLU:OE1	2.23	0.71
11:AL:48:GLU:N	11:AL:49:PRO:HD2	2.05	0.71
12:AM:61:GLU:HG2	12:AM:62:HIS:N	2.04	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:AR:15:PHE:CD1	17:AR:30:ALA:HB2	2.25	0.71
20:AU:37:VAL:HG12	20:AU:41:LYS:HE3	1.72	0.71
51:B4:41:PRO:O	51:B4:42:PRO:O	2.09	0.71
38:BQ:100:LEU:O	51:B4:44:THR:HG22	1.90	0.71
24:BA:1029:A:O5'	24:BA:1029:A:H8	1.72	0.71
24:BA:85:G:N3	24:BA:103:A:H2	1.88	0.71
24:BA:1081:U:O4	24:BA:1086:A:C2	2.43	0.71
24:BA:1182:A:C3'	24:BA:1183:G:H3'	2.19	0.71
24:BA:1286:A:N3	24:BA:1329:U:C4	2.58	0.71
24:BA:1312:U:H3'	24:BA:1313:U:H5	1.51	0.71
24:BA:1464:C:H4'	24:BA:1528:A:H1'	1.70	0.71
24:BA:1617:C:C4'	24:BA:1617:C:OP2	2.38	0.71
24:BA:1697:G:C3'	24:BA:1698:A:C5'	2.62	0.71
24:BA:1937:A:C2'	24:BA:1938:A:OP1	2.38	0.71
24:BA:202:U:H2'	24:BA:203:C:C6	2.26	0.71
24:BA:2311:A:C3'	24:BA:2312:U:H5	2.03	0.71
24:BA:2329:G:H1	24:BA:2386:C:H42	1.34	0.71
24:BA:2352:A:N7	24:BA:2366:A:C6	2.59	0.71
24:BA:2721:A:H2'	24:BA:2722:G:C8	2.26	0.71
24:BA:586:A:C6	24:BA:1254:A:C2	2.78	0.71
24:BA:989:G:OP1	49:B2:31:LEU:HD23	1.90	0.71
24:BA:996:A:H4'	41:BT:93:LYS:CG	2.20	0.71
27:BD:46:GLN:C	27:BD:48:ARG:N	2.41	0.71
28:BE:112:GLY:C	28:BE:113:PHE:CD1	2.65	0.71
28:BE:147:PRO:HG2	28:BE:149:ARG:HD2	1.72	0.71
28:BE:60:ASN:CG	28:BE:61:ARG:N	2.44	0.71
31:BH:132:ARG:N	31:BH:132:ARG:HD3	2.06	0.71
31:BH:7:LEU:CG	31:BH:51:ARG:HH21	2.04	0.71
35:BN:90:GLN:O	35:BN:91:LEU:C	2.29	0.71
37:BP:37:LEU:HA	37:BP:100:GLY:HA2	1.72	0.71
37:BP:46:GLN:OE1	37:BP:125:LEU:C	2.28	0.71
37:BP:36:ALA:C	37:BP:100:GLY:HA2	2.11	0.71
41:BT:92:ARG:HA	41:BT:95:LEU:HG	1.73	0.71
41:BT:98:LEU:HA	41:BT:101:ARG:HG2	1.71	0.71
24:BA:993:G:H1'	42:BU:91:TYR:HE2	1.54	0.71
24:BA:1598:C:C5'	44:BW:36:LYS:HB3	2.16	0.71
24:BA:1340:U:H5	44:BW:57:LEU:HG	1.54	0.71
46:BY:29:TYR:HD1	46:BY:34:ASN:HD22	1.39	0.71
46:BY:56:VAL:O	46:BY:57:ILE:O	2.09	0.71
24:BA:2111:C:OP2	24:BA:2111:C:C6	2.44	0.71
24:BA:2143:C:N4	24:BA:2144:U:O4	2.24	0.71
48:B1:3:LYS:HA	48:B1:6:GLU:HG2	1.72	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:BL:95:LYS:HD3	33:BL:98:ARG:NH2	2.06	0.71
24:BA:131:G:H2'	24:BA:132:G:C8	2.26	0.71
24:BA:131:G:H2'	24:BA:132:G:H8	1.55	0.71
1:AA:1324:A:O4'	1:AA:1362:C:H4'	1.91	0.70
1:AA:330:C:O2'	1:AA:331:G:H5'	1.90	0.70
1:AA:624:C:H2'	1:AA:625:G:H8	1.56	0.70
1:AA:695:A:H2'	1:AA:696:A:O4'	1.91	0.70
1:AA:795:C:H4'	1:AA:1506:U:C2	2.27	0.70
1:AA:970:C:N3	15:AP:126:LYS:NZ	2.39	0.70
5:AF:70:VAL:O	5:AF:105:GLU:HA	1.91	0.70
5:AF:29:TYR:HD2	5:AF:29:TYR:O	1.72	0.70
6:AG:135:LEU:C	6:AG:137:SER:H	1.92	0.70
6:AG:141:ARG:O	6:AG:143:GLY:N	2.23	0.70
6:AG:63:LYS:HG2	6:AG:64:LEU:N	2.06	0.70
7:AH:81:GLU:CB	7:AH:90:VAL:HG22	2.21	0.70
9:AJ:111:ARG:NH1	9:AJ:111:ARG:HB3	2.05	0.70
18:AS:51:VAL:HG21	18:AS:73:LEU:HD11	1.72	0.70
20:AU:74:ARG:HG3	20:AU:79:LEU:CD2	2.19	0.70
53:B6:28:ARG:CA	53:B6:31:LEU:HD12	2.04	0.70
24:BA:1142(A):A:C6	24:BA:1143:A:C8	2.79	0.70
24:BA:1174:A:N3	24:BA:1174:A:H2'	2.06	0.70
24:BA:1205:U:O2'	24:BA:1206:G:N7	2.24	0.70
24:BA:1661:G:H2'	24:BA:1662:C:H6	1.55	0.70
24:BA:1813:G:HO2'	27:BD:46:GLN:HG2	1.55	0.70
24:BA:1952:A:H2	35:BN:22:ILE:HG12	1.53	0.70
24:BA:200:U:H5'	24:BA:201:C:OP2	1.91	0.70
24:BA:2241:A:H2'	24:BA:2242:G:C8	2.25	0.70
24:BA:2344:U:O2	24:BA:2344:U:H3'	1.91	0.70
24:BA:2469:A:H5'	24:BA:2469:A:C8	2.23	0.70
24:BA:2519:U:N1	24:BA:2542:A:N1	2.39	0.70
24:BA:282:A:H2'	24:BA:284:U:OP1	1.91	0.70
24:BA:498:G:H8	24:BA:498:G:O5'	1.74	0.70
24:BA:619:G:N7	24:BA:620:G:C2	2.59	0.70
24:BA:603:A:H61	24:BA:624:C:N4	1.86	0.70
24:BA:648:G:N3	24:BA:649:G:C8	2.59	0.70
24:BA:668:G:C2	24:BA:670:A:C6	2.79	0.70
24:BA:1775:U:C5	27:BD:208:LYS:HD2	2.25	0.70
24:BA:2227:A:H1'	27:BD:262:ARG:HH11	1.55	0.70
27:BD:59:LYS:O	27:BD:59:LYS:HE3	1.91	0.70
24:BA:2810:A:O2'	28:BE:61:ARG:NH2	2.24	0.70
29:BF:110:LEU:CD2	29:BF:186:ILE:HD11	2.21	0.70
29:BF:56:GLU:O	29:BF:57:VAL:C	2.28	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:80:ALA:N	29:BF:83:PHE:HE2	1.86	0.70
33:BL:105:LEU:O	33:BL:109:LYS:HG3	1.91	0.70
33:BL:23:VAL:HA	33:BL:27:LEU:HG	1.72	0.70
35:BN:106:LEU:O	35:BN:109:LYS:HA	1.90	0.70
24:BA:2685:G:H4'	35:BN:66:LYS:HE3	1.71	0.70
40:BS:7:ILE:O	40:BS:8:LYS:C	2.30	0.70
41:BT:50:ARG:HD3	41:BT:50:ARG:H	1.55	0.70
43:BV:13:SER:OG	43:BV:14:PRO:CD	2.36	0.70
26:BC:42:GLU:OE2	26:BC:174:PRO:HB3	1.91	0.70
24:BA:1284:A:N1	24:BA:1285:G:N2	2.39	0.70
1:AA:1115:C:H2'	1:AA:1116:C:C6	2.26	0.70
1:AA:1128:C:H1'	1:AA:1146:A:N6	2.02	0.70
1:AA:1157:A:N3	1:AA:1157:A:H2'	2.05	0.70
1:AA:1306:A:N6	1:AA:1331:G:H1'	2.07	0.70
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.26	0.70
6:AG:76:ARG:O	6:AG:79:PHE:HB3	1.91	0.70
8:AI:10:LEU:HD21	8:AI:61:LEU:HG	1.72	0.70
8:AI:62:TRP:CZ2	8:AI:64:GLN:HB2	2.26	0.70
9:AJ:104:LEU:HD23	9:AJ:134:ALA:HB1	1.73	0.70
9:AJ:42:ILE:HG22	9:AJ:120:ILE:HD11	1.73	0.70
10:AK:70:GLN:HE22	10:AK:72:PRO:HD2	1.54	0.70
11:AL:15:ALA:HB1	11:AL:77:ILE:HG13	1.73	0.70
12:AM:15:THR:HG23	12:AM:16:LEU:CD2	2.21	0.70
13:AN:54:ARG:O	13:AN:57:THR:HG22	1.90	0.70
14:AO:58:VAL:CG1	14:AO:59:ARG:N	2.54	0.70
20:AU:70:ILE:CG2	20:AU:74:ARG:HE	2.01	0.70
48:B1:36:ILE:HG23	48:B1:37:GLY:N	2.06	0.70
52:B5:38:LYS:O	52:B5:49:HIS:HB3	1.91	0.70
54:B7:60:LEU:HD21	54:B7:64:TYR:O	1.91	0.70
24:BA:10:G:H2'	24:BA:11:G:H8	1.55	0.70
24:BA:1263:U:H5	24:BA:1265:A:N6	1.88	0.70
24:BA:1306:C:O2'	24:BA:1307:A:H5'	1.91	0.70
24:BA:1335:U:OP1	44:BW:65:ARG:HG3	1.91	0.70
24:BA:1672:C:C5	24:BA:1673:U:C6	2.79	0.70
24:BA:1935:G:H2'	24:BA:1962:C:H42	1.53	0.70
24:BA:1773:A:H2	24:BA:1977:A:H61	1.37	0.70
24:BA:2226:C:O2	24:BA:2227:A:C1'	2.39	0.70
24:BA:270(Q):C:O2'	24:BA:270(R):G:H5'	1.91	0.70
24:BA:280:C:H5''	24:BA:282:A:OP1	1.91	0.70
24:BA:296:C:O2'	24:BA:297:C:O4'	2.09	0.70
24:BA:29:U:OP1	24:BA:583:G:H4'	1.91	0.70
24:BA:324:A:N7	24:BA:340:A:H1'	2.05	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:534:U:H2'	24:BA:535:C:C5	2.26	0.70
24:BA:572:A:N7	24:BA:573:G:C6	2.59	0.70
24:BA:609:A:H61	24:BA:619:G:N2	1.89	0.70
24:BA:663:G:H4'	36:BO:18:ARG:NE	2.06	0.70
24:BA:750:A:OP1	43:BV:88:ARG:NH1	2.24	0.70
24:BA:779:U:O4	24:BA:780:G:C2	2.44	0.70
27:BD:91:ARG:CZ	27:BD:198:ASN:ND2	2.54	0.70
27:BD:5:LYS:CD	27:BD:29:PRO:HB3	2.18	0.70
27:BD:54:ARG:HB3	27:BD:218:ARG:HB3	1.72	0.70
27:BD:5:LYS:CA	27:BD:29:PRO:HD3	2.21	0.70
28:BE:14:ILE:HD11	40:BS:14:TYR:HB3	1.73	0.70
28:BE:91:VAL:HG23	28:BE:180:ASN:OD1	1.91	0.70
31:BH:113:VAL:HG12	31:BH:113:VAL:O	1.91	0.70
31:BH:119:GLU:O	31:BH:121:ILE:N	2.24	0.70
31:BH:15:VAL:HG13	31:BH:17:VAL:HB	1.74	0.70
31:BH:60:ARG:HG2	31:BH:64:LEU:HD12	1.72	0.70
34:BM:54:VAL:CG1	34:BM:122:VAL:HB	2.21	0.70
34:BM:74:ARG:HE	34:BM:82:LEU:HD11	1.54	0.70
36:BO:124:LYS:HA	36:BO:143:GLY:HA3	1.72	0.70
38:BQ:97:VAL:HA	38:BQ:114:VAL:CG2	2.20	0.70
24:BA:535:C:C5'	41:BT:49:HIS:HB3	2.20	0.70
41:BT:50:ARG:NH2	42:BU:75:PHE:CD2	2.59	0.70
45:BX:77:PRO:HG2	45:BX:78:ALA:H	1.55	0.70
45:BX:97:ARG:CZ	45:BX:101:LYS:HG2	2.21	0.70
46:BY:96:VAL:O	46:BY:128:VAL:HA	1.92	0.70
26:BC:86:ALA:HB1	26:BC:153:ILE:HD12	1.73	0.70
24:BA:1116:C:H2'	24:BA:1117:G:C8	2.26	0.70
1:AA:1382:C:H2'	1:AA:1383:C:H6	1.56	0.70
1:AA:1032:A:C5	1:AA:1032(A):G:H1'	2.26	0.70
1:AA:1128:C:C5	1:AA:1139:G:O6	2.44	0.70
1:AA:1200:C:O5'	1:AA:1202:G:OP1	2.08	0.70
1:AA:1320:C:H42	21:AV:36:ARG:NH1	1.86	0.70
1:AA:335:C:O2'	1:AA:1433:A:N3	2.21	0.70
1:AA:26:A:H61	1:AA:558:G:C2'	2.03	0.70
1:AA:517:G:N2	1:AA:533:A:P	2.64	0.70
1:AA:858:G:H22	1:AA:870:U:P	2.15	0.70
1:AA:878:G:H2'	1:AA:879:C:H6	1.54	0.70
1:AA:970:C:H5''	1:AA:971:G:OP1	1.90	0.70
3:AC:67:C:H2'	3:AC:68:C:C6	2.26	0.70
4:AE:16:HIS:CA	4:AE:204:ASN:HB2	2.20	0.70
7:AH:86:ALA:O	7:AH:125:SER:HB3	1.91	0.70
10:AK:85:ARG:HD2	10:AK:134:ILE:O	1.90	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AO:48:PRO:HG2	14:AO:49:ASN:H	1.56	0.70
15:AP:98:VAL:CG2	15:AP:110:ARG:HH21	2.03	0.70
17:AR:11:VAL:HA	17:AR:14:GLU:OE2	1.91	0.70
17:AR:15:PHE:HD1	17:AR:30:ALA:HB2	1.55	0.70
1:AA:192:U:H5'	22:AW:102:GLY:CA	2.21	0.70
49:B2:7:LYS:HB3	49:B2:55:ARG:HB3	1.74	0.70
54:B7:30:ARG:O	54:B7:32:LEU:HG	1.91	0.70
55:B8:10:ILE:H	55:B8:14:CYS:HB2	1.56	0.70
55:B8:20:HIS:C	55:B8:22:ARG:N	2.45	0.70
24:BA:1606:G:H4'	24:BA:1608:A:N3	2.06	0.70
24:BA:1730:U:O2'	24:BA:1731:G:C5	2.44	0.70
24:BA:1813:G:O2'	27:BD:46:GLN:HG2	1.91	0.70
24:BA:1933:G:N2	24:BA:1974:C:H5'	2.01	0.70
24:BA:2417:C:H2'	24:BA:2418:A:H8	1.54	0.70
24:BA:2597:G:C5'	27:BD:242:ARG:HG2	2.20	0.70
24:BA:270(E):G:H2'	24:BA:270(F):U:H6	1.56	0.70
24:BA:280:C:H41	24:BA:283:A:H62	1.38	0.70
24:BA:2850:A:H2'	24:BA:2851:A:H8	1.56	0.70
24:BA:307:G:N2	24:BA:310:A:C8	2.60	0.70
24:BA:336:C:H4'	45:BX:67:LEU:CD2	2.21	0.70
24:BA:569:U:H1'	24:BA:947:G:H1'	1.73	0.70
24:BA:709:U:H2'	24:BA:710:G:C8	2.26	0.70
24:BA:957:A:C2	24:BA:2459:A:H5''	2.27	0.70
24:BA:991:C:OP2	24:BA:1186:G:OP2	2.09	0.70
27:BD:226:MET:CE	27:BD:237:GLU:O	2.39	0.70
24:BA:1798:U:C5'	27:BD:257:LEU:HD12	2.20	0.70
28:BE:22:PRO:HA	28:BE:185:LYS:CA	2.21	0.70
29:BF:142:TRP:O	29:BF:145:GLU:HB2	1.91	0.70
30:BG:17:PRO:HA	30:BG:20:ILE:HB	1.73	0.70
30:BG:68:PRO:HB3	30:BG:72:ARG:CZ	2.21	0.70
24:BA:1012:U:C4	34:BM:25:ARG:HB3	2.27	0.70
35:BN:64:ARG:HE	35:BN:67:LYS:N	1.90	0.70
35:BN:88:ASN:O	35:BN:90:GLN:N	2.24	0.70
36:BO:96:THR:HG22	36:BO:99:LEU:HD12	1.71	0.70
37:BP:56:ARG:HD2	37:BP:57:HIS:N	2.07	0.70
39:BR:9:ARG:HH11	39:BR:9:ARG:N	1.88	0.70
24:BA:18:C:OP1	41:BT:26:GLY:HA2	1.90	0.70
24:BA:1322:A:P	43:BV:11:ARG:HH11	2.14	0.70
45:BX:28:LYS:HG2	45:BX:28:LYS:O	1.92	0.70
47:BZ:19:LYS:CG	47:BZ:20:ARG:H	2.03	0.70
26:BC:6:ARG:NH1	26:BC:7:TYR:HA	2.06	0.70
24:BA:1579:A:N7	24:BA:1580:A:N3	2.38	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BK:135:GLU:OE1	32:BK:135:GLU:N	2.24	0.70
1:AA:1062:U:C2'	1:AA:1063:C:C5	2.67	0.70
1:AA:47:C:C4'	1:AA:48:C:H5''	2.17	0.70
1:AA:893:C:O2'	1:AA:894:G:H5'	1.92	0.70
4:AE:48:MET:HA	4:AE:51:LEU:CD1	2.20	0.70
5:AF:77:ILE:HD11	5:AF:103:VAL:HG21	1.72	0.70
6:AG:20:TYR:CA	6:AG:26:CYS:O	2.39	0.70
6:AG:58:LEU:HD13	6:AG:58:LEU:C	2.12	0.70
10:AK:29:SER:HB2	10:AK:32:LYS:NZ	2.05	0.70
10:AK:92:ARG:HD2	10:AK:92:ARG:N	2.04	0.70
13:AN:30:VAL:O	13:AN:42:TRP:HB2	1.91	0.70
14:AO:27:LEU:HD23	14:AO:33:ARG:HD3	1.74	0.70
21:AV:40:ILE:HB	21:AV:67:VAL:O	1.91	0.70
48:B1:19:LEU:HD13	48:B1:20:VAL:N	2.05	0.70
50:B3:64:GLY:O	50:B3:68:ARG:CZ	2.40	0.70
51:B4:50:GLY:O	51:B4:55:ARG:HA	1.92	0.70
52:B5:44:ARG:HB2	52:B5:47:THR:CG2	2.22	0.70
24:BA:1005:C:C5	24:BA:1143:A:OP1	2.41	0.70
24:BA:1264:G:N7	24:BA:1265:A:C4	2.59	0.70
24:BA:1332:G:C4	24:BA:1609:A:N1	2.59	0.70
24:BA:1479:G:N2	24:BA:1515:C:C2	2.59	0.70
24:BA:2051:A:C6	24:BA:2614:A:C5	2.79	0.70
24:BA:2075:U:H5	24:BA:2435:A:C2	2.09	0.70
24:BA:2225:A:H4'	24:BA:2226:C:O5'	1.90	0.70
24:BA:2278:A:N7	47:BZ:14:ARG:HB3	2.06	0.70
24:BA:2286:A:O3'	24:BA:2287:A:O4'	2.09	0.70
24:BA:2373:G:O2'	24:BA:2374:C:O5'	2.09	0.70
24:BA:2408:U:O5'	24:BA:2408:U:C6	2.43	0.70
24:BA:2077:A:H1'	24:BA:2434:A:O2'	1.91	0.70
24:BA:248:G:N3	24:BA:2431:U:C5'	2.51	0.70
24:BA:2578:G:HO2'	24:BA:2579:C:H6	1.38	0.70
24:BA:2652:C:H2'	24:BA:2653:U:C6	2.26	0.70
24:BA:312:G:H3'	24:BA:313:C:H5	1.55	0.70
24:BA:373:U:H4'	24:BA:374:A:C8	2.26	0.70
24:BA:469:G:N2	53:B6:40:TRP:CZ2	2.52	0.70
24:BA:557:U:H4'	34:BM:112:LEU:HD21	1.72	0.70
24:BA:562:U:O2	24:BA:572:A:C1'	2.39	0.70
25:BB:114:G:H2'	25:BB:115:G:O4'	1.91	0.70
27:BD:54:ARG:CA	27:BD:219:PRO:HG2	2.18	0.70
27:BD:258:LYS:HA	27:BD:261:LYS:HZ2	1.56	0.70
28:BE:152:LYS:O	28:BE:152:LYS:HD2	1.91	0.70
28:BE:36:ARG:CD	28:BE:41:LYS:HZ1	2.04	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2787:C:C1'	28:BE:61:ARG:HD2	2.21	0.70
31:BH:35:VAL:HG11	31:BH:72:ILE:CA	2.12	0.70
33:BL:52:ILE:HD12	33:BL:76:TYR:HD2	1.56	0.70
24:BA:558:G:OP1	34:BM:111:PRO:HG2	1.91	0.70
34:BM:37:LYS:HD2	34:BM:43:THR:CA	2.21	0.70
34:BM:10:GLU:CD	34:BM:39:ARG:HD2	2.11	0.70
35:BN:8:LEU:HD13	35:BN:9:GLU:O	1.92	0.70
36:BO:111:ARG:NH2	36:BO:113:LYS:HB2	2.07	0.70
36:BO:126:VAL:HG23	36:BO:146:VAL:O	1.92	0.70
36:BO:76:LYS:HA	36:BO:101:VAL:CG1	2.21	0.70
37:BP:35:VAL:HG23	37:BP:101:ARG:C	2.10	0.70
37:BP:112:GLU:C	37:BP:115:MET:HB2	2.10	0.70
24:BA:2468:G:H4'	37:BP:120:ILE:HD13	1.73	0.70
46:BY:129:SER:HB3	46:BY:133:ILE:CG2	2.21	0.70
32:BK:66:GLU:HG3	32:BK:69:LYS:NZ	2.06	0.70
32:BK:87:LYS:HB3	32:BK:121:LYS:HE2	1.74	0.70
24:BA:2178:C:H5''	26:BC:46:LYS:HG2	1.73	0.70
39:BR:33:LYS:HG2	39:BR:54:LEU:CD1	2.21	0.70
1:AA:1306:A:H2'	1:AA:1307:U:O4'	1.91	0.70
1:AA:1326:C:H5''	23:AX:12:LYS:NZ	2.07	0.70
1:AA:1494:G:N2	1:AA:1495:U:C4	2.58	0.70
1:AA:197:A:P	1:AA:197:A:O4'	2.50	0.70
1:AA:719:C:H3'	1:AA:720:C:C6	2.26	0.70
4:AE:54:THR:CG2	4:AE:201:ILE:HD11	2.19	0.70
5:AF:187:ALA:H	5:AF:198:VAL:HG22	1.56	0.70
8:AI:14:LEU:HD12	8:AI:15:ASP:O	1.91	0.70
10:AK:47:GLY:O	10:AK:61:VAL:HG13	1.91	0.70
12:AM:82:ILE:HG23	12:AM:86:MET:SD	2.31	0.70
15:AP:13:LYS:O	15:AP:14:ARG:O	2.09	0.70
1:AA:1312:G:N7	21:AV:3:ARG:O	2.24	0.70
44:BW:7:VAL:HG21	48:B1:28:MET:HG2	1.73	0.70
52:B5:50:ARG:NH2	52:B5:52:VAL:HG21	2.05	0.70
54:B7:38:GLY:O	54:B7:41:ILE:HG12	1.91	0.70
24:BA:1057:A:H2'	24:BA:1058:G:H8	1.55	0.70
24:BA:126:A:N7	24:BA:127:A:C5	2.60	0.70
24:BA:1324:G:H5''	24:BA:1325:G:O2'	1.91	0.70
24:BA:1918:A:N7	24:BA:1919:A:N6	2.40	0.70
24:BA:2024:G:H2'	24:BA:2025:C:O4'	1.89	0.70
24:BA:299:A:O2'	24:BA:319:C:H4'	1.91	0.70
24:BA:464:U:H2'	24:BA:465:G:C8	2.26	0.70
24:BA:58:G:H1'	24:BA:70:G:N2	2.07	0.70
24:BA:652:C:H6	24:BA:652:C:O5'	1.73	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:760:G:H2'	24:BA:761:A:H5'	1.72	0.70
24:BA:783:A:O2'	24:BA:784:A:OP1	2.08	0.70
25:BB:27:C:H3'	25:BB:28:C:C6	2.26	0.70
27:BD:164:GLN:HB3	27:BD:176:ARG:HB3	1.72	0.70
27:BD:177:LEU:HD11	27:BD:268:ARG:CZ	2.20	0.70
27:BD:75:ILE:HD13	27:BD:99:ASP:HB3	1.72	0.70
28:BE:176:ILE:HG21	28:BE:181:LEU:HB2	1.73	0.70
31:BH:43:VAL:CG1	31:BH:44:VAL:N	2.54	0.70
31:BH:11:VAL:HB	31:BH:50:VAL:CG2	2.21	0.70
32:BK:21:VAL:HG11	32:BK:30:LEU:HG	1.71	0.70
34:BM:78:TYR:CB	34:BM:79:PRO:HD2	2.21	0.70
35:BN:7:TYR:CB	35:BN:18:LYS:HE3	2.22	0.70
35:BN:9:GLU:CB	35:BN:82:ASN:HB3	2.17	0.70
38:BQ:90:ARG:NH2	38:BQ:117:VAL:HG13	2.06	0.70
40:BS:108:ARG:H	40:BS:108:ARG:HH11	1.39	0.70
40:BS:65:LYS:HA	40:BS:76:PHE:O	1.90	0.70
41:BT:50:ARG:CB	41:BT:50:ARG:HH11	2.04	0.70
42:BU:20:LEU:HB3	42:BU:95:LEU:HD13	1.74	0.70
41:BT:94:ASN:HD22	42:BU:6:LYS:NZ	1.89	0.70
44:BW:73:ARG:CG	44:BW:74:PRO:HD2	2.22	0.70
46:BY:15:PRO:O	46:BY:18:LEU:HB2	1.90	0.70
24:BA:2127:G:O2'	24:BA:2128:C:H5'	1.91	0.70
3:AC:44:G:H2'	3:AC:45:U:O4'	1.91	0.70
1:AA:1196:U:H6	1:AA:1196:U:H3'	1.54	0.70
1:AA:1407:C:O2'	1:AA:1408:A:H5'	1.92	0.70
1:AA:168:G:N1	1:AA:169:C:N4	2.40	0.70
1:AA:540:G:C6	1:AA:541:G:C5	2.80	0.70
1:AA:787:A:H2'	1:AA:788:U:C5'	2.21	0.70
1:AA:959:A:H2'	1:AA:960:U:C4'	2.21	0.70
3:AB:10:G:H2'	3:AB:11:C:H6	1.56	0.70
4:AE:115:LEU:HB2	4:AE:145:LEU:HG	1.74	0.70
4:AE:24:TRP:CZ3	4:AE:26:PRO:HA	2.27	0.70
7:AH:9:LYS:HG3	7:AH:112:LEU:HG	1.73	0.70
8:AI:48:LEU:CB	20:AU:78:LEU:HD23	2.20	0.70
9:AJ:141:VAL:O	9:AJ:144:MET:HE2	1.91	0.70
9:AJ:38:LEU:HA	9:AJ:41:ARG:CG	2.22	0.70
10:AK:9:MET:HG2	10:AK:13:ILE:CD1	2.21	0.70
1:AA:624:C:H4'	18:AS:10:GLY:O	1.90	0.70
19:AT:82:MET:HA	19:AT:85:VAL:CG2	2.20	0.70
20:AU:46:GLU:H	20:AU:49:LYS:NZ	1.89	0.70
54:B7:22:VAL:N	54:B7:48:PHE:CE1	2.59	0.70
24:BA:1160:G:H2'	24:BA:1161:C:C5	2.26	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1213:A:H61	24:BA:1236:G:H1'	1.55	0.70
24:BA:1313:U:H2'	24:BA:1314:C:H6	1.55	0.70
24:BA:1473:G:H2'	24:BA:1474:C:C6	2.26	0.70
24:BA:1735:C:N4	24:BA:1741:C:N4	2.39	0.70
24:BA:1856:G:H2'	24:BA:1857:G:C5'	2.20	0.70
24:BA:1906:G:C8	24:BA:1929:G:H2'	2.26	0.70
24:BA:1995:U:C5	24:BA:1996:C:C5	2.80	0.70
24:BA:2083:G:C2	24:BA:2084:C:C2	2.80	0.70
24:BA:2378:A:N1	24:BA:2379:G:H1'	2.05	0.70
24:BA:2484:G:C2'	24:BA:2485:G:H5'	2.22	0.70
24:BA:2485:G:O2'	24:BA:2486:G:H5'	1.92	0.70
24:BA:2503:A:O2'	24:BA:2504:U:OP1	2.09	0.70
24:BA:2616:C:H2'	24:BA:2617:C:C6	2.27	0.70
24:BA:270(Q):C:C2	24:BA:270(R):G:C8	2.79	0.70
24:BA:297:C:N4	24:BA:298:G:C2	2.59	0.70
24:BA:308:G:H22	24:BA:329:G:H2'	1.55	0.70
24:BA:526:A:H5''	24:BA:527:C:OP2	1.91	0.70
24:BA:532:A:H4'	24:BA:532:A:OP1	1.92	0.70
24:BA:720:C:H2'	24:BA:721:C:H6	1.56	0.70
24:BA:979:G:N7	24:BA:981:A:OP1	2.25	0.70
27:BD:92:ILE:HA	27:BD:107:ALA:HB2	1.72	0.70
28:BE:149:ARG:HE	28:BE:150:VAL:C	1.95	0.70
28:BE:171:GLU:HB2	28:BE:185:LYS:NZ	2.06	0.70
31:BH:71:LEU:O	31:BH:74:ASN:HB3	1.91	0.70
31:BH:99:VAL:HG23	31:BH:104:GLU:HG2	1.74	0.70
33:BL:112:MET:HE1	33:BL:119:ASP:N	2.07	0.70
33:BL:17:ALA:CB	33:BL:38:VAL:HG13	2.18	0.70
35:BN:79:PHE:HB2	40:BS:73:GLU:CD	2.12	0.70
36:BO:126:VAL:HB	36:BO:146:VAL:N	2.06	0.70
36:BO:45:LEU:HB3	36:BO:46:LYS:CE	2.21	0.70
37:BP:45:GLN:O	37:BP:48:GLU:N	2.24	0.70
37:BP:55:VAL:HG22	37:BP:64:ILE:HD11	1.73	0.70
38:BQ:61:HIS:O	38:BQ:64:ARG:HD3	1.91	0.70
38:BQ:96:ARG:HB2	38:BQ:117:VAL:HB	1.73	0.70
41:BT:70:ARG:HB2	41:BT:70:ARG:CZ	2.22	0.70
42:BU:62:LEU:HB2	42:BU:64:HIS:ND1	2.05	0.70
46:BY:95:PRO:CG	46:BY:131:ARG:H	2.03	0.70
3:AB:69:G:H2'	3:AB:70:G:O4'	1.92	0.70
24:BA:1418:G:N3	24:BA:1581:G:N2	2.40	0.70
1:AA:1068:G:H2'	1:AA:1069:C:H6	1.56	0.70
1:AA:1274:G:H22	1:AA:1275:A:H62	1.38	0.70
1:AA:275:G:H5'	19:AT:14:LYS:HZ2	1.53	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:659:U:H2'	1:AA:660:G:C8	2.26	0.70
1:AA:711:G:O2'	1:AA:712:A:H5'	1.92	0.70
1:AA:745:C:H5''	1:AA:851:G:H1'	1.72	0.70
1:AA:891:U:H5	1:AA:906:G:N1	1.89	0.70
5:AF:38:ARG:HB2	5:AF:94:LEU:CD1	2.22	0.70
1:AA:403:C:O2'	6:AG:122:ARG:CZ	2.39	0.70
6:AG:187:ARG:HE	6:AG:188:LEU:HG	1.57	0.70
7:AH:98:THR:HG21	7:AH:119:LEU:HD21	1.72	0.70
10:AK:10:LEU:HA	10:AK:13:ILE:HD12	1.74	0.70
10:AK:119:LEU:HB3	10:AK:123:GLU:OE1	1.91	0.70
10:AK:50:ARG:NH1	10:AK:50:ARG:HG2	2.03	0.70
14:AO:100:ILE:HD13	14:AO:100:ILE:N	2.06	0.70
14:AO:68:ALA:HB1	14:AO:99:HIS:HA	1.73	0.70
16:AQ:51:GLY:C	16:AQ:53:LEU:H	1.92	0.70
18:AS:51:VAL:CG2	18:AS:73:LEU:HD11	2.22	0.70
20:AU:33:ASP:OD2	20:AU:36:ASN:HB2	1.91	0.70
49:B2:31:LEU:CD1	49:B2:32:GLN:HE22	2.04	0.70
52:B5:20:ASN:ND2	52:B5:43:CYS:SG	2.65	0.70
52:B5:33:LYS:O	52:B5:34:LEU:C	2.28	0.70
54:B7:22:VAL:CG1	54:B7:23:VAL:H	2.04	0.70
54:B7:8:LYS:CE	54:B7:8:LYS:H	2.02	0.70
24:BA:1048:A:OP2	24:BA:1109:C:N4	2.24	0.70
24:BA:1055:G:N3	24:BA:1084:A:C2	2.59	0.70
24:BA:126:A:H2'	24:BA:127:A:H5'	1.73	0.70
24:BA:1735:C:C4	24:BA:1741:C:N4	2.60	0.70
24:BA:1750:G:O2'	24:BA:1751:C:H5'	1.91	0.70
24:BA:1829:A:N1	24:BA:1830:C:H1'	2.07	0.70
24:BA:1832:C:H2'	24:BA:1833:U:H5'	1.71	0.70
24:BA:1916:A:N3	24:BA:1917:U:O4	2.24	0.70
24:BA:1939:U:H1'	24:BA:2592:G:H1'	1.72	0.70
24:BA:1992:G:H4'	24:BA:1993:U:C4	2.26	0.70
24:BA:2219:G:H2'	24:BA:2224:G:H5'	1.74	0.70
24:BA:2393:A:O2'	24:BA:2394:C:H5'	1.90	0.70
24:BA:2582:G:C2'	24:BA:2583:G:H5'	2.21	0.70
24:BA:270(X):G:C6	24:BA:270(Y):G:H1'	2.25	0.70
24:BA:2848:G:N2	24:BA:2867:G:N3	2.40	0.70
24:BA:2849:U:H3'	24:BA:2849:U:C6	2.27	0.70
24:BA:569:U:H1'	24:BA:947:G:C1'	2.21	0.70
24:BA:781:A:H5'	24:BA:782:A:OP1	1.91	0.70
24:BA:930:U:O2'	24:BA:931:G:O5'	2.10	0.70
27:BD:158:ALA:C	27:BD:160:GLY:H	1.94	0.70
27:BD:5:LYS:HB2	27:BD:82:ILE:HD12	1.73	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:BE:41:LYS:O	28:BE:43:GLY:N	2.24	0.70
31:BH:164:TYR:CE2	31:BH:167:GLU:HG2	2.26	0.70
35:BN:68:GLU:HA	35:BN:104:ARG:CZ	2.21	0.70
24:BA:2675:A:H4'	35:BN:29:ASN:OD1	1.92	0.70
36:BO:72:PRO:HB3	36:BO:110:TYR:C	2.12	0.70
37:BP:110:THR:O	37:BP:111:GLU:CB	2.39	0.70
37:BP:22:LYS:CD	37:BP:23:GLY:H	2.04	0.70
38:BQ:64:ARG:NH1	38:BQ:65:LEU:HB2	2.06	0.70
39:BR:31:SER:HB3	39:BR:34:HIS:CD2	2.27	0.70
40:BS:53:ARG:NH2	40:BS:102:ILE:CD1	2.55	0.70
40:BS:6:LEU:CD2	40:BS:7:ILE:HG23	2.21	0.70
40:BS:85:LYS:H	40:BS:85:LYS:NZ	1.90	0.70
42:BU:4:ILE:N	42:BU:4:ILE:HD12	2.06	0.70
42:BU:62:LEU:HD13	42:BU:98:GLU:HA	1.74	0.70
45:BX:11:ASP:O	45:BX:73:ARG:HD2	1.90	0.70
45:BX:1:MET:H1	45:BX:33:LYS:HE3	1.55	0.70
46:BY:41:LEU:O	46:BY:44:PHE:HB2	1.91	0.70
46:BY:39:VAL:HG21	46:BY:86:VAL:CG2	2.20	0.70
24:BA:1580:A:H2'	24:BA:1581:G:C8	2.27	0.70
1:AA:800:G:C8	1:AA:800:G:O5'	2.44	0.70
28:BE:15:PHE:CD2	28:BE:16:ARG:HG3	2.27	0.70
1:AA:1064:G:N3	1:AA:1066:C:N4	2.40	0.70
1:AA:1244:C:H2'	1:AA:1245:A:C8	2.26	0.70
1:AA:519:C:C2'	1:AA:520:A:H5'	2.21	0.70
1:AA:517:G:N2	1:AA:533:A:OP2	2.25	0.70
1:AA:19:C:O2	1:AA:572:A:H2	1.75	0.70
1:AA:789:U:H6	1:AA:789:U:H3'	1.57	0.70
4:AE:116:GLU:HG2	4:AE:117:GLU:N	2.04	0.70
4:AE:118:LEU:CD2	4:AE:142:LEU:HB2	2.20	0.70
4:AE:187:LEU:HD13	4:AE:188:ALA:N	2.06	0.70
4:AE:59:GLU:HB3	4:AE:221:LEU:CD2	2.17	0.70
5:AF:113:ALA:HB2	5:AF:202:ILE:HG13	1.74	0.70
5:AF:11:ARG:HG3	5:AF:16:ARG:NH2	2.06	0.70
5:AF:91:LEU:HD11	5:AF:99:VAL:H	1.55	0.70
7:AH:147:ASP:HA	7:AH:150:ARG:CB	2.20	0.70
7:AH:20:GLN:HE22	7:AH:21:ALA:HB3	1.57	0.70
7:AH:81:GLU:HA	7:AH:89:ILE:O	1.92	0.70
13:AN:63:LEU:C	13:AN:63:LEU:HD23	2.11	0.70
13:AN:65:ALA:HB1	13:AN:98:LEU:CD2	2.22	0.70
18:AS:35:LYS:HZ2	18:AS:37:GLY:N	1.89	0.70
50:B3:41:PRO:HB2	50:B3:57:GLU:OE2	1.91	0.70
52:B5:22:ALA:HB1	52:B5:39:TYR:CE2	2.26	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:B5:29:ASN:O	52:B5:30:THR:O	2.10	0.70
52:B5:48:VAL:O	52:B5:49:HIS:HB2	1.91	0.70
55:B8:25:VAL:HG11	55:B8:34:GLN:NE2	2.05	0.70
24:BA:1079:C:O2'	24:BA:1080:C:H5'	1.92	0.70
24:BA:114:U:H2'	24:BA:115:C:C6	2.27	0.70
24:BA:1521:G:O5'	24:BA:1522:G:OP2	2.10	0.70
24:BA:175:G:O2'	24:BA:176:G:H5'	1.90	0.70
24:BA:1914:C:OP2	24:BA:1916:A:N6	2.25	0.70
24:BA:1935:G:N2	24:BA:1962:C:O2'	2.21	0.70
24:BA:2009:G:H1'	38:BQ:107:ASP:HA	1.74	0.70
24:BA:2033:A:N1	24:BA:2036:C:C4	2.60	0.70
24:BA:2537:U:C4	24:BA:2538:C:N4	2.60	0.70
24:BA:253:C:H2'	24:BA:254:G:C5'	2.22	0.70
24:BA:2618:G:C2	24:BA:2619:C:C6	2.80	0.70
24:BA:2697:G:O2'	24:BA:2698:U:H5'	1.91	0.70
24:BA:33:U:O2'	24:BA:34:C:H5	1.73	0.70
24:BA:388:G:N3	24:BA:390:A:C6	2.60	0.70
24:BA:513:A:C6	24:BA:514:A:N7	2.59	0.70
24:BA:959:A:H2'	24:BA:960:A:C8	2.27	0.70
24:BA:960:A:O2'	24:BA:961:C:H5'	1.91	0.70
25:BB:112:G:N3	25:BB:112:G:H2'	2.05	0.70
27:BD:178:PRO:O	27:BD:180:GLY:N	2.25	0.70
28:BE:171:GLU:HB2	28:BE:185:LYS:HZ3	1.56	0.70
29:BF:122:LYS:HD3	29:BF:123:LEU:N	2.06	0.70
29:BF:171:PRO:O	29:BF:173:VAL:N	2.25	0.70
30:BG:4:ASP:HA	30:BG:7:LEU:HD12	1.73	0.70
30:BG:39:ILE:HD13	30:BG:92:VAL:CG1	2.21	0.70
31:BH:94:TYR:H	31:BH:95:ARG:HH21	1.36	0.70
34:BM:55:VAL:N	34:BM:130:HIS:CE1	2.60	0.70
35:BN:63:VAL:HG22	35:BN:82:ASN:H	1.56	0.70
36:BO:113:LYS:HA	36:BO:129:ALA:O	1.92	0.70
36:BO:74:GLU:HB2	36:BO:107:LYS:NZ	2.07	0.70
37:BP:42:ILE:HG23	37:BP:42:ILE:O	1.92	0.70
38:BQ:56:LYS:O	38:BQ:58:GLY:N	2.25	0.70
45:BX:38:ILE:HG23	45:BX:60:PHE:HZ	1.54	0.70
24:BA:2114:A:C2'	24:BA:2115:G:H5'	2.22	0.70
26:BC:14:VAL:HG12	26:BC:16:PRO:HD3	1.73	0.70
24:BA:2104:G:N2	24:BA:2105:C:C2	2.59	0.70
2:A1:14:U:H2'	2:A1:15:U:C6	2.26	0.70
1:AA:1201:A:H2'	1:AA:1201:A:N3	2.07	0.70
1:AA:1203:C:O2'	1:AA:1204:A:H5'	1.91	0.70
1:AA:130:A:N7	19:AT:64:PRO:HD2	2.07	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1315:U:O2'	1:AA:1360:A:N3	2.23	0.70
1:AA:1414:U:H2'	1:AA:1415:G:C8	2.25	0.70
1:AA:421:U:H5''	1:AA:422:C:OP2	1.91	0.70
1:AA:519:C:H2'	1:AA:520:A:C5'	2.21	0.70
1:AA:535:A:H4'	1:AA:536:C:OP2	1.92	0.70
1:AA:858:G:N1	1:AA:869:G:H3'	2.07	0.70
1:AA:865:A:C4	1:AA:866:C:O2	2.45	0.70
1:AA:944:G:H3'	1:AA:945:G:C5'	2.21	0.70
4:AE:132:LYS:H	4:AE:132:LYS:CE	2.03	0.70
1:AA:1206:G:C5'	5:AF:194:GLY:HA2	2.21	0.70
6:AG:145:GLU:HG2	6:AG:184:LYS:HE2	1.72	0.70
6:AG:78:LEU:CD1	6:AG:96:LEU:HB3	2.22	0.70
7:AH:28:PHE:N	7:AH:28:PHE:CD1	2.58	0.70
7:AH:59:GLY:C	7:AH:63:ARG:HH21	1.95	0.70
8:AI:8:ILE:HG23	8:AI:88:VAL:HA	1.73	0.70
9:AJ:143:ARG:CD	9:AJ:144:MET:N	2.55	0.70
11:AL:10:ARG:HA	11:AL:104:ARG:HE	1.57	0.70
13:AN:95:ILE:CA	13:AN:98:LEU:HG	2.20	0.70
14:AO:82:VAL:N	14:AO:106:ASP:OD1	2.24	0.70
15:AP:10:PRO:HB2	15:AP:18:ALA:HA	1.73	0.70
17:AR:36:ILE:HD11	17:AR:60:VAL:CG1	2.22	0.70
22:AW:27:LYS:C	22:AW:27:LYS:HD3	2.12	0.70
50:B3:10:VAL:O	50:B3:10:VAL:HG12	1.91	0.70
50:B3:20:ASN:HB2	50:B3:30:GLU:HB2	1.73	0.70
50:B3:56:VAL:HG12	50:B3:57:GLU:N	2.06	0.70
52:B5:25:LYS:CE	54:B7:35:GLN:O	2.40	0.70
24:BA:1388:G:O2'	24:BA:1525:G:H5'	1.91	0.70
24:BA:1527:G:H2'	24:BA:1528:A:O4'	1.92	0.70
24:BA:1624:G:H2'	24:BA:1625:C:C5	2.26	0.70
24:BA:1743:G:C6	24:BA:1746:G:C5	2.80	0.70
24:BA:197:A:O4'	24:BA:2068:U:N3	2.25	0.70
24:BA:2056:G:OP2	24:BA:2057:A:OP2	2.10	0.70
24:BA:2307:G:C5	24:BA:2308:G:H1'	2.26	0.70
24:BA:2376:A:OP1	24:BA:2376:A:H8	1.74	0.70
24:BA:2468:G:P	24:BA:2476:A:H61	2.15	0.70
24:BA:2807:G:H2'	24:BA:2808:U:H5	1.56	0.70
24:BA:343:C:H2'	24:BA:344:G:C5'	2.21	0.70
24:BA:566:U:O4	24:BA:575:A:N1	2.24	0.70
24:BA:668:G:C2	24:BA:670:A:N6	2.60	0.70
24:BA:720:C:O2'	24:BA:721:C:H5'	1.91	0.70
25:BB:45:A:H1'	30:BG:95:ARG:CZ	2.22	0.70
24:BA:2227:A:H5''	27:BD:260:ARG:HD2	1.72	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:693:C:OP1	27:BD:60:ARG:CZ	2.40	0.70
28:BE:147:PRO:CB	28:BE:149:ARG:HD2	2.22	0.70
28:BE:5:LEU:CD2	28:BE:196:VAL:HB	2.21	0.70
31:BH:25:LYS:HD3	31:BH:27:LYS:NZ	2.07	0.70
31:BH:7:LEU:H	31:BH:8:PRO:HD2	1.57	0.70
31:BH:8:PRO:N	31:BH:69:ARG:HH11	1.90	0.70
35:BN:106:LEU:HD12	35:BN:107:ARG:N	2.06	0.70
41:BT:108:GLU:OE1	41:BT:109:LEU:N	2.24	0.70
46:BY:136:PHE:HB3	46:BY:138:GLU:OE2	1.91	0.70
24:BA:1039:G:H22	24:BA:1115:G:H22	1.40	0.70
24:BA:1484:G:H2'	24:BA:1485:G:C5'	2.21	0.70
33:BL:61:ALA:C	33:BL:63:ARG:H	1.95	0.70
10:AK:54:ASP:O	10:AK:56:LYS:HD2	1.92	0.70
1:AA:1073:U:O2'	1:AA:1074:G:H5'	1.91	0.70
1:AA:1120:G:H8	1:AA:1120:G:O5'	1.75	0.70
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.27	0.70
1:AA:529:G:C3'	1:AA:529:G:C8	2.75	0.70
1:AA:572:A:OP1	1:AA:573:A:OP1	2.10	0.70
1:AA:595:G:O6	1:AA:641:U:H3'	1.92	0.70
1:AA:843:U:H3'	1:AA:848:C:H5'	1.74	0.70
1:AA:959:A:H2	1:AA:1221:G:N3	1.90	0.70
1:AA:973:G:H22	1:AA:974:A:N6	1.89	0.70
4:AE:97:TRP:CZ2	4:AE:102:LEU:HD13	2.24	0.70
4:AE:25:ASN:O	4:AE:25:ASN:CG	2.27	0.70
7:AH:78:HIS:NE2	7:AH:142:LEU:HB3	2.06	0.70
7:AH:52:PRO:O	7:AH:55:VAL:CB	2.37	0.70
9:AJ:113:GLU:OE1	9:AJ:118:VAL:HG12	1.91	0.70
15:AP:59:TYR:CE1	15:AP:63:THR:HG21	2.27	0.70
21:AV:18:LYS:HE2	21:AV:22:LEU:HB2	1.74	0.70
1:AA:1319:A:OP2	21:AV:5:LEU:HD22	1.92	0.70
21:AV:38:SER:O	21:AV:70:LYS:HA	1.90	0.70
50:B3:41:PRO:HB2	50:B3:57:GLU:CD	2.11	0.70
50:B3:42:PHE:N	50:B3:57:GLU:OE2	2.25	0.70
51:B4:9:LYS:O	51:B4:10:LYS:HB2	1.91	0.70
24:BA:2467:C:OP1	55:B8:8:LYS:NZ	2.25	0.70
24:BA:1215:G:H2'	24:BA:1216:G:O4'	1.92	0.70
24:BA:512:G:OP2	24:BA:1235:G:H5'	1.92	0.70
24:BA:1698:A:HO2'	24:BA:1699:G:C3'	2.05	0.70
24:BA:1955:U:C3'	24:BA:1956:U:H5	2.05	0.70
24:BA:200:U:C4	24:BA:201:C:H1'	2.27	0.70
24:BA:211:A:H2'	24:BA:212:G:O4'	1.92	0.70
24:BA:1966:A:C4	24:BA:2593:U:H5'	2.27	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2681:C:O2'	24:BA:2682:U:C5'	2.38	0.70
24:BA:2748:A:C2	24:BA:2757:A:N6	2.60	0.70
24:BA:2757:A:H2'	24:BA:2758:A:C5'	2.20	0.70
24:BA:455:C:O2'	24:BA:456:C:H5'	1.92	0.70
24:BA:781:A:O2'	27:BD:222:ARG:NH2	2.25	0.70
24:BA:935:C:C2	24:BA:936:C:C5	2.80	0.70
25:BB:42:C:N3	30:BG:93:THR:HB	2.07	0.70
29:BF:133:ASN:HB3	29:BF:165:ARG:HH22	1.57	0.70
29:BF:195:ASP:O	29:BF:197:ASP:N	2.22	0.70
31:BH:156:ALA:HA	31:BH:171:LEU:CD2	2.22	0.70
31:BH:6:ARG:C	31:BH:69:ARG:HE	1.95	0.70
34:BM:35:ARG:NH1	34:BM:48:MET:HE1	2.07	0.70
35:BN:43:VAL:CG1	35:BN:54:GLU:HA	2.21	0.70
36:BO:137:LYS:CE	36:BO:137:LYS:HA	2.21	0.70
37:BP:6:ARG:NH2	37:BP:8:LYS:H	1.90	0.70
40:BS:86:ILE:HG22	40:BS:87:ASP:N	2.05	0.70
41:BT:115:ALA:O	41:BT:118:GLY:N	2.25	0.70
41:BT:74:LEU:HB3	41:BT:78:THR:OG1	1.92	0.70
42:BU:61:VAL:HG12	42:BU:62:LEU:N	2.07	0.70
43:BV:88:ARG:HB2	43:BV:94:ASP:CG	2.11	0.70
45:BX:42:VAL:HG23	45:BX:61:ILE:HG12	1.74	0.70
24:BA:1508:A:H3'	24:BA:1510:A:C8	2.27	0.70
6:AG:159:ARG:O	6:AG:160:GLN:C	2.30	0.70
1:AA:1144:G:N2	1:AA:1146:A:N6	2.39	0.69
1:AA:1502:A:H5''	1:AA:1503:A:OP2	1.92	0.69
1:AA:153:C:H2'	1:AA:154:C:C6	2.27	0.69
1:AA:287:U:H2'	1:AA:288:A:H5'	1.74	0.69
1:AA:453:A:N6	1:AA:480:U:N3	2.40	0.69
4:AE:115:LEU:HD13	4:AE:145:LEU:CG	2.21	0.69
6:AG:177:ASP:OD1	6:AG:179:GLU:HB3	1.91	0.69
10:AK:18:ARG:HG3	10:AK:18:ARG:NH1	2.02	0.69
10:AK:51:VAL:HG11	10:AK:60:ARG:NH2	2.07	0.69
11:AL:38:GLN:HA	11:AL:38:GLN:OE1	1.92	0.69
14:AO:56:ALA:HB2	14:AO:70:ILE:HG12	1.73	0.69
18:AS:31:LYS:HB3	18:AS:31:LYS:HZ3	1.54	0.69
21:AV:63:THR:O	21:AV:66:MET:HG2	1.92	0.69
24:BA:1044:G:H1	24:BA:1112:G:HO2'	1.36	0.69
24:BA:1128:A:N3	24:BA:1128:A:H2'	2.07	0.69
24:BA:1292:U:O2'	24:BA:1293:C:H5'	1.91	0.69
24:BA:1473:G:N1	24:BA:1519:G:H1'	2.04	0.69
24:BA:1817:G:H2'	24:BA:1818:U:O4'	1.92	0.69
24:BA:2021:C:H5'	24:BA:2022:U:H5	1.55	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2059:A:N1	24:BA:2503:A:C6	2.60	0.69
24:BA:2423:U:O2'	24:BA:2425:A:H3'	1.91	0.69
24:BA:1966:A:N3	24:BA:2593:U:C5'	2.53	0.69
24:BA:221:A:N7	24:BA:266:G:C6	2.60	0.69
24:BA:38:A:H2'	24:BA:39:C:C6	2.27	0.69
24:BA:573:G:H5'	24:BA:576:U:O4	1.91	0.69
24:BA:613:U:O5'	24:BA:615:G:H1'	1.92	0.69
24:BA:619:G:H3'	24:BA:619:G:C8	2.27	0.69
24:BA:792:G:C5	24:BA:2440:C:C2	2.79	0.69
24:BA:823:G:H3'	24:BA:824:A:H8	1.57	0.69
27:BD:231:HIS:O	27:BD:232:PRO:C	2.29	0.69
24:BA:2680:C:OP1	28:BE:190:GLY:HA2	1.91	0.69
30:BG:141:PHE:HE2	30:BG:145:THR:HA	1.54	0.69
30:BG:37:VAL:O	30:BG:99:MET:SD	2.49	0.69
31:BH:70:THR:O	31:BH:73:ALA:HB3	1.92	0.69
33:BL:56:GLU:HB3	33:BL:67:PHE:HD2	1.57	0.69
34:BM:91:LEU:CD2	34:BM:98:VAL:HG21	2.21	0.69
35:BN:68:GLU:CD	35:BN:76:ALA:HB3	2.13	0.69
37:BP:134:ARG:NH2	37:BP:137:TYR:N	2.40	0.69
37:BP:56:ARG:NH2	37:BP:57:HIS:HB2	2.05	0.69
41:BT:105:VAL:O	41:BT:108:GLU:OE1	2.09	0.69
41:BT:74:LEU:HD13	41:BT:78:THR:CG2	2.20	0.69
42:BU:62:LEU:HD22	42:BU:98:GLU:CA	2.21	0.69
43:BV:98:LYS:O	43:BV:98:LYS:NZ	2.19	0.69
37:BP:62:GLY:HA2	46:BY:177:PRO:HA	1.74	0.69
26:BC:104:LEU:HD22	26:BC:127:LEU:HD23	1.74	0.69
24:BA:1504:C:C6	24:BA:1504:C:O5'	2.45	0.69
43:BV:60:ASN:HD21	43:BV:61:ASN:ND2	1.89	0.69
24:BA:1887:C:O2'	24:BA:2190:G:O2'	2.10	0.69
1:AA:219:C:H2'	1:AA:220:G:O4'	1.91	0.69
24:BA:164:U:H2'	24:BA:164:U:O2	1.91	0.69
2:A1:36:U:C4'	2:A1:37:U:OP2	2.40	0.69
1:AA:1067:A:H2	1:AA:1068:G:N3	1.90	0.69
1:AA:1321:C:C5	1:AA:1322:C:H2'	2.27	0.69
1:AA:1430:C:C2	1:AA:1431:C:H5	2.09	0.69
4:AE:164:VAL:HG12	4:AE:186:ALA:CB	2.21	0.69
4:AE:192:SER:O	4:AE:194:PRO:HD3	1.92	0.69
5:AF:91:LEU:HD23	5:AF:91:LEU:C	2.13	0.69
6:AG:74:GLN:HA	6:AG:77:ASN:ND2	1.99	0.69
9:AJ:122:HIS:O	9:AJ:125:MET:CG	2.38	0.69
9:AJ:103:TRP:HH2	9:AJ:138:LYS:HA	1.49	0.69
10:AK:94:TYR:HE1	10:AK:132:GLU:OE1	1.74	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AK:19:VAL:HB	10:AK:21:LYS:HG2	1.74	0.69
10:AK:36:LEU:HA	10:AK:39:LEU:HB2	1.73	0.69
10:AK:48:TYR:CB	10:AK:61:VAL:HG22	2.22	0.69
10:AK:68:ARG:CZ	10:AK:74:PRO:HB3	2.21	0.69
11:AL:8:GLY:HA3	11:AL:76:ALA:O	1.92	0.69
12:AM:84:GLN:HA	12:AM:88:LEU:HD12	1.73	0.69
17:AR:34:LEU:HG	17:AR:35:ARG:N	2.06	0.69
22:AW:56:MET:CG	22:AW:88:VAL:HG21	2.21	0.69
49:B2:5:LYS:HZ2	49:B2:59:VAL:HG22	1.57	0.69
50:B3:31:ILE:CD1	50:B3:31:ILE:H	2.05	0.69
24:BA:2815:C:O2'	51:B4:42:PRO:CB	2.40	0.69
53:B6:27:GLY:O	53:B6:31:LEU:HG	1.91	0.69
24:BA:1012:U:O4	34:BM:25:ARG:CB	2.33	0.69
24:BA:1375:C:C2	24:BA:1376:C:C5	2.80	0.69
24:BA:1632:A:C2	24:BA:1633:G:N2	2.60	0.69
24:BA:1690:A:C2	24:BA:1691:C:C1'	2.75	0.69
24:BA:1779:U:O5'	24:BA:1779:U:H6	1.75	0.69
24:BA:1878:G:H2'	24:BA:1879:C:H6	1.56	0.69
24:BA:2194:G:C2	24:BA:2195:C:N4	2.60	0.69
24:BA:2246:G:N2	24:BA:2247:A:C5	2.60	0.69
24:BA:2305:A:C8	24:BA:2306:C:C5'	2.73	0.69
24:BA:2459:A:C4	24:BA:2460:U:H1'	2.27	0.69
24:BA:586:A:H2	24:BA:809:G:N2	1.90	0.69
24:BA:731:C:O2'	24:BA:732:C:H5'	1.92	0.69
24:BA:695:G:C6	24:BA:768:G:O6	2.46	0.69
24:BA:835:A:H4'	24:BA:2358:G:H1'	1.73	0.69
24:BA:877:U:H6	24:BA:877:U:O5'	1.75	0.69
24:BA:911:A:H8	24:BA:2264:C:C1'	1.95	0.69
27:BD:119:ALA:HA	27:BD:123:ALA:HB2	1.73	0.69
27:BD:234:GLY:HA3	27:BD:241:PRO:HG3	1.74	0.69
28:BE:30:PRO:CA	28:BE:49:LEU:O	2.39	0.69
29:BF:185:ASP:O	29:BF:189:THR:HG23	1.91	0.69
30:BG:39:ILE:CD1	30:BG:92:VAL:HG12	2.22	0.69
32:BK:5:LEU:CD1	32:BK:17:GLN:HB2	2.21	0.69
35:BN:103:ALA:HB1	35:BN:107:ARG:NE	2.07	0.69
35:BN:6:THR:O	35:BN:20:MET:CA	2.25	0.69
24:BA:672:C:OP2	36:BO:38:GLN:HG2	1.92	0.69
38:BQ:17:ARG:HG3	38:BQ:18:LEU:H	1.57	0.69
41:BT:114:LYS:CG	41:BT:115:ALA:N	2.54	0.69
42:BU:15:GLU:HA	42:BU:100:ARG:NH1	2.07	0.69
24:BA:1312:U:H5	44:BW:62:LYS:HG3	1.56	0.69
45:BX:33:LYS:HB3	45:BX:35:TYR:CE2	2.27	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AD:20:U:O2	3:AD:20:U:H2'	1.90	0.69
24:BA:2126:A:H1'	24:BA:2162:G:N2	2.07	0.69
24:BA:1487:G:N2	24:BA:1503:U:C2	2.60	0.69
24:BA:1488:G:C3'	24:BA:1489:U:H5'	2.21	0.69
39:BR:54:LEU:HG	39:BR:56:LEU:HD22	1.74	0.69
1:AA:489:C:H2'	1:AA:490:G:C8	2.26	0.69
1:AA:1186:G:N2	16:AQ:61:TRP:O	2.25	0.69
1:AA:129(A):G:H4'	1:AA:130:A:C5'	2.22	0.69
1:AA:16:A:C1'	7:AH:17:ALA:HB3	2.22	0.69
1:AA:623:C:O2'	1:AA:624:C:H5'	1.91	0.69
1:AA:865:A:H5'	1:AA:1078:U:C4	2.27	0.69
3:AC:46:G:H5'	3:AC:47:U:OP2	1.92	0.69
3:AC:74:C:N4	47:BZ:4:LYS:HZ2	1.90	0.69
3:AD:75:C:H5''	3:AD:76:A:O2'	1.91	0.69
4:AE:168:THR:CG2	4:AE:192:SER:HA	2.22	0.69
4:AE:102:LEU:HB3	4:AE:180:LEU:CD1	2.22	0.69
5:AF:138:VAL:HG22	5:AF:151:VAL:CG2	2.22	0.69
6:AG:121:VAL:O	6:AG:134:ASP:HB2	1.93	0.69
6:AG:78:LEU:HD21	6:AG:96:LEU:HD22	1.73	0.69
9:AJ:63:LYS:CA	9:AJ:63:LYS:HE2	2.21	0.69
10:AK:112:LEU:HD21	10:AK:114:THR:CG2	2.22	0.69
13:AN:32:ILE:HD12	13:AN:41:THR:OG1	1.91	0.69
15:AP:8:GLU:CG	15:AP:22:ILE:HG12	2.21	0.69
17:AR:34:LEU:CG	17:AR:35:ARG:N	2.55	0.69
19:AT:5:VAL:CG2	19:AT:60:ILE:HA	2.11	0.69
19:AT:7:THR:HG21	19:AT:56:VAL:HG12	1.73	0.69
20:AU:46:GLU:H	20:AU:49:LYS:HZ1	1.37	0.69
22:AW:48:LYS:HB3	22:AW:51:GLU:CG	2.22	0.69
50:B3:10:VAL:N	50:B3:11:PRO:CD	2.55	0.69
50:B3:31:ILE:O	50:B3:32:TYR:HB3	1.93	0.69
24:BA:1166:C:H2'	24:BA:1167:U:H6	1.56	0.69
24:BA:145:G:H2'	24:BA:146:G:C8	2.27	0.69
24:BA:1568:G:OP1	27:BD:61:LEU:CB	2.34	0.69
24:BA:1770:G:H2'	24:BA:1771:C:H6	1.57	0.69
24:BA:1839:G:O6	24:BA:1927:A:C2	2.45	0.69
24:BA:1948:G:O2'	24:BA:1949:G:H5'	1.93	0.69
24:BA:194:G:H2'	24:BA:195:A:C8	2.27	0.69
24:BA:213:A:H2'	24:BA:214:G:H5'	1.73	0.69
24:BA:2228:G:N7	24:BA:2229:C:C5	2.61	0.69
24:BA:2291:U:H2'	24:BA:2292:C:C6	2.28	0.69
24:BA:2384:G:H3'	24:BA:2385:C:O3'	1.93	0.69
24:BA:2416:C:H6	24:BA:2416:C:O5'	1.75	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:281:G:N2	24:BA:283:A:C5'	2.54	0.69
25:BB:43:C:N3	25:BB:45:A:C8	2.60	0.69
24:BA:728:G:O3'	27:BD:13:ARG:NH2	2.25	0.69
27:BD:182:LEU:HD12	27:BD:270:ILE:HD11	1.72	0.69
24:BA:1789:A:C4'	27:BD:222:ARG:CZ	2.71	0.69
27:BD:246:PRO:O	27:BD:250:TRP:HB2	1.92	0.69
24:BA:2572:A:C2	28:BE:144:ARG:NH1	2.61	0.69
29:BF:9:ILE:CG1	29:BF:122:LYS:HG3	2.22	0.69
30:BG:20:ILE:HG21	30:BG:28:VAL:HG13	1.72	0.69
31:BH:139:GLN:HG3	31:BH:140:LYS:N	2.07	0.69
24:BA:1139:G:P	34:BM:63:THR:HG21	2.32	0.69
35:BN:68:GLU:HG2	35:BN:76:ALA:O	1.92	0.69
37:BP:66:ILE:N	37:BP:105:GLU:OE2	2.25	0.69
40:BS:55:ASN:ND2	40:BS:57:PHE:CZ	2.60	0.69
41:BT:97:ASP:CB	41:BT:101:ARG:HH21	2.05	0.69
43:BV:16:LYS:NZ	43:BV:16:LYS:N	2.37	0.69
43:BV:90:ARG:N	43:BV:90:ARG:HH21	1.89	0.69
45:BX:107:ASP:O	45:BX:109:GLU:N	2.25	0.69
32:BK:132:PRO:HG3	32:BK:138:ILE:HB	1.74	0.69
6:AG:47:ARG:CZ	6:AG:47:ARG:HB2	2.22	0.69
1:AA:336:C:H2'	1:AA:337:C:H6	1.57	0.69
24:BA:363(A):A:H2'	24:BA:363(A):A:N3	2.06	0.69
1:AA:1428:A:H2'	1:AA:1429:C:H6	1.53	0.69
1:AA:317:G:OP1	1:AA:353:A:N6	2.25	0.69
1:AA:109:A:C2	1:AA:327:A:N1	2.60	0.69
1:AA:684:A:H2	1:AA:706:A:H61	1.40	0.69
4:AE:15:VAL:HG21	4:AE:209:ARG:HB3	1.75	0.69
6:AG:128:VAL:HG21	6:AG:133:VAL:HB	1.75	0.69
6:AG:166:LYS:NZ	6:AG:178:VAL:O	2.21	0.69
6:AG:31:CYS:O	6:AG:33:MET:N	2.24	0.69
7:AH:94:ALA:HB2	7:AH:119:LEU:HD21	1.73	0.69
8:AI:89:MET:HE2	20:AU:76:LEU:HD21	1.75	0.69
10:AK:9:MET:O	10:AK:13:ILE:HG13	1.93	0.69
13:AN:102:GLY:C	13:AN:104:GLN:H	1.95	0.69
10:AK:91:ARG:HG3	14:AO:7:ILE:HD12	1.74	0.69
17:AR:53:HIS:C	17:AR:57:LEU:HD13	2.11	0.69
21:AV:48:THR:HA	21:AV:60:VAL:O	1.92	0.69
50:B3:63:TYR:O	50:B3:66:SER:HB2	1.92	0.69
51:B4:11:THR:HG23	51:B4:15:ARG:HB3	1.73	0.69
54:B7:6:THR:O	54:B7:6:THR:HG23	1.92	0.69
24:BA:1000:A:N7	24:BA:1001:A:C6	2.60	0.69
24:BA:1068:G:H4'	24:BA:1096:A:O2'	1.93	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1568:G:HO2'	24:BA:1569:A:P	2.16	0.69
24:BA:1618:A:OP1	24:BA:1618:A:H8	1.76	0.69
24:BA:1955:U:C2'	24:BA:1956:U:OP1	2.40	0.69
24:BA:1995:U:H5''	24:BA:1996:C:H5''	1.75	0.69
24:BA:1996:C:C2'	28:BE:123:ALA:HB3	2.22	0.69
24:BA:2448:A:P	24:BA:2499:C:OP2	2.50	0.69
24:BA:2647:U:O2'	24:BA:2648:C:H5'	1.92	0.69
24:BA:300:A:O2'	24:BA:318:C:H1'	1.92	0.69
24:BA:585:G:C6	24:BA:1251:C:C5	2.81	0.69
24:BA:665:C:OP2	24:BA:665:C:H6	1.76	0.69
24:BA:727:A:C6	24:BA:729:G:O6	2.45	0.69
25:BB:23:G:H2'	25:BB:24:G:C8	2.27	0.69
25:BB:77:U:H2'	25:BB:78:A:H8	1.56	0.69
27:BD:132:PRO:HD3	27:BD:190:TYR:OH	1.93	0.69
27:BD:17:THR:C	27:BD:19:ALA:H	1.96	0.69
28:BE:14:ILE:HA	28:BE:19:ARG:HA	1.73	0.69
28:BE:202:LYS:C	28:BE:204:ALA:H	1.94	0.69
28:BE:32:PRO:HB2	28:BE:35:GLN:HE22	1.56	0.69
30:BG:124:SER:OG	30:BG:133:LEU:HD23	1.93	0.69
30:BG:68:PRO:HG3	30:BG:72:ARG:HH12	1.55	0.69
31:BH:45:VAL:HG22	31:BH:50:VAL:CG1	2.21	0.69
33:BL:40:ALA:HB2	33:BL:65:PHE:CE1	2.28	0.69
33:BL:39:LYS:HG2	33:BL:42:ASN:HD22	1.57	0.69
33:BL:68:VAL:HB	33:BL:70:LYS:HE3	1.75	0.69
24:BA:1007:C:O2'	34:BM:108:PRO:HB3	1.92	0.69
36:BO:108:LYS:CD	36:BO:109:GLY:H	2.05	0.69
39:BR:26:LEU:HD21	39:BR:37:ALA:CB	2.22	0.69
40:BS:24:PRO:O	40:BS:25:GLY:O	2.10	0.69
35:BN:76:ALA:CA	40:BS:77:PRO:HD2	2.18	0.69
41:BT:27:LEU:O	41:BT:31:SER:CB	2.39	0.69
43:BV:13:SER:O	43:BV:16:LYS:NZ	2.23	0.69
45:BX:9:LYS:HB2	45:BX:110:GLU:OE2	1.92	0.69
46:BY:102:LEU:HD22	46:BY:137:ILE:HB	1.72	0.69
46:BY:7:ALA:HB2	46:BY:38:TYR:CG	2.27	0.69
24:BA:2355:C:H1'	47:BZ:39:ARG:HH21	1.56	0.69
47:BZ:59:LEU:HD13	47:BZ:79:VAL:HG11	1.74	0.69
24:BA:2126:A:H1'	24:BA:2162:G:H21	1.56	0.69
24:BA:2172:U:O2'	24:BA:2173:A:OP1	2.10	0.69
26:BC:47:LEU:HD12	26:BC:208:PHE:CZ	2.26	0.69
24:BA:2670:A:H5''	28:BE:206:LYS:HZ3	1.56	0.69
1:AA:414:A:H2'	1:AA:415:A:C8	2.24	0.69
1:AA:465:A:N7	1:AA:467:G:C2	2.60	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:663:A:N6	1:AA:742:G:O6	2.18	0.69
1:AA:803:G:O2'	1:AA:804:U:H5'	1.91	0.69
4:AE:187:LEU:HD22	4:AE:201:ILE:O	1.92	0.69
4:AE:222:ILE:HD12	4:AE:223:ILE:HG13	1.74	0.69
4:AE:223:ILE:HG21	4:AE:229:VAL:HA	1.73	0.69
6:AG:152:SER:O	6:AG:158:ILE:HG13	1.91	0.69
8:AI:76:ALA:CB	8:AI:80:ARG:NH2	2.55	0.69
2:A1:36:U:H1'	9:AJ:82:GLY:HA2	1.73	0.69
10:AK:107:LEU:N	10:AK:107:LEU:HD23	2.08	0.69
10:AK:70:GLN:HE21	10:AK:70:GLN:CA	2.04	0.69
11:AL:37:PHE:N	11:AL:37:PHE:HD2	1.90	0.69
12:AM:10:GLY:HA3	12:AM:16:LEU:HD21	1.75	0.69
14:AO:82:VAL:O	14:AO:106:ASP:HB2	1.91	0.69
15:AP:2:ALA:HB3	15:AP:4:ILE:HD11	1.74	0.69
15:AP:91:ARG:HB2	15:AP:98:VAL:HG13	1.74	0.69
18:AS:74:LEU:HD22	18:AS:79:VAL:HG21	1.73	0.69
20:AU:26:LEU:HG	20:AU:27:GLY:O	1.92	0.69
22:AW:23:ARG:CA	22:AW:26:ASN:OD1	2.40	0.69
22:AW:42:GLN:O	22:AW:45:GLN:HB2	1.92	0.69
48:B1:63:ARG:O	48:B1:66:ASN:HB3	1.93	0.69
53:B6:22:MET:O	53:B6:28:ARG:HG2	1.93	0.69
24:BA:1212:G:O2'	24:BA:1213:A:H8	1.74	0.69
24:BA:1263:U:H4'	51:B4:10:LYS:CG	2.21	0.69
24:BA:1345:C:OP1	24:BA:1385:G:H5''	1.92	0.69
24:BA:149:A:N7	24:BA:150:C:C2	2.60	0.69
24:BA:1748:G:H2'	24:BA:1749:A:C8	2.27	0.69
24:BA:1788:C:N4	24:BA:1789:A:C8	2.59	0.69
24:BA:1853:A:H2'	24:BA:1854:A:C8	2.27	0.69
24:BA:1903:G:H2'	24:BA:1904:G:C8	2.24	0.69
24:BA:1935:G:H2'	24:BA:1962:C:N3	2.07	0.69
24:BA:2096:U:H2'	24:BA:2097:C:H5	1.57	0.69
24:BA:2466:C:H2'	24:BA:2467:C:H6	1.56	0.69
24:BA:2584:U:H3'	24:BA:2584:U:H6	1.57	0.69
24:BA:418:G:O2'	24:BA:419:C:H5'	1.91	0.69
24:BA:530:G:O2'	24:BA:531:C:P	2.50	0.69
24:BA:621:A:N7	24:BA:622:G:O4'	2.25	0.69
24:BA:988:A:H3'	49:B2:10:LYS:NZ	2.06	0.69
25:BB:14:U:H1'	25:BB:107:U:C1'	2.22	0.69
27:BD:65:ILE:HD12	27:BD:104:TYR:HB3	1.74	0.69
27:BD:176:ARG:HB2	27:BD:182:LEU:HD21	1.75	0.69
28:BE:176:ILE:HG23	28:BE:176:ILE:O	1.92	0.69
30:BG:139:LEU:HD13	30:BG:142:PRO:CA	2.23	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:BG:45:GLU:C	30:BG:47:LYS:H	1.94	0.69
35:BN:10:VAL:HG12	35:BN:17:ARG:CA	2.22	0.69
35:BN:89:ASN:HD22	35:BN:91:LEU:HB2	1.58	0.69
36:BO:78:PRO:HG2	36:BO:117:GLU:OE2	1.93	0.69
24:BA:663:G:C5'	36:BO:18:ARG:HB3	2.17	0.69
38:BQ:94:TYR:C	38:BQ:117:VAL:HG12	2.13	0.69
38:BQ:11:ASN:ND2	38:BQ:12:ARG:H	1.90	0.69
38:BQ:46:GLY:O	38:BQ:49:ASP:CB	2.40	0.69
38:BQ:58:GLY:HA2	38:BQ:80:PHE:CZ	2.27	0.69
40:BS:109:GLU:O	40:BS:113:LYS:HB2	1.92	0.69
43:BV:11:ARG:HH21	43:BV:11:ARG:HB3	1.57	0.69
46:BY:9:TYR:CB	46:BY:14:LYS:HG2	2.22	0.69
46:BY:158:PRO:HB2	46:BY:159:PRO:CD	2.23	0.69
46:BY:18:LEU:HD11	46:BY:38:TYR:CD1	2.27	0.69
46:BY:53:ILE:HG12	46:BY:58:VAL:CG2	2.22	0.69
32:BK:108:THR:O	32:BK:109:ILE:HD12	1.92	0.69
32:BK:87:LYS:HD3	32:BK:121:LYS:HE2	1.75	0.69
26:BC:59:ARG:NH1	26:BC:164:ARG:HG2	2.07	0.69
1:AA:344:A:H5''	1:AA:345:C:C5	2.26	0.69
14:AO:126:LYS:HZ2	14:AO:128:ALA:H	1.38	0.69
1:AA:1289:A:O2'	1:AA:1290:G:H5'	1.92	0.69
1:AA:129(A):G:H3'	1:AA:129(A):G:C8	2.27	0.69
1:AA:1322:C:H5''	1:AA:1323:G:OP1	1.93	0.69
1:AA:1464:G:C2'	1:AA:1465:C:C5	2.72	0.69
1:AA:61:G:C5	1:AA:62:U:C4	2.80	0.69
1:AA:892:A:HO2'	1:AA:1415:G:HO2'	1.39	0.69
1:AA:953:G:O2'	15:AP:125:ARG:CA	2.34	0.69
3:AC:75:C:C6	3:AC:76:A:H4'	2.26	0.69
4:AE:174:VAL:C	4:AE:178:ARG:HG2	2.13	0.69
4:AE:19:HIS:CE1	4:AE:204:ASN:HD21	2.11	0.69
4:AE:212:GLN:O	4:AE:216:SER:CB	2.41	0.69
9:AJ:38:LEU:HD12	9:AJ:41:ARG:HD3	1.75	0.69
9:AJ:74:GLU:HA	9:AJ:145:ALA:CB	2.21	0.69
10:AK:10:LEU:HD22	10:AK:135:CYS:SG	2.33	0.69
1:AA:1229:A:OP1	15:AP:116:THR:HG22	1.93	0.69
15:AP:14:ARG:H	15:AP:44:ARG:NE	1.90	0.69
16:AQ:42:ILE:O	16:AQ:43:CYS:C	2.30	0.69
17:AR:53:HIS:O	17:AR:56:LEU:HB3	1.92	0.69
1:AA:580:U:H4'	17:AR:58:MET:HG2	1.73	0.69
18:AS:39:TYR:CD1	18:AS:40:ASP:N	2.61	0.69
49:B2:7:LYS:HA	49:B2:33:GLN:O	1.93	0.69
50:B3:32:TYR:O	50:B3:33:VAL:HG23	1.93	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:B5:30:THR:O	52:B5:32:ASN:N	2.24	0.69
55:B8:20:HIS:HB2	55:B8:22:ARG:CG	2.16	0.69
24:BA:1936:A:C1'	24:BA:1940:U:C4	2.75	0.69
24:BA:2097:C:N4	24:BA:2193:G:O6	2.26	0.69
24:BA:2226:C:O2	24:BA:2227:A:O4'	2.10	0.69
24:BA:2287:A:C8	24:BA:2289:G:N7	2.60	0.69
24:BA:2521:C:C2	24:BA:2522:U:C6	2.81	0.69
24:BA:2550:G:H2'	24:BA:2551:C:C6	2.26	0.69
24:BA:332:A:H4'	24:BA:333:G:OP1	1.90	0.69
24:BA:457:A:H1'	24:BA:459:U:H3	1.55	0.69
24:BA:594:U:C4	24:BA:595:C:N4	2.60	0.69
24:BA:751:A:N7	24:BA:789:A:C6	2.61	0.69
24:BA:810:U:OP1	24:BA:1253:A:N7	2.26	0.69
24:BA:950:G:H2'	24:BA:951:C:H6	1.56	0.69
25:BB:83:G:N2	25:BB:84:C:C2	2.60	0.69
27:BD:85:ASP:C	27:BD:87:ASN:H	1.93	0.69
28:BE:178:GLU:N	28:BE:178:GLU:OE1	2.22	0.69
28:BE:80:GLU:OE1	28:BE:80:GLU:N	2.26	0.69
30:BG:174:GLU:OE2	30:BG:175:LEU:HG	1.93	0.69
30:BG:75:LYS:NZ	30:BG:85:GLY:HA3	2.08	0.69
31:BH:13:LYS:HG3	31:BH:15:VAL:H	1.57	0.69
32:BK:5:LEU:HA	32:BK:36:ALA:CB	2.22	0.69
33:BL:89:HIS:O	33:BL:90:LYS:HG3	1.92	0.69
36:BO:122:PRO:HA	36:BO:134:ALA:HA	1.74	0.69
39:BR:73:LEU:HA	39:BR:76:LYS:HD2	1.75	0.69
39:BR:17:ARG:NE	39:BR:89:ARG:HB2	2.07	0.69
39:BR:9:ARG:NH1	39:BR:9:ARG:H	1.89	0.69
42:BU:78:LYS:CB	42:BU:84:LYS:HB3	2.23	0.69
43:BV:13:SER:HB3	43:BV:16:LYS:HE2	1.75	0.69
46:BY:48:PHE:CE2	46:BY:86:VAL:HG11	2.27	0.69
26:BC:163:PHE:HA	26:BC:171:ILE:HD11	1.73	0.69
26:BC:82:LYS:CD	26:BC:116:THR:HG21	2.19	0.69
24:BA:2191:G:N2	24:BA:2192:G:N3	2.40	0.69
1:AA:306:G:O2'	1:AA:307:C:H5'	1.92	0.69
1:AA:679:C:H2'	1:AA:680:C:H6	1.56	0.69
1:AA:716:A:H1'	13:AN:118:GLY:CA	2.18	0.69
1:AA:720:C:H6	1:AA:720:C:O5'	1.76	0.69
1:AA:750:G:O4'	17:AR:22:THR:OG1	2.11	0.69
1:AA:654:G:C2	1:AA:753:A:H1'	2.27	0.69
4:AE:35:GLU:O	4:AE:36:ARG:CZ	2.40	0.69
4:AE:60:ASP:HB3	4:AE:64:ARG:NH1	2.07	0.69
5:AF:59:ARG:NH2	5:AF:64:VAL:HG13	2.07	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:118:ARG:HG3	6:AG:118:ARG:HH21	1.57	0.69
7:AH:11:ILE:HD12	7:AH:104:ALA:HB1	1.75	0.69
7:AH:105:VAL:CG2	7:AH:132:ALA:HB2	2.22	0.69
7:AH:26:PHE:CD1	7:AH:26:PHE:N	2.60	0.69
10:AK:17:THR:CG2	10:AK:18:ARG:NH2	2.55	0.69
13:AN:85:ARG:HE	13:AN:111:ASP:HB3	1.55	0.69
18:AS:39:TYR:OH	18:AS:41:PRO:HG3	1.93	0.69
1:AA:277:C:C5'	19:AT:68:ARG:HH12	2.06	0.69
19:AT:5:VAL:CG1	19:AT:6:LEU:N	2.56	0.69
48:B1:33:GLN:HB3	48:B1:41:GLN:OE1	1.92	0.69
24:BA:1158:C:H5'	49:B2:31:LEU:CB	2.23	0.69
50:B3:66:SER:HA	50:B3:69:LYS:CD	2.15	0.69
51:B4:13:LYS:HB3	51:B4:16:ARG:NH1	2.08	0.69
24:BA:1529:A:H8	24:BA:1530:G:C8	2.11	0.69
24:BA:1613:G:N2	24:BA:1619:G:C4	2.60	0.69
24:BA:2011:U:H2'	24:BA:2012:G:O4'	1.92	0.69
24:BA:411:G:O4'	24:BA:2407:G:P	2.50	0.69
24:BA:241:A:C2'	24:BA:242:G:H4'	2.22	0.69
24:BA:2556:C:O2'	24:BA:2557:G:H5'	1.92	0.69
24:BA:2674:G:H2'	24:BA:2675:A:H8	1.57	0.69
24:BA:2704:C:H2'	24:BA:2705:A:C8	2.28	0.69
24:BA:284:U:H6	24:BA:284:U:OP2	1.76	0.69
24:BA:532:A:H8	24:BA:533:G:H1'	1.57	0.69
24:BA:590:A:H2'	24:BA:591:C:O4'	1.93	0.69
24:BA:740:U:O4	24:BA:757:U:O2	2.10	0.69
27:BD:12:SER:HA	27:BD:22:SER:O	1.91	0.69
27:BD:178:PRO:HG2	27:BD:179:SER:H	1.58	0.69
27:BD:252:TRP:N	27:BD:255:LYS:NZ	2.41	0.69
28:BE:105:THR:HG23	28:BE:197:ILE:CD1	2.23	0.69
29:BF:205:ARG:O	29:BF:208:GLY:N	2.26	0.69
29:BF:41:LEU:O	29:BF:44:ARG:CG	2.40	0.69
24:BA:675:A:H5''	29:BF:67:GLN:CD	2.12	0.69
33:BL:19:PRO:HB2	33:BL:22:PRO:CG	2.23	0.69
24:BA:1076:C:O2'	33:BL:90:LYS:HB3	1.93	0.69
34:BM:29:LYS:O	34:BM:31:ALA:N	2.26	0.69
35:BN:107:ARG:O	35:BN:109:LYS:HG3	1.93	0.69
35:BN:47:ILE:HD12	35:BN:52:VAL:CG2	2.21	0.69
36:BO:122:PRO:HG3	36:BO:137:LYS:O	1.91	0.69
36:BO:129:ALA:C	36:BO:130:PHE:HD2	1.94	0.69
38:BQ:96:ARG:HG2	38:BQ:98:LEU:CD1	2.23	0.69
39:BR:14:VAL:C	39:BR:18:ILE:HD13	2.13	0.69
35:BN:77:ILE:HD13	40:BS:65:LYS:NZ	2.08	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BT:48:ALA:HA	41:BT:51:LYS:HD2	1.75	0.69
42:BU:18:LEU:CD2	42:BU:18:LEU:H	2.05	0.69
43:BV:14:PRO:C	43:BV:16:LYS:NZ	2.46	0.69
45:BX:35:TYR:HE1	45:BX:65:ALA:O	1.76	0.69
46:BY:104:PHE:CZ	46:BY:171:ILE:HD11	2.27	0.69
46:BY:10:ARG:HB3	46:BY:36:LYS:CD	2.19	0.69
26:BC:108:MET:HE3	26:BC:131:LEU:HA	1.75	0.69
1:AA:1102:A:C6	1:AA:1103:C:N4	2.60	0.69
1:AA:1129:C:H1'	1:AA:1130:A:N7	2.06	0.69
1:AA:370:C:C2	1:AA:371:G:C8	2.81	0.69
4:AE:60:ASP:O	4:AE:63:MET:HB3	1.93	0.69
5:AF:118:GLN:O	5:AF:122:GLU:HG3	1.93	0.69
6:AG:34:GLU:O	6:AG:35:ARG:HB2	1.92	0.69
7:AH:102:ALA:HB3	7:AH:106:PRO:HB2	1.75	0.69
7:AH:103:GLY:O	7:AH:106:PRO:HD2	1.92	0.69
7:AH:150:ARG:HD3	7:AH:150:ARG:O	1.92	0.69
7:AH:45:PHE:CE1	7:AH:47:LYS:HD2	2.27	0.69
9:AJ:78:ARG:HE	9:AJ:80:VAL:HG23	1.57	0.69
10:AK:32:LYS:O	10:AK:36:LEU:HD23	1.92	0.69
14:AO:88:GLY:HA3	14:AO:99:HIS:CE1	2.27	0.69
16:AQ:40:CYS:N	16:AQ:43:CYS:SG	2.59	0.69
16:AQ:55:GLY:O	16:AQ:56:VAL:C	2.31	0.69
18:AS:28:ARG:HG3	18:AS:29:ASP:OD2	1.92	0.69
19:AT:29:HIS:CE1	19:AT:30:PRO:HG2	2.27	0.69
19:AT:4:LYS:O	19:AT:5:VAL:HG23	1.93	0.69
19:AT:88:TYR:HA	19:AT:91:ARG:NE	2.08	0.69
8:AI:99:ALA:CB	20:AU:31:LEU:HD11	2.22	0.69
21:AV:12:ASP:O	21:AV:16:LEU:HD13	1.93	0.69
22:AW:63:ILE:O	22:AW:66:ALA:HB3	1.92	0.69
24:BA:95:G:O2'	48:B1:42:ASN:HB2	1.91	0.69
48:B1:42:ASN:O	48:B1:45:ILE:HG13	1.93	0.69
53:B6:24:THR:O	53:B6:28:ARG:HG3	1.93	0.69
24:BA:1309:G:H2'	24:BA:1310:G:C5'	2.23	0.69
24:BA:142:G:H2'	24:BA:143:C:C6	2.28	0.69
24:BA:1470:G:H3'	24:BA:1470:G:H8	1.58	0.69
24:BA:1498:C:H1'	24:BA:1576:U:C4'	2.23	0.69
24:BA:1731:G:H22	24:BA:1733:G:N2	1.91	0.69
24:BA:197:A:H61	24:BA:248:G:N2	1.88	0.69
24:BA:2067:G:N2	24:BA:2069:G:H1'	2.08	0.69
24:BA:2472:G:H8	24:BA:2472:G:O5'	1.75	0.69
24:BA:2615:U:H2'	24:BA:2616:C:H6	1.58	0.69
24:BA:527:C:O4'	24:BA:2779:U:C4	2.46	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:284:U:C6	24:BA:284:U:OP2	2.45	0.69
24:BA:297:C:H2'	24:BA:298:G:O4'	1.93	0.69
24:BA:503:A:H4'	24:BA:504:U:H5''	1.75	0.69
24:BA:748:G:H3'	24:BA:750:A:OP2	1.93	0.69
27:BD:106:ILE:O	27:BD:107:ALA:HB2	1.93	0.69
27:BD:239:ARG:HD2	27:BD:239:ARG:N	2.07	0.69
28:BE:46:ALA:HB2	28:BE:85:ASN:HD21	1.57	0.69
30:BG:103:LEU:HD21	30:BG:176:LEU:CD1	2.23	0.69
30:BG:39:ILE:HG13	30:BG:157:ILE:CD1	2.21	0.69
30:BG:4:ASP:HA	30:BG:7:LEU:HB2	1.75	0.69
34:BM:18:ALA:HB2	34:BM:54:VAL:CG2	2.22	0.69
35:BN:37:ASP:H	35:BN:61:VAL:CB	2.06	0.69
35:BN:69:VAL:H	35:BN:104:ARG:NH2	1.90	0.69
41:BT:74:LEU:CD2	41:BT:78:THR:HG21	2.21	0.69
42:BU:62:LEU:HD11	42:BU:96:ILE:HD13	1.75	0.69
43:BV:73:ALA:O	43:BV:106:ILE:HG22	1.92	0.69
44:BW:66:LEU:O	44:BW:66:LEU:HD12	1.93	0.69
46:BY:157:LEU:HD13	46:BY:161:VAL:CG1	2.21	0.69
47:BZ:40:GLN:HB3	47:BZ:45:PHE:CE1	2.27	0.69
1:AA:60:A:C2	1:AA:107:G:N3	2.60	0.69
1:AA:1200:C:H5''	1:AA:1201:A:C3'	2.22	0.69
1:AA:1308:U:H5''	15:AP:110:ARG:HH22	1.57	0.69
1:AA:1435:G:C2	1:AA:1436:U:C4	2.80	0.69
1:AA:1399:C:H42	1:AA:1504:G:H1	1.41	0.69
1:AA:1520:G:H2'	1:AA:1521:G:H8	1.57	0.69
1:AA:264:U:O2	1:AA:264:U:C2'	2.40	0.69
1:AA:517:G:H5'	1:AA:519:C:N4	2.06	0.69
1:AA:627:G:O2'	1:AA:628:G:H5'	1.93	0.69
3:AB:37:A:OP2	3:AB:38:A:N7	2.26	0.69
4:AE:15:VAL:HG23	4:AE:16:HIS:CE1	2.28	0.69
4:AE:173:ALA:O	4:AE:176:GLU:HB2	1.93	0.69
4:AE:80:ILE:HD12	4:AE:208:ILE:HG23	1.75	0.69
4:AE:212:GLN:OE1	4:AE:215:LEU:HB3	1.92	0.69
5:AF:110:ASN:HD21	5:AF:140:ARG:HG2	1.56	0.69
1:AA:1298:C:H41	9:AJ:114:ARG:HB3	1.56	0.69
10:AK:26:VAL:HG13	10:AK:27:PRO:N	2.07	0.69
11:AL:16:ARG:NE	11:AL:18:PHE:CZ	2.61	0.69
11:AL:45:ALA:HB3	11:AL:74:ILE:CG2	2.21	0.69
1:AA:564:C:OP1	14:AO:15:ARG:CZ	2.41	0.69
17:AR:75:PRO:O	17:AR:78:TYR:HB3	1.93	0.69
18:AS:51:VAL:HG21	18:AS:73:LEU:CD1	2.22	0.69
19:AT:43:LEU:HD11	19:AT:69:LYS:HG3	1.72	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:AU:36:ASN:HB3	20:AU:40:LEU:CD2	2.23	0.69
22:AW:23:ARG:HD3	22:AW:24:LEU:N	2.07	0.69
49:B2:15:TYR:N	49:B2:15:TYR:CD1	2.60	0.69
50:B3:17:GLY:HA3	50:B3:33:VAL:O	1.93	0.69
54:B7:1:MET:N	54:B7:2:PRO:HD2	2.08	0.69
54:B7:30:ARG:NH1	54:B7:41:ILE:HG22	2.07	0.69
24:BA:1557:C:H5''	24:BA:1558:A:OP2	1.92	0.69
24:BA:1613:G:H3'	24:BA:1614:A:C5'	2.17	0.69
24:BA:1858:G:H22	24:BA:1884:A:H1'	1.57	0.69
24:BA:2266:A:H5''	24:BA:2267:A:O5'	1.93	0.69
24:BA:270(K):C:H3'	24:BA:270(L):U:H6	1.57	0.69
24:BA:64:A:H2'	24:BA:65:C:C5'	2.23	0.69
24:BA:666:G:H2'	24:BA:667:U:C6	2.27	0.69
24:BA:864:G:H2'	24:BA:865:C:H1'	1.73	0.69
24:BA:877:U:O2'	24:BA:878:A:H5'	1.93	0.69
25:BB:101:A:C2'	25:BB:102:G:H8	1.99	0.69
25:BB:4:C:N3	25:BB:117:G:N2	2.41	0.69
27:BD:119:ALA:CB	27:BD:130:ALA:H	2.05	0.69
28:BE:38:THR:HB	28:BE:39:PRO:HD3	1.75	0.69
28:BE:60:ASN:HA	28:BE:63:LEU:CD1	2.22	0.69
29:BF:186:ILE:HG22	29:BF:187:VAL:N	2.06	0.69
30:BG:125:PHE:CD2	30:BG:130:ASN:N	2.60	0.69
34:BM:18:ALA:HB2	34:BM:54:VAL:HG22	1.75	0.69
34:BM:10:GLU:HB3	34:BM:39:ARG:NH1	2.08	0.69
34:BM:87:LEU:HA	34:BM:90:MET:HG2	1.75	0.69
35:BN:24:VAL:HG21	35:BN:26:LYS:HG2	1.75	0.69
35:BN:70:LYS:HE2	35:BN:104:ARG:CG	2.22	0.69
35:BN:85:VAL:HG12	35:BN:93:PRO:HB3	1.74	0.69
37:BP:6:ARG:HG2	37:BP:7:MET:N	2.08	0.69
38:BQ:50:HIS:NE2	38:BQ:54:LEU:HD11	2.08	0.69
40:BS:29:ARG:HG2	40:BS:51:ARG:CG	2.20	0.69
40:BS:34:VAL:HG21	40:BS:36:GLU:OE2	1.93	0.69
41:BT:25:TRP:CE3	41:BT:26:GLY:N	2.61	0.69
41:BT:27:LEU:C	41:BT:29:SER:H	1.96	0.69
41:BT:50:ARG:NE	42:BU:75:PHE:CE2	2.56	0.69
41:BT:63:VAL:O	41:BT:64:ARG:C	2.30	0.69
41:BT:81:HIS:C	41:BT:117:GLN:NE2	2.46	0.69
42:BU:4:ILE:HA	42:BU:12:TYR:CD2	2.26	0.69
42:BU:18:LEU:HD12	42:BU:66:ARG:NH1	2.06	0.69
42:BU:62:LEU:CD2	42:BU:98:GLU:HA	2.21	0.69
44:BW:7:VAL:O	44:BW:8:ILE:HG23	1.92	0.69
44:BW:47:PHE:HZ	44:BW:92:LEU:HD11	1.57	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:31:ARG:N	46:BY:89:PHE:CE2	2.59	0.69
32:BK:98:ALA:HA	32:BK:101:LEU:HD21	1.73	0.69
32:BK:70:LYS:HA	32:BK:70:LYS:NZ	2.08	0.69
26:BC:76:ALA:HB2	26:BC:153:ILE:HD12	1.74	0.69
24:BA:2123:G:O2'	26:BC:172:HIS:HB2	1.93	0.69
26:BC:43:VAL:CG2	26:BC:214:VAL:HG22	2.23	0.69
26:BC:211:SER:CB	26:BC:223:ARG:HH21	2.05	0.69
24:BA:1417:C:N3	24:BA:1581:G:N2	2.40	0.69
34:BM:139:GLU:O	34:BM:140:VAL:CG2	2.41	0.69
1:AA:1328:C:OP1	15:AP:28:ALA:HB2	1.93	0.69
1:AA:1407:C:H2'	1:AA:1408:A:H5'	1.73	0.69
1:AA:191(C):G:H2'	1:AA:191(D):U:O4'	1.93	0.69
1:AA:640:A:C2'	1:AA:641:U:H5'	2.23	0.69
1:AA:684:A:O3'	13:AN:12:ARG:NH2	2.25	0.69
1:AA:735:C:H2'	1:AA:736:C:C6	2.26	0.69
1:AA:79:G:H2'	1:AA:80:G:O4'	1.93	0.69
3:AC:59:U:H2'	3:AC:59:U:O2	1.92	0.69
5:AF:116:VAL:HG11	5:AF:141:VAL:CG2	2.22	0.69
5:AF:30:ARG:HG2	5:AF:31:HIS:N	2.05	0.69
5:AF:6:HIS:HB3	16:AQ:49:HIS:CE1	2.28	0.69
6:AG:60:GLU:HA	6:AG:63:LYS:HD3	1.74	0.69
7:AH:122:GLU:CG	7:AH:126:ARG:HG3	2.23	0.69
8:AI:28:ARG:NH1	8:AI:28:ARG:HG2	2.08	0.69
9:AJ:64:GLN:HB3	9:AJ:128:ALA:HB1	1.74	0.69
1:AA:1367:C:P	11:AL:115:GLY:HA2	2.32	0.69
11:AL:97:LYS:HZ2	11:AL:102:LEU:HD22	1.57	0.69
1:AA:529:G:N1	14:AO:49:ASN:ND2	2.40	0.69
18:AS:60:LEU:HA	18:AS:64:ALA:CB	2.20	0.69
48:B1:27:LEU:CD2	48:B1:48:LEU:HB3	2.23	0.69
24:BA:1019:U:C2	24:BA:1144:G:N2	2.61	0.69
24:BA:1175:U:H5'	24:BA:1176:G:OP2	1.91	0.69
24:BA:143:C:C2	24:BA:144:C:C5	2.80	0.69
24:BA:1742:C:C4	24:BA:1743:G:H8	2.11	0.69
24:BA:1754:C:C2	24:BA:1755:A:H1'	2.28	0.69
24:BA:1970:A:O2'	24:BA:1971:A:P	2.50	0.69
24:BA:2019:A:N1	24:BA:2020:A:N3	2.41	0.69
24:BA:2022:U:H2'	24:BA:2022:U:O2	1.92	0.69
24:BA:2205:C:O2'	24:BA:2206:C:H5'	1.92	0.69
24:BA:2392:A:C2	24:BA:2429:G:C2	2.81	0.69
24:BA:2460:U:H5'	24:BA:2461:C:OP2	1.92	0.69
24:BA:247:G:H22	54:B7:8:LYS:CD	2.04	0.69
24:BA:2549:G:O2'	24:BA:2550:G:H5'	1.92	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2597:G:C4'	27:BD:242:ARG:NE	2.56	0.69
24:BA:2801:A:H2	24:BA:2895:U:H1'	1.56	0.69
24:BA:28:A:C2'	24:BA:29:U:H5'	2.23	0.69
24:BA:532:A:H3'	24:BA:533:G:O4'	1.92	0.69
24:BA:695:G:C6	24:BA:768:G:C6	2.81	0.69
24:BA:774:A:O2'	24:BA:775:G:O5'	2.10	0.69
25:BB:24:G:H5''	25:BB:25:A:H5'	1.75	0.69
27:BD:221:VAL:C	27:BD:222:ARG:HG3	2.13	0.69
27:BD:61:LEU:HD13	27:BD:86:PRO:CD	2.22	0.69
28:BE:60:ASN:CG	28:BE:61:ARG:H	1.95	0.69
28:BE:66:HIS:O	28:BE:67:PHE:C	2.32	0.69
30:BG:120:LEU:HA	30:BG:181:ARG:HB2	1.74	0.69
34:BM:107:LEU:HD11	34:BM:113:GLY:O	1.92	0.69
35:BN:75:SER:C	40:BS:77:PRO:HG2	2.13	0.69
37:BP:134:ARG:HG3	37:BP:134:ARG:NH1	2.07	0.69
37:BP:42:ILE:HD11	37:BP:46:GLN:CB	2.20	0.69
39:BR:28:VAL:O	39:BR:29:PHE:HB2	1.90	0.69
40:BS:103:ARG:C	40:BS:105:LEU:N	2.42	0.69
40:BS:35:LYS:O	40:BS:36:GLU:C	2.30	0.69
35:BN:79:PHE:HB2	40:BS:73:GLU:HG3	1.72	0.69
40:BS:28:VAL:N	40:BS:93:ARG:O	2.26	0.69
34:BM:42:TRP:CD1	41:BT:64:ARG:HG2	2.27	0.69
41:BT:61:TRP:O	41:BT:65:ILE:HG12	1.92	0.69
42:BU:6:LYS:CB	42:BU:10:LYS:HA	2.12	0.69
45:BX:56:PRO:O	45:BX:57:GLN:HG3	1.93	0.69
24:BA:2150:U:C2	24:BA:2151:G:N7	2.61	0.69
26:BC:103:ILE:HD12	26:BC:127:LEU:HD11	1.74	0.69
1:AA:1013:G:H2'	1:AA:1015:A:OP2	1.91	0.69
1:AA:1104:G:H2'	1:AA:1105:A:H8	1.57	0.69
1:AA:1128:C:C1'	1:AA:1146:A:H61	2.05	0.69
1:AA:1147:C:N3	1:AA:1148:U:C4	2.61	0.69
1:AA:1148:U:O4'	11:AL:16:ARG:HD2	1.93	0.69
1:AA:1423:G:H2'	1:AA:1424:C:C6	2.28	0.69
1:AA:1461:G:O2'	1:AA:1462:G:H5'	1.93	0.69
1:AA:20:U:O2'	1:AA:21:G:H5'	1.93	0.69
1:AA:745:C:H5'	1:AA:851:G:N3	2.08	0.69
1:AA:953:G:H2'	1:AA:954:G:C8	2.27	0.69
3:AD:76:A:P	24:BA:2421:G:H21	2.15	0.69
5:AF:7:PRO:O	5:AF:11:ARG:HG2	1.93	0.69
6:AG:90:GLY:HA3	6:AG:200:GLU:OE2	1.93	0.69
7:AH:118:ILE:O	7:AH:119:LEU:HD23	1.92	0.69
8:AI:10:LEU:N	8:AI:10:LEU:CD2	2.55	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AI:4:TYR:CE1	8:AI:72:VAL:HG11	2.28	0.69
11:AL:78:LYS:HA	11:AL:81:ILE:HD12	1.74	0.69
17:AR:81:LEU:CD2	17:AR:85:LEU:HD13	2.23	0.69
18:AS:20:VAL:CG2	18:AS:35:LYS:HA	2.21	0.69
48:B1:54:ARG:HH21	48:B1:54:ARG:HG2	1.57	0.69
49:B2:23:LEU:HD11	49:B2:53:LEU:HD13	1.74	0.69
52:B5:14:THR:HG22	52:B5:51:GLU:CG	2.21	0.69
24:BA:1007:C:H4'	34:BM:108:PRO:HD3	1.75	0.69
24:BA:1050:A:C2'	24:BA:1051:G:H5'	2.23	0.69
24:BA:1142(A):A:H5''	24:BA:1143:A:OP2	1.91	0.69
24:BA:1473:G:H2'	24:BA:1474:C:H6	1.56	0.69
24:BA:1774:C:C6	24:BA:1775:U:C5	2.71	0.69
24:BA:1779:U:O5'	24:BA:1779:U:C6	2.46	0.69
24:BA:1944:U:H1'	24:BA:1955:U:H6	1.53	0.69
24:BA:1785:A:C5'	24:BA:1982:C:H4'	2.22	0.69
24:BA:221:A:O2'	24:BA:271(B):G:C6	2.46	0.69
24:BA:2228:G:N7	24:BA:2229:C:C6	2.60	0.69
24:BA:2482:G:C5	24:BA:2483:C:C6	2.81	0.69
24:BA:272:G:O2'	24:BA:273:G:H5'	1.93	0.69
24:BA:309:G:H5'	24:BA:310:A:OP2	1.93	0.69
24:BA:392:C:H5''	24:BA:409:C:H5''	1.75	0.69
24:BA:1567:A:H5''	27:BD:59:LYS:HG2	1.75	0.69
27:BD:5:LYS:C	27:BD:82:ILE:HD12	2.13	0.69
24:BA:2811:G:H5''	28:BE:59:VAL:HG13	1.75	0.69
28:BE:64:LYS:CA	28:BE:67:PHE:HB2	2.23	0.69
30:BG:37:VAL:CG2	30:BG:159:VAL:HG12	2.23	0.69
30:BG:163:ALA:CB	30:BG:172:LEU:HD23	2.20	0.69
31:BH:157:TYR:HD1	31:BH:158:HIS:N	1.90	0.69
31:BH:69:ARG:HG3	31:BH:70:THR:H	1.57	0.69
34:BM:3:THR:HG22	34:BM:4:TYR:N	2.07	0.69
35:BN:106:LEU:HD13	40:BS:39:ARG:NH2	2.08	0.69
36:BO:6:LEU:O	36:BO:6:LEU:HD23	1.92	0.69
36:BO:77:ARG:HG2	36:BO:79:ARG:HB3	1.73	0.69
37:BP:127:ILE:HD13	37:BP:129:THR:HG21	1.72	0.69
38:BQ:44:LEU:HD13	38:BQ:48:VAL:CG2	2.23	0.69
24:BA:533:G:OP1	41:BT:24:TYR:HB3	1.92	0.69
41:BT:61:TRP:O	41:BT:62:ILE:C	2.30	0.69
41:BT:89:GLU:HB3	42:BU:52:VAL:H	1.55	0.69
43:BV:11:ARG:NH2	43:BV:11:ARG:H	1.87	0.69
45:BX:19:LYS:HG2	45:BX:39:VAL:HG12	1.75	0.69
46:BY:28:MET:CE	46:BY:88:PHE:HB2	2.22	0.69
1:AA:1082:G:C2'	1:AA:1083:U:H5'	2.23	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1201:A:O2'	1:AA:1202:G:H5''	1.92	0.68
1:AA:1465:C:N3	1:AA:1466:C:C6	2.60	0.68
1:AA:264:U:H2'	19:AT:64:PRO:HB2	1.73	0.68
1:AA:790:A:H2'	1:AA:791:G:O5'	1.92	0.68
1:AA:856:C:N3	1:AA:857:C:C5	2.61	0.68
1:AA:948:C:H2'	1:AA:949:A:H8	1.57	0.68
3:AB:12:U:N3	3:AB:24:G:N2	2.41	0.68
4:AE:187:LEU:CD2	4:AE:201:ILE:O	2.42	0.68
6:AG:112:VAL:CG2	6:AG:161:ASN:HD21	2.06	0.68
7:AH:76:ILE:HG21	7:AH:142:LEU:CB	2.23	0.68
8:AI:7:ASN:ND2	8:AI:62:TRP:CD1	2.58	0.68
10:AK:126:LYS:HD2	10:AK:126:LYS:C	2.13	0.68
17:AR:43:LEU:HD11	17:AR:56:LEU:HD23	1.74	0.68
18:AS:32:TYR:CD1	18:AS:32:TYR:N	2.62	0.68
20:AU:36:ASN:HB3	20:AU:40:LEU:HG	1.74	0.68
20:AU:47:THR:O	20:AU:82:THR:HA	1.92	0.68
21:AV:36:ARG:HG3	21:AV:72:GLY:HA2	1.75	0.68
22:AW:56:MET:HG2	22:AW:88:VAL:CG2	2.22	0.68
49:B2:35:ARG:HH12	49:B2:47:VAL:CG2	2.04	0.68
51:B4:43:HIS:O	51:B4:44:THR:HG23	1.93	0.68
51:B4:58:LEU:HD13	51:B4:59:GLU:HB2	1.76	0.68
55:B8:9:ARG:HD3	55:B8:14:CYS:O	1.93	0.68
24:BA:1264:G:C5'	24:BA:1265:A:H5''	2.23	0.68
24:BA:1283:G:N2	24:BA:1286:A:O4'	2.26	0.68
24:BA:1339:G:C5'	44:BW:16:LYS:HD3	2.23	0.68
24:BA:1352:U:O2'	24:BA:1353:A:H5'	1.93	0.68
24:BA:1567:A:O2'	24:BA:1568:G:C6	2.45	0.68
24:BA:1638:C:H2'	24:BA:1639:U:O4'	1.93	0.68
24:BA:1954:G:HO2'	24:BA:1955:U:H5'	1.54	0.68
24:BA:2277:G:H5''	47:BZ:12:ASN:ND2	2.08	0.68
24:BA:2282:G:C2	24:BA:2425:A:C8	2.81	0.68
24:BA:2371:G:H4'	52:B5:46:HIS:CB	2.19	0.68
24:BA:2468:G:C8	24:BA:2476:A:N1	2.61	0.68
24:BA:2498:C:O2	24:BA:2498:C:H2'	1.92	0.68
24:BA:2581:G:N2	24:BA:2610:C:C6	2.62	0.68
24:BA:2697:G:N2	24:BA:2698:U:H1'	2.08	0.68
24:BA:2848:G:N2	24:BA:2849:U:H3	1.91	0.68
24:BA:391:G:H2'	24:BA:392:C:H6	1.55	0.68
24:BA:408:G:O5'	24:BA:408:G:H8	1.76	0.68
24:BA:499:U:H5	24:BA:500:G:N3	1.90	0.68
17:AR:53:HIS:CD2	24:BA:715:G:H22	2.11	0.68
24:BA:783:A:H2'	24:BA:784:A:C5'	2.23	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:955:C:H2'	24:BA:956:G:O5'	1.93	0.68
27:BD:8:PRO:HG2	27:BD:26:LYS:HG3	1.73	0.68
28:BE:98:PRO:HA	28:BE:172:VAL:CG2	2.22	0.68
29:BF:41:LEU:HA	29:BF:44:ARG:HE	1.58	0.68
29:BF:9:ILE:HG13	29:BF:122:LYS:HG3	1.75	0.68
30:BG:96:ARG:O	30:BG:100:TRP:CE3	2.46	0.68
33:BL:99:ILE:CG2	33:BL:100:THR:N	2.56	0.68
33:BL:105:LEU:O	33:BL:108:ALA:HB3	1.93	0.68
33:BL:10:LEU:CD1	33:BL:27:LEU:HD21	2.22	0.68
33:BL:9:LYS:HG2	33:BL:56:GLU:HG3	1.75	0.68
34:BM:54:VAL:O	34:BM:122:VAL:HB	1.93	0.68
34:BM:11:PRO:HB2	34:BM:13:TRP:CZ3	2.25	0.68
34:BM:34:LEU:HB3	34:BM:116:LEU:HD21	1.74	0.68
34:BM:45:ASN:OD1	34:BM:45:ASN:N	2.26	0.68
36:BO:112:LEU:O	36:BO:128:HIS:CE1	2.46	0.68
38:BQ:65:LEU:HD23	38:BQ:65:LEU:C	2.13	0.68
40:BS:95:ARG:NH2	40:BS:96:ARG:HH21	1.90	0.68
24:BA:1248:G:H8	41:BT:2:PRO:HA	1.55	0.68
41:BT:45:TYR:HB3	41:BT:49:HIS:HE1	1.57	0.68
41:BT:88:ILE:H	42:BU:52:VAL:HG22	1.57	0.68
42:BU:61:VAL:O	42:BU:99:ILE:CB	2.39	0.68
44:BW:15:GLU:HB3	44:BW:16:LYS:CE	2.23	0.68
45:BX:50:ARG:HB2	45:BX:54:LYS:HD3	1.75	0.68
45:BX:88:LYS:HB3	45:BX:91:GLU:OE2	1.93	0.68
32:BK:86:THR:HG22	32:BK:87:LYS:N	2.09	0.68
26:BC:41:VAL:HG22	26:BC:216:THR:CG2	2.20	0.68
3:AB:1:G:N3	3:AB:1:G:H2'	2.08	0.68
1:AA:1514:C:H2'	1:AA:1515:C:H6	1.58	0.68
1:AA:38:G:N2	1:AA:397:A:C5'	2.37	0.68
1:AA:432:A:N7	1:AA:433:C:C5	2.61	0.68
1:AA:474:G:H5'	18:AS:81:ARG:CG	2.22	0.68
1:AA:887:G:H2'	1:AA:888:G:C8	2.29	0.68
5:AF:41:GLY:O	5:AF:45:LYS:HB2	1.93	0.68
7:AH:76:ILE:HG21	7:AH:142:LEU:HB3	1.73	0.68
7:AH:68:GLU:O	7:AH:70:PRO:HD3	1.93	0.68
6:AG:88:VAL:HG22	7:AH:97:GLY:H	1.58	0.68
10:AK:11:THR:O	10:AK:12:ARG:C	2.32	0.68
13:AN:69:ALA:O	13:AN:72:ALA:HB3	1.92	0.68
13:AN:82:VAL:HG12	13:AN:108:ILE:HG23	1.74	0.68
14:AO:84:LEU:HD23	14:AO:84:LEU:C	2.14	0.68
20:AU:36:ASN:HB3	20:AU:40:LEU:HD21	1.75	0.68
22:AW:56:MET:SD	22:AW:84:LEU:HD12	2.33	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AW:55:ILE:O	22:AW:57:ARG:N	2.26	0.68
48:B1:41:GLN:O	48:B1:43:HIS:N	2.26	0.68
48:B1:27:LEU:HG	48:B1:48:LEU:HD23	1.75	0.68
51:B4:9:LYS:O	51:B4:10:LYS:CB	2.40	0.68
52:B5:16:CYS:SG	52:B5:19:ARG:O	2.51	0.68
52:B5:20:ASN:HD21	52:B5:43:CYS:CA	2.06	0.68
55:B8:29:ASN:HB3	55:B8:32:HIS:ND1	2.08	0.68
24:BA:331:A:H61	24:BA:1209:G:H2'	1.58	0.68
24:BA:1287:A:O4'	38:BQ:104:ARG:HD2	1.93	0.68
24:BA:1472:A:H1'	24:BA:1473:G:C8	2.28	0.68
24:BA:1516:U:H2'	24:BA:1517:G:H8	1.58	0.68
24:BA:1559:G:C6	24:BA:1560:G:H4'	2.28	0.68
24:BA:1708:C:H2'	24:BA:1709:U:C5'	2.23	0.68
24:BA:1773:A:C2	24:BA:1977:A:N6	2.60	0.68
24:BA:199:A:C6	24:BA:2433:A:C2	2.82	0.68
24:BA:2061:G:N2	24:BA:2063:C:O4'	2.26	0.68
24:BA:20:C:O2'	24:BA:21:A:C5'	2.42	0.68
24:BA:2219:G:H2'	24:BA:2224:G:C5'	2.22	0.68
24:BA:2256:G:N2	24:BA:2275:C:H41	1.92	0.68
24:BA:2588:G:N7	24:BA:2589:A:N7	2.41	0.68
24:BA:2654:A:H1'	24:BA:2656:U:C4	2.28	0.68
24:BA:33:U:HO2'	24:BA:34:C:H5	1.41	0.68
24:BA:412:A:C2	24:BA:413:C:H1'	2.27	0.68
24:BA:552:G:O2'	24:BA:553:U:H5'	1.94	0.68
24:BA:727:A:C6	24:BA:729:G:C6	2.81	0.68
24:BA:1501:C:O4'	27:BD:100:GLY:HA2	1.93	0.68
27:BD:47:GLY:O	27:BD:49:ILE:HD12	1.93	0.68
28:BE:200:GLU:CB	28:BE:202:LYS:HZ3	2.06	0.68
31:BH:159:GLU:OE2	31:BH:161:GLY:N	2.20	0.68
33:BL:17:ALA:O	33:BL:18:THR:HG23	1.93	0.68
34:BM:55:VAL:HG22	34:BM:56:ASN:H	1.59	0.68
35:BN:105:GLU:C	35:BN:111:PHE:HZ	1.96	0.68
35:BN:35:VAL:HA	35:BN:61:VAL:CG1	2.23	0.68
35:BN:68:GLU:HG2	35:BN:76:ALA:C	2.13	0.68
37:BP:37:LEU:HD23	37:BP:100:GLY:HA3	1.74	0.68
38:BQ:74:LYS:HA	38:BQ:77:ARG:HH22	1.59	0.68
38:BQ:97:VAL:C	38:BQ:98:LEU:HG	2.14	0.68
40:BS:87:ASP:OD2	40:BS:89:VAL:HG23	1.94	0.68
40:BS:93:ARG:N	40:BS:93:ARG:HE	1.91	0.68
24:BA:1252:G:N2	41:BT:37:GLU:HG3	2.04	0.68
24:BA:1009:A:O4'	41:BT:59:ARG:NH1	2.26	0.68
45:BX:9:LYS:HB2	45:BX:110:GLU:CD	2.12	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2112:G:N3	24:BA:2112:G:H2'	2.07	0.68
26:BC:153:ILE:O	26:BC:156:ILE:HB	1.92	0.68
26:BC:212:VAL:O	26:BC:223:ARG:HG3	1.93	0.68
26:BC:97:GLU:HB3	26:BC:126:LYS:NZ	2.08	0.68
24:BA:1418:G:H1'	24:BA:1581:G:N2	2.08	0.68
39:BR:33:LYS:HG2	39:BR:54:LEU:CD2	2.23	0.68
1:AA:1063:C:C5	1:AA:1064:G:N7	2.62	0.68
1:AA:1213:A:C6	1:AA:1215:G:C2	2.81	0.68
1:AA:236:G:C3'	1:AA:237:C:H6	2.06	0.68
3:AC:41:C:C4	3:AC:42:C:C5	2.82	0.68
4:AE:95:GLN:O	4:AE:97:TRP:N	2.27	0.68
9:AJ:12:LEU:O	9:AJ:12:LEU:HD12	1.94	0.68
9:AJ:70:LYS:HB3	9:AJ:96:GLN:HG2	1.75	0.68
10:AK:88:LYS:N	10:AK:88:LYS:HZ2	1.91	0.68
1:AA:964:A:H1'	12:AM:55:LYS:HZ2	1.57	0.68
13:AN:81:ASP:OD1	13:AN:106:LYS:HD2	1.94	0.68
17:AR:77:ARG:O	17:AR:80:ALA:HB3	1.92	0.68
1:AA:474:G:H5'	18:AS:81:ARG:HE	1.58	0.68
22:AW:14:LYS:N	22:AW:17:ARG:NH2	2.41	0.68
24:BA:1166:C:H2'	24:BA:1167:U:C6	2.28	0.68
24:BA:1404:C:O2'	24:BA:1405:U:H5'	1.93	0.68
24:BA:1464:C:H2'	24:BA:1465:G:H8	1.58	0.68
24:BA:1743:G:O3'	24:BA:1743:G:OP1	2.12	0.68
24:BA:781:A:C2	24:BA:1776:G:N3	2.61	0.68
24:BA:1970:A:O2'	24:BA:1971:A:O5'	2.12	0.68
24:BA:2271:G:OP1	47:BZ:19:LYS:O	2.12	0.68
3:AB:53:G:H4'	24:BA:2470:G:OP1	1.94	0.68
24:BA:2492:U:C2'	24:BA:2492:U:O2	2.40	0.68
24:BA:534:U:O2'	41:BT:49:HIS:CD2	2.46	0.68
24:BA:636:G:H4'	24:BA:638:G:O2'	1.92	0.68
24:BA:657:U:H2'	24:BA:658:C:C6	2.28	0.68
24:BA:920:G:C2'	24:BA:921:G:H5'	2.23	0.68
24:BA:91:A:H3'	24:BA:92:G:C8	2.27	0.68
27:BD:29:PRO:CB	27:BD:82:ILE:O	2.42	0.68
28:BE:105:THR:OG1	28:BE:106:GLY:N	2.25	0.68
24:BA:1657:C:C5'	28:BE:133:LYS:HD3	2.17	0.68
3:AC:56:C:O2'	30:BG:82:LEU:HA	1.92	0.68
34:BM:55:VAL:C	34:BM:57:ALA:N	2.40	0.68
37:BP:137:TYR:O	37:BP:138:ASP:OD1	2.10	0.68
38:BQ:73:VAL:HG23	38:BQ:74:LYS:N	2.08	0.68
38:BQ:52:ILE:HD12	38:BQ:94:TYR:CD1	2.28	0.68
39:BR:49:VAL:HG13	39:BR:76:LYS:HZ1	1.58	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BR:49:VAL:HG22	39:BR:76:LYS:NZ	2.07	0.68
41:BT:74:LEU:HB3	41:BT:78:THR:CB	2.24	0.68
42:BU:33:VAL:HG12	42:BU:34:GLU:N	2.07	0.68
43:BV:11:ARG:O	43:BV:11:ARG:HG2	1.92	0.68
44:BW:15:GLU:HB3	44:BW:16:LYS:NZ	2.09	0.68
46:BY:9:TYR:HB2	46:BY:14:LYS:HG2	1.74	0.68
26:BC:51:PRO:HB3	26:BC:165:ASN:ND2	2.08	0.68
2:A1:48:U:H2'	2:A1:49:U:C6	2.28	0.68
1:AA:1250:A:N3	1:AA:1370:G:O2'	2.26	0.68
1:AA:195:A:H4'	22:AW:68:LYS:NZ	2.08	0.68
1:AA:259:G:H2'	1:AA:260:G:H8	1.52	0.68
1:AA:359:U:H2'	1:AA:360:A:C8	2.28	0.68
1:AA:442:C:O2	1:AA:442:C:H2'	1.93	0.68
1:AA:573:A:C2	1:AA:574:A:C6	2.80	0.68
1:AA:831:U:H2'	1:AA:832:C:C6	2.29	0.68
1:AA:899:C:N4	1:AA:900:A:N1	2.40	0.68
1:AA:992:U:O2'	1:AA:993:G:OP2	2.11	0.68
3:AC:25:C:N4	3:AC:26:A:N6	2.41	0.68
4:AE:136:VAL:N	4:AE:139:LYS:HZ2	1.91	0.68
4:AE:43:ASP:OD1	4:AE:44:LEU:HG	1.93	0.68
6:AG:90:GLY:HA3	6:AG:200:GLU:CD	2.14	0.68
7:AH:88:LYS:HB3	7:AH:123:LEU:O	1.94	0.68
10:AK:46:LYS:HZ1	10:AK:65:TYR:H	1.39	0.68
13:AN:91:ARG:O	13:AN:94:ALA:HB3	1.92	0.68
14:AO:82:VAL:HG12	14:AO:83:VAL:N	2.08	0.68
17:AR:36:ILE:HD12	17:AR:63:ARG:CD	2.22	0.68
19:AT:44:ALA:HB1	19:AT:72:ARG:CA	2.22	0.68
49:B2:6:VAL:HG23	49:B2:35:ARG:CG	2.14	0.68
51:B4:6:VAL:HG13	51:B4:6:VAL:O	1.94	0.68
52:B5:19:ARG:HG2	52:B5:43:CYS:SG	2.34	0.68
52:B5:32:ASN:CG	52:B5:33:LYS:N	2.39	0.68
24:BA:1241:A:C4'	24:BA:1241:A:N3	2.55	0.68
24:BA:1314:C:C2'	24:BA:1315:C:H5'	2.23	0.68
24:BA:1332:G:C5	24:BA:1609:A:C6	2.82	0.68
24:BA:139:G:H2'	24:BA:140:A:O5'	1.94	0.68
24:BA:1495:A:C2	24:BA:1496:A:N6	2.62	0.68
24:BA:1859:A:H2'	24:BA:1860:G:O4'	1.92	0.68
24:BA:1943:U:H1'	24:BA:1945:G:H5''	1.75	0.68
24:BA:2073:C:O2'	24:BA:2074:U:H5'	1.94	0.68
24:BA:2284:C:H3'	52:B5:27:LYS:HZ1	1.59	0.68
24:BA:2376:A:H2'	24:BA:2377:A:O4'	1.92	0.68
3:AC:75:C:P	24:BA:2602:A:OP1	2.51	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:270(X):G:H2'	24:BA:270(Y):G:C5'	2.17	0.68
24:BA:2784:C:C4'	28:BE:41:LYS:HE2	2.23	0.68
24:BA:292:C:C3'	24:BA:293:U:N3	2.55	0.68
24:BA:312:G:H3'	24:BA:313:C:C5	2.28	0.68
24:BA:455:C:P	24:BA:472:A:N1	2.67	0.68
24:BA:571:A:H1'	24:BA:573:G:N7	2.07	0.68
24:BA:660:G:H2'	24:BA:661:C:C6	2.29	0.68
24:BA:778:G:N2	24:BA:787:U:C2	2.61	0.68
25:BB:24:G:O5'	25:BB:24:G:H8	1.77	0.68
27:BD:176:ARG:CG	27:BD:176:ARG:HH11	2.04	0.68
27:BD:46:GLN:CD	27:BD:51:VAL:HG23	2.13	0.68
28:BE:147:PRO:CG	28:BE:149:ARG:HD2	2.23	0.68
28:BE:44:TYR:CD2	28:BE:45:THR:N	2.61	0.68
24:BA:669:G:N7	29:BF:54:ARG:NH1	2.40	0.68
30:BG:126:ASP:HA	30:BG:166:ASP:OD2	1.92	0.68
30:BG:166:ASP:O	30:BG:167:GLU:C	2.32	0.68
30:BG:120:LEU:HD22	30:BG:181:ARG:CG	2.24	0.68
33:BL:12:LEU:HD22	33:BL:19:PRO:CG	2.23	0.68
34:BM:34:LEU:HD22	34:BM:120:LEU:HB2	1.75	0.68
24:BA:995:C:H42	34:BM:3:THR:CA	2.06	0.68
34:BM:75:TYR:HD1	34:BM:75:TYR:H	1.39	0.68
34:BM:85:ILE:HB	34:BM:90:MET:SD	2.34	0.68
37:BP:27:VAL:HG13	37:BP:104:PHE:HE2	1.57	0.68
38:BQ:107:ASP:OD1	38:BQ:109:ALA:HB2	1.94	0.68
38:BQ:21:TYR:HB3	38:BQ:47:PHE:CD2	2.29	0.68
38:BQ:20:LEU:HD13	38:BQ:21:TYR:N	2.07	0.68
24:BA:2708:G:OP1	38:BQ:68:ARG:HG2	1.92	0.68
39:BR:23:ARG:NH1	39:BR:42:ASP:CB	2.54	0.68
40:BS:28:VAL:O	40:BS:52:ILE:CG1	2.42	0.68
40:BS:65:LYS:HD3	40:BS:75:ILE:CD1	2.23	0.68
41:BT:108:GLU:C	41:BT:110:VAL:N	2.42	0.68
24:BA:1009:A:H4'	41:BT:62:ILE:HG21	1.73	0.68
45:BX:44:ILE:HG22	45:BX:44:ILE:O	1.93	0.68
47:BZ:28:GLY:CA	47:BZ:67:VAL:HB	2.23	0.68
47:BZ:31:VAL:HG11	47:BZ:67:VAL:HG22	1.76	0.68
24:BA:2114:A:N3	24:BA:2167:U:O2'	2.25	0.68
24:BA:2121:G:H1'	26:BC:167:LYS:CE	2.24	0.68
1:AA:1008:C:H2'	1:AA:1009:G:O4'	1.93	0.68
24:BA:491:G:H2'	24:BA:492:A:C8	2.28	0.68
10:AK:53:VAL:O	10:AK:56:LYS:HB2	1.93	0.68
1:AA:1045:C:H2'	1:AA:1046:A:C8	2.27	0.68
1:AA:1292:U:H2'	1:AA:1293:G:H8	1.58	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1402:C:H2'	1:AA:1403:C:H6	1.57	0.68
1:AA:1465:C:H2'	1:AA:1466:C:O5'	1.94	0.68
1:AA:193:C:C2	1:AA:194:C:C5	2.82	0.68
1:AA:194:C:H5''	22:AW:65:LYS:NZ	2.09	0.68
1:AA:262:A:C2'	1:AA:263:A:C8	2.74	0.68
1:AA:130:A:C4	1:AA:264:U:H1'	2.28	0.68
1:AA:314:C:H5''	1:AA:315:A:OP2	1.94	0.68
1:AA:394:G:C4	1:AA:395:C:C5	2.82	0.68
1:AA:59:A:H4'	1:AA:388:G:C5'	2.24	0.68
1:AA:608:A:C2	1:AA:609:A:C8	2.81	0.68
1:AA:644:G:O2'	1:AA:645:C:H5'	1.94	0.68
1:AA:821:G:H2'	1:AA:822:C:H6	1.58	0.68
1:AA:945:G:C2	1:AA:946:A:C8	2.81	0.68
1:AA:97:U:O2'	1:AA:99:C:H5'	1.94	0.68
4:AE:213:LEU:C	4:AE:213:LEU:HD23	2.14	0.68
4:AE:23:ARG:HB2	4:AE:23:ARG:NH1	2.09	0.68
1:AA:1189:C:O2'	5:AF:176:HIS:NE2	2.27	0.68
6:AG:109:GLY:O	6:AG:110:PHE:C	2.31	0.68
6:AG:146:ILE:HD12	6:AG:183:GLY:O	1.93	0.68
7:AH:9:LYS:HE2	7:AH:9:LYS:HA	1.75	0.68
8:AI:79:LEU:HB2	8:AI:88:VAL:HG11	1.74	0.68
9:AJ:143:ARG:O	9:AJ:146:GLU:OE1	2.11	0.68
9:AJ:2:ALA:HB1	9:AJ:5:ARG:O	1.94	0.68
1:AA:1240:U:H1'	9:AJ:42:ILE:HD11	1.76	0.68
11:AL:6:GLY:CA	11:AL:83:ARG:HB3	2.23	0.68
13:AN:45:GLY:HA3	13:AN:55:LYS:HB3	1.76	0.68
13:AN:41:THR:CB	13:AN:71:LYS:HD3	2.22	0.68
14:AO:37:CYS:CB	14:AO:58:VAL:HG22	2.24	0.68
14:AO:68:ALA:HB1	14:AO:98:TYR:C	2.13	0.68
19:AT:88:TYR:CA	19:AT:91:ARG:HH21	2.06	0.68
20:AU:53:ARG:CG	20:AU:63:GLN:HE21	2.05	0.68
20:AU:63:GLN:O	20:AU:67:ALA:HB2	1.93	0.68
22:AW:43:LEU:HD23	22:AW:46:GLU:OE2	1.94	0.68
53:B6:42:LEU:O	53:B6:45:ALA:N	2.25	0.68
24:BA:126:A:C5'	53:B6:47:ARG:HH12	2.07	0.68
53:B6:47:ARG:HG2	53:B6:48:LYS:N	2.08	0.68
54:B7:6:THR:O	54:B7:9:GLY:N	2.26	0.68
24:BA:1177:A:C2	24:BA:1178:C:N3	2.61	0.68
24:BA:1203:G:O2'	24:BA:1204:A:OP1	2.11	0.68
24:BA:1321:A:O3'	43:BV:11:ARG:NH1	2.27	0.68
24:BA:1270:C:C1'	24:BA:1325:G:N7	2.48	0.68
24:BA:1449:A:C2	24:BA:1449(A):G:H1'	2.29	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1455:G:N2	24:BA:1456:G:H1'	2.09	0.68
24:BA:1491:G:C5	24:BA:1492:G:H1'	2.28	0.68
24:BA:1780:A:OP2	24:BA:1782:C:P	2.51	0.68
24:BA:764:A:N6	24:BA:1789:A:H2	1.90	0.68
24:BA:1858:G:C5	24:BA:1883:G:N1	2.60	0.68
24:BA:2081:C:O2'	24:BA:2082:A:H5'	1.94	0.68
24:BA:2231:C:H2'	24:BA:2232:U:C6	2.27	0.68
24:BA:2346:A:C4'	24:BA:2383:G:O4'	2.41	0.68
24:BA:2428:G:H4'	24:BA:2429:G:O5'	1.94	0.68
24:BA:2493:U:C3'	24:BA:2493:U:C6	2.75	0.68
24:BA:2584:U:C2'	24:BA:2585:U:C5	2.73	0.68
24:BA:2731:G:N2	24:BA:2732:G:C2	2.62	0.68
24:BA:2805:G:N7	24:BA:2807:G:H8	1.92	0.68
24:BA:353:G:C6	24:BA:354:G:C6	2.80	0.68
24:BA:919:G:C4	24:BA:920:G:C8	2.82	0.68
24:BA:970:C:O2'	24:BA:984:A:O2'	2.12	0.68
27:BD:146:GLU:HG2	27:BD:147:LEU:O	1.92	0.68
27:BD:89:SER:HB2	27:BD:202:LYS:HZ1	1.57	0.68
29:BF:30:PRO:O	29:BF:33:LEU:CG	2.35	0.68
31:BH:7:LEU:N	31:BH:69:ARG:HE	1.91	0.68
36:BO:97:PRO:N	36:BO:102:ARG:CZ	2.57	0.68
37:BP:127:ILE:N	37:BP:127:ILE:HD12	2.08	0.68
38:BQ:61:HIS:C	38:BQ:64:ARG:HD3	2.14	0.68
40:BS:50:ILE:HD12	40:BS:66:VAL:HG23	1.75	0.68
41:BT:93:LYS:H	42:BU:10:LYS:NZ	1.83	0.68
43:BV:25:ARG:CD	43:BV:74:ALA:HB3	2.24	0.68
44:BW:49:VAL:HG12	44:BW:88:LYS:CB	2.24	0.68
3:AD:9:A:N3	3:AD:46:G:H1'	2.09	0.68
28:BE:17:ASP:N	28:BE:17:ASP:OD2	2.23	0.68
1:AA:112:G:OP1	1:AA:389:A:O2'	2.12	0.68
1:AA:831:U:H2'	1:AA:832:C:H6	1.59	0.68
3:AC:18:G:C2	3:AC:58:A:C4	2.81	0.68
4:AE:136:VAL:HA	4:AE:139:LYS:NZ	2.09	0.68
5:AF:22:TRP:HB3	5:AF:59:ARG:HB3	1.74	0.68
6:AG:192:GLU:OE1	6:AG:192:GLU:N	2.27	0.68
6:AG:24:GLU:C	6:AG:27:TYR:HB3	2.14	0.68
6:AG:35:ARG:O	6:AG:37:PRO:N	2.27	0.68
7:AH:74:GLY:O	7:AH:115:VAL:HG12	1.92	0.68
7:AH:43:LEU:HB3	7:AH:136:MET:CE	2.23	0.68
7:AH:79:GLU:HB3	7:AH:91:LEU:O	1.93	0.68
8:AI:16:GLN:HG3	8:AI:17:SER:N	2.09	0.68
9:AJ:46:ALA:HB2	9:AJ:120:ILE:HD12	1.76	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AL:49:PRO:HD3	11:AL:78:LYS:HZ3	1.58	0.68
12:AM:76:ASN:O	12:AM:78:ASN:N	2.26	0.68
1:AA:518:C:O2'	14:AO:50:SER:HB3	1.92	0.68
16:AQ:27:CYS:H	16:AQ:43:CYS:HB3	1.58	0.68
16:AQ:46:GLU:O	16:AQ:49:HIS:HB2	1.93	0.68
17:AR:81:LEU:HD23	17:AR:85:LEU:HD13	1.74	0.68
22:AW:40:ALA:HA	22:AW:55:ILE:HD13	1.74	0.68
49:B2:52:HIS:O	49:B2:54:VAL:N	2.27	0.68
52:B5:19:ARG:HB2	52:B5:43:CYS:SG	2.33	0.68
53:B6:17:GLY:C	53:B6:21:ARG:HH12	1.97	0.68
54:B7:38:GLY:O	54:B7:41:ILE:N	2.25	0.68
24:BA:1153:C:H2'	24:BA:1154:G:C8	2.27	0.68
24:BA:1188:U:C2'	24:BA:1189:A:H5'	2.24	0.68
24:BA:1196:C:N3	24:BA:1250:G:O6	2.27	0.68
24:BA:138:G:N2	24:BA:140:A:H62	1.91	0.68
24:BA:1472:A:O2'	24:BA:1473:G:H8	1.76	0.68
24:BA:1608:A:H4'	24:BA:1609:A:OP1	1.93	0.68
24:BA:1698:A:O2'	24:BA:1699:G:O5'	2.10	0.68
24:BA:1735:C:N3	24:BA:1741:C:N4	2.40	0.68
24:BA:1936:A:H5'	24:BA:1937:A:C2	2.28	0.68
24:BA:223:A:C2	24:BA:422:A:N7	2.62	0.68
24:BA:2265:U:H2'	24:BA:2266:A:OP1	1.92	0.68
24:BA:2331:G:C2	24:BA:2385:C:N4	2.61	0.68
24:BA:242:G:N7	54:B7:2:PRO:HG2	2.09	0.68
24:BA:2436:G:H2'	24:BA:2437:U:C6	2.28	0.68
24:BA:2712:U:OP1	24:BA:2714:G:H4'	1.94	0.68
24:BA:470:A:N3	24:BA:471:A:H1'	2.08	0.68
24:BA:585:G:H1	24:BA:1253:A:P	2.17	0.68
24:BA:704:G:N2	24:BA:726:G:H1'	2.07	0.68
24:BA:687:C:H1'	24:BA:788:A:C5'	2.21	0.68
24:BA:814:C:OP1	42:BU:85:LYS:HB2	1.94	0.68
25:BB:117:G:N2	25:BB:118:G:C8	2.62	0.68
24:BA:2226:C:O2'	27:BD:262:ARG:HG2	1.93	0.68
28:BE:8:LYS:HZ2	28:BE:9:VAL:CG1	2.01	0.68
29:BF:7:TYR:H	29:BF:20:LEU:HD22	1.59	0.68
29:BF:51:THR:O	29:BF:52:LYS:HG3	1.94	0.68
30:BG:144:ILE:HD12	30:BG:147:ASP:OD2	1.93	0.68
30:BG:44:GLY:CA	30:BG:72:ARG:HB3	2.24	0.68
34:BM:23:LEU:HD11	34:BM:62:VAL:HA	1.75	0.68
35:BN:103:ALA:HB1	35:BN:107:ARG:CZ	2.24	0.68
36:BO:99:LEU:HD13	36:BO:101:VAL:CG2	2.23	0.68
38:BQ:83:ILE:HD12	38:BQ:86:ARG:NE	2.08	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BS:29:ARG:HA	40:BS:50:ILE:O	1.94	0.68
40:BS:59:THR:N	40:BS:61:PHE:CZ	2.61	0.68
42:BU:40:LEU:HG	42:BU:54:GLY:C	2.14	0.68
42:BU:68:LYS:HG2	42:BU:95:LEU:HD11	1.74	0.68
46:BY:127:LYS:HA	46:BY:164:ALA:HB3	1.76	0.68
46:BY:70:LEU:O	46:BY:88:PHE:HA	1.94	0.68
32:BK:62:LYS:O	32:BK:65:ALA:HB3	1.94	0.68
26:BC:11:LEU:O	26:BC:14:VAL:HB	1.94	0.68
26:BC:167:LYS:HG3	26:BC:168:THR:H	1.56	0.68
26:BC:171:ILE:HG12	26:BC:172:HIS:N	2.09	0.68
1:AA:1209:C:O2'	1:AA:1210:C:H5'	1.93	0.68
1:AA:1221:G:OP1	1:AA:1320:C:N4	2.27	0.68
1:AA:379:C:H2'	1:AA:380:G:H5'	1.75	0.68
1:AA:427:U:C2	1:AA:428:G:N7	2.62	0.68
1:AA:516:U:C4	1:AA:517:G:N1	2.62	0.68
1:AA:915:A:O5'	1:AA:915:A:H8	1.77	0.68
1:AA:963:G:O2'	1:AA:964:A:H5'	1.94	0.68
3:AB:51:U:O2'	24:BA:2471:C:H4'	1.93	0.68
3:AC:15:G:OP2	3:AC:15:G:C8	2.46	0.68
4:AE:184:VAL:O	4:AE:198:ASP:CB	2.36	0.68
4:AE:82:ARG:O	4:AE:86:GLU:HG3	1.93	0.68
5:AF:38:ARG:HB2	5:AF:94:LEU:CD2	2.24	0.68
12:AM:27:ALA:HB2	12:AM:85:LEU:HG	1.75	0.68
1:AA:1316:G:O6	21:AV:6:LYS:HE2	1.94	0.68
48:B1:33:GLN:NE2	48:B1:33:GLN:N	2.42	0.68
50:B3:14:ILE:HG22	50:B3:14:ILE:O	1.93	0.68
50:B3:41:PRO:C	50:B3:58:ARG:NH1	2.47	0.68
36:BO:54:GLY:HA2	54:B7:12:LYS:HD3	1.76	0.68
24:BA:242:G:H5''	54:B7:4:MET:CE	2.23	0.68
54:B7:60:LEU:HD23	54:B7:61:LEU:N	2.09	0.68
24:BA:1092:C:N4	24:BA:1093:G:N3	2.41	0.68
24:BA:112:U:C4	24:BA:113:G:H1'	2.28	0.68
24:BA:1213:A:O2'	24:BA:1239:G:O4'	2.12	0.68
24:BA:1376:C:C2	24:BA:1377:G:C8	2.82	0.68
24:BA:1531:C:O2	24:BA:1532:C:H5	1.76	0.68
24:BA:1566:A:O2'	24:BA:1567:A:OP1	2.07	0.68
24:BA:1697:G:H5''	24:BA:1698:A:C5'	2.21	0.68
24:BA:1819:A:C3'	27:BD:178:PRO:HB2	2.22	0.68
24:BA:1835:G:C2'	24:BA:1836:C:H5'	2.23	0.68
24:BA:1906:G:H8	24:BA:1929:G:H2'	1.58	0.68
24:BA:193:U:H4'	24:BA:803:U:H4'	1.74	0.68
24:BA:1988:C:O2'	24:BA:1989:G:H5'	1.93	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1992:G:O4'	24:BA:1993:U:O4	2.12	0.68
24:BA:2019:A:N1	24:BA:2020:A:C4	2.62	0.68
24:BA:216:A:H2'	24:BA:217:G:H8	1.59	0.68
24:BA:2195:C:C2	24:BA:2196:C:C6	2.82	0.68
24:BA:2575:C:H5''	24:BA:2576:G:OP2	1.94	0.68
24:BA:2675:A:N1	24:BA:2732:G:N2	2.42	0.68
24:BA:2764:A:H5'	24:BA:2765:A:OP2	1.92	0.68
24:BA:447:A:N6	24:BA:473:G:H1'	2.08	0.68
24:BA:673:C:N4	24:BA:808:G:N1	2.41	0.68
24:BA:885:C:H42	24:BA:889:C:C1'	2.06	0.68
24:BA:947:G:O2'	24:BA:948:G:H5'	1.94	0.68
24:BA:962:G:H2'	24:BA:963:U:H6	1.51	0.68
24:BA:988:A:H4'	24:BA:1155:A:C2	2.25	0.68
27:BD:10:THR:O	27:BD:11:PRO:C	2.31	0.68
27:BD:132:PRO:HB3	27:BD:190:TYR:CE1	2.29	0.68
28:BE:137:HIS:CB	28:BE:138:PRO:HD2	2.23	0.68
28:BE:2:LYS:HD3	28:BE:83:ASP:CB	2.24	0.68
30:BG:17:PRO:C	30:BG:20:ILE:HB	2.14	0.68
31:BH:107:VAL:CG1	31:BH:152:ARG:HD2	2.23	0.68
31:BH:42:ARG:NE	31:BH:42:ARG:HA	2.09	0.68
31:BH:76:VAL:HG23	31:BH:77:LYS:H	1.57	0.68
34:BM:116:LEU:HD23	34:BM:116:LEU:C	2.14	0.68
35:BN:10:VAL:H	35:BN:17:ARG:CG	2.05	0.68
35:BN:97:ARG:HH11	35:BN:98:VAL:CA	2.05	0.68
36:BO:113:LYS:HZ2	36:BO:115:LEU:CD1	2.04	0.68
37:BP:85:LYS:C	37:BP:87:LYS:N	2.46	0.68
38:BQ:56:LYS:O	38:BQ:57:ARG:C	2.32	0.68
39:BR:31:SER:O	39:BR:35:ILE:HB	1.93	0.68
46:BY:128:VAL:HG23	46:BY:164:ALA:HB2	1.75	0.68
46:BY:7:ALA:HB2	46:BY:38:TYR:CD1	2.28	0.68
32:BK:69:LYS:HA	32:BK:138:ILE:HD13	1.74	0.68
24:BA:2134:A:H2'	24:BA:2135:A:C5'	2.22	0.68
26:BC:10:LEU:HD11	26:BC:32:LEU:CB	2.22	0.68
1:AA:346:G:O2'	1:AA:347:G:H5'	1.94	0.68
1:AA:992:U:O4	1:AA:1043:C:OP2	2.11	0.68
1:AA:1230:C:O2	15:AP:126:LYS:HD3	1.94	0.68
1:AA:366:C:H4'	1:AA:367:U:OP1	1.94	0.68
1:AA:742:G:H2'	1:AA:743:U:O4'	1.94	0.68
1:AA:80:G:C2'	1:AA:81:G:O4'	2.35	0.68
3:AB:76:A:H4'	24:BA:2507:C:C4'	2.24	0.68
3:AD:2:C:H2'	3:AD:3:C:C6	2.29	0.68
4:AE:118:LEU:HD11	4:AE:141:GLU:OE2	1.93	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:69:LEU:HB2	4:AE:159:PRO:HB2	1.76	0.68
4:AE:96:ARG:O	4:AE:98:LEU:HD22	1.94	0.68
5:AF:143:GLU:O	5:AF:145:GLY:N	2.27	0.68
5:AF:151:VAL:HG12	5:AF:152:ILE:N	2.09	0.68
5:AF:52:LEU:O	5:AF:53:ALA:HB2	1.93	0.68
7:AH:12:LEU:HD13	7:AH:30:ALA:HA	1.75	0.68
7:AH:135:THR:O	7:AH:139:LEU:HD12	1.94	0.68
7:AH:56:GLN:NE2	7:AH:56:GLN:H	1.92	0.68
8:AI:11:ASN:HD22	8:AI:86:ARG:HH22	1.41	0.68
12:AM:27:ALA:HB2	12:AM:85:LEU:HD11	1.76	0.68
14:AO:52:LEU:N	14:AO:52:LEU:HD23	2.09	0.68
14:AO:84:LEU:CG	14:AO:85:ILE:N	2.56	0.68
14:AO:85:ILE:HD11	14:AO:98:TYR:HB3	1.75	0.68
15:AP:67:GLU:HG3	15:AP:68:GLY:H	1.59	0.68
18:AS:82:GLN:O	18:AS:82:GLN:HG3	1.94	0.68
20:AU:74:ARG:CA	20:AU:79:LEU:HD11	2.23	0.68
49:B2:55:ARG:HA	49:B2:55:ARG:NH2	2.09	0.68
50:B3:68:ARG:CD	50:B3:68:ARG:N	2.55	0.68
50:B3:68:ARG:H	50:B3:68:ARG:HD3	1.56	0.68
55:B8:22:ARG:HB3	55:B8:24:TYR:CD1	2.28	0.68
24:BA:1051:G:H4'	24:BA:2752:C:O4'	1.94	0.68
24:BA:1174:A:N6	24:BA:1177:A:C2	2.61	0.68
24:BA:974:G:O2'	24:BA:1186:G:C4	2.45	0.68
24:BA:1206:G:C3'	24:BA:1206:G:C8	2.70	0.68
24:BA:1263:U:H5	24:BA:1265:A:H61	1.40	0.68
24:BA:128:C:C2	24:BA:129:C:C5	2.82	0.68
24:BA:1451:C:O4'	24:BA:1451:C:OP2	2.11	0.68
24:BA:1497:U:O4	24:BA:1577:C:C4'	2.42	0.68
24:BA:1291:C:H4'	24:BA:1535:U:O3'	1.93	0.68
24:BA:1670:C:P	24:BA:1671:U:OP2	2.51	0.68
24:BA:1700:A:O3'	24:BA:1700:A:OP1	2.11	0.68
24:BA:1711:C:H2'	24:BA:1712:C:C6	2.29	0.68
24:BA:2067:G:H5''	24:BA:2068:U:OP2	1.93	0.68
24:BA:2246:G:C2	24:BA:2247:A:C6	2.82	0.68
24:BA:230:U:H2'	24:BA:231:C:H6	1.59	0.68
24:BA:2436:G:C6	24:BA:2437:U:C4	2.82	0.68
24:BA:645:C:H5'	24:BA:646:A:OP1	1.94	0.68
24:BA:969:U:C2'	24:BA:970:C:H5'	2.23	0.68
24:BA:972:G:OP1	24:BA:974(A):C:H3'	1.94	0.68
24:BA:974(A):C:O2	24:BA:1186:G:N1	2.21	0.68
24:BA:997:G:C5'	41:BT:92:ARG:HD2	2.24	0.68
27:BD:107:ALA:N	27:BD:108:PRO:HD3	2.08	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:180:GLY:O	27:BD:270:ILE:HG21	1.93	0.68
27:BD:159:ALA:CA	27:BD:196:VAL:HG11	2.23	0.68
27:BD:201:HIS:HD2	27:BD:202:LYS:HE2	1.57	0.68
24:BA:764:A:OP1	27:BD:211:ARG:HA	1.94	0.68
30:BG:135:LEU:HD11	30:BG:137:GLU:C	2.14	0.68
31:BH:118:PRO:N	31:BH:121:ILE:HG21	2.08	0.68
33:BL:108:ALA:HB1	33:BL:123:ALA:HB3	1.76	0.68
34:BM:74:ARG:O	34:BM:75:TYR:C	2.31	0.68
35:BN:10:VAL:O	35:BN:11:ALA:CB	2.42	0.68
38:BQ:47:PHE:C	38:BQ:49:ASP:N	2.43	0.68
39:BR:92:TYR:OH	39:BR:93:LYS:HD3	1.94	0.68
45:BX:35:TYR:CE1	45:BX:65:ALA:O	2.47	0.68
46:BY:116:VAL:HG21	46:BY:145:GLU:HG2	1.76	0.68
47:BZ:51:VAL:HG11	47:BZ:79:VAL:HG21	1.74	0.68
1:AA:345:C:H5''	1:AA:346:G:OP1	1.93	0.68
1:AA:1211:U:O2'	1:AA:1213:A:H1'	1.92	0.68
1:AA:1285:A:H4'	1:AA:1286:A:C8	2.29	0.68
1:AA:1317:C:C2'	1:AA:1318:A:H5'	2.24	0.68
1:AA:1333:A:H2'	1:AA:1334:G:O4'	1.94	0.68
1:AA:137:C:C2	1:AA:227:G:N2	2.62	0.68
1:AA:834:C:O2'	1:AA:835:U:C5'	2.42	0.68
1:AA:900:A:C8	1:AA:901:A:N7	2.62	0.68
4:AE:144:ARG:HD3	4:AE:148:TYR:CZ	2.29	0.68
6:AG:148:VAL:HB	6:AG:181:MET:CE	2.17	0.68
8:AI:6:VAL:O	8:AI:6:VAL:CG1	2.42	0.68
10:AK:115:SER:O	10:AK:116:LYS:HD2	1.94	0.68
11:AL:15:ALA:HB1	11:AL:77:ILE:CG1	2.24	0.68
1:AA:1307:U:H5''	15:AP:101:GLN:HE21	1.59	0.68
15:AP:15:VAL:HG11	15:AP:39:ILE:CD1	2.24	0.68
15:AP:91:ARG:CB	15:AP:98:VAL:HG13	2.24	0.68
18:AS:20:VAL:HG13	18:AS:21:VAL:H	1.59	0.68
19:AT:75:ARG:NH1	19:AT:77:VAL:HG22	2.09	0.68
20:AU:38:GLU:O	20:AU:41:LYS:HB2	1.94	0.68
20:AU:43:PHE:C	20:AU:51:LEU:HD22	2.13	0.68
48:B1:45:ILE:CG1	48:B1:46:ARG:N	2.56	0.68
49:B2:29:ARG:HB2	49:B2:30:ARG:CZ	2.23	0.68
52:B5:52:VAL:HG12	52:B5:53:LYS:H	1.57	0.68
53:B6:43:THR:C	53:B6:45:ALA:N	2.47	0.68
54:B7:55:ALA:O	54:B7:58:ILE:HD12	1.93	0.68
24:BA:551:G:O5'	24:BA:1220:A:H2	1.77	0.68
24:BA:126:A:C2'	24:BA:127:A:H5'	2.24	0.68
24:BA:1321:A:H2'	24:BA:1321:A:N3	2.08	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2197:U:H2'	24:BA:2224:G:N2	2.08	0.68
24:BA:2360:A:OP2	24:BA:2360:A:C8	2.47	0.68
24:BA:2394:C:OP1	36:BO:57:THR:HG23	1.94	0.68
24:BA:2524:G:C5'	24:BA:2764:A:O2'	2.41	0.68
24:BA:2546:U:H4'	24:BA:2565:A:C2	2.28	0.68
24:BA:2589:A:H2'	24:BA:2590:A:H8	1.58	0.68
24:BA:2630:G:H5'	24:BA:2631:G:OP2	1.93	0.68
24:BA:2636:U:H4'	28:BE:79:ARG:NH2	2.07	0.68
24:BA:2767:C:C2	24:BA:2768:C:H5	2.12	0.68
24:BA:371:A:O2'	24:BA:372:G:P	2.51	0.68
24:BA:630:G:H1	24:BA:634:C:N4	1.91	0.68
24:BA:667:U:H2'	24:BA:668:G:O4'	1.93	0.68
24:BA:685:A:O2'	24:BA:686:G:OP2	2.10	0.68
25:BB:14:U:C2'	25:BB:107:U:H1'	2.24	0.68
27:BD:180:GLY:O	27:BD:181:GLU:OE1	2.12	0.68
29:BF:18:ARG:HG2	29:BF:18:ARG:NH1	2.08	0.68
29:BF:201:VAL:CG1	29:BF:205:ARG:HH21	2.07	0.68
29:BF:81:PRO:HG2	29:BF:82:ILE:CD1	2.24	0.68
30:BG:18:GLU:CD	30:BG:22:ARG:HH11	1.97	0.68
34:BM:104:LYS:HD3	34:BM:117:PHE:CE2	2.29	0.68
36:BO:121:LYS:H	36:BO:122:PRO:HD3	1.56	0.68
37:BP:116:GLU:OE1	37:BP:119:ARG:HD3	1.93	0.68
37:BP:16:ARG:HG3	37:BP:72:LYS:CD	2.22	0.68
42:BU:11:GLN:OE1	42:BU:22:VAL:HB	1.93	0.68
44:BW:7:VAL:HG21	48:B1:31:ARG:HH22	1.59	0.68
25:BB:76:G:H1'	46:BY:75:ASN:HD21	1.59	0.68
47:BZ:26:TYR:O	47:BZ:67:VAL:HG21	1.94	0.68
47:BZ:70:GLN:HB3	47:BZ:78:TYR:O	1.94	0.68
32:BK:83:ALA:CB	32:BK:88:ILE:HA	2.22	0.68
3:AD:16:U:H4'	3:AD:18:G:C5'	2.24	0.68
3:AD:19:G:C2	3:AD:57:G:H1'	2.28	0.68
26:BC:123:VAL:O	26:BC:127:LEU:HB2	1.94	0.68
1:AA:1390:U:H2'	1:AA:1391:U:C5	2.29	0.68
1:AA:1520:G:H2'	1:AA:1521:G:C8	2.29	0.68
1:AA:819:A:N6	1:AA:1529:G:N7	2.42	0.68
1:AA:191(D):U:H2'	1:AA:191(E):G:H8	1.59	0.68
1:AA:292:G:C5	1:AA:293:G:H1'	2.29	0.68
1:AA:425:G:N2	1:AA:426:G:H1'	2.08	0.68
1:AA:558:G:H2'	1:AA:559:A:C2	2.28	0.68
1:AA:570:G:H5'	1:AA:820:U:C1'	2.19	0.68
1:AA:792:A:N3	1:AA:794:A:C6	2.62	0.68
1:AA:968:A:H5''	1:AA:969:A:O5'	1.94	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:999:U:H2'	1:AA:1000:A:O4'	1.93	0.68
4:AE:21:ARG:N	4:AE:21:ARG:HE	1.90	0.68
6:AG:120:LEU:HB2	6:AG:125:HIS:CD2	2.29	0.68
6:AG:204:ILE:HD12	6:AG:204:ILE:H	1.58	0.68
7:AH:86:ALA:HB3	7:AH:130:ASN:HD21	1.58	0.68
13:AN:106:LYS:HG2	13:AN:107:SER:H	1.59	0.68
13:AN:19:ALA:CB	13:AN:80:VAL:HG21	2.24	0.68
19:AT:104:LYS:HD3	19:AT:105:ALA:H	1.58	0.68
19:AT:88:TYR:O	19:AT:92:ARG:CB	2.41	0.68
19:AT:91:ARG:O	19:AT:94:ASN:HB2	1.94	0.68
8:AI:49:ALA:CB	20:AU:80:PRO:HD3	2.23	0.68
22:AW:31:SER:OG	22:AW:32:ALA:N	2.26	0.68
23:AX:6:ARG:HB3	23:AX:15:ARG:NH2	2.09	0.68
48:B1:36:ILE:HG12	48:B1:37:GLY:H	1.59	0.68
49:B2:3:ARG:CZ	49:B2:3:ARG:HB3	2.24	0.68
49:B2:6:VAL:CG1	49:B2:56:VAL:HA	2.23	0.68
50:B3:44:THR:HG22	50:B3:45:GLY:N	2.09	0.68
51:B4:15:ARG:CG	51:B4:16:ARG:N	2.56	0.68
52:B5:31:PRO:C	52:B5:32:ASN:HD22	1.97	0.68
52:B5:22:ALA:HB1	52:B5:39:TYR:HE2	1.59	0.68
55:B8:25:VAL:CB	55:B8:34:GLN:HB2	2.22	0.68
24:BA:1102:C:H2'	24:BA:1102:C:O2	1.93	0.68
24:BA:1271:G:O5'	24:BA:1272:A:OP1	2.10	0.68
24:BA:1341:U:OP2	24:BA:1397:U:C4	2.47	0.68
24:BA:1398:C:O2'	24:BA:1399:C:H5'	1.94	0.68
24:BA:1591:G:C6	24:BA:1592:C:N4	2.62	0.68
24:BA:1815:A:O2'	24:BA:1816:G:H4'	1.94	0.68
24:BA:1916:A:OP1	24:BA:1916:A:H3'	1.94	0.68
24:BA:1949:G:H2'	24:BA:1950:G:O4'	1.94	0.68
24:BA:2025:C:H2'	24:BA:2026:C:H6	1.58	0.68
24:BA:2314:C:H2'	24:BA:2315:G:C8	2.26	0.68
24:BA:2516:G:H2'	24:BA:2517:C:C6	2.29	0.68
24:BA:2615:U:C2	51:B4:7:PRO:HA	2.29	0.68
24:BA:2524:G:H5'	24:BA:2764:A:HO2'	1.58	0.68
24:BA:2792:G:C2	24:BA:2793:G:C5	2.81	0.68
24:BA:307:G:C2	24:BA:309:G:H5''	2.29	0.68
24:BA:298:G:O2'	24:BA:322:A:N1	2.24	0.68
24:BA:375:C:H2'	24:BA:376:C:C6	2.28	0.68
24:BA:668:G:C5	24:BA:670:A:N7	2.61	0.68
24:BA:746:A:C6	24:BA:2611:U:H4'	2.28	0.68
24:BA:846:C:H1'	24:BA:847:U:C5	2.29	0.68
24:BA:865:C:N4	24:BA:909:A:N6	2.37	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:915:C:H2'	24:BA:916:G:H8	1.57	0.68
24:BA:972:G:C8	24:BA:973:A:H3'	2.29	0.68
25:BB:4:C:C2	25:BB:117:G:N2	2.61	0.68
27:BD:243:GLY:O	27:BD:244:ARG:CB	2.42	0.68
28:BE:176:ILE:CG2	28:BE:181:LEU:HB2	2.23	0.68
29:BF:110:LEU:HD23	29:BF:186:ILE:HD11	1.76	0.68
24:BA:450:G:H5'	29:BF:52:LYS:CD	2.23	0.68
30:BG:96:ARG:HA	30:BG:100:TRP:HZ3	1.59	0.68
30:BG:36:LYS:CB	30:BG:95:ARG:HD3	2.22	0.68
31:BH:43:VAL:HG12	31:BH:44:VAL:N	2.08	0.68
35:BN:6:THR:HA	35:BN:7:TYR:HD1	1.55	0.68
40:BS:50:ILE:HB	40:BS:66:VAL:HB	0.84	0.68
42:BU:61:VAL:O	42:BU:62:LEU:HD23	1.94	0.68
45:BX:99:CYS:O	45:BX:101:LYS:HD2	1.94	0.68
46:BY:118:GLN:NE2	46:BY:120:ILE:HG23	2.09	0.68
32:BK:77:LEU:HD11	32:BK:140:LEU:CB	2.24	0.68
24:BA:2125:G:H22	24:BA:2172:U:H5'	1.60	0.68
26:BC:104:LEU:CD1	26:BC:130:ILE:HD11	2.23	0.68
26:BC:211:SER:HB2	26:BC:213:TYR:CZ	2.29	0.68
33:BL:14:ALA:CB	33:BL:45:THR:HB	2.24	0.68
1:AA:511:C:O2'	1:AA:512:U:H6	1.75	0.68
1:AA:1054:C:N4	3:AB:34:G:HO2'	1.92	0.67
1:AA:1287:A:N6	1:AA:1371:G:O4'	2.27	0.67
1:AA:208:U:H4'	1:AA:209:U:OP1	1.92	0.67
1:AA:323:U:H5'	22:AW:23:ARG:HB2	1.77	0.67
1:AA:518:C:O2'	1:AA:519:C:P	2.51	0.67
1:AA:692:U:H1'	1:AA:694:A:N7	2.09	0.67
1:AA:735:C:O2'	20:AU:75:ILE:HD13	1.94	0.67
1:AA:760:G:H1	19:AT:105:ALA:C	1.97	0.67
1:AA:775:G:C2	1:AA:776:G:N7	2.62	0.67
1:AA:858:G:N2	1:AA:869:G:C3'	2.55	0.67
1:AA:863:U:O2	1:AA:863:U:C2'	2.40	0.67
1:AA:872:A:HO2'	1:AA:873:A:P	2.17	0.67
1:AA:873:A:OP1	1:AA:873:A:H8	1.76	0.67
1:AA:900:A:H2'	1:AA:901:A:C8	2.29	0.67
3:AC:51:U:H2'	3:AC:52:G:C8	2.29	0.67
4:AE:173:ALA:HA	4:AE:176:GLU:HG3	1.76	0.67
4:AE:82:ARG:CA	4:AE:92:TYR:HE1	2.07	0.67
5:AF:22:TRP:HB3	5:AF:59:ARG:CB	2.24	0.67
5:AF:35:GLU:HA	5:AF:38:ARG:HG3	1.76	0.67
6:AG:104:VAL:HA	6:AG:107:ARG:HB2	1.74	0.67
6:AG:26:CYS:HA	6:AG:31:CYS:CB	2.23	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:2:GLY:O	6:AG:4:TYR:N	2.25	0.67
6:AG:58:LEU:CD1	6:AG:59:ARG:HH11	2.07	0.67
7:AH:55:VAL:HG12	7:AH:56:GLN:N	2.08	0.67
9:AJ:74:GLU:HA	9:AJ:145:ALA:HB1	1.75	0.67
10:AK:109:ILE:CD1	10:AK:137:VAL:HB	2.23	0.67
10:AK:6:ILE:HG13	10:AK:85:ARG:CZ	2.24	0.67
10:AK:87:SER:CB	10:AK:93:VAL:H	2.08	0.67
12:AM:50:ILE:HB	16:AQ:41:ARG:HE	1.58	0.67
13:AN:42:TRP:CE3	13:AN:43:SER:HA	2.28	0.67
14:AO:32:PHE:HB3	14:AO:84:LEU:HD21	1.74	0.67
1:AA:953:G:HO2'	15:AP:125:ARG:HA	1.58	0.67
15:AP:23:TYR:CD2	15:AP:70:LEU:HD13	2.29	0.67
1:AA:1202:G:H1'	16:AQ:29:ARG:HD2	1.75	0.67
17:AR:34:LEU:HD12	17:AR:35:ARG:N	2.09	0.67
22:AW:40:ALA:HB2	22:AW:55:ILE:HG21	1.75	0.67
50:B3:59:PHE:HD1	50:B3:60:GLN:HG2	1.60	0.67
52:B5:25:LYS:O	52:B5:26:ASN:ND2	2.27	0.67
24:BA:974:G:N3	24:BA:1186:G:N7	2.42	0.67
24:BA:1270:C:H5''	24:BA:1271:G:H5''	1.74	0.67
24:BA:1335:U:O2'	24:BA:1336:A:H5'	1.93	0.67
24:BA:1545(A):A:O5'	24:BA:1545(A):A:H8	1.75	0.67
24:BA:1669:A:C2	24:BA:1994:C:H1'	2.29	0.67
24:BA:1793:C:H42	24:BA:1825:A:N6	1.91	0.67
24:BA:1832:C:C4	24:BA:1833:U:C5	2.82	0.67
24:BA:2329:G:H2'	24:BA:2330:G:H8	1.58	0.67
24:BA:2532:G:N2	24:BA:2662:A:N1	2.41	0.67
24:BA:2872:G:N2	24:BA:2873:A:N1	2.42	0.67
24:BA:5:A:O2'	34:BM:134:ARG:NH1	2.26	0.67
24:BA:721:C:C2	24:BA:722:A:C8	2.82	0.67
24:BA:728:G:H1'	24:BA:729:G:C8	2.29	0.67
24:BA:848:G:H21	24:BA:933:A:C1'	2.07	0.67
25:BB:89:G:H2'	25:BB:89(A):A:N7	2.09	0.67
27:BD:210:GLY:N	27:BD:213:ARG:HE	1.92	0.67
27:BD:246:PRO:HG2	27:BD:250:TRP:CD1	2.29	0.67
24:BA:2227:A:O4'	27:BD:262:ARG:HD2	1.94	0.67
27:BD:44:ASN:HB2	27:BD:217:ARG:NH2	2.00	0.67
27:BD:59:LYS:HD2	27:BD:60:ARG:N	2.09	0.67
28:BE:105:THR:HG1	28:BE:106:GLY:H	1.42	0.67
28:BE:128:SER:C	28:BE:130:GLY:N	2.46	0.67
30:BG:153:ARG:HD2	30:BG:154:GLY:N	2.09	0.67
30:BG:37:VAL:HG13	30:BG:159:VAL:HA	1.77	0.67
31:BH:69:ARG:HG3	31:BH:69:ARG:HH21	1.59	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1137:G:H4'	34:BM:105:GLY:HA2	1.75	0.67
24:BA:558:G:H5''	34:BM:109:LYS:HD3	1.76	0.67
34:BM:13:TRP:O	34:BM:14:VAL:HG22	1.93	0.67
34:BM:17:ASP:HB3	34:BM:21:LYS:HE3	1.76	0.67
34:BM:37:LYS:CE	34:BM:43:THR:HA	2.24	0.67
34:BM:7:LYS:HZ2	34:BM:10:GLU:N	1.91	0.67
36:BO:114:ILE:HG21	36:BO:134:ALA:CB	2.24	0.67
37:BP:132:VAL:HG12	37:BP:133:ARG:NH2	2.09	0.67
38:BQ:113:LEU:HD13	38:BQ:114:VAL:H	1.58	0.67
38:BQ:37:THR:H	38:BQ:40:LYS:HD2	1.58	0.67
38:BQ:3:HIS:ND1	38:BQ:4:LEU:N	2.42	0.67
39:BR:11:LYS:HB3	39:BR:15:ARG:HH22	1.58	0.67
41:BT:54:LYS:HE2	41:BT:54:LYS:N	2.09	0.67
24:BA:1225:C:O5'	42:BU:87:HIS:HE1	1.77	0.67
43:BV:33:ARG:HE	43:BV:33:ARG:CA	2.04	0.67
44:BW:43:VAL:HG11	44:BW:51:VAL:HG22	1.75	0.67
44:BW:7:VAL:HG22	48:B1:31:ARG:NH1	2.09	0.67
45:BX:14:LEU:O	45:BX:20:TYR:HA	1.95	0.67
32:BK:57:ARG:HG2	32:BK:61:ARG:HH21	1.59	0.67
26:BC:193:ILE:O	26:BC:197:GLU:HG3	1.94	0.67
1:AA:617:G:H4'	18:AS:44:THR:OG1	1.94	0.67
3:AC:44:G:N2	3:AC:45:U:H1'	2.09	0.67
24:BA:1886:C:C2	24:BA:1887:C:C5	2.82	0.67
1:AA:1053:G:C5'	1:AA:1054:C:H5'	2.20	0.67
1:AA:1407:C:H2'	1:AA:1408:A:C5'	2.24	0.67
1:AA:197:A:H62	1:AA:221:C:H5'	1.59	0.67
1:AA:403:C:O3'	6:AG:122:ARG:HD2	1.93	0.67
1:AA:608:A:H2'	1:AA:608:A:N3	2.08	0.67
1:AA:668:G:HO2'	17:AR:46:HIS:CE1	2.10	0.67
3:AB:74:C:C5	24:BA:2556:C:C1'	2.78	0.67
5:AF:118:GLN:O	5:AF:121:ALA:HB3	1.94	0.67
5:AF:70:VAL:HG12	5:AF:71:ALA:H	1.59	0.67
7:AH:79:GLU:CB	7:AH:91:LEU:O	2.42	0.67
8:AI:17:SER:O	8:AI:20:ALA:HB3	1.95	0.67
9:AJ:69:VAL:CB	9:AJ:104:LEU:HD11	2.25	0.67
10:AK:45:ILE:HB	10:AK:61:VAL:HG11	1.75	0.67
1:AA:1231:G:P	11:AL:127:LYS:HE2	2.34	0.67
12:AM:65:LEU:HD13	16:AQ:36:PHE:CE2	2.29	0.67
12:AM:42:THR:HG23	12:AM:68:HIS:HA	1.76	0.67
13:AN:104:GLN:NE2	13:AN:106:LYS:H	1.91	0.67
14:AO:53:ARG:HB3	14:AO:69:TYR:HE1	1.58	0.67
19:AT:35:VAL:CG1	19:AT:36:ILE:N	2.58	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AW:88:VAL:HG12	22:AW:92:LEU:HD11	1.76	0.67
24:BA:1033:U:H5'	55:B8:16:VAL:CG2	2.23	0.67
24:BA:1023:U:C4	24:BA:1024:G:H1'	2.29	0.67
24:BA:1131:G:C1'	34:BM:82:LEU:HD11	2.24	0.67
24:BA:1208:C:N4	24:BA:1209:G:O6	2.28	0.67
24:BA:1225:C:O5'	42:BU:87:HIS:CE1	2.47	0.67
24:BA:1357:U:H2'	24:BA:1358:G:O4'	1.95	0.67
24:BA:1473:G:H2'	24:BA:1474:C:O4'	1.94	0.67
24:BA:1332:G:N7	24:BA:1609:A:N6	2.42	0.67
24:BA:740:U:H1'	24:BA:1784:A:C8	2.29	0.67
24:BA:1800:C:O2'	24:BA:1802:A:O4'	2.12	0.67
24:BA:1818:U:O2	24:BA:1818:U:H2'	1.94	0.67
24:BA:2089:U:H2'	24:BA:2090:G:C8	2.26	0.67
24:BA:2218:G:H4'	27:BD:186:HIS:NE2	2.09	0.67
24:BA:2411:A:H2'	24:BA:2412:A:C8	2.30	0.67
24:BA:257:A:O5'	24:BA:257:A:H8	1.77	0.67
24:BA:2687:U:C2	24:BA:2688:U:C6	2.82	0.67
24:BA:270(P):C:H5'	32:BK:45:LYS:CG	2.21	0.67
24:BA:270(Q):C:H2'	24:BA:270(R):G:H8	1.59	0.67
24:BA:2740:A:N6	24:BA:2764:A:C1'	2.57	0.67
24:BA:404:C:H4'	24:BA:406:G:C8	2.29	0.67
24:BA:417:C:H2'	24:BA:418:G:O4'	1.95	0.67
24:BA:572:A:H2	24:BA:2033:A:C2	2.13	0.67
24:BA:618:G:C8	24:BA:618(A):C:C5	2.81	0.67
24:BA:638:G:H2'	24:BA:639:U:C5'	2.24	0.67
24:BA:914:C:C6	24:BA:914:C:C3'	2.72	0.67
24:BA:988:A:O2'	24:BA:1157:G:H5'	1.94	0.67
24:BA:2210:G:N7	27:BD:150:LYS:HA	2.10	0.67
27:BD:224:ALA:H	27:BD:233:HIS:CE1	2.12	0.67
27:BD:23:GLU:HB3	27:BD:204:ILE:HG13	1.76	0.67
28:BE:102:VAL:O	28:BE:169:ASN:ND2	2.27	0.67
30:BG:135:LEU:HD21	30:BG:137:GLU:O	1.93	0.67
30:BG:139:LEU:CD1	30:BG:142:PRO:HB3	2.25	0.67
30:BG:181:ARG:NH2	30:BG:181:ARG:H	1.92	0.67
30:BG:20:ILE:HD12	30:BG:28:VAL:HG13	1.74	0.67
35:BN:26:LYS:HG3	35:BN:27:GLY:N	2.08	0.67
35:BN:62:VAL:HB	35:BN:82:ASN:O	1.94	0.67
39:BR:24:LEU:HG	39:BR:40:ILE:O	1.94	0.67
41:BT:104:GLN:O	41:BT:108:GLU:OE2	2.12	0.67
41:BT:98:LEU:HD12	41:BT:105:VAL:CG2	2.19	0.67
42:BU:61:VAL:CG1	42:BU:62:LEU:N	2.56	0.67
46:BY:152:ALA:CB	46:BY:168:GLU:HA	2.22	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:177:PRO:CG	46:BY:178:GLU:H	2.07	0.67
26:BC:22:ILE:CD1	26:BC:226:PRO:HA	2.24	0.67
24:BA:275:G:O5'	24:BA:275:G:H8	1.77	0.67
3:AC:44:G:N1	3:AC:45:U:O2	2.27	0.67
1:AA:1308:U:H3'	15:AP:99:ARG:NH2	2.08	0.67
1:AA:1452:C:O4'	1:AA:1453:G:N2	2.27	0.67
1:AA:1470:G:O2'	1:AA:1471:G:H5'	1.95	0.67
1:AA:286:G:C5	1:AA:287:U:C5	2.83	0.67
1:AA:331:G:OP1	1:AA:332:G:C8	2.48	0.67
1:AA:454:C:H3'	1:AA:455:C:C5	2.29	0.67
1:AA:515:G:O6	1:AA:533:A:N7	2.27	0.67
1:AA:609:A:C4	1:AA:610:G:C8	2.82	0.67
1:AA:829:G:O2'	4:AE:26:PRO:CG	2.43	0.67
4:AE:47:THR:HG23	4:AE:51:LEU:HD21	1.76	0.67
6:AG:50:ARG:HG2	6:AG:51:PRO:CD	2.17	0.67
7:AH:140:ARG:NH1	7:AH:140:ARG:HB3	2.10	0.67
9:AJ:38:LEU:HA	9:AJ:41:ARG:HG3	1.76	0.67
1:AA:826:C:H5'	10:AK:12:ARG:HE	1.59	0.67
10:AK:13:ILE:CG2	10:AK:14:ARG:N	2.54	0.67
10:AK:89:PRO:HB3	10:AK:92:ARG:NH2	2.09	0.67
15:AP:3:ARG:NH1	30:BG:113:ARG:HG2	2.09	0.67
15:AP:14:ARG:HA	15:AP:45:VAL:H	1.60	0.67
15:AP:3:ARG:CG	15:AP:7:VAL:HA	2.24	0.67
17:AR:25:THR:O	17:AR:29:VAL:HG23	1.94	0.67
19:AT:29:HIS:CE1	19:AT:31:LEU:H	2.12	0.67
21:AV:36:ARG:HA	21:AV:71:LEU:CD1	2.23	0.67
22:AW:37:SER:O	22:AW:40:ALA:HB3	1.95	0.67
53:B6:31:LEU:O	53:B6:35:ARG:HG3	1.95	0.67
36:BO:45:LEU:HD22	54:B7:59:LYS:HD2	1.74	0.67
24:BA:1250:G:O2'	24:BA:1251:C:P	2.52	0.67
24:BA:1279:G:H2'	24:BA:1280:G:C8	2.29	0.67
24:BA:1354:A:H2'	24:BA:1355:G:H5'	1.75	0.67
24:BA:1700:A:H8	24:BA:1701:A:C8	2.12	0.67
24:BA:1858:G:N7	24:BA:1883:G:N1	2.42	0.67
24:BA:2031:A:H62	24:BA:2498:C:C1'	2.08	0.67
24:BA:2041:U:C2	24:BA:2042:A:C8	2.82	0.67
24:BA:2416:C:O2'	24:BA:2417:C:H5''	1.94	0.67
24:BA:2533:A:H2'	24:BA:2534:A:H8	1.59	0.67
24:BA:2578:G:N2	24:BA:2579:C:C2	2.62	0.67
24:BA:2776:A:C2	24:BA:2778:A:H2'	2.29	0.67
24:BA:775:G:H2'	24:BA:794:G:C8	2.28	0.67
24:BA:824:A:H3'	24:BA:825:C:C5	2.29	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:832:G:OP1	36:BO:36:LYS:NZ	2.28	0.67
24:BA:851:U:O2'	49:B2:46:ASN:N	2.27	0.67
24:BA:917:A:C8	24:BA:918:A:C5'	2.78	0.67
24:BA:988:A:C3'	49:B2:10:LYS:NZ	2.57	0.67
25:BB:78:A:O2'	25:BB:79:C:H5'	1.94	0.67
27:BD:169:GLU:CG	27:BD:184:LYS:HZ3	2.08	0.67
29:BF:103:LYS:O	29:BF:106:ARG:HG2	1.94	0.67
29:BF:70:THR:C	29:BF:72:ARG:N	2.41	0.67
30:BG:116:ASP:O	30:BG:118:ARG:N	2.27	0.67
30:BG:9:ARG:HG2	30:BG:13:GLU:OE1	1.95	0.67
31:BH:103:LEU:C	31:BH:105:LEU:HG	2.14	0.67
32:BK:31:LEU:HD13	32:BK:36:ALA:C	2.14	0.67
34:BM:95:PRO:O	34:BM:98:VAL:HG23	1.94	0.67
37:BP:66:ILE:CG2	37:BP:67:ARG:N	2.40	0.67
24:BA:2495:G:O3'	37:BP:83:MET:SD	2.52	0.67
40:BS:72:VAL:HB	40:BS:74:ARG:CZ	2.23	0.67
41:BT:111:GLU:HA	41:BT:114:LYS:HE3	1.74	0.67
43:BV:63:ASP:O	43:BV:64:MET:O	2.13	0.67
46:BY:42:VAL:HB	46:BY:43:GLU:CD	2.14	0.67
46:BY:27:VAL:HG21	46:BY:85:HIS:CE1	2.27	0.67
47:BZ:27:GLU:HB2	47:BZ:69:PHE:CE1	2.29	0.67
1:AA:339:C:H2'	1:AA:340:U:C6	2.28	0.67
2:A1:43:U:H2'	2:A1:44:U:C6	2.29	0.67
33:BL:14:ALA:O	33:BL:49:GLY:HA3	1.94	0.67
1:AA:1239:A:H1'	1:AA:1241:G:N9	2.08	0.67
1:AA:125:U:H2'	1:AA:126:G:C8	2.28	0.67
1:AA:1283:G:C2'	1:AA:1284:C:H5'	2.25	0.67
1:AA:1305:G:H2'	1:AA:1331:G:H22	1.58	0.67
1:AA:251:G:H22	1:AA:272:C:H42	1.43	0.67
1:AA:112:G:H21	1:AA:354:G:H5'	1.60	0.67
5:AF:182:ILE:CA	5:AF:204:LEU:HG	2.21	0.67
6:AG:14:ARG:CD	6:AG:14:ARG:C	2.62	0.67
6:AG:61:LYS:CG	6:AG:207:TYR:HE1	2.06	0.67
7:AH:105:VAL:HG12	7:AH:106:PRO:N	2.09	0.67
7:AH:35:GLY:HA3	7:AH:41:VAL:HG13	1.75	0.67
8:AI:76:ALA:O	8:AI:79:LEU:HG	1.95	0.67
8:AI:81:ILE:O	8:AI:83:ASP:N	2.27	0.67
9:AJ:72:ARG:CB	9:AJ:72:ARG:HH11	2.07	0.67
10:AK:61:VAL:CG1	10:AK:62:TYR:N	2.56	0.67
11:AL:50:LEU:HD22	11:AL:51:ARG:NH1	2.10	0.67
11:AL:82:ALA:O	11:AL:85:LEU:HB3	1.94	0.67
14:AO:84:LEU:N	14:AO:104:VAL:HG11	2.10	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AO:50:SER:O	14:AO:51:ALA:HB2	1.95	0.67
15:AP:59:TYR:CD2	15:AP:60:VAL:HG23	2.29	0.67
1:AA:1360:A:N7	16:AQ:17:LYS:HD3	2.09	0.67
16:AQ:35:ARG:O	16:AQ:37:PHE:N	2.28	0.67
20:AU:55:ARG:HH11	20:AU:55:ARG:CB	2.06	0.67
49:B2:6:VAL:CG2	49:B2:35:ARG:HG3	2.13	0.67
49:B2:6:VAL:HG13	49:B2:56:VAL:HA	1.77	0.67
24:BA:1024:G:C6	24:BA:1025:G:C8	2.82	0.67
24:BA:1081:U:O4	24:BA:1086:A:H2	1.77	0.67
24:BA:1023:U:H5'	24:BA:1123:C:OP1	1.94	0.67
24:BA:1951:U:H2'	24:BA:1953:A:O5'	1.95	0.67
24:BA:1935:G:H2'	24:BA:1962:C:C4	2.28	0.67
24:BA:2015:A:H8	24:BA:2016:U:C6	2.12	0.67
24:BA:2018:G:H2'	24:BA:2019:A:O4'	1.94	0.67
24:BA:2227:A:H5''	27:BD:260:ARG:CD	2.24	0.67
24:BA:241:A:O2'	24:BA:242:G:H4'	1.95	0.67
24:BA:2484:G:H2'	24:BA:2485:G:H5'	1.74	0.67
24:BA:2561:A:H2'	24:BA:2562:U:O4'	1.93	0.67
24:BA:2581:G:C2	24:BA:2610:C:C6	2.82	0.67
24:BA:2746:U:C5'	31:BH:139:GLN:HA	2.24	0.67
24:BA:2748:A:N7	24:BA:2749:A:C6	2.63	0.67
24:BA:311:A:H62	24:BA:329:G:H5'	1.58	0.67
24:BA:482:A:N7	24:BA:506:G:N1	2.42	0.67
24:BA:543:C:H2'	24:BA:544:C:C5	2.30	0.67
24:BA:653:A:H3'	24:BA:654:A:O3'	1.94	0.67
24:BA:659:C:O2'	24:BA:660:G:H5'	1.93	0.67
24:BA:72:U:C2'	24:BA:73:A:OP1	2.42	0.67
24:BA:792:G:N7	24:BA:2440:C:H1'	2.10	0.67
24:BA:945:A:H2'	24:BA:946:G:O5'	1.94	0.67
27:BD:181:GLU:HA	27:BD:270:ILE:CD1	2.25	0.67
24:BA:675:A:C4'	29:BF:67:GLN:HE22	1.97	0.67
24:BA:1257:C:O2'	29:BF:83:PHE:HB2	1.95	0.67
30:BG:135:LEU:CD1	30:BG:137:GLU:H	2.08	0.67
24:BA:2314:C:H5'	30:BG:38:VAL:HG21	1.76	0.67
31:BH:25:LYS:HD3	31:BH:27:LYS:HD2	1.77	0.67
31:BH:87:LEU:HD21	31:BH:162:ILE:HG13	1.76	0.67
32:BK:25:TYR:O	32:BK:29:TYR:HB2	1.95	0.67
33:BL:109:LYS:O	33:BL:112:MET:HB2	1.94	0.67
33:BL:10:LEU:HD11	33:BL:41:PHE:CZ	2.28	0.67
34:BM:67:LEU:N	34:BM:87:LEU:HD21	2.09	0.67
35:BN:11:ALA:CB	35:BN:97:ARG:NH1	2.55	0.67
36:BO:114:ILE:HG21	36:BO:122:PRO:HA	1.75	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BO:19:VAL:O	36:BO:19:VAL:HG23	1.94	0.67
41:BT:16:LYS:HG2	41:BT:20:LEU:HD21	1.75	0.67
24:BA:2020:A:OP2	41:BT:27:LEU:CD1	2.42	0.67
42:BU:15:GLU:CD	42:BU:16:PRO:HD2	2.15	0.67
45:BX:5:MET:SD	45:BX:33:LYS:HG2	2.34	0.67
45:BX:74:PRO:HB2	45:BX:101:LYS:N	2.10	0.67
45:BX:82:PRO:HD2	45:BX:96:ILE:HA	1.76	0.67
46:BY:109:ALA:C	46:BY:113:ALA:HB2	2.15	0.67
26:BC:43:VAL:HG13	26:BC:213:TYR:O	1.95	0.67
26:BC:68:LEU:HB3	26:BC:157:LYS:O	1.94	0.67
1:AA:1047:G:H5'	16:AQ:4:LYS:CD	2.24	0.67
1:AA:1349:A:H2'	1:AA:1350:A:C8	2.29	0.67
1:AA:1429:C:C2	1:AA:1430:C:C5	2.82	0.67
1:AA:1476:G:H2'	1:AA:1477:C:C6	2.29	0.67
1:AA:315:A:N1	1:AA:330:C:C6	2.62	0.67
1:AA:572:A:O5'	1:AA:573:A:OP2	2.11	0.67
1:AA:791:G:H2'	1:AA:792:A:C8	2.30	0.67
1:AA:834:C:N4	1:AA:853:G:C6	2.63	0.67
1:AA:959:A:C2'	1:AA:960:U:H4'	2.25	0.67
1:AA:989:C:H2'	1:AA:990:C:H5'	1.77	0.67
3:AB:52:G:OP1	24:BA:2471:C:O3'	2.12	0.67
4:AE:141:GLU:CD	4:AE:142:LEU:N	2.47	0.67
6:AG:113:SER:HB3	6:AG:116:GLN:HG3	1.75	0.67
7:AH:109:ILE:HG23	7:AH:110:LEU:N	2.10	0.67
10:AK:103:VAL:CB	10:AK:108:GLY:HA3	2.24	0.67
10:AK:109:ILE:HG13	10:AK:111:ILE:HD11	1.77	0.67
10:AK:36:LEU:O	10:AK:39:LEU:HB3	1.94	0.67
10:AK:77:GLU:OE2	10:AK:78:GLN:N	2.28	0.67
11:AL:77:ILE:O	11:AL:81:ILE:HG13	1.95	0.67
1:AA:563:A:H3'	14:AO:15:ARG:NH1	2.09	0.67
17:AR:16:ALA:CB	17:AR:21:ASP:HB3	2.17	0.67
19:AT:57:VAL:HG23	19:AT:58:GLU:N	2.10	0.67
19:AT:59:ILE:HD11	19:AT:72:ARG:N	2.09	0.67
8:AI:60:PHE:CE2	20:AU:78:LEU:HD21	2.29	0.67
51:B4:51:TYR:C	51:B4:51:TYR:CD2	2.67	0.67
52:B5:17:LYS:HE3	52:B5:48:VAL:HG11	1.76	0.67
53:B6:9:ARG:O	53:B6:13:ALA:CB	2.43	0.67
54:B7:30:ARG:NH2	54:B7:41:ILE:O	2.27	0.67
55:B8:10:ILE:CD1	55:B8:32:HIS:HD2	2.07	0.67
24:BA:115:C:O2'	24:BA:116:C:H5'	1.95	0.67
24:BA:118:A:O2'	24:BA:178:G:H5'	1.94	0.67
24:BA:1373:A:H2'	24:BA:1374:G:C8	2.30	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1431:U:O2'	24:BA:1432:C:H5'	1.94	0.67
24:BA:171:G:H2'	24:BA:172:C:C5	2.29	0.67
24:BA:2226:C:C2	27:BD:262:ARG:CZ	2.76	0.67
24:BA:2667:C:C5	24:BA:2668:G:C8	2.82	0.67
24:BA:1456:G:H1	24:BA:2703:C:N4	1.91	0.67
24:BA:2809:A:C4'	24:BA:2811:G:N7	2.58	0.67
24:BA:1710:C:H1'	24:BA:2858:C:H42	1.60	0.67
24:BA:2789:C:C2'	24:BA:2893:G:H22	2.07	0.67
24:BA:38:A:H1'	29:BF:48:THR:HB	1.76	0.67
24:BA:455:C:OP1	24:BA:472:A:N1	2.27	0.67
24:BA:64:A:H5'	44:BW:73:ARG:HA	1.75	0.67
24:BA:894:C:H2'	24:BA:895:U:C6	2.29	0.67
24:BA:7:G:O2'	24:BA:8:A:H5'	1.93	0.67
28:BE:8:LYS:HB3	28:BE:24:THR:CB	2.23	0.67
29:BF:121:GLY:O	29:BF:191:ARG:HG3	1.93	0.67
29:BF:64:ILE:CG2	29:BF:78:ILE:HB	2.24	0.67
30:BG:151:ALA:O	30:BG:152:LEU:HD23	1.94	0.67
30:BG:77:ILE:HG13	30:BG:78:SER:N	2.10	0.67
30:BG:68:PRO:HG3	30:BG:90:LEU:HD21	1.76	0.67
31:BH:97:ARG:H	31:BH:104:GLU:HB2	1.57	0.67
31:BH:8:PRO:CA	31:BH:51:ARG:NH1	2.57	0.67
31:BH:65:HIS:O	31:BH:69:ARG:HG2	1.95	0.67
33:BL:77:LEU:O	33:BL:77:LEU:HD13	1.94	0.67
34:BM:103:VAL:HG22	34:BM:104:LYS:HD3	1.75	0.67
34:BM:87:LEU:HD23	34:BM:88:GLU:OE2	1.94	0.67
34:BM:7:LYS:HE3	34:BM:8:GLN:H	1.57	0.67
35:BN:59:LYS:CA	35:BN:86:ILE:HD12	2.20	0.67
35:BN:97:ARG:NH1	35:BN:98:VAL:N	2.42	0.67
38:BQ:26:LYS:HE2	38:BQ:70:LEU:HA	1.77	0.67
38:BQ:44:LEU:O	38:BQ:48:VAL:HG23	1.93	0.67
38:BQ:6:SER:OG	38:BQ:9:LYS:NZ	2.27	0.67
40:BS:70:VAL:HG21	40:BS:74:ARG:HD3	1.76	0.67
41:BT:79:PHE:O	41:BT:83:LEU:HD12	1.94	0.67
41:BT:84:LYS:HE2	41:BT:84:LYS:CA	2.25	0.67
43:BV:16:LYS:N	43:BV:16:LYS:HD3	2.05	0.67
43:BV:28:SER:CA	43:BV:70:TYR:HA	2.23	0.67
43:BV:82:LEU:H	43:BV:98:LYS:NZ	1.92	0.67
44:BW:30:VAL:O	44:BW:77:LYS:HB3	1.94	0.67
45:BX:29:GLU:OE1	45:BX:34:LYS:HD2	1.95	0.67
45:BX:39:VAL:O	45:BX:40:GLU:CB	2.42	0.67
45:BX:6:HIS:HD2	45:BX:67:LEU:HD11	1.60	0.67
46:BY:4:ARG:NH2	46:BY:88:PHE:HE1	1.93	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:B1:7:GLU:CA	48:B1:10:LYS:HG2	2.25	0.67
1:AA:1002:G:OP2	1:AA:1002:G:O4'	2.12	0.67
1:AA:1307:U:H5''	15:AP:101:GLN:NE2	2.09	0.67
1:AA:1367:C:OP1	11:AL:115:GLY:N	2.28	0.67
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.56	0.67
1:AA:1404:C:H1'	1:AA:1499:A:N1	2.09	0.67
1:AA:1518:A:O5'	1:AA:1518:A:H8	1.78	0.67
1:AA:300:A:H2'	1:AA:301:G:H5'	1.77	0.67
1:AA:373:A:N7	1:AA:482:A:N7	2.42	0.67
1:AA:748:C:H6	1:AA:748:C:O5'	1.76	0.67
1:AA:870:U:H5'	1:AA:871:U:OP1	1.94	0.67
3:AC:33:U:C2	3:AC:35:A:OP2	2.47	0.67
3:AC:75:C:O2	24:BA:2252:G:N2	2.28	0.67
4:AE:175:ARG:O	4:AE:176:GLU:C	2.33	0.67
4:AE:92:TYR:O	4:AE:152:PHE:HB2	1.94	0.67
5:AF:55:VAL:HG13	5:AF:68:VAL:HG22	1.77	0.67
6:AG:10:ARG:NH1	6:AG:14:ARG:HB2	2.10	0.67
6:AG:148:VAL:CG2	6:AG:162:LEU:HD21	2.24	0.67
6:AG:190:ASP:O	6:AG:193:ASP:OD1	2.12	0.67
1:AA:9:G:OP2	7:AH:121:LYS:HA	1.94	0.67
9:AJ:42:ILE:HG22	9:AJ:120:ILE:CD1	2.25	0.67
9:AJ:70:LYS:HA	9:AJ:100:ALA:CB	2.25	0.67
10:AK:51:VAL:HG21	10:AK:60:ARG:NH2	2.09	0.67
10:AK:88:LYS:N	10:AK:88:LYS:NZ	2.42	0.67
11:AL:83:ARG:O	11:AL:86:VAL:HB	1.94	0.67
11:AL:93:ARG:NH2	11:AL:97:LYS:HG2	2.10	0.67
1:AA:972:C:P	12:AM:57:LYS:HZ2	2.18	0.67
12:AM:7:LYS:O	12:AM:97:GLU:CB	2.40	0.67
13:AN:54:ARG:NH1	13:AN:54:ARG:HG3	2.09	0.67
14:AO:100:ILE:C	14:AO:101:VAL:HG22	2.14	0.67
14:AO:117:ARG:HH21	14:AO:124:LYS:CA	1.97	0.67
14:AO:36:VAL:HG23	14:AO:81:SER:C	2.15	0.67
15:AP:34:LEU:CD2	15:AP:39:ILE:HG13	2.25	0.67
16:AQ:12:ARG:O	16:AQ:14:PRO:N	2.27	0.67
24:BA:1263:U:H5''	51:B4:10:LYS:HZ3	1.59	0.67
24:BA:1019:U:H5''	24:BA:1019:U:H6	1.60	0.67
24:BA:84:A:H1'	24:BA:103:A:N6	2.10	0.67
24:BA:1066:U:H1'	24:BA:1069:A:OP2	1.95	0.67
24:BA:1352:U:H1'	24:BA:1570:A:C2	2.28	0.67
24:BA:1391:U:H2'	24:BA:1391:U:O2	1.95	0.67
24:BA:1421:G:C2	24:BA:1422:G:N7	2.63	0.67
24:BA:1439:A:C2'	24:BA:1440:G:H5'	2.24	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1647:G:C4'	24:BA:1648:C:OP1	2.40	0.67
24:BA:1687:G:N1	24:BA:1688:U:C5	2.62	0.67
24:BA:1688:U:N3	24:BA:1700:A:H5''	2.10	0.67
24:BA:1750:G:O2'	24:BA:2860:A:N1	2.27	0.67
24:BA:1872:A:H2'	24:BA:1878:G:C5'	2.13	0.67
24:BA:2320:A:C8	24:BA:2320:A:OP1	2.47	0.67
24:BA:2405:G:O2'	24:BA:2406:U:H5''	1.95	0.67
24:BA:26:G:H22	24:BA:27:G:N2	1.91	0.67
24:BA:2858:C:H5'	24:BA:2859:G:OP2	1.94	0.67
24:BA:665:C:C2	24:BA:666:G:N7	2.62	0.67
24:BA:66:C:H2'	24:BA:67:U:O5'	1.93	0.67
24:BA:586:A:N1	24:BA:810:U:H5'	2.10	0.67
24:BA:866:A:N6	24:BA:913:U:O2'	2.21	0.67
27:BD:174:ILE:N	27:BD:174:ILE:HD12	2.09	0.67
28:BE:36:ARG:O	28:BE:44:TYR:CD2	2.48	0.67
24:BA:320:A:H2'	29:BF:136:THR:HG21	1.77	0.67
29:BF:156:LEU:O	29:BF:176:LEU:HB3	1.94	0.67
24:BA:586:A:C4'	29:BF:89:VAL:HG21	2.25	0.67
30:BG:131:TYR:HE1	30:BG:133:LEU:O	1.77	0.67
30:BG:16:ARG:HB3	30:BG:17:PRO:CD	2.25	0.67
30:BG:40:ASN:ND2	30:BG:41:GLN:N	2.42	0.67
30:BG:43:LEU:HD11	30:BG:88:ILE:O	1.93	0.67
32:BK:31:LEU:HD11	32:BK:36:ALA:CB	2.21	0.67
24:BA:1080:C:C1'	33:BL:126:MET:HA	2.24	0.67
33:BL:91:PRO:HB3	33:BL:134:MET:O	1.95	0.67
33:BL:12:LEU:HD13	33:BL:23:VAL:HG21	1.76	0.67
35:BN:34:THR:C	35:BN:61:VAL:HG11	2.15	0.67
35:BN:98:VAL:O	35:BN:98:VAL:HG23	1.93	0.67
36:BO:16:ARG:CG	36:BO:19:VAL:HG22	2.24	0.67
36:BO:52:GLU:HG3	54:B7:52:LYS:HD3	1.76	0.67
24:BA:2876:G:P	40:BS:2:ASN:HB3	2.35	0.67
40:BS:32:TYR:HB3	40:BS:87:ASP:O	1.95	0.67
40:BS:70:VAL:CB	40:BS:74:ARG:HD3	2.25	0.67
42:BU:30:GLY:O	42:BU:31:ALA:O	2.13	0.67
42:BU:34:GLU:O	42:BU:35:LEU:HD12	1.94	0.67
42:BU:83:ARG:CD	42:BU:83:ARG:C	2.63	0.67
43:BV:34:ASN:HA	43:BV:37:ARG:NE	2.05	0.67
24:BA:1341:U:O2'	44:BW:56:THR:N	2.28	0.67
46:BY:51:ALA:C	46:BY:53:ILE:H	1.94	0.67
47:BZ:59:LEU:CD2	47:BZ:79:VAL:HG21	2.23	0.67
24:BA:2114:A:O5'	24:BA:2114:A:H8	1.78	0.67
26:BC:209:LEU:HD21	26:BC:212:VAL:HB	1.77	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1077:G:N2	1:AA:1080:A:OP2	2.27	0.67
1:AA:1113:C:C6	1:AA:1113:C:O5'	2.47	0.67
1:AA:1305:G:N2	1:AA:1331:G:H2'	2.09	0.67
1:AA:22:G:C2'	1:AA:23:C:H6	2.05	0.67
1:AA:55:A:H2'	1:AA:56:U:C5'	2.24	0.67
1:AA:642:A:N7	10:AK:115:SER:HA	2.08	0.67
1:AA:645:C:H2'	1:AA:646:U:H6	1.58	0.67
1:AA:665:A:C8	1:AA:733:A:C2	2.83	0.67
1:AA:894:G:C5	1:AA:895:G:N7	2.62	0.67
4:AE:112:VAL:HG22	4:AE:149:LEU:HD11	1.76	0.67
7:AH:12:LEU:HG	7:AH:129:ILE:HG12	1.77	0.67
9:AJ:15:ASP:H	9:AJ:20:ASP:N	1.92	0.67
9:AJ:94:ARG:HG3	9:AJ:94:ARG:HH11	1.59	0.67
9:AJ:94:ARG:HG3	9:AJ:94:ARG:NH1	2.09	0.67
11:AL:47:LEU:CD1	11:AL:51:ARG:HH22	2.05	0.67
13:AN:21:ILE:HG22	13:AN:30:VAL:HG22	1.76	0.67
16:AQ:24:CYS:SG	16:AQ:27:CYS:N	2.68	0.67
17:AR:16:ALA:HB1	17:AR:21:ASP:CB	2.17	0.67
24:BA:1224:G:H2'	42:BU:87:HIS:CD2	2.30	0.67
24:BA:1532:C:N4	24:BA:1540:G:N1	2.42	0.67
24:BA:1608:A:O2'	24:BA:1609:A:H5'	1.95	0.67
24:BA:1782:C:N4	24:BA:2587:A:H61	1.92	0.67
24:BA:1793:C:N4	24:BA:1825:A:N6	2.42	0.67
3:AB:12:U:H5'	24:BA:1915:U:H5'	1.75	0.67
24:BA:1942:C:H3'	24:BA:1942:C:P	2.35	0.67
24:BA:2207:C:H2'	24:BA:2208:U:C4'	2.23	0.67
24:BA:2437:U:H2'	24:BA:2438:U:C6	2.30	0.67
24:BA:2482:G:C2'	24:BA:2483:C:H5'	2.24	0.67
24:BA:1938:A:N3	24:BA:2590:A:H1'	2.09	0.67
24:BA:2592:G:C6	24:BA:2593:U:C4	2.83	0.67
24:BA:2711:A:OP1	24:BA:2712(A):A:P	2.53	0.67
24:BA:374:A:C3'	24:BA:375:C:H6	2.07	0.67
24:BA:388:G:N2	24:BA:390:A:C2	2.63	0.67
24:BA:371:A:C5'	24:BA:423:A:N7	2.54	0.67
24:BA:523:C:O2'	24:BA:524:U:H5'	1.95	0.67
24:BA:609:A:N1	24:BA:619:G:N3	2.42	0.67
24:BA:717:G:C2	24:BA:718:A:H1'	2.29	0.67
27:BD:181:GLU:HG2	27:BD:268:ARG:NE	2.10	0.67
28:BE:114:ALA:HB3	28:BE:118:LYS:CB	2.23	0.67
28:BE:151:TYR:CZ	28:BE:152:LYS:HG3	2.30	0.67
28:BE:33:VAL:CG1	28:BE:48:GLN:HA	2.24	0.67
28:BE:49:LEU:HD13	28:BE:76:ARG:HG2	1.75	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:673:C:C4'	29:BF:82:ILE:HD12	2.22	0.67
24:BA:2305:A:O3'	30:BG:136:ARG:HG2	1.95	0.67
31:BH:171:LEU:HA	31:BH:172:LYS:HZ2	1.60	0.67
24:BA:1076:C:O2'	33:BL:90:LYS:HD3	1.95	0.67
34:BM:103:VAL:CG2	34:BM:104:LYS:HD3	2.25	0.67
37:BP:124:LYS:O	37:BP:125:LEU:O	2.11	0.67
37:BP:16:ARG:CZ	37:BP:72:LYS:HA	2.24	0.67
37:BP:86:GLY:O	37:BP:87:LYS:HB3	1.94	0.67
40:BS:15:VAL:CG1	40:BS:81:PRO:HB3	2.24	0.67
42:BU:11:GLN:HE22	42:BU:24:LYS:CE	2.07	0.67
41:BT:94:ASN:HD22	42:BU:6:LYS:HZ1	1.42	0.67
32:BK:94:ALA:CB	32:BK:114:LEU:HD12	2.24	0.67
3:AD:58:A:C2'	3:AD:61:C:C5	2.77	0.67
24:BA:2168:G:N2	24:BA:2170:A:H3'	2.08	0.67
26:BC:60:GLY:O	26:BC:162:GLU:HG3	1.95	0.67
2:A1:20:G:O2'	2:A1:21:G:H5'	1.94	0.67
1:AA:1326:C:H2'	1:AA:1327:C:H6	1.60	0.67
1:AA:791:G:N2	1:AA:1498:U:P	2.64	0.67
1:AA:1528:U:H1'	1:AA:1529:G:H21	1.59	0.67
1:AA:255:G:O4'	19:AT:16:GLN:HB2	1.95	0.67
1:AA:394:G:H2'	1:AA:395:C:H6	1.58	0.67
1:AA:961:U:H2'	1:AA:962:C:O4'	1.95	0.67
3:AD:35:A:H2'	3:AD:36:A:O4'	1.94	0.67
4:AE:101:MET:HA	4:AE:108:ILE:CG1	2.25	0.67
4:AE:91:PRO:HB3	4:AE:152:PHE:CE1	2.30	0.67
1:AA:1347:G:C8	11:AL:107:ARG:HB3	2.28	0.67
14:AO:88:GLY:N	14:AO:98:TYR:HA	2.04	0.67
1:AA:581:G:H4'	17:AR:64:ARG:HH12	1.60	0.67
21:AV:30:LEU:HD12	21:AV:59:PRO:HA	1.75	0.67
21:AV:45:VAL:HG13	21:AV:64:GLU:HA	1.76	0.67
50:B3:57:GLU:HA	50:B3:61:ARG:NH1	2.10	0.67
50:B3:68:ARG:CB	50:B3:68:ARG:HH11	2.07	0.67
52:B5:17:LYS:HZ2	52:B5:50:ARG:HB2	1.58	0.67
54:B7:26:LYS:CA	54:B7:47:LYS:HG2	2.24	0.67
24:BA:1399:C:H2'	24:BA:1400:G:C8	2.29	0.67
24:BA:1568:G:O2'	24:BA:1569:A:OP2	2.11	0.67
24:BA:1647:G:OP2	24:BA:1647:G:H3'	1.95	0.67
24:BA:195:A:H2'	24:BA:198:C:H42	1.60	0.67
24:BA:2415:G:H5''	36:BO:61:ARG:CB	2.23	0.67
24:BA:2440:C:C5'	24:BA:2587:A:H4'	2.23	0.67
24:BA:2532:G:H2'	24:BA:2533:A:O4'	1.94	0.67
24:BA:330:A:C2	24:BA:1210:A:H2'	2.30	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:519:U:H6	24:BA:519:U:C5'	2.06	0.67
24:BA:531:C:H5'	24:BA:532:A:N3	2.10	0.67
24:BA:559:G:H2'	24:BA:560:C:O4'	1.95	0.67
24:BA:565:C:H2'	24:BA:565:C:O2	1.95	0.67
24:BA:774:A:O2'	24:BA:775:G:H8	1.77	0.67
24:BA:881:G:H22	24:BA:896:A:N6	1.91	0.67
24:BA:976:C:O2	24:BA:977:G:C8	2.48	0.67
24:BA:988:A:OP1	49:B2:10:LYS:NZ	2.24	0.67
27:BD:196:VAL:HG12	27:BD:198:ASN:H	1.59	0.67
28:BE:27:LEU:HD11	28:BE:30:PRO:CD	2.23	0.67
30:BG:8:LYS:HZ1	30:BG:103:LEU:HG	1.56	0.67
30:BG:118:ARG:HG3	30:BG:119:GLY:N	2.10	0.67
30:BG:39:ILE:HG13	30:BG:157:ILE:HG13	1.77	0.67
30:BG:11:TYR:O	30:BG:15:VAL:HG22	1.95	0.67
31:BH:83:TYR:H	31:BH:136:ILE:HA	1.58	0.67
32:BK:5:LEU:HA	32:BK:36:ALA:HB2	1.76	0.67
34:BM:38:HIS:C	34:BM:42:TRP:HE3	1.97	0.67
34:BM:16:ILE:O	34:BM:54:VAL:HG23	1.94	0.67
36:BO:72:PRO:O	36:BO:111:ARG:NE	2.27	0.67
36:BO:47:ASP:OD1	36:BO:48:PRO:HD3	1.94	0.67
39:BR:64:GLU:CD	39:BR:67:ARG:HB3	2.15	0.67
40:BS:11:GLU:O	40:BS:12:SER:C	2.33	0.67
46:BY:9:TYR:HB3	46:BY:14:LYS:HZ3	1.58	0.67
26:BC:213:TYR:N	26:BC:213:TYR:CD1	2.63	0.67
1:AA:1129:C:N4	1:AA:1139:G:C5	2.62	0.67
1:AA:1396:A:O4'	1:AA:1398:A:H1'	1.95	0.67
1:AA:192:U:H2'	1:AA:193:C:H6	1.59	0.67
1:AA:295:C:N4	1:AA:303:A:N1	2.43	0.67
1:AA:329:A:O2'	1:AA:330:C:H5'	1.95	0.67
1:AA:698:G:H2'	1:AA:699:C:H6	1.58	0.67
1:AA:900:A:H2'	1:AA:901:A:H8	1.59	0.67
3:AB:50:U:H2'	3:AB:51:U:C6	2.30	0.67
3:AC:57:G:H1'	30:BG:82:LEU:CD1	2.24	0.67
3:AC:76:A:H3'	3:AC:76:A:OP1	1.95	0.67
4:AE:49:GLU:N	4:AE:49:GLU:OE2	2.28	0.67
5:AF:57:ILE:HG22	5:AF:59:ARG:NH2	2.10	0.67
6:AG:141:ARG:HH11	6:AG:142:PRO:HD2	1.60	0.67
6:AG:26:CYS:O	6:AG:33:MET:CG	2.43	0.67
8:AI:53:ALA:HB2	8:AI:86:ARG:HD2	1.77	0.67
1:AA:1231:G:OP1	11:AL:126:SER:OG	2.13	0.67
13:AN:110:ASP:HB2	20:AU:88:LYS:HD2	1.75	0.67
14:AO:114:LYS:O	14:AO:117:ARG:NH1	2.27	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:AU:61:LYS:HD2	20:AU:64:ARG:NH2	2.06	0.67
1:AA:194:C:H5"	22:AW:65:LYS:HZ3	1.60	0.67
22:AW:90:GLN:O	22:AW:93:GLU:HB2	1.94	0.67
54:B7:16:ILE:HD11	54:B7:60:LEU:HD22	1.76	0.67
24:BA:1025:G:H1'	24:BA:1134:G:O4'	1.95	0.67
24:BA:810:U:OP1	24:BA:1253:A:C5	2.46	0.67
24:BA:171:G:H2'	24:BA:172:C:C6	2.30	0.67
24:BA:1785:A:H8	24:BA:1785:A:OP2	1.75	0.67
24:BA:530:G:H1	24:BA:2022:U:P	2.17	0.67
24:BA:229:A:H5'	24:BA:230:U:OP1	1.95	0.67
24:BA:2362:G:O2'	24:BA:2363:C:H5'	1.94	0.67
24:BA:2369:A:H61	24:BA:2382:G:N2	1.93	0.67
24:BA:2394:C:N4	24:BA:2422:A:N6	2.43	0.67
24:BA:295:G:H3'	24:BA:338:G:H1	1.59	0.67
24:BA:378:C:O2'	24:BA:379:G:H5'	1.95	0.67
24:BA:370:G:N3	24:BA:424:G:N7	2.43	0.67
24:BA:541:C:H2'	24:BA:542:C:H6	1.57	0.67
24:BA:729:G:N9	24:BA:730:C:H1'	2.10	0.67
24:BA:959:A:C6	24:BA:960:A:N6	2.63	0.67
27:BD:252:TRP:CE3	27:BD:252:TRP:HA	2.29	0.67
27:BD:61:LEU:HD22	27:BD:63:ARG:HH22	1.60	0.67
27:BD:29:PRO:HB2	27:BD:82:ILE:O	1.94	0.67
28:BE:12:THR:HA	28:BE:22:PRO:HD2	1.76	0.67
24:BA:2787:C:H5'	28:BE:64:LYS:HB2	1.75	0.67
29:BF:109:GLY:O	29:BF:110:LEU:C	2.31	0.67
29:BF:192:LEU:HD22	29:BF:193:VAL:N	2.10	0.67
29:BF:78:ILE:HD13	29:BF:79:GLY:H	1.60	0.67
30:BG:55:LYS:HG3	30:BG:148:MET:SD	2.35	0.67
30:BG:93:THR:O	30:BG:93:THR:HG22	1.95	0.67
34:BM:55:VAL:HG22	34:BM:125:GLY:O	1.93	0.67
35:BN:31:LYS:O	35:BN:32:TYR:CD1	2.47	0.67
36:BO:113:LYS:CB	36:BO:129:ALA:HB1	2.25	0.67
36:BO:117:GLU:HG2	36:BO:118:GLY:N	2.10	0.67
36:BO:7:ARG:N	36:BO:7:ARG:HD2	2.10	0.67
37:BP:130:LYS:NZ	37:BP:132:VAL:HG13	2.10	0.67
37:BP:6:ARG:HG2	37:BP:70:PRO:CB	2.25	0.67
39:BR:9:ARG:CD	39:BR:12:PHE:HE2	2.07	0.67
40:BS:20:PRO:HB3	40:BS:22:PHE:CE1	2.30	0.67
40:BS:93:ARG:NE	40:BS:93:ARG:N	2.43	0.67
41:BT:84:LYS:HA	41:BT:84:LYS:HE2	1.77	0.67
42:BU:13:ARG:O	42:BU:14:VAL:HG22	1.93	0.67
43:BV:17:VAL:O	43:BV:20:VAL:CG1	2.38	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:165:VAL:CG1	46:BY:166:SER:N	2.50	0.67
32:BK:132:PRO:HD2	32:BK:137:PRO:CA	2.22	0.67
6:AG:47:ARG:HB2	6:AG:47:ARG:HH11	1.60	0.67
24:BA:491:G:C2	24:BA:492:A:C4	2.83	0.67
10:AK:54:ASP:HB2	10:AK:56:LYS:HD3	1.77	0.67
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.60	0.67
2:A1:38:U:O2'	2:A1:39:U:O4'	2.13	0.67
1:AA:1138:G:C6	1:AA:1140:C:C6	2.83	0.67
1:AA:13:U:H5'	1:AA:14:U:OP2	1.95	0.67
1:AA:259:G:C2	1:AA:260:G:C4	2.83	0.67
1:AA:592:G:H2'	1:AA:593:G:H5'	1.76	0.67
4:AE:80:ILE:CD1	4:AE:212:GLN:HG2	2.25	0.67
4:AE:80:ILE:HD13	4:AE:211:ILE:CG2	2.25	0.67
5:AF:124:ILE:HG12	5:AF:130:VAL:HG22	1.75	0.67
5:AF:187:ALA:HB3	5:AF:198:VAL:HG22	1.76	0.67
6:AG:112:VAL:HG23	6:AG:161:ASN:HD21	1.60	0.67
6:AG:20:TYR:O	6:AG:26:CYS:SG	2.53	0.67
9:AJ:70:LYS:O	9:AJ:138:LYS:HE3	1.95	0.67
13:AN:63:LEU:HA	13:AN:66:LEU:HG	1.77	0.67
19:AT:21:VAL:HG22	19:AT:43:LEU:HA	1.76	0.67
19:AT:44:ALA:HA	19:AT:71:PHE:O	1.95	0.67
53:B6:26:GLY:O	53:B6:30:VAL:HG23	1.95	0.67
24:BA:1203:G:C5	24:BA:1240:U:N3	2.63	0.67
24:BA:1518:C:N4	24:BA:1519:G:C8	2.62	0.67
24:BA:1754:C:O2	24:BA:1755:A:C1'	2.38	0.67
24:BA:1859:A:H61	24:BA:1883:G:H2'	1.58	0.67
24:BA:2051:A:C1'	28:BE:141:ILE:HD11	2.25	0.67
24:BA:2320:A:OP2	24:BA:2320:A:H8	1.77	0.67
3:AB:52:G:C4'	24:BA:2471:C:C5'	2.72	0.67
24:BA:2550:G:C2	24:BA:2559:C:C2	2.83	0.67
24:BA:2623:G:N2	51:B4:22:HIS:CE1	2.52	0.67
24:BA:270:A:H2'	24:BA:270(A):A:C4'	2.25	0.67
24:BA:2742:C:H5''	55:B8:35:ARG:NH1	2.09	0.67
24:BA:401:A:N6	24:BA:423:A:C2	2.63	0.67
24:BA:27:G:N1	24:BA:512:G:C2'	2.56	0.67
24:BA:563:G:N2	41:BT:34:LYS:NZ	2.42	0.67
24:BA:751:A:O4'	43:BV:90:ARG:HD3	1.95	0.67
24:BA:864:G:H2'	24:BA:865:C:O4'	1.95	0.67
25:BB:32:C:H5''	25:BB:33:G:OP2	1.95	0.67
25:BB:3:C:H2'	25:BB:4:C:H6	1.60	0.67
25:BB:63:G:H2'	25:BB:64:C:C6	2.30	0.67
25:BB:13:A:H61	25:BB:69:G:C2'	2.07	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:75:G:H22	46:BY:87:ASP:CG	1.98	0.67
27:BD:154:LYS:O	27:BD:155:LEU:CB	2.42	0.67
27:BD:32:SER:O	27:BD:33:LEU:O	2.13	0.67
27:BD:45:ASN:OD1	27:BD:50:THR:HG23	1.94	0.67
27:BD:7:LYS:HG3	27:BD:27:THR:N	2.10	0.67
28:BE:147:PRO:CD	28:BE:148:GLY:H	2.04	0.67
29:BF:74:ARG:NH1	29:BF:75:HIS:CA	2.57	0.67
31:BH:137:ASP:HB3	31:BH:140:LYS:HG2	1.76	0.67
31:BH:9:ILE:HD11	31:BH:69:ARG:HH22	1.60	0.67
31:BH:26:VAL:HG12	31:BH:79:VAL:CG1	2.24	0.67
31:BH:87:LEU:H	31:BH:132:ARG:CB	2.08	0.67
35:BN:41:ALA:O	35:BN:56:ASP:HA	1.95	0.67
36:BO:96:THR:OG1	36:BO:102:ARG:HD3	1.95	0.67
38:BQ:5:LYS:NZ	38:BQ:6:SER:N	2.43	0.67
38:BQ:99:LYS:HG2	51:B4:43:HIS:CE1	2.29	0.67
41:BT:40:PHE:HD2	42:BU:78:LYS:HE2	1.60	0.67
41:BT:81:HIS:HB3	41:BT:117:GLN:NE2	2.09	0.67
42:BU:31:ALA:O	42:BU:33:VAL:N	2.28	0.67
43:BV:36:LEU:HD11	43:BV:47:VAL:CB	2.25	0.67
45:BX:36:ALA:HA	45:BX:64:GLU:HB2	1.77	0.67
45:BX:47:LYS:HD3	45:BX:49:VAL:CG2	2.19	0.67
47:BZ:40:GLN:HB3	47:BZ:45:PHE:CD1	2.30	0.67
47:BZ:37:LEU:HD21	47:BZ:60:PHE:HA	1.77	0.67
3:AD:20:U:C5	24:BA:2112:G:H1'	2.30	0.67
26:BC:49:ILE:HG13	26:BC:51:PRO:HD3	1.77	0.67
48:B1:2:ARG:CA	48:B1:5:LEU:HD13	2.23	0.67
46:BY:92:SER:O	46:BY:93:ASP:HB2	1.94	0.67
1:AA:1181:G:H2'	1:AA:1182:G:O4'	1.94	0.66
1:AA:1307:U:H6	1:AA:1307:U:O5'	1.77	0.66
1:AA:178:C:C2	1:AA:179:A:C8	2.84	0.66
1:AA:129(A):G:N2	1:AA:191(A):G:C8	2.63	0.66
1:AA:990:C:H2'	1:AA:991:U:C6	2.30	0.66
4:AE:83:MET:HB2	4:AE:234:PRO:HG3	1.75	0.66
8:AI:84:ASN:O	8:AI:86:ARG:N	2.28	0.66
1:AA:1228:C:H4'	15:AP:116:THR:CA	2.22	0.66
15:AP:48:LEU:HD11	15:AP:56:LEU:CD1	2.23	0.66
16:AQ:22:THR:O	16:AQ:23:ARG:HG2	1.94	0.66
17:AR:62:GLN:HA	17:AR:65:ARG:NH1	2.09	0.66
24:BA:2056:G:H21	51:B4:4:HIS:HD2	1.42	0.66
54:B7:6:THR:HG23	54:B7:9:GLY:HA3	1.75	0.66
24:BA:1205:U:H2'	24:BA:1206:G:N7	2.09	0.66
24:BA:1477:A:C3'	24:BA:1478:G:O4'	2.43	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1657:C:H2'	24:BA:1658:C:C6	2.26	0.66
24:BA:740:U:P	24:BA:1784:A:N1	2.68	0.66
24:BA:1794:U:C2	24:BA:1795:C:C5	2.83	0.66
24:BA:1832:C:C2'	24:BA:1833:U:H5'	2.25	0.66
24:BA:1931:U:H5	24:BA:1969:A:H62	1.41	0.66
24:BA:195:A:N6	24:BA:198:C:OP2	2.28	0.66
24:BA:2849:U:H3'	24:BA:2849:U:H6	1.58	0.66
24:BA:2868:A:O2'	24:BA:2869:G:H5'	1.94	0.66
24:BA:2893:G:OP2	24:BA:2893:G:H8	1.78	0.66
24:BA:61:G:H5'	48:B1:45:ILE:CD1	2.24	0.66
24:BA:663:G:H5'	36:BO:18:ARG:CB	2.20	0.66
24:BA:839:U:H2'	24:BA:840:C:H6	1.56	0.66
27:BD:133:LEU:O	27:BD:136:ILE:N	2.28	0.66
27:BD:208:LYS:NZ	27:BD:211:ARG:NH2	2.43	0.66
28:BE:154:LYS:HZ3	28:BE:156:MET:CE	2.08	0.66
28:BE:49:LEU:HD22	28:BE:76:ARG:O	1.95	0.66
28:BE:92:THR:C	28:BE:94:GLU:N	2.49	0.66
29:BF:122:LYS:CA	29:BF:122:LYS:HZ3	2.07	0.66
24:BA:321:G:OP2	29:BF:135:LYS:HE3	1.94	0.66
29:BF:184:TYR:N	29:BF:184:TYR:HD2	1.93	0.66
30:BG:56:ALA:O	30:BG:59:GLU:HG3	1.96	0.66
30:BG:60:LEU:CB	30:BG:66:GLN:O	2.41	0.66
31:BH:148:ILE:HG23	31:BH:162:ILE:CD1	2.26	0.66
33:BL:105:LEU:HD22	33:BL:124:ALA:CB	2.25	0.66
33:BL:12:LEU:CD2	33:BL:23:VAL:HG23	2.25	0.66
33:BL:66:THR:O	33:BL:67:PHE:CB	2.43	0.66
34:BM:23:LEU:HD23	34:BM:60:ILE:CG2	2.25	0.66
34:BM:55:VAL:HG21	34:BM:127:ASP:HA	1.76	0.66
36:BO:73:GLY:CA	36:BO:111:ARG:NH1	2.48	0.66
36:BO:73:GLY:HA2	36:BO:111:ARG:CZ	2.24	0.66
37:BP:94:VAL:CG2	37:BP:95:ALA:N	2.52	0.66
38:BQ:37:THR:O	38:BQ:40:LYS:HB2	1.95	0.66
39:BR:28:VAL:HA	39:BR:37:ALA:HB2	1.77	0.66
39:BR:29:PHE:O	39:BR:29:PHE:CD1	2.48	0.66
40:BS:113:LYS:O	40:BS:116:ALA:HB3	1.95	0.66
40:BS:29:ARG:C	40:BS:30:VAL:HG12	2.14	0.66
40:BS:54:ARG:C	40:BS:55:ASN:CG	2.54	0.66
40:BS:71:GLY:N	40:BS:74:ARG:NH1	2.43	0.66
42:BU:60:GLU:HG3	42:BU:100:ARG:O	1.95	0.66
43:BV:42:ARG:HG3	43:BV:43:GLY:N	2.09	0.66
45:BX:37:VAL:HG22	45:BX:39:VAL:HG23	1.77	0.66
46:BY:127:LYS:HZ3	46:BY:165:VAL:HB	1.59	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:10:ARG:CD	46:BY:36:LYS:HB2	2.25	0.66
32:BK:94:ALA:HA	32:BK:97:ILE:CG1	2.24	0.66
26:BC:62:VAL:HG21	26:BC:191:ALA:O	1.95	0.66
2:A1:51:U:H4'	2:A1:52:U:OP1	1.95	0.66
1:AA:1233:G:O2'	1:AA:1365:G:OP1	2.12	0.66
1:AA:1256:A:O3'	1:AA:1257:U:C4'	2.41	0.66
1:AA:173:U:H5''	1:AA:197:A:O2'	1.96	0.66
1:AA:51:A:O2'	1:AA:52:G:OP2	2.12	0.66
1:AA:592:G:C2'	1:AA:593:G:H5'	2.25	0.66
4:AE:219:VAL:CG1	4:AE:223:ILE:HD11	2.14	0.66
4:AE:61:LEU:HA	4:AE:64:ARG:CD	2.25	0.66
5:AF:94:LEU:O	5:AF:94:LEU:HD23	1.95	0.66
6:AG:147:ALA:CB	6:AG:181:MET:O	2.42	0.66
6:AG:61:LYS:CB	6:AG:203:VAL:HG13	2.24	0.66
7:AH:84:PHE:CZ	7:AH:133:TYR:CB	2.76	0.66
9:AJ:79:ARG:CD	9:AJ:84:ASN:HB3	2.25	0.66
10:AK:36:LEU:O	10:AK:39:LEU:CB	2.42	0.66
12:AM:90:LEU:H	12:AM:91:PRO:HD2	1.58	0.66
13:AN:66:LEU:CB	13:AN:70:LYS:HZ2	2.08	0.66
13:AN:78:GLN:OE1	13:AN:79:SER:N	2.27	0.66
14:AO:101:VAL:HG23	14:AO:104:VAL:CG2	2.25	0.66
16:AQ:52:GLN:C	16:AQ:53:LEU:HD23	2.16	0.66
8:AI:98:LEU:HG	20:AU:28:GLU:HG2	1.78	0.66
22:AW:12:ALA:O	22:AW:15:ARG:HG2	1.94	0.66
48:B1:38:GLN:N	48:B1:41:GLN:NE2	2.39	0.66
51:B4:48:GLU:N	51:B4:58:LEU:HG	2.10	0.66
24:BA:1198:U:H2'	24:BA:1199:U:H5	1.60	0.66
24:BA:1363:C:H2'	24:BA:1363:C:O2	1.95	0.66
24:BA:1500:G:H2'	24:BA:1501:C:C6	2.31	0.66
24:BA:1668:A:N7	24:BA:1674:G:C4	2.63	0.66
24:BA:1709:U:H6	24:BA:1709:U:H5'	1.61	0.66
24:BA:1363:C:O3'	24:BA:1809:A:C6	2.48	0.66
24:BA:1901:A:O2'	27:BD:244:ARG:NH1	2.27	0.66
24:BA:1919:A:O5'	24:BA:1919:A:C8	2.47	0.66
24:BA:1941:C:C2'	24:BA:1942:C:O5'	2.43	0.66
24:BA:2225:A:C5'	24:BA:2226:C:H6	2.08	0.66
24:BA:2280:G:C2	24:BA:2281:C:C5	2.84	0.66
24:BA:2286:A:C8	24:BA:2286:A:H3'	2.31	0.66
24:BA:2356:C:O2'	47:BZ:20:ARG:NE	2.27	0.66
24:BA:2602:A:C8	47:BZ:2:ALA:HB2	2.30	0.66
24:BA:2748:A:N7	24:BA:2749:A:N6	2.43	0.66
24:BA:2777:G:H3'	24:BA:2777:G:H8	1.59	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:106:C:H1'	24:BA:294:A:H4'	1.76	0.66
24:BA:566:U:C6	24:BA:567:A:N7	2.63	0.66
27:BD:230:ASP:O	27:BD:231:HIS:C	2.33	0.66
28:BE:132:HIS:O	28:BE:133:LYS:HB2	1.95	0.66
28:BE:5:LEU:C	28:BE:5:LEU:HD22	2.15	0.66
28:BE:92:THR:HG22	28:BE:92:THR:O	1.94	0.66
24:BA:38:A:N3	29:BF:48:THR:HG21	2.10	0.66
30:BG:32:PRO:CB	30:BG:163:ALA:HA	2.24	0.66
31:BH:97:ARG:HB3	31:BH:97:ARG:NH2	2.11	0.66
33:BL:10:LEU:HD21	33:BL:57:ILE:CG1	2.23	0.66
33:BL:21:PRO:HA	33:BL:25:PRO:HD2	1.76	0.66
34:BM:128:HIS:O	34:BM:131:GLN:HB2	1.95	0.66
29:BF:31:HIS:CB	36:BO:14:LYS:HZ2	2.06	0.66
37:BP:42:ILE:CD1	37:BP:46:GLN:HE21	2.08	0.66
37:BP:85:LYS:HG3	37:BP:87:LYS:H	1.60	0.66
38:BQ:20:LEU:O	38:BQ:21:TYR:C	2.33	0.66
43:BV:35:ILE:HG13	51:B4:28:PRO:CG	2.25	0.66
46:BY:116:VAL:CG2	46:BY:145:GLU:HG2	2.25	0.66
26:BC:120:MET:HG3	26:BC:145:VAL:HG13	1.77	0.66
26:BC:89:ALA:HB1	26:BC:154:ARG:N	2.09	0.66
24:BA:439:G:H2'	24:BA:440:G:C8	2.30	0.66
1:AA:1200:C:H5''	1:AA:1201:A:H3'	1.77	0.66
1:AA:1333:A:H8	1:AA:1333:A:O5'	1.79	0.66
1:AA:1389:C:O2'	1:AA:1390:U:H5'	1.95	0.66
1:AA:1404:C:C1'	1:AA:1499:A:C2	2.78	0.66
1:AA:390:C:H2'	1:AA:391:G:H8	1.60	0.66
1:AA:47:C:O2'	1:AA:48:C:P	2.52	0.66
1:AA:571:U:H5''	1:AA:571:U:H6	1.58	0.66
1:AA:795:C:O5'	1:AA:795:C:H6	1.77	0.66
1:AA:946:A:C2'	1:AA:947:G:C8	2.75	0.66
3:AC:34:G:C4	3:AC:35:A:C8	2.83	0.66
3:AC:55:U:H2'	3:AC:57:G:N7	2.10	0.66
1:AA:1206:G:H5'	5:AF:194:GLY:CA	2.23	0.66
5:AF:24:ALA:HB2	5:AF:32:LEU:HD12	1.76	0.66
6:AG:39:PRO:O	6:AG:44:GLY:HA3	1.95	0.66
7:AH:94:ALA:HB3	7:AH:117:ASP:C	2.15	0.66
9:AJ:87:VAL:HG13	9:AJ:152:ALA:CA	2.21	0.66
10:AK:82:HIS:O	10:AK:137:VAL:CA	2.41	0.66
10:AK:40:ALA:HB2	10:AK:45:ILE:CG1	2.24	0.66
11:AL:9:ARG:CD	11:AL:14:VAL:HG22	2.22	0.66
11:AL:40:LEU:C	11:AL:42:ARG:N	2.45	0.66
11:AL:98:PRO:C	11:AL:100:GLY:N	2.49	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AM:23:ILE:HG23	12:AM:85:LEU:CD2	2.21	0.66
12:AM:11:PHE:CZ	12:AM:65:LEU:HG	2.31	0.66
13:AN:111:ASP:CG	13:AN:113:PRO:HD3	2.16	0.66
18:AS:4:ILE:CG2	18:AS:21:VAL:CG1	2.72	0.66
8:AI:50:TYR:OH	20:AU:77:GLY:CA	2.43	0.66
21:AV:40:ILE:C	21:AV:68:GLY:HA2	2.16	0.66
50:B3:5:ILE:HD11	50:B3:10:VAL:N	2.11	0.66
54:B7:26:LYS:NZ	54:B7:43:GLN:HA	2.10	0.66
24:BA:1024:G:C5	24:BA:1025:G:H8	2.12	0.66
24:BA:1222:C:C2'	24:BA:1223:C:H5'	2.25	0.66
24:BA:1378:A:H2'	24:BA:1380:G:N7	2.11	0.66
24:BA:1491:G:O4'	27:BD:99:ASP:HB2	1.96	0.66
24:BA:14:A:N7	24:BA:15:G:C4	2.63	0.66
24:BA:1996:C:O2	24:BA:1997:G:H4'	1.94	0.66
24:BA:961:C:C5	24:BA:2031:A:C2	2.84	0.66
24:BA:2209:C:O2'	24:BA:2210:G:H3'	1.95	0.66
24:BA:2439:A:H4'	24:BA:2440:C:C5'	2.26	0.66
24:BA:2507:C:C2	24:BA:2583:G:N3	2.62	0.66
24:BA:253:C:H2'	24:BA:254:G:H5'	1.76	0.66
24:BA:2593:U:H6	24:BA:2593:U:OP2	1.77	0.66
24:BA:2747:G:N2	24:BA:2754:U:N3	2.43	0.66
24:BA:310:A:H2'	24:BA:312:G:C8	2.29	0.66
24:BA:35:G:N2	24:BA:450:G:H21	1.92	0.66
24:BA:465:G:O6	24:BA:466:A:N6	2.29	0.66
24:BA:574:C:H1'	24:BA:2055:C:H5	1.59	0.66
24:BA:627:A:N6	24:BA:638:G:H1'	2.08	0.66
24:BA:750:A:H2'	43:BV:90:ARG:HH12	1.60	0.66
24:BA:752:A:H62	24:BA:1781:C:H1'	1.56	0.66
24:BA:779:U:H2'	24:BA:780:G:O4'	1.95	0.66
25:BB:55:U:H2'	25:BB:56:G:O4'	1.96	0.66
27:BD:61:LEU:HD22	27:BD:63:ARG:HH21	1.59	0.66
28:BE:171:GLU:O	28:BE:184:VAL:HG12	1.95	0.66
28:BE:58:ARG:HH11	28:BE:75:VAL:CG1	2.08	0.66
29:BF:125:LEU:O	29:BF:126:VAL:HG12	1.96	0.66
29:BF:81:PRO:O	29:BF:83:PHE:N	2.26	0.66
30:BG:181:ARG:H	30:BG:181:ARG:CD	2.08	0.66
32:BK:5:LEU:N	32:BK:5:LEU:HD23	2.10	0.66
32:BK:6:LEU:HD22	32:BK:7:GLU:OE2	1.95	0.66
24:BA:1058:G:N2	33:BL:116:ASN:ND2	2.42	0.66
33:BL:10:LEU:HD11	33:BL:57:ILE:CD1	2.25	0.66
33:BL:72:PRO:O	33:BL:111:LYS:NZ	2.23	0.66
34:BM:37:LYS:HD2	34:BM:42:TRP:O	1.95	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BN:11:ALA:HB1	35:BN:97:ARG:HH12	1.57	0.66
37:BP:137:TYR:CE2	46:BY:124:ILE:HD12	2.30	0.66
37:BP:16:ARG:NH1	37:BP:72:LYS:HA	2.11	0.66
38:BQ:5:LYS:HE2	38:BQ:5:LYS:CA	2.24	0.66
38:BQ:79:LEU:HD23	38:BQ:80:PHE:HA	1.77	0.66
40:BS:70:VAL:HB	40:BS:74:ARG:HD3	1.77	0.66
41:BT:99:ALA:HA	41:BT:106:PHE:CB	2.26	0.66
42:BU:6:LYS:NZ	42:BU:10:LYS:HD2	2.10	0.66
43:BV:25:ARG:HA	43:BV:71:VAL:CG1	2.24	0.66
44:BW:7:VAL:HG22	48:B1:31:ARG:HH12	1.59	0.66
45:BX:37:VAL:HG22	45:BX:39:VAL:CG2	2.25	0.66
45:BX:95:LYS:HE3	45:BX:103:GLY:N	2.11	0.66
24:BA:2178:C:H5''	26:BC:46:LYS:HZ2	1.60	0.66
48:B1:7:GLU:HA	48:B1:10:LYS:HG2	1.77	0.66
24:BA:181:A:H5'	24:BA:181:A:C8	2.30	0.66
39:BR:56:LEU:HD12	39:BR:59:LYS:HD2	1.77	0.66
3:AB:4:C:H2'	3:AB:5:G:C8	2.29	0.66
1:AA:1049:U:H1'	1:AA:1201:A:C8	2.30	0.66
1:AA:1181:G:C2'	1:AA:1182:G:H5'	2.26	0.66
1:AA:1191:A:N3	1:AA:1191:A:H2'	2.08	0.66
1:AA:1405:G:H2'	1:AA:1406:U:H6	1.61	0.66
1:AA:1443:G:H4'	1:AA:1446:A:H5'	0.79	0.66
1:AA:185:A:H2'	1:AA:186:C:C6	2.30	0.66
1:AA:428:G:C2	1:AA:430:A:N6	2.64	0.66
1:AA:576:G:C8	1:AA:881:G:H1'	2.30	0.66
1:AA:647:C:C2	1:AA:648:A:C8	2.83	0.66
1:AA:686:U:O2'	1:AA:687:A:OP1	2.14	0.66
1:AA:794:A:H4'	1:AA:1521:G:O2'	1.94	0.66
1:AA:832:C:H2'	1:AA:833:U:C6	2.29	0.66
3:AB:58:A:H4'	3:AB:59:U:OP1	1.95	0.66
3:AC:21:A:H2'	3:AC:22:G:O5'	1.95	0.66
3:AC:37:A:H2'	3:AC:38:A:C8	2.29	0.66
5:AF:94:LEU:O	5:AF:95:THR:HG23	1.96	0.66
6:AG:119:GLN:HG3	6:AG:123:HIS:CE1	2.31	0.66
7:AH:11:ILE:HB	7:AH:31:LEU:CD2	2.24	0.66
10:AK:126:LYS:HZ2	10:AK:127:LEU:HD23	1.58	0.66
10:AK:109:ILE:O	10:AK:136:GLU:HB2	1.95	0.66
10:AK:70:GLN:HB2	10:AK:73:ASP:O	1.95	0.66
13:AN:23:ALA:HB2	13:AN:28:THR:HG23	1.78	0.66
14:AO:27:LEU:HB2	14:AO:64:TYR:CZ	2.30	0.66
16:AQ:23:ARG:N	16:AQ:33:VAL:HG21	2.10	0.66
17:AR:71:GLN:HG3	17:AR:75:PRO:CB	2.20	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AS:58:TYR:C	18:AS:58:TYR:CD1	2.68	0.66
19:AT:16:GLN:O	19:AT:17:LYS:HB2	1.95	0.66
49:B2:23:LEU:CA	49:B2:28:LEU:HD12	2.25	0.66
51:B4:12:SER:O	51:B4:13:LYS:C	2.31	0.66
52:B5:51:GLU:OE1	52:B5:52:VAL:HA	1.95	0.66
54:B7:15:LYS:NZ	54:B7:64:TYR:HB3	2.10	0.66
24:BA:2419:U:O4	54:B7:31:HIS:CE1	2.47	0.66
55:B8:25:VAL:HB	55:B8:34:GLN:CB	2.22	0.66
24:BA:1024:G:H3'	24:BA:1025:G:C5'	2.26	0.66
24:BA:124:G:OP1	24:BA:1376:C:H1'	1.95	0.66
24:BA:1394:U:H4'	24:BA:1603:A:C4'	2.25	0.66
24:BA:1528:A:N1	24:BA:1545:A:N1	2.43	0.66
24:BA:1538:G:H1	24:BA:1539:G:N2	1.92	0.66
24:BA:1674:G:O2'	24:BA:1676:A:N6	2.28	0.66
24:BA:1675:C:H5	28:BE:129:HIS:CD2	2.13	0.66
24:BA:1944:U:C1'	24:BA:1955:U:C6	2.78	0.66
24:BA:2244:U:O2'	24:BA:2434:A:N7	2.26	0.66
24:BA:2529:G:H5''	24:BA:2530:A:H5''	1.77	0.66
24:BA:2049:G:N2	24:BA:2620:C:C2	2.63	0.66
24:BA:270(B):A:H1'	24:BA:270(C):C:C6	2.30	0.66
24:BA:2711:A:C5'	24:BA:2712:U:H5'	2.25	0.66
24:BA:292:C:C6	24:BA:293:U:O4	2.49	0.66
24:BA:336:C:H2'	24:BA:337:C:C5'	2.25	0.66
24:BA:459:U:H5	24:BA:469:G:N2	1.94	0.66
24:BA:470:A:C6	24:BA:471:A:N3	2.63	0.66
24:BA:76:C:H4'	48:B1:54:ARG:HH21	1.60	0.66
24:BA:778:G:C2	24:BA:787:U:C2	2.83	0.66
24:BA:835:A:C4'	24:BA:2358:G:H1'	2.25	0.66
25:BB:57:A:H8	25:BB:57:A:H3'	1.60	0.66
24:BA:1675:C:N4	28:BE:128:SER:OG	2.28	0.66
28:BE:156:MET:SD	28:BE:157:ALA:N	2.67	0.66
29:BF:117:ARG:NE	29:BF:190:GLU:O	2.29	0.66
29:BF:57:VAL:O	29:BF:58:ALA:O	2.12	0.66
31:BH:29:PRO:CD	31:BH:79:VAL:O	2.43	0.66
33:BL:101:TRP:HZ3	33:BL:105:LEU:HD11	1.60	0.66
33:BL:51:ALA:O	33:BL:80:LYS:HG2	1.95	0.66
34:BM:33:LEU:HD11	34:BM:52:VAL:HG21	1.77	0.66
35:BN:112:MET:O	35:BN:115:VAL:CB	2.41	0.66
37:BP:20:ALA:O	37:BP:21:THR:HB	1.94	0.66
39:BR:9:ARG:HD3	39:BR:12:PHE:CE2	2.24	0.66
40:BS:39:ARG:O	40:BS:42:ILE:HG13	1.96	0.66
41:BT:97:ASP:HB3	41:BT:101:ARG:NH2	2.10	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BU:25:LEU:HA	42:BU:28:GLU:CD	2.16	0.66
43:BV:20:VAL:HG22	43:BV:24:ILE:CD1	2.21	0.66
45:BX:31:LEU:HB3	45:BX:32:PRO:HD2	1.76	0.66
45:BX:65:ALA:HB3	45:BX:66:PRO:CD	2.25	0.66
47:BZ:62:LEU:HD23	47:BZ:62:LEU:O	1.95	0.66
47:BZ:68:GLU:HB2	47:BZ:80:HIS:O	1.93	0.66
26:BC:56:GLN:O	26:BC:201:PRO:HG3	1.95	0.66
26:BC:22:ILE:HD11	26:BC:193:ILE:HD11	1.76	0.66
26:BC:27:HIS:CD2	26:BC:182:PRO:HB3	2.31	0.66
24:BA:80:G:O4'	24:BA:347:A:N6	2.28	0.66
1:AA:1054:C:C2'	1:AA:1055:A:H5''	2.25	0.66
1:AA:1157:A:N1	1:AA:1180:A:C4	2.63	0.66
1:AA:1373:G:H5''	9:AJ:36:LYS:HD2	1.76	0.66
1:AA:168:G:C6	1:AA:169:C:N4	2.63	0.66
1:AA:192:U:C2	1:AA:193:C:C5	2.83	0.66
1:AA:263:A:C8	1:AA:263:A:O5'	2.49	0.66
1:AA:363:A:C2'	1:AA:364:A:H5'	2.26	0.66
1:AA:671:G:H2'	1:AA:672:U:C1'	2.25	0.66
1:AA:67:C:O4'	1:AA:172:A:H1'	1.95	0.66
1:AA:705:U:C5	1:AA:706:A:N7	2.64	0.66
1:AA:821:G:O2'	1:AA:822:C:H5'	1.94	0.66
3:AB:29:G:H2'	3:AB:30:G:H8	1.60	0.66
4:AE:78:GLN:NE2	4:AE:96:ARG:NH2	2.43	0.66
8:AI:23:LYS:CA	8:AI:26:ILE:HD12	2.26	0.66
11:AL:23:ASN:ND2	11:AL:57:GLY:O	2.29	0.66
11:AL:26:VAL:HG13	11:AL:63:ILE:CD1	2.26	0.66
12:AM:52:GLY:H	12:AM:59:SER:HB2	1.59	0.66
12:AM:23:ILE:CG2	12:AM:85:LEU:HD23	2.21	0.66
13:AN:102:GLY:HA2	13:AN:105:VAL:CG2	2.24	0.66
13:AN:122:LYS:O	13:AN:126:ARG:HG3	1.96	0.66
14:AO:62:SER:O	14:AO:63:GLY:C	2.34	0.66
18:AS:73:LEU:O	18:AS:73:LEU:HD13	1.94	0.66
1:AA:760:G:H2'	19:AT:103:GLY:O	1.95	0.66
21:AV:40:ILE:HG13	21:AV:69:HIS:O	1.93	0.66
48:B1:23:LYS:HE3	48:B1:55:LEU:HD21	1.78	0.66
49:B2:11:SER:H	49:B2:12:PRO:CD	2.09	0.66
50:B3:41:PRO:CB	50:B3:58:ARG:HD2	2.26	0.66
24:BA:1071:G:N3	24:BA:1089:G:H2'	2.11	0.66
24:BA:1092:C:H3'	24:BA:1092:C:H6	1.59	0.66
24:BA:10:G:H2'	24:BA:11:G:C8	2.29	0.66
24:BA:1124:C:H3'	24:BA:1125:G:H8	1.60	0.66
24:BA:1604:C:O2'	24:BA:1605:C:H5'	1.95	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1679:U:H3	24:BA:1764:G:H5''	1.60	0.66
24:BA:152:G:N2	24:BA:175:G:H1'	2.10	0.66
24:BA:1824:G:N3	24:BA:1825:A:H1'	2.09	0.66
24:BA:2238:G:H1'	24:BA:2240:C:C5	2.31	0.66
24:BA:2312:U:P	30:BG:86:MET:HG2	2.36	0.66
24:BA:2331:G:H2'	24:BA:2332:U:C1'	2.26	0.66
24:BA:2564:A:C2'	24:BA:2565:A:C8	2.72	0.66
24:BA:2844:G:H2'	24:BA:2844:G:N3	2.09	0.66
24:BA:2876:G:H2'	24:BA:2877:G:H8	1.59	0.66
24:BA:476:G:N2	24:BA:478:A:H3'	2.10	0.66
24:BA:479:A:O2'	24:BA:480:A:H3'	1.96	0.66
24:BA:613:U:H5'	24:BA:614:U:C6	2.30	0.66
24:BA:627:A:C4'	24:BA:627:A:OP2	2.43	0.66
24:BA:848:G:H2'	24:BA:849:A:H8	1.57	0.66
24:BA:894:C:H2'	24:BA:895:U:H6	1.60	0.66
24:BA:99:U:H5'	24:BA:101:G:H5''	1.76	0.66
25:BB:110:G:C2	25:BB:111:U:H1'	2.31	0.66
25:BB:14:U:H6	25:BB:14:U:H3'	1.60	0.66
28:BE:102:VAL:CG2	28:BE:103:ASP:N	2.59	0.66
28:BE:172:VAL:O	28:BE:182:LEU:HD21	1.95	0.66
28:BE:13:ARG:HE	28:BE:21:VAL:C	1.99	0.66
29:BF:158:THR:HG23	29:BF:159:GLY:N	2.09	0.66
31:BH:149:ARG:HA	31:BH:162:ILE:HG21	1.77	0.66
31:BH:40:GLU:HG3	31:BH:61:HIS:NE2	2.11	0.66
32:BK:14:ASP:O	32:BK:15:VAL:O	2.13	0.66
32:BK:35:LEU:N	32:BK:35:LEU:HD22	2.11	0.66
34:BM:104:LYS:HA	34:BM:117:PHE:HZ	1.59	0.66
34:BM:7:LYS:HE2	34:BM:39:ARG:HH22	1.61	0.66
24:BA:623:G:C3'	36:BO:105:LEU:HD22	2.24	0.66
37:BP:101:ARG:HH11	37:BP:101:ARG:CG	2.08	0.66
38:BQ:41:ALA:CB	38:BQ:114:VAL:HG21	2.22	0.66
39:BR:49:VAL:CB	39:BR:80:LEU:HG	2.25	0.66
40:BS:6:LEU:HD21	40:BS:7:ILE:HG23	1.78	0.66
44:BW:43:VAL:HG12	44:BW:51:VAL:HG22	1.76	0.66
47:BZ:41:ARG:HB3	47:BZ:41:ARG:HH11	1.56	0.66
3:AD:55:U:H1'	3:AD:58:A:N7	2.10	0.66
26:BC:120:MET:SD	26:BC:145:VAL:HG22	2.36	0.66
26:BC:103:ILE:CD1	26:BC:127:LEU:HD11	2.24	0.66
1:AA:937:A:H1'	1:AA:1379:G:N2	2.10	0.66
1:AA:236:G:H3'	1:AA:237:C:C6	2.30	0.66
1:AA:434:U:H2'	1:AA:435:C:H6	1.60	0.66
1:AA:872:A:H2'	1:AA:873:A:C5'	2.24	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:908:A:C2	1:AA:909:A:N7	2.64	0.66
4:AE:164:VAL:HG22	4:AE:165:VAL:N	2.11	0.66
4:AE:194:PRO:O	4:AE:196:LEU:N	2.29	0.66
4:AE:185:ILE:CG2	4:AE:199:TYR:HB2	2.26	0.66
4:AE:84:GLU:N	4:AE:234:PRO:HG3	2.10	0.66
1:AA:829:G:O2'	4:AE:26:PRO:HG2	1.95	0.66
4:AE:96:ARG:HD2	4:AE:96:ARG:N	2.11	0.66
5:AF:187:ALA:HB3	5:AF:198:VAL:CG2	2.26	0.66
6:AG:117:ALA:O	6:AG:121:VAL:HG23	1.95	0.66
6:AG:16:GLY:O	6:AG:18:LYS:N	2.28	0.66
7:AH:61:TYR:HA	7:AH:64:ARG:CG	2.25	0.66
10:AK:101:PRO:O	10:AK:102:ARG:CB	2.43	0.66
10:AK:10:LEU:CD1	10:AK:85:ARG:HD3	2.21	0.66
11:AL:51:ARG:HH11	11:AL:51:ARG:CA	2.07	0.66
12:AM:8:LEU:HD22	12:AM:94:VAL:CG1	2.25	0.66
16:AQ:22:THR:CG2	16:AQ:33:VAL:HG23	2.26	0.66
20:AU:66:LEU:HD12	20:AU:67:ALA:CA	2.25	0.66
22:AW:25:ARG:HH11	22:AW:25:ARG:HG3	1.61	0.66
22:AW:61:SER:OG	22:AW:62:LEU:N	2.28	0.66
24:BA:1158:C:H5'	49:B2:31:LEU:HB3	1.78	0.66
50:B3:41:PRO:C	50:B3:58:ARG:HH11	1.99	0.66
52:B5:20:ASN:ND2	52:B5:43:CYS:H	1.91	0.66
24:BA:2742:C:OP1	55:B8:35:ARG:HD3	1.95	0.66
24:BA:1023:U:OP2	24:BA:1025:G:C6	2.49	0.66
24:BA:1069:A:H8	24:BA:1074:G:O6	1.79	0.66
24:BA:1027:A:H61	24:BA:1126:A:H1'	1.60	0.66
24:BA:1264:G:H5''	24:BA:1265:A:C5'	2.25	0.66
24:BA:1352:U:H2'	24:BA:1352:U:O2	1.94	0.66
24:BA:1386:C:H2'	24:BA:1387:C:C6	2.30	0.66
24:BA:1428:C:O2'	24:BA:1429:G:OP1	2.12	0.66
24:BA:1497:U:O4	24:BA:1577:C:O5'	2.14	0.66
24:BA:1779:U:H3'	24:BA:1779:U:H6	1.61	0.66
24:BA:1803:A:H8	24:BA:1803:A:OP2	1.79	0.66
24:BA:1952:A:C5	24:BA:1953:A:C2	2.84	0.66
24:BA:528:A:N1	24:BA:2043:C:OP2	2.29	0.66
24:BA:226:G:O2'	24:BA:228:A:N1	2.29	0.66
24:BA:2282:G:N2	24:BA:2427:C:N3	2.40	0.66
24:BA:2387:U:H1'	47:BZ:41:ARG:HH21	1.56	0.66
24:BA:2392:A:H2'	24:BA:2393:A:O5'	1.95	0.66
24:BA:2674:G:H5''	35:BN:26:LYS:HD2	1.78	0.66
24:BA:2832:U:H1'	24:BA:2834:G:N3	2.10	0.66
24:BA:2875:C:H2'	24:BA:2876:G:O4'	1.95	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:301:G:OP1	24:BA:301:G:H4'	1.94	0.66
24:BA:459:U:H3'	53:B6:40:TRP:HH2	1.61	0.66
24:BA:573:G:O2'	24:BA:574:C:O5'	2.13	0.66
24:BA:733:G:C8	24:BA:761:A:N6	2.64	0.66
25:BB:75:G:H4'	46:BY:36:LYS:NZ	2.10	0.66
27:BD:147:LEU:CB	27:BD:185:VAL:HG22	2.16	0.66
27:BD:222:ARG:O	27:BD:225:ALA:HB2	1.96	0.66
28:BE:103:ASP:O	28:BE:104:VAL:CG2	2.43	0.66
28:BE:31:CYS:HB3	28:BE:32:PRO:HD2	1.78	0.66
29:BF:38:ARG:NH1	36:BO:10:PRO:CA	2.57	0.66
29:BF:45:ARG:HG3	29:BF:46:ARG:H	1.60	0.66
30:BG:18:GLU:OE1	30:BG:19:LEU:HD12	1.95	0.66
30:BG:74:LYS:HB3	30:BG:87:PRO:HG2	1.76	0.66
31:BH:105:LEU:CB	31:BH:113:VAL:HG11	2.23	0.66
31:BH:11:VAL:HB	31:BH:50:VAL:HG21	1.75	0.66
31:BH:13:LYS:HE3	31:BH:80:SER:HA	1.78	0.66
32:BK:2:LYS:NZ	32:BK:39:ALA:HB1	2.10	0.66
34:BM:100:GLU:CA	34:BM:103:VAL:HG13	2.26	0.66
34:BM:103:VAL:HG22	34:BM:104:LYS:CD	2.26	0.66
34:BM:14:VAL:HG13	34:BM:138:LEU:CB	2.21	0.66
37:BP:54:MET:HB3	37:BP:58:PHE:HE2	1.60	0.66
38:BQ:17:ARG:CG	38:BQ:18:LEU:H	2.09	0.66
39:BR:65:VAL:CG2	39:BR:66:ALA:N	2.58	0.66
39:BR:30:ARG:CG	39:BR:91:PRO:HG3	2.26	0.66
44:BW:65:ARG:HA	44:BW:70:LEU:HD12	1.78	0.66
24:BA:2115:G:N3	24:BA:2117:A:N7	2.43	0.66
24:BA:2113:U:H3	24:BA:2169:A:N6	1.94	0.66
1:AA:1182:G:H4'	1:AA:1183:A:O5'	1.96	0.66
1:AA:1234:C:C5'	1:AA:1364:U:O2'	2.41	0.66
1:AA:198:G:O2'	1:AA:199:G:H5'	1.95	0.66
1:AA:250:A:O2'	1:AA:251:G:OP2	2.14	0.66
1:AA:380:G:N2	1:AA:382:A:H3'	2.11	0.66
1:AA:435:C:H2'	1:AA:436:C:O4'	1.94	0.66
1:AA:562:C:O2'	14:AO:15:ARG:HB3	1.96	0.66
1:AA:701:C:O2'	1:AA:702:A:OP2	2.12	0.66
1:AA:715:A:O2'	1:AA:716:A:H5'	1.96	0.66
1:AA:943:U:H2'	1:AA:944:G:C8	2.31	0.66
3:AB:75:C:C5	3:AB:76:A:H2	2.13	0.66
4:AE:17:PHE:CA	4:AE:42:ILE:HG22	2.25	0.66
6:AG:101:LEU:HD23	6:AG:135:LEU:O	1.96	0.66
6:AG:4:TYR:O	6:AG:5:ILE:HG23	1.96	0.66
7:AH:17:ALA:HA	7:AH:26:PHE:CD2	2.31	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AJ:115:ARG:HG3	9:AJ:118:VAL:HG21	1.78	0.66
10:AK:31:PHE:O	10:AK:35:ILE:HG12	1.96	0.66
14:AO:34:ARG:HD3	14:AO:105:TYR:OH	1.95	0.66
14:AO:53:ARG:NE	14:AO:92:ASP:OD2	2.29	0.66
15:AP:18:ALA:HB2	15:AP:45:VAL:CG2	2.25	0.66
15:AP:67:GLU:CD	15:AP:68:GLY:N	2.49	0.66
16:AQ:45:ARG:CG	16:AQ:45:ARG:HH11	2.08	0.66
22:AW:66:ALA:O	22:AW:67:ALA:C	2.33	0.66
49:B2:40:THR:CG2	49:B2:42:ALA:HB3	2.26	0.66
50:B3:28:LYS:HB3	50:B3:29:PRO:HD2	1.78	0.66
50:B3:58:ARG:HD3	50:B3:59:PHE:CE2	2.30	0.66
53:B6:2:LYS:O	53:B6:4:THR:N	2.27	0.66
53:B6:30:VAL:HG13	53:B6:33:ARG:NH2	2.10	0.66
53:B6:33:ARG:O	53:B6:37:LYS:CB	2.43	0.66
53:B6:42:LEU:O	53:B6:45:ALA:CB	2.44	0.66
54:B7:12:LYS:O	54:B7:13:ARG:C	2.34	0.66
55:B8:32:HIS:O	55:B8:34:GLN:N	2.29	0.66
24:BA:1066:U:O2'	24:BA:1068:G:H8	1.78	0.66
24:BA:1174:A:C2'	24:BA:1175:U:H5''	2.17	0.66
24:BA:1347:G:O2'	24:BA:1348:G:H5'	1.95	0.66
24:BA:1359:A:N6	24:BA:1360:A:N7	2.44	0.66
24:BA:1591:G:C4	24:BA:1592:C:C5	2.83	0.66
24:BA:1667:G:O3'	35:BN:7:TYR:OH	2.13	0.66
24:BA:195:A:N7	24:BA:197:A:OP1	2.29	0.66
24:BA:1971:A:C8	24:BA:1971:A:C3'	2.72	0.66
24:BA:46:C:N4	24:BA:214:G:H8	1.94	0.66
24:BA:2507:C:C4'	24:BA:2573:C:H41	2.09	0.66
24:BA:2568:C:H2'	24:BA:2569:G:C5'	2.24	0.66
24:BA:2834:G:O6	24:BA:2835:A:C2	2.47	0.66
24:BA:2848:G:H22	24:BA:2867:G:C1'	2.00	0.66
24:BA:503:A:N1	24:BA:505:A:N6	2.44	0.66
24:BA:526:A:H4'	24:BA:527:C:OP1	1.94	0.66
24:BA:566:U:H6	24:BA:567:A:N7	1.94	0.66
24:BA:704:G:N2	24:BA:726:G:HO2'	1.92	0.66
24:BA:824:A:H3'	24:BA:825:C:H5	1.59	0.66
24:BA:821:A:C8	24:BA:946:G:C5	2.83	0.66
24:BA:988:A:C4'	24:BA:1155:A:H2	2.07	0.66
24:BA:988:A:P	49:B2:10:LYS:HZ2	2.18	0.66
25:BB:61:G:N2	25:BB:62:C:C2	2.64	0.66
27:BD:209:ALA:O	27:BD:210:GLY:C	2.34	0.66
28:BE:169:ASN:ND2	28:BE:170:LEU:N	2.44	0.66
28:BE:173:VAL:HG11	28:BE:184:VAL:HA	1.77	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:BE:92:THR:HG23	28:BE:96:PHE:HB2	1.76	0.66
29:BF:39:TRP:CB	29:BF:101:LEU:HG	2.26	0.66
29:BF:200:GLU:OE1	29:BF:201:VAL:CG2	2.36	0.66
29:BF:44:ARG:HG3	29:BF:45:ARG:N	2.10	0.66
31:BH:103:LEU:HB3	31:BH:105:LEU:CD1	2.26	0.66
31:BH:28:GLY:HA3	31:BH:79:VAL:O	1.95	0.66
33:BL:8:VAL:HG22	33:BL:30:HIS:CG	2.30	0.66
34:BM:88:GLU:HB2	34:BM:89:LYS:HE2	1.78	0.66
35:BN:106:LEU:HD22	40:BS:39:ARG:CZ	2.25	0.66
24:BA:811:U:OP2	36:BO:28:GLY:HA3	1.95	0.66
39:BR:19:LYS:O	39:BR:20:ARG:C	2.34	0.66
43:BV:30:GLU:O	43:BV:33:ARG:HB3	1.95	0.66
45:BX:74:PRO:CB	45:BX:101:LYS:N	2.59	0.66
46:BY:123:ASP:H	46:BY:171:ILE:CD1	2.09	0.66
32:BK:128:LEU:HD23	32:BK:129:THR:H	1.61	0.66
32:BK:72:LEU:O	32:BK:140:LEU:HD21	1.96	0.66
26:BC:52:ARG:HG3	26:BC:53:ARG:HG3	1.78	0.66
24:BA:1116:C:OP2	24:BA:1116:C:H6	1.78	0.66
1:AA:1263:C:C2	1:AA:1264:C:C5	2.84	0.66
1:AA:1347:G:H3'	11:AL:107:ARG:C	2.16	0.66
1:AA:437:U:H2'	1:AA:438:G:O4'	1.96	0.66
1:AA:483:C:OP2	1:AA:484:G:H3'	1.95	0.66
1:AA:582:U:OP1	17:AR:68:ARG:NH1	2.28	0.66
1:AA:967:C:H6	1:AA:967:C:O5'	1.78	0.66
3:AB:23:A:H2'	3:AB:24:G:O4'	1.96	0.66
3:AC:75:C:H6	3:AC:76:A:H4'	1.61	0.66
6:AG:11:LEU:CA	6:AG:14:ARG:HB3	2.26	0.66
6:AG:123:HIS:HB2	6:AG:125:HIS:CE1	2.31	0.66
10:AK:37:ARG:HD3	10:AK:41:ARG:CG	2.16	0.66
7:AH:152:ARG:HH21	10:AK:44:PHE:H	1.41	0.66
11:AL:101:PHE:CD1	11:AL:101:PHE:N	2.64	0.66
11:AL:37:PHE:N	11:AL:37:PHE:CD2	2.62	0.66
11:AL:53:VAL:HG11	11:AL:92:TYR:OH	1.96	0.66
12:AM:27:ALA:HB2	12:AM:85:LEU:CD1	2.26	0.66
13:AN:68:ALA:O	13:AN:71:LYS:HG3	1.94	0.66
1:AA:564:C:OP1	14:AO:15:ARG:NH2	2.29	0.66
14:AO:60:LEU:CD1	14:AO:64:TYR:HB3	2.26	0.66
15:AP:22:ILE:HB	15:AP:25:ILE:HD12	1.77	0.66
13:AN:110:ASP:CB	20:AU:88:LYS:HD2	2.26	0.66
21:AV:62:ILE:CD1	21:AV:67:VAL:HG13	2.26	0.66
22:AW:53:LEU:HD21	22:AW:92:LEU:HD13	1.78	0.66
22:AW:73:HIS:O	22:AW:76:ALA:N	2.19	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BW:7:VAL:CG2	48:B1:28:MET:HG2	2.25	0.66
48:B1:35:SER:HA	48:B1:38:GLN:OE1	1.95	0.66
55:B8:2:LYS:HE2	55:B8:35:ARG:HD3	1.78	0.66
24:BA:1164:G:C6	24:BA:1165:U:C4	2.83	0.66
24:BA:1636:C:H1'	24:BA:1761:C:H1'	1.76	0.66
24:BA:1665:A:H4'	35:BN:66:LYS:HB2	1.77	0.66
24:BA:1728:G:H2'	24:BA:1728:G:N3	2.08	0.66
24:BA:1858:G:N2	24:BA:1884:A:H1'	2.11	0.66
24:BA:2018:G:H2'	24:BA:2019:A:C8	2.30	0.66
24:BA:2023:G:O2'	24:BA:2024:G:H5'	1.95	0.66
24:BA:1889:A:O4'	24:BA:2087:G:O4'	2.13	0.66
24:BA:226:G:C2	24:BA:227:A:C2	2.84	0.66
24:BA:2536:G:C6	24:BA:2537:U:C4	2.84	0.66
24:BA:2542:A:C4'	24:BA:2543:G:OP1	2.41	0.66
24:BA:2619:C:H2'	24:BA:2620:C:O5'	1.94	0.66
24:BA:2631:G:H4'	24:BA:2892:A:O5'	1.96	0.66
24:BA:2747:G:C4	24:BA:2756:U:O4	2.49	0.66
24:BA:728:G:C6	24:BA:762:U:C2'	2.78	0.66
24:BA:772:C:O2'	24:BA:773:U:H5'	1.96	0.66
27:BD:136:ILE:CD1	27:BD:173:VAL:HG21	2.26	0.66
27:BD:136:ILE:HB	27:BD:168:ARG:HH21	1.54	0.66
27:BD:172:TYR:HB3	27:BD:184:LYS:CG	2.26	0.66
24:BA:1803:A:O3'	27:BD:257:LEU:HD22	1.96	0.66
27:BD:7:LYS:HE2	27:BD:25:THR:CB	2.24	0.66
27:BD:260:ARG:CG	27:BD:260:ARG:HH11	2.08	0.66
29:BF:137:LYS:O	29:BF:140:LEU:HB3	1.95	0.66
29:BF:188:ARG:HG2	29:BF:188:ARG:NH2	2.08	0.66
29:BF:82:ILE:N	29:BF:82:ILE:CD1	2.56	0.66
30:BG:29:TRP:C	30:BG:31:VAL:H	1.98	0.66
31:BH:119:GLU:C	31:BH:121:ILE:H	1.99	0.66
31:BH:164:TYR:CE2	31:BH:167:GLU:N	2.58	0.66
32:BK:4:ILE:HD11	32:BK:39:ALA:N	2.09	0.66
33:BL:101:TRP:CZ3	33:BL:105:LEU:HD11	2.30	0.66
33:BL:131:ALA:HB1	33:BL:136:VAL:CG1	2.26	0.66
33:BL:23:VAL:O	33:BL:27:LEU:HB2	1.95	0.66
33:BL:78:ILE:HD13	33:BL:131:ALA:CB	2.21	0.66
35:BN:86:ILE:HG23	35:BN:90:GLN:O	1.95	0.66
24:BA:623:G:C8	36:BO:105:LEU:CD1	2.79	0.66
36:BO:122:PRO:HB2	36:BO:138:LEU:CB	2.25	0.66
36:BO:88:LEU:HD11	36:BO:124:LYS:NZ	2.11	0.66
38:BQ:33:ARG:HA	38:BQ:115:GLU:CB	2.25	0.66
40:BS:61:PHE:O	40:BS:62:THR:HG23	1.95	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:BV:33:ARG:NH1	43:BV:36:LEU:HB3	2.10	0.66
46:BY:4:ARG:CG	46:BY:38:TYR:O	2.44	0.66
46:BY:94:GLU:O	46:BY:94:GLU:HG2	1.96	0.66
47:BZ:25:ARG:HG3	47:BZ:37:LEU:HA	1.76	0.66
32:BK:77:LEU:CD2	32:BK:140:LEU:HD23	2.25	0.66
26:BC:122:ALA:O	26:BC:126:LYS:HB2	1.94	0.66
45:BX:41:GLY:O	45:BX:42:VAL:HG13	1.95	0.66
48:B1:6:GLU:C	48:B1:10:LYS:HE2	2.16	0.66
33:BL:14:ALA:HB2	33:BL:53:VAL:CB	2.25	0.66
24:BA:347:A:N3	24:BA:347:A:H2'	2.11	0.66
25:BB:0:A:H5''	25:BB:0:A:N3	2.11	0.66
1:AA:1049:U:H6	1:AA:1049:U:O5'	1.78	0.66
1:AA:479:C:H2'	1:AA:480:U:C2	2.31	0.66
1:AA:579:G:O2'	1:AA:580:U:H5'	1.95	0.66
1:AA:597:G:C6	1:AA:644:G:C6	2.84	0.66
1:AA:688:G:O2'	1:AA:689:C:H5'	1.96	0.66
1:AA:696:A:N3	1:AA:697:U:O4'	2.29	0.66
1:AA:714:G:H2'	1:AA:715:A:C8	2.31	0.66
3:AC:74:C:H42	24:BA:2253:G:N2	1.94	0.66
3:AC:74:C:H2'	3:AC:75:C:H5''	1.77	0.66
3:AD:34:G:OP1	3:AD:35:A:H8	1.79	0.66
4:AE:102:LEU:HB3	4:AE:180:LEU:HD13	1.78	0.66
1:AA:1100:C:OP2	4:AE:98:LEU:HD21	1.95	0.66
1:AA:1190:G:OP2	5:AF:5:ILE:HG13	1.95	0.66
6:AG:144:ASP:C	6:AG:184:LYS:HD3	2.16	0.66
6:AG:149:ALA:O	6:AG:152:SER:HB3	1.95	0.66
6:AG:195:ALA:O	6:AG:196:LEU:HD12	1.95	0.66
6:AG:30:LYS:HG2	6:AG:35:ARG:HD2	1.78	0.66
7:AH:149:GLU:HA	7:AH:152:ARG:HB3	1.77	0.66
1:AA:1298:C:N4	9:AJ:114:ARG:HB3	2.10	0.66
10:AK:51:VAL:CG2	10:AK:60:ARG:HH21	2.06	0.66
14:AO:34:ARG:HB2	14:AO:105:TYR:OH	1.95	0.66
14:AO:69:TYR:O	14:AO:71:PRO:HD3	1.96	0.66
19:AT:40:LYS:HZ3	19:AT:40:LYS:CB	2.09	0.66
49:B2:10:LYS:NZ	49:B2:12:PRO:CG	2.58	0.66
51:B4:37:LYS:HD2	51:B4:37:LYS:H	1.61	0.66
52:B5:46:HIS:CG	52:B5:47:THR:N	2.63	0.66
54:B7:23:VAL:HG23	54:B7:48:PHE:HB2	1.78	0.66
24:BA:1181:C:H2'	24:BA:1182:A:C1'	2.25	0.66
24:BA:1289:C:H4'	24:BA:1330:C:H4'	1.77	0.66
24:BA:1515:C:O2'	24:BA:1516:U:OP1	2.10	0.66
24:BA:154:G:H2'	24:BA:155:C:H6	1.61	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:154:G:N1	24:BA:173:G:N1	2.43	0.66
24:BA:1913:A:H2'	24:BA:1916:A:C2	2.31	0.66
24:BA:2004:G:N7	24:BA:2005:A:N7	2.43	0.66
24:BA:2323:G:H2'	24:BA:2324:C:C5	2.31	0.66
24:BA:2433:A:N6	50:B3:32:TYR:CE2	2.55	0.66
24:BA:2447:G:H8	24:BA:2500:U:H3'	0.87	0.66
24:BA:251:A:C4	24:BA:252:G:H1'	2.30	0.66
24:BA:783:A:C5'	24:BA:2589:A:OP1	2.35	0.66
24:BA:2781:A:O3'	24:BA:2782:G:H4'	1.96	0.66
24:BA:629:G:H1'	24:BA:639:U:O2'	1.95	0.66
27:BD:69:ARG:NH2	27:BD:130:ALA:CB	2.59	0.66
27:BD:131:LEU:CG	27:BD:132:PRO:HD2	2.22	0.66
24:BA:1799:G:H8	27:BD:268:ARG:HH12	1.39	0.66
28:BE:182:LEU:HD22	28:BE:184:VAL:HG13	1.77	0.66
28:BE:98:PRO:HD3	28:BE:175:VAL:CG1	2.25	0.66
29:BF:155:LEU:CG	29:BF:189:THR:HG21	2.24	0.66
31:BH:119:GLU:N	31:BH:121:ILE:HG22	2.10	0.66
31:BH:167:GLU:O	31:BH:169:VAL:N	2.29	0.66
31:BH:41:MET:HE1	31:BH:68:THR:HG23	1.78	0.66
31:BH:72:ILE:O	31:BH:75:ALA:HB3	1.96	0.66
31:BH:7:LEU:C	31:BH:51:ARG:NH2	2.48	0.66
24:BA:1080:C:O2'	33:BL:126:MET:CG	2.43	0.66
35:BN:10:VAL:O	35:BN:11:ALA:HB3	1.95	0.66
35:BN:24:VAL:CA	35:BN:39:ILE:HG22	2.23	0.66
35:BN:97:ARG:CB	35:BN:97:ARG:NH2	2.39	0.66
36:BO:117:GLU:HG2	36:BO:118:GLY:H	1.60	0.66
37:BP:22:LYS:HD2	37:BP:99:PRO:CB	2.26	0.66
37:BP:56:ARG:CD	37:BP:57:HIS:N	2.58	0.66
37:BP:97:VAL:C	37:BP:98:LYS:HE2	2.15	0.66
38:BQ:70:LEU:N	38:BQ:70:LEU:HD23	2.11	0.66
38:BQ:86:ARG:NH1	38:BQ:86:ARG:CB	2.55	0.66
40:BS:76:PHE:CZ	40:BS:78:LEU:HD12	2.31	0.66
40:BS:45:PHE:CE1	40:BS:87:ASP:HB2	2.31	0.66
43:BV:51:LEU:O	43:BV:54:ALA:HB3	1.95	0.66
44:BW:16:LYS:CE	44:BW:16:LYS:H	2.09	0.66
45:BX:14:LEU:HD22	45:BX:20:TYR:N	2.11	0.66
46:BY:95:PRO:HG2	46:BY:131:ARG:H	1.60	0.66
46:BY:45:ASP:OD1	46:BY:45:ASP:N	2.25	0.66
46:BY:57:ILE:C	46:BY:58:VAL:HG22	2.15	0.66
32:BK:87:LYS:HB3	32:BK:121:LYS:CE	2.25	0.66
3:AD:62:C:C4'	26:BC:52:ARG:HD3	2.25	0.66
24:BA:2132:U:H2'	24:BA:2134:A:C8	2.31	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:BL:14:ALA:HB1	33:BL:48:MET:O	1.96	0.66
1:AA:1003:G:C6	1:AA:1004:A:H1'	2.30	0.66
1:AA:1040:U:H2'	1:AA:1041:A:C8	2.31	0.66
1:AA:1158:C:N3	1:AA:1160:G:C8	2.64	0.66
1:AA:1227:A:OP1	21:AV:80:TYR:CE2	2.49	0.66
1:AA:953:G:C6	1:AA:1229:A:N6	2.64	0.66
1:AA:1240:U:OP2	9:AJ:116:ALA:N	2.29	0.66
1:AA:1339:A:H2'	1:AA:1340:A:C5'	2.22	0.66
1:AA:1378:C:O2	1:AA:1378:C:C2'	2.44	0.66
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.28	0.66
1:AA:1526:G:H2'	1:AA:1527:C:C5	2.31	0.66
1:AA:267:C:N4	1:AA:268:C:N4	2.44	0.66
1:AA:560:U:O2'	1:AA:561:U:OP2	2.13	0.66
1:AA:566:G:H4'	1:AA:567:G:OP1	1.96	0.66
1:AA:647:C:N3	1:AA:648:A:N7	2.44	0.66
1:AA:87:A:H2'	1:AA:88:C:O4'	1.96	0.66
1:AA:994:A:C8	1:AA:1216:G:H4'	2.31	0.66
4:AE:101:MET:C	4:AE:103:THR:H	1.99	0.66
5:AF:24:ALA:HB1	5:AF:28:GLN:NE2	2.11	0.66
6:AG:57:ARG:HH22	7:AH:107:ARG:HD3	1.61	0.66
7:AH:41:VAL:HG11	7:AH:112:LEU:HB3	1.77	0.66
7:AH:81:GLU:CA	7:AH:90:VAL:HG22	2.25	0.66
9:AJ:140:ASP:O	9:AJ:144:MET:CB	2.43	0.66
1:AA:942:G:N2	11:AL:124:GLN:HE22	1.90	0.66
5:AF:5:ILE:HG23	12:AM:51:ARG:HH12	1.61	0.66
12:AM:24:VAL:CG2	12:AM:72:VAL:HG13	2.25	0.66
19:AT:65:ILE:HG23	19:AT:69:LYS:O	1.96	0.66
49:B2:29:ARG:O	49:B2:30:ARG:C	2.33	0.66
50:B3:20:ASN:CB	50:B3:30:GLU:CD	2.64	0.66
52:B5:46:HIS:ND1	52:B5:47:THR:N	2.44	0.66
54:B7:60:LEU:HD11	54:B7:64:TYR:HB2	1.78	0.66
24:BA:1249:U:O4	36:BO:21:ARG:CZ	2.44	0.66
24:BA:1797:C:H2'	24:BA:1798:U:C5	2.31	0.66
24:BA:2009:G:O2'	24:BA:2010:G:H5'	1.95	0.66
24:BA:2016:U:H2'	24:BA:2017:U:O4'	1.96	0.66
24:BA:2212:A:C2'	24:BA:2212:A:N3	2.56	0.66
24:BA:2285:C:H5	52:B5:27:LYS:NZ	1.94	0.66
24:BA:2597:G:H5'	27:BD:242:ARG:HE	1.59	0.66
24:BA:107:C:H4'	24:BA:293:U:C1'	2.23	0.66
24:BA:605:C:OP1	29:BF:104:LYS:HB2	1.96	0.66
24:BA:59:U:H2'	24:BA:60:G:O4'	1.95	0.66
24:BA:627:A:C2'	24:BA:628:G:O4'	2.41	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:777:A:O2'	24:BA:778:G:H5'	1.95	0.66
24:BA:917:A:N6	24:BA:918:A:C6	2.64	0.66
24:BA:970:C:C2	24:BA:971:C:C5	2.85	0.66
25:BB:78:A:H2'	25:BB:79:C:H5'	1.76	0.66
27:BD:132:PRO:O	27:BD:133:LEU:C	2.34	0.66
29:BF:98:SER:O	29:BF:99:TYR:HB2	1.94	0.66
30:BG:78:SER:HB2	30:BG:82:LEU:HB3	1.78	0.66
31:BH:66:GLY:O	31:BH:70:THR:HG23	1.96	0.66
34:BM:23:LEU:HD21	34:BM:61:ARG:O	1.95	0.66
36:BO:74:GLU:CB	36:BO:111:ARG:O	2.31	0.66
37:BP:99:PRO:O	37:BP:100:GLY:C	2.33	0.66
38:BQ:83:ILE:CG2	38:BQ:86:ARG:CZ	2.74	0.66
40:BS:7:ILE:C	40:BS:11:GLU:OE1	2.34	0.66
40:BS:53:ARG:HH21	40:BS:102:ILE:CD1	2.09	0.66
40:BS:82:LEU:O	40:BS:85:LYS:NZ	2.28	0.66
41:BT:66:ASN:C	41:BT:70:ARG:HE	2.00	0.66
44:BW:50:LYS:HZ2	44:BW:85:PRO:HD2	1.60	0.66
46:BY:39:VAL:HA	46:BY:44:PHE:CZ	2.30	0.66
47:BZ:46:LYS:HE2	47:BZ:77:ARG:N	2.11	0.66
32:BK:77:LEU:CD2	32:BK:77:LEU:N	2.54	0.66
3:AD:15:G:H2'	3:AD:60:U:O2	1.96	0.66
24:BA:1417:C:N4	24:BA:1581:G:H1	1.85	0.66
33:BL:45:THR:HG22	33:BL:53:VAL:HG11	1.76	0.66
28:BE:15:PHE:CE2	28:BE:16:ARG:HG3	2.31	0.66
1:AA:1085:U:H5'	1:AA:1094:G:H21	1.58	0.65
1:AA:1285:A:O2'	1:AA:1286:A:OP2	2.14	0.65
1:AA:1376:U:O2	1:AA:1377:A:N7	2.29	0.65
1:AA:1405:G:H1'	1:AA:1519:A:O4'	1.96	0.65
1:AA:454:C:H3'	1:AA:455:C:C6	2.32	0.65
1:AA:520:A:OP2	14:AO:51:ALA:HB1	1.96	0.65
1:AA:877:C:O2'	10:AK:3:THR:HG21	1.96	0.65
3:AC:34:G:C5	3:AC:35:A:N7	2.65	0.65
4:AE:69:LEU:HB2	4:AE:159:PRO:CB	2.27	0.65
4:AE:163:PHE:CD2	4:AE:164:VAL:N	2.64	0.65
4:AE:217:ARG:HG3	4:AE:217:ARG:HH11	1.61	0.65
4:AE:80:ILE:HG21	4:AE:211:ILE:HG21	1.78	0.65
4:AE:68:ILE:O	4:AE:90:MET:HB3	1.96	0.65
5:AF:52:LEU:HA	5:AF:70:VAL:CG2	2.23	0.65
6:AG:13:ARG:C	6:AG:40:PRO:HD3	2.17	0.65
6:AG:18:LYS:HE3	6:AG:33:MET:CB	2.27	0.65
7:AH:102:ALA:HB1	7:AH:106:PRO:CB	2.25	0.65
7:AH:142:LEU:N	7:AH:143:ARG:HE	1.94	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AH:18:ARG:N	7:AH:26:PHE:HB3	2.11	0.65
7:AH:43:LEU:HD23	7:AH:43:LEU:C	2.16	0.65
9:AJ:43:PHE:HD2	9:AJ:44:TYR:CE2	2.14	0.65
11:AL:26:VAL:HG13	11:AL:63:ILE:HD11	1.78	0.65
15:AP:96:LEU:H	15:AP:96:LEU:HD23	1.60	0.65
17:AR:34:LEU:HD12	17:AR:38:ARG:HE	1.61	0.65
19:AT:41:LYS:O	19:AT:42:TYR:CD1	2.49	0.65
1:AA:277:C:H5''	19:AT:68:ARG:NH1	2.11	0.65
21:AV:22:LEU:O	21:AV:25:LYS:NZ	2.29	0.65
49:B2:4:LEU:HD23	49:B2:5:LYS:N	2.10	0.65
49:B2:50:VAL:O	49:B2:52:HIS:ND1	2.29	0.65
50:B3:58:ARG:H	50:B3:61:ARG:NH1	1.94	0.65
24:BA:397:G:OP2	50:B3:59:PHE:HZ	1.79	0.65
52:B5:48:VAL:CG1	52:B5:49:HIS:H	2.03	0.65
53:B6:2:LYS:C	53:B6:4:THR:H	1.99	0.65
24:BA:1183:G:O3'	24:BA:1183:G:OP2	2.13	0.65
24:BA:1634:A:O2'	24:BA:1635:G:P	2.55	0.65
24:BA:1669:A:N3	24:BA:1669:A:H2'	2.11	0.65
24:BA:1703:G:O2'	24:BA:1704:G:H5'	1.95	0.65
24:BA:1799:G:N2	27:BD:157:ARG:HH22	1.93	0.65
24:BA:1851:U:N3	24:BA:1852:C:N4	2.43	0.65
1:AA:1517:G:C1'	24:BA:1920:C:OP1	2.44	0.65
24:BA:1266:G:O2'	24:BA:2012:G:N1	2.22	0.65
24:BA:2356:C:H3'	24:BA:2357:U:H5	1.61	0.65
24:BA:2371:G:N2	24:BA:2372:G:C6	2.64	0.65
24:BA:1028:A:H2	24:BA:2486:G:HO2'	1.35	0.65
24:BA:2546:U:C4'	24:BA:2565:A:C2	2.79	0.65
24:BA:1782:C:H42	24:BA:2587:A:H61	1.43	0.65
24:BA:2709:G:H2'	24:BA:2710:C:C5'	2.26	0.65
24:BA:2770:G:H8	24:BA:2770:G:O5'	1.79	0.65
24:BA:407:G:H2'	24:BA:408:G:C8	2.31	0.65
24:BA:703:U:H2'	24:BA:704:G:H1'	1.77	0.65
24:BA:728:G:C6	24:BA:762:U:H3'	2.30	0.65
24:BA:800:A:O2'	24:BA:801:G:C5'	2.44	0.65
24:BA:871:U:H2'	24:BA:872:A:C8	2.31	0.65
24:BA:973:A:O2'	24:BA:974:G:O5'	2.14	0.65
24:BA:977:G:H2'	24:BA:978:G:C4'	2.26	0.65
24:BA:997:G:OP1	41:BT:92:ARG:CD	2.43	0.65
25:BB:16:G:H2'	25:BB:17:C:C6	2.30	0.65
27:BD:17:THR:HG23	27:BD:18:VAL:HG23	1.78	0.65
27:BD:51:VAL:HB	27:BD:52:ARG:NH2	2.09	0.65
27:BD:55:GLY:HA2	27:BD:217:ARG:CZ	2.26	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1567:A:N1	27:BD:85:ASP:CA	2.60	0.65
28:BE:116:VAL:HG21	28:BE:138:PRO:CA	2.11	0.65
28:BE:13:ARG:HG3	28:BE:22:PRO:CG	2.25	0.65
28:BE:48:GLN:NE2	28:BE:48:GLN:N	2.44	0.65
24:BA:1257:C:H4'	29:BF:83:PHE:HD1	1.58	0.65
30:BG:17:PRO:CA	30:BG:20:ILE:HB	2.27	0.65
31:BH:126:PRO:HG3	31:BH:132:ARG:HH12	1.58	0.65
31:BH:52:VAL:HG11	31:BH:69:ARG:HB3	1.77	0.65
34:BM:39:ARG:HD3	34:BM:48:MET:HG2	1.78	0.65
34:BM:87:LEU:HD23	34:BM:88:GLU:H	1.60	0.65
35:BN:4:PRO:O	35:BN:6:THR:HG22	1.96	0.65
35:BN:94:ARG:CG	35:BN:95:GLY:N	2.53	0.65
36:BO:121:LYS:H	36:BO:137:LYS:HB2	1.59	0.65
24:BA:663:G:H4'	36:BO:18:ARG:CZ	2.25	0.65
36:BO:64:LYS:O	36:BO:64:LYS:HD2	1.97	0.65
24:BA:1244:G:H5'	36:BO:9:ASN:HB2	1.78	0.65
37:BP:85:LYS:HD2	37:BP:86:GLY:H	1.60	0.65
39:BR:62:LYS:HB2	39:BR:65:VAL:CG1	2.26	0.65
40:BS:57:PHE:C	40:BS:58:ASN:HD22	1.98	0.65
40:BS:95:ARG:HB3	40:BS:95:ARG:NH2	2.10	0.65
41:BT:81:HIS:HB3	41:BT:117:GLN:CD	2.16	0.65
41:BT:94:ASN:O	41:BT:95:LEU:C	2.34	0.65
42:BU:43:GLU:OE1	42:BU:43:GLU:O	2.13	0.65
42:BU:69:LYS:CG	42:BU:70:ILE:H	2.07	0.65
43:BV:8:ARG:CZ	43:BV:102:HIS:CE1	2.78	0.65
43:BV:11:ARG:N	43:BV:11:ARG:HH21	1.89	0.65
43:BV:36:LEU:HD11	43:BV:47:VAL:HB	1.77	0.65
45:BX:16:ALA:CB	45:BX:68:HIS:ND1	2.59	0.65
46:BY:98:MET:HE2	46:BY:100:VAL:HG12	1.78	0.65
46:BY:9:TYR:HB2	46:BY:14:LYS:CG	2.26	0.65
24:BA:855:G:H21	47:BZ:27:GLU:HB3	1.61	0.65
1:AA:1069:C:H1'	1:AA:1191:A:H2	1.60	0.65
1:AA:1266:G:H2'	1:AA:1268:A:OP2	1.96	0.65
1:AA:1308:U:H3'	15:AP:99:ARG:CZ	2.26	0.65
1:AA:1320:C:H5''	21:AV:70:LYS:HD2	1.77	0.65
1:AA:1430:C:O2'	1:AA:1431:C:O5'	2.14	0.65
1:AA:405:U:H3'	1:AA:406:G:H5'	1.77	0.65
1:AA:68:G:H2'	1:AA:69:G:O4'	1.97	0.65
1:AA:809:G:C2'	1:AA:810:C:H5'	2.27	0.65
1:AA:963:G:H2'	1:AA:964:A:H8	1.61	0.65
4:AE:72:GLY:HA2	4:AE:165:VAL:CG2	2.25	0.65
5:AF:15:THR:HB	5:AF:181:ASN:OD1	1.97	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:76:VAL:HG12	5:AF:77:ILE:N	2.11	0.65
6:AG:143:GLY:HA2	6:AG:185:PHE:CG	2.32	0.65
6:AG:12:CYS:HB3	6:AG:31:CYS:O	1.95	0.65
6:AG:52:SER:O	6:AG:54:TYR:N	2.29	0.65
1:AA:9:G:C5'	7:AH:126:ARG:HD3	2.17	0.65
9:AJ:5:ARG:HD2	9:AJ:7:ALA:N	2.09	0.65
10:AK:29:SER:O	10:AK:32:LYS:HG2	1.96	0.65
14:AO:42:THR:OG1	14:AO:52:LEU:HD12	1.96	0.65
14:AO:35:GLY:O	14:AO:82:VAL:HA	1.96	0.65
17:AR:3:ILE:HD12	17:AR:3:ILE:H	1.62	0.65
20:AU:52:PRO:HG2	20:AU:54:ARG:HB3	1.79	0.65
21:AV:51:VAL:HB	21:AV:58:VAL:CG2	2.25	0.65
23:AX:9:ARG:H	23:AX:9:ARG:HD2	1.61	0.65
50:B3:42:PHE:CG	50:B3:43:TYR:N	2.65	0.65
24:BA:1032:A:OP2	55:B8:8:LYS:HG3	1.96	0.65
24:BA:1422:G:H2'	24:BA:1423:G:H8	1.62	0.65
24:BA:1805:U:H2'	24:BA:1806:C:H6	1.60	0.65
24:BA:1806:C:C4	24:BA:1807:G:N7	2.64	0.65
24:BA:1882:C:H2'	24:BA:1883:G:H5'	1.78	0.65
24:BA:1935:G:H22	24:BA:1962:C:C2'	2.10	0.65
24:BA:204:A:OP1	24:BA:206:U:O2	2.13	0.65
24:BA:2305:A:N7	24:BA:2306:C:C6	2.64	0.65
24:BA:2049:G:C2	24:BA:2620:C:C2	2.84	0.65
24:BA:446:G:C8	24:BA:446:G:OP2	2.50	0.65
24:BA:692:C:O2'	24:BA:693:C:H5'	1.94	0.65
24:BA:71:A:H5''	24:BA:73:A:C8	2.30	0.65
24:BA:746:A:O2'	24:BA:747:U:OP2	2.12	0.65
24:BA:830:G:O2'	24:BA:831:G:OP1	2.11	0.65
24:BA:91:A:C2	24:BA:92:G:H5'	2.30	0.65
24:BA:93:C:H2'	24:BA:94:G:C8	2.32	0.65
25:BB:110:G:H2'	25:BB:111:U:O4'	1.95	0.65
28:BE:59:VAL:HB	28:BE:62:PRO:HD2	1.78	0.65
29:BF:140:LEU:O	29:BF:143:ALA:HB3	1.96	0.65
29:BF:74:ARG:NH1	29:BF:76:GLY:H	1.94	0.65
30:BG:19:LEU:O	30:BG:22:ARG:HG2	1.96	0.65
31:BH:25:LYS:NZ	31:BH:32:GLU:HB2	2.11	0.65
33:BL:91:PRO:HB3	33:BL:134:MET:C	2.16	0.65
35:BN:18:LYS:NZ	35:BN:44:LYS:NZ	2.44	0.65
35:BN:65:THR:O	35:BN:66:LYS:HB2	1.96	0.65
37:BP:109:VAL:HG11	37:BP:114:ALA:H	1.61	0.65
37:BP:22:LYS:HD2	37:BP:23:GLY:H	1.58	0.65
38:BQ:34:ILE:C	38:BQ:113:LEU:HD22	2.16	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BR:87:PHE:CG	39:BR:88:ASP:N	2.62	0.65
40:BS:3:ARG:O	40:BS:4:GLY:C	2.34	0.65
40:BS:64:ARG:NE	40:BS:77:PRO:CB	2.59	0.65
34:BM:4:TYR:O	41:BT:64:ARG:NH2	2.29	0.65
42:BU:12:TYR:CE1	42:BU:14:VAL:N	2.65	0.65
42:BU:20:LEU:O	42:BU:21:ARG:HG2	1.96	0.65
42:BU:78:LYS:HE2	42:BU:84:LYS:HG2	1.78	0.65
43:BV:75:TYR:O	43:BV:104:THR:O	2.14	0.65
44:BW:50:LYS:HG3	44:BW:85:PRO:CD	2.26	0.65
45:BX:6:HIS:HB3	45:BX:71:LYS:HG2	1.79	0.65
24:BA:2142:C:H2'	24:BA:2143:C:H6	1.56	0.65
26:BC:20:TYR:HE1	26:BC:222:VAL:HG22	1.60	0.65
24:BA:1485:G:H2'	24:BA:1486:A:C8	2.31	0.65
1:AA:160:A:C1'	1:AA:344:A:N7	2.59	0.65
33:BL:14:ALA:HB3	33:BL:49:GLY:CA	2.24	0.65
3:AD:66:U:C2	3:AD:67:C:C5	2.85	0.65
1:AA:1239:A:H62	1:AA:1299:A:H61	1.43	0.65
1:AA:286:G:C4	1:AA:287:U:C6	2.84	0.65
1:AA:380:G:H21	1:AA:382:A:H3'	1.60	0.65
1:AA:486:U:C2'	1:AA:487:A:O5'	2.44	0.65
1:AA:767:A:N6	1:AA:768:A:C6	2.64	0.65
1:AA:867:G:H2'	1:AA:868:C:C5	2.31	0.65
1:AA:978:A:O2'	1:AA:979:C:H5'	1.96	0.65
3:AB:22:G:OP2	3:AB:22:G:H8	1.79	0.65
4:AE:126:GLU:O	4:AE:129:GLU:HB2	1.96	0.65
4:AE:91:PRO:HG2	4:AE:155:LEU:HD23	1.78	0.65
5:AF:136:GLN:O	5:AF:139:GLN:HB2	1.96	0.65
6:AG:121:VAL:HG11	6:AG:136:PRO:HA	1.79	0.65
6:AG:67:ILE:HD12	6:AG:67:ILE:C	2.17	0.65
6:AG:93:PHE:CA	6:AG:96:LEU:HD12	2.21	0.65
9:AJ:143:ARG:HD3	9:AJ:144:MET:N	2.10	0.65
1:AA:1060:C:H4'	12:AM:52:GLY:CA	2.26	0.65
12:AM:11:PHE:HZ	12:AM:65:LEU:HG	1.62	0.65
13:AN:126:ARG:HH11	13:AN:126:ARG:HB3	1.60	0.65
18:AS:49:LEU:HD11	18:AS:51:VAL:CG2	2.20	0.65
19:AT:29:HIS:CE1	19:AT:31:LEU:N	2.64	0.65
21:AV:45:VAL:HA	21:AV:67:VAL:CG2	2.26	0.65
24:BA:931:G:H21	49:B2:25:ALA:N	1.94	0.65
36:BO:56:SER:CB	54:B7:13:ARG:CZ	2.72	0.65
54:B7:55:ALA:N	54:B7:56:GLU:OE2	2.29	0.65
24:BA:1033:U:C5'	55:B8:16:VAL:HG11	2.26	0.65
24:BA:1033:U:H5'	55:B8:16:VAL:HG11	1.78	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1212:G:C6	24:BA:1236:G:O6	2.49	0.65
24:BA:1308:A:N3	24:BA:1309:G:H1'	2.11	0.65
24:BA:1406:U:C2	24:BA:1407:C:C5	2.84	0.65
24:BA:150:C:O2'	24:BA:151:C:H5'	1.95	0.65
24:BA:1814:G:H5''	24:BA:1815:A:OP2	1.96	0.65
24:BA:1934:C:N3	24:BA:1967:C:N4	2.44	0.65
24:BA:1992:G:C1'	24:BA:1993:U:C5	2.80	0.65
24:BA:200:U:H3'	24:BA:201:C:C5'	2.27	0.65
24:BA:2075:U:C5	24:BA:2435:A:C2	2.84	0.65
24:BA:2210:G:H4'	24:BA:2211:G:H5'	1.78	0.65
24:BA:2246:G:N3	24:BA:2247:A:N7	2.44	0.65
24:BA:2349:G:H3'	24:BA:2350:C:C5'	2.24	0.65
24:BA:2329:G:N1	24:BA:2386:C:N4	2.39	0.65
24:BA:2396:G:C6	24:BA:2421:G:O6	2.50	0.65
24:BA:2690:C:C6	24:BA:2690:C:C3'	2.78	0.65
24:BA:296:C:C6	24:BA:338:G:N2	2.64	0.65
24:BA:389:G:N1	36:BO:64:LYS:HG2	2.11	0.65
24:BA:266:G:N2	24:BA:427:U:H3	1.94	0.65
24:BA:501:A:C6	24:BA:502:A:N1	2.63	0.65
24:BA:654:A:H2'	24:BA:654:A:N3	2.10	0.65
24:BA:735:A:H2'	24:BA:736:C:H5'	1.78	0.65
24:BA:826:U:C5'	24:BA:2428:G:O3'	2.43	0.65
24:BA:60:G:O6	24:BA:88:G:O6	2.15	0.65
25:BB:39:A:H2	25:BB:44:G:OP2	1.79	0.65
24:BA:1789:A:H2'	27:BD:213:ARG:HH22	1.61	0.65
28:BE:198:VAL:CG1	28:BE:200:GLU:OE2	2.42	0.65
28:BE:49:LEU:CD1	28:BE:74:PRO:HB2	2.22	0.65
29:BF:131:GLY:O	29:BF:133:ASN:N	2.29	0.65
30:BG:177:GLY:O	30:BG:178:PHE:HB3	1.96	0.65
31:BH:4:ILE:HD12	31:BH:4:ILE:N	2.12	0.65
31:BH:85:LYS:HE2	31:BH:142:GLY:HA2	1.77	0.65
32:BK:32:PRO:CD	32:BK:33:ARG:H	2.07	0.65
33:BL:71:THR:CG2	33:BL:114:ASP:HB3	2.26	0.65
24:BA:2780:G:N2	34:BM:97:ARG:HH22	1.94	0.65
37:BP:59:ARG:HA	37:BP:60:ARG:CZ	2.27	0.65
37:BP:58:PHE:C	37:BP:60:ARG:H	1.98	0.65
42:BU:14:VAL:HG11	42:BU:19:LYS:CG	2.15	0.65
42:BU:78:LYS:HA	42:BU:83:ARG:O	1.96	0.65
43:BV:6:ILE:CD1	43:BV:104:THR:HA	2.27	0.65
43:BV:10:VAL:HB	43:BV:12:ILE:HD11	1.78	0.65
45:BX:46:LYS:HG3	45:BX:58:GLY:N	2.10	0.65
46:BY:96:VAL:HG13	46:BY:128:VAL:CG2	2.25	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:71:VAL:HG22	46:BY:88:PHE:CE2	2.31	0.65
32:BK:132:PRO:CD	32:BK:138:ILE:H	2.09	0.65
32:BK:57:ARG:O	32:BK:61:ARG:HG2	1.96	0.65
32:BK:93:THR:O	32:BK:96:ASP:N	2.29	0.65
26:BC:182:PRO:HG2	26:BC:183:GLU:CD	2.16	0.65
24:BA:1579:A:C8	24:BA:1580:A:N3	2.64	0.65
39:BR:33:LYS:CE	39:BR:54:LEU:HD21	2.27	0.65
1:AA:1085:U:OP2	1:AA:1086:U:O4	2.15	0.65
1:AA:1108:G:H4'	1:AA:1191:A:H1'	1.79	0.65
1:AA:1185:G:O2'	1:AA:1186:G:H5'	1.95	0.65
1:AA:1219:U:P	16:AQ:19:ARG:HH22	2.19	0.65
1:AA:127:G:H2'	1:AA:128:G:H5'	1.79	0.65
1:AA:1299:A:N7	1:AA:1301:U:C6	2.64	0.65
1:AA:556:C:O2'	1:AA:557:G:H5'	1.96	0.65
1:AA:719:C:OP2	1:AA:720:C:N4	2.30	0.65
1:AA:781:A:O2'	1:AA:782:A:H5'	1.95	0.65
1:AA:940:C:H2'	1:AA:941:G:H8	1.60	0.65
1:AA:945:G:H1'	1:AA:1337:G:O2'	1.96	0.65
3:AC:76:A:H3'	3:AC:76:A:H8	1.61	0.65
5:AF:44:GLU:HA	5:AF:52:LEU:HD11	1.78	0.65
7:AH:17:ALA:HA	7:AH:26:PHE:CB	2.27	0.65
8:AI:30:LEU:HD23	8:AI:75:LEU:HD13	1.78	0.65
12:AM:89:ASP:O	12:AM:90:LEU:HG	1.95	0.65
13:AN:62:GLN:OE1	13:AN:63:LEU:HB2	1.95	0.65
14:AO:33:ARG:O	14:AO:85:ILE:HG22	1.96	0.65
18:AS:26:ARG:O	18:AS:27:LYS:O	2.13	0.65
18:AS:42:ARG:O	18:AS:43:LYS:HB2	1.96	0.65
19:AT:60:ILE:HD13	19:AT:62:SER:OG	1.95	0.65
22:AW:88:VAL:HG12	22:AW:92:LEU:CD1	2.26	0.65
54:B7:14:VAL:HG12	54:B7:14:VAL:O	1.96	0.65
24:BA:1086:A:H3'	24:BA:1087:G:C5'	2.24	0.65
24:BA:71:A:H62	24:BA:114:U:H1'	1.60	0.65
24:BA:1277:G:O2'	24:BA:1278:A:H5'	1.95	0.65
24:BA:1472:A:C1'	24:BA:1473:G:N7	2.58	0.65
24:BA:1500:G:H2'	24:BA:1501:C:H6	1.60	0.65
24:BA:1633:G:C8	24:BA:1635:G:O6	2.49	0.65
24:BA:1993:U:H3'	24:BA:1993:U:H6	1.61	0.65
24:BA:2324:C:O2	24:BA:2385:C:H5	1.78	0.65
24:BA:412:A:N6	24:BA:2411:A:H1'	2.12	0.65
24:BA:2453:A:O2'	24:BA:2454:G:C5'	2.42	0.65
24:BA:1954:G:N3	24:BA:2551:C:H5'	2.11	0.65
24:BA:25:U:C2	24:BA:26:G:C8	2.85	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2654:A:C4	24:BA:2665:A:N6	2.64	0.65
24:BA:2678:C:C2	24:BA:2679:A:C8	2.83	0.65
24:BA:271(B):G:H5''	24:BA:271(C):U:C4'	2.26	0.65
24:BA:58:G:H2'	24:BA:73:A:H2	1.59	0.65
24:BA:74:A:N1	48:B1:46:ARG:HD2	2.12	0.65
24:BA:763:G:C2	24:BA:765:G:C4	2.85	0.65
24:BA:827:U:C6	24:BA:2430:A:C2	2.85	0.65
24:BA:865:C:O2	24:BA:865:C:H2'	1.95	0.65
24:BA:976:C:O2	24:BA:977:G:H8	1.79	0.65
25:BB:69:G:H5''	25:BB:70:C:OP2	1.95	0.65
27:BD:202:LYS:CD	27:BD:202:LYS:H	2.05	0.65
28:BE:128:SER:C	28:BE:130:GLY:H	1.98	0.65
28:BE:59:VAL:CB	28:BE:62:PRO:HD2	2.26	0.65
31:BH:18:GLU:OE1	31:BH:25:LYS:HG2	1.97	0.65
31:BH:52:VAL:HG22	31:BH:65:HIS:CE1	2.32	0.65
31:BH:7:LEU:N	31:BH:8:PRO:CD	2.57	0.65
36:BO:45:LEU:HD22	54:B7:59:LYS:CG	2.26	0.65
36:BO:81:GLN:HG2	36:BO:86:LYS:CE	2.27	0.65
40:BS:53:ARG:HH21	40:BS:102:ILE:HD13	1.61	0.65
41:BT:80:ILE:O	41:BT:84:LYS:HG2	1.95	0.65
42:BU:4:ILE:HG13	42:BU:13:ARG:HG2	1.76	0.65
42:BU:68:LYS:O	42:BU:69:LYS:CB	2.42	0.65
45:BX:49:VAL:HB	45:BX:51:VAL:H	1.61	0.65
46:BY:49:ARG:O	46:BY:50:GLN:C	2.34	0.65
46:BY:57:ILE:HD11	46:BY:70:LEU:HG	1.78	0.65
47:BZ:22:GLY:O	47:BZ:38:VAL:HG13	1.95	0.65
32:BK:87:LYS:HE3	32:BK:122:GLU:CD	2.17	0.65
3:AD:15:G:N1	3:AD:48:C:N4	2.45	0.65
3:AD:18:G:C2'	3:AD:19:G:O5'	2.44	0.65
26:BC:89:ALA:HB1	26:BC:154:ARG:CB	2.27	0.65
48:B1:8:ALA:O	48:B1:9:ARG:C	2.35	0.65
32:BK:19:VAL:CG1	32:BK:20:ASP:H	2.10	0.65
1:AA:1113:C:O2'	1:AA:1114:C:H5'	1.95	0.65
1:AA:1226:C:O2'	1:AA:1227:A:OP1	2.13	0.65
1:AA:1239:A:C2	1:AA:1298:C:C5	2.83	0.65
1:AA:1409:C:C2	1:AA:1410:G:C8	2.85	0.65
1:AA:543:C:P	6:AG:10:ARG:HH22	2.19	0.65
1:AA:551:U:H2'	1:AA:552:U:H6	1.53	0.65
1:AA:611:A:N1	1:AA:629:G:N2	2.37	0.65
1:AA:827:U:H5'	10:AK:16:ALA:HA	1.78	0.65
1:AA:878:G:H2'	1:AA:879:C:C6	2.31	0.65
1:AA:931:C:H2'	1:AA:932:C:C5	2.31	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:981:U:H6	1:AA:981:U:O5'	1.79	0.65
4:AE:130:ARG:CB	4:AE:131:PRO:HD2	2.23	0.65
4:AE:136:VAL:HA	4:AE:139:LYS:HZ3	1.60	0.65
8:AI:33:TYR:CE2	8:AI:74:ASP:HB2	2.32	0.65
8:AI:75:LEU:O	8:AI:79:LEU:HG	1.97	0.65
1:AA:597:G:N2	10:AK:94:TYR:CE2	2.57	0.65
13:AN:31:THR:HG23	13:AN:41:THR:O	1.97	0.65
15:AP:34:LEU:HD23	15:AP:39:ILE:CG1	2.26	0.65
15:AP:15:VAL:HG11	15:AP:39:ILE:HD12	1.76	0.65
17:AR:6:GLU:HG2	17:AR:7:GLU:HG3	1.78	0.65
21:AV:39:THR:O	21:AV:40:ILE:O	2.14	0.65
1:AA:191:G:O2'	22:AW:102:GLY:HA2	1.97	0.65
50:B3:41:PRO:HD2	50:B3:57:GLU:OE1	1.96	0.65
53:B6:32:LYS:N	53:B6:35:ARG:HD3	2.11	0.65
24:BA:1407:C:O2'	24:BA:1408:C:H5'	1.97	0.65
24:BA:1779:U:H3'	24:BA:1779:U:C6	2.31	0.65
24:BA:1813:G:H21	27:BD:52:ARG:NH1	1.94	0.65
24:BA:1955:U:P	24:BA:1956:U:O4	2.55	0.65
24:BA:2305:A:H1'	30:BG:154:GLY:C	2.17	0.65
24:BA:2416:C:C2'	24:BA:2417:C:C5'	2.66	0.65
24:BA:2491:U:N1	24:BA:2492:U:H5'	2.10	0.65
24:BA:2550:G:H2'	24:BA:2551:C:H6	1.62	0.65
24:BA:270(J):G:C6	24:BA:270(K):C:N3	2.64	0.65
24:BA:2808:U:H3'	24:BA:2809:A:H5''	1.78	0.65
24:BA:286:C:H2'	24:BA:287:C:C6	2.32	0.65
24:BA:292:C:H6	24:BA:293:U:O4	1.80	0.65
24:BA:330:A:O2'	24:BA:1210:A:N6	2.30	0.65
24:BA:388:G:H1'	24:BA:390:A:H62	1.62	0.65
24:BA:472:A:H2'	24:BA:473:G:H5'	1.78	0.65
24:BA:783:A:N1	24:BA:785:G:O4'	2.30	0.65
24:BA:878:A:N3	24:BA:878:A:H2'	2.11	0.65
25:BB:82:G:N3	25:BB:83:G:C8	2.63	0.65
27:BD:159:ALA:O	27:BD:196:VAL:HG21	1.95	0.65
27:BD:54:ARG:CB	27:BD:218:ARG:HD2	2.27	0.65
24:BA:1789:A:O4'	27:BD:222:ARG:NH2	2.29	0.65
27:BD:84:TYR:CG	27:BD:91:ARG:HG3	2.31	0.65
28:BE:104:VAL:CG2	28:BE:198:VAL:HG22	2.27	0.65
28:BE:51:PHE:CZ	28:BE:53:PRO:HD3	2.32	0.65
29:BF:118:ALA:HB1	29:BF:122:LYS:HB2	1.79	0.65
29:BF:11:VAL:CG1	29:BF:127:GLU:HB2	2.24	0.65
29:BF:132:VAL:CG2	29:BF:135:LYS:HB2	2.27	0.65
29:BF:131:GLY:CA	29:BF:138:GLU:HB2	2.26	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:BG:131:TYR:CD1	30:BG:158:ALA:HA	2.32	0.65
34:BM:16:ILE:HD12	34:BM:53:VAL:O	1.96	0.65
35:BN:103:ALA:HB1	35:BN:107:ARG:CD	2.26	0.65
35:BN:84:ALA:CB	35:BN:114:ILE:HD11	2.26	0.65
36:BO:126:VAL:HA	36:BO:145:PRO:HA	1.78	0.65
38:BQ:49:ASP:O	38:BQ:52:ILE:HG22	1.96	0.65
38:BQ:79:LEU:HD23	38:BQ:80:PHE:H	1.60	0.65
39:BR:24:LEU:O	39:BR:86:ALA:HB1	1.96	0.65
39:BR:10:ARG:HH11	39:BR:89:ARG:HH12	1.44	0.65
40:BS:20:PRO:HA	40:BS:22:PHE:CZ	2.31	0.65
40:BS:34:VAL:HG23	40:BS:36:GLU:HB2	1.78	0.65
3:AD:17:C:H5'	3:AD:18:G:O5'	1.95	0.65
26:BC:60:GLY:O	26:BC:61:THR:HB	1.95	0.65
1:AA:344:A:O2'	1:AA:345:C:P	2.54	0.65
1:AA:1097:C:O2'	1:AA:1098:C:H5'	1.97	0.65
3:AB:6:G:O2'	3:AB:7:A:H5'	1.97	0.65
1:AA:1148:U:O2'	1:AA:1149:C:H5'	1.96	0.65
1:AA:976:G:C6	1:AA:1362:C:C4	2.84	0.65
1:AA:1409:C:O2	1:AA:1410:G:C8	2.49	0.65
1:AA:236:G:H2'	1:AA:237:C:C6	2.31	0.65
1:AA:451:A:H61	1:AA:480:U:H2'	1.60	0.65
4:AE:102:LEU:H	4:AE:102:LEU:HD13	1.58	0.65
4:AE:55:PHE:HE2	4:AE:218:ALA:HA	1.60	0.65
5:AF:39:ILE:HG22	5:AF:40:ARG:N	2.11	0.65
6:AG:116:GLN:O	6:AG:119:GLN:HB3	1.97	0.65
6:AG:12:CYS:HA	6:AG:19:LEU:CB	2.21	0.65
7:AH:133:TYR:CD2	7:AH:136:MET:HG3	2.32	0.65
7:AH:31:LEU:HD12	7:AH:129:ILE:HA	1.77	0.65
7:AH:78:HIS:H	7:AH:78:HIS:HD2	1.40	0.65
10:AK:97:VAL:HG13	10:AK:98:LYS:NZ	2.11	0.65
13:AN:14:VAL:O	13:AN:16:SER:N	2.30	0.65
13:AN:66:LEU:O	13:AN:69:ALA:HB3	1.97	0.65
1:AA:1230:C:O2'	15:AP:126:LYS:HE2	1.96	0.65
15:AP:15:VAL:O	15:AP:18:ALA:HB3	1.97	0.65
24:BA:2230:G:H1'	50:B3:58:ARG:NH2	2.12	0.65
53:B6:8:ASN:HD21	53:B6:10:ARG:HB2	1.62	0.65
54:B7:25:MET:O	54:B7:26:LYS:C	2.35	0.65
54:B7:10:ALA:HB1	54:B7:64:TYR:CD2	2.32	0.65
24:BA:1044:G:O2'	24:BA:1047:G:N3	2.30	0.65
24:BA:1045:A:O2'	24:BA:1047:G:O4'	2.14	0.65
24:BA:1108:U:C5	24:BA:1109:C:C4	2.84	0.65
24:BA:1312:U:H3	24:BA:1604:C:H41	1.44	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1650:G:H5'	38:BQ:104:ARG:NH2	2.12	0.65
24:BA:1949:G:N2	24:BA:1958:C:C2	2.65	0.65
24:BA:221:A:H8	24:BA:221:A:H3'	1.61	0.65
24:BA:247:G:N2	24:BA:249:C:HO2'	1.94	0.65
24:BA:257:A:C2	24:BA:258:G:H1'	2.32	0.65
24:BA:2585:U:H6	24:BA:2585:U:OP1	1.80	0.65
24:BA:2653:U:N3	24:BA:2654:A:N6	2.44	0.65
24:BA:2820:A:C2'	24:BA:2821:A:OP1	2.44	0.65
24:BA:2807:G:O6	24:BA:2893:G:N7	2.30	0.65
24:BA:411:G:N3	24:BA:2408:U:O4	2.28	0.65
24:BA:603:A:N6	36:BO:104:GLY:HA2	2.11	0.65
24:BA:76:C:O2'	48:B1:54:ARG:HA	1.96	0.65
24:BA:780:G:H2'	24:BA:782:A:C8	2.31	0.65
24:BA:815:C:C2'	24:BA:816:C:H5'	2.27	0.65
24:BA:838:C:H2'	24:BA:839:U:C6	2.31	0.65
24:BA:975:G:C8	24:BA:990:A:N6	2.65	0.65
27:BD:121:PRO:O	27:BD:122:ASP:HB3	1.97	0.65
27:BD:134:ARG:HA	27:BD:168:ARG:CZ	2.27	0.65
27:BD:27:THR:C	27:BD:29:PRO:HD2	2.17	0.65
24:BA:673:C:H5''	29:BF:81:PRO:CG	2.27	0.65
30:BG:8:LYS:HZ3	30:BG:103:LEU:HG	1.60	0.65
30:BG:44:GLY:C	30:BG:72:ARG:HB3	2.17	0.65
30:BG:75:LYS:HB3	30:BG:84:LYS:CB	2.27	0.65
30:BG:75:LYS:CG	30:BG:85:GLY:H	2.10	0.65
33:BL:55:VAL:HG22	33:BL:69:THR:HG22	1.79	0.65
24:BA:1076:C:H4'	33:BL:93:ARG:CZ	2.26	0.65
35:BN:25:LEU:HD13	35:BN:38:VAL:HB	1.79	0.65
35:BN:96:THR:O	35:BN:97:ARG:CB	2.45	0.65
36:BO:29:LYS:HD2	36:BO:29:LYS:N	2.11	0.65
37:BP:8:LYS:HZ3	37:BP:11:LYS:CE	2.08	0.65
40:BS:53:ARG:NH2	40:BS:101:PHE:N	2.43	0.65
24:BA:445:C:H5''	41:BT:3:ARG:CG	2.27	0.65
43:BV:19:LEU:O	43:BV:22:ASP:HB2	1.97	0.65
38:BQ:103:ARG:HD2	43:BV:40:ASN:HB2	1.78	0.65
43:BV:1:MET:H2	43:BV:4:LYS:HD3	1.61	0.65
43:BV:25:ARG:HD3	43:BV:74:ALA:CB	2.26	0.65
43:BV:74:ALA:O	43:BV:75:TYR:CG	2.50	0.65
45:BX:1:MET:HA	45:BX:33:LYS:HE3	1.78	0.65
45:BX:47:LYS:HB2	45:BX:49:VAL:HG13	1.79	0.65
32:BK:113:ARG:HD3	32:BK:131:LYS:O	1.96	0.65
26:BC:200:LYS:NZ	26:BC:204:ALA:HB3	2.10	0.65
24:BA:1482:U:O2'	24:BA:1512:G:N2	2.30	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:772:U:H2'	1:AA:773:G:H8	1.61	0.65
24:BA:1414:G:C6	24:BA:1415:U:C4	2.85	0.65
1:AA:1021:G:H2'	1:AA:1022:G:C1'	2.27	0.65
1:AA:1054:C:H6	1:AA:1054:C:H3'	1.62	0.65
1:AA:1251:A:H61	1:AA:1285:A:H2	1.43	0.65
1:AA:1357:A:C5	1:AA:1358:U:C4	2.84	0.65
1:AA:1405:G:H2'	1:AA:1406:U:C6	2.31	0.65
1:AA:328:C:O2'	1:AA:329:A:P	2.55	0.65
1:AA:865:A:H2'	1:AA:866:C:O4'	1.97	0.65
3:AC:7:A:O2'	3:AC:8:U:P	2.54	0.65
4:AE:103:THR:O	4:AE:104:ASN:HB3	1.95	0.65
5:AF:28:GLN:N	5:AF:30:ARG:NE	2.44	0.65
5:AF:8:ILE:HD13	16:AQ:50:LYS:O	1.97	0.65
6:AG:146:ILE:N	6:AG:146:ILE:HD12	2.10	0.65
7:AH:12:LEU:O	7:AH:30:ALA:HA	1.97	0.65
7:AH:17:ALA:HA	7:AH:26:PHE:HD2	1.61	0.65
8:AI:1:MET:HG2	8:AI:68:PRO:HA	1.78	0.65
9:AJ:6:ARG:N	9:AJ:6:ARG:CZ	2.60	0.65
10:AK:100:ILE:HD13	10:AK:125:ARG:HE	1.60	0.65
10:AK:32:LYS:HZ1	10:AK:32:LYS:H	1.45	0.65
12:AM:34:VAL:CG1	12:AM:35:SER:H	2.06	0.65
12:AM:76:ASN:C	12:AM:78:ASN:H	1.98	0.65
15:AP:99:ARG:HH11	15:AP:99:ARG:HG3	1.60	0.65
17:AR:42:HIS:CE1	17:AR:43:LEU:HA	2.32	0.65
20:AU:29:PHE:CD2	20:AU:39:VAL:HG11	2.32	0.65
21:AV:74:PHE:N	21:AV:74:PHE:CD1	2.64	0.65
49:B2:4:LEU:O	49:B2:37:LEU:CB	2.43	0.65
52:B5:49:HIS:O	52:B5:50:ARG:HB2	1.94	0.65
24:BA:1078:U:O2	24:BA:1088:A:H1'	1.96	0.65
24:BA:1092:C:C6	24:BA:1092:C:H3'	2.31	0.65
24:BA:1203:G:C4	24:BA:1241:A:C8	2.81	0.65
24:BA:1341:U:H2'	44:BW:55:ASN:HB3	1.79	0.65
24:BA:1307:A:O3'	24:BA:1379:A:N6	2.29	0.65
24:BA:1433:U:O2	24:BA:1561:G:C2	2.50	0.65
24:BA:1630:G:H2'	24:BA:1630(A):C:H6	1.61	0.65
24:BA:1692:U:C1'	24:BA:1696:G:N2	2.60	0.65
24:BA:1771:C:H2'	24:BA:1772:G:H8	1.61	0.65
24:BA:1838:C:H2'	24:BA:1838:C:O2	1.95	0.65
24:BA:2052:G:N3	28:BE:150:VAL:HB	2.12	0.65
24:BA:2075:U:O4	24:BA:2077:A:N7	2.29	0.65
24:BA:2531:A:H2'	24:BA:2532:G:O5'	1.96	0.65
24:BA:2587:A:O2'	24:BA:2588:G:H5'	1.96	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2661:G:C5	24:BA:2662:A:N7	2.65	0.65
24:BA:2668:G:O2'	24:BA:2669:G:H5'	1.96	0.65
24:BA:2681:C:H5	24:BA:2727:G:C2	2.14	0.65
24:BA:270(A):A:H3'	24:BA:366:C:O2'	1.97	0.65
24:BA:2543:G:N2	24:BA:2765:A:C4	2.65	0.65
24:BA:280:C:OP2	24:BA:280:C:C6	2.41	0.65
24:BA:308:G:N2	24:BA:329:G:H2'	2.12	0.65
24:BA:586:A:C6	24:BA:1254:A:H2	2.15	0.65
24:BA:72:U:H2'	24:BA:73:A:OP1	1.97	0.65
24:BA:756:C:H2'	24:BA:757:U:C5'	2.27	0.65
24:BA:807:U:O4'	24:BA:2445:G:H4'	1.97	0.65
24:BA:807:U:HO2'	24:BA:808:G:H5'	1.61	0.65
27:BD:54:ARG:HB3	27:BD:218:ARG:HD2	1.79	0.65
27:BD:63:ARG:HD2	27:BD:85:ASP:HB3	1.79	0.65
30:BG:18:GLU:OE1	30:BG:22:ARG:NH1	2.30	0.65
30:BG:94:LEU:HB2	30:BG:99:MET:CE	2.25	0.65
31:BH:122:THR:O	31:BH:133:VAL:HG23	1.97	0.65
31:BH:88:LEU:HD23	31:BH:88:LEU:C	2.16	0.65
32:BK:15:VAL:CG1	32:BK:16:GLY:H	2.10	0.65
32:BK:4:ILE:HG12	32:BK:37:VAL:O	1.96	0.65
24:BA:270(P):C:OP2	32:BK:45:LYS:HD3	1.97	0.65
34:BM:104:LYS:HA	34:BM:117:PHE:CE2	2.31	0.65
34:BM:34:LEU:CD2	34:BM:116:LEU:HD21	2.27	0.65
35:BN:15:GLY:CA	35:BN:47:ILE:HB	2.26	0.65
35:BN:85:VAL:HB	35:BN:93:PRO:HG3	1.79	0.65
35:BN:97:ARG:HD3	35:BN:118:ALA:HB2	1.78	0.65
36:BO:96:THR:C	36:BO:102:ARG:HD3	2.17	0.65
36:BO:113:LYS:HA	36:BO:129:ALA:HB3	1.79	0.65
24:BA:671:C:OP1	36:BO:38:GLN:O	2.14	0.65
36:BO:56:SER:HB3	54:B7:13:ARG:NE	2.10	0.65
36:BO:76:LYS:HZ2	36:BO:99:LEU:CD1	2.10	0.65
38:BQ:75:LEU:O	38:BQ:78:LYS:N	2.30	0.65
40:BS:56:GLY:O	40:BS:61:PHE:HA	1.97	0.65
42:BU:15:GLU:HB3	42:BU:16:PRO:HD2	1.78	0.65
42:BU:43:GLU:H	42:BU:44:LYS:CE	2.10	0.65
43:BV:6:ILE:HG12	43:BV:103:ILE:O	1.96	0.65
43:BV:68:ARG:HG3	43:BV:109:GLU:OE2	1.97	0.65
44:BW:54:VAL:C	44:BW:55:ASN:HD22	1.99	0.65
45:BX:74:PRO:HG2	45:BX:100:ALA:HB3	1.79	0.65
45:BX:98:VAL:N	45:BX:101:LYS:HE3	2.12	0.65
24:BA:2114:A:N3	24:BA:2168:G:H5'	2.12	0.65
1:AA:1115:C:H2'	1:AA:1116:C:H6	1.61	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1320:C:C5	21:AV:37:ARG:CZ	2.80	0.65
1:AA:1366:C:O2'	1:AA:1367:C:H5'	1.96	0.65
1:AA:1399:C:O2'	1:AA:1400:C:OP2	2.15	0.65
1:AA:391:G:OP1	18:AS:28:ARG:NH2	2.30	0.65
1:AA:522:C:N4	1:AA:523:A:C6	2.65	0.65
1:AA:656:C:C2'	1:AA:657:G:H5'	2.27	0.65
1:AA:969:A:O2'	12:AM:55:LYS:NZ	2.25	0.65
3:AB:76:A:C4'	24:BA:2507:C:H4'	2.27	0.65
3:AC:8:U:H3	3:AC:14:A:H62	1.44	0.65
4:AE:171:ALA:O	4:AE:174:VAL:N	2.30	0.65
4:AE:97:TRP:HH2	4:AE:176:GLU:CG	2.09	0.65
6:AG:124:GLY:O	6:AG:126:ILE:HG12	1.96	0.65
1:AA:409:G:H5'	6:AG:24:GLU:HB3	1.79	0.65
10:AK:44:PHE:HE2	10:AK:109:ILE:HD13	1.62	0.65
10:AK:40:ALA:N	10:AK:45:ILE:HG23	2.11	0.65
10:AK:33:GLU:HG2	10:AK:59:LEU:CD1	2.24	0.65
13:AN:48:ILE:CG2	13:AN:63:LEU:HD13	2.25	0.65
1:AA:1227:A:C8	15:AP:117:VAL:CG2	2.79	0.65
1:AA:1329:A:H5'	15:AP:29:ARG:CZ	2.27	0.65
16:AQ:42:ILE:HA	16:AQ:45:ARG:HG2	1.79	0.65
16:AQ:52:GLN:O	16:AQ:53:LEU:HD23	1.96	0.65
48:B1:20:VAL:HG23	48:B1:55:LEU:HD23	1.79	0.65
48:B1:38:GLN:O	48:B1:41:GLN:HB2	1.97	0.65
49:B2:4:LEU:HD21	49:B2:56:VAL:CG2	2.24	0.65
24:BA:1059:G:C6	24:BA:1060:U:H1'	2.32	0.65
24:BA:1166:C:O2	24:BA:1184:G:N2	2.29	0.65
24:BA:974:G:N2	24:BA:1187:G:C6	2.65	0.65
24:BA:1238:G:C2	24:BA:1239:G:C4	2.85	0.65
24:BA:1398:C:H2'	24:BA:1399:C:C6	2.32	0.65
24:BA:1519:G:C3'	24:BA:1520:U:O4'	2.45	0.65
24:BA:1519:G:H3'	24:BA:1520:U:C2	2.31	0.65
24:BA:1520:U:C3'	24:BA:1521:G:H5''	2.26	0.65
24:BA:1543:A:O5'	24:BA:1544:C:H5''	1.97	0.65
24:BA:1623:G:C2	24:BA:1624:G:C8	2.85	0.65
24:BA:1670:C:OP1	24:BA:1671:U:OP2	2.13	0.65
24:BA:1703:G:N2	24:BA:1704:G:H1'	2.11	0.65
24:BA:176:G:C2'	24:BA:177:G:O4'	2.42	0.65
24:BA:1914:C:H2'	24:BA:1914:C:O2	1.97	0.65
24:BA:1947:C:C2	24:BA:1948:G:C8	2.85	0.65
24:BA:1834:U:O2'	24:BA:1969:A:C2	2.50	0.65
3:AB:63:G:O2'	24:BA:2482:G:C4'	2.41	0.65
24:BA:2567:G:C6	24:BA:2568:C:N4	2.64	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2569:G:N1	24:BA:2570:G:N7	2.45	0.65
24:BA:2075:U:O4'	24:BA:2597:G:N2	2.29	0.65
24:BA:2619:C:C2'	24:BA:2620:C:O5'	2.43	0.65
24:BA:2636:U:H4'	28:BE:79:ARG:CD	2.27	0.65
24:BA:2779:U:C5'	24:BA:2780:G:H3'	2.27	0.65
24:BA:784:A:OP1	24:BA:2588:G:C5'	2.44	0.65
24:BA:800:A:O2'	24:BA:801:G:P	2.55	0.65
25:BB:105:G:H4'	46:BY:32:HIS:CE1	2.31	0.65
27:BD:55:GLY:H	27:BD:218:ARG:CD	2.09	0.65
27:BD:46:GLN:C	27:BD:48:ARG:H	1.98	0.65
24:BA:2635:C:O3'	28:BE:78:LEU:HD12	1.96	0.65
30:BG:103:LEU:HD21	30:BG:176:LEU:HD11	1.78	0.65
30:BG:75:LYS:HB3	30:BG:84:LYS:CA	2.27	0.65
33:BL:19:PRO:CB	33:BL:22:PRO:HG2	2.26	0.65
34:BM:14:VAL:HG22	34:BM:138:LEU:HD13	1.78	0.65
35:BN:108:GLU:HB3	35:BN:111:PHE:HE2	1.61	0.65
35:BN:52:VAL:O	35:BN:53:LYS:HG2	1.97	0.65
36:BO:114:ILE:CG1	36:BO:130:PHE:HA	2.26	0.65
36:BO:46:LYS:HB3	36:BO:49:ARG:NH1	2.11	0.65
38:BQ:51:LEU:CD2	38:BQ:70:LEU:HD11	2.26	0.65
39:BR:49:VAL:CG1	39:BR:76:LYS:HE3	2.25	0.65
40:BS:32:TYR:HD2	40:BS:88:ILE:HA	1.62	0.65
40:BS:50:ILE:HD12	40:BS:66:VAL:CG2	2.27	0.65
24:BA:532:A:H4'	41:BT:28:ARG:NH1	2.12	0.65
41:BT:92:ARG:O	41:BT:95:LEU:HG	1.97	0.65
45:BX:14:LEU:N	45:BX:14:LEU:HD12	2.11	0.65
46:BY:53:ILE:O	46:BY:54:HIS:CG	2.50	0.65
3:AD:60:U:H6	3:AD:60:U:O5'	1.79	0.65
24:BA:2157:G:N2	24:BA:2157:G:OP2	2.30	0.65
26:BC:62:VAL:HG22	26:BC:63:SER:N	2.11	0.65
3:AD:40:C:H2'	3:AD:41:C:H5''	1.78	0.65
1:AA:1202:G:N2	1:AA:1203:C:H1'	2.11	0.65
1:AA:1346:A:H62	1:AA:1374:A:H3'	1.61	0.65
1:AA:1287:A:H61	1:AA:1371:G:C4'	2.10	0.65
1:AA:1528:U:C1'	1:AA:1529:G:H21	2.10	0.65
1:AA:181:G:O2'	1:AA:182:U:H5'	1.96	0.65
1:AA:187:C:O2	1:AA:191(A):G:C6	2.50	0.65
1:AA:51:A:H4'	1:AA:52:G:C5'	2.27	0.65
1:AA:520:A:H8	1:AA:521:G:H5''	1.61	0.65
1:AA:533:A:C5	1:AA:536:C:N4	2.65	0.65
1:AA:568:G:N2	1:AA:574:A:C2	2.63	0.65
1:AA:61:G:H2'	1:AA:62:U:H6	1.56	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:679:C:O2'	1:AA:680:C:H5'	1.97	0.65
1:AA:983:A:H1'	1:AA:1201:A:C8	2.31	0.65
4:AE:196:LEU:HD12	4:AE:196:LEU:C	2.17	0.65
6:AG:173:TRP:CE2	6:AG:189:PRO:HB3	2.32	0.65
11:AL:113:LYS:HZ2	11:AL:119:ALA:CB	2.09	0.65
14:AO:25:PRO:O	14:AO:27:LEU:N	2.30	0.65
15:AP:10:PRO:O	15:AP:45:VAL:HG21	1.97	0.65
17:AR:53:HIS:CD2	17:AR:57:LEU:HD11	2.32	0.65
50:B3:53:GLU:HG2	50:B3:54:GLY:N	2.12	0.65
53:B6:39:ARG:O	53:B6:40:TRP:HB2	1.97	0.65
24:BA:331:A:C5	24:BA:1209:G:C2	2.85	0.65
24:BA:1287:A:H5'	38:BQ:104:ARG:HG3	1.77	0.65
24:BA:1307:A:O2'	24:BA:1308:A:H5'	1.97	0.65
24:BA:1386:C:H2'	24:BA:1387:C:H6	1.60	0.65
24:BA:1400:G:H2'	24:BA:1401:G:C8	2.32	0.65
24:BA:1492:G:N3	24:BA:1493:C:N4	2.44	0.65
24:BA:1492:G:N3	24:BA:1493:C:N3	2.45	0.65
24:BA:1519:G:H4'	24:BA:1519:G:OP1	1.95	0.65
24:BA:1681:G:N1	24:BA:1762:A:N7	2.45	0.65
24:BA:1834:U:H4'	24:BA:1834:U:OP1	1.96	0.65
24:BA:1980:G:C5	24:BA:1982:C:C5	2.85	0.65
24:BA:2021:C:H5'	24:BA:2022:U:C5	2.31	0.65
24:BA:2051:A:C2	24:BA:2052:G:N7	2.65	0.65
24:BA:2286:A:N6	52:B5:32:ASN:H	1.88	0.65
24:BA:2439:A:H8	24:BA:2586:C:H4'	1.61	0.65
24:BA:2445:G:C2'	24:BA:2446:G:H8	2.07	0.65
24:BA:2611:U:H2'	24:BA:2612:C:O4'	1.97	0.65
24:BA:2777:G:C8	24:BA:2777:G:H3'	2.32	0.65
24:BA:597:U:O2	24:BA:598:G:N7	2.30	0.65
24:BA:91:A:N3	24:BA:91:A:C2'	2.60	0.65
25:BB:115:G:H4'	39:BR:50:SER:CB	2.27	0.65
25:BB:30:C:C2'	25:BB:31:C:H5'	2.26	0.65
24:BA:783:A:H3'	27:BD:227:ASN:CG	2.17	0.65
29:BF:4:VAL:O	29:BF:20:LEU:HD11	1.92	0.65
30:BG:39:ILE:HD12	30:BG:92:VAL:O	1.97	0.65
31:BH:29:PRO:HD3	31:BH:79:VAL:CA	2.27	0.65
34:BM:108:PRO:O	34:BM:113:GLY:HA3	1.97	0.65
35:BN:13:ASN:OD1	35:BN:52:VAL:HG12	1.96	0.65
35:BN:63:VAL:HB	35:BN:78:ARG:CG	2.26	0.65
36:BO:76:LYS:HD2	36:BO:101:VAL:HG21	1.77	0.65
36:BO:114:ILE:HG13	36:BO:123:LEU:HB2	1.78	0.65
37:BP:27:VAL:CG2	37:BP:28:ALA:N	2.53	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:75:THR:HG22	37:BP:77:LYS:CD	2.25	0.65
39:BR:74:ALA:CB	39:BR:108:GLY:CA	2.67	0.65
39:BR:69:VAL:HG12	39:BR:73:LEU:HD21	1.78	0.65
39:BR:89:ARG:CG	39:BR:90:GLY:N	2.57	0.65
24:BA:30:G:P	41:BT:11:ARG:HH22	2.20	0.65
42:BU:31:ALA:O	42:BU:33:VAL:HG23	1.95	0.65
42:BU:28:GLU:HG2	42:BU:94:LEU:HB2	1.79	0.65
32:BK:79:ILE:C	32:BK:144:VAL:HG23	2.16	0.65
3:AD:18:G:H2'	3:AD:19:G:C4'	2.26	0.65
3:AD:55:U:H2'	3:AD:57:G:N7	2.12	0.65
26:BC:103:ILE:CB	26:BC:127:LEU:HD21	2.23	0.65
26:BC:86:ALA:HB2	26:BC:149:ILE:C	2.16	0.65
34:BM:139:GLU:O	34:BM:140:VAL:HG23	1.97	0.65
1:AA:103:C:H1'	1:AA:151:A:C2	2.32	0.65
1:AA:129(A):G:H3'	1:AA:129(A):G:H8	1.61	0.65
1:AA:1378:C:N3	1:AA:1379:G:C1'	2.60	0.65
1:AA:1440:C:H2'	1:AA:1441:G:O4'	1.97	0.65
1:AA:361:G:N7	1:AA:362:G:C6	2.65	0.65
1:AA:568:G:N2	1:AA:574:A:H2	1.95	0.65
1:AA:758:G:H8	1:AA:758:G:O5'	1.79	0.65
1:AA:820:U:O2'	1:AA:821:G:OP2	2.14	0.65
1:AA:824:C:O4'	10:AK:1:MET:N	2.26	0.65
3:AC:36:A:N6	3:AC:37:A:N6	2.46	0.65
1:AA:1338:G:H21	3:AC:41:C:C1'	2.10	0.65
4:AE:39:ILE:O	4:AE:41:ILE:CD1	2.45	0.65
5:AF:193:TYR:HB2	5:AF:196:LEU:HD22	1.78	0.65
5:AF:38:ARG:CG	5:AF:94:LEU:HD21	2.27	0.65
6:AG:118:ARG:HG3	6:AG:136:PRO:CB	2.26	0.65
6:AG:56:VAL:HG12	6:AG:57:ARG:N	2.10	0.65
7:AH:137:GLU:HA	7:AH:137:GLU:OE2	1.97	0.65
12:AM:5:ARG:HB2	12:AM:5:ARG:NH1	2.11	0.65
13:AN:44:SER:H	13:AN:47:VAL:HB	1.62	0.65
14:AO:85:ILE:CD1	14:AO:98:TYR:CB	2.74	0.65
14:AO:85:ILE:CD1	14:AO:98:TYR:HB2	2.26	0.65
15:AP:16:ASP:O	15:AP:19:LEU:HG	1.97	0.65
19:AT:51:TYR:H	19:AT:51:TYR:HD1	1.41	0.65
20:AU:47:THR:N	20:AU:49:LYS:HZ3	1.91	0.65
49:B2:50:VAL:HG22	49:B2:53:LEU:HD12	1.79	0.65
50:B3:43:TYR:CA	50:B3:61:ARG:NH2	2.41	0.65
51:B4:20:ARG:HA	51:B4:23:HIS:CD2	2.31	0.65
38:BQ:33:ARG:HH22	51:B4:56:LYS:HB2	1.62	0.65
53:B6:28:ARG:O	53:B6:31:LEU:CB	2.41	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1033:U:H5''	55:B8:9:ARG:NH2	2.12	0.65
24:BA:1142(A):A:C6	24:BA:1143:A:H8	2.15	0.65
24:BA:1275:A:H2'	24:BA:1276:A:O4'	1.97	0.65
24:BA:137:C:O2'	24:BA:137(A):G:H5'	1.97	0.65
24:BA:13:A:N6	24:BA:525:U:N1	2.44	0.65
24:BA:1627:G:N2	24:BA:1628:G:H1'	2.11	0.65
24:BA:1773:A:H2	24:BA:1977:A:N6	1.94	0.65
24:BA:1784:A:H4'	24:BA:1785:A:N9	2.13	0.65
24:BA:1792:G:H2'	24:BA:1792:G:N3	2.12	0.65
24:BA:1834:U:C1'	24:BA:1969:A:C2	2.80	0.65
24:BA:1924:C:H2'	24:BA:1925:C:H6	1.62	0.65
24:BA:1935:G:C2'	24:BA:1962:C:N4	2.57	0.65
24:BA:2335:A:C6	24:BA:2337:G:C2	2.85	0.65
24:BA:2385:C:C2	24:BA:2386:C:C6	2.85	0.65
24:BA:2059:A:C2	24:BA:2503:A:N7	2.65	0.65
24:BA:2659:G:H1'	24:BA:2663:G:H1	1.62	0.65
24:BA:27:G:C2	24:BA:512:G:O2'	2.50	0.65
24:BA:2882:A:C5'	38:BQ:98:LEU:HD21	2.27	0.65
24:BA:412:A:H62	24:BA:2411:A:H1'	1.61	0.65
24:BA:464:U:H1'	24:BA:788:A:N6	2.09	0.65
24:BA:13:A:N6	24:BA:525:U:C2	2.65	0.65
24:BA:537:C:H2'	24:BA:539:G:C8	2.31	0.65
24:BA:612:G:C4'	24:BA:616:A:H61	2.03	0.65
24:BA:650:C:N3	24:BA:651:G:C2	2.65	0.65
24:BA:66:C:H2'	24:BA:67:U:C5'	2.27	0.65
24:BA:97:C:H2'	24:BA:98:G:O4'	1.97	0.65
25:BB:84:C:C2	25:BB:85:G:C8	2.84	0.65
27:BD:150:LYS:C	27:BD:152:GLY:H	2.00	0.65
24:BA:1775:U:N1	27:BD:208:LYS:HD2	2.12	0.65
27:BD:45:ASN:C	27:BD:46:GLN:HG3	2.18	0.65
27:BD:91:ARG:HH11	27:BD:91:ARG:N	1.94	0.65
28:BE:102:VAL:HG23	28:BE:200:GLU:CD	2.18	0.65
30:BG:104:GLU:HA	30:BG:108:ASN:HD22	1.61	0.65
30:BG:113:ARG:O	30:BG:114:ILE:HG22	1.97	0.65
30:BG:74:LYS:O	30:BG:75:LYS:HB2	1.97	0.65
31:BH:136:ILE:HG23	31:BH:137:ASP:N	2.10	0.65
31:BH:8:PRO:HD2	31:BH:69:ARG:HH11	1.62	0.65
24:BA:1137:G:HO2'	34:BM:105:GLY:HA3	1.61	0.65
24:BA:624:C:OP2	36:BO:105:LEU:HB3	1.97	0.65
37:BP:85:LYS:NZ	47:BZ:10:THR:HG21	2.12	0.65
37:BP:87:LYS:O	37:BP:87:LYS:HG2	1.95	0.65
39:BR:94:TYR:CD1	39:BR:94:TYR:N	2.64	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:533:G:P	41:BT:25:TRP:HB2	2.37	0.65
42:BU:83:ARG:HD3	42:BU:84:LYS:N	2.12	0.65
43:BV:13:SER:O	43:BV:17:VAL:HG22	1.97	0.65
44:BW:27:THR:HG22	44:BW:80:ILE:CG2	2.26	0.65
44:BW:31:HIS:O	44:BW:33:LYS:N	2.30	0.65
45:BX:12:THR:HG21	45:BX:70:SER:O	1.97	0.65
46:BY:74:VAL:HG22	46:BY:86:VAL:HA	1.78	0.65
47:BZ:28:GLY:O	47:BZ:29:GLN:O	2.15	0.65
47:BZ:46:LYS:HD3	47:BZ:46:LYS:N	2.12	0.65
24:BA:2134:A:C2'	24:BA:2135:A:O5'	2.45	0.65
26:BC:10:LEU:HD21	26:BC:220:PRO:CD	2.25	0.65
26:BC:128:GLY:HA2	26:BC:137:LEU:CD1	2.27	0.65
45:BX:42:VAL:O	45:BX:61:ILE:HD13	1.97	0.65
24:BA:1416:G:H1'	24:BA:1583:A:N1	2.12	0.65
1:AA:1171:G:H2'	1:AA:1172:C:C6	2.32	0.65
1:AA:124:G:H2'	1:AA:125:U:H6	1.61	0.64
1:AA:1256:A:O2'	1:AA:1257:U:H1'	1.97	0.64
1:AA:1345:U:H5'	1:AA:1346:A:OP1	1.96	0.64
1:AA:138:G:N2	1:AA:226:G:H1'	2.12	0.64
1:AA:1419:G:O2'	1:AA:1420:C:H6	1.80	0.64
1:AA:1490:C:H2'	1:AA:1491:G:H5'	1.75	0.64
1:AA:1508:G:O2'	1:AA:1509:C:H5'	1.96	0.64
1:AA:291:C:C3'	1:AA:305:G:H22	1.99	0.64
1:AA:307:C:N4	1:AA:308:C:H5	1.94	0.64
1:AA:59:A:H1'	1:AA:354:G:N2	2.12	0.64
1:AA:687:A:H61	1:AA:703:G:C1'	2.09	0.64
1:AA:737:A:O2'	1:AA:738:C:H5'	1.97	0.64
1:AA:759:A:N6	1:AA:760:G:N3	2.44	0.64
1:AA:888:G:C2	1:AA:889:A:N6	2.63	0.64
3:AB:37:A:H2'	3:AB:38:A:O4'	1.97	0.64
3:AC:29:G:H5'	15:AP:118:ALA:O	1.97	0.64
4:AE:118:LEU:CD1	4:AE:142:LEU:HD12	2.25	0.64
4:AE:208:ILE:HA	4:AE:211:ILE:CB	2.27	0.64
4:AE:20:GLU:HA	4:AE:21:ARG:NH2	2.08	0.64
4:AE:69:LEU:HD13	4:AE:70:PHE:N	2.12	0.64
5:AF:124:ILE:CD1	5:AF:130:VAL:HG13	2.27	0.64
5:AF:51:GLY:O	5:AF:70:VAL:HG13	1.97	0.64
7:AH:31:LEU:CD1	7:AH:129:ILE:HA	2.27	0.64
1:AA:6:G:N1	7:AH:96:PRO:HG2	2.12	0.64
11:AL:121:ARG:HG2	11:AL:121:ARG:HH11	1.60	0.64
14:AO:58:VAL:HG12	14:AO:59:ARG:N	2.10	0.64
14:AO:54:LYS:CB	14:AO:70:ILE:HB	2.26	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:AQ:40:CYS:O	16:AQ:44:LEU:CB	2.45	0.64
17:AR:33:THR:HG23	17:AR:87:ILE:HD11	1.79	0.64
19:AT:62:SER:CB	19:AT:72:ARG:HG2	2.26	0.64
19:AT:82:MET:HA	19:AT:85:VAL:HG21	1.78	0.64
21:AV:62:ILE:CD1	21:AV:67:VAL:HA	2.26	0.64
22:AW:57:ARG:O	22:AW:59:ALA:N	2.29	0.64
23:AX:5:ASP:O	23:AX:7:ARG:HG2	1.97	0.64
48:B1:27:LEU:HD13	48:B1:52:ILE:CD1	2.26	0.64
49:B2:22:ALA:O	49:B2:25:ALA:HB3	1.97	0.64
50:B3:5:ILE:HD11	50:B3:10:VAL:CG2	2.21	0.64
51:B4:19:ARG:O	51:B4:21:SER:N	2.30	0.64
51:B4:21:SER:O	51:B4:22:HIS:C	2.34	0.64
54:B7:30:ARG:NH2	54:B7:43:GLN:N	2.45	0.64
24:BA:1069:A:N6	24:BA:1096:A:OP1	2.30	0.64
24:BA:1195:G:C2'	24:BA:1226:G:H22	2.10	0.64
24:BA:1226:G:H8	24:BA:1226:G:H3'	1.61	0.64
24:BA:1227:A:H2'	24:BA:1228:G:H5''	1.80	0.64
24:BA:1271:G:P	24:BA:1272:A:OP1	2.56	0.64
24:BA:1470:G:H3'	24:BA:1470:G:C8	2.32	0.64
24:BA:1472:A:C1'	24:BA:1473:G:C8	2.80	0.64
24:BA:1654:A:C2	24:BA:1655:A:C8	2.84	0.64
24:BA:1687:G:C5	24:BA:1688:U:H5	2.14	0.64
24:BA:1785:A:OP1	24:BA:1981:A:H3'	1.97	0.64
24:BA:1917:U:C6	24:BA:1918:A:C8	2.85	0.64
24:BA:2010:G:H2'	24:BA:2011:U:C5'	2.26	0.64
24:BA:2098:U:H2'	24:BA:2099:U:H6	1.61	0.64
24:BA:2262:U:O2'	24:BA:2328:A:N3	2.24	0.64
24:BA:227:A:N6	24:BA:2407:G:C8	2.65	0.64
3:AB:52:G:C4'	24:BA:2471:C:H5''	2.26	0.64
24:BA:2521:C:H2'	24:BA:2522:U:O4'	1.97	0.64
24:BA:2569:G:N3	24:BA:2570:G:C8	2.65	0.64
24:BA:1296:G:H5''	24:BA:2709:G:O2'	1.98	0.64
24:BA:270(S):G:C2	24:BA:270(T):G:N7	2.65	0.64
24:BA:445:C:H5''	41:BT:3:ARG:HG3	1.78	0.64
24:BA:515:A:O5'	24:BA:515:A:H8	1.78	0.64
24:BA:558:G:H2'	24:BA:559:G:H5'	1.78	0.64
24:BA:583:G:O2'	24:BA:584:C:H5'	1.96	0.64
24:BA:638:G:H3'	24:BA:638:G:H8	1.61	0.64
24:BA:641:C:N4	24:BA:646:A:H61	1.94	0.64
24:BA:702:G:N2	24:BA:731:C:C2	2.66	0.64
24:BA:703:U:H2'	24:BA:704:G:C1'	2.26	0.64
24:BA:832:G:HO2'	24:BA:833:U:H6	1.45	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:979:G:N7	24:BA:981:A:P	2.70	0.64
24:BA:99:U:H5'	24:BA:101:G:C5'	2.27	0.64
27:BD:97:TYR:HB2	27:BD:101:GLU:O	1.97	0.64
27:BD:52:ARG:O	27:BD:53:PHE:O	2.15	0.64
27:BD:53:PHE:O	27:BD:54:ARG:O	2.16	0.64
28:BE:128:SER:O	28:BE:130:GLY:N	2.31	0.64
28:BE:40:GLU:C	28:BE:41:LYS:HE3	2.18	0.64
29:BF:171:PRO:HB2	29:BF:172:TRP:CE3	2.32	0.64
29:BF:178:PRO:C	29:BF:180:GLY:N	2.50	0.64
29:BF:184:TYR:N	29:BF:184:TYR:CD2	2.64	0.64
31:BH:40:GLU:CB	31:BH:55:PRO:HG3	2.27	0.64
35:BN:7:TYR:HA	35:BN:18:LYS:CE	2.28	0.64
36:BO:113:LYS:HA	36:BO:129:ALA:HB1	1.78	0.64
36:BO:128:HIS:CG	36:BO:129:ALA:H	2.05	0.64
36:BO:23:PRO:CB	36:BO:29:LYS:N	2.60	0.64
36:BO:97:PRO:HB3	36:BO:102:ARG:NH1	2.12	0.64
37:BP:6:ARG:CB	37:BP:44:ALA:HB1	2.21	0.64
37:BP:75:THR:HB	37:BP:77:LYS:HE3	1.79	0.64
38:BQ:97:VAL:O	38:BQ:98:LEU:HD23	1.98	0.64
39:BR:12:PHE:O	39:BR:13:ARG:C	2.32	0.64
41:BT:105:VAL:CG1	41:BT:106:PHE:N	2.60	0.64
41:BT:50:ARG:CZ	41:BT:50:ARG:HB2	2.27	0.64
41:BT:70:ARG:HG2	41:BT:75:ASN:CA	2.18	0.64
43:BV:103:ILE:HD13	43:BV:103:ILE:H	1.62	0.64
45:BX:2:ARG:CD	45:BX:3:VAL:N	2.57	0.64
46:BY:159:PRO:O	46:BY:161:VAL:HG23	1.98	0.64
47:BZ:12:ASN:HA	47:BZ:14:ARG:NE	2.12	0.64
3:AD:18:G:N2	3:AD:57:G:H2'	2.12	0.64
26:BC:104:LEU:HD11	26:BC:126:LYS:O	1.97	0.64
26:BC:23:ASP:OD1	26:BC:183:GLU:HA	1.96	0.64
26:BC:7:TYR:CD1	26:BC:10:LEU:HB3	2.32	0.64
24:BA:1579:A:H2'	24:BA:1580:A:C4'	2.27	0.64
24:BA:2187:G:H2'	24:BA:2188:C:C6	2.30	0.64
34:BM:6:PRO:CA	34:BM:41:ASP:HB3	2.27	0.64
2:A1:48:U:OP2	2:A1:48:U:H6	1.78	0.64
19:AT:24:GLU:N	19:AT:24:GLU:CD	2.51	0.64
1:AA:1057:G:H2'	1:AA:1058:G:C8	2.32	0.64
1:AA:955:U:C1'	1:AA:1227:A:H61	2.03	0.64
1:AA:1298:C:H2'	1:AA:1298:C:O2	1.97	0.64
1:AA:1321:C:C4	1:AA:1322:C:H2'	2.32	0.64
1:AA:1358:U:OP2	1:AA:1359:C:C5	2.49	0.64
1:AA:1371:G:P	11:AL:11:LYS:HE3	2.37	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:314:C:H2'	1:AA:315:A:H1'	1.78	0.64
1:AA:579:G:O5'	1:AA:579:G:H8	1.80	0.64
1:AA:603:U:H2'	1:AA:604:G:H8	1.62	0.64
1:AA:675:A:H1'	13:AN:116:HIS:CG	2.33	0.64
1:AA:754:C:C3'	1:AA:754:C:O2	2.46	0.64
4:AE:15:VAL:HG21	4:AE:210:SER:N	2.11	0.64
5:AF:84:ILE:O	5:AF:101:LEU:HD13	1.97	0.64
6:AG:101:LEU:CB	6:AG:138:TYR:O	2.46	0.64
9:AJ:17:VAL:HG11	9:AJ:44:TYR:CE2	2.32	0.64
11:AL:15:ALA:CB	11:AL:77:ILE:HG13	2.27	0.64
12:AM:7:LYS:HG3	12:AM:71:LEU:HD11	1.78	0.64
15:AP:97:PRO:CB	15:AP:101:GLN:HB2	2.25	0.64
16:AQ:26:ARG:HB2	16:AQ:43:CYS:CB	2.27	0.64
18:AS:6:LEU:HD22	18:AS:6:LEU:C	2.18	0.64
19:AT:4:LYS:CE	19:AT:5:VAL:O	2.44	0.64
19:AT:6:LEU:HD12	19:AT:6:LEU:C	2.17	0.64
1:AA:189:U:C4	19:AT:72:ARG:NH2	2.63	0.64
19:AT:88:TYR:CA	19:AT:91:ARG:NH2	2.60	0.64
20:AU:63:GLN:HA	20:AU:66:LEU:HD11	1.79	0.64
21:AV:40:ILE:HG12	21:AV:71:LEU:HD23	1.77	0.64
1:AA:1243:C:OP2	23:AX:10:ARG:CZ	2.45	0.64
49:B2:35:ARG:HH22	49:B2:47:VAL:CG1	2.10	0.64
24:BA:126:A:P	53:B6:17:GLY:HA3	2.37	0.64
55:B8:29:ASN:HB3	55:B8:32:HIS:CE1	2.32	0.64
24:BA:1061:U:H4'	24:BA:1070:A:C2'	2.27	0.64
24:BA:1229:G:C6	24:BA:1230:C:C2	2.84	0.64
24:BA:1608:A:C5	24:BA:1611:C:C4	2.85	0.64
24:BA:1931:U:H6	24:BA:1932:A:C8	2.15	0.64
24:BA:230:U:H2'	24:BA:231:C:C6	2.32	0.64
24:BA:2612:C:O2	51:B4:4:HIS:CG	2.50	0.64
24:BA:2863:C:O2'	24:BA:2864:G:H5'	1.95	0.64
24:BA:400:G:C8	24:BA:400:G:H3'	2.32	0.64
24:BA:465:G:C5	24:BA:466:A:N7	2.65	0.64
24:BA:475:U:C6	24:BA:509:C:N4	2.65	0.64
24:BA:663:G:O2'	24:BA:940:G:C4'	2.40	0.64
24:BA:714:U:O2	24:BA:717:G:C8	2.50	0.64
24:BA:930:U:O2	24:BA:932:G:C2	2.50	0.64
25:BB:110:G:H2'	25:BB:111:U:O5'	1.97	0.64
25:BB:24:G:N2	25:BB:27:C:H42	1.95	0.64
27:BD:181:GLU:CB	27:BD:268:ARG:NH2	2.59	0.64
28:BE:164:ARG:O	28:BE:165:VAL:CG2	2.44	0.64
28:BE:164:ARG:C	28:BE:165:VAL:CG2	2.65	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:BE:27:LEU:CD1	28:BE:76:ARG:NH1	2.61	0.64
28:BE:49:LEU:HD21	28:BE:76:ARG:N	2.12	0.64
29:BF:82:ILE:CD1	29:BF:82:ILE:H	2.11	0.64
30:BG:16:ARG:NH2	30:BG:16:ARG:HG3	2.09	0.64
31:BH:105:LEU:HD12	31:BH:113:VAL:HG11	1.79	0.64
31:BH:157:TYR:CD1	31:BH:158:HIS:N	2.65	0.64
32:BK:22:LYS:HB3	32:BK:23:PRO:CD	2.28	0.64
33:BL:117:THR:O	33:BL:118:THR:HG23	1.97	0.64
33:BL:10:LEU:HD22	33:BL:27:LEU:HD21	1.78	0.64
34:BM:15:LEU:HD23	34:BM:15:LEU:N	2.12	0.64
35:BN:28:SER:O	35:BN:29:ASN:HB2	1.96	0.64
1:AA:1423:G:H5'	35:BN:49:ARG:NH2	2.12	0.64
35:BN:94:ARG:HG3	35:BN:95:GLY:H	1.56	0.64
36:BO:35:HIS:O	36:BO:36:LYS:HD3	1.97	0.64
36:BO:81:GLN:CA	36:BO:86:LYS:HE3	2.26	0.64
37:BP:45:GLN:HA	37:BP:48:GLU:HG2	1.79	0.64
40:BS:53:ARG:NH2	40:BS:102:ILE:HD13	2.12	0.64
41:BT:69:CYS:HG	41:BT:70:ARG:HG3	1.61	0.64
41:BT:79:PHE:CE1	41:BT:83:LEU:HD11	2.32	0.64
42:BU:22:VAL:CG1	42:BU:23:GLU:N	2.61	0.64
42:BU:72:VAL:HG12	42:BU:73:SER:H	1.61	0.64
43:BV:27:LYS:HB3	43:BV:31:GLU:OE2	1.97	0.64
43:BV:59:VAL:HG21	43:BV:66:GLU:HB2	1.77	0.64
43:BV:66:GLU:O	43:BV:69:LEU:HD13	1.98	0.64
44:BW:11:PRO:HA	44:BW:28:PHE:HB3	1.79	0.64
46:BY:11:GLU:HG3	46:BY:36:LYS:NZ	2.11	0.64
24:BA:2161:C:C2	24:BA:2162:G:N7	2.66	0.64
26:BC:49:ILE:HD11	26:BC:165:ASN:HD22	1.62	0.64
1:AA:772:U:O2'	1:AA:773:G:H5'	1.97	0.64
1:AA:1125:U:H4'	1:AA:1126:U:C5	2.32	0.64
1:AA:1196:U:H4'	1:AA:1197:G:O5'	1.98	0.64
1:AA:1295:G:N2	1:AA:1302:U:H3	1.95	0.64
1:AA:1389:C:H2'	1:AA:1390:U:H5'	1.80	0.64
1:AA:1431:C:H42	1:AA:1469:G:H1	1.45	0.64
1:AA:665:A:H2'	1:AA:725:G:H21	1.57	0.64
1:AA:755:G:H2'	1:AA:756:C:C6	2.33	0.64
3:AC:20:U:O2	3:AC:20:U:C2'	2.46	0.64
3:AC:21:A:N1	3:AC:48:C:C4	2.65	0.64
4:AE:224:GLN:HG2	4:AE:229:VAL:CG2	2.27	0.64
4:AE:49:GLU:O	4:AE:52:GLU:CD	2.36	0.64
4:AE:61:LEU:HD11	4:AE:68:ILE:HD13	1.78	0.64
5:AF:112:SER:O	5:AF:116:VAL:HG23	1.96	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:11:ARG:HD3	5:AF:15:THR:CG2	2.26	0.64
6:AG:19:LEU:C	6:AG:21:LEU:N	2.45	0.64
8:AI:2:ARG:CZ	8:AI:69:GLU:HG2	2.28	0.64
1:AA:1373:G:C5'	9:AJ:36:LYS:HB2	2.27	0.64
10:AK:38:ILE:HD11	10:AK:118:VAL:HB	1.79	0.64
10:AK:26:VAL:CG2	10:AK:27:PRO:HD2	2.23	0.64
10:AK:29:SER:C	10:AK:32:LYS:HZ2	2.01	0.64
11:AL:9:ARG:HD2	11:AL:14:VAL:HG13	1.80	0.64
14:AO:48:PRO:CG	14:AO:49:ASN:H	2.10	0.64
19:AT:59:ILE:CG1	19:AT:71:PHE:HB3	2.27	0.64
21:AV:38:SER:HB3	21:AV:71:LEU:HG	1.78	0.64
22:AW:26:ASN:ND2	22:AW:27:LYS:N	2.44	0.64
1:AA:1326:C:H5''	23:AX:12:LYS:HZ1	1.63	0.64
49:B2:6:VAL:HG21	49:B2:35:ARG:NH2	2.11	0.64
24:BA:1025:G:H1'	24:BA:1134:G:H4'	1.79	0.64
24:BA:1153:C:C4	24:BA:1154:G:O6	2.51	0.64
24:BA:1197:G:C5	24:BA:1198:U:C6	2.85	0.64
24:BA:1409:C:O2'	24:BA:1410:G:H5'	1.98	0.64
24:BA:1480:G:H2'	24:BA:1480:G:N3	2.11	0.64
24:BA:1534:G:H21	24:BA:1537:C:H41	1.46	0.64
24:BA:1558:A:H2	24:BA:1560:G:N9	1.96	0.64
24:BA:1592:C:O2'	24:BA:1593:G:H5'	1.97	0.64
24:BA:176:G:C2'	24:BA:177:G:H8	2.09	0.64
24:BA:206:U:OP2	24:BA:206:U:C6	2.49	0.64
24:BA:2208:U:H1'	24:BA:2217:G:C2	2.32	0.64
24:BA:199:A:C5	24:BA:2433:A:C2	2.84	0.64
24:BA:2749:A:H8	24:BA:2749:A:OP2	1.80	0.64
24:BA:2815:C:C2	24:BA:2816:C:C6	2.86	0.64
24:BA:2839:G:H2'	24:BA:2840:C:C6	2.31	0.64
24:BA:303:U:O2'	24:BA:304:G:H5'	1.98	0.64
24:BA:502:A:H3'	24:BA:502:A:C8	2.32	0.64
24:BA:544:C:H2'	24:BA:545:G:O4'	1.97	0.64
24:BA:566:U:H2'	24:BA:567:A:C8	2.33	0.64
24:BA:669:G:C4	24:BA:801:G:C2	2.85	0.64
24:BA:464:U:C2	24:BA:788:A:N7	2.65	0.64
27:BD:74:GLY:O	27:BD:118:VAL:HG11	1.98	0.64
24:BA:1791:A:O3'	27:BD:206:LEU:HD21	1.97	0.64
27:BD:234:GLY:N	27:BD:241:PRO:CG	2.60	0.64
24:BA:1798:U:H5''	27:BD:257:LEU:HB2	1.78	0.64
27:BD:77:ALA:HB1	27:BD:95:LEU:HD11	1.79	0.64
28:BE:101:ARG:HD2	28:BE:169:ASN:ND2	2.09	0.64
29:BF:192:LEU:HD13	29:BF:192:LEU:C	2.18	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:BL:12:LEU:HD22	33:BL:19:PRO:HG3	1.78	0.64
33:BL:56:GLU:HB3	33:BL:67:PHE:CD2	2.32	0.64
24:BA:558:G:C5'	34:BM:109:LYS:HD3	2.27	0.64
34:BM:15:LEU:HD21	34:BM:137:LYS:CB	2.26	0.64
34:BM:89:LYS:HA	34:BM:92:ALA:CB	2.26	0.64
36:BO:114:ILE:N	36:BO:114:ILE:CD1	2.59	0.64
36:BO:126:VAL:HA	36:BO:146:VAL:H	1.59	0.64
36:BO:49:ARG:HA	36:BO:52:GLU:HG2	1.80	0.64
39:BR:103:GLU:HA	39:BR:106:ARG:CB	2.28	0.64
40:BS:63:VAL:CG1	40:BS:63:VAL:O	2.44	0.64
24:BA:2018:G:C1'	41:BT:34:LYS:NZ	2.59	0.64
42:BU:14:VAL:HG21	42:BU:21:ARG:HH22	1.62	0.64
42:BU:62:LEU:CD2	42:BU:99:ILE:H	2.04	0.64
43:BV:69:LEU:HB3	43:BV:107:LEU:HD11	1.79	0.64
43:BV:66:GLU:HA	43:BV:69:LEU:CD1	2.28	0.64
45:BX:23:ARG:CD	45:BX:39:VAL:HG22	2.28	0.64
46:BY:10:ARG:NE	46:BY:36:LYS:HB2	2.12	0.64
46:BY:128:VAL:HB	46:BY:162:GLU:HB3	1.79	0.64
32:BK:111:PRO:HD2	32:BK:112:LYS:NZ	2.13	0.64
1:AA:350:G:N2	1:AA:351:G:C2	2.66	0.64
1:AA:1278:U:H5'	1:AA:1279:A:H5'	1.78	0.64
1:AA:1434:A:N6	1:AA:1435:G:C2	2.66	0.64
1:AA:132:C:N3	1:AA:231:G:C2	2.66	0.64
1:AA:518:C:C5	1:AA:530:G:C5	2.85	0.64
1:AA:921:U:O2'	1:AA:922:G:H5'	1.98	0.64
4:AE:208:ILE:CD1	4:AE:239:VAL:HG11	2.27	0.64
4:AE:219:VAL:O	4:AE:223:ILE:CG1	2.46	0.64
5:AF:122:GLU:HA	5:AF:125:GLU:CG	2.19	0.64
5:AF:132:ARG:HB3	5:AF:136:GLN:NE2	2.13	0.64
7:AH:140:ARG:CB	7:AH:140:ARG:NH1	2.61	0.64
8:AI:46:ARG:NH2	20:AU:37:VAL:CG1	2.59	0.64
8:AI:12:PRO:HB2	8:AI:57:GLN:HE21	1.61	0.64
9:AJ:155:ARG:NH1	9:AJ:156:TRP:N	2.40	0.64
9:AJ:65:ALA:N	9:AJ:128:ALA:HA	2.12	0.64
10:AK:64:LYS:O	10:AK:79:VAL:HB	1.98	0.64
13:AN:53:SER:OG	13:AN:54:ARG:N	2.28	0.64
14:AO:85:ILE:HA	14:AO:99:HIS:O	1.97	0.64
15:AP:10:PRO:HG3	15:AP:18:ALA:CB	2.27	0.64
16:AQ:34:TYR:OH	16:AQ:44:LEU:HD22	1.97	0.64
51:B4:55:ARG:H	51:B4:55:ARG:CD	2.10	0.64
24:BA:1338:G:O2'	24:BA:1339:G:H5'	1.97	0.64
24:BA:138:G:N2	24:BA:139:G:N7	2.46	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1394:U:O3'	24:BA:1603:A:H5''	1.97	0.64
24:BA:1407:C:OP2	24:BA:1407:C:C6	2.51	0.64
24:BA:150:C:O2	24:BA:151:C:C6	2.50	0.64
24:BA:1549:C:H2'	24:BA:1550:C:H6	1.63	0.64
24:BA:1639:U:H2'	24:BA:1640:C:C5'	2.28	0.64
24:BA:1703:G:C2	24:BA:1704:G:C4	2.85	0.64
24:BA:1803:A:H2'	24:BA:1804:C:H6	1.61	0.64
24:BA:1917:U:H2'	24:BA:1918:A:C1'	2.27	0.64
24:BA:212:G:H2'	24:BA:213:A:H8	1.63	0.64
24:BA:954:G:H1'	24:BA:2274:A:C2	2.33	0.64
24:BA:2459:A:H2	24:BA:2492:U:C4	2.16	0.64
24:BA:2538:C:C2	24:BA:2539:C:C5	2.86	0.64
24:BA:2563:U:H4'	35:BN:28:SER:HG	1.60	0.64
24:BA:527:C:O4'	24:BA:2779:U:O4	2.16	0.64
24:BA:297:C:H3'	24:BA:298:G:C8	2.31	0.64
24:BA:312:G:H5''	24:BA:313:C:OP2	1.97	0.64
24:BA:501:A:O5'	24:BA:501:A:C8	2.45	0.64
24:BA:581:C:H4'	41:BT:32:PHE:CZ	2.33	0.64
24:BA:582:G:H2'	24:BA:583:G:C8	2.32	0.64
24:BA:604:G:H21	24:BA:658:C:H5'	1.62	0.64
24:BA:611:C:H2'	24:BA:612:G:O4'	1.97	0.64
24:BA:60:G:C8	24:BA:63:U:C4	2.86	0.64
24:BA:641:C:H2'	24:BA:642:G:O4'	1.97	0.64
24:BA:843:G:N2	24:BA:936:C:C2	2.65	0.64
24:BA:960:A:C2	24:BA:962:G:C1'	2.81	0.64
24:BA:975:G:C6	24:BA:976:C:C5	2.85	0.64
25:BB:50:G:H2'	25:BB:50:G:N3	2.11	0.64
27:BD:118:VAL:O	27:BD:119:ALA:HB2	1.98	0.64
27:BD:146:GLU:CB	27:BD:154:LYS:H	2.03	0.64
27:BD:71:ASP:O	27:BD:72:LYS:HB2	1.95	0.64
27:BD:80:ALA:HB2	27:BD:96:HIS:ND1	2.11	0.64
28:BE:119:ARG:HH11	28:BE:120:TRP:HA	1.62	0.64
28:BE:48:GLN:CD	28:BE:48:GLN:N	2.51	0.64
29:BF:139:PHE:CE2	29:BF:167:ALA:HA	2.32	0.64
30:BG:4:ASP:O	30:BG:7:LEU:HB2	1.97	0.64
32:BK:21:VAL:HG11	32:BK:30:LEU:CD2	2.27	0.64
34:BM:37:LYS:HE2	34:BM:43:THR:CG2	2.26	0.64
34:BM:87:LEU:O	34:BM:91:LEU:CD2	2.45	0.64
35:BN:94:ARG:HG2	35:BN:96:THR:O	1.97	0.64
24:BA:637:A:N7	36:BO:115:LEU:HG	2.11	0.64
38:BQ:108:GLY:O	38:BQ:110:PRO:HD3	1.97	0.64
38:BQ:5:LYS:HZ1	38:BQ:6:SER:C	2.00	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BS:64:ARG:O	40:BS:65:LYS:C	2.35	0.64
44:BW:12:VAL:HG23	44:BW:28:PHE:C	2.17	0.64
44:BW:92:LEU:N	44:BW:92:LEU:HD12	2.10	0.64
1:AA:1007:C:H2'	1:AA:1008:C:C6	2.33	0.64
24:BA:1418:G:OP1	24:BA:1588:C:C4'	2.45	0.64
1:AA:1382:C:H6	1:AA:1382:C:O5'	1.80	0.64
2:A1:38:U:O2'	2:A1:39:U:H5'	1.98	0.64
1:AA:109:A:H4'	1:AA:110:C:OP2	1.95	0.64
1:AA:1203:C:H2'	1:AA:1204:A:O4'	1.97	0.64
1:AA:449:C:C2'	1:AA:450:G:O4'	2.44	0.64
1:AA:817:C:O2	1:AA:817:C:C2'	2.45	0.64
1:AA:858:G:N2	1:AA:870:U:OP2	2.30	0.64
3:AC:74:C:H3'	3:AC:75:C:H5''	1.78	0.64
4:AE:130:ARG:HD3	4:AE:131:PRO:CD	2.27	0.64
4:AE:12:GLU:C	4:AE:14:GLY:H	2.01	0.64
4:AE:58:ILE:O	4:AE:61:LEU:HD22	1.98	0.64
5:AF:14:ILE:HG22	5:AF:15:THR:N	2.12	0.64
6:AG:141:ARG:HH11	6:AG:142:PRO:CD	2.10	0.64
7:AH:84:PHE:CG	7:AH:134:ALA:HA	2.33	0.64
9:AJ:29:LYS:NZ	9:AJ:102:ARG:HB2	2.12	0.64
9:AJ:125:MET:HG3	9:AJ:126:ASP:N	2.10	0.64
1:AA:1378:C:OP1	9:AJ:6:ARG:HD3	1.97	0.64
10:AK:32:LYS:CG	10:AK:33:GLU:N	2.61	0.64
13:AN:125:PHE:CD1	13:AN:125:PHE:N	2.66	0.64
13:AN:63:LEU:O	13:AN:66:LEU:HB2	1.97	0.64
17:AR:49:ASP:CG	17:AR:52:SER:HB2	2.17	0.64
19:AT:35:VAL:HG12	19:AT:36:ILE:N	2.13	0.64
20:AU:73:ALA:C	20:AU:79:LEU:HD11	2.16	0.64
52:B5:7:ILE:CG2	52:B5:8:LYS:N	2.61	0.64
24:BA:1221:C:C2	24:BA:1229:G:N2	2.65	0.64
24:BA:1392:A:C6	24:BA:1393:A:N6	2.66	0.64
24:BA:1420:U:O2'	24:BA:1421:G:H5''	1.97	0.64
24:BA:1532:C:O2'	24:BA:1533:C:O4'	2.07	0.64
24:BA:13:A:N7	24:BA:15:G:O6	2.31	0.64
24:BA:1603:A:C2	24:BA:1604:C:C4	2.86	0.64
24:BA:1759:A:O2'	24:BA:1760:A:H5'	1.96	0.64
24:BA:1860:G:H5''	26:BC:206:GLY:CA	2.26	0.64
24:BA:1786:A:C4'	24:BA:1938:A:H61	2.05	0.64
24:BA:197:A:N1	24:BA:198:C:H1'	2.12	0.64
24:BA:2039:C:H2'	24:BA:2040:C:C5	2.33	0.64
24:BA:2246:G:H2'	24:BA:2247:A:H8	1.62	0.64
24:BA:2418:A:C2'	24:BA:2419:U:O4'	2.44	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2478:A:N7	24:BA:2479:G:N7	2.45	0.64
24:BA:2531:A:C2'	24:BA:2532:G:O5'	2.46	0.64
24:BA:1953:A:H62	24:BA:2550:G:C4'	2.10	0.64
24:BA:2572:A:H5''	24:BA:2574:G:H5''	1.79	0.64
24:BA:293:U:C3'	24:BA:293:U:C6	2.80	0.64
24:BA:460:A:H3'	24:BA:461:C:C6	2.31	0.64
24:BA:596:G:C2	24:BA:597:U:C2	2.85	0.64
24:BA:784:A:P	24:BA:2588:G:H5''	2.37	0.64
24:BA:89:G:OP2	24:BA:91:A:OP1	2.15	0.64
24:BA:2209:C:H4'	27:BD:150:LYS:CB	2.24	0.64
29:BF:196:LEU:HB3	29:BF:199:TRP:CD1	2.33	0.64
29:BF:18:ARG:HG3	29:BF:19:GLU:H	1.63	0.64
30:BG:41:GLN:HG3	30:BG:42:GLY:H	1.60	0.64
33:BL:99:ILE:HG23	33:BL:103:GLN:OE1	1.98	0.64
34:BM:128:HIS:O	34:BM:131:GLN:CB	2.45	0.64
35:BN:103:ALA:HB1	35:BN:107:ARG:HD2	1.79	0.64
36:BO:131:SER:O	36:BO:134:ALA:CB	2.43	0.64
37:BP:99:PRO:HG2	37:BP:101:ARG:NE	2.12	0.64
24:BA:2467:C:O2	37:BP:124:LYS:HD3	1.98	0.64
40:BS:21:GLU:O	40:BS:23:ARG:N	2.30	0.64
40:BS:57:PHE:N	40:BS:57:PHE:CD2	2.63	0.64
41:BT:82:GLY:CA	41:BT:117:GLN:HG2	2.21	0.64
41:BT:35:ALA:O	41:BT:38:THR:OG1	2.14	0.64
42:BU:68:LYS:CG	42:BU:95:LEU:HD21	2.26	0.64
43:BV:16:LYS:HZ2	43:BV:16:LYS:H	1.44	0.64
45:BX:32:PRO:HB2	45:BX:34:LYS:HE3	1.79	0.64
45:BX:72:VAL:HG21	45:BX:81:LYS:HE2	1.79	0.64
46:BY:110:GLY:HA2	46:BY:144:LEU:HB2	1.78	0.64
32:BK:93:THR:HG23	32:BK:96:ASP:N	2.11	0.64
26:BC:97:GLU:HB3	26:BC:126:LYS:HZ2	1.62	0.64
1:AA:111:G:H5''	1:AA:112:G:OP2	1.98	0.64
1:AA:1208:C:H2'	1:AA:1209:C:C6	2.33	0.64
1:AA:1226:C:O3'	15:AP:111:LYS:NZ	2.28	0.64
1:AA:1273:G:H3'	1:AA:1274:G:H8	1.63	0.64
1:AA:1317:C:H2'	1:AA:1318:A:O4'	1.97	0.64
1:AA:394:G:C6	1:AA:395:C:N4	2.66	0.64
1:AA:452:A:N6	1:AA:480:U:C2	2.66	0.64
1:AA:748:C:C6	1:AA:748:C:C3'	2.81	0.64
1:AA:765:G:H21	1:AA:816:A:H2	1.45	0.64
1:AA:809:G:H2'	1:AA:810:C:H5'	1.79	0.64
1:AA:841:U:O2	1:AA:841:U:H2'	1.97	0.64
3:AC:47:U:H3'	3:AC:47:U:C6	2.33	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:35:GLU:O	5:AF:38:ARG:HG2	1.97	0.64
6:AG:205:GLU:CD	7:AH:100:VAL:HB	2.17	0.64
8:AI:30:LEU:CA	8:AI:75:LEU:HD11	2.23	0.64
8:AI:78:GLU:O	8:AI:81:ILE:HD12	1.96	0.64
9:AJ:38:LEU:HA	9:AJ:41:ARG:HB2	1.80	0.64
1:AA:1367:C:OP1	11:AL:115:GLY:HA2	1.97	0.64
1:AA:684:A:C4'	13:AN:12:ARG:NH2	2.55	0.64
13:AN:18:ARG:HB2	13:AN:20:TYR:HE1	1.62	0.64
14:AO:76:ASN:ND2	14:AO:77:LEU:HD23	2.13	0.64
15:AP:29:ARG:CZ	15:AP:64:TRP:NE1	2.61	0.64
1:AA:667:G:H4'	17:AR:51:HIS:ND1	2.12	0.64
18:AS:14:ASN:HB2	18:AS:42:ARG:HH12	1.63	0.64
22:AW:26:ASN:HD22	22:AW:27:LYS:N	1.95	0.64
48:B1:48:LEU:HD12	48:B1:51:GLN:NE2	2.12	0.64
50:B3:28:LYS:HB3	50:B3:29:PRO:CD	2.28	0.64
24:BA:1363:C:H41	50:B3:2:LYS:HE2	1.60	0.64
43:BV:38:TYR:CD2	51:B4:39:MET:HE2	2.32	0.64
24:BA:1083:U:O2'	24:BA:1084:A:H8	1.80	0.64
24:BA:1142(A):A:P	24:BA:1143:A:H5'	2.37	0.64
24:BA:1298:C:H4'	24:BA:1302:A:N6	2.13	0.64
24:BA:1471:A:OP2	24:BA:1472:A:H2	1.79	0.64
24:BA:1681:G:C2'	24:BA:1682:G:OP1	2.44	0.64
24:BA:1787:A:H2'	24:BA:1788:C:O4'	1.98	0.64
24:BA:1935:G:O2'	24:BA:1937:A:C2	2.40	0.64
24:BA:1977:A:C2	24:BA:1978:A:C4	2.86	0.64
24:BA:197:A:O4'	24:BA:2068:U:C2	2.50	0.64
24:BA:2213:U:C3'	24:BA:2213:U:O2	2.43	0.64
24:BA:2346:A:C1'	24:BA:2383:G:C8	2.74	0.64
24:BA:2481:G:O2'	24:BA:2482:G:C5'	2.46	0.64
24:BA:2592:G:O6	24:BA:2593:U:C4	2.51	0.64
24:BA:746:A:C8	24:BA:2612:C:O5'	2.50	0.64
24:BA:2625:G:H2'	24:BA:2626:C:C6	2.33	0.64
24:BA:2625:G:H3'	24:BA:2626:C:C5	2.33	0.64
24:BA:2663:G:H2'	24:BA:2664:G:C8	2.33	0.64
24:BA:270(W):G:C5	24:BA:270(X):G:C8	2.86	0.64
24:BA:2807:G:H2'	24:BA:2808:U:C5	2.32	0.64
24:BA:2850:A:N3	24:BA:2869:G:H4'	2.11	0.64
24:BA:642:G:H3'	24:BA:642:G:C8	2.33	0.64
25:BB:80:U:H2'	25:BB:81:G:C8	2.31	0.64
27:BD:148:GLU:CB	27:BD:154:LYS:HZ1	2.05	0.64
27:BD:247:ALA:O	27:BD:248:SER:O	2.15	0.64
28:BE:112:GLY:O	28:BE:159:HIS:HA	1.96	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:153:SER:H	29:BF:190:GLU:HG3	1.62	0.64
15:AP:3:ARG:HH21	30:BG:141:PHE:H	1.43	0.64
30:BG:74:LYS:HE2	30:BG:75:LYS:HE3	1.80	0.64
30:BG:60:LEU:CD2	30:BG:90:LEU:HD11	2.22	0.64
31:BH:87:LEU:O	31:BH:131:VAL:O	2.13	0.64
34:BM:127:ASP:N	34:BM:129:PRO:HD2	2.09	0.64
35:BN:77:ILE:HA	35:BN:78:ARG:NH1	2.13	0.64
37:BP:122:GLY:C	37:BP:124:LYS:N	2.47	0.64
38:BQ:86:ARG:HH12	38:BQ:87:TYR:HE2	1.43	0.64
39:BR:11:LYS:N	39:BR:11:LYS:CD	2.59	0.64
39:BR:75:GLU:CA	39:BR:78:LEU:HB3	2.27	0.64
42:BU:15:GLU:CA	42:BU:100:ARG:HH12	2.09	0.64
43:BV:34:ASN:ND2	43:BV:37:ARG:HH11	1.95	0.64
47:BZ:50:ASN:HA	47:BZ:62:LEU:HD13	1.78	0.64
47:BZ:31:VAL:CG1	47:BZ:67:VAL:HG22	2.28	0.64
26:BC:77:ILE:CD1	26:BC:123:VAL:HG13	2.27	0.64
31:BH:20:ALA:CB	31:BH:21:PRO:CD	2.76	0.64
1:AA:1072:G:C6	1:AA:1073:U:C4	2.86	0.64
1:AA:983:A:C1'	1:AA:1201:A:N7	2.59	0.64
1:AA:1404:C:C1'	1:AA:1499:A:N1	2.61	0.64
1:AA:1436:U:O5'	1:AA:1436:U:H6	1.80	0.64
1:AA:1471:G:H2'	1:AA:1472:U:C6	2.33	0.64
1:AA:55:A:H2'	1:AA:56:U:H5'	1.77	0.64
1:AA:689:C:C2	1:AA:690:G:C8	2.86	0.64
1:AA:959:A:H1'	1:AA:985:C:C1'	2.27	0.64
1:AA:982:U:H1'	1:AA:983:A:N6	2.12	0.64
4:AE:78:GLN:HE22	4:AE:96:ARG:NH2	1.96	0.64
1:AA:1100:C:C2'	4:AE:98:LEU:HD11	2.28	0.64
5:AF:51:GLY:O	5:AF:52:LEU:O	2.16	0.64
6:AG:110:PHE:O	6:AG:161:ASN:ND2	2.31	0.64
6:AG:20:TYR:C	6:AG:26:CYS:SG	2.75	0.64
7:AH:76:ILE:HG22	7:AH:78:HIS:CD2	2.33	0.64
8:AI:76:ALA:O	8:AI:80:ARG:HG3	1.98	0.64
10:AK:126:LYS:CD	10:AK:127:LEU:N	2.61	0.64
10:AK:29:SER:HB2	10:AK:32:LYS:HZ3	1.63	0.64
11:AL:117:HIS:HD2	11:AL:121:ARG:HD3	1.63	0.64
11:AL:28:VAL:O	11:AL:30:GLY:N	2.30	0.64
11:AL:38:GLN:O	11:AL:40:LEU:N	2.30	0.64
1:AA:528:C:H42	14:AO:49:ASN:HD21	1.43	0.64
15:AP:19:LEU:C	15:AP:25:ILE:HG21	2.18	0.64
16:AQ:40:CYS:HB2	16:AQ:42:ILE:HG13	1.80	0.64
17:AR:34:LEU:CG	17:AR:35:ARG:H	2.09	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:659:U:OP1	17:AR:9:GLN:NE2	2.31	0.64
21:AV:30:LEU:HA	21:AV:49:ILE:CA	2.26	0.64
22:AW:13:LEU:O	22:AW:14:LYS:C	2.36	0.64
49:B2:52:HIS:CE1	49:B2:53:LEU:HG	2.33	0.64
24:BA:1264:G:P	51:B4:15:ARG:HH11	2.21	0.64
55:B8:23:VAL:O	55:B8:36:GLN:HG2	1.96	0.64
24:BA:1288:U:C5'	24:BA:1289:C:OP2	2.40	0.64
24:BA:1372:U:C2'	24:BA:1373:A:H5'	2.27	0.64
24:BA:1498:C:H1'	24:BA:1576:U:H4'	1.80	0.64
24:BA:1759:A:H2'	24:BA:1760:A:O5'	1.97	0.64
24:BA:2283:C:C4	24:BA:2284:C:H1'	2.33	0.64
24:BA:2296:U:C3'	24:BA:2296:U:C6	2.79	0.64
24:BA:2469:A:H61	24:BA:2481:G:H1'	1.62	0.64
24:BA:2645:G:C8	24:BA:2645:G:OP2	2.50	0.64
24:BA:2720:U:H3'	24:BA:2721:A:C8	2.33	0.64
24:BA:348:G:H2'	24:BA:349:G:H8	1.63	0.64
24:BA:354:G:O2'	24:BA:355:G:H5'	1.98	0.64
24:BA:558:G:H5'	34:BM:112:LEU:CG	2.27	0.64
24:BA:565:C:O3'	24:BA:1253:A:H2	1.80	0.64
24:BA:76:C:H6	24:BA:76:C:O5'	1.81	0.64
24:BA:876:C:O5'	24:BA:876:C:H6	1.81	0.64
24:BA:950:G:C6	24:BA:951:C:C4	2.85	0.64
24:BA:964:C:O2'	24:BA:2273:A:C8	2.49	0.64
24:BA:969:U:C4	24:BA:970:C:C5	2.85	0.64
24:BA:987:G:OP2	49:B2:13:ILE:HD13	1.97	0.64
25:BB:47:C:H2'	25:BB:48:A:H5'	1.78	0.64
25:BB:76:G:H5'	46:BY:85:HIS:CE1	2.33	0.64
25:BB:95:U:H2'	25:BB:96:G:H8	1.63	0.64
27:BD:155:LEU:HG	27:BD:157:ARG:HE	1.57	0.64
27:BD:14:ARG:HB3	27:BD:15:PHE:CE1	2.33	0.64
27:BD:214:TRP:CH2	27:BD:219:PRO:HB3	2.32	0.64
28:BE:33:VAL:HG21	28:BE:77:ILE:HD11	1.79	0.64
30:BG:16:ARG:O	30:BG:17:PRO:C	2.34	0.64
30:BG:19:LEU:N	30:BG:19:LEU:HD12	2.13	0.64
30:BG:49:ASP:N	30:BG:53:LEU:HD13	2.13	0.64
32:BK:21:VAL:O	32:BK:22:LYS:O	2.16	0.64
33:BL:37:PHE:CE2	33:BL:65:PHE:HB2	2.33	0.64
34:BM:99:LEU:CD1	34:BM:100:GLU:N	2.60	0.64
35:BN:97:ARG:NE	35:BN:98:VAL:N	2.45	0.64
40:BS:54:ARG:H	40:BS:64:ARG:HB3	1.62	0.64
42:BU:5:VAL:HG12	42:BU:37:VAL:HG22	1.80	0.64
42:BU:62:LEU:HD13	42:BU:97:LYS:C	2.18	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:BV:34:ASN:HD22	43:BV:34:ASN:N	1.94	0.64
44:BW:43:VAL:HG12	44:BW:44:GLU:N	2.11	0.64
45:BX:47:LYS:HE2	45:BX:49:VAL:HG11	1.80	0.64
24:BA:2261:C:OP1	47:BZ:17:GLN:HB2	1.98	0.64
47:BZ:65:GLY:HA2	47:BZ:82:ARG:O	1.97	0.64
32:BK:76:THR:HG22	32:BK:141:LYS:HD2	1.80	0.64
32:BK:76:THR:CA	32:BK:141:LYS:HE2	2.27	0.64
1:AA:1154:G:H2'	1:AA:1155:G:C8	2.31	0.64
1:AA:791:G:H21	1:AA:1497:G:H4'	1.63	0.64
1:AA:1506:U:N3	1:AA:1522:U:OP1	2.25	0.64
1:AA:130:A:H4'	1:AA:190:G:N3	2.12	0.64
1:AA:287:U:C2'	1:AA:287:U:O2	2.46	0.64
1:AA:723:U:H5	2:A1:30:U:O2'	1.77	0.64
1:AA:731:G:O2'	1:AA:732:C:H5'	1.97	0.64
1:AA:740:U:H2'	1:AA:741:G:H8	1.63	0.64
3:AC:21:A:N7	3:AC:46:G:O6	2.30	0.64
4:AE:163:PHE:CE1	4:AE:186:ALA:HA	2.32	0.64
5:AF:134:ILE:HD11	5:AF:153:VAL:HG11	1.79	0.64
5:AF:53:ALA:CB	5:AF:115:LEU:HD21	2.27	0.64
6:AG:108:LEU:O	6:AG:110:PHE:N	2.30	0.64
6:AG:170:VAL:CG2	6:AG:176:LEU:HB3	2.28	0.64
8:AI:4:TYR:CZ	8:AI:72:VAL:HG11	2.33	0.64
8:AI:7:ASN:CG	8:AI:62:TRP:HD1	2.01	0.64
9:AJ:69:VAL:HB	9:AJ:104:LEU:HD11	1.80	0.64
9:AJ:111:ARG:HB3	9:AJ:111:ARG:HH11	1.62	0.64
10:AK:126:LYS:HE3	10:AK:127:LEU:HB2	1.80	0.64
1:AA:707:C:H4'	13:AN:20:TYR:CD2	2.32	0.64
13:AN:79:SER:HA	13:AN:104:GLN:CG	2.28	0.64
20:AU:74:ARG:H	20:AU:74:ARG:HD2	1.62	0.64
20:AU:74:ARG:HA	20:AU:79:LEU:HD13	1.76	0.64
21:AV:11:VAL:O	21:AV:12:ASP:O	2.16	0.64
21:AV:40:ILE:HG12	21:AV:71:LEU:CD2	2.28	0.64
22:AW:55:ILE:O	22:AW:56:MET:C	2.37	0.64
48:B1:27:LEU:CG	48:B1:48:LEU:HB3	2.28	0.64
24:BA:1184:G:OP1	49:B2:30:ARG:NH1	2.30	0.64
50:B3:52:THR:CG2	50:B3:53:GLU:H	2.06	0.64
24:BA:686:G:OP1	53:B6:11:LYS:HE2	1.98	0.64
24:BA:469:G:H1	53:B6:40:TRP:HE1	1.43	0.64
24:BA:1067:A:C6	24:BA:1068:G:O6	2.51	0.64
24:BA:1081:U:C5'	33:BL:122:ALA:HA	2.27	0.64
24:BA:973:A:C1'	24:BA:1188:U:C4	2.81	0.64
24:BA:1204:A:OP2	24:BA:1204:A:C1'	2.46	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1252:G:O2'	41:BT:33:ARG:NE	2.25	0.64
24:BA:1464:C:C4'	24:BA:1528:A:H1'	2.27	0.64
24:BA:1684:C:H2'	24:BA:1685:C:C6	2.33	0.64
24:BA:2020:A:N7	24:BA:2022:U:C4	2.66	0.64
24:BA:2094:G:C2	24:BA:2196:C:C2	2.86	0.64
24:BA:221:A:H3'	24:BA:221:A:C8	2.33	0.64
24:BA:2231:C:C2	24:BA:2232:U:C5	2.86	0.64
24:BA:2398:U:H2'	24:BA:2399:G:H8	1.62	0.64
24:BA:2400:G:H2'	24:BA:2401:U:O4'	1.98	0.64
24:BA:2526:G:H2'	24:BA:2527:C:O5'	1.97	0.64
24:BA:2599:G:O2'	24:BA:2600:A:H5'	1.96	0.64
24:BA:2709:G:O2'	24:BA:2710:C:H5'	1.98	0.64
24:BA:2793:G:C6	24:BA:2794:C:N4	2.66	0.64
24:BA:1710:C:H4'	24:BA:2858:C:N3	2.12	0.64
24:BA:371:A:N7	24:BA:424:G:O5'	2.30	0.64
24:BA:77:C:H2'	24:BA:78:A:C8	2.32	0.64
24:BA:821:A:N6	24:BA:972:G:O2'	2.31	0.64
24:BA:941:A:C2	24:BA:942:G:C4	2.85	0.64
24:BA:955:C:C2'	24:BA:956:G:O5'	2.46	0.64
25:BB:81:G:C6	25:BB:96:G:C6	2.86	0.64
25:BB:95:U:H2'	25:BB:96:G:C8	2.32	0.64
27:BD:134:ARG:O	27:BD:168:ARG:NH2	2.30	0.64
27:BD:14:ARG:HB3	27:BD:15:PHE:CD1	2.33	0.64
27:BD:90:ALA:HB2	27:BD:159:ALA:CB	2.27	0.64
27:BD:233:HIS:ND1	27:BD:233:HIS:N	2.45	0.64
27:BD:10:THR:N	27:BD:23:GLU:OE2	2.27	0.64
27:BD:246:PRO:HD2	27:BD:250:TRP:C	2.18	0.64
27:BD:8:PRO:CD	27:BD:26:LYS:O	2.44	0.64
31:BH:153:LYS:N	31:BH:154:PRO:CD	2.57	0.64
31:BH:26:VAL:CG2	31:BH:75:ALA:HB1	2.27	0.64
31:BH:66:GLY:O	31:BH:69:ARG:CG	2.46	0.64
32:BK:15:VAL:HG12	32:BK:16:GLY:H	1.60	0.64
24:BA:1068:G:OP1	33:BL:21:PRO:HB2	1.97	0.64
34:BM:91:LEU:O	34:BM:93:THR:N	2.31	0.64
36:BO:52:GLU:O	36:BO:55:ARG:HB2	1.98	0.64
24:BA:2851:A:H1'	38:BQ:61:HIS:CD2	2.33	0.64
24:BA:2882:A:OP1	38:BQ:96:ARG:NE	2.31	0.64
39:BR:97:ARG:HG3	39:BR:97:ARG:HH21	1.63	0.64
41:BT:102:GLU:O	41:BT:105:VAL:N	2.30	0.64
41:BT:40:PHE:CD2	42:BU:84:LYS:HG2	2.33	0.64
42:BU:21:ARG:O	42:BU:22:VAL:O	2.15	0.64
42:BU:66:ARG:NE	42:BU:95:LEU:HD12	2.11	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:152:ALA:O	46:BY:155:LEU:HB2	1.97	0.64
46:BY:4:ARG:HD3	46:BY:38:TYR:C	2.18	0.64
32:BK:69:LYS:O	32:BK:73:GLU:HG3	1.98	0.64
3:AD:8:U:OP1	3:AD:49:C:H5'	1.98	0.64
26:BC:41:VAL:HG13	26:BC:216:THR:HG22	1.80	0.64
1:AA:1376:U:H3	1:AA:1377:A:H62	1.45	0.64
1:AA:1064:G:OP1	1:AA:1386:G:C4'	2.46	0.64
1:AA:1392:G:O5'	1:AA:1392:G:H8	1.81	0.64
1:AA:254:G:H2'	1:AA:255:G:H8	1.63	0.64
1:AA:318:G:O2'	1:AA:1468:A:O2'	2.12	0.64
1:AA:362:G:O3'	14:AO:33:ARG:NH2	2.31	0.64
1:AA:529:G:N1	14:AO:49:ASN:HB3	2.10	0.64
1:AA:560:U:O4'	1:AA:566:G:N2	2.31	0.64
4:AE:115:LEU:HA	4:AE:118:LEU:HD12	1.80	0.64
6:AG:191:ARG:NH1	6:AG:192:GLU:HA	2.13	0.64
7:AH:62:ALA:O	7:AH:66:MET:SD	2.55	0.64
9:AJ:74:GLU:CG	9:AJ:75:VAL:N	2.61	0.64
10:AK:67:PRO:HD2	10:AK:77:GLU:H	1.62	0.64
10:AK:89:PRO:HB3	10:AK:92:ARG:HH21	1.63	0.64
13:AN:48:ILE:O	13:AN:49:GLY:C	2.36	0.64
15:AP:87:TYR:HB2	21:AV:73:GLU:O	1.98	0.64
19:AT:41:LYS:HG2	19:AT:42:TYR:N	2.11	0.64
19:AT:43:LEU:HD22	19:AT:44:ALA:O	1.97	0.64
20:AU:56:THR:O	20:AU:58:LEU:HG	1.97	0.64
51:B4:10:LYS:CD	51:B4:15:ARG:NH1	2.61	0.64
51:B4:18:ALA:C	51:B4:21:SER:OG	2.36	0.64
53:B6:1:MET:O	53:B6:3:ARG:N	2.31	0.64
53:B6:34:ARG:HH22	53:B6:42:LEU:CG	2.11	0.64
54:B7:6:THR:O	54:B7:7:HIS:C	2.36	0.64
24:BA:1044:G:N7	24:BA:1112:G:N2	2.45	0.64
24:BA:1195:G:C2'	24:BA:1226:G:N2	2.61	0.64
24:BA:1264:G:C3'	24:BA:1265:A:C5'	2.75	0.64
24:BA:1326:U:H2'	24:BA:1327:C:C5'	2.25	0.64
24:BA:149:A:C6	24:BA:150:C:C4	2.86	0.64
24:BA:18:C:O5'	24:BA:18:C:H6	1.80	0.64
24:BA:1975:G:O2'	24:BA:1976:U:H5'	1.97	0.64
24:BA:2020:A:P	41:BT:27:LEU:HD13	2.38	0.64
24:BA:2371:G:C2	24:BA:2372:G:C5	2.86	0.64
24:BA:2419:U:H5'	52:B5:23:THR:CG2	2.27	0.64
24:BA:2682:U:H2'	24:BA:2683:C:O5'	1.98	0.64
24:BA:2701:C:C3'	24:BA:2702:U:H5''	2.10	0.64
24:BA:270:A:N1	24:BA:370:G:C1'	2.56	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2714:G:C6	24:BA:2715:C:C5	2.85	0.64
24:BA:421:U:OP2	24:BA:421:U:H6	1.80	0.64
24:BA:722:A:H2'	24:BA:723:G:C8	2.27	0.64
24:BA:881:G:C4	24:BA:882:G:C8	2.85	0.64
25:BB:74:U:H5''	25:BB:75:G:OP2	1.98	0.64
27:BD:134:ARG:C	27:BD:136:ILE:H	2.01	0.64
27:BD:148:GLU:O	27:BD:149:PRO:O	2.16	0.64
27:BD:261:LYS:O	27:BD:262:ARG:C	2.36	0.64
27:BD:63:ARG:HD2	27:BD:85:ASP:CB	2.28	0.64
30:BG:68:PRO:HG3	30:BG:72:ARG:NH1	2.11	0.64
30:BG:94:LEU:HG	30:BG:98:ARG:CZ	2.27	0.64
31:BH:149:ARG:HA	31:BH:162:ILE:CG2	2.28	0.64
32:BK:9:LEU:CD2	32:BK:17:GLN:HE22	2.10	0.64
33:BL:37:PHE:HE2	33:BL:65:PHE:HB2	1.63	0.64
34:BM:107:LEU:HD13	34:BM:117:PHE:CZ	2.33	0.64
24:BA:558:G:H5''	34:BM:109:LYS:HG2	1.79	0.64
34:BM:87:LEU:CA	34:BM:90:MET:HB2	2.28	0.64
36:BO:76:LYS:HZ2	36:BO:99:LEU:HD12	1.62	0.64
37:BP:27:VAL:CG1	37:BP:104:PHE:HE2	2.11	0.64
37:BP:42:ILE:HG12	37:BP:126:PRO:HG3	1.80	0.64
24:BA:535:C:C4'	41:BT:53:ARG:HD2	2.27	0.64
44:BW:49:VAL:C	44:BW:50:LYS:HD3	2.19	0.64
44:BW:7:VAL:HG11	48:B1:31:ARG:NH2	2.11	0.64
45:BX:57:GLN:O	45:BX:58:GLY:O	2.16	0.64
46:BY:153:SER:CB	46:BY:168:GLU:HB2	2.27	0.64
47:BZ:23:VAL:CA	47:BZ:38:VAL:HG13	2.27	0.64
32:BK:125:GLU:O	32:BK:126:TYR:CD1	2.51	0.64
26:BC:47:LEU:HD23	26:BC:47:LEU:H	1.62	0.64
26:BC:59:ARG:HD3	26:BC:164:ARG:CG	2.28	0.64
24:BA:1511:A:C2'	24:BA:1512:G:H5''	2.28	0.64
33:BL:14:ALA:HB1	33:BL:45:THR:HB	1.80	0.64
32:BK:135:GLU:N	32:BK:135:GLU:CD	2.51	0.64
2:A1:35:U:O3'	2:A1:36:U:O4'	2.16	0.64
1:AA:1005:A:H1'	1:AA:1036:G:N2	2.12	0.64
1:AA:1084:G:C4	1:AA:1085:U:C5	2.80	0.64
1:AA:1274:G:N2	1:AA:1275:A:N6	2.46	0.64
1:AA:127:G:C2'	1:AA:128:G:H5'	2.28	0.64
1:AA:1310:G:H3'	21:AV:2:PRO:CD	2.21	0.64
1:AA:1519:A:C2'	1:AA:1520:G:H5'	2.27	0.64
1:AA:50:A:C2	1:AA:360:A:N3	2.65	0.64
1:AA:687:A:O2'	1:AA:688:G:P	2.56	0.64
1:AA:80:G:N3	1:AA:81:G:H1'	2.13	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:967:C:C6	1:AA:967:C:O5'	2.50	0.64
1:AA:981:U:O5'	1:AA:981:U:C6	2.51	0.64
4:AE:169:LYS:HE2	4:AE:170:GLU:N	2.13	0.64
4:AE:175:ARG:HA	4:AE:178:ARG:HB2	1.80	0.64
4:AE:76:GLN:O	4:AE:77:ALA:HB2	1.98	0.64
5:AF:157:ILE:HG13	5:AF:164:ARG:HG2	1.80	0.64
5:AF:8:ILE:CG1	5:AF:16:ARG:HD2	2.28	0.64
11:AL:113:LYS:HD2	11:AL:113:LYS:N	2.13	0.64
11:AL:113:LYS:NZ	11:AL:119:ALA:HB1	2.13	0.64
14:AO:117:ARG:NH2	14:AO:124:LYS:HG3	2.13	0.64
15:AP:14:ARG:HB3	15:AP:44:ARG:HD2	1.79	0.64
5:AF:29:TYR:HB3	16:AQ:36:PHE:HE1	1.63	0.64
17:AR:65:ARG:O	17:AR:68:ARG:CB	2.45	0.64
49:B2:23:LEU:HA	49:B2:28:LEU:CD1	2.27	0.64
52:B5:25:LYS:O	52:B5:26:ASN:CB	2.44	0.64
24:BA:1056:G:H21	24:BA:1104:C:N4	1.96	0.64
24:BA:1165:U:H2'	24:BA:1166:C:C5	2.33	0.64
24:BA:1306:C:C2	24:BA:1307:A:C8	2.86	0.64
24:BA:1491:G:N1	24:BA:1493:C:N4	2.43	0.64
24:BA:1538:G:O2'	24:BA:1539:G:H5'	1.98	0.64
24:BA:1878:G:H2'	24:BA:1879:C:C6	2.33	0.64
24:BA:2025:C:C2'	24:BA:2026:C:C6	2.76	0.64
24:BA:2033:A:O2'	24:BA:2034:U:OP1	2.16	0.64
24:BA:2329:G:H2'	24:BA:2330:G:C8	2.33	0.64
24:BA:2532:G:O2'	24:BA:2533:A:H5'	1.98	0.64
24:BA:2733:A:C2'	24:BA:2734:A:O5'	2.44	0.64
24:BA:283:A:O2'	24:BA:284:U:H5'	1.98	0.64
24:BA:391:G:H2'	24:BA:392:C:C5	2.32	0.64
24:BA:516:C:O5'	24:BA:516:C:H6	1.80	0.64
24:BA:638:G:H3'	24:BA:638:G:C8	2.33	0.64
24:BA:684:G:C6	24:BA:775:G:N7	2.66	0.64
24:BA:83:G:H1	24:BA:102:G:HO2'	1.46	0.64
25:BB:30:C:O4'	25:BB:58:A:H2	1.81	0.64
24:BA:1820:U:C5	27:BD:159:ALA:HB3	2.32	0.64
27:BD:214:TRP:O	27:BD:217:ARG:N	2.31	0.64
30:BG:126:ASP:HA	30:BG:166:ASP:CG	2.18	0.64
30:BG:16:ARG:HD2	30:BG:20:ILE:CG1	2.25	0.64
30:BG:53:LEU:CD2	30:BG:71:THR:N	2.61	0.64
30:BG:75:LYS:HZ3	30:BG:85:GLY:HA3	1.63	0.64
33:BL:10:LEU:HD12	33:BL:23:VAL:CG2	2.28	0.64
34:BM:2:LYS:N	41:BT:61:TRP:CZ2	2.66	0.64
34:BM:72:TYR:C	34:BM:72:TYR:CD2	2.71	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1131:G:C4	34:BM:74:ARG:NE	2.66	0.64
34:BM:87:LEU:O	34:BM:91:LEU:HD21	1.97	0.64
37:BP:34:LEU:CD1	37:BP:105:GLU:HB2	2.27	0.64
37:BP:32:TYR:HE2	37:BP:108:GLY:H	1.45	0.64
37:BP:66:ILE:C	37:BP:67:ARG:HG2	2.19	0.64
24:BA:1650:G:H5'	38:BQ:104:ARG:HH21	1.63	0.64
38:BQ:17:ARG:CG	38:BQ:18:LEU:N	2.60	0.64
38:BQ:44:LEU:HD13	38:BQ:48:VAL:HG21	1.80	0.64
38:BQ:75:LEU:CD2	38:BQ:78:LYS:HG2	2.28	0.64
34:BM:4:TYR:CB	41:BT:64:ARG:NH1	2.60	0.64
45:BX:47:LYS:CB	45:BX:49:VAL:HG13	2.28	0.64
46:BY:18:LEU:HD22	46:BY:23:LYS:CG	2.28	0.64
46:BY:76:LEU:HD23	46:BY:83:PRO:HB3	1.80	0.64
47:BZ:21:LEU:O	47:BZ:24:LYS:HE3	1.98	0.64
47:BZ:31:VAL:CG2	47:BZ:65:GLY:O	2.45	0.64
32:BK:76:THR:HA	32:BK:141:LYS:HE2	1.80	0.64
26:BC:131:LEU:HD22	26:BC:136:LEU:O	1.98	0.64
26:BC:26:ALA:O	26:BC:30:LYS:HG3	1.98	0.64
3:AB:72:C:N4	3:AB:73:A:H62	1.95	0.64
32:BK:133:HIS:ND1	32:BK:134:PRO:HD2	2.13	0.64
1:AA:1346:A:H8	1:AA:1348:U:C2	2.16	0.63
1:AA:922:G:O2'	1:AA:1398:A:N1	2.27	0.63
1:AA:184:G:C4'	1:AA:224:C:H4'	2.28	0.63
1:AA:236:G:C4	1:AA:237:C:C5	2.86	0.63
1:AA:378:G:H2'	1:AA:379:C:C6	2.33	0.63
1:AA:936:C:H2'	1:AA:937:A:O4'	1.97	0.63
1:AA:966:G:H2'	1:AA:967:C:C6	2.33	0.63
1:AA:981:U:H6	1:AA:981:U:H3'	1.61	0.63
3:AC:74:C:H2'	3:AC:75:C:C5'	2.28	0.63
4:AE:155:LEU:HB3	4:AE:159:PRO:HG3	1.79	0.63
4:AE:175:ARG:HA	4:AE:178:ARG:HG3	1.80	0.63
4:AE:64:ARG:H	4:AE:64:ARG:HD2	1.63	0.63
1:AA:1206:G:H4'	5:AF:192:THR:C	2.19	0.63
5:AF:191:THR:O	5:AF:193:TYR:N	2.31	0.63
6:AG:199:ASN:CG	6:AG:200:GLU:H	1.99	0.63
5:AF:131:ARG:HH12	7:AH:51:VAL:HG23	1.62	0.63
8:AI:60:PHE:CD1	8:AI:60:PHE:N	2.66	0.63
9:AJ:143:ARG:CD	9:AJ:144:MET:H	2.11	0.63
9:AJ:69:VAL:HG11	9:AJ:104:LEU:CD2	2.27	0.63
10:AK:102:ARG:CB	10:AK:102:ARG:CZ	2.69	0.63
12:AM:49:VAL:O	12:AM:60:ARG:HB3	1.98	0.63
14:AO:83:VAL:HA	14:AO:104:VAL:O	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AP:49:THR:HB	15:AP:52:GLU:OE1	1.97	0.63
22:AW:85:MET:HA	22:AW:88:VAL:CG2	2.28	0.63
1:AA:1243:C:OP1	23:AX:10:ARG:HD2	1.98	0.63
24:BA:931:G:N3	49:B2:24:LYS:HE3	2.12	0.63
50:B3:47:GLN:HA	50:B3:52:THR:OG1	1.99	0.63
24:BA:1005:C:C1'	24:BA:1012:U:O2	2.46	0.63
24:BA:1022:G:H3'	24:BA:1025:G:O6	1.97	0.63
24:BA:1023:U:P	24:BA:1025:G:H1	2.19	0.63
24:BA:105:C:C2	24:BA:106:C:H5	2.16	0.63
24:BA:942:G:O2'	24:BA:1189:A:N3	2.29	0.63
24:BA:1202:C:C6	24:BA:1203:G:C1'	2.71	0.63
24:BA:1273:U:H5''	24:BA:1646:C:N4	2.13	0.63
24:BA:1717:G:C2	24:BA:1718:G:N3	2.66	0.63
24:BA:1858:G:O6	24:BA:1883:G:C6	2.51	0.63
24:BA:2216:G:H21	27:BD:150:LYS:HZ3	1.45	0.63
24:BA:2226:C:C2'	24:BA:2226:C:O2	2.47	0.63
24:BA:2273:A:N7	24:BA:2274:A:N9	2.46	0.63
24:BA:2282:G:H5''	24:BA:2283:C:O5'	1.98	0.63
24:BA:231:C:C4	24:BA:232:G:N2	2.66	0.63
24:BA:241:A:H2'	24:BA:242:G:H4'	1.79	0.63
24:BA:826:U:H5''	24:BA:2429:G:P	2.37	0.63
24:BA:2491:U:C6	24:BA:2492:U:P	2.90	0.63
24:BA:2250:G:O2'	24:BA:2496:C:H5'	1.98	0.63
24:BA:2531:A:N3	24:BA:2658:C:O2'	2.22	0.63
24:BA:2700:C:C3'	24:BA:2701:C:H5''	2.28	0.63
24:BA:2746:U:O4	24:BA:2756:U:H5	1.77	0.63
24:BA:324:A:C8	24:BA:340:A:H1'	2.33	0.63
24:BA:556:G:H8	24:BA:556:G:O5'	1.82	0.63
24:BA:885:C:C5	24:BA:887:A:H1'	2.34	0.63
25:BB:14:U:H1'	25:BB:107:U:H1'	1.78	0.63
25:BB:8:U:C2	25:BB:9:G:C8	2.86	0.63
25:BB:90:C:O2'	25:BB:91:C:H5'	1.97	0.63
27:BD:135:PHE:O	27:BD:137:PRO:HD3	1.98	0.63
27:BD:159:ALA:HB3	27:BD:202:LYS:NZ	2.12	0.63
27:BD:57:GLY:C	27:BD:58:HIS:ND1	2.51	0.63
28:BE:102:VAL:HG22	28:BE:103:ASP:N	2.12	0.63
28:BE:41:LYS:N	28:BE:41:LYS:HE3	2.12	0.63
30:BG:130:ASN:O	30:BG:159:VAL:O	2.16	0.63
30:BG:181:ARG:HH21	30:BG:181:ARG:H	1.44	0.63
30:BG:38:VAL:HG12	30:BG:93:THR:HA	1.79	0.63
31:BH:89:ILE:O	31:BH:129:THR:O	2.16	0.63
34:BM:12:ARG:HB3	34:BM:12:ARG:CZ	2.26	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BN:70:LYS:HB3	35:BN:72:PRO:HD2	1.78	0.63
36:BO:114:ILE:N	36:BO:114:ILE:HD13	2.13	0.63
37:BP:36:ALA:O	37:BP:37:LEU:CG	2.47	0.63
38:BQ:98:LEU:HD23	38:BQ:99:LYS:HZ2	1.62	0.63
39:BR:64:GLU:O	39:BR:65:VAL:C	2.36	0.63
40:BS:49:VAL:C	40:BS:50:ILE:HG12	2.17	0.63
35:BN:121:VAL:C	40:BS:70:VAL:O	2.36	0.63
24:BA:563:G:N2	41:BT:34:LYS:CE	2.60	0.63
24:BA:2018:G:N3	41:BT:34:LYS:NZ	2.47	0.63
41:BT:44:ASN:O	41:BT:47:TYR:CB	2.27	0.63
43:BV:6:ILE:HA	43:BV:103:ILE:O	1.98	0.63
44:BW:39:ILE:HB	44:BW:54:VAL:HG11	1.78	0.63
46:BY:100:VAL:CG2	46:BY:137:ILE:HD12	2.20	0.63
46:BY:141:VAL:CG1	46:BY:142:SER:H	2.10	0.63
46:BY:46:LYS:O	46:BY:49:ARG:HB3	1.97	0.63
46:BY:48:PHE:HD2	46:BY:54:HIS:NE2	1.92	0.63
24:BA:2160:G:H2'	24:BA:2161:C:H6	1.60	0.63
26:BC:130:ILE:N	26:BC:130:ILE:CD1	2.61	0.63
26:BC:41:VAL:CG2	26:BC:216:THR:HG22	2.26	0.63
33:BL:98:ARG:HB3	33:BL:139:VAL:HB	1.80	0.63
9:AJ:67:GLU:OE2	9:AJ:67:GLU:HA	1.97	0.63
1:AA:1003:G:C4	1:AA:1004:A:H1'	2.32	0.63
1:AA:1079:G:C2	1:AA:1080:A:N1	2.65	0.63
1:AA:301:G:N2	1:AA:302:G:C1'	2.61	0.63
1:AA:307:C:N4	1:AA:308:C:C5	2.66	0.63
1:AA:493:G:H2'	1:AA:494:U:H5	1.63	0.63
1:AA:620:C:O2'	1:AA:621:A:H5'	1.98	0.63
1:AA:627:G:H2'	1:AA:628:G:H8	1.63	0.63
1:AA:611:A:N6	1:AA:629:G:N1	2.25	0.63
1:AA:640:A:O2'	1:AA:641:U:H5'	1.98	0.63
1:AA:701:C:H5''	1:AA:702:A:H3'	1.79	0.63
1:AA:585:G:N3	1:AA:879:C:H4'	2.13	0.63
1:AA:907:A:OP1	1:AA:907:A:H4'	1.98	0.63
1:AA:978:A:H8	1:AA:980:C:H41	1.45	0.63
4:AE:97:TRP:NE1	4:AE:101:MET:SD	2.72	0.63
8:AI:14:LEU:HD13	8:AI:15:ASP:N	2.13	0.63
8:AI:45:LEU:HG	8:AI:59:TYR:CD1	2.34	0.63
11:AL:19:LEU:HD23	11:AL:20:ARG:N	2.12	0.63
13:AN:23:ALA:HB1	13:AN:28:THR:OG1	1.99	0.63
14:AO:32:PHE:HB2	14:AO:84:LEU:HD21	1.80	0.63
14:AO:53:ARG:CZ	14:AO:93:LEU:HD22	2.28	0.63
14:AO:93:LEU:N	14:AO:93:LEU:HD23	2.11	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:12:LEU:HD21	16:AQ:58:LYS:N	2.13	0.63
1:AA:581:G:H4'	17:AR:64:ARG:NH1	2.13	0.63
18:AS:27:LYS:NZ	18:AS:27:LYS:H	1.96	0.63
18:AS:14:ASN:HA	18:AS:42:ARG:NH1	2.13	0.63
21:AV:18:LYS:CA	21:AV:18:LYS:HE3	2.20	0.63
50:B3:52:THR:O	50:B3:53:GLU:HB2	1.98	0.63
53:B6:22:MET:HA	53:B6:28:ARG:HG2	1.80	0.63
53:B6:43:THR:HG23	53:B6:46:VAL:CB	2.28	0.63
54:B7:52:LYS:O	54:B7:54:GLU:N	2.28	0.63
24:BA:10:G:C2	24:BA:2629:A:C2	2.86	0.63
24:BA:1323:U:O2'	24:BA:1324:G:OP1	2.15	0.63
24:BA:1335:U:OP2	44:BW:65:ARG:NE	2.31	0.63
24:BA:1336:A:H2'	24:BA:1337:G:C8	2.33	0.63
24:BA:1359:A:N1	24:BA:1360:A:C4	2.67	0.63
24:BA:1459:G:O6	24:BA:1461:G:C2	2.51	0.63
24:BA:1518:C:H2'	24:BA:1519:G:H4'	1.79	0.63
24:BA:1529:A:H3'	24:BA:1530:G:H8	1.62	0.63
24:BA:1665:A:O2'	35:BN:1:MET:HG3	1.98	0.63
24:BA:1670:C:O5'	24:BA:1671:U:H5	1.81	0.63
24:BA:1859:A:C8	24:BA:1860:G:C8	2.85	0.63
24:BA:1904:G:H2'	24:BA:1905:C:O5'	1.98	0.63
24:BA:223:A:C5	24:BA:408:G:H1'	2.33	0.63
24:BA:2376:A:N3	24:BA:2377:A:H1'	2.13	0.63
24:BA:247:G:N2	24:BA:249:C:O2'	2.31	0.63
24:BA:2542:A:O2'	24:BA:2543:G:H5'	1.99	0.63
24:BA:2644:G:O5'	24:BA:2644:G:C8	2.48	0.63
24:BA:2749:A:H5'	31:BH:62:LYS:C	2.18	0.63
24:BA:2772:C:C2	24:BA:2773:C:C5	2.86	0.63
24:BA:64:A:O5'	24:BA:64:A:H8	1.82	0.63
24:BA:651:G:H2'	24:BA:652:C:O4'	1.98	0.63
24:BA:720:C:H2'	24:BA:721:C:C6	2.33	0.63
24:BA:792:G:H21	24:BA:2072:G:C1'	2.10	0.63
24:BA:910:A:N6	24:BA:911:A:N6	2.45	0.63
27:BD:107:ALA:H	27:BD:108:PRO:CD	2.10	0.63
27:BD:206:LEU:N	27:BD:206:LEU:CD1	2.59	0.63
24:BA:1790:C:O2'	27:BD:213:ARG:NH2	2.32	0.63
27:BD:50:THR:C	27:BD:51:VAL:HG22	2.19	0.63
27:BD:57:GLY:H	27:BD:217:ARG:CD	2.08	0.63
27:BD:62:TYR:CD1	27:BD:62:TYR:N	2.63	0.63
28:BE:179:GLU:O	28:BE:181:LEU:N	2.31	0.63
29:BF:65:TRP:CD2	29:BF:66:PRO:HD2	2.33	0.63
29:BF:7:TYR:CD2	29:BF:119:ARG:HB3	2.33	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1257:C:HO2'	29:BF:83:PHE:HD1	1.46	0.63
30:BG:60:LEU:HD21	30:BG:90:LEU:CD1	2.24	0.63
30:BG:53:LEU:CD2	30:BG:71:THR:H	2.08	0.63
31:BH:169:VAL:O	31:BH:169:VAL:HG23	1.97	0.63
32:BK:9:LEU:HA	32:BK:17:GLN:CD	2.19	0.63
33:BL:112:MET:O	33:BL:115:LEU:HB3	1.99	0.63
33:BL:40:ALA:O	33:BL:43:ALA:HB3	1.98	0.63
35:BN:90:GLN:NE2	35:BN:110:GLY:O	2.31	0.63
38:BQ:63:ARG:NH1	38:BQ:80:PHE:CD2	2.67	0.63
39:BR:11:LYS:HB3	39:BR:15:ARG:NH2	2.12	0.63
40:BS:53:ARG:HH22	40:BS:102:ILE:N	1.95	0.63
41:BT:102:GLU:O	41:BT:105:VAL:CG1	2.44	0.63
41:BT:19:LYS:HB2	41:BT:19:LYS:HZ2	1.63	0.63
42:BU:5:VAL:CG1	42:BU:38:LEU:O	2.46	0.63
43:BV:48:ALA:HA	43:BV:51:LEU:CD2	2.26	0.63
43:BV:5:ALA:HB2	43:BV:54:ALA:CB	2.22	0.63
43:BV:74:ALA:HB1	43:BV:105:VAL:CG2	2.28	0.63
45:BX:108:THR:HG22	45:BX:109:GLU:OE1	1.97	0.63
46:BY:29:TYR:O	46:BY:89:PHE:HA	1.99	0.63
46:BY:63:ASP:CG	46:BY:64:GLY:N	2.51	0.63
3:AD:19:G:H21	3:AD:57:G:C1'	2.08	0.63
3:AD:59:U:O2	3:AD:59:U:H2'	1.97	0.63
24:BA:2128:C:H5''	26:BC:218:MET:CE	2.28	0.63
24:BA:2150:U:H2'	24:BA:2151:G:H8	1.63	0.63
26:BC:102:LYS:NZ	26:BC:107:TRP:HB2	2.14	0.63
26:BC:111:ASP:O	26:BC:136:LEU:HD23	1.99	0.63
26:BC:41:VAL:HA	26:BC:216:THR:HA	1.80	0.63
30:BG:51:ARG:HH21	30:BG:51:ARG:N	1.96	0.63
1:AA:1004:A:O2'	1:AA:1005:A:O5'	2.16	0.63
1:AA:1252:A:C6	1:AA:1253:G:N7	2.65	0.63
1:AA:927:G:H4'	1:AA:1503:A:N7	2.13	0.63
1:AA:236:G:H2'	1:AA:236:G:N3	2.12	0.63
1:AA:54:C:N4	1:AA:352:C:H2'	2.14	0.63
1:AA:494:U:H2'	1:AA:494:U:O2	1.97	0.63
1:AA:569:C:H1'	1:AA:574:A:C2	2.33	0.63
1:AA:817:C:O2'	1:AA:818:G:O5'	2.15	0.63
1:AA:961:U:C5	1:AA:983:A:N6	2.66	0.63
3:AB:31:A:H2'	3:AB:32:U:H5'	1.81	0.63
5:AF:152:ILE:HG22	5:AF:167:TRP:HB3	1.81	0.63
5:AF:57:ILE:HG22	5:AF:59:ARG:HH21	1.63	0.63
6:AG:14:ARG:C	6:AG:14:ARG:HD3	2.18	0.63
7:AH:9:LYS:CG	7:AH:112:LEU:HG	2.27	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AJ:29:LYS:CD	9:AJ:101:LEU:HD22	2.28	0.63
9:AJ:113:GLU:CB	9:AJ:118:VAL:HG11	2.29	0.63
9:AJ:44:TYR:O	9:AJ:47:CYS:N	2.32	0.63
10:AK:40:ALA:HA	10:AK:45:ILE:HG23	1.81	0.63
12:AM:8:LEU:HD22	12:AM:94:VAL:HG12	1.80	0.63
13:AN:62:GLN:O	13:AN:65:ALA:HB3	1.98	0.63
13:AN:75:TYR:O	13:AN:77:MET:N	2.30	0.63
1:AA:363:A:C8	14:AO:31:PRO:HD2	2.33	0.63
19:AT:78:GLU:HG2	19:AT:81:ARG:HB2	1.80	0.63
20:AU:66:LEU:CD1	20:AU:67:ALA:N	2.52	0.63
21:AV:36:ARG:HA	21:AV:71:LEU:HD12	1.80	0.63
21:AV:5:LEU:HB2	21:AV:9:VAL:CG2	2.11	0.63
48:B1:50:ARG:O	48:B1:53:ALA:HB3	1.98	0.63
49:B2:31:LEU:O	49:B2:31:LEU:HD13	1.99	0.63
50:B3:42:PHE:N	50:B3:58:ARG:HH11	1.95	0.63
24:BA:2286:A:OP2	52:B5:27:LYS:HE2	1.97	0.63
54:B7:39:LYS:HA	54:B7:42:ARG:HD3	1.80	0.63
24:BA:1001:A:N7	24:BA:1002:G:C4	2.66	0.63
24:BA:85:G:N3	24:BA:103:A:C2	2.65	0.63
24:BA:1069:A:H2'	24:BA:1074:G:O6	1.98	0.63
24:BA:1155:A:C2'	24:BA:1156:A:C5'	2.75	0.63
24:BA:119:A:H4'	24:BA:120:U:H5'	1.80	0.63
24:BA:49:A:H2	24:BA:120:U:H3	1.43	0.63
24:BA:1296:G:H2'	24:BA:1297:C:H6	1.62	0.63
24:BA:1475:G:N3	24:BA:1475:G:H2'	2.11	0.63
24:BA:1546:C:H4'	24:BA:1547:C:C5	2.33	0.63
24:BA:1695:G:H1'	27:BD:15:PHE:HB3	1.80	0.63
24:BA:1801:G:N7	24:BA:2207:C:O2'	2.31	0.63
24:BA:2404:C:C2	24:BA:2414:G:N2	2.65	0.63
24:BA:2459:A:OP2	24:BA:2460:U:C5	2.51	0.63
24:BA:2553:G:N2	24:BA:2554:U:C2'	2.61	0.63
24:BA:461:C:O2	24:BA:461:C:H2'	1.99	0.63
24:BA:638:G:H2'	24:BA:639:U:H5'	1.81	0.63
24:BA:703:U:H3'	24:BA:704:G:C8	2.32	0.63
24:BA:806:C:O5'	24:BA:806:C:H6	1.81	0.63
24:BA:997:G:H2'	24:BA:998:C:C5	2.32	0.63
27:BD:175:LEU:O	27:BD:175:LEU:HD13	1.98	0.63
27:BD:232:PRO:HG2	27:BD:246:PRO:C	2.18	0.63
27:BD:246:PRO:HG2	27:BD:251:GLY:O	1.98	0.63
27:BD:7:LYS:HZ2	27:BD:91:ARG:HD2	1.62	0.63
28:BE:38:THR:HG1	28:BE:44:TYR:HB2	1.64	0.63
28:BE:58:ARG:NH2	28:BE:73:GLU:OE2	2.32	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:106:ARG:HB2	29:BF:106:ARG:HH21	1.63	0.63
30:BG:114:ILE:HD12	30:BG:115:ARG:N	2.13	0.63
30:BG:131:TYR:CG	30:BG:158:ALA:HA	2.32	0.63
30:BG:9:ARG:HG2	30:BG:13:GLU:CD	2.19	0.63
30:BG:19:LEU:HG	30:BG:22:ARG:NH2	2.13	0.63
31:BH:60:ARG:HG2	31:BH:64:LEU:CD1	2.27	0.63
32:BK:15:VAL:CG1	32:BK:16:GLY:N	2.61	0.63
32:BK:26:ALA:HA	32:BK:30:LEU:HD23	1.81	0.63
24:BA:1059:G:O4'	33:BL:116:ASN:ND2	2.31	0.63
33:BL:35:MET:SD	33:BL:39:LYS:HG3	2.38	0.63
34:BM:89:LYS:HA	34:BM:92:ALA:HB3	1.79	0.63
34:BM:93:THR:O	34:BM:94:HIS:HD2	1.81	0.63
36:BO:80:TYR:CZ	36:BO:85:LEU:HD22	2.34	0.63
36:BO:91:PHE:CE2	36:BO:96:THR:HG22	2.32	0.63
37:BP:134:ARG:HG3	37:BP:134:ARG:HH11	1.63	0.63
37:BP:43:THR:CG2	37:BP:46:GLN:HB2	2.27	0.63
38:BQ:22:ARG:HG2	38:BQ:70:LEU:HD22	1.78	0.63
38:BQ:39:PRO:O	38:BQ:40:LYS:C	2.36	0.63
38:BQ:53:HIS:HA	38:BQ:56:LYS:HD3	1.80	0.63
39:BR:23:ARG:HH11	39:BR:42:ASP:H	1.46	0.63
40:BS:28:VAL:HG12	40:BS:30:VAL:HG12	1.81	0.63
42:BU:38:LEU:H	42:BU:38:LEU:HD23	1.63	0.63
42:BU:3:ALA:HB2	42:BU:44:LYS:CD	2.28	0.63
25:BB:75:G:H21	46:BY:27:VAL:CG2	2.10	0.63
47:BZ:59:LEU:HD22	47:BZ:79:VAL:HG21	1.81	0.63
47:BZ:65:GLY:CA	47:BZ:81:VAL:HG12	2.25	0.63
24:BA:2115:G:O2'	24:BA:2117:A:N6	2.27	0.63
26:BC:30:LYS:HZ1	26:BC:182:PRO:HD3	1.58	0.63
26:BC:189:ILE:HD13	26:BC:224:ILE:CD1	2.28	0.63
26:BC:45:ALA:HB1	26:BC:211:SER:O	1.98	0.63
1:AA:489:C:O2'	1:AA:490:G:H5'	1.98	0.63
1:AA:1520:G:C2'	1:AA:1521:G:H8	2.11	0.63
1:AA:185:A:H2'	1:AA:186:C:H6	1.61	0.63
1:AA:50:A:C6	1:AA:361:G:H4'	2.33	0.63
1:AA:372:C:N4	1:AA:389:A:H62	1.95	0.63
1:AA:218:C:H5'	1:AA:466:C:H41	1.64	0.63
1:AA:481:G:H5'	1:AA:482:A:OP1	1.97	0.63
1:AA:581:G:H2'	1:AA:582:U:OP2	1.98	0.63
3:AC:74:C:C3'	3:AC:75:C:H5''	2.29	0.63
4:AE:25:ASN:O	4:AE:27:LYS:N	2.31	0.63
4:AE:87:ARG:O	4:AE:89:GLY:N	2.32	0.63
5:AF:172:ARG:CZ	5:AF:172:ARG:HB3	2.27	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:154:ASN:HD22	6:AG:155:LEU:HD22	1.62	0.63
1:AA:736:C:H4'	8:AI:89:MET:SD	2.38	0.63
9:AJ:42:ILE:CG2	9:AJ:120:ILE:HD11	2.29	0.63
9:AJ:72:ARG:HH22	9:AJ:138:LYS:NZ	1.96	0.63
13:AN:91:ARG:CG	13:AN:95:ILE:HD11	2.29	0.63
16:AQ:16:PHE:O	16:AQ:18:VAL:N	2.32	0.63
18:AS:35:LYS:O	18:AS:36:ILE:HG23	1.98	0.63
19:AT:3:LYS:HD3	19:AT:61:GLU:O	1.97	0.63
24:BA:852:G:C5'	49:B2:45:GLY:HA3	2.27	0.63
51:B4:48:GLU:CA	51:B4:58:LEU:HG	2.29	0.63
53:B6:31:LEU:C	53:B6:35:ARG:HD3	2.18	0.63
24:BA:1214:A:H62	24:BA:1236:G:N2	1.96	0.63
24:BA:1242:A:OP1	24:BA:1242:A:O4'	2.16	0.63
24:BA:1290:C:H2'	24:BA:1291:C:H6	1.62	0.63
24:BA:1310:G:N7	24:BA:1311:G:N2	2.46	0.63
24:BA:1572:A:OP1	24:BA:1572:A:O4'	2.16	0.63
24:BA:1826:G:O5'	24:BA:1826:G:H8	1.81	0.63
1:AA:784:C:H4'	24:BA:1837:C:OP1	1.98	0.63
24:BA:2098:U:H2'	24:BA:2099:U:C6	2.34	0.63
24:BA:2320:A:H1'	24:BA:2333:A:C6	2.33	0.63
24:BA:2439:A:H4'	24:BA:2440:C:O5'	1.99	0.63
24:BA:2456:C:HO2'	24:BA:2457:U:H5'	1.63	0.63
24:BA:2460:U:H2'	24:BA:2461:C:C6	2.33	0.63
24:BA:242:G:H2'	24:BA:254:G:N1	2.13	0.63
24:BA:2516:G:O6	24:BA:2567:G:O6	2.15	0.63
24:BA:2709:G:H2'	24:BA:2710:C:H5'	1.80	0.63
24:BA:364:C:C2	24:BA:365:C:C4	2.86	0.63
24:BA:399:G:C5	24:BA:400:G:H1'	2.33	0.63
24:BA:442:G:H4'	29:BF:46:ARG:CG	2.26	0.63
24:BA:35:G:C4	24:BA:454:A:C2	2.86	0.63
24:BA:531:C:C5'	24:BA:532:A:C2	2.82	0.63
24:BA:930:U:O2'	24:BA:931:G:P	2.55	0.63
24:BA:996:A:O3'	41:BT:93:LYS:HG2	1.98	0.63
24:BA:997:G:C5'	41:BT:92:ARG:NH1	2.54	0.63
24:BA:9:U:O2	24:BA:9:U:H2'	1.97	0.63
25:BB:6:C:H4'	25:BB:28:C:H5'	1.81	0.63
25:BB:71:C:H2'	25:BB:72:G:C4'	2.28	0.63
27:BD:39:LYS:HD2	27:BD:39:LYS:N	2.13	0.63
28:BE:59:VAL:HB	28:BE:62:PRO:CD	2.28	0.63
28:BE:98:PRO:HA	28:BE:172:VAL:HG23	1.79	0.63
29:BF:176:LEU:C	29:BF:178:PRO:HD2	2.19	0.63
29:BF:4:VAL:C	29:BF:20:LEU:HD12	2.14	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:BH:107:VAL:HG13	31:BH:152:ARG:NE	2.12	0.63
33:BL:12:LEU:CB	33:BL:13:PRO:HD2	2.29	0.63
24:BA:1131:G:O4'	34:BM:82:LEU:HD11	1.99	0.63
35:BN:108:GLU:HB3	35:BN:111:PHE:CE2	2.33	0.63
36:BO:74:GLU:CB	36:BO:107:LYS:HZ2	2.11	0.63
36:BO:111:ARG:HH22	36:BO:113:LYS:HB2	1.63	0.63
24:BA:811:U:C4	36:BO:23:PRO:HD3	2.33	0.63
37:BP:67:ARG:NH2	37:BP:103:MET:HB3	2.10	0.63
37:BP:122:GLY:O	37:BP:123:HIS:C	2.37	0.63
37:BP:44:ALA:HB2	37:BP:93:TYR:O	1.98	0.63
38:BQ:40:LYS:O	38:BQ:44:LEU:HB2	1.99	0.63
39:BR:78:LEU:HG	39:BR:111:GLU:OE2	1.97	0.63
40:BS:65:LYS:CD	40:BS:75:ILE:HD13	2.28	0.63
41:BT:111:GLU:CA	41:BT:114:LYS:HE3	2.28	0.63
41:BT:92:ARG:HA	41:BT:95:LEU:CG	2.28	0.63
42:BU:35:LEU:HG	42:BU:36:PRO:CD	2.29	0.63
44:BW:50:LYS:HG3	44:BW:85:PRO:HD3	1.81	0.63
45:BX:39:VAL:O	45:BX:40:GLU:HB2	1.98	0.63
45:BX:76:CYS:CB	45:BX:100:ALA:HB3	2.29	0.63
24:BA:2132:U:C3'	24:BA:2133:G:H5'	2.27	0.63
26:BC:10:LEU:HD12	26:BC:13:LYS:HD2	1.79	0.63
26:BC:29:VAL:HG21	26:BC:41:VAL:HG11	1.80	0.63
26:BC:64:LEU:HD13	26:BC:188:ASN:ND2	2.13	0.63
26:BC:90:GLY:HA3	26:BC:157:LYS:CB	2.29	0.63
22:AW:8:ARG:HH11	22:AW:8:ARG:HB3	1.63	0.63
1:AA:1003:G:O5'	1:AA:1003:G:H8	1.81	0.63
1:AA:1039:C:N4	1:AA:1040:U:O4	2.31	0.63
1:AA:1161:C:C2	1:AA:1162:C:C5	2.87	0.63
1:AA:1191:A:OP1	5:AF:4:LYS:CG	2.47	0.63
1:AA:1260:C:H4'	1:AA:1284:C:C5'	2.28	0.63
1:AA:1423:G:H2'	1:AA:1424:C:H6	1.62	0.63
1:AA:588:G:H1'	1:AA:753:A:N1	2.12	0.63
1:AA:597:G:H2'	1:AA:598:U:H5'	1.79	0.63
1:AA:601:C:H2'	1:AA:602:A:C8	2.31	0.63
1:AA:698:G:H2'	1:AA:699:C:C6	2.32	0.63
1:AA:706:A:C2	1:AA:707:C:C6	2.86	0.63
1:AA:722:A:O3'	1:AA:723:U:N3	2.31	0.63
1:AA:811:C:H3'	1:AA:811:C:H6	1.63	0.63
1:AA:570:G:C5'	1:AA:820:U:H1'	2.19	0.63
1:AA:827:U:H4'	10:AK:19:VAL:CG2	2.26	0.63
1:AA:983:A:C3'	1:AA:983:A:N3	2.61	0.63
4:AE:185:ILE:CB	4:AE:199:TYR:HB2	2.29	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:39:ILE:O	4:AE:41:ILE:HD12	1.98	0.63
6:AG:120:LEU:HA	6:AG:125:HIS:NE2	2.14	0.63
9:AJ:135:VAL:HG12	9:AJ:139:GLU:OE2	1.98	0.63
1:AA:826:C:H5'	10:AK:12:ARG:HH21	1.63	0.63
10:AK:68:ARG:NH2	10:AK:74:PRO:HB3	2.13	0.63
11:AL:19:LEU:CD2	11:AL:20:ARG:N	2.62	0.63
14:AO:28:LYS:HZ1	14:AO:33:ARG:NH2	1.89	0.63
15:AP:19:LEU:O	15:AP:25:ILE:HD12	1.98	0.63
21:AV:20:LEU:HG	21:AV:21:GLU:H	1.63	0.63
21:AV:38:SER:HB3	21:AV:71:LEU:HD12	1.80	0.63
22:AW:59:ALA:O	22:AW:60:GLU:C	2.36	0.63
50:B3:6:HIS:CE1	50:B3:55:ARG:HD3	2.34	0.63
55:B8:4:ARG:O	55:B8:5:ALA:CB	2.46	0.63
24:BA:84:A:H1'	24:BA:103:A:H61	1.64	0.63
24:BA:1062:G:O6	24:BA:1077:A:C5	2.52	0.63
24:BA:1454:U:C2'	24:BA:1454:U:O2	2.47	0.63
24:BA:1535:U:C2'	24:BA:1536:A:O4'	2.36	0.63
24:BA:1656:C:H2'	24:BA:1657:C:H5	1.62	0.63
24:BA:189:G:H2'	24:BA:205:G:N2	2.11	0.63
24:BA:2225:A:H5'	24:BA:2226:C:C6	2.33	0.63
24:BA:2261:C:O2'	24:BA:2262:U:H5'	1.99	0.63
24:BA:2329:G:O5'	24:BA:2329:G:H8	1.82	0.63
24:BA:2360:A:N7	24:BA:2361:A:C8	2.67	0.63
24:BA:2720:U:C2'	24:BA:2721:A:H8	2.10	0.63
24:BA:2523:G:H1'	24:BA:2765:A:N7	2.14	0.63
24:BA:476:G:C4	24:BA:478:A:OP2	2.51	0.63
24:BA:627:A:H5''	36:BO:75:ILE:CB	2.28	0.63
24:BA:685:A:C5'	24:BA:686:G:H21	2.07	0.63
24:BA:728:G:C5	24:BA:762:U:H2'	2.33	0.63
24:BA:972:G:C5	24:BA:973:A:N7	2.67	0.63
27:BD:140:THR:C	27:BD:165:ILE:HD13	2.18	0.63
27:BD:56:GLY:N	27:BD:217:ARG:HD2	2.08	0.63
27:BD:232:PRO:HG2	27:BD:246:PRO:O	1.98	0.63
27:BD:24:ILE:HG22	27:BD:25:THR:N	2.12	0.63
30:BG:55:LYS:NZ	30:BG:152:LEU:HD11	2.14	0.63
30:BG:68:PRO:CB	30:BG:72:ARG:HH12	2.12	0.63
30:BG:6:ALA:HA	30:BG:9:ARG:HH21	1.63	0.63
31:BH:28:GLY:N	31:BH:79:VAL:HB	2.14	0.63
31:BH:51:ARG:HD3	31:BH:52:VAL:N	2.13	0.63
33:BL:39:LYS:HG2	33:BL:42:ASN:ND2	2.12	0.63
24:BA:1006:C:H4'	34:BM:32:THR:OG1	1.99	0.63
34:BM:87:LEU:O	34:BM:90:MET:CB	2.44	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BN:105:GLU:C	35:BN:111:PHE:CZ	2.71	0.63
36:BO:15:ARG:O	36:BO:17:LYS:NZ	2.32	0.63
37:BP:137:TYR:O	37:BP:138:ASP:CB	2.46	0.63
37:BP:6:ARG:CG	37:BP:7:MET:N	2.62	0.63
40:BS:109:GLU:HB2	40:BS:114:LEU:HD21	1.79	0.63
41:BT:88:ILE:CA	42:BU:52:VAL:HG22	2.27	0.63
41:BT:94:ASN:HA	41:BT:97:ASP:CG	2.17	0.63
42:BU:76:LYS:HE3	42:BU:86:GLY:N	2.13	0.63
45:BX:44:ILE:O	45:BX:46:LYS:N	2.32	0.63
45:BX:81:LYS:HG2	45:BX:96:ILE:CG2	2.28	0.63
24:BA:2142:C:C4	24:BA:2143:C:N4	2.67	0.63
33:BL:95:LYS:NZ	46:BY:112:ARG:HD2	2.13	0.63
1:AA:1128:C:O2	1:AA:1146:A:N6	2.31	0.63
1:AA:1261:A:H3'	1:AA:1262:C:C5	2.33	0.63
1:AA:1255:G:N2	1:AA:1276:G:N2	2.45	0.63
1:AA:1399:C:C4	1:AA:1502:A:N7	2.66	0.63
1:AA:224:C:C2	1:AA:225:C:C5	2.87	0.63
1:AA:375:U:O2'	1:AA:376:G:H5'	1.99	0.63
1:AA:519:C:C5'	14:AO:51:ALA:HB2	2.29	0.63
1:AA:676:A:H2'	1:AA:677:U:C6	2.34	0.63
1:AA:947:G:N2	1:AA:948:C:C2	2.67	0.63
3:AD:75:C:C3'	3:AD:76:A:H4'	2.21	0.63
5:AF:182:ILE:CG2	5:AF:202:ILE:O	2.47	0.63
6:AG:128:VAL:CG2	6:AG:133:VAL:HB	2.29	0.63
6:AG:15:GLU:CB	6:AG:19:LEU:HD11	2.28	0.63
6:AG:61:LYS:O	6:AG:64:LEU:HB3	1.98	0.63
7:AH:51:VAL:HB	7:AH:52:PRO:CD	2.21	0.63
8:AI:53:ALA:CB	8:AI:86:ARG:HD2	2.28	0.63
8:AI:1:MET:SD	8:AI:68:PRO:HG3	2.39	0.63
9:AJ:129:GLU:CB	9:AJ:131:LYS:HE2	2.29	0.63
9:AJ:153:HIS:HE1	13:AN:58:PRO:CD	2.11	0.63
10:AK:137:VAL:HG12	10:AK:138:TRP:N	2.14	0.63
10:AK:21:LYS:C	10:AK:63:LEU:HD13	2.18	0.63
10:AK:6:ILE:HG13	10:AK:85:ARG:NH2	2.14	0.63
12:AM:5:ARG:HD3	12:AM:6:ILE:N	2.14	0.63
12:AM:85:LEU:HD12	12:AM:85:LEU:N	2.13	0.63
13:AN:101:SER:O	13:AN:103:LEU:N	2.32	0.63
14:AO:97:ARG:HB3	14:AO:98:TYR:CE1	2.33	0.63
15:AP:13:LYS:HA	15:AP:44:ARG:NE	2.14	0.63
15:AP:23:TYR:CE2	15:AP:70:LEU:HD13	2.33	0.63
17:AR:33:THR:HG23	17:AR:87:ILE:HD12	1.80	0.63
17:AR:42:HIS:C	17:AR:42:HIS:ND1	2.52	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AS:43:LYS:HG3	18:AS:48:TRP:CE3	2.33	0.63
18:AS:43:LYS:HG3	18:AS:48:TRP:CZ3	2.34	0.63
19:AT:58:GLU:CD	19:AT:74:LEU:HB3	2.19	0.63
49:B2:24:LYS:HA	49:B2:27:GLY:O	1.99	0.63
51:B4:46:CYS:CB	51:B4:47:PRO:HD2	2.26	0.63
52:B5:41:PRO:HD2	52:B5:46:HIS:O	1.98	0.63
53:B6:43:THR:N	53:B6:44:PRO:CD	2.61	0.63
24:BA:108:U:H2'	24:BA:109:G:C8	2.33	0.63
24:BA:1241:A:N6	24:BA:1244:G:O6	2.31	0.63
24:BA:1315:C:O2	24:BA:1392:A:H2	1.81	0.63
24:BA:1527:G:C3'	24:BA:1527:G:C8	2.77	0.63
24:BA:1604:C:H2'	24:BA:1604:C:O2	1.99	0.63
24:BA:49:A:C6	24:BA:177:G:C2	2.86	0.63
24:BA:1890:A:H2'	24:BA:1891:G:O4'	1.98	0.63
24:BA:1914:C:OP1	24:BA:1916:A:C6	2.52	0.63
24:BA:192:C:C2'	24:BA:192:C:O2	2.46	0.63
24:BA:2227:A:C6	24:BA:2228:G:C5	2.87	0.63
24:BA:242:G:C2'	24:BA:254:G:C6	2.81	0.63
3:AB:53:G:O4'	24:BA:2470:G:H5''	1.99	0.63
24:BA:2690:C:H2'	24:BA:2691:C:OP2	1.98	0.63
24:BA:2720:U:O4	24:BA:2872:G:C6	2.52	0.63
24:BA:355:G:C6	24:BA:356:G:C6	2.87	0.63
24:BA:641:C:H2'	24:BA:642:G:H5'	1.79	0.63
24:BA:801:G:O2'	24:BA:802:A:OP1	2.13	0.63
25:BB:102:G:C2	25:BB:103:U:O4	2.52	0.63
27:BD:246:PRO:HG3	27:BD:252:TRP:HA	1.79	0.63
24:BA:2620:C:H4'	28:BE:156:MET:HB2	1.80	0.63
28:BE:33:VAL:HG21	28:BE:77:ILE:HD12	1.79	0.63
29:BF:121:GLY:HA3	29:BF:191:ARG:NE	2.11	0.63
29:BF:152:GLU:HA	29:BF:152:GLU:OE2	1.97	0.63
29:BF:30:PRO:HA	29:BF:33:LEU:CD2	2.27	0.63
29:BF:6:VAL:HA	29:BF:20:LEU:HD22	1.78	0.63
32:BK:7:GLU:N	32:BK:8:PRO:CD	2.60	0.63
33:BL:106:GLU:HA	33:BL:109:LYS:HE3	1.79	0.63
34:BM:29:LYS:O	34:BM:30:ILE:C	2.36	0.63
36:BO:132:LYS:HA	36:BO:135:LEU:HD13	1.79	0.63
37:BP:37:LEU:HD11	37:BP:130:LYS:CB	2.27	0.63
37:BP:7:MET:O	37:BP:70:PRO:HD2	1.98	0.63
38:BQ:55:ALA:CA	38:BQ:79:LEU:HD21	2.28	0.63
39:BR:40:ILE:HG22	39:BR:41:ASP:N	2.12	0.63
40:BS:4:GLY:O	40:BS:8:LYS:CG	2.46	0.63
24:BA:515:A:C5'	41:BT:32:PHE:HZ	2.11	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:BV:19:LEU:HB3	51:B4:25:LEU:CD1	2.13	0.63
43:BV:28:SER:H	43:BV:31:GLU:CD	2.01	0.63
43:BV:43:GLY:O	43:BV:47:VAL:HG23	1.99	0.63
45:BX:24:VAL:O	45:BX:24:VAL:HG23	1.97	0.63
46:BY:44:PHE:HD2	46:BY:48:PHE:CE1	2.17	0.63
26:BC:82:LYS:HE3	26:BC:147:PHE:CD1	2.23	0.63
24:BA:363(A):A:H2'	24:BA:363(B):G:O5'	1.98	0.63
26:BC:194:ARG:HH11	26:BC:194:ARG:HG3	1.63	0.63
1:AA:1192:C:N4	1:AA:1193:G:C5	2.67	0.63
1:AA:1202:G:H21	1:AA:1203:C:C1'	2.11	0.63
1:AA:1254:C:OP1	12:AM:45:ARG:CZ	2.47	0.63
1:AA:1321:C:C6	1:AA:1321:C:O5'	2.51	0.63
1:AA:1441:G:H1'	1:AA:1461:G:N2	2.14	0.63
1:AA:775:G:H2'	1:AA:776:G:C8	2.34	0.63
1:AA:791:G:N2	1:AA:1497:G:O3'	2.32	0.63
1:AA:815:A:N1	1:AA:1529:G:C2	2.67	0.63
4:AE:56:ARG:CZ	4:AE:56:ARG:HB3	2.29	0.63
4:AE:82:ARG:HD2	4:AE:92:TYR:HH	1.63	0.63
5:AF:87:LEU:HB2	5:AF:101:LEU:HD11	1.81	0.63
5:AF:82:GLU:O	5:AF:85:ARG:HB3	1.97	0.63
7:AH:96:PRO:C	7:AH:98:THR:N	2.49	0.63
8:AI:68:PRO:HB2	8:AI:71:ARG:HG2	1.80	0.63
10:AK:38:ILE:O	10:AK:41:ARG:HB2	1.99	0.63
12:AM:39:PRO:HA	12:AM:70:ARG:HH11	1.63	0.63
12:AM:79:ARG:CZ	12:AM:82:ILE:HB	2.28	0.63
13:AN:106:LYS:CG	13:AN:107:SER:H	2.09	0.63
13:AN:21:ILE:HG22	13:AN:30:VAL:CG2	2.27	0.63
13:AN:69:ALA:HB1	13:AN:103:LEU:CD1	2.28	0.63
14:AO:110:VAL:CG2	14:AO:113:ARG:HG3	2.29	0.63
14:AO:27:LEU:HD23	14:AO:33:ARG:CD	2.28	0.63
14:AO:38:THR:HG23	14:AO:39:VAL:H	1.63	0.63
17:AR:63:ARG:HH12	17:AR:87:ILE:CD1	2.11	0.63
18:AS:75:ARG:HA	18:AS:80:PHE:HB2	1.79	0.63
19:AT:63:ARG:HG2	19:AT:64:PRO:N	2.12	0.63
49:B2:10:LYS:NZ	49:B2:12:PRO:HG3	2.09	0.63
51:B4:34:PRO:HD3	51:B4:40:LYS:CE	2.28	0.63
24:BA:2392:A:P	54:B7:33:ASN:HD21	2.22	0.63
24:BA:1135:C:O2'	24:BA:1136:G:H5'	1.99	0.63
24:BA:1161:C:H1'	42:BU:22:VAL:CG1	2.28	0.63
24:BA:1434:A:H61	24:BA:1558:A:H61	1.45	0.63
24:BA:144:C:C2'	24:BA:145:G:H5'	2.29	0.63
24:BA:1498:C:O2	24:BA:1499:C:C5	2.52	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1697:G:C4'	24:BA:1698:A:H5'	2.28	0.63
24:BA:1735:C:C2	24:BA:1741:C:H5	2.17	0.63
24:BA:1801:G:C4	27:BD:263:ARG:NH2	2.66	0.63
24:BA:1953:A:N6	24:BA:2549:G:O2'	2.32	0.63
24:BA:1966:A:O2'	24:BA:1967:C:P	2.56	0.63
24:BA:2077:A:C4	24:BA:2435:A:C8	2.87	0.63
24:BA:2378:A:H5''	24:BA:2379:G:OP2	1.99	0.63
24:BA:2392:A:C2'	24:BA:2393:A:O5'	2.47	0.63
24:BA:2755:C:H4'	24:BA:2756:U:C6	2.33	0.63
24:BA:2849:U:C6	24:BA:2849:U:C3'	2.82	0.63
24:BA:304:G:H2'	24:BA:305:U:C6	2.34	0.63
24:BA:351:G:O2'	24:BA:352:G:P	2.57	0.63
24:BA:503:A:C4	24:BA:505:A:N7	2.66	0.63
24:BA:60:G:C8	24:BA:63:U:O4	2.51	0.63
24:BA:675:A:H2'	24:BA:676:A:N3	2.14	0.63
24:BA:693:C:O2'	24:BA:694:U:H5'	1.99	0.63
24:BA:815:C:O2'	24:BA:816:C:H5''	1.99	0.63
24:BA:974:G:C3'	24:BA:974(A):C:H5''	2.16	0.63
25:BB:31:C:H1'	25:BB:53:A:H61	1.63	0.63
27:BD:127:VAL:CG1	27:BD:194:GLY:HA3	2.14	0.63
27:BD:200:ASP:O	27:BD:203:ASN:N	2.29	0.63
24:BA:1901:A:O2'	27:BD:244:ARG:CZ	2.47	0.63
27:BD:37:LEU:HD12	27:BD:62:TYR:O	1.98	0.63
28:BE:104:VAL:CG1	28:BE:105:THR:N	2.61	0.63
28:BE:171:GLU:N	28:BE:185:LYS:HZ3	1.97	0.63
24:BA:2784:C:H4'	28:BE:40:GLU:OE2	1.98	0.63
29:BF:64:ILE:HG23	29:BF:78:ILE:HB	1.80	0.63
29:BF:65:TRP:HB3	29:BF:75:HIS:O	1.99	0.63
31:BH:126:PRO:CG	31:BH:132:ARG:NH2	2.61	0.63
31:BH:37:VAL:CG2	31:BH:37:VAL:O	2.47	0.63
33:BL:104:VAL:HG12	33:BL:124:ALA:HA	1.81	0.63
33:BL:55:VAL:CG2	33:BL:69:THR:HG22	2.29	0.63
24:BA:558:G:H5'	34:BM:112:LEU:HG	1.80	0.63
34:BM:14:VAL:HG22	34:BM:138:LEU:CD1	2.29	0.63
34:BM:31:ALA:O	34:BM:33:LEU:N	2.32	0.63
34:BM:7:LYS:HD3	34:BM:39:ARG:NH1	2.13	0.63
34:BM:60:ILE:HG22	34:BM:61:ARG:N	2.13	0.63
35:BN:70:LYS:CE	35:BN:103:ALA:HB3	2.29	0.63
35:BN:21:CYS:HA	35:BN:41:ALA:CB	2.28	0.63
35:BN:62:VAL:O	35:BN:63:VAL:CG2	2.39	0.63
36:BO:113:LYS:CA	36:BO:129:ALA:HB1	2.29	0.63
37:BP:27:VAL:HG13	37:BP:104:PHE:CE2	2.34	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:75:THR:HA	37:BP:91:GLU:CD	2.18	0.63
38:BQ:28:LEU:HD11	38:BQ:116:LEU:HD23	1.80	0.63
39:BR:10:ARG:NH1	39:BR:89:ARG:HH12	1.97	0.63
39:BR:14:VAL:O	39:BR:18:ILE:HD13	1.99	0.63
39:BR:42:ASP:O	39:BR:44:LYS:N	2.27	0.63
39:BR:49:VAL:HG13	39:BR:76:LYS:NZ	2.13	0.63
39:BR:57:LYS:NZ	39:BR:65:VAL:HA	2.13	0.63
39:BR:9:ARG:HA	39:BR:12:PHE:CD2	2.34	0.63
42:BU:40:LEU:C	42:BU:51:VAL:HG13	2.18	0.63
24:BA:747:U:O2'	43:BV:88:ARG:HG3	1.99	0.63
45:BX:97:ARG:HB3	45:BX:101:LYS:HE2	1.80	0.63
45:BX:65:ALA:CB	45:BX:66:PRO:HD3	2.28	0.63
46:BY:24:LEU:HD13	46:BY:83:PRO:HG2	1.78	0.63
32:BK:131:LYS:HA	32:BK:137:PRO:HA	1.81	0.63
24:BA:2132:U:H2'	24:BA:2132:U:O2	1.99	0.63
24:BA:2141:G:C6	24:BA:2151:G:C6	2.86	0.63
26:BC:100:ILE:O	26:BC:104:LEU:HD23	1.99	0.63
3:AD:56:C:H5''	26:BC:133:PRO:HB2	1.80	0.63
24:BA:274:G:C2'	24:BA:275:G:H5'	2.27	0.63
12:AM:3:LYS:HE3	12:AM:77:PRO:CD	2.29	0.63
2:A1:28:G:H2'	2:A1:29:G:H8	1.63	0.63
2:A1:33:U:H2'	2:A1:34:U:C4	2.33	0.63
1:AA:1077:G:O6	7:AH:47:LYS:NZ	2.32	0.63
1:AA:237:C:OP1	19:AT:40:LYS:NZ	2.32	0.63
1:AA:439:A:H3'	1:AA:440:A:H8	1.64	0.63
1:AA:50:A:C6	1:AA:361:G:C4'	2.82	0.63
1:AA:518:C:H3'	1:AA:530:G:N2	2.14	0.63
1:AA:52:G:O2'	1:AA:53:A:H5'	1.99	0.63
1:AA:553:A:H2'	1:AA:554:C:O4'	1.99	0.63
1:AA:830:G:C6	1:AA:831:U:C4	2.87	0.63
1:AA:21:G:N2	1:AA:915:A:N6	2.46	0.63
4:AE:118:LEU:HD22	4:AE:142:LEU:CD1	2.29	0.63
4:AE:162:ILE:HD13	4:AE:162:ILE:N	2.14	0.63
4:AE:52:GLU:CG	4:AE:53:ARG:N	2.62	0.63
4:AE:67:THR:CB	4:AE:155:LEU:HD21	2.28	0.63
4:AE:71:VAL:HG22	4:AE:93:VAL:CB	2.28	0.63
4:AE:70:PHE:O	4:AE:92:TYR:HB2	1.98	0.63
9:AJ:70:LYS:HA	9:AJ:100:ALA:HB2	1.81	0.63
9:AJ:155:ARG:HH11	9:AJ:156:TRP:H	1.44	0.63
9:AJ:17:VAL:HB	9:AJ:44:TYR:OH	1.99	0.63
10:AK:29:SER:C	10:AK:32:LYS:NZ	2.52	0.63
1:AA:972:C:O2	12:AM:55:LYS:HE3	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AN:62:GLN:O	13:AN:66:LEU:HG	1.99	0.63
14:AO:56:ALA:HB2	14:AO:70:ILE:HG13	1.80	0.63
14:AO:9:GLN:HA	14:AO:12:ARG:NH1	2.12	0.63
15:AP:25:ILE:HG12	15:AP:66:LEU:HD13	1.80	0.63
1:AA:1202:G:H1'	16:AQ:29:ARG:HE	1.63	0.63
19:AT:88:TYR:HA	19:AT:91:ARG:CZ	2.28	0.63
22:AW:23:ARG:HD3	22:AW:24:LEU:H	1.64	0.63
22:AW:63:ILE:HD11	22:AW:80:ARG:HB3	1.78	0.63
1:AA:1242:C:C5'	23:AX:10:ARG:HH12	2.02	0.63
48:B1:50:ARG:O	48:B1:54:ARG:HG3	1.98	0.63
49:B2:13:ILE:CG2	49:B2:14:GLY:H	1.99	0.63
54:B7:5:LYS:HD2	54:B7:63:PRO:HG2	1.79	0.63
24:BA:1407:C:H2'	24:BA:1408:C:C6	2.33	0.63
24:BA:1491:G:H2'	24:BA:1492:G:O3'	1.99	0.63
24:BA:152:G:O2'	24:BA:153:C:H5'	1.99	0.63
24:BA:141:A:C2	24:BA:1597:A:H5'	2.34	0.63
24:BA:1626:G:N2	24:BA:1634:A:O2'	2.32	0.63
24:BA:1670:C:OP2	24:BA:1671:U:H5	1.82	0.63
24:BA:1772:G:N2	24:BA:1774:C:H5'	2.14	0.63
24:BA:1817:G:OP1	27:BD:88:ARG:NH1	2.30	0.63
24:BA:1824:G:O2'	27:BD:246:PRO:CB	2.43	0.63
24:BA:1902:C:C2'	24:BA:1903:G:H5'	2.27	0.63
24:BA:574:C:H41	24:BA:2054:A:H5''	1.62	0.63
24:BA:226:G:N2	24:BA:227:A:N3	2.47	0.63
24:BA:2346:A:N3	24:BA:2383:G:C4	2.66	0.63
24:BA:245:G:H1	24:BA:253:C:H42	1.44	0.63
24:BA:2466:C:OP1	55:B8:5:ALA:HB3	1.98	0.63
24:BA:2547:U:C2'	24:BA:2548:G:H5''	2.29	0.63
24:BA:2574:G:H2'	24:BA:2575:C:O4'	1.99	0.63
24:BA:270(L):U:H2'	24:BA:270(L):U:O2	1.98	0.63
24:BA:2754:U:C2'	24:BA:2756:U:OP1	2.46	0.63
24:BA:2798:C:C5	24:BA:2801:A:N6	2.66	0.63
24:BA:290:G:H3'	24:BA:290:G:H8	1.64	0.63
24:BA:373:U:O2'	24:BA:375:C:N4	2.26	0.63
24:BA:61:G:H5'	48:B1:45:ILE:HG12	1.80	0.63
24:BA:639:U:O4	24:BA:648:G:O6	2.17	0.63
24:BA:872:A:O2'	37:BP:66:ILE:CG1	2.47	0.63
24:BA:919:G:N2	24:BA:2268:A:H5''	2.14	0.63
24:BA:975:G:C2	24:BA:976:C:H6	2.16	0.63
25:BB:62:C:C2	25:BB:63:G:N7	2.67	0.63
27:BD:157:ARG:O	27:BD:158:ALA:O	2.17	0.63
24:BA:2571:C:H1'	28:BE:146:THR:CG2	2.27	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:BE:5:LEU:HG	28:BE:25:VAL:HG13	1.80	0.63
29:BF:201:VAL:O	29:BF:205:ARG:HG3	1.98	0.63
29:BF:77:ASP:OD1	29:BF:80:ALA:HB2	1.98	0.63
31:BH:9:ILE:CD1	31:BH:73:ALA:HB2	2.29	0.63
32:BK:2:LYS:HZ2	32:BK:44:LEU:HD21	1.63	0.63
33:BL:7:VAL:HB	33:BL:56:GLU:OE1	1.98	0.63
34:BM:128:HIS:N	34:BM:129:PRO:CD	2.60	0.63
34:BM:16:ILE:HD12	34:BM:16:ILE:H	1.63	0.63
34:BM:25:ARG:HA	34:BM:28:THR:HG23	1.80	0.63
35:BN:11:ALA:HB2	35:BN:17:ARG:NE	2.13	0.63
36:BO:51:PHE:C	36:BO:55:ARG:HG3	2.18	0.63
36:BO:79:ARG:HA	36:BO:79:ARG:CZ	2.29	0.63
37:BP:56:ARG:CZ	37:BP:57:HIS:CB	2.77	0.63
37:BP:75:THR:CG2	37:BP:89:ASN:O	2.47	0.63
38:BQ:75:LEU:HA	38:BQ:78:LYS:CB	2.28	0.63
38:BQ:73:VAL:HA	38:BQ:76:VAL:HB	1.81	0.63
40:BS:28:VAL:HG12	40:BS:29:ARG:O	1.98	0.63
40:BS:35:LYS:O	40:BS:36:GLU:O	2.17	0.63
41:BT:19:LYS:O	41:BT:20:LEU:C	2.38	0.63
41:BT:93:LYS:HB2	42:BU:10:LYS:CD	2.29	0.63
43:BV:12:ILE:O	43:BV:13:SER:HB2	1.98	0.63
46:BY:102:LEU:HG	46:BY:125:LEU:HG	1.80	0.63
47:BZ:46:LYS:CG	47:BZ:78:TYR:CE2	2.78	0.63
3:AD:48:C:N4	3:AD:59:U:O2	2.32	0.63
3:AD:58:A:H2'	3:AD:61:C:N4	2.13	0.63
24:BA:2125:G:OP1	26:BC:40:THR:HG21	1.99	0.63
26:BC:74:VAL:HA	26:BC:112:ALA:O	1.98	0.63
26:BC:83:ILE:HG23	26:BC:87:GLU:OE2	1.98	0.63
24:BA:363(D):G:N1	24:BA:363(E):U:C2	2.67	0.63
1:AA:1028:C:H2'	1:AA:1028(A):C:H6	1.58	0.63
1:AA:1202:G:N2	1:AA:1203:C:C1'	2.61	0.63
1:AA:1419:G:O2'	1:AA:1420:C:O4'	2.17	0.63
1:AA:193:C:H2'	1:AA:194:C:C5	2.34	0.63
1:AA:308:C:C2	1:AA:309:G:C8	2.86	0.63
1:AA:36:C:N3	1:AA:37:U:O2	2.32	0.63
1:AA:43:C:H2'	1:AA:44:G:C8	2.33	0.63
1:AA:579:G:C2'	1:AA:580:U:H5'	2.29	0.63
1:AA:720:C:H2'	1:AA:721:G:C8	2.34	0.63
1:AA:781:A:N6	1:AA:802:A:N3	2.47	0.63
1:AA:922:G:O2'	1:AA:923:A:H5'	1.99	0.63
1:AA:947:G:N3	1:AA:948:C:C6	2.67	0.63
1:AA:992:U:H4'	1:AA:993:G:O5'	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:163:PHE:HE1	4:AE:201:ILE:HD13	1.64	0.63
5:AF:47:LEU:HD11	5:AF:83:ARG:NH2	2.14	0.63
6:AG:150:GLU:O	6:AG:152:SER:N	2.32	0.63
6:AG:57:ARG:NH2	7:AH:107:ARG:HD3	2.14	0.63
7:AH:31:LEU:CD1	7:AH:129:ILE:HG23	2.18	0.63
7:AH:56:GLN:N	7:AH:56:GLN:NE2	2.47	0.63
8:AI:7:ASN:C	8:AI:8:ILE:HG12	2.18	0.63
10:AK:45:ILE:HG13	10:AK:47:GLY:H	1.62	0.63
10:AK:48:TYR:C	10:AK:48:TYR:CD1	2.73	0.63
12:AM:12:ASP:O	12:AM:15:THR:HG22	1.98	0.63
14:AO:91:LYS:O	14:AO:92:ASP:CB	2.47	0.63
1:AA:1216:G:H5''	16:AQ:5:ALA:CB	2.29	0.63
18:AS:12:LYS:HZ1	18:AS:13:HIS:CE1	2.16	0.63
21:AV:36:ARG:HG3	21:AV:72:GLY:CA	2.27	0.63
48:B1:46:ARG:HE	48:B1:50:ARG:NH2	1.96	0.63
51:B4:29:THR:C	51:B4:30:LEU:HG	2.19	0.63
52:B5:16:CYS:SG	52:B5:19:ARG:NE	2.72	0.63
52:B5:28:ARG:O	52:B5:29:ASN:O	2.17	0.63
24:BA:1063:G:N2	24:BA:1076:C:C6	2.62	0.63
24:BA:1084:A:O2'	24:BA:1105:U:H1'	1.99	0.63
24:BA:2325:G:H2'	24:BA:2326:C:O4'	1.99	0.63
24:BA:411:G:N2	24:BA:2408:U:H3	1.92	0.63
24:BA:270(U):C:H2'	24:BA:270(V):G:C1'	2.29	0.63
24:BA:2741:A:H2'	24:BA:2742:C:O4'	1.98	0.63
24:BA:2758:A:N6	24:BA:2759:G:O6	2.30	0.63
24:BA:280:C:N4	24:BA:283:A:N6	2.44	0.63
24:BA:2789:C:HO2'	24:BA:2893:G:H22	1.45	0.63
24:BA:351:G:O2'	24:BA:352:G:OP2	2.16	0.63
24:BA:481:G:H1	24:BA:509:C:N4	1.95	0.63
24:BA:576:U:C2	24:BA:577:G:N7	2.67	0.63
24:BA:861:A:N3	25:BB:79:C:O2'	2.31	0.63
24:BA:861:A:N7	24:BA:917:A:H2	1.97	0.63
25:BB:83:G:N2	25:BB:84:C:N1	2.47	0.63
27:BD:80:ALA:CB	27:BD:94:LEU:O	2.47	0.63
30:BG:128:ARG:NH1	30:BG:130:ASN:HD21	1.97	0.63
31:BH:149:ARG:CG	31:BH:153:LYS:HD2	2.28	0.63
32:BK:5:LEU:CB	32:BK:8:PRO:HD2	2.22	0.63
34:BM:33:LEU:HD22	34:BM:33:LEU:C	2.19	0.63
35:BN:12:ASP:H	35:BN:14:THR:HG22	1.63	0.63
35:BN:4:PRO:CG	35:BN:5:GLN:N	2.51	0.63
37:BP:25:ASP:CB	37:BP:101:ARG:HD2	2.23	0.63
37:BP:126:PRO:C	37:BP:127:ILE:HG13	2.19	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:6:ARG:HD3	37:BP:6:ARG:C	2.19	0.63
37:BP:16:ARG:CG	37:BP:72:LYS:HD2	2.26	0.63
37:BP:75:THR:OG1	37:BP:91:GLU:OE2	2.13	0.63
38:BQ:10:LEU:HB2	38:BQ:17:ARG:NH1	2.14	0.63
38:BQ:54:LEU:HD12	38:BQ:54:LEU:H	1.64	0.63
39:BR:23:ARG:C	39:BR:24:LEU:HD12	2.20	0.63
40:BS:68:TYR:CZ	40:BS:70:VAL:HG22	2.34	0.63
40:BS:6:LEU:HA	40:BS:9:LEU:HD12	1.80	0.63
42:BU:28:GLU:O	42:BU:30:GLY:N	2.32	0.63
42:BU:40:LEU:CG	42:BU:55:ALA:N	2.52	0.63
43:BV:25:ARG:HG2	43:BV:71:VAL:HG21	1.81	0.63
24:BA:748:G:C5'	43:BV:88:ARG:NH1	2.59	0.63
46:BY:177:PRO:HG2	46:BY:178:GLU:N	2.12	0.63
3:AD:16:U:O2'	3:AD:17:C:H4'	1.99	0.63
24:BA:2130:U:H5''	24:BA:2131:G:OP1	1.98	0.63
3:AD:41:C:H5'	3:AD:41:C:C6	2.33	0.63
32:BK:136:VAL:HG23	32:BK:136:VAL:O	1.97	0.63
1:AA:1132:C:C4	1:AA:1133:G:N7	2.67	0.62
1:AA:1272:G:H2'	1:AA:1273:G:H8	1.65	0.62
1:AA:1276:G:O2'	1:AA:1282:C:H4'	1.98	0.62
1:AA:1339:A:O4'	3:AC:41:C:H5''	1.98	0.62
1:AA:235:C:H2'	1:AA:236:G:H8	1.64	0.62
1:AA:355:C:C1'	1:AA:388:G:H2'	2.24	0.62
1:AA:453:A:H62	1:AA:480:U:H3	1.45	0.62
1:AA:671:G:H2'	1:AA:672:U:O4'	1.99	0.62
1:AA:689:C:H5''	1:AA:690:G:OP2	1.99	0.62
1:AA:762:C:C2	1:AA:763:G:N7	2.67	0.62
1:AA:778:G:H2'	1:AA:779:C:C6	2.34	0.62
1:AA:795:C:H4'	1:AA:1506:U:O2	1.99	0.62
1:AA:817:C:O2'	1:AA:818:G:P	2.57	0.62
1:AA:962:C:H2'	1:AA:963:G:O4'	1.98	0.62
3:AC:18:G:C6	3:AC:57:G:N1	2.67	0.62
3:AC:53:G:O2'	3:AC:54:U:H5'	1.98	0.62
3:AC:75:C:C3'	3:AC:76:A:O3'	2.47	0.62
4:AE:169:LYS:HE2	4:AE:170:GLU:CA	2.28	0.62
5:AF:59:ARG:CZ	5:AF:59:ARG:HB2	2.26	0.62
5:AF:63:ASN:O	5:AF:99:VAL:HG12	1.99	0.62
6:AG:129:ASN:ND2	6:AG:144:ASP:CG	2.53	0.62
6:AG:94:LEU:O	6:AG:97:LEU:HB2	1.99	0.62
7:AH:105:VAL:HG22	7:AH:132:ALA:HB2	1.80	0.62
7:AH:81:GLU:HB3	7:AH:90:VAL:CG2	2.28	0.62
8:AI:60:PHE:CE2	20:AU:78:LEU:HD11	2.34	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AJ:99:LEU:HD21	9:AJ:102:ARG:HD2	1.81	0.62
10:AK:13:ILE:HG22	10:AK:14:ARG:H	1.58	0.62
11:AL:62:TYR:C	11:AL:63:ILE:HD12	2.18	0.62
12:AM:48:THR:HG23	12:AM:61:GLU:O	1.98	0.62
12:AM:79:ARG:NH2	12:AM:82:ILE:HD12	2.13	0.62
13:AN:19:ALA:N	13:AN:80:VAL:HG21	2.14	0.62
15:AP:14:ARG:CA	15:AP:44:ARG:HA	2.29	0.62
15:AP:55:ARG:HH21	15:AP:56:LEU:HD11	1.64	0.62
16:AQ:24:CYS:HB3	16:AQ:28:GLY:O	1.98	0.62
21:AV:22:LEU:HG	21:AV:25:LYS:NZ	2.11	0.62
22:AW:51:GLU:O	22:AW:55:ILE:HG13	1.98	0.62
23:AX:11:GLY:O	23:AX:15:ARG:HG2	1.99	0.62
49:B2:35:ARG:NH1	49:B2:47:VAL:HG22	2.13	0.62
24:BA:120:U:H1'	24:BA:149:A:N3	2.14	0.62
24:BA:1363:C:N4	50:B3:2:LYS:CE	2.58	0.62
24:BA:1612:C:O3'	53:B6:5:TRP:CD1	2.52	0.62
24:BA:742:G:C5'	24:BA:1675:C:O2'	2.47	0.62
24:BA:1675:C:O2	24:BA:1676:A:O4'	2.17	0.62
24:BA:1700:A:H3'	24:BA:1701:A:C8	2.29	0.62
24:BA:1912:A:N7	24:BA:1918:A:N6	2.46	0.62
24:BA:1933:G:N2	24:BA:1973:G:O2'	2.31	0.62
24:BA:201:C:H2'	24:BA:202:U:C5'	2.28	0.62
24:BA:2039:C:H2'	24:BA:2040:C:C6	2.34	0.62
24:BA:2373:G:C2	24:BA:2374:C:C4	2.87	0.62
24:BA:2458:G:H2'	24:BA:2460:U:C4	2.34	0.62
24:BA:252:G:N3	24:BA:253:C:C6	2.67	0.62
24:BA:1966:A:C1'	24:BA:2593:U:H5'	2.25	0.62
24:BA:35:G:O4'	24:BA:454:A:H1'	1.99	0.62
24:BA:515:A:H3'	24:BA:515:A:C8	2.33	0.62
24:BA:642:G:H8	24:BA:642:G:H3'	1.64	0.62
24:BA:602:G:H2'	24:BA:655:A:C2	2.34	0.62
24:BA:772:C:C2	24:BA:773:U:C5	2.87	0.62
24:BA:775:G:H21	24:BA:787:U:C2'	2.08	0.62
24:BA:6:A:O2'	24:BA:7:G:H5'	1.99	0.62
24:BA:820:A:C2	24:BA:821:A:O4'	2.52	0.62
24:BA:852:G:O4'	49:B2:42:ALA:HA	1.99	0.62
24:BA:883:G:C2	24:BA:894:C:C2	2.87	0.62
25:BB:62:C:C2	25:BB:63:G:C8	2.87	0.62
25:BB:90:C:H2'	25:BB:91:C:H6	1.64	0.62
27:BD:119:ALA:HB2	27:BD:130:ALA:N	2.09	0.62
27:BD:129:ASN:O	27:BD:193:VAL:CG2	2.47	0.62
27:BD:5:LYS:CD	27:BD:81:ALA:HB1	2.28	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:79:VAL:HB	27:BD:114:GLY:N	2.14	0.62
27:BD:85:ASP:O	27:BD:87:ASN:N	2.31	0.62
28:BE:131:ALA:HB1	28:BE:134:ILE:CG1	2.28	0.62
29:BF:122:LYS:HE3	29:BF:192:LEU:CD1	2.24	0.62
30:BG:157:ILE:HG12	30:BG:158:ALA:H	1.63	0.62
30:BG:53:LEU:O	30:BG:68:PRO:HB2	1.99	0.62
32:BK:31:LEU:HD22	32:BK:36:ALA:H	1.63	0.62
33:BL:12:LEU:HD22	33:BL:23:VAL:HG23	1.81	0.62
34:BM:34:LEU:HD23	34:BM:116:LEU:HD21	1.80	0.62
34:BM:15:LEU:HD11	34:BM:137:LYS:HB3	1.81	0.62
34:BM:4:TYR:HB2	41:BT:64:ARG:NH1	2.03	0.62
36:BO:121:LYS:N	36:BO:122:PRO:CD	2.62	0.62
37:BP:77:LYS:HG2	37:BP:87:LYS:HA	1.81	0.62
37:BP:9:TYR:HD1	37:BP:10:ARG:HD3	1.63	0.62
38:BQ:17:ARG:HH11	38:BQ:17:ARG:HB2	1.63	0.62
39:BR:52:SER:HB3	39:BR:73:LEU:HD11	1.81	0.62
24:BA:18:C:OP1	41:BT:26:GLY:CA	2.46	0.62
24:BA:445:C:O3'	41:BT:3:ARG:HG2	1.99	0.62
34:BM:42:TRP:HE1	41:BT:64:ARG:HG2	1.64	0.62
41:BT:99:ALA:HB2	41:BT:106:PHE:CE1	2.34	0.62
42:BU:68:LYS:NZ	42:BU:95:LEU:CD1	2.61	0.62
46:BY:175:VAL:CG2	46:BY:176:PRO:HD2	2.28	0.62
46:BY:1:MET:SD	46:BY:59:LEU:O	2.57	0.62
26:BC:64:LEU:HD12	26:BC:161:ILE:HG12	1.79	0.62
26:BC:30:LYS:HZ2	26:BC:182:PRO:HD3	1.63	0.62
26:BC:75:LEU:HB2	26:BC:110:PHE:CG	2.33	0.62
1:AA:1016:A:H8	1:AA:1016:A:O5'	1.82	0.62
15:AP:121:LYS:HE3	15:AP:121:LYS:CA	2.29	0.62
15:AP:121:LYS:HA	15:AP:121:LYS:HE3	1.80	0.62
49:B2:36:VAL:O	49:B2:36:VAL:HG23	1.99	0.62
1:AA:130:A:N6	19:AT:64:PRO:HG2	2.14	0.62
1:AA:1344:C:H5'	11:AL:120:ARG:O	1.98	0.62
1:AA:1505:G:H5''	1:AA:1506:U:O5'	1.99	0.62
1:AA:520:A:C8	1:AA:521:G:O4'	2.52	0.62
1:AA:750:G:N3	17:AR:23:GLY:O	2.32	0.62
1:AA:755:G:H2'	1:AA:756:C:C5	2.34	0.62
1:AA:765:G:O2'	1:AA:766:A:C5'	2.42	0.62
1:AA:818:G:O2'	1:AA:819:A:OP1	2.17	0.62
1:AA:828:A:O4'	1:AA:859:A:H2	1.82	0.62
1:AA:895:G:H2'	1:AA:896:C:C6	2.35	0.62
1:AA:900:A:C5	1:AA:901:A:N7	2.68	0.62
3:AC:2:C:H2'	3:AC:3:C:H6	1.62	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:70:PHE:CB	4:AE:163:PHE:O	2.47	0.62
4:AE:9:GLU:HG2	4:AE:10:LEU:N	2.15	0.62
5:AF:108:ASN:ND2	5:AF:111:LEU:HD13	2.09	0.62
5:AF:146:ALA:C	5:AF:147:LYS:HD2	2.19	0.62
5:AF:138:VAL:HG22	5:AF:151:VAL:HG21	1.81	0.62
7:AH:141:GLN:C	7:AH:142:LEU:HG	2.20	0.62
8:AI:22:GLU:O	8:AI:26:ILE:HG13	1.99	0.62
8:AI:2:ARG:O	8:AI:67:MET:SD	2.57	0.62
8:AI:36:ARG:HB3	8:AI:36:ARG:CZ	2.28	0.62
1:AA:1373:G:H5''	9:AJ:36:LYS:HB2	1.81	0.62
11:AL:109:VAL:HG12	11:AL:109:VAL:O	1.98	0.62
11:AL:110:GLU:O	11:AL:111:ARG:HB2	1.98	0.62
11:AL:66:ARG:HG2	11:AL:67:GLY:N	2.15	0.62
12:AM:7:LYS:HG3	12:AM:71:LEU:HD13	1.80	0.62
14:AO:30:ALA:HB1	14:AO:31:PRO:HD2	1.80	0.62
14:AO:65:GLU:O	14:AO:66:VAL:HG13	1.99	0.62
14:AO:85:ILE:HD11	14:AO:98:TYR:C	2.19	0.62
15:AP:81:LEU:O	15:AP:86:CYS:SG	2.57	0.62
16:AQ:29:ARG:HH11	16:AQ:29:ARG:CB	2.06	0.62
19:AT:75:ARG:CZ	19:AT:77:VAL:HG22	2.29	0.62
20:AU:87:ARG:O	20:AU:88:LYS:C	2.37	0.62
48:B1:58:VAL:O	48:B1:59:LEU:C	2.36	0.62
50:B3:68:ARG:NH1	50:B3:68:ARG:CB	2.62	0.62
51:B4:35:GLU:CB	51:B4:49:CYS:HB3	2.28	0.62
24:BA:1069:A:H5'	24:BA:1070:A:H3'	1.80	0.62
24:BA:1135:C:O2	24:BA:2038:G:H4'	2.00	0.62
24:BA:1245:G:OP1	36:BO:15:ARG:HD2	1.99	0.62
24:BA:116:C:H1'	24:BA:127:A:H1'	1.80	0.62
24:BA:1693:U:O2	24:BA:1693:U:H2'	1.99	0.62
24:BA:1743:G:O6	24:BA:1746:G:C6	2.52	0.62
24:BA:1894:C:O2'	24:BA:1895:C:H5'	1.99	0.62
24:BA:1977:A:C2	24:BA:1978:A:N9	2.67	0.62
24:BA:1997:G:N1	24:BA:1998:G:C6	2.67	0.62
24:BA:2063:C:H2'	24:BA:2064:C:C4'	2.28	0.62
24:BA:2219:G:H2'	24:BA:2224:G:O5'	2.00	0.62
24:BA:2484:G:C1'	37:BP:124:LYS:HZ3	2.12	0.62
24:BA:2637:U:OP2	24:BA:2637:U:C6	2.52	0.62
24:BA:2720:U:O4	24:BA:2873:A:N6	2.33	0.62
24:BA:292:C:C6	24:BA:293:U:C4	2.86	0.62
24:BA:464:U:O5'	24:BA:464:U:C6	2.50	0.62
24:BA:469:G:OP2	29:BF:59:TYR:CE2	2.51	0.62
24:BA:668:G:H2'	24:BA:670:A:N6	2.13	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:729:G:H5''	27:BD:211:ARG:HH12	1.63	0.62
24:BA:748:G:N7	24:BA:750:A:C5	2.67	0.62
24:BA:828:U:C6	24:BA:829:A:N7	2.68	0.62
24:BA:959:A:H2'	24:BA:960:A:H8	1.62	0.62
24:BA:987:G:O6	24:BA:988:A:C5	2.52	0.62
25:BB:30:C:C1'	25:BB:58:A:C2	2.82	0.62
27:BD:76:PRO:HA	27:BD:118:VAL:HG21	1.81	0.62
27:BD:55:GLY:H	27:BD:218:ARG:HD3	1.64	0.62
27:BD:226:MET:CE	27:BD:237:GLU:H	2.11	0.62
27:BD:5:LYS:HA	27:BD:28:GLU:HB2	1.80	0.62
27:BD:5:LYS:HD3	27:BD:29:PRO:CB	2.24	0.62
27:BD:65:ILE:HG22	27:BD:66:ASP:N	2.13	0.62
29:BF:12:LEU:O	29:BF:14:PRO:CD	2.46	0.62
29:BF:162:LEU:HD22	29:BF:165:ARG:HH21	1.63	0.62
29:BF:152:GLU:O	29:BF:172:TRP:HA	1.98	0.62
30:BG:139:LEU:HD13	30:BG:142:PRO:HB3	1.82	0.62
34:BM:104:LYS:O	34:BM:107:LEU:N	2.33	0.62
34:BM:87:LEU:O	34:BM:91:LEU:CG	2.47	0.62
24:BA:2393:A:H5''	36:BO:56:SER:N	2.14	0.62
36:BO:64:LYS:HD2	36:BO:64:LYS:C	2.19	0.62
37:BP:55:VAL:HG23	37:BP:64:ILE:HD11	1.81	0.62
37:BP:75:THR:HA	37:BP:91:GLU:CG	2.29	0.62
38:BQ:8:ARG:NH2	38:BQ:17:ARG:HD2	2.14	0.62
38:BQ:6:SER:OG	38:BQ:9:LYS:HE2	1.99	0.62
42:BU:3:ALA:HA	42:BU:44:LYS:HZ3	1.64	0.62
42:BU:69:LYS:HG2	42:BU:70:ILE:N	2.14	0.62
44:BW:27:THR:HB	44:BW:80:ILE:CD1	2.26	0.62
45:BX:13:VAL:HG13	45:BX:70:SER:CB	2.29	0.62
47:BZ:50:ASN:HB2	47:BZ:81:VAL:CG2	2.29	0.62
24:BA:2122:U:C4'	26:BC:166:ASP:HB2	2.27	0.62
46:BY:8:TYR:CD1	46:BY:8:TYR:N	2.64	0.62
2:A1:8:U:H1'	4:AE:15:VAL:HG12	1.81	0.62
1:AA:1187:G:H2'	1:AA:1188:A:H8	1.65	0.62
1:AA:1210:C:O3'	1:AA:1214:C:N4	2.32	0.62
1:AA:1394:A:HO2'	1:AA:1395:C:P	2.22	0.62
1:AA:1425:U:O2'	1:AA:1426:C:H5'	1.97	0.62
1:AA:527:G:C2	1:AA:528:C:C2	2.88	0.62
4:AE:158:LEU:HB2	4:AE:160:ASP:OD2	1.99	0.62
4:AE:200:ILE:O	4:AE:202:PRO:CD	2.47	0.62
4:AE:224:GLN:HA	4:AE:229:VAL:HG22	1.81	0.62
5:AF:178:LEU:O	5:AF:179:ARG:HB2	1.99	0.62
5:AF:17:ASP:HB3	5:AF:18:TRP:CE3	2.32	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:196:LEU:HD23	5:AF:196:LEU:N	2.14	0.62
5:AF:67:THR:HG22	5:AF:104:GLN:CG	2.24	0.62
1:AA:404:U:C4'	6:AG:122:ARG:NH1	2.62	0.62
6:AG:162:LEU:CD1	6:AG:181:MET:HG2	2.25	0.62
7:AH:86:ALA:O	7:AH:125:SER:CB	2.47	0.62
8:AI:72:VAL:HG23	8:AI:73:ASN:N	2.11	0.62
9:AJ:99:LEU:HD23	9:AJ:102:ARG:HB3	1.80	0.62
10:AK:11:THR:O	10:AK:13:ILE:N	2.33	0.62
12:AM:6:ILE:HG22	12:AM:98:ILE:HA	1.81	0.62
13:AN:126:ARG:C	13:AN:128:ALA:H	2.02	0.62
13:AN:73:MET:O	13:AN:75:TYR:N	2.32	0.62
13:AN:78:GLN:O	13:AN:103:LEU:O	2.16	0.62
13:AN:79:SER:HA	13:AN:104:GLN:HG3	1.82	0.62
15:AP:10:PRO:CG	15:AP:18:ALA:HB1	2.28	0.62
15:AP:3:ARG:NH1	30:BG:113:ARG:O	2.33	0.62
17:AR:5:LYS:HB2	17:AR:5:LYS:HZ2	1.62	0.62
19:AT:104:LYS:HD3	19:AT:105:ALA:HB3	1.82	0.62
19:AT:21:VAL:CG2	19:AT:43:LEU:HA	2.29	0.62
19:AT:76:LEU:HD23	19:AT:76:LEU:C	2.19	0.62
20:AU:21:LYS:CE	20:AU:23:LYS:HB3	2.28	0.62
21:AV:18:LYS:CE	21:AV:18:LYS:HA	2.22	0.62
22:AW:48:LYS:HB3	22:AW:51:GLU:HG3	1.81	0.62
49:B2:6:VAL:HB	49:B2:54:VAL:HG21	1.81	0.62
50:B3:48:ARG:N	50:B3:52:THR:OG1	2.31	0.62
51:B4:12:SER:HB3	51:B4:14:ALA:HB3	1.82	0.62
51:B4:51:TYR:HD1	51:B4:55:ARG:N	1.97	0.62
53:B6:36:GLN:NE2	53:B6:36:GLN:HA	2.14	0.62
24:BA:458:G:H2'	53:B6:40:TRP:NE1	2.15	0.62
53:B6:8:ASN:O	53:B6:9:ARG:C	2.37	0.62
24:BA:1000:A:H61	24:BA:1155:A:C5'	2.12	0.62
24:BA:1241:A:C4	24:BA:1241:A:H5''	2.28	0.62
24:BA:1249:U:N3	36:BO:21:ARG:NH1	2.47	0.62
24:BA:1342:A:C2'	24:BA:1345:C:N4	2.52	0.62
24:BA:1299:G:N1	24:BA:1639:U:H3'	2.13	0.62
24:BA:1797:C:H2'	24:BA:1798:U:H6	1.63	0.62
24:BA:1799:G:O2'	24:BA:1800:C:O5'	2.17	0.62
24:BA:2009:G:C6	24:BA:2010:G:N7	2.66	0.62
24:BA:2063:C:H3'	24:BA:2064:C:C5'	2.21	0.62
24:BA:233:A:H2'	24:BA:234:C:C5'	2.29	0.62
24:BA:2530:A:C2'	24:BA:2531:A:H5''	2.30	0.62
24:BA:2537:U:H2'	24:BA:2538:C:C5	2.34	0.62
24:BA:2620:C:OP1	28:BE:153:GLY:HA2	1.98	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2644:G:N1	24:BA:2645:G:N2	2.47	0.62
24:BA:220:G:H21	24:BA:265:A:N6	1.97	0.62
24:BA:270(C):C:OP2	24:BA:365:C:O2'	2.16	0.62
24:BA:270(I):G:H2'	24:BA:270(J):G:O4'	1.99	0.62
24:BA:321:G:H4'	29:BF:165:ARG:O	1.98	0.62
24:BA:295:G:C1'	24:BA:345:A:H2	2.12	0.62
24:BA:498:G:H2'	24:BA:499:U:H5'	1.81	0.62
24:BA:514:A:H2	24:BA:515:A:C1'	2.11	0.62
24:BA:520:G:O2'	24:BA:521:G:H5'	2.00	0.62
24:BA:592:G:H3'	24:BA:593:G:O4'	1.98	0.62
24:BA:702:G:C2	24:BA:731:C:N3	2.67	0.62
24:BA:989:G:H2'	24:BA:990:A:OP2	1.99	0.62
25:BB:57:A:C8	25:BB:57:A:H3'	2.34	0.62
25:BB:77:U:OP1	46:BY:19:ARG:NH1	2.32	0.62
24:BA:2571:C:C1'	28:BE:146:THR:HG23	2.28	0.62
28:BE:151:TYR:CE1	28:BE:153:GLY:N	2.67	0.62
29:BF:34:TRP:O	29:BF:37:VAL:HB	1.99	0.62
30:BG:120:LEU:CD2	30:BG:181:ARG:HG2	2.29	0.62
31:BH:127:GLU:CB	31:BH:130:ARG:H	2.13	0.62
31:BH:127:GLU:HG3	31:BH:130:ARG:CB	2.28	0.62
31:BH:84:SER:CA	31:BH:134:SER:HA	2.25	0.62
32:BK:21:VAL:O	32:BK:26:ALA:N	2.31	0.62
32:BK:9:LEU:HB2	32:BK:13:GLY:C	2.19	0.62
33:BL:111:LYS:O	33:BL:113:PRO:HD2	1.99	0.62
33:BL:115:LEU:CD1	33:BL:118:THR:HA	2.30	0.62
34:BM:22:THR:HG22	34:BM:61:ARG:CZ	2.29	0.62
34:BM:95:PRO:HA	34:BM:98:VAL:CG2	2.29	0.62
37:BP:116:GLU:O	37:BP:119:ARG:HB2	2.00	0.62
43:BV:13:SER:C	43:BV:16:LYS:HZ3	2.02	0.62
45:BX:7:VAL:HG22	45:BX:71:LYS:CG	2.28	0.62
45:BX:96:ILE:HD12	45:BX:96:ILE:N	2.14	0.62
46:BY:73:GLN:O	46:BY:87:ASP:CB	2.48	0.62
25:BB:12:C:H5''	47:BZ:74:ARG:CG	2.27	0.62
32:BK:101:LEU:HD23	32:BK:101:LEU:H	1.64	0.62
32:BK:87:LYS:HG2	32:BK:121:LYS:C	2.19	0.62
26:BC:86:ALA:CB	26:BC:149:ILE:HG12	2.29	0.62
26:BC:175:VAL:HA	26:BC:188:ASN:HD22	1.62	0.62
26:BC:54:SER:HA	26:BC:57:ASN:HD22	1.64	0.62
33:BL:98:ARG:NH1	33:BL:139:VAL:HG21	2.14	0.62
1:AA:727:G:C8	1:AA:727:G:C3'	2.82	0.62
26:BC:71:GLN:HG3	26:BC:72:VAL:N	2.13	0.62
1:AA:177:C:N3	1:AA:178:C:C5	2.68	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:438:G:H2'	1:AA:494:U:O4	1.98	0.62
1:AA:520:A:N6	1:AA:529:G:C2	2.67	0.62
1:AA:710:G:O2'	1:AA:711:G:H5'	1.99	0.62
1:AA:851:G:C2	1:AA:852:G:H1'	2.35	0.62
1:AA:86:U:H2'	1:AA:87:A:H5'	1.82	0.62
3:AC:30:G:H2'	3:AC:31:A:O4'	1.99	0.62
4:AE:115:LEU:HB2	4:AE:145:LEU:CD2	2.30	0.62
4:AE:91:PRO:CG	4:AE:154:LEU:HB3	2.22	0.62
6:AG:146:ILE:H	6:AG:146:ILE:HD12	1.64	0.62
6:AG:61:LYS:CA	6:AG:203:VAL:HG22	2.29	0.62
6:AG:8:VAL:CG1	6:AG:11:LEU:HD12	2.29	0.62
8:AI:52:ILE:HG21	8:AI:87:ARG:CZ	2.30	0.62
1:AA:826:C:H5'	10:AK:12:ARG:NE	2.15	0.62
10:AK:79:VAL:HB	10:AK:80:ILE:HD12	1.80	0.62
10:AK:87:SER:HB3	10:AK:93:VAL:HG23	1.81	0.62
11:AL:97:LYS:HZ2	11:AL:102:LEU:HB3	1.64	0.62
11:AL:26:VAL:HG22	11:AL:61:ALA:HB3	1.81	0.62
12:AM:31:GLY:HA3	12:AM:74:ILE:CG2	2.29	0.62
12:AM:60:ARG:CZ	12:AM:60:ARG:HB2	2.29	0.62
12:AM:79:ARG:NH1	12:AM:82:ILE:HB	2.14	0.62
13:AN:92:GLU:O	13:AN:94:ALA:N	2.32	0.62
14:AO:33:ARG:CG	14:AO:60:LEU:HD23	2.29	0.62
1:AA:1329:A:C5'	15:AP:29:ARG:NE	2.63	0.62
15:AP:60:VAL:HG13	15:AP:64:TRP:HB2	1.80	0.62
16:AQ:48:ALA:CA	16:AQ:53:LEU:HD12	2.29	0.62
18:AS:53:VAL:HG23	18:AS:54:GLU:N	2.14	0.62
1:AA:375:U:O2'	18:AS:6:LEU:CD2	2.48	0.62
8:AI:46:ARG:HH22	20:AU:37:VAL:HG22	1.64	0.62
50:B3:33:VAL:HG12	50:B3:35:VAL:HG23	1.82	0.62
52:B5:45:LYS:O	52:B5:46:HIS:HB3	1.98	0.62
54:B7:9:GLY:O	54:B7:14:VAL:HB	1.98	0.62
54:B7:49:VAL:O	54:B7:53:PRO:CG	2.47	0.62
24:BA:1075:C:O2'	33:BL:90:LYS:NZ	2.31	0.62
24:BA:1223:C:C2	24:BA:1227:A:C2	2.87	0.62
24:BA:1449:A:C8	24:BA:1529:A:N1	2.67	0.62
24:BA:1528:A:C8	24:BA:1529:A:C2	2.87	0.62
24:BA:1798:U:H5'	24:BA:1803:A:H4'	1.81	0.62
24:BA:1824:G:C2	24:BA:1825:A:H1'	2.32	0.62
24:BA:1916:A:C2	24:BA:1917:U:O4	2.52	0.62
24:BA:1925:C:O2'	24:BA:1926:U:H5'	1.99	0.62
24:BA:2046:G:OP1	51:B4:18:ALA:C	2.38	0.62
24:BA:2113:A:C2'	24:BA:2114:G:H5'	2.29	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2392:A:H2'	24:BA:2393:A:C5'	2.29	0.62
24:BA:2413:G:C2	24:BA:2414:G:H1'	2.34	0.62
24:BA:2482:G:H2'	24:BA:2483:C:H5'	1.81	0.62
24:BA:2519:U:C5'	24:BA:2520:C:OP1	2.46	0.62
24:BA:2533:A:H2'	24:BA:2534:A:C8	2.33	0.62
24:BA:2654:A:H4'	24:BA:2656:U:H5	1.64	0.62
24:BA:270(E):G:H2'	24:BA:270(F):U:C6	2.34	0.62
24:BA:2720:U:C2	24:BA:2721:A:C8	2.87	0.62
24:BA:270(X):G:H4'	24:BA:272:G:O3'	1.99	0.62
24:BA:593:G:C6	24:BA:594:U:C4	2.87	0.62
24:BA:5:A:H2'	24:BA:6:A:H8	1.63	0.62
24:BA:637:A:H2	24:BA:651:G:C5'	2.13	0.62
24:BA:669:G:N3	24:BA:669:G:C2'	2.59	0.62
24:BA:685:A:O4'	24:BA:774:A:N6	2.32	0.62
24:BA:729:G:OP1	27:BD:13:ARG:NH1	2.30	0.62
24:BA:915:C:H2'	24:BA:916:G:C8	2.33	0.62
24:BA:942:G:H5'	36:BO:32:THR:CG2	2.29	0.62
25:BB:100:G:C4	25:BB:101:A:N7	2.68	0.62
25:BB:25:A:H2'	25:BB:26:A:O4'	1.98	0.62
25:BB:76:G:P	46:BY:11:GLU:HA	2.39	0.62
24:BA:1971:A:C2	27:BD:239:ARG:HA	2.34	0.62
27:BD:8:PRO:O	27:BD:25:THR:HG23	2.00	0.62
27:BD:267:SER:O	27:BD:268:ARG:O	2.18	0.62
27:BD:5:LYS:CB	27:BD:82:ILE:HD12	2.29	0.62
28:BE:119:ARG:NH2	28:BE:155:LYS:HB3	2.13	0.62
30:BG:107:LEU:CD2	30:BG:173:LEU:HD21	2.29	0.62
30:BG:173:LEU:HG	30:BG:173:LEU:O	1.98	0.62
32:BK:38:LEU:HD22	32:BK:39:ALA:H	1.63	0.62
24:BA:244:A:O3'	36:BO:65:ARG:NH2	2.32	0.62
37:BP:11:LYS:HZ3	37:BP:73:PRO:HG3	1.64	0.62
38:BQ:102:GLU:CG	38:BQ:103:ARG:N	2.62	0.62
39:BR:39:ILE:O	39:BR:47:THR:HG23	2.00	0.62
40:BS:28:VAL:HG13	40:BS:92:GLY:CA	2.29	0.62
42:BU:36:PRO:CA	42:BU:60:GLU:O	2.43	0.62
43:BV:74:ALA:HB1	43:BV:105:VAL:HA	1.80	0.62
45:BX:1:MET:HG3	45:BX:67:LEU:HD22	1.80	0.62
45:BX:19:LYS:HB3	45:BX:21:LYS:HG2	1.81	0.62
45:BX:40:GLU:C	45:BX:62:GLU:OE2	2.37	0.62
45:BX:95:LYS:HG3	45:BX:103:GLY:HA2	1.81	0.62
46:BY:39:VAL:HG13	46:BY:44:PHE:CE2	2.34	0.62
46:BY:94:GLU:N	46:BY:95:PRO:HD3	1.97	0.62
26:BC:10:LEU:HD13	26:BC:32:LEU:O	1.98	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:BC:161:ILE:CG2	26:BC:174:PRO:HG2	2.29	0.62
26:BC:62:VAL:CB	26:BC:195:ALA:HB2	2.29	0.62
24:BA:182:A:C2	24:BA:183:C:C2	2.87	0.62
24:BA:363(D):G:O2'	24:BA:363(E):U:H5'	2.00	0.62
1:AA:1021:G:H2'	1:AA:1022:G:O4'	2.00	0.62
1:AA:1194:U:H2'	1:AA:1195:C:O4'	1.99	0.62
1:AA:1271:G:OP1	1:AA:1314:C:C5'	2.45	0.62
1:AA:68:G:O4'	1:AA:171:A:H1'	1.99	0.62
1:AA:228:A:H2'	1:AA:229:U:C5'	2.28	0.62
1:AA:257:G:O2'	1:AA:258:G:H5'	1.99	0.62
1:AA:373:A:O2'	1:AA:374:A:H5'	1.99	0.62
1:AA:376:G:H2'	1:AA:377:G:C8	2.26	0.62
1:AA:376:G:H5''	18:AS:5:ARG:HD2	1.80	0.62
1:AA:523:A:H8	1:AA:523:A:O5'	1.81	0.62
1:AA:56:U:H2'	1:AA:57:G:H8	1.64	0.62
1:AA:873:A:OP1	1:AA:873:A:C8	2.52	0.62
3:AB:10:G:H2'	3:AB:11:C:C6	2.33	0.62
3:AD:3:C:H2'	3:AD:4:C:H6	1.62	0.62
4:AE:101:MET:HB3	4:AE:108:ILE:HG13	1.80	0.62
4:AE:132:LYS:HZ2	4:AE:132:LYS:HB3	1.65	0.62
4:AE:118:LEU:HD22	4:AE:142:LEU:HD12	1.82	0.62
5:AF:10:PHE:HB3	5:AF:11:ARG:HE	1.64	0.62
6:AG:102:ASP:HB2	6:AG:136:PRO:C	2.19	0.62
6:AG:170:VAL:N	6:AG:176:LEU:HD22	2.10	0.62
6:AG:196:LEU:O	6:AG:196:LEU:HD12	2.00	0.62
6:AG:26:CYS:O	6:AG:31:CYS:SG	2.57	0.62
8:AI:44:GLY:HA2	8:AI:59:TYR:CZ	2.34	0.62
8:AI:94:GLN:HB3	20:AU:32:ARG:NH2	2.14	0.62
1:AA:933:G:N7	9:AJ:3:ARG:NH2	2.46	0.62
9:AJ:5:ARG:HD2	9:AJ:5:ARG:C	2.20	0.62
12:AM:75:ILE:HG22	12:AM:76:ASN:H	1.64	0.62
16:AQ:27:CYS:H	16:AQ:43:CYS:CB	2.11	0.62
1:AA:127:G:HO2'	19:AT:2:PRO:N	1.97	0.62
19:AT:80:GLY:O	19:AT:82:MET:N	2.32	0.62
23:AX:9:ARG:NH1	23:AX:21:TYR:HD2	1.96	0.62
48:B1:20:VAL:HG22	48:B1:24:LYS:HE3	1.81	0.62
50:B3:35:VAL:HG12	50:B3:36:CYS:N	2.14	0.62
24:BA:2284:C:H5''	52:B5:9:LEU:HD21	1.81	0.62
53:B6:8:ASN:ND2	53:B6:10:ARG:HB2	2.14	0.62
24:BA:666:G:H5'	54:B7:59:LYS:HZ1	1.63	0.62
55:B8:20:HIS:O	55:B8:22:ARG:HG2	1.99	0.62
24:BA:1020:A:H5''	24:BA:1021:A:OP1	1.99	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1079:C:HO2'	24:BA:1080:C:H5'	1.65	0.62
24:BA:1131:G:N2	34:BM:72:TYR:HE1	1.97	0.62
24:BA:1130:U:O2'	24:BA:1131:G:OP1	2.18	0.62
24:BA:1195:G:H2'	24:BA:1226:G:N2	2.14	0.62
24:BA:1213:A:H1'	24:BA:1238:G:H1'	1.80	0.62
24:BA:13:A:H61	24:BA:525:U:H2'	1.63	0.62
24:BA:1429:G:H3'	24:BA:1430:C:C6	2.32	0.62
24:BA:1471:A:H2'	24:BA:1472:A:C5'	2.29	0.62
24:BA:1602:U:H2'	24:BA:1603:A:C5'	2.28	0.62
24:BA:1689:A:N7	24:BA:1700:A:C5	2.67	0.62
24:BA:1848:A:H2'	24:BA:1849:G:O4'	1.99	0.62
24:BA:197:A:C2	24:BA:198:C:C1'	2.82	0.62
24:BA:858:U:HO2'	24:BA:2268:A:H2'	1.63	0.62
24:BA:570:G:H22	24:BA:2498:C:C1'	2.12	0.62
24:BA:2499:C:O2	24:BA:2499:C:H2'	1.98	0.62
24:BA:2653:U:H3'	24:BA:2654:A:C8	2.34	0.62
24:BA:2720:U:H2'	24:BA:2721:A:H8	1.65	0.62
24:BA:2043:C:C4	24:BA:2777:G:N3	2.67	0.62
24:BA:270(C):C:OP1	24:BA:365:C:H1'	1.99	0.62
24:BA:247:G:HO2'	24:BA:386:G:H1	1.43	0.62
24:BA:404:C:H5'	24:BA:406:G:C1'	2.28	0.62
24:BA:460:A:H2'	24:BA:461:C:C6	2.33	0.62
24:BA:541:C:C2	24:BA:542:C:C5	2.86	0.62
24:BA:565:C:O2'	24:BA:1252:G:N7	2.33	0.62
24:BA:744:G:N2	24:BA:754:C:C2	2.67	0.62
24:BA:798:G:OP1	29:BF:58:ALA:O	2.18	0.62
24:BA:808:G:H2'	24:BA:809:G:O4'	1.99	0.62
24:BA:942:G:C2	24:BA:943:U:N3	2.67	0.62
24:BA:949:C:C2	24:BA:950:G:C8	2.88	0.62
24:BA:987:G:OP2	49:B2:13:ILE:CD1	2.47	0.62
25:BB:14:U:H1'	25:BB:107:U:O4'	2.00	0.62
25:BB:117:G:H2'	25:BB:117:G:N3	2.13	0.62
27:BD:177:LEU:O	27:BD:178:PRO:C	2.38	0.62
27:BD:259:THR:CG2	27:BD:260:ARG:HH12	2.13	0.62
28:BE:13:ARG:HD2	28:BE:20:ALA:O	2.00	0.62
28:BE:53:PRO:HG3	28:BE:75:VAL:HG21	1.81	0.62
29:BF:183:VAL:CA	29:BF:186:ILE:HD12	2.25	0.62
29:BF:74:ARG:CD	29:BF:75:HIS:H	2.12	0.62
30:BG:134:GLY:O	30:BG:155:MET:O	2.17	0.62
30:BG:47:LYS:HD3	30:BG:72:ARG:O	1.99	0.62
30:BG:68:PRO:HG3	30:BG:90:LEU:CD2	2.29	0.62
31:BH:127:GLU:CG	31:BH:130:ARG:HB2	2.29	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:BH:13:LYS:HG3	31:BH:15:VAL:N	2.14	0.62
31:BH:44:VAL:O	31:BH:50:VAL:HA	2.00	0.62
31:BH:7:LEU:N	31:BH:7:LEU:HD23	2.14	0.62
31:BH:84:SER:HA	31:BH:134:SER:CA	2.25	0.62
34:BM:12:ARG:HD2	34:BM:50:ASP:HA	1.81	0.62
35:BN:35:VAL:CA	35:BN:61:VAL:HG11	2.29	0.62
36:BO:122:PRO:HB3	36:BO:134:ALA:O	2.00	0.62
38:BQ:93:GLY:C	38:BQ:95:THR:H	2.03	0.62
41:BT:97:ASP:HB3	41:BT:101:ARG:CZ	2.28	0.62
41:BT:47:TYR:O	41:BT:51:LYS:HG3	1.99	0.62
41:BT:45:TYR:C	41:BT:49:HIS:ND1	2.53	0.62
41:BT:83:LEU:O	41:BT:90:VAL:HG22	1.98	0.62
42:BU:69:LYS:HE2	42:BU:70:ILE:HD11	1.79	0.62
42:BU:67:GLY:N	42:BU:94:LEU:HA	2.15	0.62
45:BX:26:LYS:O	45:BX:27:VAL:HG23	1.97	0.62
45:BX:83:THR:O	45:BX:94:LYS:HA	2.00	0.62
46:BY:48:PHE:CB	46:BY:54:HIS:HE1	2.13	0.62
24:BA:1418:G:H5'	24:BA:1587:A:O2'	2.00	0.62
17:AR:45:VAL:O	17:AR:45:VAL:HG12	1.99	0.62
1:AA:116:A:H8	1:AA:116:A:O5'	1.83	0.62
1:AA:1193:G:H2'	1:AA:1194:U:O5'	1.99	0.62
1:AA:971:G:P	1:AA:1231:G:H21	2.23	0.62
1:AA:1278:U:OP1	1:AA:1279:A:H4'	1.99	0.62
1:AA:1305:G:H21	1:AA:1331:G:H2'	1.64	0.62
1:AA:1357:A:O5'	1:AA:1357:A:H8	1.83	0.62
1:AA:255:G:C4'	19:AT:16:GLN:O	2.44	0.62
1:AA:301:G:N2	1:AA:302:G:C4	2.67	0.62
1:AA:607:A:O2'	1:AA:608:A:H5'	1.99	0.62
1:AA:706:A:H4'	13:AN:29:ILE:CD1	2.30	0.62
1:AA:937:A:N7	1:AA:938:A:N7	2.48	0.62
3:AB:34:G:N2	3:AB:35:A:H1'	2.15	0.62
3:AC:36:A:H61	3:AC:37:A:N6	1.98	0.62
4:AE:10:LEU:HD23	4:AE:11:LEU:HD21	1.81	0.62
4:AE:53:ARG:HH12	4:AE:200:ILE:CD1	2.12	0.62
4:AE:78:GLN:HE22	4:AE:96:ARG:HH22	1.43	0.62
4:AE:96:ARG:HD2	4:AE:96:ARG:H	1.64	0.62
5:AF:23:TYR:CD2	5:AF:24:ALA:N	2.64	0.62
6:AG:100:ARG:HB2	6:AG:103:ASN:HB2	1.82	0.62
6:AG:92:VAL:HG12	6:AG:96:LEU:HD11	1.81	0.62
7:AH:87:SER:HB3	7:AH:131:ILE:HG12	1.81	0.62
10:AK:112:LEU:HB2	10:AK:132:GLU:O	1.99	0.62
4:AE:196:LEU:HA	10:AK:74:PRO:HG3	1.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AN:48:ILE:HD11	13:AN:64:ALA:CB	2.29	0.62
14:AO:24:VAL:HG23	14:AO:97:ARG:CG	2.24	0.62
1:AA:362:G:H4'	14:AO:28:LYS:HZ1	1.65	0.62
1:AA:1228:C:OP1	15:AP:115:LYS:N	2.32	0.62
15:AP:20:THR:HA	15:AP:25:ILE:CG2	2.30	0.62
15:AP:62:ASN:C	15:AP:64:TRP:H	2.02	0.62
11:AL:111:ARG:HD2	16:AQ:61:TRP:HE1	1.65	0.62
1:AA:273:A:H1'	19:AT:16:GLN:OE1	2.00	0.62
19:AT:97:SER:O	19:AT:98:LEU:HD13	1.98	0.62
20:AU:51:LEU:N	20:AU:51:LEU:CD1	2.63	0.62
21:AV:33:THR:CG2	21:AV:49:ILE:HD12	2.30	0.62
50:B3:14:ILE:HB	50:B3:37:SER:O	1.99	0.62
24:BA:1025:G:N3	24:BA:1025:G:C2'	2.63	0.62
24:BA:1072:C:H2'	24:BA:1093:G:C5	2.35	0.62
24:BA:1131:G:O2'	24:BA:1132:A:O5'	2.10	0.62
24:BA:1351:C:H4'	24:BA:1571:A:O2'	1.98	0.62
24:BA:1363:C:O3'	24:BA:1809:A:N6	2.32	0.62
24:BA:1669:A:N1	24:BA:1994:C:H1'	2.14	0.62
24:BA:200:U:H3'	24:BA:201:C:H5'	1.82	0.62
24:BA:2245:U:O2	24:BA:2435:A:C8	2.53	0.62
24:BA:2484:G:N2	37:BP:124:LYS:HD2	2.15	0.62
24:BA:2044:C:C6	24:BA:2625:G:N2	2.67	0.62
24:BA:262:A:O2'	24:BA:263:C:H5'	1.99	0.62
24:BA:220:G:N2	24:BA:265:A:N6	2.47	0.62
24:BA:269:U:H3'	24:BA:270(Y):G:O2'	1.99	0.62
24:BA:2732:G:H3'	24:BA:2733:A:H5'	1.81	0.62
24:BA:2733:A:C8	24:BA:2734:A:C8	2.88	0.62
24:BA:2781:A:H2'	24:BA:2782:G:C2'	2.29	0.62
24:BA:2876:G:OP1	40:BS:2:ASN:CB	2.48	0.62
24:BA:290:G:C8	24:BA:290:G:H3'	2.34	0.62
24:BA:341:G:H2'	24:BA:342:G:C8	2.34	0.62
24:BA:493:G:N2	24:BA:494:G:H1'	2.14	0.62
24:BA:607:U:C2	24:BA:608:A:C8	2.87	0.62
25:BB:74:U:H2'	25:BB:75:G:H1'	1.80	0.62
25:BB:77:U:H6	25:BB:77:U:H3'	1.64	0.62
27:BD:137:PRO:HG2	27:BD:140:THR:OG1	1.98	0.62
27:BD:159:ALA:HB3	27:BD:202:LYS:HZ1	1.63	0.62
28:BE:101:ARG:NH2	28:BE:171:GLU:HG2	2.11	0.62
28:BE:102:VAL:CA	28:BE:200:GLU:OE1	2.47	0.62
29:BF:43:LYS:HG3	29:BF:98:SER:HA	1.80	0.62
30:BG:90:LEU:O	30:BG:90:LEU:HD13	1.99	0.62
34:BM:37:LYS:HA	34:BM:42:TRP:CB	2.28	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BN:11:ALA:HB3	35:BN:97:ARG:HH22	1.64	0.62
35:BN:13:ASN:O	35:BN:13:ASN:OD1	2.16	0.62
35:BN:64:ARG:CZ	35:BN:66:LYS:H	2.13	0.62
24:BA:2484:G:N3	37:BP:124:LYS:HE2	2.14	0.62
37:BP:99:PRO:HD2	37:BP:101:ARG:NE	2.15	0.62
38:BQ:61:HIS:CE1	38:BQ:64:ARG:NE	2.68	0.62
39:BR:94:TYR:C	39:BR:99:LYS:HB2	2.18	0.62
40:BS:17:THR:C	40:BS:19:LEU:H	2.00	0.62
40:BS:63:VAL:O	40:BS:64:ARG:NH1	2.32	0.62
41:BT:8:VAL:HG23	41:BT:9:VAL:HG23	1.82	0.62
42:BU:40:LEU:HG	42:BU:55:ALA:CA	2.29	0.62
41:BT:112:ARG:NH1	42:BU:50:PRO:CG	2.54	0.62
42:BU:7:THR:HG23	42:BU:11:GLN:NE2	2.15	0.62
43:BV:29:LEU:O	43:BV:33:ARG:CB	2.44	0.62
43:BV:33:ARG:HD3	43:BV:37:ARG:CD	2.30	0.62
24:BA:338:G:OP1	45:BX:2:ARG:CZ	2.48	0.62
45:BX:47:LYS:O	45:BX:48:ALA:CB	2.48	0.62
45:BX:83:THR:HG22	45:BX:84:ARG:N	2.13	0.62
32:BK:77:LEU:CD1	32:BK:142:VAL:HG13	2.22	0.62
3:AD:18:G:N3	3:AD:19:G:H1'	2.15	0.62
24:BA:80:G:H1'	24:BA:347:A:H61	1.64	0.62
1:AA:1381:U:H2'	1:AA:1382:C:H5'	1.81	0.62
1:AA:1296:C:C1'	1:AA:1302:U:O4	2.47	0.62
1:AA:1299:A:C5	1:AA:1301:U:H1'	2.34	0.62
1:AA:1315:U:H2'	1:AA:1316:G:O4'	2.00	0.62
1:AA:279:A:N3	1:AA:281:G:N2	2.48	0.62
1:AA:59:A:H4'	1:AA:388:G:H5''	1.80	0.62
1:AA:541:G:H4'	6:AG:42:GLN:CB	2.30	0.62
1:AA:645:C:H2'	1:AA:646:U:C6	2.34	0.62
1:AA:851:G:O2'	1:AA:852:G:H5'	1.99	0.62
1:AA:859:A:H2'	1:AA:860:A:O5'	2.00	0.62
1:AA:96:G:H2'	1:AA:97:U:H6	1.63	0.62
3:AC:66:U:H3'	3:AC:67:C:H6	1.63	0.62
3:AC:6:G:C2'	3:AC:7:A:C8	2.77	0.62
4:AE:17:PHE:HA	4:AE:42:ILE:HG22	1.80	0.62
4:AE:47:THR:O	4:AE:51:LEU:CG	2.45	0.62
4:AE:97:TRP:CH2	4:AE:176:GLU:CG	2.83	0.62
1:AA:1107:C:P	5:AF:172:ARG:HG2	2.39	0.62
8:AI:52:ILE:HG22	8:AI:53:ALA:H	1.63	0.62
9:AJ:72:ARG:NH2	9:AJ:138:LYS:HZ3	1.95	0.62
10:AK:113:SER:O	10:AK:131:GLY:HA3	2.00	0.62
12:AM:10:GLY:CA	12:AM:94:VAL:HG22	2.29	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AN:53:SER:O	13:AN:55:LYS:N	2.32	0.62
13:AN:27:ASN:HA	13:AN:55:LYS:O	2.00	0.62
13:AN:57:THR:CG2	13:AN:59:TYR:HB3	2.29	0.62
1:AA:523:A:N6	14:AO:53:ARG:HH22	1.96	0.62
18:AS:3:LYS:HE2	18:AS:24:ALA:CB	2.28	0.62
1:AA:237:C:H5''	19:AT:25:ARG:NH1	2.14	0.62
19:AT:75:ARG:HG2	19:AT:76:LEU:N	2.14	0.62
20:AU:21:LYS:HD2	20:AU:23:LYS:H	1.65	0.62
21:AV:38:SER:HB3	21:AV:71:LEU:CG	2.29	0.62
21:AV:11:VAL:HG11	21:AV:41:VAL:CG2	2.29	0.62
21:AV:19:VAL:HG21	21:AV:44:MET:HG2	1.82	0.62
52:B5:19:ARG:H	52:B5:19:ARG:CD	2.11	0.62
24:BA:1619:G:C2	53:B6:3:ARG:NH1	2.68	0.62
24:BA:1027:A:H2'	24:BA:1028:A:H8	1.64	0.62
24:BA:1036:G:C2	24:BA:1120:G:C6	2.88	0.62
24:BA:1355:G:C2	24:BA:1377:G:N3	2.68	0.62
24:BA:1424:G:C8	24:BA:1424:G:OP2	2.52	0.62
24:BA:1457:A:C2'	24:BA:1458:C:H5'	2.30	0.62
24:BA:1463:C:C2'	24:BA:1464:C:O5'	2.47	0.62
24:BA:1559:G:H1	24:BA:1560:G:C4'	2.09	0.62
24:BA:1943:U:H4'	24:BA:1944:U:H5'	1.82	0.62
24:BA:2093:G:H2'	24:BA:2094:G:O5'	1.99	0.62
24:BA:2244:U:C2'	24:BA:2245:U:O5'	2.47	0.62
24:BA:2332:U:O2'	24:BA:2336:A:N7	2.31	0.62
24:BA:2415:G:C6	24:BA:2416:C:N4	2.67	0.62
24:BA:2538:C:H2'	24:BA:2539:C:H6	1.61	0.62
24:BA:2569:G:C6	24:BA:2570:G:N7	2.67	0.62
24:BA:263:C:C2'	24:BA:263:C:O2	2.48	0.62
24:BA:2747:G:O6	24:BA:2755:C:C5'	2.46	0.62
24:BA:572:A:C5	24:BA:573:G:C2	2.87	0.62
24:BA:811:U:O2'	24:BA:1251:C:C1'	2.41	0.62
24:BA:82:G:N2	24:BA:83:G:N2	2.48	0.62
24:BA:919:G:H4'	25:BB:81:G:O2'	2.00	0.62
24:BA:966:G:C1'	24:BA:2267:A:H61	2.13	0.62
25:BB:115:G:OP2	25:BB:115:G:H8	1.82	0.62
25:BB:44:G:O2'	25:BB:47:C:N4	2.33	0.62
27:BD:127:VAL:HA	27:BD:193:VAL:CG1	2.16	0.62
27:BD:76:PRO:HG2	27:BD:98:VAL:CG2	2.23	0.62
27:BD:89:SER:OG	27:BD:159:ALA:N	2.33	0.62
27:BD:7:LYS:HD2	27:BD:91:ARG:HE	1.64	0.62
27:BD:94:LEU:HD22	27:BD:104:TYR:CE1	2.33	0.62
28:BE:41:LYS:C	28:BE:43:GLY:N	2.52	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:BG:55:LYS:CG	30:BG:148:MET:HB2	2.30	0.62
30:BG:75:LYS:HZ3	30:BG:87:PRO:HD3	1.64	0.62
25:BB:45:A:H1'	30:BG:95:ARG:NH1	2.15	0.62
31:BH:25:LYS:HD3	31:BH:27:LYS:CD	2.30	0.62
33:BL:17:ALA:O	33:BL:38:VAL:HG11	2.00	0.62
34:BM:55:VAL:HG13	34:BM:56:ASN:N	2.13	0.62
34:BM:23:LEU:HD12	34:BM:63:THR:H	1.60	0.62
34:BM:76:SER:C	34:BM:78:TYR:N	2.53	0.62
35:BN:18:LYS:NZ	35:BN:44:LYS:HD3	2.14	0.62
37:BP:111:GLU:C	37:BP:113:GLN:H	2.01	0.62
39:BR:67:ARG:NH2	39:BR:67:ARG:HG2	2.09	0.62
40:BS:104:ASN:CA	40:BS:107:ASP:OD2	2.47	0.62
40:BS:93:ARG:HG2	40:BS:95:ARG:NH1	2.14	0.62
41:BT:105:VAL:O	41:BT:109:LEU:CG	2.40	0.62
41:BT:8:VAL:N	41:BT:11:ARG:HH21	1.98	0.62
32:BK:113:ARG:O	32:BK:114:LEU:HD23	1.99	0.62
32:BK:77:LEU:HD21	32:BK:140:LEU:HD23	1.82	0.62
32:BK:77:LEU:HB2	32:BK:142:VAL:HG13	1.80	0.62
26:BC:162:GLU:C	26:BC:163:PHE:CD2	2.66	0.62
26:BC:59:ARG:NH1	26:BC:164:ARG:HH11	1.97	0.62
26:BC:29:VAL:HG13	26:BC:30:LYS:N	2.13	0.62
26:BC:75:LEU:HD11	26:BC:99:ILE:CG2	2.26	0.62
45:BX:42:VAL:HG23	45:BX:61:ILE:HG21	1.79	0.62
39:BR:54:LEU:HG	39:BR:56:LEU:CD2	2.27	0.62
25:BB:35:U:C2'	25:BB:35:U:O2	2.48	0.62
1:AA:511:C:C2	1:AA:512:U:C5	2.88	0.62
24:BA:492:A:C8	24:BA:492:A:OP2	2.53	0.62
25:BB:0:A:C5'	25:BB:0:A:N3	2.63	0.62
22:AW:8:ARG:HB3	22:AW:8:ARG:NH1	2.14	0.62
24:BA:1563:G:H2'	24:BA:1564:C:H6	1.64	0.62
1:AA:1105:A:H2'	1:AA:1106:G:H8	1.64	0.62
1:AA:1252:A:C5	1:AA:1253:G:N7	2.67	0.62
1:AA:363:A:C5	14:AO:31:PRO:HD2	2.35	0.62
1:AA:37:U:P	14:AO:123:LYS:HD2	2.40	0.62
1:AA:566:G:H4'	1:AA:567:G:H5'	1.81	0.62
1:AA:580:U:H3'	1:AA:581:G:C8	2.34	0.62
1:AA:649:G:H2'	1:AA:650:G:H8	1.63	0.62
1:AA:771:G:C6	1:AA:809:G:C6	2.88	0.62
1:AA:965:A:N1	15:AP:124:PRO:HB3	2.14	0.62
3:AC:25:C:H2'	3:AC:26:A:C8	2.34	0.62
3:AC:31:A:H3'	3:AC:32:U:C6	2.34	0.62
4:AE:60:ASP:CG	4:AE:64:ARG:NH2	2.53	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:11:ARG:HG3	5:AF:16:ARG:NE	2.15	0.62
5:AF:151:VAL:HG22	5:AF:200:ALA:HB1	1.82	0.62
1:AA:1191:A:P	5:AF:4:LYS:HZ3	2.22	0.62
9:AJ:140:ASP:O	9:AJ:144:MET:HB3	1.99	0.62
10:AK:112:LEU:HD21	10:AK:114:THR:HG23	1.81	0.62
10:AK:129:VAL:CG2	10:AK:130:GLY:H	2.09	0.62
10:AK:114:THR:HA	10:AK:131:GLY:CA	2.29	0.62
11:AL:37:PHE:CD1	11:AL:43:ALA:HA	2.35	0.62
13:AN:33:THR:HG22	13:AN:39:PRO:HB3	1.82	0.62
15:AP:13:LYS:HB3	15:AP:17:VAL:CB	2.29	0.62
1:AA:836:G:P	20:AU:61:LYS:NZ	2.73	0.62
22:AW:12:ALA:H	22:AW:13:LEU:CD1	2.01	0.62
22:AW:14:LYS:N	22:AW:17:ARG:HH21	1.98	0.62
22:AW:73:HIS:N	22:AW:76:ALA:HB3	2.09	0.62
23:AX:2:GLY:N	23:AX:5:ASP:HB2	2.14	0.62
53:B6:21:ARG:HB2	53:B6:21:ARG:CZ	2.30	0.62
24:BA:1023:U:OP1	24:BA:1025:G:N2	2.33	0.62
24:BA:1000:A:C2	24:BA:1155:A:C2	2.88	0.62
24:BA:1268:A:C4	24:BA:2013:A:N6	2.68	0.62
24:BA:1527:G:N2	24:BA:1545:A:N7	2.46	0.62
24:BA:1570:A:N6	24:BA:1571:A:N6	2.41	0.62
24:BA:1657:C:C2	24:BA:1658:C:C6	2.87	0.62
24:BA:1672:C:C5	24:BA:1673:U:H6	2.17	0.62
24:BA:1862:G:H2'	24:BA:1863:G:C8	2.35	0.62
24:BA:1878:G:O2'	24:BA:1879:C:H5'	1.98	0.62
24:BA:1935:G:C4	24:BA:1962:C:C4	2.88	0.62
24:BA:2009:G:H1'	38:BQ:107:ASP:O	1.99	0.62
24:BA:200:U:O4	24:BA:248:G:N7	2.33	0.62
24:BA:2080:G:O2'	24:BA:2081:C:H5'	2.00	0.62
24:BA:2207:C:C2	24:BA:2208:U:O4'	2.52	0.62
24:BA:2603:G:C5	24:BA:2604:U:C5	2.87	0.62
24:BA:2626:C:H2'	24:BA:2627:G:C8	2.33	0.62
24:BA:515:A:H5''	41:BT:32:PHE:CZ	2.34	0.62
24:BA:533:G:C6	24:BA:534:U:N3	2.68	0.62
24:BA:548:A:H62	24:BA:549:G:N2	1.98	0.62
24:BA:594:U:C2'	24:BA:595:C:C6	2.80	0.62
24:BA:931:G:N2	49:B2:25:ALA:N	2.48	0.62
25:BB:69:G:N3	25:BB:69:G:H2'	2.14	0.62
27:BD:69:ARG:HH22	27:BD:130:ALA:HB2	1.64	0.62
28:BE:100:GLU:H	28:BE:172:VAL:HG22	1.65	0.62
28:BE:149:ARG:HD3	28:BE:149:ARG:C	2.19	0.62
29:BF:125:LEU:O	29:BF:127:GLU:N	2.32	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:BG:118:ARG:CZ	30:BG:118:ARG:HB3	2.29	0.62
30:BG:12:TYR:CD1	30:BG:13:GLU:N	2.68	0.62
30:BG:27:ASN:HB3	30:BG:29:TRP:CE2	2.35	0.62
30:BG:9:ARG:HH11	30:BG:9:ARG:HG3	1.65	0.62
31:BH:120:GLY:HA3	31:BH:136:ILE:CG2	2.27	0.62
32:BK:6:LEU:O	32:BK:15:VAL:N	2.27	0.62
32:BK:7:GLU:C	32:BK:14:ASP:HA	2.20	0.62
32:BK:8:PRO:HG3	32:BK:35:LEU:HB3	1.81	0.62
33:BL:116:ASN:HD21	33:BL:126:MET:HE1	1.64	0.62
33:BL:115:LEU:CD2	33:BL:126:MET:SD	2.87	0.62
33:BL:67:PHE:O	33:BL:68:VAL:HG13	1.99	0.62
37:BP:6:ARG:HG2	37:BP:7:MET:H	1.64	0.62
39:BR:100:ALA:HA	39:BR:103:GLU:OE2	2.00	0.62
39:BR:26:LEU:CD2	39:BR:37:ALA:HB1	2.29	0.62
40:BS:32:TYR:HB3	40:BS:88:ILE:HA	1.82	0.62
40:BS:63:VAL:O	40:BS:63:VAL:HG13	2.00	0.62
44:BW:12:VAL:HG13	44:BW:14:SER:HB3	1.80	0.62
45:BX:31:LEU:O	45:BX:33:LYS:N	2.33	0.62
26:BC:75:LEU:CD1	26:BC:99:ILE:HD13	2.29	0.62
33:BL:128:ALA:HB1	33:BL:138:VAL:CG1	2.30	0.62
33:BL:95:LYS:HG2	33:BL:137:GLU:OE2	1.99	0.62
1:AA:135:C:C6	1:AA:135:C:H3'	2.35	0.62
1:AA:1363:A:H1'	1:AA:1365:G:C6	2.35	0.62
1:AA:1461:G:H2'	1:AA:1462:G:C8	2.31	0.62
1:AA:434:U:H2'	1:AA:435:C:C6	2.35	0.62
1:AA:50:A:O2'	1:AA:360:A:H2	1.82	0.62
1:AA:591:U:H6	1:AA:591:U:O5'	1.82	0.62
1:AA:714:G:O2'	1:AA:715:A:H5'	2.00	0.62
1:AA:796:C:H2'	1:AA:797:C:C6	2.35	0.62
1:AA:848:C:O2'	1:AA:849:C:H5'	1.99	0.62
4:AE:35:GLU:CD	4:AE:35:GLU:C	2.59	0.62
4:AE:69:LEU:O	4:AE:162:ILE:CB	2.47	0.62
4:AE:92:TYR:HE2	4:AE:151:GLY:O	1.82	0.62
5:AF:66:VAL:C	5:AF:102:ASN:HD22	2.02	0.62
5:AF:24:ALA:HB3	5:AF:29:TYR:HB2	1.81	0.62
6:AG:57:ARG:HH22	7:AH:107:ARG:CD	2.13	0.62
6:AG:15:GLU:OE2	6:AG:63:LYS:HB3	2.00	0.62
1:AA:922:G:C4'	7:AH:20:GLN:HA	2.23	0.62
7:AH:24:ARG:C	7:AH:25:ARG:HD3	2.20	0.62
9:AJ:140:ASP:HA	9:AJ:143:ARG:NE	2.13	0.62
1:AA:826:C:C5'	10:AK:12:ARG:HH21	2.12	0.62
13:AN:82:VAL:HB	13:AN:108:ILE:CG1	2.27	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:538:G:OP1	14:AO:114:LYS:N	2.33	0.62
14:AO:57:LYS:HE2	14:AO:67:THR:HG21	1.82	0.62
15:AP:10:PRO:CG	15:AP:18:ALA:HA	2.28	0.62
15:AP:91:ARG:HH11	15:AP:96:LEU:HD12	1.65	0.62
18:AS:4:ILE:HG23	18:AS:21:VAL:HG13	1.82	0.62
19:AT:50:LYS:HD2	19:AT:51:TYR:CZ	2.35	0.62
22:AW:26:ASN:ND2	22:AW:27:LYS:H	1.98	0.62
22:AW:64:ASP:O	22:AW:67:ALA:CB	2.47	0.62
23:AX:5:ASP:O	23:AX:7:ARG:N	2.32	0.62
24:BA:1024:G:O6	24:BA:1138:G:O6	2.18	0.62
24:BA:1044:G:H8	24:BA:1044:G:H5'	1.64	0.62
24:BA:1072:C:H2'	24:BA:1093:G:N7	2.15	0.62
24:BA:1210:A:H1'	24:BA:1212:G:N2	2.15	0.62
24:BA:1341:U:H5''	24:BA:1342:A:N7	2.15	0.62
24:BA:1372:U:O5'	24:BA:1372:U:H6	1.82	0.62
24:BA:1472:A:C6	24:BA:1518:C:N4	2.68	0.62
24:BA:1647:G:H2'	24:BA:1647:G:N3	2.15	0.62
24:BA:1683:C:H2'	24:BA:1684:C:H6	1.65	0.62
1:AA:1495:U:H1'	24:BA:1912:A:N3	2.14	0.62
24:BA:2210:G:N7	27:BD:150:LYS:O	2.33	0.62
24:BA:2466:C:H2'	24:BA:2467:C:C6	2.35	0.62
24:BA:2512:C:H2'	24:BA:2513:G:H4'	1.82	0.62
24:BA:2603:G:O2'	24:BA:2604:U:H5'	2.00	0.62
24:BA:2630:G:H1'	24:BA:2894:G:C4	2.34	0.62
24:BA:563:G:N2	24:BA:578:A:N1	2.45	0.62
24:BA:643:A:H1'	24:BA:644:A:C8	2.35	0.62
24:BA:656:G:H2'	24:BA:657:U:H6	1.64	0.62
27:BD:118:VAL:O	27:BD:129:ASN:CA	2.47	0.62
27:BD:155:LEU:HA	27:BD:157:ARG:HH21	1.65	0.62
27:BD:7:LYS:HD3	27:BD:9:TYR:OH	2.00	0.62
28:BE:152:LYS:HE3	28:BE:153:GLY:HA3	1.80	0.62
28:BE:49:LEU:CD1	28:BE:76:ARG:HG2	2.30	0.62
24:BA:2636:U:O5'	28:BE:79:ARG:HB3	1.98	0.62
30:BG:135:LEU:HD12	30:BG:155:MET:HB2	1.82	0.62
31:BH:124:GLU:N	31:BH:124:GLU:OE1	2.33	0.62
31:BH:9:ILE:HD13	31:BH:73:ALA:CB	2.30	0.62
31:BH:88:LEU:CD2	31:BH:90:LYS:HB3	2.30	0.62
32:BK:5:LEU:HD13	32:BK:8:PRO:HB2	1.81	0.62
33:BL:78:ILE:HG21	33:BL:131:ALA:CB	2.29	0.62
34:BM:110:GLY:O	34:BM:114:ARG:CB	2.44	0.62
34:BM:63:THR:O	34:BM:65:LYS:HD2	1.99	0.62
35:BN:13:ASN:HB2	35:BN:94:ARG:HB2	1.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BN:10:VAL:HG12	35:BN:17:ARG:C	2.20	0.62
35:BN:24:VAL:CG1	35:BN:32:TYR:H	2.13	0.62
35:BN:57:VAL:HG23	35:BN:58:VAL:N	2.14	0.62
36:BO:88:LEU:HG	36:BO:124:LYS:HE3	1.81	0.62
36:BO:13:ASN:ND2	36:BO:14:LYS:H	1.87	0.62
24:BA:942:G:O3'	36:BO:32:THR:HA	1.99	0.62
37:BP:116:GLU:HA	37:BP:119:ARG:HG3	1.81	0.62
37:BP:46:GLN:O	37:BP:49:ALA:CB	2.46	0.62
40:BS:68:TYR:CD2	40:BS:70:VAL:HG22	2.34	0.62
41:BT:70:ARG:CG	41:BT:75:ASN:HA	2.20	0.62
43:BV:98:LYS:HB3	43:BV:98:LYS:NZ	2.15	0.62
45:BX:12:THR:HG22	45:BX:13:VAL:HG12	1.81	0.62
46:BY:104:PHE:N	46:BY:104:PHE:CD2	2.68	0.62
46:BY:151:HIS:ND1	46:BY:151:HIS:N	2.47	0.62
46:BY:127:LYS:HZ2	46:BY:165:VAL:HB	1.61	0.62
46:BY:19:ARG:N	46:BY:23:LYS:O	2.33	0.62
46:BY:4:ARG:NH2	46:BY:88:PHE:CE1	2.68	0.62
3:AD:56:C:H5''	26:BC:133:PRO:CB	2.30	0.62
24:BA:1587:A:H2'	24:BA:1588:C:C6	2.34	0.62
24:BA:274:G:H2'	24:BA:275:G:H5'	1.82	0.62
1:AA:490:G:H2'	1:AA:491:G:C8	2.34	0.62
1:AA:1061:G:C2	1:AA:1197:G:C2	2.88	0.62
1:AA:1363:A:H1'	1:AA:1365:G:C5	2.34	0.62
1:AA:1464:G:C2	1:AA:1465:C:N4	2.68	0.62
1:AA:169:C:H2'	1:AA:170:U:C5	2.35	0.62
1:AA:438:G:H21	1:AA:495:A:H8	1.46	0.62
1:AA:518:C:C2	1:AA:529:G:O6	2.53	0.62
1:AA:537:G:O3'	14:AO:113:ARG:NH1	2.31	0.62
1:AA:843:U:H3'	1:AA:848:C:C5'	2.29	0.62
1:AA:989:C:O2'	1:AA:990:C:H5'	2.00	0.62
3:AB:33:U:O2	3:AB:35:A:H5''	2.00	0.62
3:AC:27:G:C2	3:AC:28:G:C5	2.88	0.62
2:A1:8:U:O2'	4:AE:15:VAL:HA	2.00	0.62
4:AE:208:ILE:HG12	4:AE:211:ILE:HD12	1.82	0.62
8:AI:85:VAL:CG1	8:AI:88:VAL:HG13	2.28	0.62
9:AJ:143:ARG:HH11	9:AJ:144:MET:CB	2.06	0.62
9:AJ:142:GLU:O	9:AJ:145:ALA:O	2.17	0.62
9:AJ:35:LYS:HE2	9:AJ:38:LEU:HB2	1.82	0.62
10:AK:34:GLU:O	10:AK:38:ILE:HG12	1.99	0.62
12:AM:79:ARG:NH2	12:AM:82:ILE:HG21	2.15	0.62
14:AO:39:VAL:HB	14:AO:57:LYS:CB	2.26	0.62
14:AO:77:LEU:HD22	14:AO:81:SER:HB3	1.81	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AP:11:ARG:NH1	15:AP:11:ARG:HG3	2.12	0.62
16:AQ:10:ALA:C	16:AQ:12:ARG:H	2.02	0.62
18:AS:22:THR:HA	18:AS:33:ILE:HG13	1.81	0.62
18:AS:27:LYS:O	18:AS:29:ASP:N	2.33	0.62
1:AA:377:G:OP1	18:AS:5:ARG:HD3	2.00	0.62
18:AS:8:ARG:NH2	18:AS:11:SER:O	2.32	0.62
22:AW:44:ALA:HB3	22:AW:91:LEU:CD1	2.13	0.62
24:BA:649:G:O3'	54:B7:17:THR:HG21	2.00	0.62
24:BA:1049:C:N3	24:BA:1050:A:N6	2.48	0.62
24:BA:1135:C:H2'	24:BA:1136:G:C8	2.32	0.62
24:BA:996:A:C6	24:BA:1160:G:N1	2.67	0.62
24:BA:1265:A:O2'	24:BA:1266:G:H4'	2.00	0.62
24:BA:1662:C:C4	24:BA:1663:C:N4	2.68	0.62
24:BA:1775:U:OP2	24:BA:1776:G:OP2	2.18	0.62
24:BA:1784:A:HO2'	24:BA:1785:A:P	2.17	0.62
24:BA:1819:A:OP2	27:BD:157:ARG:CZ	2.47	0.62
24:BA:1937:A:N6	24:BA:1939:U:O4	2.25	0.62
24:BA:1900:A:C2	24:BA:1970:A:C6	2.87	0.62
24:BA:2083:G:N2	24:BA:2084:C:C2	2.68	0.62
24:BA:2331:G:H4'	47:BZ:43:THR:N	2.14	0.62
24:BA:2362:G:N2	24:BA:2363:C:H1'	2.14	0.62
24:BA:2394:C:O2	24:BA:2394:C:H2'	1.99	0.62
24:BA:244:A:C5	24:BA:245:G:H1'	2.35	0.62
24:BA:2714:G:C6	24:BA:2715:C:C4	2.88	0.62
24:BA:2747:G:C5	24:BA:2756:U:O4	2.53	0.62
24:BA:2734:A:H61	24:BA:2770:G:H1'	1.64	0.62
24:BA:2850:A:H2	38:BQ:61:HIS:CE1	2.18	0.62
24:BA:2880:C:C2	24:BA:2881:C:C5	2.87	0.62
24:BA:531:C:C6	24:BA:532:A:C2	2.88	0.62
24:BA:885:C:H42	24:BA:889:C:H1'	1.64	0.62
24:BA:917:A:H3'	24:BA:918:A:C5'	2.30	0.62
24:BA:954:G:OP1	37:BP:17:LEU:HB3	2.00	0.62
24:BA:997:G:O2'	24:BA:998:C:C5'	2.48	0.62
25:BB:104:A:N6	25:BB:105:G:H21	1.98	0.62
25:BB:75:G:N3	25:BB:75:G:H2'	2.15	0.62
25:BB:82:G:H2'	25:BB:83:G:C8	2.32	0.62
27:BD:125:ILE:CG2	27:BD:137:PRO:HG3	2.22	0.62
27:BD:9:TYR:OH	27:BD:198:ASN:ND2	2.32	0.62
28:BE:116:VAL:O	28:BE:120:TRP:NE1	2.33	0.62
28:BE:36:ARG:CG	28:BE:79:ARG:HH11	1.97	0.62
28:BE:85:ASN:C	28:BE:87:GLU:H	2.03	0.62
29:BF:99:TYR:O	29:BF:101:LEU:N	2.33	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:104:LYS:CG	29:BF:108:LYS:HZ1	2.04	0.62
29:BF:121:GLY:CA	29:BF:191:ARG:HE	2.11	0.62
29:BF:66:PRO:C	29:BF:68:LYS:N	2.38	0.62
29:BF:74:ARG:O	29:BF:75:HIS:HB2	1.98	0.62
29:BF:95:ARG:NE	29:BF:96:ASP:H	1.97	0.62
30:BG:2:PRO:HA	30:BG:5:VAL:CG2	2.30	0.62
33:BL:121:GLU:HB3	33:BL:125:ARG:NH1	2.15	0.62
34:BM:107:LEU:HD13	34:BM:117:PHE:CE2	2.35	0.62
24:BA:2641:G:H5'	34:BM:75:TYR:CG	2.35	0.62
24:BA:873:G:H5'	37:BP:66:ILE:HD11	1.82	0.62
38:BQ:83:ILE:CA	38:BQ:86:ARG:HG3	2.21	0.62
39:BR:7:TYR:HB3	39:BR:11:LYS:HZ2	1.63	0.62
39:BR:3:ARG:HH11	39:BR:3:ARG:HG3	1.64	0.62
39:BR:49:VAL:HB	39:BR:80:LEU:CD1	2.30	0.62
40:BS:53:ARG:NH2	40:BS:102:ILE:HG12	2.14	0.62
41:BT:65:ILE:CD1	41:BT:65:ILE:H	2.12	0.62
24:BA:30:G:OP1	41:BT:8:VAL:HG12	2.00	0.62
41:BT:98:LEU:HB3	41:BT:105:VAL:HG13	1.80	0.62
42:BU:18:LEU:HD23	42:BU:18:LEU:N	2.12	0.62
43:BV:13:SER:O	43:BV:17:VAL:CG1	2.47	0.62
43:BV:21:VAL:HG22	43:BV:25:ARG:HG3	1.80	0.62
45:BX:14:LEU:HB2	45:BX:20:TYR:N	2.13	0.62
45:BX:72:VAL:C	45:BX:73:ARG:HG3	2.20	0.62
45:BX:84:ARG:O	45:BX:84:ARG:HD2	2.00	0.62
46:BY:180:VAL:HG12	46:BY:180:VAL:O	1.99	0.62
47:BZ:50:ASN:HB3	47:BZ:63:VAL:HG13	1.82	0.62
47:BZ:68:GLU:HB3	47:BZ:80:HIS:C	2.19	0.62
32:BK:138:ILE:HG13	32:BK:140:LEU:CD1	2.29	0.62
32:BK:94:ALA:O	32:BK:97:ILE:HB	1.98	0.62
3:AD:48:C:HO2'	3:AD:49:C:P	2.23	0.62
24:BA:2124:G:H21	26:BC:217:THR:C	2.03	0.62
24:BA:2178:C:OP1	26:BC:46:LYS:HG2	2.00	0.62
24:BA:2103:C:C2	24:BA:2104:G:N7	2.68	0.62
24:BA:1416:G:N2	24:BA:1417:C:N4	2.48	0.62
43:BV:95:ILE:H	43:BV:95:ILE:CD1	2.06	0.62
24:BA:439:G:H2'	24:BA:440:G:H8	1.64	0.62
10:AK:53:VAL:HG12	10:AK:54:ASP:OD1	2.00	0.62
2:A1:32:U:O2'	2:A1:33:U:H5'	2.00	0.61
1:AA:1189:C:C2'	1:AA:1190:G:H5'	2.29	0.61
1:AA:1306:A:H61	1:AA:1331:G:H1'	1.65	0.61
1:AA:1441:G:C2'	1:AA:1460:A:H61	2.13	0.61
1:AA:594:G:N7	1:AA:595:G:C2	2.68	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:672:U:O2	1:AA:672:U:H2'	1.97	0.61
1:AA:738:C:H2'	1:AA:739:C:C6	2.33	0.61
1:AA:917:G:HO2'	1:AA:918:A:H5'	1.65	0.61
4:AE:208:ILE:HA	4:AE:211:ILE:CG1	2.29	0.61
4:AE:212:GLN:OE1	4:AE:212:GLN:HA	1.92	0.61
5:AF:35:GLU:HA	5:AF:38:ARG:HG2	1.83	0.61
6:AG:54:TYR:O	6:AG:55:ALA:C	2.39	0.61
10:AK:9:MET:CE	10:AK:13:ILE:HD11	2.30	0.61
12:AM:47:PHE:CE1	12:AM:64:GLU:HA	2.34	0.61
13:AN:100:ALA:C	13:AN:102:GLY:H	2.02	0.61
13:AN:73:MET:CE	13:AN:103:LEU:HD22	2.29	0.61
14:AO:47:LYS:N	14:AO:48:PRO:CD	2.63	0.61
16:AQ:27:CYS:SG	16:AQ:43:CYS:N	2.63	0.61
19:AT:104:LYS:HD3	19:AT:105:ALA:CB	2.29	0.61
50:B3:65:ASP:N	50:B3:68:ARG:NH2	2.48	0.61
50:B3:6:HIS:HB2	50:B3:7:PRO:HD3	1.81	0.61
52:B5:22:ALA:CB	52:B5:39:TYR:CE2	2.83	0.61
54:B7:60:LEU:HD23	54:B7:60:LEU:C	2.20	0.61
24:BA:1278:A:OP1	38:BQ:36:THR:HG22	1.99	0.61
24:BA:1309:G:C2	24:BA:1310:G:C8	2.87	0.61
24:BA:1434:A:C2	24:BA:1435:G:N9	2.68	0.61
24:BA:1612:C:O3'	53:B6:5:TRP:HD1	1.82	0.61
24:BA:1613:G:H2'	24:BA:1617:C:H42	1.63	0.61
24:BA:1650:G:O2'	24:BA:1651:G:P	2.58	0.61
24:BA:1725:G:N3	24:BA:1725:G:H2'	2.15	0.61
24:BA:1726:G:C6	24:BA:1727:U:O4	2.53	0.61
24:BA:1742:C:C4	24:BA:1743:G:C8	2.88	0.61
24:BA:1797:C:HO2'	27:BD:257:LEU:HD12	1.65	0.61
24:BA:1943:U:O2'	24:BA:1944:U:OP2	2.16	0.61
24:BA:2263:C:O2'	24:BA:2264:C:H5'	2.00	0.61
24:BA:2308:G:N3	24:BA:2308:G:H2'	2.15	0.61
24:BA:2484:G:H1'	37:BP:124:LYS:HZ3	1.64	0.61
24:BA:2597:G:H5'	27:BD:242:ARG:CG	2.29	0.61
24:BA:2730:C:O2'	24:BA:2731:G:H5'	1.99	0.61
24:BA:2787:C:H1'	28:BE:61:ARG:NH2	2.15	0.61
24:BA:534:U:HO2'	41:BT:49:HIS:CD2	2.17	0.61
24:BA:535:C:C2'	24:BA:536:A:H5'	2.29	0.61
24:BA:574:C:H4'	24:BA:575:A:O5'	1.98	0.61
24:BA:728:G:O2'	24:BA:729:G:H8	1.76	0.61
24:BA:876:C:N3	24:BA:901:A:N6	2.47	0.61
24:BA:974(A):C:O2	24:BA:989:G:C2	2.53	0.61
27:BD:176:ARG:N	27:BD:182:LEU:HD23	2.15	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:242:ARG:O	27:BD:243:GLY:C	2.38	0.61
27:BD:8:PRO:CD	27:BD:26:LYS:H	2.12	0.61
27:BD:82:ILE:HG22	27:BD:83:GLU:N	2.15	0.61
27:BD:84:TYR:CD1	27:BD:91:ARG:HG3	2.35	0.61
24:BA:2787:C:H1'	28:BE:61:ARG:CD	2.30	0.61
28:BE:53:PRO:CG	28:BE:75:VAL:HG13	2.29	0.61
28:BE:49:LEU:HD13	28:BE:76:ARG:HG3	1.82	0.61
28:BE:8:LYS:HZ2	40:BS:3:ARG:HG2	1.65	0.61
30:BG:157:ILE:HG12	30:BG:158:ALA:N	2.15	0.61
34:BM:93:THR:C	34:BM:94:HIS:HD2	2.03	0.61
35:BN:106:LEU:HD12	35:BN:106:LEU:C	2.19	0.61
35:BN:24:VAL:HG22	35:BN:30:ALA:CA	2.30	0.61
36:BO:78:PRO:HG2	36:BO:117:GLU:OE1	2.00	0.61
37:BP:45:GLN:O	37:BP:46:GLN:C	2.38	0.61
38:BQ:13:HIS:CE1	38:BQ:15:SER:H	2.18	0.61
38:BQ:51:LEU:HG	38:BQ:66:VAL:CG1	2.30	0.61
40:BS:27:THR:HG22	40:BS:28:VAL:N	2.15	0.61
40:BS:76:PHE:CE2	40:BS:78:LEU:HB2	2.35	0.61
41:BT:85:LYS:NZ	41:BT:117:GLN:O	2.22	0.61
41:BT:76:TYR:O	41:BT:80:ILE:HB	2.00	0.61
42:BU:3:ALA:O	42:BU:12:TYR:CE2	2.53	0.61
41:BT:88:ILE:HG12	42:BU:52:VAL:HG22	1.80	0.61
42:BU:52:VAL:O	42:BU:55:ALA:HB3	2.00	0.61
43:BV:24:ILE:HG23	43:BV:35:ILE:HG23	1.82	0.61
43:BV:39:THR:OG1	51:B4:28:PRO:CG	2.45	0.61
24:BA:2009:G:H5''	43:BV:41:LYS:HG2	1.81	0.61
44:BW:33:LYS:NZ	44:BW:33:LYS:HB2	2.14	0.61
46:BY:19:ARG:NH2	46:BY:84:GLU:O	2.33	0.61
26:BC:122:ALA:CA	26:BC:126:LYS:HD3	2.30	0.61
26:BC:190:ARG:O	26:BC:193:ILE:N	2.33	0.61
26:BC:77:ILE:HB	26:BC:115:ALA:HB2	1.82	0.61
24:BA:182:A:OP2	24:BA:182:A:C8	2.53	0.61
2:A1:52:U:H5''	6:AG:50:ARG:HB2	1.81	0.61
1:AA:1005:A:H4'	1:AA:1037:C:O2	1.99	0.61
1:AA:1305:G:N3	1:AA:1331:G:N2	2.48	0.61
1:AA:151:A:N7	1:AA:152:A:C2	2.69	0.61
1:AA:274:A:O2'	1:AA:275:G:H1'	2.00	0.61
1:AA:292:G:N7	1:AA:293:G:H1'	2.15	0.61
1:AA:323:U:H3'	1:AA:323:U:H6	1.65	0.61
1:AA:389:A:C6	1:AA:390:C:C1'	2.83	0.61
1:AA:730:G:H2'	1:AA:731:G:H5'	1.81	0.61
1:AA:791:G:N1	1:AA:1498:U:OP1	2.33	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:572:A:C4'	1:AA:917:G:H5'	2.25	0.61
1:AA:990:C:H2'	1:AA:991:U:C1'	2.30	0.61
4:AE:189:ASP:OD1	4:AE:205:ASP:N	2.33	0.61
4:AE:29:ALA:O	4:AE:32:ILE:HB	1.99	0.61
4:AE:64:ARG:HG2	4:AE:66:GLY:H	1.65	0.61
5:AF:142:MET:HG2	5:AF:170:GLN:HG3	1.80	0.61
5:AF:24:ALA:HB1	5:AF:28:GLN:HE22	1.63	0.61
5:AF:67:THR:HA	5:AF:102:ASN:O	2.00	0.61
5:AF:64:VAL:O	5:AF:99:VAL:HG11	1.99	0.61
6:AG:146:ILE:HD12	6:AG:146:ILE:O	1.99	0.61
7:AH:79:GLU:CB	7:AH:92:LYS:HA	2.22	0.61
8:AI:36:ARG:O	8:AI:66:GLU:HG2	1.99	0.61
10:AK:12:ARG:HH11	10:AK:27:PRO:CD	2.05	0.61
10:AK:20:TYR:HE1	10:AK:78:GLN:HE22	1.46	0.61
12:AM:4:ILE:HG12	12:AM:99:LYS:O	2.00	0.61
13:AN:104:GLN:NE2	13:AN:106:LYS:HB2	2.15	0.61
13:AN:34:ASP:OD1	13:AN:37:GLY:N	2.31	0.61
14:AO:33:ARG:HG2	14:AO:60:LEU:HD23	1.83	0.61
15:AP:10:PRO:CG	15:AP:18:ALA:CB	2.77	0.61
15:AP:46:LYS:HG3	15:AP:47:ASP:OD1	2.00	0.61
15:AP:48:LEU:HD23	15:AP:49:THR:N	2.15	0.61
20:AU:80:PRO:HB2	20:AU:82:THR:O	2.00	0.61
22:AW:53:LEU:O	22:AW:56:MET:N	2.34	0.61
22:AW:73:HIS:H	22:AW:76:ALA:HB2	1.65	0.61
22:AW:87:LYS:O	22:AW:88:VAL:C	2.36	0.61
49:B2:26:LEU:HG	49:B2:35:ARG:HH11	1.64	0.61
50:B3:20:ASN:HB2	50:B3:30:GLU:CB	2.30	0.61
52:B5:30:THR:CB	52:B5:31:PRO:CD	2.77	0.61
54:B7:5:LYS:HE3	54:B7:10:ALA:CB	2.30	0.61
54:B7:39:LYS:HB3	54:B7:39:LYS:NZ	2.15	0.61
54:B7:54:GLU:C	54:B7:56:GLU:OE2	2.39	0.61
54:B7:58:ILE:HG22	54:B7:61:LEU:HD12	1.80	0.61
24:BA:594:U:OP1	54:B7:61:LEU:HD13	2.01	0.61
54:B7:4:MET:HE2	54:B7:62:LEU:HG	1.81	0.61
55:B8:32:HIS:O	55:B8:34:GLN:HG3	2.01	0.61
24:BA:1142:U:H6	24:BA:1142(A):A:H8	1.38	0.61
24:BA:1189:A:H5''	24:BA:1190:G:OP2	2.00	0.61
24:BA:1203:G:C2	24:BA:1241:A:H8	2.18	0.61
24:BA:1204:A:P	24:BA:1204:A:O4'	2.58	0.61
24:BA:1446:C:H2'	24:BA:1447:G:C8	2.31	0.61
24:BA:1661:G:H2'	24:BA:1662:C:C6	2.34	0.61
24:BA:1935:G:H1'	24:BA:1964:G:N2	2.15	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2093:G:H4'	32:BK:25:TYR:CA	2.21	0.61
24:BA:221:A:C5	24:BA:266:G:N7	2.68	0.61
24:BA:2273:A:N7	24:BA:2274:A:C4	2.68	0.61
24:BA:2436:G:H2'	24:BA:2437:U:H6	1.64	0.61
24:BA:2584:U:H3'	24:BA:2584:U:C6	2.34	0.61
24:BA:2583:G:N3	24:BA:2584:U:O2	2.32	0.61
24:BA:2790:A:O4'	24:BA:2893:G:N2	2.32	0.61
24:BA:2876:G:C5'	40:BS:1:MET:H2	2.13	0.61
24:BA:522:G:O2'	24:BA:523:C:H5'	1.99	0.61
24:BA:551:G:H5'	24:BA:552:G:OP2	2.00	0.61
24:BA:672:C:OP2	36:BO:38:GLN:CG	2.47	0.61
24:BA:684:G:C2'	24:BA:687:C:N4	2.55	0.61
24:BA:81:G:O2'	24:BA:294:A:H2'	2.01	0.61
24:BA:1798:U:H5'	27:BD:257:LEU:CB	2.30	0.61
28:BE:104:VAL:CG1	28:BE:198:VAL:HG22	2.30	0.61
29:BF:132:VAL:H	29:BF:138:GLU:CD	2.03	0.61
29:BF:184:TYR:O	29:BF:185:ASP:C	2.39	0.61
30:BG:59:GLU:CD	30:BG:152:LEU:HD13	2.20	0.61
31:BH:103:LEU:HB3	31:BH:105:LEU:HD11	1.82	0.61
31:BH:31:GLY:O	31:BH:79:VAL:HG12	2.00	0.61
31:BH:85:LYS:HD2	31:BH:145:ALA:HB1	1.81	0.61
34:BM:33:LEU:O	34:BM:35:ARG:HG3	2.00	0.61
34:BM:54:VAL:HG12	34:BM:122:VAL:CG1	2.30	0.61
36:BO:90:ARG:HA	36:BO:125:VAL:HG13	1.81	0.61
36:BO:28:GLY:C	36:BO:29:LYS:HG3	2.19	0.61
36:BO:81:GLN:CB	36:BO:86:LYS:HG3	2.30	0.61
24:BA:2495:G:C5'	37:BP:82:ARG:HA	2.31	0.61
40:BS:110:ILE:HD12	40:BS:113:LYS:HE3	1.82	0.61
41:BT:60:LEU:HB2	41:BT:61:TRP:HD1	1.64	0.61
41:BT:89:GLU:OE1	42:BU:50:PRO:CB	2.47	0.61
43:BV:91:GLY:O	43:BV:92:ARG:O	2.17	0.61
45:BX:1:MET:HG2	45:BX:33:LYS:HD2	1.81	0.61
46:BY:56:VAL:HG13	46:BY:133:ILE:HD11	1.82	0.61
46:BY:71:VAL:CG1	46:BY:74:VAL:HG23	2.30	0.61
47:BZ:51:VAL:HG21	47:BZ:79:VAL:C	2.20	0.61
47:BZ:67:VAL:O	47:BZ:67:VAL:HG12	2.00	0.61
32:BK:123:LEU:CD1	32:BK:145:VAL:HA	2.24	0.61
26:BC:10:LEU:HG	26:BC:220:PRO:HG3	1.80	0.61
48:B1:11:LEU:N	48:B1:11:LEU:HD12	2.15	0.61
24:BA:1508:A:N3	24:BA:1508:A:OP2	2.32	0.61
1:AA:1166:G:H2'	1:AA:1169:A:OP2	2.00	0.61
1:AA:1054:C:OP2	1:AA:1197:G:P	2.59	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1321:C:H2'	1:AA:1322:C:C6	2.34	0.61
1:AA:1466:C:H2'	1:AA:1467:G:C8	2.36	0.61
1:AA:54:C:H41	1:AA:352:C:H2'	1.65	0.61
1:AA:375:U:H4'	18:AS:17:TYR:HE2	1.62	0.61
1:AA:407:G:N2	1:AA:436:C:H1'	2.15	0.61
1:AA:51:A:O2'	1:AA:52:G:P	2.58	0.61
1:AA:817:C:HO2'	1:AA:818:G:H5''	1.64	0.61
3:AB:21:A:N6	3:AB:46:G:H2'	2.15	0.61
4:AE:211:ILE:HG22	4:AE:212:GLN:N	2.14	0.61
4:AE:214:ILE:O	4:AE:217:ARG:HB2	1.99	0.61
5:AF:48:TYR:CA	5:AF:52:LEU:HD22	2.30	0.61
6:AG:144:ASP:O	6:AG:184:LYS:HD3	2.00	0.61
7:AH:96:PRO:HD2	7:AH:98:THR:OG1	1.99	0.61
9:AJ:115:ARG:O	9:AJ:118:VAL:HB	2.00	0.61
9:AJ:50:ILE:HG21	9:AJ:58:PRO:CA	2.30	0.61
10:AK:100:ILE:CD1	10:AK:125:ARG:HE	2.13	0.61
10:AK:126:LYS:HZ1	10:AK:127:LEU:HB2	1.65	0.61
1:AA:826:C:H5'	10:AK:12:ARG:NH2	2.15	0.61
4:AE:181:PHE:HE1	10:AK:70:GLN:HE22	1.49	0.61
12:AM:40:LEU:HB2	12:AM:69:ASN:HB2	1.82	0.61
13:AN:58:PRO:CB	13:AN:93:GLN:HB2	2.19	0.61
15:AP:98:VAL:O	15:AP:98:VAL:HG12	2.00	0.61
16:AQ:13:THR:O	16:AQ:14:PRO:C	2.37	0.61
19:AT:27:PHE:O	19:AT:35:VAL:HG13	2.00	0.61
20:AU:46:GLU:HB3	20:AU:85:LEU:CD1	2.24	0.61
21:AV:15:LEU:CD2	21:AV:38:SER:HB2	2.29	0.61
1:AA:986:A:H4'	21:AV:55:LYS:CG	2.29	0.61
50:B3:59:PHE:O	50:B3:60:GLN:C	2.38	0.61
52:B5:49:HIS:O	52:B5:50:ARG:CB	2.47	0.61
52:B5:50:ARG:O	52:B5:51:GLU:CB	2.47	0.61
24:BA:1023:U:H2'	24:BA:1024:G:H5'	1.80	0.61
24:BA:1089:G:H8	24:BA:1089:G:O5'	1.83	0.61
24:BA:443:A:O4'	24:BA:1201:C:C4'	2.48	0.61
24:BA:1315:C:HO2'	24:BA:1392:A:H1'	1.64	0.61
24:BA:1451:C:H2'	24:BA:1457:A:H61	1.64	0.61
24:BA:1758:G:O2'	24:BA:1759:A:OP1	2.11	0.61
24:BA:1788:C:N3	24:BA:1789:A:C8	2.69	0.61
24:BA:1808:U:C4	24:BA:1810:A:N1	2.68	0.61
24:BA:1992:G:C5	24:BA:1997:G:C4	2.88	0.61
24:BA:2004:G:C8	24:BA:2005:A:N7	2.69	0.61
24:BA:2199:A:C5	24:BA:2225:A:N1	2.67	0.61
24:BA:2519:U:O2	24:BA:2522:U:O4	2.18	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2580:U:OP2	24:BA:2580:U:C6	2.54	0.61
24:BA:1939:U:C2'	24:BA:2592:G:HO2'	2.13	0.61
24:BA:2682:U:N3	28:BE:21:VAL:HG11	2.16	0.61
24:BA:2709:G:C2'	24:BA:2710:C:H5'	2.30	0.61
24:BA:279:C:H2'	24:BA:280:C:C6	2.36	0.61
24:BA:2805:G:C5	24:BA:2807:G:H8	2.18	0.61
24:BA:482:A:N7	24:BA:506:G:C2	2.68	0.61
24:BA:582:G:N1	24:BA:1259:G:C6	2.69	0.61
24:BA:648:G:C4	24:BA:649:G:N7	2.69	0.61
24:BA:723:G:O2'	24:BA:724:U:C5'	2.47	0.61
24:BA:880:G:C2	24:BA:881:G:H1'	2.35	0.61
24:BA:996:A:C2	24:BA:997:G:C5	2.88	0.61
25:BB:13:A:H2'	25:BB:13:A:N3	2.15	0.61
25:BB:32:C:C2	25:BB:33:G:N7	2.67	0.61
27:BD:151:LYS:HB2	27:BD:154:LYS:HE3	1.81	0.61
27:BD:181:GLU:HB3	27:BD:268:ARG:NE	2.12	0.61
27:BD:261:LYS:C	27:BD:263:ARG:N	2.46	0.61
27:BD:7:LYS:HA	27:BD:26:LYS:O	1.99	0.61
28:BE:106:GLY:HA3	28:BE:196:VAL:HG22	1.82	0.61
28:BE:182:LEU:HD23	28:BE:183:LEU:N	2.14	0.61
28:BE:105:THR:O	28:BE:197:ILE:HD12	2.00	0.61
24:BA:2636:U:O4'	28:BE:79:ARG:HD3	2.00	0.61
29:BF:34:TRP:HD1	29:BF:38:ARG:NH1	1.98	0.61
30:BG:35:GLU:O	30:BG:36:LYS:O	2.18	0.61
30:BG:8:LYS:HE2	30:BG:100:TRP:HD1	1.65	0.61
31:BH:45:VAL:HG13	31:BH:50:VAL:HG13	1.82	0.61
31:BH:68:THR:HG22	31:BH:72:ILE:CD1	2.30	0.61
32:BK:31:LEU:HD13	32:BK:36:ALA:O	2.00	0.61
34:BM:89:LYS:O	34:BM:90:MET:C	2.38	0.61
36:BO:46:LYS:HB2	36:BO:49:ARG:CB	2.20	0.61
37:BP:119:ARG:O	37:BP:123:HIS:CB	2.48	0.61
37:BP:43:THR:HG23	37:BP:46:GLN:HB3	1.83	0.61
38:BQ:44:LEU:CD1	38:BQ:48:VAL:CG2	2.78	0.61
25:BB:114:G:H1'	39:BR:38:GLN:HE22	1.63	0.61
40:BS:103:ARG:HB3	40:BS:107:ASP:OD1	2.00	0.61
42:BU:68:LYS:HZ3	42:BU:95:LEU:HD11	1.65	0.61
43:BV:20:VAL:HG13	43:BV:21:VAL:H	1.63	0.61
43:BV:47:VAL:C	43:BV:51:LEU:HD13	2.21	0.61
24:BA:1313:U:O4	44:BW:62:LYS:HB2	2.01	0.61
45:BX:74:PRO:C	45:BX:76:CYS:N	2.54	0.61
46:BY:102:LEU:HD11	46:BY:137:ILE:HG22	1.82	0.61
25:BB:75:G:C2	46:BY:27:VAL:HG21	2.35	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:49:ARG:C	46:BY:51:ALA:N	2.52	0.61
46:BY:95:PRO:HB2	46:BY:130:PRO:HA	1.83	0.61
46:BY:91:LEU:HD12	46:BY:95:PRO:HG3	1.81	0.61
47:BZ:13:GLY:C	47:BZ:14:ARG:HD3	2.20	0.61
47:BZ:19:LYS:O	47:BZ:20:ARG:NH1	2.33	0.61
47:BZ:37:LEU:CG	47:BZ:59:LEU:O	2.47	0.61
47:BZ:50:ASN:HB3	47:BZ:63:VAL:HG22	1.82	0.61
3:AD:20:U:H5	24:BA:2112:G:H1'	1.64	0.61
24:BA:80:G:H1'	24:BA:347:A:N6	2.14	0.61
34:BM:140:VAL:OXT	34:BM:140:VAL:HG12	2.00	0.61
48:B1:65:GLN:HE21	48:B1:65:GLN:CA	2.11	0.61
1:AA:1137:C:H4'	1:AA:1138:G:N1	2.15	0.61
1:AA:1295:G:H21	1:AA:1302:U:H3	1.47	0.61
1:AA:1429:C:H2'	1:AA:1430:C:C6	2.35	0.61
1:AA:191(C):G:O5'	1:AA:191(C):G:H8	1.84	0.61
1:AA:191(D):U:H2'	1:AA:191(E):G:C8	2.35	0.61
1:AA:265:G:C2'	1:AA:266:G:H5'	2.29	0.61
1:AA:522:C:H41	1:AA:523:A:N6	1.94	0.61
1:AA:702:A:HO2'	1:AA:703:G:P	2.23	0.61
1:AA:730:G:H2'	1:AA:731:G:C5'	2.30	0.61
1:AA:914:A:O2'	1:AA:915:A:O5'	2.17	0.61
4:AE:18:GLY:CA	4:AE:41:ILE:HG23	2.31	0.61
6:AG:36:ARG:HB3	6:AG:38:TYR:CE2	2.35	0.61
2:A1:52:U:C4'	6:AG:50:ARG:HA	2.28	0.61
7:AH:141:GLN:O	7:AH:142:LEU:HG	2.00	0.61
7:AH:79:GLU:CG	7:AH:93:PRO:HD2	2.30	0.61
10:AK:28:ALA:O	10:AK:29:SER:CB	2.48	0.61
11:AL:26:VAL:HA	11:AL:61:ALA:O	2.01	0.61
13:AN:114:VAL:HG22	13:AN:115:PRO:N	2.14	0.61
14:AO:22:SER:C	14:AO:24:VAL:H	2.04	0.61
1:AA:280:C:N3	19:AT:39:SER:HB2	2.14	0.61
19:AT:9:VAL:HB	19:AT:84:LEU:HD13	1.81	0.61
21:AV:40:ILE:HD12	21:AV:74:PHE:CE2	2.36	0.61
48:B1:20:VAL:HA	48:B1:55:LEU:CD2	2.29	0.61
52:B5:20:ASN:ND2	52:B5:43:CYS:CB	2.63	0.61
52:B5:41:PRO:CG	52:B5:43:CYS:HB2	2.30	0.61
24:BA:1024:G:H3'	24:BA:1025:G:H5''	1.83	0.61
24:BA:1023:U:OP2	24:BA:1025:G:N1	2.33	0.61
24:BA:1061:U:H4'	24:BA:1070:A:H1'	1.82	0.61
24:BA:161:U:N3	24:BA:171:G:N2	2.48	0.61
24:BA:1703:G:N2	24:BA:1704:G:C4	2.67	0.61
24:BA:1853:A:N1	24:BA:2087:G:H1'	2.15	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1992:G:H1'	24:BA:1993:U:C4	2.34	0.61
24:BA:860:U:H5	24:BA:2267:A:H4'	1.65	0.61
24:BA:2330:G:H2'	24:BA:2331:G:O4'	2.00	0.61
24:BA:270(B):A:H1'	24:BA:270(C):C:H5	1.62	0.61
24:BA:324:A:N1	24:BA:325:G:N3	2.49	0.61
24:BA:402:A:H2'	24:BA:402:A:N3	2.15	0.61
24:BA:624:C:OP2	36:BO:105:LEU:CD2	2.48	0.61
24:BA:603:A:N6	24:BA:625:G:N7	2.48	0.61
24:BA:995:C:H1'	41:BT:57:PHE:CZ	2.35	0.61
25:BB:14:U:OP2	25:BB:70:C:O2'	2.16	0.61
27:BD:209:ALA:O	27:BD:213:ARG:HG2	2.01	0.61
28:BE:196:VAL:CG1	28:BE:197:ILE:H	2.13	0.61
28:BE:47:VAL:HG22	28:BE:79:ARG:CB	2.29	0.61
28:BE:92:THR:O	28:BE:94:GLU:N	2.32	0.61
24:BA:801:G:OP1	29:BF:57:VAL:N	2.33	0.61
30:BG:125:PHE:HD2	30:BG:129:GLY:N	1.98	0.61
24:BA:2306:C:H4'	30:BG:153:ARG:HH21	1.66	0.61
30:BG:68:PRO:CG	30:BG:72:ARG:HH12	2.12	0.61
31:BH:133:VAL:HG22	31:BH:134:SER:N	2.15	0.61
31:BH:5:GLY:O	31:BH:6:ARG:HB2	2.00	0.61
31:BH:98:LEU:O	31:BH:98:LEU:HD23	2.00	0.61
32:BK:9:LEU:HA	32:BK:17:GLN:NE2	2.15	0.61
33:BL:32:ALA:HB1	33:BL:37:PHE:HD1	1.66	0.61
33:BL:79:ARG:NH1	33:BL:87:GLY:HA2	2.15	0.61
34:BM:100:GLU:HA	34:BM:103:VAL:HG13	1.81	0.61
34:BM:17:ASP:O	34:BM:18:ALA:HB3	2.00	0.61
34:BM:93:THR:HG22	34:BM:94:HIS:HD2	1.63	0.61
35:BN:24:VAL:HA	35:BN:39:ILE:HG21	1.81	0.61
35:BN:60:ALA:C	35:BN:83:ALA:HB1	2.20	0.61
35:BN:96:THR:HA	35:BN:117:LEU:CD1	2.17	0.61
36:BO:96:THR:O	36:BO:102:ARG:HD3	2.00	0.61
36:BO:23:PRO:CG	36:BO:29:LYS:N	2.63	0.61
38:BQ:36:THR:HB	38:BQ:40:LYS:HD2	1.80	0.61
38:BQ:97:VAL:HG22	38:BQ:114:VAL:CG1	2.31	0.61
40:BS:27:THR:O	40:BS:52:ILE:HD12	2.00	0.61
41:BT:84:LYS:O	41:BT:85:LYS:C	2.38	0.61
41:BT:95:LEU:HD23	41:BT:95:LEU:N	2.13	0.61
1:AA:1011:G:N2	1:AA:1019:C:H1'	2.15	0.61
24:BA:489:G:H2'	24:BA:491:G:O4'	2.00	0.61
1:AA:1001:G:H5'	1:AA:1001:G:H8	1.65	0.61
1:AA:1026:G:C8	1:AA:1027:C:C6	2.89	0.61
1:AA:1058:G:O2'	1:AA:1059:C:H5'	1.98	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1148:U:O2	1:AA:1149:C:N1	2.33	0.61
1:AA:134:A:C6	1:AA:135:C:C4	2.88	0.61
1:AA:137:C:C2'	1:AA:138:G:O5'	2.48	0.61
1:AA:1513:A:H2'	1:AA:1514:C:H6	1.64	0.61
1:AA:449:C:H2'	1:AA:450:G:C4'	2.29	0.61
1:AA:574:A:H5''	1:AA:575:G:OP2	2.00	0.61
1:AA:5:U:C4	6:AG:86:LYS:HD3	2.35	0.61
1:AA:687:A:H2'	1:AA:701:C:H41	1.66	0.61
1:AA:812:C:O2	1:AA:813:U:H5	1.82	0.61
1:AA:866:C:C6	1:AA:867:G:H1'	2.35	0.61
1:AA:979:C:H42	16:AQ:18:VAL:CB	2.13	0.61
4:AE:21:ARG:O	4:AE:23:ARG:HD3	1.99	0.61
4:AE:97:TRP:CZ3	4:AE:176:GLU:HG3	2.35	0.61
5:AF:188:LEU:HD22	5:AF:189:ALA:H	1.64	0.61
5:AF:22:TRP:HB2	5:AF:59:ARG:HB3	1.83	0.61
6:AG:87:GLY:O	6:AG:89:THR:N	2.34	0.61
9:AJ:50:ILE:HD13	9:AJ:58:PRO:HA	1.81	0.61
9:AJ:95:ARG:O	9:AJ:96:GLN:C	2.39	0.61
10:AK:6:ILE:CG2	10:AK:7:ALA:H	1.91	0.61
10:AK:8:ASP:OD2	10:AK:12:ARG:HD2	2.00	0.61
11:AL:15:ALA:HB3	11:AL:76:ALA:CB	2.29	0.61
13:AN:14:VAL:O	13:AN:14:VAL:HG12	1.99	0.61
13:AN:95:ILE:HA	13:AN:98:LEU:HD12	1.82	0.61
15:AP:16:ASP:HA	15:AP:19:LEU:CD2	2.30	0.61
15:AP:66:LEU:CA	15:AP:70:LEU:HD12	2.25	0.61
17:AR:36:ILE:HA	17:AR:59:MET:HE1	1.83	0.61
17:AR:62:GLN:CA	17:AR:65:ARG:HH22	2.07	0.61
18:AS:31:LYS:HG2	18:AS:32:TYR:N	2.15	0.61
21:AV:32:LYS:HA	21:AV:50:ALA:CB	2.26	0.61
48:B1:12:SER:CB	48:B1:13:PRO:CD	2.78	0.61
48:B1:48:LEU:HD12	48:B1:51:GLN:HE22	1.64	0.61
49:B2:26:LEU:HB2	49:B2:28:LEU:CD2	2.28	0.61
50:B3:18:CYS:SG	50:B3:19:GLY:N	2.71	0.61
50:B3:31:ILE:O	50:B3:32:TYR:CB	2.48	0.61
50:B3:56:VAL:HB	50:B3:61:ARG:CD	2.31	0.61
50:B3:62:ARG:O	50:B3:65:ASP:OD1	2.17	0.61
54:B7:42:ARG:HB3	54:B7:43:GLN:NE2	2.16	0.61
24:BA:252:G:N7	54:B7:8:LYS:HE3	2.15	0.61
24:BA:85:G:H1'	24:BA:103:A:N1	2.16	0.61
24:BA:1047:G:H4'	24:BA:1047:G:OP1	2.00	0.61
24:BA:1069:A:C4'	24:BA:1070:A:H3'	2.31	0.61
24:BA:1087:G:N2	24:BA:1103:A:H2'	2.15	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1207:C:OP2	24:BA:1207:C:H6	1.84	0.61
24:BA:566:U:OP1	24:BA:1253:A:N1	2.34	0.61
24:BA:1263:U:H4'	51:B4:10:LYS:CD	2.30	0.61
24:BA:1347:G:N2	24:BA:1600:C:C2	2.69	0.61
24:BA:1459:G:O6	24:BA:1461:G:C6	2.53	0.61
24:BA:1422:G:O2'	24:BA:1493:C:O2	2.18	0.61
24:BA:1531:C:N3	24:BA:1532:C:N4	2.40	0.61
24:BA:1754:C:H5	40:BS:98:LYS:HD3	1.66	0.61
24:BA:1797:C:C4	24:BA:1798:U:O4	2.53	0.61
24:BA:1823:G:C2	24:BA:1824:G:C8	2.89	0.61
24:BA:1972:A:H2'	24:BA:1973:G:H8	1.66	0.61
24:BA:1995:U:H5'	24:BA:1996:C:H5'	1.82	0.61
24:BA:1661:G:N2	24:BA:2000:G:H1'	2.15	0.61
24:BA:2061:G:OP2	24:BA:2502:G:OP2	2.19	0.61
24:BA:2072:G:H2'	24:BA:2073:C:H6	1.61	0.61
24:BA:2284:C:OP1	52:B5:9:LEU:HB2	1.99	0.61
24:BA:2298:A:H3'	24:BA:2299:G:H8	1.65	0.61
24:BA:2352:A:C2	24:BA:2353:G:H1'	2.34	0.61
24:BA:2362:G:C2'	24:BA:2363:C:H5'	2.31	0.61
24:BA:2384:G:O2'	24:BA:2385:C:OP1	2.19	0.61
24:BA:2450:A:C2	24:BA:2451:A:C4	2.89	0.61
24:BA:2469:A:C2	24:BA:2482:G:C1'	2.83	0.61
24:BA:2482:G:C2	24:BA:2483:C:H1'	2.35	0.61
24:BA:2550:G:N2	24:BA:2559:C:C2	2.69	0.61
24:BA:2563:U:H4'	35:BN:28:SER:CB	2.29	0.61
24:BA:2567:G:H2'	24:BA:2568:C:C6	2.36	0.61
24:BA:2653:U:C2'	24:BA:2654:A:C8	2.83	0.61
24:BA:2657:A:H62	24:BA:2664:G:H21	1.47	0.61
24:BA:302:C:C2	24:BA:303:U:C5	2.88	0.61
24:BA:326:G:C4	24:BA:327:G:C8	2.88	0.61
24:BA:279:C:H41	24:BA:359:A:H1'	1.66	0.61
24:BA:673:C:H5''	29:BF:81:PRO:HG2	1.81	0.61
24:BA:860:U:H2'	24:BA:861:A:C5'	2.31	0.61
25:BB:99:A:C2	25:BB:100:G:C4	2.88	0.61
27:BD:176:ARG:CA	27:BD:182:LEU:HD23	2.30	0.61
24:BA:2596:U:C2'	27:BD:242:ARG:NH1	2.53	0.61
27:BD:29:PRO:HB2	27:BD:31:LYS:NZ	2.16	0.61
28:BE:49:LEU:CD2	28:BE:76:ARG:N	2.64	0.61
24:BA:601:C:C4'	29:BF:104:LYS:HZ3	2.13	0.61
29:BF:113:ALA:HB1	29:BF:187:VAL:CG1	2.30	0.61
29:BF:154:VAL:HB	29:BF:193:VAL:CG2	2.31	0.61
31:BH:101:ARG:CD	31:BH:117:PRO:HG3	2.30	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:BL:19:PRO:CG	33:BL:22:PRO:HG2	2.30	0.61
34:BM:33:LEU:HD13	34:BM:34:LEU:N	2.15	0.61
34:BM:37:LYS:HD2	34:BM:43:THR:N	2.14	0.61
34:BM:48:MET:C	34:BM:50:ASP:H	2.02	0.61
34:BM:48:MET:O	34:BM:119:ARG:NH1	2.31	0.61
34:BM:57:ALA:O	34:BM:58:ASP:O	2.18	0.61
36:BO:55:ARG:O	36:BO:56:SER:CB	2.46	0.61
24:BA:2484:G:N3	37:BP:124:LYS:CE	2.62	0.61
41:BT:65:ILE:HD12	41:BT:96:ALA:CB	2.21	0.61
42:BU:68:LYS:NZ	42:BU:95:LEU:HD11	2.15	0.61
44:BW:84:ALA:H	44:BW:85:PRO:HD2	1.65	0.61
45:BX:17:SER:OG	45:BX:18:GLY:N	2.26	0.61
45:BX:88:LYS:O	45:BX:91:GLU:HB2	1.99	0.61
46:BY:10:ARG:NH2	46:BY:36:LYS:H	1.98	0.61
46:BY:18:LEU:HD22	46:BY:23:LYS:CD	2.31	0.61
47:BZ:46:LYS:HE2	47:BZ:77:ARG:O	1.99	0.61
26:BC:193:ILE:HG22	26:BC:197:GLU:OE1	2.01	0.61
26:BC:200:LYS:O	26:BC:200:LYS:HG2	1.99	0.61
24:BA:1506:C:N3	24:BA:1507:A:H1'	2.15	0.61
2:A1:27:A:O2'	2:A1:28:G:H5'	2.01	0.61
1:AA:1124:G:N7	1:AA:1145:C:H2'	2.15	0.61
1:AA:1418:A:C3'	1:AA:1419:G:H5'	2.30	0.61
1:AA:1498:U:O2'	1:AA:1499:A:O5'	2.17	0.61
1:AA:17:U:O2'	1:AA:18:C:H5'	2.01	0.61
1:AA:38:G:N2	1:AA:397:A:C4	2.68	0.61
1:AA:414:A:C2'	1:AA:415:A:H8	2.13	0.61
1:AA:955:U:C2	1:AA:956:U:C5	2.87	0.61
1:AA:995:C:O2'	16:AQ:4:LYS:HE2	2.00	0.61
4:AE:69:LEU:CD2	4:AE:91:PRO:HB3	2.30	0.61
5:AF:67:THR:CA	5:AF:102:ASN:HB2	2.30	0.61
5:AF:10:PHE:O	5:AF:11:ARG:NH2	2.33	0.61
5:AF:47:LEU:HD12	5:AF:49:SER:HB3	1.82	0.61
1:AA:8:A:N6	6:AG:209:ARG:NH1	2.46	0.61
7:AH:127:ASN:O	7:AH:128:PRO:C	2.38	0.61
7:AH:12:LEU:HG	7:AH:129:ILE:CG1	2.30	0.61
7:AH:91:LEU:HD12	7:AH:118:ILE:CG2	2.31	0.61
9:AJ:22:LEU:HB3	9:AJ:62:PHE:HE2	1.65	0.61
9:AJ:50:ILE:HD12	9:AJ:58:PRO:HB3	1.82	0.61
11:AL:45:ALA:O	11:AL:78:LYS:HG3	2.01	0.61
15:AP:20:THR:HA	15:AP:25:ILE:CB	2.31	0.61
17:AR:70:LEU:HG	17:AR:78:TYR:CB	2.30	0.61
17:AR:71:GLN:HB2	17:AR:78:TYR:HE1	1.63	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AS:20:VAL:CG1	18:AS:32:TYR:HB2	2.30	0.61
22:AW:43:LEU:HD22	22:AW:48:LYS:CB	2.31	0.61
24:BA:988:A:H5''	49:B2:10:LYS:CE	2.31	0.61
49:B2:15:TYR:N	49:B2:15:TYR:HD1	1.98	0.61
49:B2:50:VAL:HG13	49:B2:53:LEU:HB2	1.82	0.61
50:B3:58:ARG:CB	50:B3:62:ARG:NH2	2.64	0.61
51:B4:46:CYS:HB2	51:B4:47:PRO:CD	2.29	0.61
52:B5:33:LYS:NZ	52:B5:34:LEU:HD23	2.15	0.61
53:B6:34:ARG:HH22	53:B6:42:LEU:CD2	2.13	0.61
24:BA:1071:G:H2'	24:BA:1072:C:H5''	1.81	0.61
24:BA:1096:A:H62	33:BL:30:HIS:HB2	1.65	0.61
24:BA:1174:A:N6	24:BA:1177:A:C6	2.59	0.61
24:BA:1171:G:H1	24:BA:1179:C:N4	1.98	0.61
24:BA:1226:G:H3'	24:BA:1226:G:C8	2.34	0.61
24:BA:1227:A:H8	24:BA:1227:A:H3'	1.65	0.61
24:BA:1229:G:H2'	24:BA:1230:C:O4'	1.99	0.61
24:BA:1363:C:H4'	24:BA:1809:A:N7	2.15	0.61
24:BA:1742:C:C2	24:BA:1743:G:O4'	2.53	0.61
24:BA:1364:G:P	24:BA:1809:A:C6	2.94	0.61
24:BA:1838:C:H2'	24:BA:1898:U:O4	1.99	0.61
24:BA:1853:A:H1'	24:BA:2234:G:H5'	1.82	0.61
24:BA:190:A:OP2	24:BA:205:G:N2	2.33	0.61
24:BA:1988:C:H2'	24:BA:1989:G:O5'	2.00	0.61
24:BA:1992:G:H22	24:BA:1995:U:H5	1.47	0.61
24:BA:2254:C:O2'	24:BA:2255:G:H5'	1.99	0.61
24:BA:2392:A:O2'	24:BA:2393:A:H5'	2.00	0.61
24:BA:2439:A:H4'	24:BA:2440:C:H5''	1.82	0.61
24:BA:2491:U:C5	24:BA:2492:U:OP2	2.54	0.61
24:BA:2507:C:C2	24:BA:2583:G:C2	2.89	0.61
24:BA:2570:G:N3	24:BA:2570:G:H2'	2.16	0.61
24:BA:2761:G:O2'	24:BA:2762:G:H5'	2.00	0.61
24:BA:373:U:H4'	24:BA:374:A:H8	1.64	0.61
24:BA:558:G:C2	24:BA:559:G:C5	2.89	0.61
24:BA:566:U:C5'	42:BU:82:ARG:NH2	2.64	0.61
24:BA:59:U:H3'	24:BA:60:G:H5''	1.83	0.61
24:BA:64:A:C2'	24:BA:65:C:C5'	2.79	0.61
24:BA:704:G:H22	24:BA:726:G:C1'	2.12	0.61
24:BA:729:G:C5'	27:BD:211:ARG:HH12	2.14	0.61
24:BA:76:C:C6	24:BA:76:C:O5'	2.53	0.61
24:BA:845:G:H5''	24:BA:846:C:OP1	2.00	0.61
25:BB:104:A:N6	25:BB:105:G:N2	2.48	0.61
25:BB:61:G:C2	25:BB:62:C:C4	2.89	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:99:A:C6	25:BB:100:G:C5	2.88	0.61
24:BA:1675:C:H5	28:BE:129:HIS:NE2	1.99	0.61
29:BF:41:LEU:HD12	29:BF:42:ALA:N	2.16	0.61
29:BF:49:ALA:HB3	29:BF:94:PRO:HA	1.83	0.61
29:BF:39:TRP:CE3	29:BF:99:TYR:HB3	2.36	0.61
31:BH:54:ARG:HH11	31:BH:57:ASP:HB2	1.65	0.61
33:BL:35:MET:HA	33:BL:38:VAL:CB	2.27	0.61
34:BM:123:TYR:C	34:BM:125:GLY:H	2.02	0.61
34:BM:86:PRO:HB2	34:BM:89:LYS:HZ2	1.60	0.61
35:BN:82:ASN:OD1	35:BN:82:ASN:N	2.34	0.61
36:BO:135:LEU:H	36:BO:135:LEU:HD12	1.65	0.61
37:BP:93:TYR:C	37:BP:94:VAL:CG1	2.69	0.61
40:BS:99:LEU:O	40:BS:100:TYR:O	2.19	0.61
41:BT:93:LYS:HB2	42:BU:10:LYS:CE	2.30	0.61
42:BU:39:LEU:O	42:BU:40:LEU:HD12	2.00	0.61
42:BU:45:THR:O	42:BU:46:VAL:HB	1.98	0.61
24:BA:566:U:C5'	42:BU:82:ARG:CZ	2.75	0.61
43:BV:73:ALA:O	43:BV:74:ALA:HB2	2.00	0.61
43:BV:76:VAL:CG2	43:BV:77:ASP:H	2.13	0.61
45:BX:46:LYS:HZ2	45:BX:46:LYS:HB3	1.64	0.61
46:BY:1:MET:HE1	46:BY:2:GLU:O	2.01	0.61
24:BA:2365:G:OP1	47:BZ:55:ARG:N	2.31	0.61
47:BZ:44:ARG:HE	47:BZ:77:ARG:CD	2.12	0.61
47:BZ:68:GLU:CD	47:BZ:82:ARG:HB2	2.21	0.61
32:BK:123:LEU:HD12	32:BK:124:GLY:H	1.63	0.61
32:BK:139:GLN:C	32:BK:140:LEU:HD12	2.20	0.61
3:AD:19:G:H5'	3:AD:20:U:C4	2.34	0.61
24:BA:2122:U:H2'	24:BA:2123:G:C5'	2.24	0.61
26:BC:161:ILE:O	26:BC:161:ILE:HG13	2.01	0.61
24:BA:440:G:H2'	24:BA:441:U:C6	2.36	0.61
50:B3:50:VAL:O	50:B3:51:ASP:CG	2.38	0.61
1:AA:1055:A:N6	1:AA:1206:G:C5	2.68	0.61
1:AA:1253:G:OP1	12:AM:44:VAL:HB	2.01	0.61
1:AA:1320:C:H3'	1:AA:1321:C:C6	2.35	0.61
1:AA:1373:G:OP1	11:AL:42:ARG:NH2	2.34	0.61
1:AA:186:C:H2'	1:AA:186(A):C:H6	1.66	0.61
1:AA:373:A:C2	1:AA:374:A:C8	2.89	0.61
1:AA:47:C:O2'	1:AA:48:C:OP2	2.19	0.61
1:AA:62:U:OP1	1:AA:386:C:H5'	2.00	0.61
1:AA:752:G:OP2	1:AA:752:G:O4'	2.18	0.61
1:AA:866:C:H3'	1:AA:867:G:H8	1.66	0.61
1:AA:986:A:H4'	21:AV:55:LYS:CD	2.31	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:10:G:H8	3:AC:10:G:O5'	1.83	0.61
4:AE:140:HIS:O	4:AE:143:GLU:HB3	2.00	0.61
4:AE:141:GLU:OE1	4:AE:142:LEU:N	2.33	0.61
4:AE:58:ILE:O	4:AE:61:LEU:HB3	2.01	0.61
5:AF:24:ALA:HB1	5:AF:28:GLN:CD	2.19	0.61
1:AA:8:A:H5'	7:AH:120:THR:O	2.00	0.61
7:AH:76:ILE:HG21	7:AH:142:LEU:HD13	1.82	0.61
8:AI:39:LYS:O	8:AI:63:TYR:HA	2.00	0.61
10:AK:34:GLU:OE1	10:AK:34:GLU:HA	2.00	0.61
10:AK:38:ILE:C	10:AK:41:ARG:HB2	2.21	0.61
10:AK:67:PRO:O	10:AK:76:PRO:HA	1.99	0.61
10:AK:8:ASP:O	10:AK:11:THR:OG1	2.19	0.61
16:AQ:4:LYS:O	16:AQ:7:ILE:HG13	2.00	0.61
11:AL:111:ARG:HD2	16:AQ:61:TRP:NE1	2.15	0.61
17:AR:6:GLU:O	17:AR:7:GLU:C	2.39	0.61
18:AS:4:ILE:N	18:AS:4:ILE:CD1	2.54	0.61
18:AS:59:TRP:CE3	18:AS:59:TRP:HA	2.36	0.61
19:AT:25:ARG:HG2	19:AT:26:GLN:N	2.15	0.61
1:AA:189:U:N3	19:AT:72:ARG:NH2	2.44	0.61
20:AU:69:THR:O	20:AU:70:ILE:C	2.39	0.61
50:B3:24:THR:C	50:B3:25:TYR:CD2	2.74	0.61
54:B7:51:ALA:O	54:B7:54:GLU:OE1	2.19	0.61
24:BA:1147:C:C2'	24:BA:1148:A:H5'	2.30	0.61
24:BA:1164:G:C5	24:BA:1165:U:C5	2.89	0.61
24:BA:1273:U:H4'	24:BA:1275:A:OP2	2.00	0.61
24:BA:1309:G:C2'	24:BA:1310:G:C5'	2.75	0.61
24:BA:1537:C:C3'	24:BA:1537:C:C6	2.84	0.61
24:BA:1567:A:H4'	24:BA:1568:G:N1	2.14	0.61
24:BA:1650:G:O6	24:BA:2008:C:N4	2.34	0.61
24:BA:1774:C:C5	27:BD:18:VAL:HG11	2.35	0.61
24:BA:1773:A:H2'	24:BA:1774:C:O4'	1.99	0.61
24:BA:2052:G:H2'	24:BA:2053:G:C8	2.29	0.61
24:BA:2058:A:N3	24:BA:2059:A:N7	2.48	0.61
24:BA:2206:C:H5''	24:BA:2228:G:H21	1.65	0.61
24:BA:2378:A:N3	24:BA:2378:A:H2'	2.13	0.61
24:BA:2392:A:O3'	54:B7:32:LEU:HD11	1.99	0.61
24:BA:2578:G:O2'	24:BA:2579:C:H6	1.84	0.61
24:BA:257:A:O5'	24:BA:257:A:C8	2.53	0.61
24:BA:225:A:O2'	24:BA:257:A:H4'	2.01	0.61
24:BA:819:A:H2'	24:BA:820:A:O4'	2.00	0.61
24:BA:820:A:O2'	24:BA:836:G:N2	2.34	0.61
24:BA:936:C:H2'	24:BA:937:U:H6	1.65	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:961:C:C4	24:BA:2031:A:N3	2.69	0.61
24:BA:986:C:O5'	24:BA:986:C:H6	1.84	0.61
27:BD:159:ALA:C	27:BD:196:VAL:HG11	2.20	0.61
29:BF:125:LEU:C	29:BF:127:GLU:N	2.53	0.61
30:BG:126:ASP:HA	30:BG:166:ASP:OD1	2.01	0.61
30:BG:1:MET:C	30:BG:3:LEU:N	2.53	0.61
30:BG:3:LEU:HD22	30:BG:4:ASP:CG	2.21	0.61
31:BH:127:GLU:HB2	31:BH:130:ARG:O	2.00	0.61
31:BH:85:LYS:HZ1	31:BH:141:VAL:HG12	1.63	0.61
31:BH:171:LEU:CA	31:BH:172:LYS:HZ2	2.12	0.61
31:BH:156:ALA:HB1	31:BH:172:LYS:HZ1	1.65	0.61
32:BK:4:ILE:O	32:BK:36:ALA:CB	2.37	0.61
34:BM:103:VAL:O	34:BM:104:LYS:C	2.38	0.61
34:BM:45:ASN:O	34:BM:46:VAL:CG2	2.45	0.61
35:BN:11:ALA:HB3	35:BN:97:ARG:NH1	2.13	0.61
36:BO:81:GLN:HA	36:BO:86:LYS:CE	2.30	0.61
36:BO:91:PHE:CD2	36:BO:96:THR:HG22	2.36	0.61
37:BP:43:THR:O	37:BP:47:ILE:CG1	2.49	0.61
39:BR:10:ARG:O	39:BR:12:PHE:N	2.32	0.61
39:BR:31:SER:HB3	39:BR:34:HIS:HB3	1.81	0.61
41:BT:111:GLU:HG3	41:BT:112:ARG:N	2.16	0.61
41:BT:76:TYR:CD2	41:BT:80:ILE:CD1	2.78	0.61
42:BU:62:LEU:HD13	42:BU:98:GLU:CA	2.31	0.61
44:BW:35:THR:HG22	44:BW:37:THR:H	1.66	0.61
24:BA:336:C:H4'	45:BX:67:LEU:HD23	1.81	0.61
45:BX:82:PRO:HD3	45:BX:97:ARG:H	1.63	0.61
32:BK:130:TYR:N	32:BK:130:TYR:CD1	2.69	0.61
3:AD:64:A:H2'	3:AD:65:G:H8	1.65	0.61
24:BA:2127:G:H5'	26:BC:36:LYS:CG	2.29	0.61
1:AA:1126:U:H2'	1:AA:1127:G:C8	2.36	0.61
1:AA:1157:A:C8	1:AA:1181:G:N2	2.69	0.61
1:AA:255:G:OP2	19:AT:66:SER:HB2	2.00	0.61
1:AA:118:U:O4	1:AA:289:G:H4'	2.00	0.61
1:AA:314:C:H2'	1:AA:315:A:C1'	2.31	0.61
1:AA:354:G:N2	1:AA:355:C:C2	2.69	0.61
1:AA:59:A:O2'	1:AA:388:G:H5''	2.00	0.61
1:AA:515:G:H2'	1:AA:516:U:O4'	2.00	0.61
1:AA:558:G:C5'	1:AA:559:A:H5''	2.31	0.61
1:AA:782:A:C6	1:AA:801:U:C2	2.88	0.61
3:AB:9:A:O2'	3:AB:45:U:C2'	2.48	0.61
3:AD:75:C:H5''	3:AD:76:A:C4'	2.30	0.61
4:AE:182:ILE:HD13	4:AE:182:ILE:H	1.66	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:10:PHE:HD1	5:AF:178:LEU:CD2	2.14	0.61
5:AF:11:ARG:HH22	5:AF:179:ARG:N	1.97	0.61
5:AF:180:ALA:HB1	5:AF:182:ILE:HD11	1.81	0.61
5:AF:91:LEU:HD23	5:AF:92:ALA:N	2.15	0.61
6:AG:80:GLU:HA	6:AG:83:SER:OG	2.00	0.61
8:AI:2:ARG:O	8:AI:67:MET:HE1	2.01	0.61
8:AI:78:GLU:HA	8:AI:81:ILE:CD1	2.31	0.61
9:AJ:88:PRO:CG	9:AJ:152:ALA:HB2	2.29	0.61
10:AK:75:ARG:NH1	10:AK:75:ARG:HB2	2.15	0.61
13:AN:73:MET:SD	13:AN:103:LEU:HB3	2.40	0.61
13:AN:39:PRO:C	13:AN:40:ILE:HD13	2.21	0.61
15:AP:52:GLU:HB3	15:AP:55:ARG:CZ	2.30	0.61
1:AA:136:C:O2'	18:AS:63:GLY:HA2	2.01	0.61
19:AT:81:ARG:HG2	19:AT:84:LEU:HD21	1.83	0.61
20:AU:20:ALA:HB1	20:AU:55:ARG:HH21	1.65	0.61
21:AV:40:ILE:O	21:AV:41:VAL:HG13	2.00	0.61
22:AW:50:GLU:OE1	22:AW:100:ILE:HG23	2.00	0.61
22:AW:57:ARG:NH2	22:AW:100:ILE:HD12	2.15	0.61
48:B1:27:LEU:HD21	48:B1:48:LEU:C	2.21	0.61
48:B1:32:PHE:H	48:B1:32:PHE:HD1	1.45	0.61
54:B7:30:ARG:NH2	54:B7:43:GLN:C	2.51	0.61
24:BA:1024:G:OP2	24:BA:1025:G:H3'	2.01	0.61
24:BA:1054:A:H2'	24:BA:1055:G:C8	2.36	0.61
24:BA:1069:A:H4'	24:BA:1070:A:O5'	2.01	0.61
24:BA:1020:A:N3	24:BA:1140:C:O2	2.33	0.61
24:BA:1303:G:C8	24:BA:1304:C:C5	2.88	0.61
24:BA:1419:A:N7	24:BA:1421:G:C6	2.68	0.61
24:BA:1521:G:H3'	24:BA:1522:G:C5'	2.30	0.61
24:BA:1795:C:O2'	24:BA:1796:U:H5'	2.01	0.61
24:BA:1882:C:C2'	24:BA:1883:G:H5'	2.30	0.61
24:BA:2431:U:O2'	24:BA:2432:A:H5''	2.00	0.61
24:BA:2770:G:H2'	24:BA:2771:C:H5'	1.82	0.61
24:BA:318:C:O2	24:BA:334:C:C2	2.54	0.61
24:BA:216:A:H61	24:BA:431:U:H3	1.46	0.61
24:BA:447:A:C6	24:BA:454:A:N7	2.69	0.61
24:BA:46:C:N4	24:BA:214:G:C8	2.68	0.61
24:BA:503:A:H4'	24:BA:504:U:O5'	2.01	0.61
24:BA:562:U:N3	24:BA:572:A:N3	2.44	0.61
24:BA:637:A:C2	24:BA:651:G:C5'	2.82	0.61
24:BA:84:A:H5'	45:BX:8:LYS:CE	2.29	0.61
24:BA:888:C:H4'	24:BA:889:C:O2	2.00	0.61
24:BA:918:A:N3	24:BA:918:A:H5'	2.15	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:969:U:O2'	24:BA:970:C:H5'	2.01	0.61
25:BB:12:C:C5	47:BZ:74:ARG:O	2.53	0.61
25:BB:6:C:H5'	25:BB:27:C:O2'	2.01	0.61
27:BD:258:LYS:HA	27:BD:261:LYS:HD2	1.83	0.61
27:BD:260:ARG:O	27:BD:261:LYS:C	2.38	0.61
24:BA:1799:G:H5''	27:BD:264:LYS:NZ	2.14	0.61
1:AA:776:G:O6	27:BD:276:LYS:C	2.39	0.61
28:BE:102:VAL:HA	28:BE:202:LYS:HZ1	1.66	0.61
28:BE:54:GLN:HG2	28:BE:57:LYS:HG3	1.83	0.61
28:BE:5:LEU:HA	28:BE:76:ARG:HH22	1.65	0.61
32:BK:29:TYR:N	32:BK:29:TYR:CD1	2.69	0.61
24:BA:2674:G:C5'	35:BN:26:LYS:HD2	2.30	0.61
37:BP:111:GLU:HB3	37:BP:112:GLU:OE2	2.00	0.61
37:BP:32:TYR:CZ	37:BP:106:VAL:HG23	2.35	0.61
38:BQ:51:LEU:HG	38:BQ:66:VAL:HG11	1.81	0.61
38:BQ:75:LEU:O	38:BQ:76:VAL:C	2.39	0.61
39:BR:106:ARG:NH2	39:BR:110:LEU:CD2	2.58	0.61
39:BR:57:LYS:NZ	39:BR:62:LYS:HB3	2.16	0.61
40:BS:28:VAL:HG12	40:BS:30:VAL:CG1	2.30	0.61
41:BT:47:TYR:OH	42:BU:76:LYS:C	2.38	0.61
42:BU:20:LEU:CB	42:BU:95:LEU:HD13	2.31	0.61
46:BY:165:VAL:CG1	46:BY:166:SER:H	1.97	0.61
46:BY:4:ARG:NE	46:BY:44:PHE:HZ	1.80	0.61
32:BK:114:LEU:CA	32:BK:130:TYR:HB3	2.27	0.61
32:BK:94:ALA:HA	32:BK:97:ILE:CD1	2.31	0.61
3:AD:62:C:H4'	26:BC:52:ARG:CD	2.28	0.61
26:BC:211:SER:HB2	26:BC:223:ARG:NH2	2.15	0.61
26:BC:22:ILE:CB	26:BC:190:ARG:HH22	2.14	0.61
26:BC:77:ILE:HG22	26:BC:119:VAL:CG2	2.31	0.61
48:B1:2:ARG:CZ	48:B1:2:ARG:H	2.14	0.61
1:AA:131:C:N4	1:AA:232:G:N1	2.48	0.61
19:AT:100:LYS:HB3	19:AT:100:LYS:NZ	2.15	0.61
1:AA:1157:A:C1'	1:AA:1181:G:H21	2.14	0.61
1:AA:934:C:N4	1:AA:1344:C:N3	2.48	0.61
1:AA:1373:G:O2'	9:AJ:34:GLY:HA2	2.00	0.61
1:AA:1443:G:O3'	1:AA:1446:A:H4'	2.01	0.61
1:AA:190:G:OP1	1:AA:190:G:H8	1.82	0.61
1:AA:224:C:H2'	1:AA:225:C:C6	2.35	0.61
1:AA:467:G:OP2	1:AA:467:G:H3'	2.01	0.61
1:AA:721:G:O6	20:AU:71:LYS:NZ	2.27	0.61
1:AA:869:G:H4'	1:AA:872:A:C8	2.35	0.61
1:AA:918:A:O2'	1:AA:919:A:OP1	2.19	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:938:A:C4	1:AA:939:G:C8	2.89	0.61
1:AA:969:A:OP1	1:AA:969:A:C4'	2.48	0.61
4:AE:55:PHE:HA	4:AE:58:ILE:CG1	2.31	0.61
5:AF:120:VAL:HG21	5:AF:137:ALA:HB1	1.82	0.61
1:AA:406:G:H21	6:AG:119:GLN:HE22	1.48	0.61
6:AG:165:MET:HE1	6:AG:167:GLY:H	1.65	0.61
6:AG:170:VAL:HG11	6:AG:174:LEU:HB2	1.82	0.61
8:AI:64:GLN:C	8:AI:65:VAL:CG1	2.70	0.61
10:AK:22:GLU:HA	10:AK:63:LEU:CD2	2.22	0.61
10:AK:46:LYS:HD2	10:AK:63:LEU:O	2.01	0.61
1:AA:1248:A:H2'	11:AL:70:LYS:HZ1	1.64	0.61
11:AL:93:ARG:CZ	11:AL:97:LYS:HG2	2.29	0.61
19:AT:3:LYS:O	19:AT:5:VAL:HG23	2.01	0.61
8:AI:89:MET:CE	20:AU:76:LEU:HD21	2.31	0.61
21:AV:46:GLY:O	21:AV:47:HIS:ND1	2.34	0.61
1:AA:1319:A:H4'	21:AV:70:LYS:HZ1	1.64	0.61
22:AW:73:HIS:O	22:AW:74:LYS:C	2.39	0.61
1:AA:1327:C:OP1	23:AX:20:LYS:HE2	2.01	0.61
48:B1:38:GLN:H	48:B1:41:GLN:CD	2.02	0.61
49:B2:28:LEU:H	49:B2:28:LEU:HD23	1.64	0.61
50:B3:29:PRO:CG	50:B3:31:ILE:HG23	2.27	0.61
24:BA:2432:A:C2	50:B3:30:GLU:HA	2.30	0.61
54:B7:49:VAL:O	54:B7:53:PRO:CD	2.48	0.61
24:BA:1106:G:OP2	24:BA:1106:G:C8	2.54	0.61
24:BA:1022:G:C5	24:BA:1139:G:C6	2.89	0.61
24:BA:1299:G:O4'	24:BA:1301:A:N3	2.34	0.61
24:BA:1458:C:H4'	24:BA:1459:G:C5	2.35	0.61
24:BA:1519:G:H2'	24:BA:1520:U:O4'	2.00	0.61
24:BA:1536:A:H2'	24:BA:1537:C:C6	2.36	0.61
24:BA:1675:C:C4	28:BE:128:SER:HB2	2.35	0.61
24:BA:18:C:O2	24:BA:553:U:H5''	2.01	0.61
24:BA:1954:G:H2'	24:BA:1956:U:C4	2.36	0.61
24:BA:980:A:H2	24:BA:2038:G:C1'	2.12	0.61
24:BA:2043:C:C2'	24:BA:2044:C:O5'	2.48	0.61
24:BA:2313:C:H2'	24:BA:2314:C:H6	1.65	0.61
24:BA:2356:C:H3'	24:BA:2357:U:C5	2.36	0.61
24:BA:2415:G:C5'	36:BO:61:ARG:HB2	2.30	0.61
24:BA:2469:A:H4'	37:BP:56:ARG:HD3	1.83	0.61
24:BA:2491:U:O2	24:BA:2492:U:C5	2.54	0.61
24:BA:2653:U:H3'	24:BA:2654:A:H8	1.66	0.61
24:BA:270(X):G:C3'	24:BA:270(Y):G:H5'	2.31	0.61
24:BA:2746:U:C4	24:BA:2756:U:C4	2.88	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2747:G:N2	24:BA:2754:U:C2	2.68	0.61
24:BA:27:G:N2	24:BA:512:G:O2'	2.33	0.61
24:BA:2861:G:OP2	24:BA:2861:G:O4'	2.18	0.61
24:BA:2895:U:H2'	24:BA:2896:C:C6	2.35	0.61
24:BA:685:A:C2	24:BA:689:A:C6	2.88	0.61
24:BA:904:C:O2'	24:BA:905:U:H5'	2.01	0.61
25:BB:32:C:O2	25:BB:32:C:H2'	1.99	0.61
25:BB:55:U:C2'	25:BB:56:G:H5'	2.30	0.61
25:BB:60:C:H2'	25:BB:60:C:O2	1.99	0.61
25:BB:13:A:C6	25:BB:70:C:O4'	2.54	0.61
27:BD:143:HIS:O	27:BD:145:VAL:N	2.26	0.61
27:BD:181:GLU:HA	27:BD:270:ILE:CG2	2.29	0.61
24:BA:1790:C:O2'	27:BD:209:ALA:CB	2.49	0.61
27:BD:268:ARG:O	27:BD:269:PHE:CD1	2.54	0.61
24:BA:1824:G:OP1	27:BD:53:PHE:CE2	2.54	0.61
28:BE:111:ARG:HD3	28:BE:160:TYR:O	2.01	0.61
30:BG:121:ASN:ND2	30:BG:133:LEU:HD21	2.16	0.61
30:BG:79:ASN:OD1	30:BG:82:LEU:HG	2.01	0.61
30:BG:8:LYS:HZ1	30:BG:176:LEU:CD1	2.14	0.61
33:BL:101:TRP:CE3	33:BL:105:LEU:HD21	2.36	0.61
1:AA:1423:G:H5'	35:BN:49:ARG:HH21	1.66	0.61
35:BN:97:ARG:CB	35:BN:97:ARG:CZ	2.78	0.61
36:BO:54:GLY:HA2	54:B7:12:LYS:CD	2.30	0.61
24:BA:2393:A:C5'	36:BO:56:SER:N	2.63	0.61
38:BQ:14:SER:HA	38:BQ:17:ARG:HG2	1.81	0.61
38:BQ:52:ILE:HD12	38:BQ:94:TYR:HD1	1.65	0.61
38:BQ:55:ALA:CB	38:BQ:79:LEU:HD11	2.29	0.61
39:BR:62:LYS:O	39:BR:65:VAL:HG22	2.01	0.61
41:BT:9:VAL:HG12	41:BT:13:LYS:HD3	1.82	0.61
45:BX:47:LYS:O	45:BX:48:ALA:HB3	2.00	0.61
47:BZ:39:ARG:HG2	47:BZ:58:THR:OG1	2.01	0.61
32:BK:131:LYS:O	32:BK:131:LYS:HD2	2.01	0.61
3:AD:63:G:H5'	26:BC:53:ARG:NE	2.16	0.61
3:AD:8:U:O4	3:AD:14:A:N7	2.34	0.61
26:BC:163:PHE:N	26:BC:163:PHE:CD2	2.68	0.61
26:BC:77:ILE:HG21	26:BC:100:ILE:HD11	1.83	0.61
26:BC:7:TYR:OH	26:BC:11:LEU:HD13	2.00	0.61
24:BA:1767:C:C4	24:BA:1768:U:C5	2.89	0.61
48:B1:65:GLN:HE21	48:B1:65:GLN:N	1.99	0.61
1:AA:1054:C:C6	1:AA:1054:C:H3'	2.36	0.61
1:AA:1215:G:C2	1:AA:1216:G:C8	2.89	0.61
1:AA:1269:A:C8	1:AA:1270:C:H1'	2.36	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1288:A:C4	1:AA:1289:A:N7	2.69	0.61
1:AA:1371:G:OP2	11:AL:11:LYS:NZ	2.34	0.61
1:AA:1453:G:H2'	1:AA:1454:G:C4'	2.31	0.61
1:AA:501:C:H2'	1:AA:502:G:H8	1.65	0.61
1:AA:781:A:C2'	1:AA:782:A:C5'	2.67	0.61
3:AB:18:G:C2'	3:AB:57:G:H1	2.14	0.61
3:AC:30:G:C2	3:AC:31:A:H1'	2.36	0.61
4:AE:28:PHE:N	4:AE:194:PRO:HG2	2.16	0.61
4:AE:84:GLU:OE1	4:AE:216:SER:HA	2.01	0.61
4:AE:87:ARG:C	4:AE:89:GLY:N	2.54	0.61
6:AG:168:ARG:HD2	6:AG:168:ARG:H	1.66	0.61
6:AG:35:ARG:O	6:AG:37:PRO:CD	2.49	0.61
7:AH:75:THR:HA	7:AH:118:ILE:HD11	1.82	0.61
7:AH:135:THR:C	7:AH:139:LEU:HD12	2.22	0.61
8:AI:14:LEU:CD1	8:AI:15:ASP:N	2.57	0.61
8:AI:4:TYR:HB3	8:AI:91:VAL:O	2.01	0.61
9:AJ:106:GLN:HA	9:AJ:106:GLN:NE2	2.14	0.61
9:AJ:12:LEU:HD22	9:AJ:24:THR:HG22	1.83	0.61
9:AJ:51:GLN:HE22	9:AJ:58:PRO:CG	2.13	0.61
10:AK:69:ARG:NH1	10:AK:73:ASP:O	2.34	0.61
12:AM:23:ILE:CG2	12:AM:72:VAL:HG11	2.30	0.61
12:AM:83:GLU:HA	12:AM:83:GLU:OE1	1.99	0.61
13:AN:104:GLN:HE22	13:AN:106:LYS:HB2	1.65	0.61
13:AN:42:TRP:HE3	13:AN:43:SER:N	1.99	0.61
13:AN:84:VAL:HB	20:AU:88:LYS:HZ3	1.66	0.61
13:AN:92:GLU:OE1	13:AN:92:GLU:HA	2.01	0.61
14:AO:11:VAL:HG22	19:AT:32:TYR:HD1	1.66	0.61
14:AO:24:VAL:HG22	14:AO:98:TYR:CE1	2.34	0.61
14:AO:90:VAL:HG12	14:AO:93:LEU:HD21	1.82	0.61
17:AR:39:LEU:CD1	17:AR:56:LEU:HD13	2.31	0.61
19:AT:66:SER:CB	19:AT:69:LYS:NZ	2.62	0.61
8:AI:50:TYR:HE1	20:AU:81:PHE:CE2	2.19	0.61
53:B6:40:TRP:O	53:B6:41:ARG:HB3	2.01	0.61
24:BA:811:U:H1'	24:BA:1251:C:O2	2.00	0.61
24:BA:128:C:H2'	24:BA:129:C:H6	1.64	0.61
24:BA:1336:A:H2'	24:BA:1337:G:H8	1.66	0.61
24:BA:1419:A:N6	24:BA:1421:G:C2	2.69	0.61
24:BA:1475:G:C2	24:BA:1477:A:N6	2.58	0.61
24:BA:1572:A:P	24:BA:1572:A:O4'	2.59	0.61
24:BA:1928:A:H2'	24:BA:1929:G:H5'	1.82	0.61
24:BA:2006:C:H5''	24:BA:2048:G:H5''	1.83	0.61
24:BA:204:A:H4'	24:BA:205:G:C5'	2.31	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2228:G:C8	24:BA:2229:C:C6	2.88	0.61
24:BA:2424:C:H2'	24:BA:2424:C:O2	2.01	0.61
24:BA:2447:G:O3'	24:BA:2499:C:OP1	2.18	0.61
24:BA:2468:G:HO2'	24:BA:2469:A:H8	1.49	0.61
24:BA:2479:G:C2	24:BA:2480:C:H1'	2.36	0.61
24:BA:2548:G:C8	24:BA:2548:G:H5'	2.32	0.61
24:BA:2595:G:N2	24:BA:2599:G:C6	2.69	0.61
24:BA:2696:U:O2'	24:BA:2697:G:H5'	2.00	0.61
24:BA:290:G:C8	24:BA:290:G:OP1	2.54	0.61
24:BA:453:C:H4'	24:BA:457:A:H62	1.65	0.61
24:BA:558:G:C2'	24:BA:559:G:H5'	2.30	0.61
24:BA:619:G:H8	24:BA:619:G:H3'	1.64	0.61
24:BA:636:G:N2	36:BO:75:ILE:CG2	2.61	0.61
24:BA:775:G:H4'	24:BA:777:A:C5	2.35	0.61
24:BA:937:U:O2'	24:BA:938:G:H5'	2.01	0.61
24:BA:960:A:C2	24:BA:962:G:H1'	2.35	0.61
25:BB:52:A:N3	25:BB:52:A:H2'	2.15	0.61
27:BD:183:ARG:HA	27:BD:268:ARG:HA	1.83	0.61
27:BD:176:ARG:NH2	27:BD:270:ILE:HD11	2.10	0.61
27:BD:80:ALA:O	27:BD:81:ALA:HB2	2.01	0.61
28:BE:92:THR:CG2	28:BE:96:PHE:HB2	2.30	0.61
30:BG:119:GLY:HA3	30:BG:180:PHE:CE2	2.35	0.61
34:BM:100:GLU:C	34:BM:103:VAL:HG13	2.21	0.61
34:BM:33:LEU:CD1	34:BM:34:LEU:HG	2.29	0.61
34:BM:43:THR:CB	34:BM:44:PRO:CD	2.59	0.61
34:BM:87:LEU:HA	34:BM:90:MET:HB2	1.82	0.61
35:BN:3:GLN:OE1	35:BN:3:GLN:O	2.19	0.61
37:BP:36:ALA:O	37:BP:100:GLY:HA2	2.01	0.61
37:BP:34:LEU:CG	37:BP:67:ARG:HH22	2.13	0.61
40:BS:43:GLN:OE1	40:BS:43:GLN:N	2.30	0.61
40:BS:6:LEU:O	40:BS:9:LEU:HB2	2.01	0.61
41:BT:81:HIS:HB3	41:BT:117:GLN:OE1	2.01	0.61
41:BT:53:ARG:O	41:BT:56:ASP:HB2	2.01	0.61
41:BT:88:ILE:HG12	42:BU:52:VAL:CG1	2.31	0.61
41:BT:89:GLU:CD	42:BU:52:VAL:HB	2.21	0.61
43:BV:72:LYS:O	43:BV:106:ILE:HG22	2.00	0.61
44:BW:36:LYS:CD	44:BW:39:ILE:HD12	2.30	0.61
44:BW:29:TRP:CE3	44:BW:76:ARG:HG3	2.36	0.61
44:BW:89:ILE:HG23	44:BW:92:LEU:HD22	1.83	0.61
46:BY:115:GLY:O	46:BY:117:LEU:HD12	2.00	0.61
46:BY:137:ILE:C	46:BY:138:GLU:HG3	2.21	0.61
46:BY:24:LEU:HD13	46:BY:83:PRO:CG	2.29	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AB:72:C:H2'	3:AB:73:A:H8	1.65	0.61
25:BB:93:C:H2'	25:BB:94:C:H6	1.66	0.61
1:AA:1126:U:C2	1:AA:1127:G:C8	2.89	0.60
1:AA:1180:A:O2'	1:AA:1181:G:H5'	2.00	0.60
1:AA:1314:C:O5'	21:AV:6:LYS:HG2	1.99	0.60
1:AA:1389:C:H2'	1:AA:1390:U:C5'	2.31	0.60
1:AA:186(E):C:O2'	1:AA:186(F):C:H5'	2.01	0.60
1:AA:221:C:H2'	1:AA:222:U:H6	1.66	0.60
1:AA:409:G:H5''	6:AG:24:GLU:OE1	2.01	0.60
1:AA:571:U:C6	1:AA:571:U:H5''	2.35	0.60
1:AA:64:G:N2	1:AA:67:C:C4	2.69	0.60
1:AA:685:G:H2'	1:AA:686:U:C6	2.36	0.60
1:AA:690:G:N3	1:AA:690:G:H2'	2.15	0.60
1:AA:801:U:H2'	1:AA:801:U:O2	2.00	0.60
1:AA:766:A:N7	1:AA:814:A:C6	2.69	0.60
1:AA:765:G:N2	1:AA:816:A:C2	2.69	0.60
1:AA:854:G:P	1:AA:871:U:O2	2.59	0.60
1:AA:857:C:O2'	1:AA:858:G:H5'	2.00	0.60
3:AC:76:A:H3'	3:AC:76:A:C8	2.35	0.60
3:AD:71:G:OP1	24:BA:1893:C:H5'	2.01	0.60
4:AE:115:LEU:HD12	4:AE:118:LEU:CD1	2.28	0.60
4:AE:19:HIS:HB3	4:AE:189:ASP:OD2	2.00	0.60
4:AE:35:GLU:O	4:AE:36:ARG:NE	2.35	0.60
6:AG:58:LEU:CD1	6:AG:59:ARG:NH1	2.64	0.60
7:AH:77:PRO:O	7:AH:93:PRO:HG3	2.01	0.60
8:AI:33:TYR:CE2	8:AI:75:LEU:N	2.69	0.60
8:AI:80:ARG:CG	8:AI:88:VAL:HG21	2.29	0.60
10:AK:51:VAL:HG12	10:AK:52:ASP:N	2.16	0.60
12:AM:12:ASP:OD1	12:AM:14:LYS:HB2	2.01	0.60
14:AO:34:ARG:HG3	14:AO:105:TYR:CE1	2.36	0.60
15:AP:4:ILE:O	15:AP:5:ALA:HB3	2.01	0.60
17:AR:43:LEU:HD11	17:AR:56:LEU:CD2	2.31	0.60
18:AS:19:ILE:HD12	18:AS:38:TYR:N	2.16	0.60
18:AS:4:ILE:CG2	18:AS:21:VAL:HG13	2.30	0.60
1:AA:761:G:H1'	19:AT:104:LYS:O	2.01	0.60
19:AT:7:THR:HG22	19:AT:56:VAL:HG12	1.83	0.60
19:AT:59:ILE:CD1	19:AT:72:ARG:N	2.64	0.60
19:AT:58:GLU:OE2	19:AT:74:LEU:HB3	2.01	0.60
49:B2:23:LEU:HA	49:B2:28:LEU:HD12	1.83	0.60
50:B3:23:GLU:C	50:B3:25:TYR:N	2.54	0.60
51:B4:36:CYS:HB2	51:B4:37:LYS:CD	2.31	0.60
55:B8:7:VAL:CG1	55:B8:36:GLN:HE22	2.10	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:B8:9:ARG:NH2	55:B8:16:VAL:HG11	2.16	0.60
24:BA:1044:G:O6	24:BA:1112:G:N3	2.34	0.60
24:BA:1050:A:C8	24:BA:1051:G:C8	2.89	0.60
24:BA:1142(A):A:H3'	24:BA:1143:A:H5''	1.83	0.60
24:BA:1279:G:H2'	24:BA:1280:G:H8	1.65	0.60
24:BA:139:G:C2'	24:BA:140:A:O5'	2.49	0.60
24:BA:140:A:C2	24:BA:1408:C:O2	2.53	0.60
24:BA:150:C:O2	24:BA:150:C:C2'	2.49	0.60
24:BA:1602:U:C2'	24:BA:1603:A:O5'	2.49	0.60
24:BA:1687:G:C2	24:BA:1688:U:C5	2.89	0.60
24:BA:1764:G:O2'	24:BA:1765:C:C5'	2.45	0.60
24:BA:1796:U:C2	24:BA:1797:C:C5	2.90	0.60
24:BA:1925:C:H2'	24:BA:1926:U:O5'	2.00	0.60
24:BA:1993:U:C2	24:BA:1994:C:C5	2.89	0.60
24:BA:2085:C:H2'	24:BA:2086:U:O4'	2.01	0.60
24:BA:2259:G:C2	24:BA:2282:G:C6	2.89	0.60
24:BA:2360:A:C8	24:BA:2361:A:C8	2.89	0.60
24:BA:2497:A:C2'	24:BA:2498:C:OP2	2.49	0.60
24:BA:2629:A:C6	24:BA:2895:U:C2	2.89	0.60
24:BA:539:G:H2'	24:BA:540:G:H8	1.66	0.60
24:BA:628:G:P	24:BA:628:G:H8	2.24	0.60
24:BA:675:A:O2'	24:BA:2443:C:H4'	2.01	0.60
24:BA:718:A:C8	24:BA:719:C:C6	2.89	0.60
24:BA:823:G:C6	24:BA:835:A:C6	2.88	0.60
24:BA:887:A:O2'	24:BA:889:C:C6	2.54	0.60
24:BA:957:A:C5	24:BA:959:A:C8	2.89	0.60
25:BB:30:C:H2'	25:BB:31:C:C5'	2.28	0.60
25:BB:73:A:N1	46:BY:29:TYR:CE1	2.69	0.60
25:BB:75:G:H2'	46:BY:85:HIS:CE1	2.32	0.60
27:BD:127:VAL:CA	27:BD:193:VAL:HG12	2.17	0.60
28:BE:124:GLY:HA3	28:BE:136:ARG:HB3	1.81	0.60
28:BE:136:ARG:CZ	28:BE:137:HIS:HA	2.30	0.60
28:BE:13:ARG:CZ	28:BE:20:ALA:CB	2.79	0.60
28:BE:154:LYS:HD2	28:BE:155:LYS:O	2.01	0.60
28:BE:81:ILE:HG22	28:BE:82:ARG:H	1.63	0.60
29:BF:34:TRP:CH2	36:BO:8:PRO:HD2	2.36	0.60
30:BG:139:LEU:HD13	30:BG:142:PRO:CB	2.31	0.60
30:BG:7:LEU:HD22	30:BG:11:TYR:CE1	2.29	0.60
30:BG:72:ARG:C	30:BG:88:ILE:HD11	2.21	0.60
31:BH:68:THR:HG22	31:BH:72:ILE:HD12	1.82	0.60
34:BM:88:GLU:HB2	34:BM:89:LYS:NZ	2.16	0.60
35:BN:63:VAL:HG23	35:BN:64:ARG:N	2.14	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BO:49:ARG:C	36:BO:52:GLU:HG2	2.21	0.60
37:BP:106:VAL:O	37:BP:107:ALA:HB2	2.00	0.60
38:BQ:110:PRO:O	38:BQ:111:LEU:HD23	2.01	0.60
38:BQ:32:GLY:O	38:BQ:115:GLU:CB	2.32	0.60
38:BQ:67:LEU:HD13	38:BQ:67:LEU:C	2.21	0.60
38:BQ:96:ARG:O	38:BQ:114:VAL:HG13	2.01	0.60
39:BR:17:ARG:O	39:BR:20:ARG:CG	2.49	0.60
39:BR:95:HIS:ND1	39:BR:96:GLY:N	2.49	0.60
40:BS:57:PHE:N	40:BS:57:PHE:HD2	1.98	0.60
41:BT:111:GLU:CA	41:BT:114:LYS:HZ1	2.13	0.60
24:BA:1248:G:C8	41:BT:2:PRO:CA	2.81	0.60
42:BU:6:LYS:NZ	42:BU:10:LYS:HB3	2.16	0.60
43:BV:75:TYR:O	43:BV:104:THR:CG2	2.49	0.60
46:BY:116:VAL:HG21	46:BY:145:GLU:CG	2.30	0.60
24:BA:2278:A:N7	47:BZ:14:ARG:HG3	2.15	0.60
47:BZ:38:VAL:HG12	47:BZ:45:PHE:CE1	2.36	0.60
3:AD:63:G:H2'	3:AD:64:A:H8	1.66	0.60
26:BC:10:LEU:O	26:BC:13:LYS:HB2	2.01	0.60
26:BC:26:ALA:CB	26:BC:185:LEU:HB2	2.31	0.60
6:AG:43:HIS:O	6:AG:46:LYS:HB2	1.99	0.60
33:BL:138:VAL:O	33:BL:139:VAL:CG2	2.47	0.60
39:BR:56:LEU:HB3	39:BR:59:LYS:NZ	2.16	0.60
14:AO:43:VAL:HG12	14:AO:44:THR:O	2.01	0.60
1:AA:1400:C:C4'	1:AA:1401:G:OP2	2.49	0.60
1:AA:155:C:O2'	1:AA:156:G:H5'	2.01	0.60
1:AA:169:C:O2'	1:AA:170:U:H5'	2.01	0.60
1:AA:129(A):G:N2	1:AA:191(A):G:C4	2.69	0.60
1:AA:293:G:N3	1:AA:293:G:H2'	2.15	0.60
1:AA:383:A:H2'	1:AA:384:G:O4'	2.00	0.60
1:AA:789:U:C6	1:AA:789:U:H3'	2.36	0.60
1:AA:797:C:HO2'	1:AA:798:G:H5'	1.66	0.60
3:AC:46:G:N3	3:AC:46:G:H2'	2.17	0.60
4:AE:138:LEU:O	4:AE:141:GLU:HB3	2.01	0.60
4:AE:142:LEU:HD23	4:AE:142:LEU:O	2.01	0.60
4:AE:146:GLN:O	4:AE:148:TYR:N	2.34	0.60
4:AE:175:ARG:HD2	4:AE:179:LYS:NZ	2.16	0.60
4:AE:163:PHE:CZ	4:AE:186:ALA:HA	2.36	0.60
4:AE:208:ILE:HA	4:AE:211:ILE:HD12	1.83	0.60
4:AE:40:HIS:C	4:AE:41:ILE:HD12	2.21	0.60
4:AE:77:ALA:O	4:AE:80:ILE:N	2.34	0.60
4:AE:92:TYR:H	4:AE:152:PHE:HA	1.64	0.60
5:AF:36:ASP:OD2	5:AF:40:ARG:NH1	2.34	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:8:ILE:O	5:AF:11:ARG:N	2.33	0.60
6:AG:102:ASP:HB2	6:AG:136:PRO:O	2.01	0.60
6:AG:170:VAL:HG12	6:AG:171:GLY:N	2.17	0.60
7:AH:15:ARG:CZ	7:AH:26:PHE:CE2	2.83	0.60
8:AI:10:LEU:HD11	8:AI:61:LEU:CD1	2.31	0.60
8:AI:75:LEU:HD23	8:AI:78:GLU:HB3	1.82	0.60
9:AJ:26:PHE:CD2	9:AJ:43:PHE:HE1	2.19	0.60
9:AJ:6:ARG:HA	9:AJ:6:ARG:NH1	2.16	0.60
12:AM:39:PRO:O	12:AM:69:ASN:O	2.19	0.60
12:AM:18:ALA:CB	12:AM:91:PRO:HB3	2.23	0.60
13:AN:28:THR:HG22	13:AN:29:ILE:N	2.16	0.60
13:AN:92:GLU:O	13:AN:93:GLN:C	2.39	0.60
15:AP:20:THR:HA	15:AP:25:ILE:HG22	1.81	0.60
5:AF:33:LEU:CG	16:AQ:54:PRO:HD2	2.31	0.60
17:AR:49:ASP:OD1	17:AR:52:SER:HB2	2.01	0.60
20:AU:67:ALA:O	20:AU:70:ILE:N	2.34	0.60
21:AV:24:ALA:C	21:AV:26:GLY:H	2.04	0.60
21:AV:47:HIS:H	21:AV:62:ILE:CG2	2.13	0.60
21:AV:46:GLY:HA2	21:AV:62:ILE:O	2.01	0.60
22:AW:49:ALA:HA	22:AW:92:LEU:CD2	2.26	0.60
49:B2:29:ARG:CB	49:B2:30:ARG:CZ	2.79	0.60
50:B3:22:ILE:HD13	50:B3:30:GLU:OE1	2.01	0.60
51:B4:44:THR:C	51:B4:52:TYR:HH	2.05	0.60
54:B7:26:LYS:HB2	54:B7:44:LYS:HZ1	1.65	0.60
54:B7:53:PRO:HA	54:B7:56:GLU:CG	2.31	0.60
24:BA:1083:U:O2'	24:BA:1084:A:C8	2.50	0.60
24:BA:1458:C:H4'	24:BA:1459:G:N7	2.15	0.60
24:BA:1780:A:OP2	24:BA:1782:C:OP2	2.19	0.60
24:BA:1964:G:O2'	24:BA:1965:C:OP1	2.17	0.60
24:BA:1996:C:OP1	24:BA:1996:C:C6	2.54	0.60
24:BA:2053:G:C2'	24:BA:2054:A:O5'	2.49	0.60
24:BA:2570:G:C5'	24:BA:2571:C:OP2	2.47	0.60
24:BA:2618:G:C2	24:BA:2619:C:C5	2.89	0.60
24:BA:2790:A:H2	24:BA:2894:G:N7	1.98	0.60
24:BA:324:A:N3	24:BA:324:A:H2'	2.16	0.60
24:BA:557:U:H2'	24:BA:558:G:O4'	2.01	0.60
24:BA:586:A:C6	24:BA:810:U:H5'	2.37	0.60
24:BA:942:G:H5'	36:BO:32:THR:HG23	1.82	0.60
24:BA:944:G:H4'	24:BA:945:A:O5'	2.02	0.60
24:BA:976:C:N4	24:BA:988:A:N3	2.48	0.60
27:BD:146:GLU:HA	27:BD:154:LYS:HG2	1.81	0.60
27:BD:176:ARG:HG3	27:BD:176:ARG:NH1	2.09	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:223:GLY:C	27:BD:225:ALA:N	2.55	0.60
28:BE:9:VAL:HG12	28:BE:192:ASN:ND2	2.14	0.60
29:BF:119:ARG:NH2	29:BF:120:GLU:OE1	2.34	0.60
29:BF:36:VAL:O	29:BF:184:TYR:OH	2.19	0.60
29:BF:64:ILE:CD1	29:BF:65:TRP:N	2.59	0.60
30:BG:123:ASN:HB2	30:BG:126:ASP:HB2	1.83	0.60
30:BG:119:GLY:HA3	30:BG:180:PHE:CZ	2.35	0.60
31:BH:83:TYR:HB2	31:BH:136:ILE:O	2.00	0.60
31:BH:143:GLN:O	31:BH:146:ALA:HB3	2.01	0.60
33:BL:101:TRP:CZ3	33:BL:105:LEU:HD21	2.36	0.60
24:BA:1059:G:H5'	33:BL:116:ASN:HD22	1.66	0.60
34:BM:16:ILE:C	34:BM:54:VAL:HG23	2.22	0.60
34:BM:68:GLU:H	34:BM:70:LYS:CE	2.14	0.60
24:BA:2024:G:HO2'	34:BM:78:TYR:HH	1.41	0.60
35:BN:23:ARG:NH1	35:BN:23:ARG:HB2	2.04	0.60
36:BO:52:GLU:O	36:BO:55:ARG:N	2.34	0.60
36:BO:76:LYS:CE	36:BO:99:LEU:HD11	2.31	0.60
37:BP:76:LYS:HD2	37:BP:76:LYS:C	2.21	0.60
39:BR:39:ILE:HD11	39:BR:77:ALA:HB2	1.83	0.60
39:BR:9:ARG:HH11	39:BR:9:ARG:H	1.48	0.60
40:BS:110:ILE:HB	40:BS:113:LYS:HG3	1.82	0.60
42:BU:66:ARG:NE	42:BU:95:LEU:HB2	2.09	0.60
42:BU:18:LEU:HA	42:BU:96:ILE:O	2.00	0.60
43:BV:72:LYS:O	43:BV:106:ILE:O	2.19	0.60
44:BW:92:LEU:HA	44:BW:95:LEU:HD12	1.83	0.60
45:BX:97:ARG:NH2	45:BX:101:LYS:HD3	2.16	0.60
45:BX:1:MET:HE2	45:BX:67:LEU:HB3	1.83	0.60
32:BK:127:VAL:CG2	32:BK:141:LYS:HA	2.18	0.60
32:BK:75:LEU:O	32:BK:141:LYS:NZ	2.27	0.60
1:AA:161:A:N6	1:AA:162:A:C6	2.70	0.60
24:BA:1510:A:H3'	24:BA:1511:A:C5	2.36	0.60
1:AA:1005:A:C1'	1:AA:1036:G:N2	2.63	0.60
1:AA:1232:U:OP1	11:AL:125:TYR:O	2.19	0.60
1:AA:129(A):G:C2	1:AA:188:U:O2'	2.53	0.60
1:AA:1329:A:O2'	1:AA:1330:U:H5'	2.01	0.60
1:AA:1370:G:H5''	11:AL:12:GLU:CD	2.22	0.60
1:AA:245:C:C2	1:AA:284:G:C2	2.89	0.60
1:AA:600:C:C2	1:AA:639:G:N2	2.69	0.60
1:AA:890:G:O2'	1:AA:891:U:P	2.60	0.60
1:AA:91:C:C2	1:AA:92:G:C8	2.89	0.60
1:AA:944:G:H8	1:AA:944:G:O5'	1.85	0.60
1:AA:986:A:C4'	21:AV:55:LYS:HG3	2.32	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AB:52:G:O2'	3:AB:53:G:O4'	2.18	0.60
3:AC:73:A:H2'	3:AC:74:C:OP1	2.01	0.60
4:AE:115:LEU:HB2	4:AE:145:LEU:CG	2.31	0.60
5:AF:11:ARG:O	5:AF:14:ILE:HB	2.02	0.60
1:AA:619:U:N3	6:AG:135:LEU:HD21	2.16	0.60
6:AG:31:CYS:SG	6:AG:33:MET:CG	2.89	0.60
10:AK:1:MET:CG	10:AK:2:LEU:H	2.14	0.60
10:AK:17:THR:HG21	10:AK:80:ILE:CG2	2.32	0.60
11:AL:38:GLN:C	11:AL:40:LEU:N	2.53	0.60
12:AM:6:ILE:O	12:AM:71:LEU:HD13	2.00	0.60
12:AM:75:ILE:HG22	12:AM:76:ASN:N	2.16	0.60
1:AA:1230:C:O2	15:AP:126:LYS:CG	2.50	0.60
15:AP:22:ILE:HB	15:AP:25:ILE:CG1	2.31	0.60
15:AP:14:ARG:H	15:AP:44:ARG:HD2	1.65	0.60
15:AP:66:LEU:C	15:AP:70:LEU:HB2	2.22	0.60
15:AP:98:VAL:H	15:AP:110:ARG:HH21	1.49	0.60
1:AA:1316:G:H5''	16:AQ:17:LYS:NZ	2.17	0.60
16:AQ:26:ARG:CB	16:AQ:43:CYS:CB	2.79	0.60
16:AQ:54:PRO:O	16:AQ:56:VAL:N	2.35	0.60
18:AS:18:ARG:NH1	18:AS:35:LYS:CB	2.47	0.60
18:AS:20:VAL:C	18:AS:36:ILE:HD11	2.21	0.60
18:AS:75:ARG:HA	18:AS:80:PHE:CB	2.31	0.60
1:AA:189:U:H2'	19:AT:63:ARG:NH2	2.16	0.60
20:AU:53:ARG:HD3	20:AU:63:GLN:NE2	2.16	0.60
21:AV:22:LEU:HD23	21:AV:22:LEU:C	2.21	0.60
50:B3:65:ASP:HA	50:B3:68:ARG:CZ	2.31	0.60
51:B4:9:LYS:HD3	51:B4:10:LYS:H	1.64	0.60
54:B7:8:LYS:N	54:B7:11:LYS:HE3	2.16	0.60
54:B7:50:LEU:O	54:B7:53:PRO:HD2	2.00	0.60
24:BA:1127:A:H8	24:BA:1127:A:H3'	1.65	0.60
24:BA:1176:G:H5''	24:BA:1177:A:C8	2.36	0.60
24:BA:1207:C:C2	24:BA:1208:C:C5	2.89	0.60
24:BA:1388:G:H2'	24:BA:1389:G:C8	2.34	0.60
24:BA:1431:U:C2'	24:BA:1432:C:H5'	2.30	0.60
24:BA:1447:G:H1'	24:BA:1545(A):A:H1'	1.82	0.60
24:BA:1557:C:C2'	24:BA:1558:A:H8	2.04	0.60
24:BA:1691:C:C2'	24:BA:1692:U:H5'	2.31	0.60
24:BA:1937:A:H2'	24:BA:1938:A:OP1	2.00	0.60
24:BA:1834:U:H1'	24:BA:1969:A:H2	1.63	0.60
24:BA:218:A:N1	24:BA:235:U:O2'	2.25	0.60
24:BA:2271:G:H8	24:BA:2271:G:O5'	1.84	0.60
24:BA:2307:G:OP2	24:BA:2307:G:H8	1.84	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2358:G:N3	24:BA:2358:G:H2'	2.15	0.60
3:AB:63:G:C4'	24:BA:2482:G:O3'	2.38	0.60
24:BA:2522:U:O2	24:BA:2765:A:N6	2.34	0.60
24:BA:2695:C:H2'	24:BA:2696:U:H5	1.63	0.60
24:BA:2831:G:O4'	24:BA:2883:A:C2	2.53	0.60
24:BA:319:C:C2'	24:BA:320:A:O4'	2.49	0.60
24:BA:343:C:C2'	24:BA:344:G:C5'	2.75	0.60
24:BA:572:A:H2'	24:BA:573:G:C1'	2.31	0.60
24:BA:594:U:H2'	24:BA:595:C:H6	1.61	0.60
24:BA:613:U:H5	24:BA:614:U:O2	1.83	0.60
24:BA:614:U:H5''	24:BA:615:G:OP2	2.02	0.60
24:BA:627:A:C4	24:BA:637:A:C4	2.88	0.60
24:BA:669:G:H5''	24:BA:670:A:OP2	2.01	0.60
24:BA:72:U:C5	24:BA:112:U:O2	2.54	0.60
24:BA:744:G:H2'	24:BA:745:G:C8	2.35	0.60
24:BA:788:A:O2'	24:BA:789:A:OP2	2.17	0.60
24:BA:804:A:C5'	24:BA:805:G:OP1	2.48	0.60
24:BA:890:A:H4'	24:BA:892:G:H5'	1.84	0.60
24:BA:899:A:H61	24:BA:900:A:N6	1.99	0.60
24:BA:944:G:C5'	24:BA:945:A:H5''	2.24	0.60
24:BA:977:G:N3	24:BA:978:G:H1'	2.15	0.60
25:BB:25:A:O2'	25:BB:26:A:H5'	2.01	0.60
25:BB:3:C:H2'	25:BB:4:C:C6	2.36	0.60
27:BD:196:VAL:CG1	27:BD:197:GLY:N	2.31	0.60
27:BD:55:GLY:H	27:BD:219:PRO:HD2	1.62	0.60
28:BE:37:ARG:HB2	28:BE:40:GLU:HB2	1.83	0.60
30:BG:144:ILE:HD12	30:BG:147:ASP:CG	2.21	0.60
30:BG:135:LEU:CD1	30:BG:155:MET:HB2	2.32	0.60
30:BG:13:GLU:O	30:BG:17:PRO:HD2	2.01	0.60
30:BG:6:ALA:HA	30:BG:9:ARG:NE	2.17	0.60
30:BG:75:LYS:NZ	30:BG:87:PRO:HD3	2.15	0.60
30:BG:6:ALA:CA	30:BG:9:ARG:NH2	2.64	0.60
32:BK:5:LEU:HB2	32:BK:8:PRO:CG	2.30	0.60
33:BL:27:LEU:HD22	33:BL:32:ALA:CB	2.31	0.60
34:BM:75:TYR:O	34:BM:76:SER:O	2.19	0.60
35:BN:25:LEU:N	35:BN:39:ILE:HG22	2.14	0.60
35:BN:32:TYR:O	35:BN:34:THR:N	2.34	0.60
35:BN:97:ARG:CG	35:BN:117:LEU:CD2	2.79	0.60
35:BN:97:ARG:NH1	35:BN:98:VAL:CA	2.64	0.60
24:BA:623:G:H8	36:BO:105:LEU:CB	2.15	0.60
36:BO:23:PRO:HB2	36:BO:29:LYS:H	1.65	0.60
24:BA:636:G:H22	36:BO:75:ILE:HG23	1.64	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:64:ILE:HG23	37:BP:106:VAL:O	2.01	0.60
37:BP:39:PRO:HG3	37:BP:127:ILE:CG1	2.31	0.60
37:BP:45:GLN:HA	37:BP:48:GLU:CG	2.30	0.60
38:BQ:20:LEU:CD1	38:BQ:20:LEU:C	2.67	0.60
38:BQ:33:ARG:HH21	51:B4:56:LYS:HE2	1.67	0.60
38:BQ:38:VAL:CB	38:BQ:39:PRO:CD	2.77	0.60
41:BT:59:ARG:O	41:BT:62:ILE:N	2.34	0.60
42:BU:5:VAL:HG13	42:BU:39:LEU:HA	1.83	0.60
41:BT:47:TYR:CZ	42:BU:76:LYS:C	2.74	0.60
24:BA:2009:G:H5''	43:BV:41:LYS:CG	2.32	0.60
24:BA:1340:U:H5	44:BW:57:LEU:CG	2.14	0.60
45:BX:1:MET:HG2	45:BX:33:LYS:HG3	1.84	0.60
46:BY:23:LYS:NZ	46:BY:38:TYR:O	2.33	0.60
32:BK:81:VAL:HG21	32:BK:123:LEU:HD13	1.84	0.60
3:AD:47:U:H2'	3:AD:48:C:C5'	2.21	0.60
24:BA:2112:G:H5''	24:BA:2113:U:OP2	2.01	0.60
26:BC:100:ILE:HA	26:BC:127:LEU:HD11	1.82	0.60
26:BC:97:GLU:OE1	26:BC:122:ALA:HB2	2.01	0.60
1:AA:1010:G:C2	1:AA:1020:U:H1'	2.37	0.60
1:AA:1010:G:N2	1:AA:1020:U:C1'	2.61	0.60
2:A1:34:U:H6	2:A1:34:U:H3'	1.65	0.60
1:AA:1005:A:C3'	1:AA:1006:C:H6	2.09	0.60
1:AA:1346:A:C8	1:AA:1348:U:C2	2.88	0.60
1:AA:1319:A:C2	1:AA:1361:G:N2	2.70	0.60
1:AA:1411:C:C2	1:AA:1412:C:C5	2.90	0.60
1:AA:129(A):G:H2'	1:AA:189:U:C5	2.36	0.60
1:AA:173:U:H4'	1:AA:197:A:H1'	1.83	0.60
1:AA:244:U:O2'	1:AA:245:C:P	2.60	0.60
1:AA:274:A:H5'	1:AA:275:G:OP1	2.01	0.60
1:AA:357:G:OP1	1:AA:367:U:H3'	2.01	0.60
1:AA:594:G:H3'	1:AA:595:G:O4'	2.01	0.60
1:AA:777:A:C4	1:AA:778:G:C8	2.89	0.60
1:AA:794:A:H2'	1:AA:795:C:C6	2.37	0.60
4:AE:162:ILE:O	4:AE:185:ILE:HD13	2.01	0.60
4:AE:56:ARG:O	4:AE:59:GLU:HG3	2.02	0.60
4:AE:70:PHE:HB3	4:AE:163:PHE:O	2.00	0.60
6:AG:20:TYR:CB	6:AG:26:CYS:O	2.49	0.60
7:AH:94:ALA:CB	7:AH:119:LEU:HD21	2.31	0.60
7:AH:45:PHE:HE1	7:AH:47:LYS:HD2	1.65	0.60
13:AN:20:TYR:HE1	13:AN:33:THR:HG1	1.47	0.60
14:AO:38:THR:HG22	14:AO:58:VAL:HA	1.82	0.60
14:AO:56:ALA:CB	14:AO:68:ALA:O	2.36	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AP:18:ALA:HB2	15:AP:45:VAL:HG21	1.83	0.60
18:AS:58:TYR:HD1	18:AS:59:TRP:N	1.98	0.60
21:AV:27:GLU:HG2	21:AV:28:LYS:H	1.63	0.60
52:B5:9:LEU:HD13	52:B5:27:LYS:HA	1.82	0.60
24:BA:1022:G:O2'	24:BA:1023:U:P	2.59	0.60
24:BA:1071:G:C2'	24:BA:1072:C:H5''	2.30	0.60
24:BA:1188:U:O2	24:BA:1189:A:O4'	2.19	0.60
24:BA:1322:A:H2'	24:BA:1323:U:H5'	1.84	0.60
24:BA:1366:A:C2	24:BA:1367:A:N3	2.69	0.60
24:BA:1620:G:O2'	24:BA:1621:U:H5'	2.01	0.60
24:BA:1675:C:C2'	24:BA:1676:A:H5'	2.32	0.60
24:BA:197:A:H3'	24:BA:198:C:C5	2.36	0.60
24:BA:2209:C:OP2	24:BA:2210:G:OP2	2.20	0.60
24:BA:2216:G:O2'	24:BA:2217:G:H5'	2.01	0.60
24:BA:230:U:O2'	24:BA:231:C:O4'	2.19	0.60
24:BA:2371:G:N2	24:BA:2372:G:C5	2.69	0.60
24:BA:2071:A:H2	24:BA:2441:C:N3	1.99	0.60
24:BA:2582:G:C2	24:BA:2583:G:H1'	2.35	0.60
24:BA:2696:U:C2'	24:BA:2697:G:O5'	2.48	0.60
24:BA:270(Z):U:C4	24:BA:271(C):U:H1'	2.36	0.60
24:BA:1050:A:N6	24:BA:2751:G:N1	2.49	0.60
24:BA:298:G:H1	24:BA:338:G:HO2'	1.45	0.60
24:BA:13:A:C2	24:BA:526:A:N6	2.68	0.60
24:BA:684:G:H5''	24:BA:684:G:H8	1.65	0.60
24:BA:712:G:C5	24:BA:713:G:N7	2.68	0.60
24:BA:728:G:H22	24:BA:762:U:P	2.24	0.60
24:BA:805:G:H1'	24:BA:831:G:O2'	2.01	0.60
25:BB:23:G:N2	25:BB:61:G:C5	2.70	0.60
27:BD:34:VAL:N	27:BD:104:TYR:OH	2.34	0.60
27:BD:105:ILE:CD1	27:BD:106:ILE:H	2.06	0.60
27:BD:171:ASP:O	27:BD:186:HIS:CA	2.44	0.60
27:BD:58:HIS:O	27:BD:59:LYS:CE	2.49	0.60
27:BD:61:LEU:HB3	27:BD:86:PRO:HG2	1.82	0.60
28:BE:4:ILE:CD1	28:BE:76:ARG:NH2	2.64	0.60
28:BE:47:VAL:HG22	28:BE:79:ARG:CG	2.30	0.60
29:BF:185:ASP:O	29:BF:188:ARG:HG3	2.01	0.60
29:BF:41:LEU:CA	29:BF:44:ARG:NE	2.63	0.60
31:BH:150:ALA:O	31:BH:152:ARG:N	2.34	0.60
31:BH:37:VAL:HG22	31:BH:37:VAL:O	2.01	0.60
31:BH:59:ARG:O	31:BH:62:LYS:HG2	2.02	0.60
31:BH:85:LYS:HB2	31:BH:85:LYS:NZ	2.16	0.60
32:BK:31:LEU:HD22	32:BK:36:ALA:N	2.16	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BK:9:LEU:HA	32:BK:17:GLN:OE1	1.99	0.60
34:BM:74:ARG:CD	34:BM:82:LEU:HD13	2.31	0.60
35:BN:31:LYS:HB3	35:BN:32:TYR:CZ	2.36	0.60
35:BN:3:GLN:CD	35:BN:33:ALA:HB3	2.20	0.60
35:BN:58:VAL:O	35:BN:59:LYS:HB3	2.01	0.60
36:BO:112:LEU:O	36:BO:129:ALA:HB3	2.01	0.60
24:BA:2483:C:N3	37:BP:124:LYS:HE2	2.16	0.60
38:BQ:10:LEU:HB2	38:BQ:17:ARG:CZ	2.32	0.60
38:BQ:53:HIS:O	38:BQ:56:LYS:HE2	2.02	0.60
39:BR:76:LYS:O	39:BR:80:LEU:HD23	2.01	0.60
40:BS:95:ARG:NH2	40:BS:95:ARG:CB	2.64	0.60
41:BT:88:ILE:HB	42:BU:52:VAL:HG13	1.83	0.60
43:BV:72:LYS:O	43:BV:106:ILE:CG2	2.49	0.60
44:BW:50:LYS:NZ	44:BW:85:PRO:HD2	2.15	0.60
44:BW:5:TYR:CB	48:B1:24:LYS:HD3	2.29	0.60
44:BW:50:LYS:HZ3	44:BW:85:PRO:HG2	1.67	0.60
46:BY:127:LYS:CE	46:BY:165:VAL:HB	2.31	0.60
46:BY:39:VAL:HG13	46:BY:44:PHE:CG	2.36	0.60
26:BC:20:TYR:O	26:BC:225:ASN:HB3	2.01	0.60
2:A1:21:G:H2'	2:A1:22:C:C6	2.37	0.60
1:AA:1171:G:HO2'	1:AA:1172:C:H6	1.49	0.60
34:BM:6:PRO:HA	34:BM:41:ASP:CG	2.21	0.60
38:BQ:60:LEU:HD23	38:BQ:60:LEU:H	1.65	0.60
1:AA:107:G:C6	22:AW:15:ARG:NH2	2.69	0.60
1:AA:1095:U:H5'	1:AA:1109:C:O2	2.01	0.60
1:AA:1196:U:C6	1:AA:1196:U:H3'	2.36	0.60
1:AA:1376:U:O2	1:AA:1377:A:N6	2.35	0.60
1:AA:67:C:H4'	1:AA:172:A:C1'	2.32	0.60
1:AA:130:A:H4'	1:AA:190:G:C4	2.37	0.60
1:AA:227:G:H2'	1:AA:228:A:C8	2.36	0.60
1:AA:229:U:H2'	1:AA:230:G:C8	2.37	0.60
1:AA:404:U:H4'	6:AG:122:ARG:NH1	2.16	0.60
1:AA:538:G:N2	1:AA:539:A:H1'	2.17	0.60
1:AA:594:G:C5	1:AA:595:G:N3	2.69	0.60
1:AA:597:G:H2'	1:AA:598:U:C5'	2.31	0.60
1:AA:599:C:O2'	10:AK:130:GLY:N	2.34	0.60
1:AA:620:C:C4	6:AG:135:LEU:HD22	2.36	0.60
1:AA:877:C:O2'	1:AA:878:G:H5'	2.02	0.60
1:AA:890:G:O2'	1:AA:891:U:C6	2.53	0.60
3:AB:22:G:N7	3:AB:46:G:N2	2.50	0.60
5:AF:156:ARG:NH2	5:AF:160:ALA:O	2.34	0.60
5:AF:48:TYR:HD2	5:AF:48:TYR:O	1.85	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:128:VAL:HG12	6:AG:129:ASN:N	2.17	0.60
6:AG:32:ALA:HB3	6:AG:33:MET:HE3	1.83	0.60
6:AG:65:ARG:HG3	6:AG:72:GLU:OE1	2.01	0.60
7:AH:18:ARG:H	7:AH:26:PHE:HB3	1.65	0.60
9:AJ:87:VAL:HG21	9:AJ:154:TYR:HB2	1.82	0.60
10:AK:119:LEU:HB3	10:AK:124:ALA:HB2	1.83	0.60
10:AK:37:ARG:HD2	10:AK:38:ILE:N	2.16	0.60
10:AK:70:GLN:NE2	10:AK:71:GLY:N	2.47	0.60
10:AK:87:SER:HB3	10:AK:93:VAL:H	1.64	0.60
12:AM:9:ARG:C	12:AM:94:VAL:HG13	2.21	0.60
13:AN:26:ASN:O	13:AN:27:ASN:HB2	2.02	0.60
13:AN:45:GLY:O	13:AN:50:TYR:HB2	2.02	0.60
1:AA:33:A:N3	14:AO:32:PHE:CZ	2.70	0.60
15:AP:13:LYS:HA	15:AP:44:ARG:CZ	2.31	0.60
15:AP:98:VAL:CB	15:AP:110:ARG:HH21	2.14	0.60
20:AU:34:TYR:HD1	20:AU:35:ARG:N	1.99	0.60
20:AU:34:TYR:CD1	20:AU:35:ARG:N	2.69	0.60
21:AV:12:ASP:O	21:AV:16:LEU:HD22	2.01	0.60
48:B1:30:LEU:O	48:B1:33:GLN:N	2.35	0.60
24:BA:111:A:H4'	48:B1:60:ASN:OD1	2.01	0.60
50:B3:8:LYS:HG2	50:B3:9:LEU:N	2.12	0.60
51:B4:4:HIS:CG	51:B4:5:PRO:HD3	2.36	0.60
53:B6:43:THR:CG2	53:B6:46:VAL:HB	2.31	0.60
24:BA:1044:G:C6	24:BA:1112:G:N3	2.70	0.60
24:BA:1138:G:N2	24:BA:1139:G:N3	2.49	0.60
24:BA:123:G:H2'	24:BA:124:G:C8	2.36	0.60
24:BA:1264:G:C6	24:BA:1265:A:C5	2.90	0.60
24:BA:1534:G:H21	24:BA:1537:C:N4	1.99	0.60
24:BA:1554:A:HO2'	24:BA:1555:G:P	2.25	0.60
24:BA:1616:A:H5''	24:BA:1617:C:OP1	2.01	0.60
24:BA:1746:G:H2'	24:BA:1747:G:H8	1.67	0.60
24:BA:1780:A:OP2	24:BA:1782:C:OP1	2.19	0.60
24:BA:188:G:OP2	50:B3:13:ARG:CZ	2.49	0.60
24:BA:1939:U:C2'	24:BA:1940:U:OP1	2.49	0.60
24:BA:1997:G:C2	24:BA:1998:G:C5	2.89	0.60
24:BA:2320:A:C8	24:BA:2320:A:P	2.94	0.60
24:BA:2414:G:H2'	24:BA:2414:G:N3	2.16	0.60
24:BA:2417:C:C2	24:BA:2418:A:C8	2.90	0.60
24:BA:410:G:O6	24:BA:418:G:C6	2.54	0.60
24:BA:534:U:H4'	41:BT:49:HIS:CE1	2.36	0.60
24:BA:974:G:OP2	24:BA:974(A):C:OP2	2.19	0.60
25:BB:57:A:H2'	25:BB:58:A:H5'	1.82	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:105:ILE:O	27:BD:106:ILE:O	2.20	0.60
27:BD:132:PRO:HB2	27:BD:134:ARG:CD	2.32	0.60
27:BD:175:LEU:HD11	27:BD:177:LEU:HB3	1.83	0.60
28:BE:133:LYS:O	28:BE:137:HIS:CE1	2.54	0.60
28:BE:27:LEU:HD12	28:BE:76:ARG:NH1	2.16	0.60
28:BE:49:LEU:HD21	28:BE:75:VAL:CA	2.31	0.60
29:BF:74:ARG:O	29:BF:75:HIS:CB	2.48	0.60
24:BA:2303:G:O2'	30:BG:132:ASN:CG	2.39	0.60
31:BH:110:SER:O	31:BH:112:PRO:CD	2.46	0.60
31:BH:7:LEU:H	31:BH:8:PRO:HD3	1.64	0.60
32:BK:43:ASN:HD22	32:BK:43:ASN:N	2.00	0.60
35:BN:112:MET:O	35:BN:115:VAL:N	2.34	0.60
35:BN:89:ASN:O	35:BN:90:GLN:HB2	2.00	0.60
35:BN:9:GLU:O	35:BN:82:ASN:HA	2.02	0.60
36:BO:114:ILE:HG21	36:BO:134:ALA:HB2	1.83	0.60
36:BO:122:PRO:HB3	36:BO:138:LEU:N	2.16	0.60
36:BO:81:GLN:CG	36:BO:86:LYS:HE3	2.31	0.60
37:BP:104:PHE:O	37:BP:105:GLU:OE2	2.20	0.60
37:BP:16:ARG:NE	37:BP:73:PRO:CD	2.65	0.60
24:BA:1287:A:C8	38:BQ:104:ARG:NH1	2.69	0.60
38:BQ:28:LEU:O	38:BQ:29:LEU:C	2.37	0.60
38:BQ:25:ALA:HA	38:BQ:48:VAL:HG22	1.82	0.60
40:BS:55:ASN:ND2	40:BS:57:PHE:HZ	1.99	0.60
41:BT:70:ARG:HB2	41:BT:70:ARG:NH1	2.16	0.60
42:BU:12:TYR:O	42:BU:13:ARG:HB2	2.00	0.60
43:BV:13:SER:C	43:BV:16:LYS:NZ	2.55	0.60
43:BV:33:ARG:NH2	43:BV:37:ARG:HB3	2.17	0.60
44:BW:35:THR:N	44:BW:38:GLU:HB2	2.17	0.60
32:BK:95:LYS:HG2	32:BK:99:GLU:OE2	2.00	0.60
24:BA:2115:G:C2'	24:BA:2117:A:H62	2.14	0.60
1:AA:1011:G:C2'	1:AA:1012:U:H5'	2.32	0.60
1:AA:1044:A:H2'	1:AA:1045:C:C5'	2.30	0.60
1:AA:1392:G:H2'	1:AA:1393:U:C6	2.36	0.60
1:AA:167:G:H2'	1:AA:168:G:H8	1.67	0.60
1:AA:186:C:O2'	1:AA:186(A):C:H5'	2.00	0.60
1:AA:258:G:O6	1:AA:259:G:O6	2.19	0.60
1:AA:362:G:N3	1:AA:364:A:C8	2.69	0.60
1:AA:405:U:H5''	1:AA:406:G:O4'	2.01	0.60
1:AA:572:A:O2'	1:AA:916:G:O2'	2.11	0.60
1:AA:65:U:H4'	1:AA:66:G:O5'	2.01	0.60
1:AA:703:G:O5'	1:AA:703:G:H8	1.84	0.60
1:AA:791:G:OP2	1:AA:791:G:H3'	2.02	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:790:A:N6	1:AA:791:G:N1	2.49	0.60
1:AA:796:C:C2	1:AA:797:C:C5	2.90	0.60
1:AA:780:A:H2	1:AA:803:G:C6	2.19	0.60
1:AA:90:C:O2'	1:AA:91:C:C5'	2.50	0.60
3:AB:74:C:N4	24:BA:2555:U:N1	2.49	0.60
3:AC:40:C:C2'	3:AC:41:C:C5'	2.74	0.60
4:AE:52:GLU:HG2	4:AE:53:ARG:N	2.16	0.60
6:AG:128:VAL:HG21	6:AG:133:VAL:CB	2.31	0.60
6:AG:176:LEU:HG	6:AG:176:LEU:O	2.01	0.60
6:AG:177:ASP:HB3	6:AG:182:LYS:O	2.02	0.60
6:AG:187:ARG:CZ	6:AG:188:LEU:HG	2.31	0.60
7:AH:88:LYS:CB	7:AH:123:LEU:O	2.50	0.60
1:AA:9:G:H3'	7:AH:126:ARG:HH11	1.66	0.60
7:AH:40:ARG:N	7:AH:68:GLU:OE1	2.35	0.60
9:AJ:71:PRO:CD	9:AJ:100:ALA:HB2	2.31	0.60
10:AK:104:ARG:HB3	10:AK:107:LEU:HG	1.83	0.60
10:AK:95:VAL:HG11	10:AK:133:LEU:HD11	1.84	0.60
10:AK:6:ILE:CD1	10:AK:85:ARG:HD3	2.32	0.60
14:AO:35:GLY:O	14:AO:82:VAL:CG1	2.50	0.60
14:AO:41:ARG:HH12	14:AO:55:VAL:HG11	1.67	0.60
17:AR:40:SER:O	17:AR:43:LEU:HB2	2.02	0.60
18:AS:8:ARG:HD3	18:AS:15:PRO:CA	2.29	0.60
18:AS:20:VAL:HG11	18:AS:32:TYR:CB	2.30	0.60
20:AU:31:LEU:N	20:AU:31:LEU:HD12	2.16	0.60
21:AV:30:LEU:HD21	21:AV:50:ALA:HB2	1.84	0.60
21:AV:45:VAL:CG2	21:AV:67:VAL:HG21	2.27	0.60
22:AW:63:ILE:HD13	22:AW:80:ARG:CB	2.29	0.60
48:B1:16:LEU:O	48:B1:20:VAL:HG12	2.01	0.60
48:B1:41:GLN:O	48:B1:42:ASN:C	2.40	0.60
49:B2:26:LEU:CB	49:B2:35:ARG:HH11	2.14	0.60
49:B2:50:VAL:CG1	49:B2:53:LEU:HB2	2.32	0.60
53:B6:34:ARG:HH22	53:B6:42:LEU:HD23	1.67	0.60
54:B7:5:LYS:HE2	54:B7:7:HIS:HA	1.84	0.60
24:BA:1202:C:N3	24:BA:1203:G:O2'	2.32	0.60
24:BA:1295:C:H2'	24:BA:1296:G:C8	2.37	0.60
24:BA:1603:A:OP1	24:BA:1604:C:OP2	2.19	0.60
24:BA:1634:A:O3'	24:BA:1635:G:C8	2.54	0.60
24:BA:1751:C:O4'	24:BA:2860:A:C2	2.55	0.60
24:BA:1839:G:H1'	24:BA:1927:A:H5'	1.83	0.60
24:BA:1942:C:OP2	24:BA:1943:U:H3'	2.01	0.60
24:BA:1969:A:C5'	24:BA:1970:A:OP1	2.49	0.60
24:BA:2253:G:C5	24:BA:2254:C:C5	2.90	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2357:U:O5'	24:BA:2357:U:H6	1.84	0.60
24:BA:2655:G:C2'	24:BA:2655:G:N3	2.64	0.60
24:BA:2656:U:C2'	24:BA:2656:U:O2	2.47	0.60
24:BA:2716:U:O2'	24:BA:2717:G:H5'	2.01	0.60
24:BA:273:G:H2'	24:BA:273(A):G:H8	1.66	0.60
24:BA:1050:A:C2	24:BA:2751:G:H3'	2.36	0.60
24:BA:298:G:O5'	24:BA:298:G:C8	2.48	0.60
24:BA:482:A:N3	24:BA:482:A:C2'	2.64	0.60
24:BA:573:G:O2'	24:BA:574:C:P	2.59	0.60
24:BA:730:C:H2'	24:BA:731:C:C5	2.35	0.60
24:BA:751:A:H5'	43:BV:90:ARG:CZ	2.31	0.60
24:BA:957:A:N6	24:BA:959:A:C4	2.70	0.60
25:BB:31:C:N3	25:BB:32:C:C5	2.70	0.60
27:BD:145:VAL:O	27:BD:154:LYS:O	2.19	0.60
27:BD:186:HIS:O	27:BD:189:CYS:SG	2.60	0.60
27:BD:133:LEU:HD12	27:BD:187:GLY:HA2	1.83	0.60
27:BD:229:VAL:HG13	27:BD:230:ASP:CG	2.21	0.60
27:BD:256:GLY:O	27:BD:257:LEU:HG	2.02	0.60
27:BD:46:GLN:O	27:BD:48:ARG:N	2.34	0.60
27:BD:7:LYS:HE2	27:BD:25:THR:CG2	2.31	0.60
24:BA:1567:A:N6	27:BD:84:TYR:CD1	2.70	0.60
28:BE:133:LYS:CE	28:BE:137:HIS:HB3	2.32	0.60
28:BE:147:PRO:CD	28:BE:148:GLY:N	2.64	0.60
29:BF:125:LEU:HD22	29:BF:128:ALA:HB2	1.82	0.60
29:BF:34:TRP:C	29:BF:38:ARG:HD2	2.22	0.60
30:BG:170:ARG:HD3	30:BG:174:GLU:CB	2.31	0.60
31:BH:149:ARG:O	31:BH:153:LYS:HB3	2.01	0.60
32:BK:31:LEU:HD21	32:BK:36:ALA:HB3	1.83	0.60
33:BL:134:MET:CE	33:BL:136:VAL:HG23	2.29	0.60
33:BL:131:ALA:HB1	33:BL:136:VAL:HB	1.83	0.60
33:BL:79:ARG:HH12	33:BL:87:GLY:N	2.00	0.60
34:BM:27:ALA:O	34:BM:28:THR:C	2.40	0.60
34:BM:57:ALA:CB	34:BM:124:ALA:HA	2.29	0.60
35:BN:103:ALA:O	35:BN:104:ARG:C	2.39	0.60
36:BO:122:PRO:HD3	36:BO:137:LYS:HB2	1.82	0.60
37:BP:121:ALA:O	37:BP:125:LEU:CG	2.44	0.60
37:BP:16:ARG:CG	37:BP:72:LYS:HB3	2.32	0.60
37:BP:75:THR:CG2	37:BP:77:LYS:HD2	2.29	0.60
38:BQ:57:ARG:CZ	38:BQ:57:ARG:HB3	2.31	0.60
39:BR:71:ARG:N	39:BR:104:GLY:CA	2.64	0.60
24:BA:2378:A:N3	39:BR:20:ARG:NH2	2.50	0.60
40:BS:107:ASP:HB2	40:BS:108:ARG:HD3	1.84	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BS:2:ASN:O	40:BS:5:ALA:HB3	2.02	0.60
40:BS:4:GLY:CA	40:BS:8:LYS:HE3	2.32	0.60
44:BW:63:LYS:HA	44:BW:63:LYS:CE	2.32	0.60
46:BY:127:LYS:HD3	46:BY:165:VAL:CG2	2.31	0.60
46:BY:28:MET:HE1	46:BY:88:PHE:HB2	1.82	0.60
46:BY:94:GLU:CA	46:BY:130:PRO:HB3	2.31	0.60
32:BK:91:SER:CA	32:BK:121:LYS:HD2	2.30	0.60
26:BC:212:VAL:HG12	26:BC:212:VAL:O	2.01	0.60
24:BA:2100:G:H1'	24:BA:2190:G:N2	2.17	0.60
52:B5:54:ILE:HD13	52:B5:54:ILE:C	2.21	0.60
1:AA:1028(B):C:O2	1:AA:1028(B):C:H2'	1.99	0.60
1:AA:1041:A:C6	1:AA:1042:G:N7	2.70	0.60
1:AA:1062:U:C2'	1:AA:1063:C:C6	2.82	0.60
1:AA:1127:G:H21	1:AA:1147:C:H42	1.50	0.60
1:AA:1202:G:H1'	16:AQ:29:ARG:CD	2.31	0.60
1:AA:1251:A:O2'	1:AA:1369:C:O2'	2.09	0.60
1:AA:1320:C:C5	21:AV:37:ARG:NH2	2.70	0.60
1:AA:923:A:O4'	1:AA:1398:A:C2	2.54	0.60
1:AA:254:G:C6	1:AA:273:A:N6	2.69	0.60
1:AA:323:U:C5	1:AA:324:G:H1'	2.37	0.60
1:AA:362:G:N3	1:AA:364:A:H8	1.98	0.60
1:AA:375:U:C3'	18:AS:6:LEU:HD21	2.30	0.60
1:AA:390:C:C4	1:AA:391:G:N7	2.70	0.60
1:AA:49:U:O2'	1:AA:50:A:OP1	2.16	0.60
1:AA:570:G:N2	1:AA:873:A:N1	2.50	0.60
1:AA:667:G:H2'	1:AA:668:G:C8	2.37	0.60
1:AA:687:A:O2'	1:AA:688:G:O5'	2.20	0.60
1:AA:867:G:H2'	1:AA:868:C:H6	1.63	0.60
4:AE:78:GLN:NE2	4:AE:96:ARG:HH12	1.98	0.60
5:AF:149:ALA:HB3	5:AF:170:GLN:HE21	1.67	0.60
5:AF:173:VAL:O	5:AF:175:LEU:N	2.35	0.60
5:AF:30:ARG:CG	5:AF:31:HIS:H	2.09	0.60
5:AF:55:VAL:HG22	5:AF:68:VAL:HG22	1.83	0.60
6:AG:110:PHE:CE1	6:AG:148:VAL:HG23	2.34	0.60
6:AG:59:ARG:C	6:AG:63:LYS:NZ	2.53	0.60
7:AH:103:GLY:C	7:AH:107:ARG:HH12	2.05	0.60
9:AJ:103:TRP:CH2	9:AJ:138:LYS:CA	2.74	0.60
10:AK:1:MET:HG2	10:AK:2:LEU:H	1.66	0.60
10:AK:98:LYS:HG2	10:AK:98:LYS:O	2.01	0.60
10:AK:97:VAL:HG22	10:AK:98:LYS:N	2.14	0.60
11:AL:103:THR:CG2	11:AL:104:ARG:H	2.12	0.60
11:AL:27:THR:HG23	11:AL:30:GLY:O	2.02	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AM:63:PHE:HA	16:AQ:59:ALA:HB2	1.83	0.60
12:AM:69:ASN:O	12:AM:70:ARG:HD3	2.01	0.60
14:AO:7:ILE:HB	14:AO:8:ASN:ND2	2.16	0.60
19:AT:59:ILE:CD1	19:AT:60:ILE:N	2.65	0.60
23:AX:13:ILE:CG2	23:AX:14:TRP:N	2.65	0.60
24:BA:75:G:C4'	48:B1:50:ARG:HH11	2.14	0.60
24:BA:187:G:P	50:B3:13:ARG:HH22	2.24	0.60
50:B3:64:GLY:HA2	50:B3:67:TYR:HD1	1.65	0.60
50:B3:6:HIS:HB2	50:B3:56:VAL:HA	1.84	0.60
43:BV:22:ASP:HB2	51:B4:25:LEU:HD21	1.83	0.60
24:BA:687:C:C5'	53:B6:4:THR:HB	2.22	0.60
24:BA:1227:A:C2'	24:BA:1228:G:H5''	2.32	0.60
24:BA:1301:A:O2'	24:BA:1302:A:C8	2.55	0.60
24:BA:1652:A:H62	24:BA:1653:G:H21	1.50	0.60
24:BA:1775:U:O2'	24:BA:1776:G:C5'	2.47	0.60
24:BA:1825:A:C6	24:BA:1826:G:O6	2.54	0.60
24:BA:1829:A:C2	24:BA:1830:C:H1'	2.35	0.60
1:AA:784:C:C5'	24:BA:1837:C:OP1	2.50	0.60
1:AA:702:A:C2	24:BA:1848:A:C5	2.90	0.60
24:BA:1861:G:H2'	24:BA:1862:G:H5'	1.82	0.60
24:BA:1907:G:H2'	24:BA:1908:C:H6	1.65	0.60
24:BA:1992:G:N7	24:BA:1997:G:C2	2.70	0.60
24:BA:243:U:H2'	24:BA:244:A:H5'	1.82	0.60
24:BA:2445:G:H2'	24:BA:2446:G:N7	2.13	0.60
24:BA:2459:A:N3	24:BA:2460:U:O2'	2.28	0.60
24:BA:2715:C:H2'	24:BA:2716:U:H6	1.67	0.60
24:BA:2866:U:H5''	24:BA:2867:G:OP1	2.01	0.60
24:BA:294:A:H2'	24:BA:295:G:H5'	1.84	0.60
24:BA:32:C:OP1	24:BA:1238:G:H5'	2.02	0.60
24:BA:361:G:H2'	24:BA:362:U:C6	2.36	0.60
24:BA:506:G:H2'	24:BA:507:A:OP2	2.00	0.60
24:BA:601:C:H2'	24:BA:601:C:O2	2.01	0.60
24:BA:686:G:C4'	24:BA:687:C:OP2	2.50	0.60
24:BA:731:C:H5'	24:BA:731:C:H6	1.66	0.60
24:BA:734:A:H2'	24:BA:735:A:O5'	2.01	0.60
24:BA:749:C:H3'	24:BA:749:C:C6	2.36	0.60
24:BA:771:G:C2	24:BA:772:C:C4	2.90	0.60
25:BB:37:C:N4	25:BB:44:G:N1	2.50	0.60
27:BD:118:VAL:H	27:BD:129:ASN:CG	2.05	0.60
27:BD:145:VAL:HB	27:BD:155:LEU:HD22	1.83	0.60
27:BD:228:PRO:HD3	27:BD:235:GLY:HA3	1.83	0.60
27:BD:260:ARG:CB	27:BD:260:ARG:HH11	2.14	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1675:C:C5	28:BE:129:HIS:CD2	2.89	0.60
28:BE:14:ILE:HG22	28:BE:19:ARG:HA	1.82	0.60
28:BE:98:PRO:HB3	28:BE:175:VAL:HG13	1.84	0.60
30:BG:149:VAL:HG13	30:BG:150:ASP:H	1.66	0.60
30:BG:55:LYS:HE2	30:BG:151:ALA:CB	2.29	0.60
30:BG:36:LYS:NZ	30:BG:38:VAL:HG13	2.17	0.60
31:BH:107:VAL:HG13	31:BH:152:ARG:HD2	1.83	0.60
31:BH:125:VAL:O	31:BH:127:GLU:N	2.35	0.60
31:BH:171:LEU:HA	31:BH:172:LYS:NZ	2.17	0.60
31:BH:175:LYS:HG2	31:BH:176:ALA:N	2.15	0.60
31:BH:45:VAL:CG2	31:BH:50:VAL:HG13	2.31	0.60
34:BM:127:ASP:C	34:BM:129:PRO:CD	2.70	0.60
35:BN:24:VAL:HG11	35:BN:32:TYR:H	1.66	0.60
37:BP:67:ARG:NE	37:BP:105:GLU:OE1	2.34	0.60
37:BP:83:MET:O	37:BP:83:MET:CE	2.50	0.60
39:BR:13:ARG:CD	39:BR:90:GLY:O	2.46	0.60
41:BT:3:ARG:O	41:BT:4:ALA:HB2	2.02	0.60
42:BU:41:GLY:H	42:BU:51:VAL:HA	1.67	0.60
43:BV:33:ARG:O	43:BV:37:ARG:HG2	2.02	0.60
43:BV:59:VAL:CG2	43:BV:66:GLU:HB2	2.30	0.60
24:BA:1340:U:C5	44:BW:57:LEU:HG	2.35	0.60
32:BK:73:GLU:HG3	32:BK:138:ILE:HD11	1.84	0.60
26:BC:61:THR:HG21	26:BC:160:ARG:NH2	2.16	0.60
24:BA:1418:G:OP2	24:BA:1418:G:C8	2.54	0.60
1:AA:1017:G:O2'	1:AA:1018:C:H5'	2.01	0.60
24:BA:1870:C:H2'	24:BA:1870:C:O2	2.01	0.60
4:AE:156:LYS:O	4:AE:156:LYS:HG2	2.02	0.60
1:AA:1484:C:C2'	1:AA:1485:U:H5'	2.31	0.60
1:AA:1507:A:C2'	1:AA:1508:G:H5'	2.32	0.60
1:AA:306:G:H8	1:AA:306:G:O5'	1.84	0.60
1:AA:394:G:H2'	1:AA:395:C:C6	2.36	0.60
1:AA:425:G:O2'	1:AA:426:G:H5'	2.00	0.60
1:AA:44:G:C6	1:AA:45:U:C2	2.90	0.60
1:AA:677:U:H2'	1:AA:678:U:H5	1.59	0.60
1:AA:753:A:H5'	1:AA:754:C:C5	2.37	0.60
1:AA:796:C:H2'	1:AA:797:C:H6	1.66	0.60
1:AA:887:G:H2'	1:AA:888:G:H8	1.67	0.60
1:AA:896:C:C2	1:AA:897:C:C5	2.90	0.60
1:AA:95:G:C2'	1:AA:96:G:H5'	2.32	0.60
2:A1:46:U:N3	3:AB:34:G:N1	2.49	0.60
4:AE:87:ARG:C	4:AE:89:GLY:H	2.05	0.60
5:AF:39:ILE:HG21	5:AF:57:ILE:HD13	1.84	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AH:74:GLY:O	7:AH:75:THR:HB	2.01	0.60
8:AI:52:ILE:HG21	8:AI:87:ARG:NH2	2.16	0.60
8:AI:95:GLU:H	8:AI:96:PRO:HD2	1.64	0.60
12:AM:12:ASP:O	12:AM:16:LEU:HD23	2.01	0.60
13:AN:15:ALA:O	13:AN:78:GLN:NE2	2.35	0.60
14:AO:12:ARG:CZ	14:AO:12:ARG:HB3	2.30	0.60
1:AA:529:G:C6	14:AO:49:ASN:CG	2.74	0.60
16:AQ:40:CYS:O	16:AQ:44:LEU:HB2	2.02	0.60
1:AA:1047:G:C5'	16:AQ:4:LYS:HD3	2.32	0.60
12:AM:62:HIS:O	16:AQ:59:ALA:HB3	2.01	0.60
18:AS:56:ALA:O	18:AS:60:LEU:CG	2.50	0.60
19:AT:38:ARG:HG3	19:AT:39:SER:N	2.16	0.60
19:AT:95:TYR:O	19:AT:97:SER:N	2.35	0.60
21:AV:36:ARG:HH21	21:AV:51:VAL:HG12	1.65	0.60
48:B1:66:ASN:CG	48:B1:67:ALA:N	2.55	0.60
50:B3:18:CYS:SG	50:B3:33:VAL:HG21	2.42	0.60
24:BA:387:U:H3'	50:B3:29:PRO:HB3	1.84	0.60
50:B3:33:VAL:CG1	50:B3:35:VAL:HG23	2.31	0.60
52:B5:17:LYS:NZ	52:B5:50:ARG:CB	2.64	0.60
54:B7:25:MET:O	54:B7:27:THR:CG2	2.45	0.60
24:BA:1179:C:C2	24:BA:1180:C:C5	2.90	0.60
24:BA:1243:G:C6	24:BA:1244:G:C5	2.89	0.60
24:BA:1363:C:N3	24:BA:1369:G:C6	2.70	0.60
24:BA:1475:G:N7	24:BA:1517:G:N2	2.48	0.60
24:BA:1604:C:O2	24:BA:1605:C:C5	2.55	0.60
24:BA:1613:G:P	53:B6:5:TRP:HD1	2.24	0.60
24:BA:1324:G:O2'	24:BA:1616:A:C6	2.54	0.60
24:BA:1617:C:C2'	24:BA:1617:C:O2	2.48	0.60
24:BA:1792:G:O2'	24:BA:1830:C:OP1	2.18	0.60
24:BA:1830:C:C2	24:BA:1831:G:C8	2.90	0.60
24:BA:2043:C:O2'	24:BA:2044:C:H5'	2.02	0.60
24:BA:2043:C:O2'	24:BA:2044:C:O5'	2.20	0.60
24:BA:2251:G:N1	24:BA:2252:G:C2	2.70	0.60
24:BA:2321:G:N3	24:BA:2321:G:H2'	2.16	0.60
24:BA:2336:A:O2'	24:BA:2337:G:OP1	2.18	0.60
24:BA:2393:A:H2'	24:BA:2394:C:H6	1.66	0.60
24:BA:2408:U:O2	24:BA:2409:G:C8	2.54	0.60
24:BA:2415:G:N2	24:BA:2416:C:C2	2.69	0.60
24:BA:2051:A:C5'	24:BA:2578:G:H5''	2.28	0.60
24:BA:2653:U:H2'	24:BA:2654:A:N7	2.16	0.60
24:BA:2533:A:C5'	24:BA:2665:A:H5'	2.31	0.60
24:BA:270(U):C:H2'	24:BA:270(V):G:H1'	1.82	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:374:A:C2	24:BA:375:C:H1'	2.36	0.60
24:BA:501:A:C5	24:BA:502:A:N1	2.70	0.60
24:BA:602:G:N2	24:BA:655:A:H3'	2.15	0.60
24:BA:653:A:C5'	24:BA:654:A:H4'	2.32	0.60
24:BA:756:C:C2'	24:BA:757:U:H5'	2.30	0.60
24:BA:886:C:H5''	24:BA:887:A:OP1	2.01	0.60
25:BB:116:G:N3	25:BB:117:G:H1'	2.17	0.60
27:BD:96:HIS:CD2	27:BD:102:LYS:HE2	2.36	0.60
27:BD:132:PRO:HG2	27:BD:135:PHE:CD1	2.37	0.60
27:BD:169:GLU:CB	27:BD:184:LYS:NZ	2.62	0.60
24:BA:2597:G:H5'	27:BD:242:ARG:NE	2.16	0.60
27:BD:242:ARG:O	27:BD:244:ARG:N	2.34	0.60
27:BD:7:LYS:NZ	27:BD:91:ARG:NE	2.50	0.60
24:BA:2052:G:C1'	28:BE:150:VAL:HG23	2.32	0.60
29:BF:39:TRP:HE3	29:BF:99:TYR:HB3	1.66	0.60
30:BG:119:GLY:HA3	30:BG:180:PHE:CE1	2.37	0.60
30:BG:139:LEU:O	30:BG:139:LEU:HD22	2.02	0.60
30:BG:118:ARG:O	30:BG:180:PHE:CE1	2.54	0.60
30:BG:77:ILE:HD12	30:BG:83:ARG:NH1	2.16	0.60
30:BG:77:ILE:O	30:BG:83:ARG:CZ	2.49	0.60
35:BN:11:ALA:HB2	35:BN:17:ARG:CD	2.31	0.60
35:BN:70:LYS:NZ	35:BN:103:ALA:HB3	2.16	0.60
36:BO:122:PRO:HD3	36:BO:137:LYS:CB	2.32	0.60
36:BO:130:PHE:N	36:BO:130:PHE:HD2	2.00	0.60
37:BP:58:PHE:C	37:BP:60:ARG:N	2.55	0.60
41:BT:113:ALA:O	41:BT:116:ALA:HB3	2.01	0.60
42:BU:40:LEU:CD2	42:BU:51:VAL:O	2.44	0.60
47:BZ:72:ARG:O	47:BZ:73:GLY:C	2.39	0.60
47:BZ:49:LYS:N	47:BZ:80:HIS:CE1	2.67	0.60
32:BK:91:SER:HB2	32:BK:119:PRO:HB2	1.83	0.60
24:BA:2135:A:C5'	24:BA:2136:C:H5	2.15	0.60
26:BC:28:LEU:O	26:BC:32:LEU:HG	2.02	0.60
24:BA:1588:C:H2'	24:BA:1589:C:H6	1.65	0.60
2:A1:37:U:H2'	2:A1:38:U:C2	2.37	0.60
1:AA:1224:G:H2'	1:AA:1225:A:OP1	2.01	0.60
1:AA:1431:C:H5''	40:BS:110:ILE:HD13	1.84	0.60
1:AA:1466:C:H3'	1:AA:1467:G:C8	2.37	0.60
1:AA:1468:A:C8	1:AA:1469:G:C8	2.90	0.60
1:AA:815:A:C2	1:AA:1529:G:C2	2.89	0.60
1:AA:224:C:H2'	1:AA:225:C:H6	1.66	0.60
1:AA:306:G:N3	1:AA:307:C:C6	2.69	0.60
1:AA:44:G:H2'	1:AA:45:U:C5'	2.32	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:657:G:H2'	1:AA:658:G:C5'	2.30	0.60
1:AA:766:A:C2	1:AA:767:A:H1'	2.37	0.60
1:AA:818:G:H3'	1:AA:819:A:H5''	1.84	0.60
1:AA:818:G:N3	1:AA:820:U:C5	2.69	0.60
1:AA:951:G:N2	1:AA:952:U:C2	2.70	0.60
1:AA:953:G:H1'	15:AP:125:ARG:C	2.21	0.60
3:AD:37:A:H61	9:AJ:79:ARG:NH2	1.99	0.60
3:AD:3:C:H2'	3:AD:4:C:C6	2.36	0.60
3:AD:74:C:OP2	50:B3:22:ILE:HG12	2.02	0.60
4:AE:102:LEU:HD22	4:AE:176:GLU:OE1	2.02	0.60
4:AE:112:VAL:HG13	4:AE:149:LEU:HD21	1.84	0.60
4:AE:124:SER:OG	4:AE:125:PRO:HD2	2.02	0.60
4:AE:166:ASP:OD1	4:AE:205:ASP:OD2	2.20	0.60
4:AE:97:TRP:HB3	4:AE:172:ILE:HD12	1.83	0.60
5:AF:142:MET:CB	5:AF:149:ALA:HB2	2.32	0.60
5:AF:157:ILE:O	5:AF:157:ILE:HG22	2.00	0.60
5:AF:12:LEU:O	5:AF:17:ASP:OD2	2.19	0.60
5:AF:91:LEU:CD2	5:AF:92:ALA:N	2.64	0.60
6:AG:139:ARG:HG2	6:AG:140:VAL:H	1.66	0.60
1:AA:923:A:C5'	7:AH:21:ALA:HB2	2.32	0.60
7:AH:80:ILE:HD11	7:AH:91:LEU:HB3	1.83	0.60
10:AK:38:ILE:CA	10:AK:41:ARG:HB2	2.32	0.60
13:AN:54:ARG:O	13:AN:56:GLY:N	2.35	0.60
15:AP:97:PRO:HG2	15:AP:103:THR:CG2	2.09	0.60
1:AA:376:G:OP1	18:AS:6:LEU:HD13	2.00	0.60
21:AV:37:ARG:O	21:AV:70:LYS:HE2	2.02	0.60
1:AA:191:G:C1'	22:AW:105:SER:HA	2.25	0.60
49:B2:16:PRO:HG2	49:B2:19:GLN:CB	2.31	0.60
50:B3:52:THR:CG2	50:B3:53:GLU:N	2.53	0.60
51:B4:35:GLU:CD	51:B4:51:TYR:CE2	2.75	0.60
53:B6:17:GLY:O	53:B6:21:ARG:NH2	2.34	0.60
53:B6:43:THR:C	53:B6:46:VAL:H	2.06	0.60
24:BA:1048:A:P	24:BA:1110:G:H22	2.25	0.60
24:BA:1155:A:OP2	24:BA:1155:A:H3'	2.02	0.60
24:BA:1241:A:O2'	24:BA:1242:A:P	2.59	0.60
24:BA:1248:G:O2'	24:BA:1249:U:OP1	2.14	0.60
24:BA:1341:U:O4	24:BA:1395:A:C2	2.54	0.60
24:BA:1427:A:C8	24:BA:1427:A:OP1	2.55	0.60
24:BA:1449:A:C2	24:BA:1449(A):G:C1'	2.85	0.60
24:BA:1747:G:O2'	24:BA:1748:G:H5'	2.02	0.60
24:BA:1783:A:H8	24:BA:1783:A:OP2	1.84	0.60
24:BA:1912:A:N1	24:BA:1919:A:H1'	2.17	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1769:G:C6	24:BA:1984:G:C6	2.89	0.60
24:BA:1996:C:C5'	24:BA:1996:C:C6	2.76	0.60
24:BA:1266:G:HO2'	24:BA:2012:G:H1	1.29	0.60
24:BA:2020:A:N6	24:BA:2022:U:C2	2.70	0.60
24:BA:574:C:C1'	24:BA:2055:C:H5	2.14	0.60
24:BA:2403:C:O2'	24:BA:2404:C:H5'	2.02	0.60
24:BA:2059:A:H2	24:BA:2503:A:H62	1.42	0.60
24:BA:251:A:P	24:BA:251:A:H3'	2.41	0.60
24:BA:2537:U:N3	24:BA:2538:C:N4	2.50	0.60
24:BA:2630:G:C5	24:BA:2894:G:O6	2.54	0.60
24:BA:2688:U:C2'	24:BA:2688:U:O2	2.46	0.60
24:BA:2743:C:C2	24:BA:2762:G:C2	2.90	0.60
24:BA:2797:U:O3'	24:BA:2798:C:H4'	2.02	0.60
24:BA:283:A:C2'	24:BA:284:U:H5'	2.32	0.60
24:BA:290:G:H2'	24:BA:291:C:O5'	2.01	0.60
24:BA:293:U:H2'	24:BA:294:A:H8	1.65	0.60
24:BA:371:A:H62	24:BA:424:G:H4'	1.66	0.60
24:BA:403:U:H5''	24:BA:404:C:OP1	2.01	0.60
24:BA:219:G:O6	24:BA:428:A:OP1	2.19	0.60
24:BA:4:C:H2'	24:BA:5:A:H8	1.66	0.60
24:BA:565:C:C2'	24:BA:565:C:O2	2.50	0.60
24:BA:612:G:H4'	24:BA:616:A:N1	2.16	0.60
24:BA:626:U:H2'	24:BA:626:U:O2	2.00	0.60
24:BA:816:C:O2'	24:BA:817:C:H5'	2.02	0.60
24:BA:822:U:OP2	24:BA:945:A:H5'	2.01	0.60
24:BA:569:U:P	24:BA:945:A:N6	2.75	0.60
24:BA:990:A:N6	24:BA:1186:G:H1'	2.16	0.60
25:BB:65:C:H2'	25:BB:66:A:H5'	1.84	0.60
25:BB:71:C:C3'	25:BB:72:G:H5'	2.31	0.60
24:BA:2597:G:O4'	27:BD:242:ARG:CZ	2.49	0.60
28:BE:197:ILE:N	28:BE:197:ILE:CD1	2.60	0.60
28:BE:50:GLY:C	28:BE:76:ARG:NE	2.46	0.60
24:BA:590:A:H5'	29:BF:93:LYS:NZ	2.17	0.60
29:BF:95:ARG:CZ	29:BF:96:ASP:O	2.49	0.60
30:BG:57:ALA:O	30:BG:58:GLN:C	2.40	0.60
30:BG:44:GLY:N	30:BG:88:ILE:HG21	2.17	0.60
31:BH:17:VAL:CG2	31:BH:45:VAL:HG21	2.32	0.60
33:BL:91:PRO:HG3	33:BL:133:SER:O	2.02	0.60
34:BM:24:GLY:O	34:BM:27:ALA:HB3	2.02	0.60
35:BN:122:LEU:OXT	40:BS:74:ARG:NH2	2.35	0.60
35:BN:23:ARG:H	35:BN:23:ARG:HD3	1.67	0.60
35:BN:3:GLN:HE22	35:BN:33:ALA:HB3	0.68	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BN:18:LYS:CB	35:BN:45:GLU:HG3	2.24	0.60
37:BP:102:VAL:O	37:BP:102:VAL:CG1	2.50	0.60
37:BP:6:ARG:HE	37:BP:8:LYS:CG	2.14	0.60
38:BQ:97:VAL:HG13	38:BQ:114:VAL:CG2	2.30	0.60
39:BR:49:VAL:HG21	39:BR:80:LEU:HG	1.82	0.60
40:BS:24:PRO:HG2	40:BS:25:GLY:N	2.12	0.60
40:BS:24:PRO:CG	40:BS:25:GLY:H	2.09	0.60
40:BS:30:VAL:HG22	40:BS:32:TYR:HE2	1.58	0.60
40:BS:92:GLY:HA2	40:BS:93:ARG:CZ	2.31	0.60
41:BT:98:LEU:CB	41:BT:105:VAL:HG11	2.31	0.60
42:BU:15:GLU:HB3	42:BU:16:PRO:CD	2.32	0.60
42:BU:89:GLN:HG2	42:BU:91:TYR:CD1	2.37	0.60
44:BW:51:VAL:HG13	44:BW:81:VAL:HG21	1.83	0.60
32:BK:98:ALA:O	32:BK:102:SER:HB2	2.02	0.60
33:BL:14:ALA:CB	33:BL:48:MET:O	2.49	0.60
1:AA:1049:U:C4	16:AQ:3:ARG:HB2	2.37	0.60
1:AA:1069:C:N4	1:AA:1094:G:O6	2.35	0.60
1:AA:1116:C:H2'	1:AA:1117:G:C8	2.37	0.60
1:AA:123:C:OP1	1:AA:311:C:O2'	2.20	0.60
1:AA:12:U:C2	1:AA:13:U:O4	2.55	0.60
1:AA:1300:G:C2	1:AA:1335:C:C2	2.90	0.60
1:AA:1305:G:H5''	23:AX:4:GLY:C	2.22	0.60
1:AA:28:G:O2'	1:AA:296:U:OP1	2.15	0.60
1:AA:438:G:N2	1:AA:495:A:C8	2.68	0.60
1:AA:483:C:N4	1:AA:484:G:C2	2.70	0.60
1:AA:557:G:H2'	1:AA:558:G:C1'	2.32	0.60
1:AA:55:A:C2	1:AA:56:U:H1'	2.37	0.60
1:AA:620:C:N3	6:AG:135:LEU:HD22	2.17	0.60
1:AA:632:A:C4	1:AA:633:G:C8	2.89	0.60
1:AA:775:G:H2'	1:AA:776:G:N7	2.15	0.60
1:AA:781:A:HO2'	1:AA:782:A:P	2.25	0.60
1:AA:892:A:O2'	1:AA:893:C:H5'	2.02	0.60
1:AA:955:U:C2	1:AA:956:U:H5	2.20	0.60
1:AA:992:U:H5'	1:AA:993:G:C8	2.37	0.60
4:AE:97:TRP:CE3	4:AE:172:ILE:HB	2.36	0.60
5:AF:91:LEU:CD1	5:AF:99:VAL:H	2.14	0.60
7:AH:70:PRO:HG2	7:AH:143:ARG:HB3	1.84	0.60
7:AH:78:HIS:ND1	10:AK:104:ARG:HD3	2.17	0.60
8:AI:77:ARG:O	8:AI:81:ILE:HG13	2.02	0.60
9:AJ:107:ALA:HB3	9:AJ:123:GLU:OE1	2.02	0.60
10:AK:70:GLN:CB	10:AK:73:ASP:O	2.50	0.60
10:AK:84:ARG:CB	10:AK:84:ARG:HH11	1.99	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AN:23:ALA:HB1	13:AN:88:GLY:HA3	1.82	0.60
13:AN:87:THR:HG22	13:AN:91:ARG:NH2	2.16	0.60
18:AS:28:ARG:NH1	18:AS:29:ASP:OD2	2.35	0.60
22:AW:49:ALA:CB	22:AW:99:LEU:HG	2.32	0.60
44:BW:7:VAL:CG2	48:B1:31:ARG:NH2	2.65	0.60
50:B3:26:SER:O	50:B3:27:THR:HG23	2.02	0.60
51:B4:9:LYS:O	51:B4:10:LYS:HG2	2.02	0.60
55:B8:1:MET:H3	55:B8:33:LYS:HB2	1.66	0.60
55:B8:9:ARG:HE	55:B8:16:VAL:HB	1.66	0.60
24:BA:1246:A:N6	24:BA:1247:A:C6	2.70	0.60
24:BA:1291:C:O2'	24:BA:1292:U:H5'	2.02	0.60
24:BA:1366:A:H5'	50:B3:1:MET:H1	1.67	0.60
24:BA:1471:A:C8	24:BA:1521:G:N2	2.70	0.60
24:BA:1525:G:N2	24:BA:1526:G:H1'	2.17	0.60
24:BA:1525:G:O2'	24:BA:1526:G:H5'	2.02	0.60
24:BA:1655:A:C2	24:BA:1656:C:H1'	2.37	0.60
24:BA:1830:C:N3	24:BA:1831:G:N7	2.50	0.60
24:BA:1944:U:H2'	24:BA:1945:G:OP1	2.02	0.60
24:BA:198:C:O2'	24:BA:199:A:C8	2.44	0.60
24:BA:2194:G:H2'	24:BA:2195:C:C5	2.36	0.60
24:BA:2230:G:H2'	24:BA:2231:C:H6	1.65	0.60
24:BA:223:A:H4'	24:BA:223:A:OP2	2.02	0.60
24:BA:2403:C:N4	24:BA:2415:G:C6	2.69	0.60
24:BA:2446:G:O2'	24:BA:2448:A:C5'	2.50	0.60
24:BA:2637:U:OP2	24:BA:2637:U:O4'	2.20	0.60
24:BA:2691:C:O2'	24:BA:2692:C:H5'	2.02	0.60
24:BA:2714:G:O6	24:BA:2715:C:N4	2.35	0.60
24:BA:2821:A:H2'	24:BA:2822:G:O4'	2.01	0.60
24:BA:2824:C:N4	24:BA:2825:C:O2	2.35	0.60
24:BA:2865:U:O4	24:BA:2866:U:H5	1.85	0.60
24:BA:2876:G:H2'	24:BA:2877:G:C8	2.37	0.60
24:BA:316:C:H6	24:BA:316:C:OP2	1.84	0.60
24:BA:404:C:H5'	24:BA:406:G:O4'	2.01	0.60
24:BA:414:C:H1'	24:BA:1864:U:C1'	2.32	0.60
24:BA:452:G:N7	24:BA:453:C:C5	2.70	0.60
24:BA:511:U:OP2	24:BA:512:G:N7	2.35	0.60
24:BA:513:A:C2	24:BA:514:A:C8	2.90	0.60
24:BA:625:G:O6	36:BO:100:LEU:HB3	2.02	0.60
24:BA:729:G:N7	24:BA:730:C:C6	2.70	0.60
24:BA:76:C:H4'	48:B1:54:ARG:HG2	1.83	0.60
24:BA:831:G:N1	24:BA:832:G:C4	2.70	0.60
27:BD:247:ALA:O	27:BD:248:SER:C	2.40	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:84:TYR:CB	27:BD:91:ARG:HG3	2.32	0.60
28:BE:186:GLY:C	28:BE:188:VAL:H	2.04	0.60
28:BE:4:ILE:O	28:BE:27:LEU:HB2	2.02	0.60
30:BG:125:PHE:CZ	30:BG:130:ASN:HB2	2.37	0.60
24:BA:2311:A:H2	30:BG:45:GLU:HG2	1.66	0.60
30:BG:47:LYS:HB3	30:BG:72:ARG:O	2.02	0.60
30:BG:49:ASP:C	30:BG:53:LEU:HD22	2.22	0.60
32:BK:25:TYR:HD2	32:BK:25:TYR:H	1.47	0.60
37:BP:38:GLU:OE2	37:BP:38:GLU:N	2.35	0.60
24:BA:1654:A:OP1	38:BQ:3:HIS:CE1	2.55	0.60
38:BQ:63:ARG:O	38:BQ:64:ARG:C	2.39	0.60
40:BS:109:GLU:CB	40:BS:114:LEU:HD21	2.32	0.60
41:BT:111:GLU:O	41:BT:114:LYS:HG2	2.01	0.60
41:BT:53:ARG:NH1	41:BT:53:ARG:CB	2.62	0.60
42:BU:4:ILE:CG1	42:BU:13:ARG:HG2	2.32	0.60
24:BA:1334:G:C5'	44:BW:65:ARG:HH12	2.14	0.60
45:BX:45:VAL:CA	45:BX:57:GLN:HG2	2.32	0.60
46:BY:161:VAL:CG1	46:BY:162:GLU:H	2.15	0.60
46:BY:151:HIS:CG	46:BY:168:GLU:HG2	2.37	0.60
46:BY:18:LEU:HD22	46:BY:23:LYS:HD3	1.84	0.60
46:BY:82:ARG:HG3	46:BY:83:PRO:N	2.17	0.60
24:BA:2173:A:H2'	24:BA:2174:C:O4'	2.02	0.60
24:BA:1114:G:C2	24:BA:1115:G:C1'	2.84	0.60
1:AA:121:C:H5'	1:AA:122:G:OP1	2.02	0.59
1:AA:1349:A:OP1	11:AL:120:ARG:HB2	2.02	0.59
1:AA:1419:G:HO2'	1:AA:1420:C:H6	1.47	0.59
1:AA:302:G:O2'	1:AA:556:C:H5''	2.02	0.59
1:AA:678:U:C2	1:AA:679:C:C5	2.90	0.59
1:AA:678:U:H2'	1:AA:679:C:C5	2.35	0.59
1:AA:719:C:H2'	1:AA:720:C:O4'	2.02	0.59
3:AB:20:U:H3'	3:AB:21:A:C5'	2.32	0.59
4:AE:131:PRO:O	4:AE:134:GLU:N	2.35	0.59
4:AE:179:LYS:C	4:AE:181:PHE:N	2.53	0.59
4:AE:75:LYS:O	4:AE:77:ALA:N	2.34	0.59
5:AF:124:ILE:HD11	5:AF:130:VAL:HG13	1.83	0.59
6:AG:114:ARG:HG3	6:AG:114:ARG:HH11	1.66	0.59
6:AG:172:PRO:HG3	6:AG:193:ASP:HB3	1.83	0.59
6:AG:80:GLU:O	6:AG:83:SER:N	2.34	0.59
9:AJ:72:ARG:HG2	9:AJ:142:GLU:OE1	2.02	0.59
10:AK:104:ARG:CB	10:AK:107:LEU:HG	2.32	0.59
10:AK:10:LEU:CD1	10:AK:85:ARG:HB2	2.32	0.59
13:AN:87:THR:CG2	13:AN:91:ARG:HH22	2.14	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AO:100:ILE:O	14:AO:101:VAL:HG13	2.01	0.59
1:AA:1308:U:P	15:AP:99:ARG:HG3	2.42	0.59
17:AR:39:LEU:C	17:AR:39:LEU:HD23	2.22	0.59
17:AR:36:ILE:HG13	17:AR:59:MET:CE	2.30	0.59
1:AA:564:C:C5	19:AT:31:LEU:HD11	2.37	0.59
1:AA:130:A:OP2	19:AT:63:ARG:NH2	2.35	0.59
21:AV:30:LEU:HD11	21:AV:50:ALA:HB2	1.84	0.59
15:AP:87:TYR:HB3	21:AV:73:GLU:HB2	1.84	0.59
22:AW:76:ALA:O	22:AW:79:ARG:HG2	2.02	0.59
52:B5:19:ARG:CB	52:B5:43:CYS:SG	2.90	0.59
24:BA:980:A:N6	24:BA:1135:C:H5'	2.17	0.59
24:BA:1154:G:O2'	24:BA:1155:A:H5'	2.02	0.59
24:BA:819:A:H62	24:BA:1188:U:H3	1.49	0.59
24:BA:1223:C:C6	24:BA:1227:A:N1	2.70	0.59
24:BA:1258:C:O2'	24:BA:1259:G:H5'	2.01	0.59
24:BA:1264:G:N7	24:BA:1265:A:N9	2.50	0.59
24:BA:1270:C:O5'	24:BA:1270:C:H6	1.84	0.59
24:BA:1295:C:H2'	24:BA:1296:G:H8	1.67	0.59
24:BA:143:C:H2'	24:BA:144:C:C6	2.37	0.59
24:BA:1464:C:C5'	24:BA:1528:A:O2'	2.50	0.59
24:BA:1618:A:OP1	24:BA:1618:A:C8	2.54	0.59
24:BA:1630:G:C5	24:BA:1630(A):C:C5	2.90	0.59
24:BA:1631:A:N1	24:BA:1632:A:C2	2.70	0.59
24:BA:1703:G:N2	24:BA:1704:G:N3	2.50	0.59
24:BA:1806:C:N3	24:BA:1807:G:C8	2.70	0.59
24:BA:1813:G:O2'	27:BD:46:GLN:CG	2.49	0.59
24:BA:1956:U:C2'	24:BA:1957:C:H6	2.09	0.59
24:BA:1992:G:C4'	24:BA:1993:U:C4	2.85	0.59
24:BA:2022:U:O2'	24:BA:2034:U:C2	2.51	0.59
24:BA:2091:U:O4	24:BA:2092:U:C4	2.55	0.59
24:BA:2287:A:O2'	24:BA:2288:A:O5'	2.16	0.59
24:BA:2373:G:OP2	24:BA:2373:G:H8	1.84	0.59
24:BA:2436:G:C6	24:BA:2437:U:N3	2.70	0.59
24:BA:2455:G:C6	24:BA:2456:C:N4	2.70	0.59
24:BA:2543:G:C6	24:BA:2544:G:C6	2.90	0.59
24:BA:2696:U:H2'	24:BA:2697:G:O5'	2.02	0.59
24:BA:383:U:C2	24:BA:385:C:N4	2.70	0.59
24:BA:424:G:H21	24:BA:425:G:H1'	1.67	0.59
24:BA:444:C:O3'	41:BT:2:PRO:HG2	2.02	0.59
24:BA:586:A:OP1	29:BF:89:VAL:CG2	2.49	0.59
24:BA:612:G:H21	24:BA:617:G:H1	1.50	0.59
24:BA:637:A:N3	24:BA:651:G:H4'	2.17	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:704:G:H22	24:BA:726:G:C2'	2.14	0.59
24:BA:709:U:H2'	24:BA:710:G:H8	1.65	0.59
24:BA:70:G:OP1	24:BA:112:U:O4	2.20	0.59
24:BA:772:C:H4'	27:BD:48:ARG:HD3	1.83	0.59
24:BA:822:U:C2	24:BA:823:G:C8	2.89	0.59
24:BA:909:A:H2'	24:BA:912:C:C5	2.37	0.59
24:BA:933:A:C2	24:BA:934:G:C8	2.90	0.59
25:BB:73:A:C8	25:BB:104:A:C6	2.90	0.59
25:BB:74:U:O2	46:BY:34:ASN:ND2	2.35	0.59
25:BB:9:G:H4'	39:BR:43:GLU:CD	2.21	0.59
27:BD:174:ILE:HD12	27:BD:184:LYS:HE3	1.84	0.59
27:BD:208:LYS:HZ1	27:BD:211:ARG:HH21	1.50	0.59
27:BD:61:LEU:C	27:BD:62:TYR:CG	2.75	0.59
28:BE:115:GLY:C	28:BE:117:MET:N	2.54	0.59
28:BE:58:ARG:HH11	28:BE:75:VAL:HG13	1.66	0.59
28:BE:81:ILE:CG2	28:BE:82:ARG:N	2.64	0.59
31:BH:153:LYS:H	31:BH:154:PRO:CD	2.15	0.59
36:BO:113:LYS:CA	36:BO:129:ALA:CB	2.80	0.59
37:BP:12:GLN:NE2	37:BP:13:GLN:CG	2.62	0.59
40:BS:95:ARG:HB3	40:BS:96:ARG:HD2	1.84	0.59
41:BT:14:HIS:CD2	41:BT:36:ARG:HH12	2.20	0.59
41:BT:58:ARG:HH11	41:BT:58:ARG:HG3	1.65	0.59
41:BT:83:LEU:C	41:BT:86:ALA:HB3	2.22	0.59
42:BU:68:LYS:HZ3	42:BU:95:LEU:HD13	1.66	0.59
43:BV:14:PRO:N	43:BV:78:GLU:OE1	2.35	0.59
44:BW:21:PHE:HE2	44:BW:27:THR:N	1.96	0.59
24:BA:1313:U:P	44:BW:63:LYS:HD2	2.41	0.59
45:BX:12:THR:CG2	45:BX:13:VAL:H	2.05	0.59
45:BX:21:LYS:HB2	45:BX:23:ARG:NH1	2.17	0.59
46:BY:98:MET:O	46:BY:125:LEU:O	2.19	0.59
1:AA:1025:U:H2'	1:AA:1026:G:N7	2.17	0.59
1:AA:1209:C:C2'	1:AA:1210:C:H5'	2.32	0.59
1:AA:129(A):G:N2	1:AA:191(A):G:N7	2.50	0.59
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.37	0.59
1:AA:1451:A:H5''	1:AA:1452:C:H5	1.67	0.59
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.02	0.59
1:AA:190:G:O2'	1:AA:191(A):G:P	2.60	0.59
1:AA:285:G:O2'	1:AA:286:G:H5'	2.03	0.59
1:AA:296:U:O2	1:AA:302:G:C2	2.55	0.59
1:AA:425:G:C2'	1:AA:426:G:H5'	2.32	0.59
1:AA:961:U:O2'	1:AA:962:C:C5'	2.48	0.59
4:AE:115:LEU:HD12	4:AE:115:LEU:O	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:170:GLU:O	4:AE:171:ALA:C	2.40	0.59
5:AF:110:ASN:CB	5:AF:144:SER:OG	2.50	0.59
5:AF:47:LEU:HD11	5:AF:83:ARG:HH21	1.67	0.59
9:AJ:31:MET:CG	9:AJ:32:ARG:H	2.15	0.59
10:AK:9:MET:O	10:AK:13:ILE:CG1	2.50	0.59
12:AM:65:LEU:HD13	16:AQ:36:PHE:CZ	2.37	0.59
13:AN:20:TYR:O	13:AN:30:VAL:HA	2.03	0.59
15:AP:102:ARG:O	15:AP:104:ARG:N	2.31	0.59
15:AP:52:GLU:HA	15:AP:55:ARG:HD3	1.82	0.59
1:AA:1358:U:H5'	16:AQ:34:TYR:HA	1.83	0.59
17:AR:71:GLN:O	17:AR:75:PRO:HD3	2.01	0.59
19:AT:104:LYS:CD	19:AT:105:ALA:H	2.15	0.59
8:AI:62:TRP:CB	20:AU:35:ARG:HH12	2.15	0.59
1:AA:719:C:O2	20:AU:50:ILE:HG13	2.02	0.59
22:AW:28:ALA:O	22:AW:31:SER:OG	2.13	0.59
23:AX:14:TRP:CZ3	23:AX:15:ARG:NE	2.70	0.59
50:B3:20:ASN:HB2	50:B3:30:GLU:OE2	2.01	0.59
54:B7:26:LYS:HD2	54:B7:43:GLN:C	2.21	0.59
55:B8:19:ARG:HD2	55:B8:24:TYR:CG	2.38	0.59
24:BA:1069:A:H4'	24:BA:1070:A:H3'	1.83	0.59
24:BA:1239:G:H2'	24:BA:1240:U:O4'	2.01	0.59
24:BA:1343:G:H21	24:BA:1405:U:H1'	1.65	0.59
24:BA:1389:G:H5'	24:BA:1525:G:C5'	2.31	0.59
24:BA:1389:G:H5'	24:BA:1525:G:H5''	1.82	0.59
24:BA:1472:A:N7	24:BA:1474:C:C4	2.70	0.59
24:BA:1523:U:H2'	24:BA:1524:G:O4'	2.01	0.59
24:BA:1528:A:N7	24:BA:1529:A:N1	2.50	0.59
24:BA:1709:U:H2'	24:BA:1710:C:C6	2.37	0.59
24:BA:1784:A:H1'	24:BA:1785:A:N7	2.16	0.59
24:BA:1857:G:C8	24:BA:1858:G:N7	2.69	0.59
24:BA:187:G:OP1	50:B3:13:ARG:NH2	2.35	0.59
24:BA:2058:A:C2	24:BA:2059:A:N7	2.70	0.59
24:BA:2283:C:C4	24:BA:2389:G:N2	2.70	0.59
24:BA:241:A:O4'	24:BA:241:A:OP1	2.20	0.59
24:BA:2712:U:C2'	24:BA:2712(A):A:C5'	2.79	0.59
24:BA:1999:C:H5''	24:BA:2723:C:O2'	2.02	0.59
24:BA:2541:A:H2	24:BA:2765:A:N6	2.00	0.59
24:BA:2773:C:H2'	24:BA:2774:C:H6	1.67	0.59
24:BA:28:A:H1'	24:BA:513:A:C6	2.36	0.59
24:BA:450:G:H8	24:BA:450:G:O5'	1.85	0.59
24:BA:680:G:O2'	24:BA:681:G:H5'	2.02	0.59
24:BA:783:A:O2'	24:BA:784:A:P	2.60	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:919:G:H2'	24:BA:920:G:C8	2.29	0.59
24:BA:936:C:H2'	24:BA:937:U:C6	2.37	0.59
24:BA:961:C:O2'	24:BA:962:G:P	2.59	0.59
25:BB:12:C:C4'	47:BZ:74:ARG:HG2	2.31	0.59
25:BB:99:A:C4	25:BB:100:G:C8	2.91	0.59
27:BD:21:PHE:HB3	27:BD:205:VAL:HG21	1.84	0.59
27:BD:260:ARG:HG3	27:BD:260:ARG:NH1	2.17	0.59
27:BD:29:PRO:HB2	27:BD:31:LYS:CD	2.33	0.59
28:BE:159:HIS:O	28:BE:160:TYR:CD1	2.55	0.59
28:BE:103:ASP:N	28:BE:200:GLU:OE1	2.34	0.59
29:BF:11:VAL:HG23	29:BF:17:ARG:NH2	2.15	0.59
29:BF:36:VAL:CG2	29:BF:183:VAL:HG21	2.21	0.59
30:BG:130:ASN:HA	30:BG:161:THR:OG1	2.02	0.59
31:BH:139:GLN:O	31:BH:143:GLN:HG3	2.03	0.59
31:BH:157:TYR:HD1	31:BH:158:HIS:HB2	1.66	0.59
31:BH:23:ARG:CZ	31:BH:34:GLU:HB3	2.32	0.59
32:BK:45:LYS:O	32:BK:48:GLU:N	2.35	0.59
34:BM:42:TRP:HA	34:BM:47:ALA:CB	2.31	0.59
35:BN:97:ARG:HE	35:BN:99:PHE:N	2.00	0.59
35:BN:11:ALA:O	35:BN:97:ARG:NH2	2.35	0.59
36:BO:126:VAL:O	36:BO:127:ALA:HB2	2.02	0.59
24:BA:2484:G:O2'	37:BP:46:GLN:HG3	2.03	0.59
24:BA:2495:G:H5''	37:BP:82:ARG:HA	1.84	0.59
38:BQ:14:SER:C	38:BQ:17:ARG:HG2	2.22	0.59
41:BT:61:TRP:HA	41:BT:65:ILE:HD11	1.83	0.59
41:BT:5:LYS:C	41:BT:7:GLY:H	2.04	0.59
42:BU:1:MET:SD	42:BU:15:GLU:CD	2.81	0.59
44:BW:7:VAL:CG2	48:B1:31:ARG:HH22	2.14	0.59
44:BW:90:GLU:O	44:BW:93:GLU:CG	2.50	0.59
46:BY:23:LYS:HG3	46:BY:39:VAL:O	2.01	0.59
47:BZ:31:VAL:HG21	47:BZ:67:VAL:HA	1.83	0.59
32:BK:88:ILE:HD11	32:BK:123:LEU:HD13	1.83	0.59
26:BC:108:MET:HE1	26:BC:130:ILE:HG22	1.83	0.59
26:BC:183:GLU:CD	26:BC:183:GLU:N	2.53	0.59
26:BC:58:VAL:HG11	26:BC:199:HIS:HB3	1.83	0.59
24:BA:1488:G:O6	24:BA:1489:U:C2	2.55	0.59
24:BA:2187:G:O2'	24:BA:2188:C:H5'	2.02	0.59
1:AA:1065:U:OP2	1:AA:1190:G:N2	2.35	0.59
1:AA:109:A:O2'	1:AA:110:C:OP1	2.19	0.59
1:AA:1120:G:C8	1:AA:1120:G:O5'	2.55	0.59
1:AA:1279:A:O2'	1:AA:1282:C:C4	2.52	0.59
1:AA:1431:C:O2'	1:AA:1432:G:H5'	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1483:A:O5'	1:AA:1483:A:C8	2.49	0.59
1:AA:1508:G:H2'	1:AA:1509:C:H6	1.68	0.59
1:AA:290:C:H2'	1:AA:291:C:H5'	1.83	0.59
1:AA:321:A:H61	1:AA:332:G:H1	1.49	0.59
1:AA:366:C:O2'	1:AA:367:U:P	2.60	0.59
1:AA:696:A:H2'	1:AA:697:U:C5'	2.31	0.59
1:AA:745:C:H1'	1:AA:836:G:O2'	2.02	0.59
1:AA:940:C:H2'	1:AA:941:G:C8	2.37	0.59
3:AB:33:U:O2'	3:AB:35:A:C8	2.54	0.59
3:AB:54:U:OP1	37:BP:60:ARG:CG	2.47	0.59
3:AD:5:G:C2	3:AD:6:G:N7	2.70	0.59
4:AE:132:LYS:HA	4:AE:135:GLN:OE1	2.01	0.59
4:AE:114:ARG:HH12	4:AE:141:GLU:HG3	1.66	0.59
4:AE:33:TYR:HB2	4:AE:43:ASP:HB2	1.84	0.59
6:AG:98:GLU:HA	6:AG:103:ASN:HD21	1.65	0.59
7:AH:147:ASP:O	7:AH:148:VAL:C	2.41	0.59
8:AI:13:ASN:N	8:AI:13:ASN:HD22	1.98	0.59
1:AA:1376:U:OP1	9:AJ:98:SER:HB3	2.03	0.59
11:AL:53:VAL:HG11	11:AL:92:TYR:CZ	2.37	0.59
11:AL:87:GLN:O	11:AL:90:PRO:HD3	2.02	0.59
1:AA:676:A:H5''	13:AN:113:PRO:HB2	1.84	0.59
13:AN:23:ALA:HB2	13:AN:28:THR:CG2	2.32	0.59
1:AA:689:C:P	13:AN:55:LYS:HZ2	2.25	0.59
14:AO:86:ARG:HH22	14:AO:119:LYS:CG	2.14	0.59
15:AP:6:GLY:HA2	30:BG:114:ILE:HD12	1.83	0.59
16:AQ:34:TYR:OH	16:AQ:41:ARG:HA	2.02	0.59
1:AA:474:G:O5'	18:AS:81:ARG:HG3	2.02	0.59
19:AT:81:ARG:CG	19:AT:84:LEU:HD21	2.32	0.59
20:AU:21:LYS:HD2	20:AU:22:VAL:N	2.17	0.59
20:AU:22:VAL:HG23	20:AU:56:THR:HA	1.84	0.59
20:AU:66:LEU:O	20:AU:70:ILE:HG13	2.01	0.59
20:AU:72:ARG:CA	20:AU:75:ILE:HD12	2.18	0.59
1:AA:1320:C:C5	21:AV:72:GLY:HA3	2.36	0.59
22:AW:14:LYS:O	22:AW:15:ARG:C	2.39	0.59
49:B2:26:LEU:CD2	49:B2:28:LEU:HD11	2.25	0.59
49:B2:5:LYS:NZ	49:B2:59:VAL:HG22	2.17	0.59
51:B4:33:CYS:N	51:B4:37:LYS:O	2.30	0.59
52:B5:10:LEU:HD12	52:B5:28:ARG:NH2	2.17	0.59
36:BO:58:THR:OG1	54:B7:13:ARG:NH1	2.35	0.59
55:B8:10:ILE:HD12	55:B8:14:CYS:CB	2.33	0.59
24:BA:1227:A:H3'	24:BA:1227:A:C8	2.37	0.59
24:BA:1242:A:OP1	24:BA:1242:A:C8	2.55	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1309:G:N1	24:BA:1310:G:N7	2.50	0.59
24:BA:1398:C:C2	24:BA:1399:C:C5	2.91	0.59
24:BA:1435:G:O2'	24:BA:1436:G:H5'	2.02	0.59
24:BA:1444(A):A:N1	24:BA:1461:G:O5'	2.35	0.59
24:BA:1492:G:H5'	24:BA:1493:C:OP2	2.03	0.59
24:BA:1795:C:H2'	24:BA:1796:U:O4'	2.02	0.59
24:BA:1364:G:O5'	24:BA:1809:A:C6	2.56	0.59
1:AA:1517:G:O4'	24:BA:1920:C:OP1	2.20	0.59
24:BA:1934:C:H2'	24:BA:1935:G:H8	1.67	0.59
24:BA:2043:C:O2'	24:BA:2044:C:C5'	2.50	0.59
24:BA:237:C:H2'	24:BA:238:C:C6	2.36	0.59
24:BA:250:G:H5'	54:B7:8:LYS:HG2	1.84	0.59
24:BA:270(J):G:H2'	24:BA:270(J):G:N3	2.18	0.59
24:BA:2818:G:H4'	24:BA:2837:G:H4'	1.85	0.59
24:BA:292:C:C2'	24:BA:293:U:N3	2.66	0.59
24:BA:281:G:H8	24:BA:427:U:O2	1.85	0.59
24:BA:672:C:H3'	36:BO:38:GLN:NE2	2.12	0.59
24:BA:962:G:C2'	24:BA:963:U:H6	2.11	0.59
25:BB:87:G:N1	25:BB:90:C:C4	2.70	0.59
27:BD:143:HIS:O	27:BD:144:ALA:HB3	2.02	0.59
27:BD:18:VAL:C	27:BD:20:ASP:N	2.56	0.59
27:BD:53:PHE:O	27:BD:54:ARG:C	2.40	0.59
27:BD:5:LYS:HB3	27:BD:29:PRO:CD	2.31	0.59
30:BG:19:LEU:HA	30:BG:22:ARG:HB3	1.85	0.59
30:BG:54:GLU:OE1	30:BG:69:ALA:O	2.20	0.59
24:BA:1035:U:O3'	31:BH:59:ARG:NH2	2.34	0.59
31:BH:6:ARG:O	31:BH:6:ARG:HG3	2.02	0.59
31:BH:85:LYS:HD2	31:BH:145:ALA:HB2	1.83	0.59
31:BH:87:LEU:N	31:BH:132:ARG:HB3	2.16	0.59
32:BK:9:LEU:HD12	32:BK:13:GLY:O	2.03	0.59
33:BL:99:ILE:HG23	33:BL:100:THR:H	1.67	0.59
34:BM:100:GLU:HA	34:BM:103:VAL:CG1	2.31	0.59
34:BM:36:GLY:O	34:BM:43:THR:N	2.36	0.59
34:BM:4:TYR:CE1	41:BT:101:ARG:NH2	2.70	0.59
35:BN:21:CYS:HA	35:BN:40:VAL:O	2.02	0.59
35:BN:64:ARG:NH2	35:BN:77:ILE:HA	2.14	0.59
36:BO:78:PRO:HG2	36:BO:117:GLU:CD	2.23	0.59
37:BP:45:GLN:O	37:BP:47:ILE:N	2.36	0.59
39:BR:4:LEU:O	39:BR:8:GLU:HG3	2.02	0.59
35:BN:77:ILE:O	40:BS:75:ILE:CG1	2.51	0.59
24:BA:566:U:C6	42:BU:82:ARG:NH2	2.70	0.59
43:BV:36:LEU:CD2	43:BV:51:LEU:HD21	2.25	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BW:29:TRP:HA	44:BW:77:LYS:O	2.02	0.59
45:BX:1:MET:HA	45:BX:33:LYS:HG3	1.84	0.59
45:BX:12:THR:HA	45:BX:73:ARG:CZ	2.33	0.59
45:BX:76:CYS:HB3	45:BX:100:ALA:HB3	1.83	0.59
46:BY:79:ARG:HB2	46:BY:80:ARG:HH11	1.64	0.59
32:BK:113:ARG:C	32:BK:113:ARG:HD2	2.21	0.59
3:AD:8:U:N3	3:AD:14:A:N6	2.38	0.59
24:BA:2144:U:H6	24:BA:2144:U:OP2	1.85	0.59
26:BC:75:LEU:HD13	26:BC:110:PHE:CE2	2.36	0.59
26:BC:97:GLU:OE2	26:BC:119:VAL:HG12	2.02	0.59
24:BA:1485:G:N2	24:BA:1505:C:C2	2.71	0.59
14:AO:126:LYS:HD2	14:AO:128:ALA:HB3	1.84	0.59
24:BA:1579:A:H62	24:BA:1581:G:N2	1.98	0.59
1:AA:1066:C:C5	1:AA:1067:A:N7	2.70	0.59
1:AA:12:U:N3	1:AA:13:U:O4	2.36	0.59
1:AA:1347:G:C8	11:AL:107:ARG:CB	2.82	0.59
1:AA:1419:G:O6	1:AA:1482:G:C6	2.54	0.59
1:AA:321:A:O3'	1:AA:1436:U:H5'	2.02	0.59
1:AA:1435:G:C2	1:AA:1436:U:O4	2.55	0.59
1:AA:20:U:C4	1:AA:21:G:C6	2.90	0.59
1:AA:246:A:H1'	1:AA:247:G:H1'	1.82	0.59
1:AA:503:C:N3	1:AA:504:C:C5	2.70	0.59
1:AA:524:G:H2'	1:AA:525:C:H6	1.62	0.59
1:AA:562:C:C2'	14:AO:15:ARG:HB3	2.32	0.59
1:AA:579:G:C5	1:AA:580:U:C5	2.90	0.59
3:AC:11:C:H2'	3:AC:12:U:H6	1.67	0.59
3:AC:7:A:H4'	3:AC:8:U:OP2	2.02	0.59
4:AE:91:PRO:HG3	4:AE:155:LEU:H	1.66	0.59
5:AF:131:ARG:NH1	7:AH:50:GLU:OE1	2.36	0.59
5:AF:47:LEU:HD12	5:AF:83:ARG:HH21	1.66	0.59
7:AH:10:MET:HA	7:AH:32:VAL:HG22	1.84	0.59
7:AH:37:ARG:HH11	7:AH:111:GLU:C	2.06	0.59
8:AI:52:ILE:HG21	8:AI:87:ARG:NH1	2.17	0.59
9:AJ:75:VAL:HG22	9:AJ:88:PRO:N	2.16	0.59
11:AL:116:LYS:O	11:AL:121:ARG:HB3	2.02	0.59
14:AO:46:LYS:CE	14:AO:47:LYS:HZ1	2.16	0.59
15:AP:13:LYS:HB3	15:AP:17:VAL:HB	1.83	0.59
17:AR:77:ARG:NH1	17:AR:77:ARG:O	2.36	0.59
8:AI:89:MET:HG2	20:AU:76:LEU:HD21	1.84	0.59
22:AW:51:GLU:HA	22:AW:54:LYS:CG	2.32	0.59
48:B1:59:LEU:HD11	48:B1:63:ARG:CD	2.31	0.59
24:BA:247:G:O6	54:B7:11:LYS:NZ	2.35	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1005:C:O2	34:BM:28:THR:CB	2.47	0.59
24:BA:1012:U:H5'	24:BA:1013:C:OP1	2.01	0.59
24:BA:1138:G:N3	24:BA:1138:G:H2'	2.16	0.59
24:BA:1199:U:O2	24:BA:1200:C:C6	2.55	0.59
24:BA:1222:C:H2'	24:BA:1223:C:H5'	1.84	0.59
24:BA:1363:C:O3'	24:BA:1809:A:C5	2.56	0.59
24:BA:1448:G:H2'	24:BA:1449:A:C8	2.37	0.59
24:BA:1449:A:N1	24:BA:1449(A):G:C4	2.70	0.59
24:BA:1670:C:H2'	24:BA:1671:U:H5'	1.85	0.59
24:BA:1695:G:C3'	24:BA:1696:G:H5'	2.32	0.59
24:BA:1690:A:N6	24:BA:1697:G:N2	2.49	0.59
24:BA:1790:C:O2	24:BA:1790:C:C2'	2.50	0.59
24:BA:1893:C:O2'	24:BA:1894:C:H5'	2.02	0.59
24:BA:1955:U:H2'	24:BA:1955:U:O2	2.01	0.59
24:BA:1980:G:C4	24:BA:1982:C:C5	2.91	0.59
24:BA:2020:A:OP1	24:BA:2020:A:H4'	2.01	0.59
24:BA:980:A:C2	24:BA:2038:G:O4'	2.53	0.59
24:BA:2194:G:H2'	24:BA:2195:C:H5	1.67	0.59
24:BA:2525:G:N2	24:BA:2539:C:N3	2.49	0.59
24:BA:2577:A:O2'	24:BA:2612:C:C4	2.55	0.59
24:BA:270(X):G:N2	24:BA:270(Y):G:HO2'	2.00	0.59
24:BA:2810:A:H2'	24:BA:2811:G:C5'	2.33	0.59
24:BA:422:A:C2	24:BA:423:A:C4	2.91	0.59
24:BA:459:U:OP2	53:B6:40:TRP:CA	2.49	0.59
24:BA:475:U:C2	24:BA:479:A:N6	2.69	0.59
24:BA:531:C:C2	24:BA:532:A:H1'	2.38	0.59
24:BA:534:U:HO2'	41:BT:49:HIS:HE2	1.47	0.59
24:BA:59:U:O5'	24:BA:59:U:H6	1.84	0.59
24:BA:601:C:O2'	24:BA:604:G:H5''	2.02	0.59
24:BA:613:U:C5'	24:BA:614:U:C5	2.84	0.59
24:BA:736:C:O2'	24:BA:737:C:H5'	2.03	0.59
24:BA:783:A:C2	24:BA:785:G:O4'	2.56	0.59
25:BB:71:C:O2	25:BB:71:C:H2'	2.03	0.59
27:BD:111:LEU:CB	27:BD:115:GLN:HE22	2.13	0.59
27:BD:124:PRO:O	27:BD:126:GLN:N	2.33	0.59
27:BD:232:PRO:HG2	27:BD:247:ALA:N	2.16	0.59
27:BD:259:THR:HG21	27:BD:260:ARG:HH12	1.67	0.59
27:BD:31:LYS:H	27:BD:31:LYS:HD2	1.67	0.59
27:BD:73:VAL:HG12	27:BD:120:GLY:HA3	1.85	0.59
29:BF:56:GLU:O	29:BF:58:ALA:C	2.41	0.59
24:BA:674:G:C4'	29:BF:74:ARG:CZ	2.77	0.59
30:BG:97:ASP:O	30:BG:100:TRP:N	2.35	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:BG:107:LEU:CD2	30:BG:177:GLY:HA3	2.33	0.59
30:BG:75:LYS:HD3	30:BG:85:GLY:CA	2.33	0.59
33:BL:38:VAL:HA	33:BL:41:PHE:CD1	2.37	0.59
33:BL:38:VAL:HA	33:BL:41:PHE:HD1	1.67	0.59
34:BM:123:TYR:C	34:BM:125:GLY:N	2.55	0.59
35:BN:59:LYS:CE	35:BN:59:LYS:N	2.65	0.59
35:BN:68:GLU:CA	35:BN:104:ARG:CZ	2.80	0.59
35:BN:97:ARG:NH1	35:BN:98:VAL:C	2.48	0.59
37:BP:126:PRO:O	37:BP:127:ILE:HG23	2.01	0.59
38:BQ:87:TYR:HE2	38:BQ:118:GLU:OE1	1.85	0.59
40:BS:81:PRO:O	40:BS:82:LEU:C	2.40	0.59
41:BT:97:ASP:HB3	41:BT:101:ARG:NE	2.17	0.59
42:BU:69:LYS:HA	42:BU:92:THR:HB	1.84	0.59
44:BW:91:ALA:O	44:BW:95:LEU:HG	2.02	0.59
45:BX:12:THR:HG23	45:BX:73:ARG:CG	2.32	0.59
46:BY:166:SER:O	46:BY:168:GLU:N	2.34	0.59
47:BZ:12:ASN:CA	47:BZ:14:ARG:CZ	2.68	0.59
3:AD:55:U:H6	3:AD:55:U:O5'	1.85	0.59
24:BA:2135:A:C4'	24:BA:2136:C:C5	2.76	0.59
24:BA:1115:G:H2'	24:BA:1115:G:N3	2.16	0.59
1:AA:1129:C:C4	1:AA:1139:G:O6	2.56	0.59
1:AA:1240:U:C6	9:AJ:32:ARG:NH2	2.71	0.59
1:AA:1258:G:H2'	1:AA:1259:C:C5	2.37	0.59
1:AA:1443:G:H2'	1:AA:1443:G:N3	2.16	0.59
1:AA:130:A:H5''	1:AA:190:G:H2'	1.85	0.59
1:AA:305:G:O2'	1:AA:306:G:P	2.60	0.59
1:AA:789:U:O2'	1:AA:791:G:N7	2.32	0.59
1:AA:858:G:C2	1:AA:869:G:H3'	2.36	0.59
1:AA:866:C:C6	1:AA:867:G:C1'	2.85	0.59
1:AA:89:U:H2'	1:AA:90:C:O4'	2.03	0.59
1:AA:964:A:OP1	1:AA:1199:U:OP1	2.21	0.59
1:AA:951:G:O4'	1:AA:971:G:H5'	2.02	0.59
4:AE:199:TYR:O	4:AE:201:ILE:HD12	2.03	0.59
6:AG:18:LYS:HG2	6:AG:33:MET:CB	2.25	0.59
2:A1:52:U:OP1	6:AG:50:ARG:HB2	2.01	0.59
7:AH:34:VAL:HG21	7:AH:62:ALA:CB	2.32	0.59
7:AH:79:GLU:HB3	7:AH:92:LYS:CA	2.23	0.59
8:AI:16:GLN:HG3	8:AI:17:SER:H	1.67	0.59
8:AI:60:PHE:N	8:AI:60:PHE:HD1	2.01	0.59
9:AJ:71:PRO:HA	9:AJ:138:LYS:HE3	1.84	0.59
10:AK:48:TYR:HA	10:AK:60:ARG:O	2.01	0.59
12:AM:20:ALA:HB1	12:AM:37:PRO:HB3	1.83	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AN:73:MET:SD	13:AN:78:GLN:HB3	2.42	0.59
13:AN:85:ARG:NH1	13:AN:85:ARG:HG3	2.18	0.59
17:AR:36:ILE:HD11	17:AR:60:VAL:CG2	2.32	0.59
19:AT:3:LYS:O	19:AT:4:LYS:O	2.20	0.59
20:AU:58:LEU:CB	20:AU:62:GLU:HB3	2.18	0.59
21:AV:29:ARG:HG2	21:AV:48:THR:HB	1.85	0.59
22:AW:20:LEU:O	22:AW:23:ARG:HD3	2.03	0.59
22:AW:23:ARG:NH1	22:AW:24:LEU:HG	2.18	0.59
1:AA:1305:G:H5''	23:AX:5:ASP:N	2.18	0.59
23:AX:6:ARG:NH1	23:AX:15:ARG:CZ	2.66	0.59
50:B3:6:HIS:HB2	50:B3:56:VAL:HG13	1.84	0.59
51:B4:48:GLU:HA	51:B4:58:LEU:HG	1.84	0.59
53:B6:38:GLY:O	53:B6:39:ARG:HB2	2.01	0.59
54:B7:60:LEU:HD11	54:B7:64:TYR:CB	2.32	0.59
24:BA:1049:C:C4	24:BA:1050:A:N7	2.70	0.59
24:BA:1314:C:P	24:BA:1332:G:H5'	2.41	0.59
24:BA:1498:C:C1'	24:BA:1576:U:H4'	2.33	0.59
24:BA:1646:C:C3'	24:BA:1647:G:C5'	2.68	0.59
24:BA:1820:U:O4	27:BD:159:ALA:O	2.20	0.59
24:BA:1861:G:C2'	24:BA:1862:G:H5'	2.32	0.59
24:BA:2018:G:O6	24:BA:2035:G:O6	2.21	0.59
24:BA:2047:U:O2'	24:BA:2048:G:C5'	2.51	0.59
24:BA:2318:G:P	24:BA:2318:G:H8	2.25	0.59
24:BA:239:U:H1'	24:BA:259:G:H22	1.67	0.59
24:BA:199:A:N1	24:BA:2433:A:H2'	2.17	0.59
24:BA:2063:C:C2	24:BA:2450:A:N6	2.66	0.59
24:BA:1129:A:O2'	24:BA:2515:C:H1'	2.01	0.59
24:BA:2527:C:H3'	24:BA:2527:C:OP2	2.01	0.59
24:BA:270(X):G:H4'	24:BA:273:G:H5'	1.85	0.59
24:BA:2777:G:H4'	24:BA:2778:A:C5'	2.31	0.59
24:BA:408:G:O2'	24:BA:409:C:H5'	2.02	0.59
24:BA:616:A:H2'	24:BA:616:A:N3	2.17	0.59
24:BA:637:A:C2	24:BA:651:G:H4'	2.37	0.59
24:BA:638:G:N2	24:BA:650:C:O2'	2.35	0.59
24:BA:716:A:N7	24:BA:717:G:C8	2.69	0.59
24:BA:718:A:H5''	24:BA:719:C:H5	1.67	0.59
24:BA:859:G:H3'	24:BA:859:G:C8	2.37	0.59
24:BA:890:A:O4'	24:BA:890:A:OP2	2.21	0.59
24:BA:898:C:H3'	24:BA:899:A:C5'	2.31	0.59
24:BA:928:G:O2'	49:B2:43:ILE:HG12	2.03	0.59
24:BA:997:G:N3	24:BA:998:C:C5	2.71	0.59
27:BD:143:HIS:C	27:BD:145:VAL:HG23	2.22	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:5:LYS:CE	27:BD:31:LYS:HZ2	2.16	0.59
27:BD:52:ARG:HD3	27:BD:52:ARG:N	2.17	0.59
27:BD:60:ARG:CD	27:BD:62:TYR:HE2	2.10	0.59
28:BE:105:THR:CG2	28:BE:197:ILE:HD13	2.33	0.59
28:BE:147:PRO:CG	28:BE:149:ARG:CD	2.77	0.59
24:BA:2618:G:O2'	28:BE:150:VAL:HG12	2.03	0.59
28:BE:23:VAL:O	28:BE:183:LEU:HA	2.03	0.59
24:BA:38:A:H5'	29:BF:50:SER:HA	1.84	0.59
29:BF:77:ASP:O	29:BF:80:ALA:HB2	2.01	0.59
30:BG:36:LYS:HZ3	30:BG:38:VAL:H	1.50	0.59
31:BH:103:LEU:CD1	31:BH:115:VAL:HG11	2.23	0.59
33:BL:71:THR:HG23	33:BL:114:ASP:HB3	1.85	0.59
34:BM:7:LYS:HZ2	34:BM:10:GLU:H	1.49	0.59
34:BM:4:TYR:OH	41:BT:101:ARG:NH1	2.36	0.59
35:BN:99:PHE:CD2	35:BN:100:GLY:N	2.70	0.59
35:BN:10:VAL:N	35:BN:17:ARG:O	2.36	0.59
35:BN:35:VAL:HG21	35:BN:104:ARG:NH1	2.18	0.59
35:BN:21:CYS:CA	35:BN:41:ALA:HB2	2.31	0.59
38:BQ:11:ASN:OD1	38:BQ:12:ARG:HG3	2.02	0.59
40:BS:1:MET:CG	40:BS:2:ASN:N	2.64	0.59
45:BX:74:PRO:HB3	45:BX:101:LYS:CA	2.32	0.59
46:BY:30:ASN:O	46:BY:31:ARG:C	2.40	0.59
32:BK:114:LEU:CD2	32:BK:130:TYR:HB3	2.32	0.59
32:BK:137:PRO:HB2	32:BK:139:GLN:HE22	1.67	0.59
26:BC:82:LYS:HB3	26:BC:149:ILE:HG21	1.83	0.59
26:BC:163:PHE:N	26:BC:163:PHE:HD2	2.00	0.59
6:AG:43:HIS:CB	6:AG:46:LYS:HG3	2.18	0.59
1:AA:1143:G:N2	1:AA:1144:G:C4	2.71	0.59
1:AA:1285:A:C4'	1:AA:1286:A:N7	2.65	0.59
1:AA:1291:G:N2	1:AA:1292:U:C2	2.71	0.59
1:AA:1300:G:HO2'	1:AA:1301:U:H6	1.50	0.59
1:AA:1483:A:H2'	1:AA:1484:C:C5'	2.33	0.59
1:AA:357:G:P	1:AA:367:U:H2'	2.42	0.59
1:AA:397:A:O2'	1:AA:399:G:OP2	2.14	0.59
1:AA:449:C:C4	1:AA:450:G:H1'	2.38	0.59
1:AA:46:G:H22	1:AA:366:C:H1'	1.68	0.59
1:AA:510:A:H8	1:AA:510:A:O5'	1.85	0.59
1:AA:552:U:C2'	1:AA:553:A:H5'	2.33	0.59
1:AA:558:G:C4	1:AA:559:A:C2	2.90	0.59
1:AA:668:G:O2'	1:AA:669:U:H5'	2.03	0.59
1:AA:64:G:H5'	1:AA:66:G:OP1	2.02	0.59
1:AA:675:A:H2'	1:AA:676:A:O4'	2.01	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:764:C:C4	1:AA:765:G:O6	2.56	0.59
1:AA:859:A:N6	1:AA:860:A:C2	2.70	0.59
1:AA:21:G:N2	1:AA:916:G:C5	2.71	0.59
3:AB:74:C:C5	24:BA:2555:U:N3	2.71	0.59
5:AF:29:TYR:C	5:AF:29:TYR:CD2	2.76	0.59
6:AG:165:MET:CE	6:AG:167:GLY:H	2.15	0.59
7:AH:114:GLY:O	7:AH:115:VAL:CG1	2.51	0.59
7:AH:80:ILE:CD1	7:AH:91:LEU:HB3	2.32	0.59
8:AI:79:LEU:O	8:AI:80:ARG:C	2.40	0.59
9:AJ:38:LEU:CD1	9:AJ:41:ARG:HD3	2.32	0.59
10:AK:126:LYS:NZ	10:AK:127:LEU:HB2	2.18	0.59
13:AN:13:GLN:HA	13:AN:76:GLY:HA3	1.85	0.59
14:AO:83:VAL:CG2	14:AO:84:LEU:H	2.08	0.59
14:AO:85:ILE:CG2	14:AO:85:ILE:O	2.51	0.59
14:AO:91:LYS:O	14:AO:92:ASP:HB3	2.03	0.59
15:AP:52:GLU:CA	15:AP:55:ARG:NE	2.64	0.59
12:AM:54:PHE:H	16:AQ:41:ARG:NH2	2.01	0.59
1:AA:1217:C:OP1	16:AQ:8:GLU:OE2	2.21	0.59
19:AT:25:ARG:HH21	19:AT:40:LYS:CD	1.99	0.59
21:AV:43:GLU:O	21:AV:47:HIS:NE2	2.30	0.59
22:AW:13:LEU:C	22:AW:17:ARG:HH21	2.06	0.59
24:BA:988:A:O3'	49:B2:10:LYS:NZ	2.36	0.59
52:B5:22:ALA:O	52:B5:23:THR:HG23	2.02	0.59
24:BA:2284:C:P	52:B5:9:LEU:HG	2.42	0.59
53:B6:43:THR:HG23	53:B6:46:VAL:HB	1.85	0.59
54:B7:26:LYS:HZ2	54:B7:43:GLN:HA	1.68	0.59
54:B7:34:TRP:O	54:B7:36:LYS:N	2.33	0.59
55:B8:17:ILE:CD1	55:B8:26:ILE:HD12	2.16	0.59
24:BA:1000:A:C2	24:BA:1155:A:C4	2.91	0.59
24:BA:1423:G:N3	24:BA:1424:G:C8	2.71	0.59
24:BA:1439:A:C2	24:BA:1553:A:C6	2.91	0.59
24:BA:1445:C:H2'	24:BA:1446:C:C6	2.38	0.59
24:BA:1521:G:C3'	24:BA:1522:G:H5'	2.33	0.59
24:BA:2193:G:C2	24:BA:2194:G:C8	2.90	0.59
24:BA:2199:A:OP2	24:BA:2205:C:H5	1.85	0.59
24:BA:2283:C:H2'	24:BA:2284:C:H4'	1.85	0.59
24:BA:2355:C:C4	24:BA:2356:C:C4	2.91	0.59
24:BA:2657:A:C4	24:BA:2665:A:N3	2.71	0.59
24:BA:2740:A:N6	24:BA:2764:A:H1'	2.17	0.59
24:BA:315:G:H2'	24:BA:316:C:C1'	2.32	0.59
24:BA:366:C:C6	24:BA:366:C:O5'	2.56	0.59
24:BA:465:G:O2'	24:BA:466:A:H5'	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:502:A:C2'	24:BA:503:A:H5'	2.33	0.59
24:BA:569:U:P	24:BA:945:A:H61	2.26	0.59
24:BA:649:G:H5''	24:BA:650:C:OP2	2.02	0.59
24:BA:728:G:O2'	24:BA:729:G:C5'	2.50	0.59
24:BA:763:G:H5'	27:BD:211:ARG:NH1	2.18	0.59
24:BA:784:A:O2'	24:BA:785:G:H5'	2.03	0.59
24:BA:914:C:H2'	24:BA:915:C:H5'	1.83	0.59
27:BD:28:GLU:N	27:BD:29:PRO:HD2	2.17	0.59
27:BD:95:LEU:HD13	27:BD:96:HIS:N	2.18	0.59
28:BE:104:VAL:HG12	28:BE:105:THR:H	1.67	0.59
28:BE:113:PHE:CD1	28:BE:113:PHE:N	2.69	0.59
28:BE:119:ARG:HH22	28:BE:155:LYS:HD2	1.67	0.59
28:BE:118:LYS:O	28:BE:120:TRP:N	2.34	0.59
28:BE:129:HIS:HD2	28:BE:129:HIS:H	1.50	0.59
28:BE:91:VAL:CG2	28:BE:180:ASN:HD21	2.15	0.59
28:BE:94:GLU:O	28:BE:95:ILE:C	2.40	0.59
30:BG:12:TYR:CZ	30:BG:13:GLU:HG3	2.38	0.59
30:BG:4:ASP:HB3	30:BG:104:GLU:OE2	2.02	0.59
32:BK:34:GLY:C	32:BK:35:LEU:HD22	2.22	0.59
32:BK:33:ARG:HB2	32:BK:35:LEU:CD2	2.33	0.59
32:BK:9:LEU:HB3	32:BK:13:GLY:HA3	1.84	0.59
33:BL:10:LEU:HD12	33:BL:23:VAL:HG22	1.81	0.59
35:BN:25:LEU:HD22	35:BN:38:VAL:CG2	2.25	0.59
36:BO:29:LYS:C	36:BO:30:THR:CG2	2.70	0.59
36:BO:77:ARG:NH2	36:BO:117:GLU:HG3	2.17	0.59
37:BP:48:GLU:O	37:BP:51:ARG:CG	2.37	0.59
40:BS:82:LEU:HD22	40:BS:84:GLN:HB2	1.84	0.59
41:BT:9:VAL:O	41:BT:12:ARG:HB2	2.02	0.59
24:BA:996:A:C4'	41:BT:93:LYS:HG3	2.26	0.59
44:BW:3:THR:O	44:BW:4:ALA:CB	2.50	0.59
44:BW:39:ILE:HG21	44:BW:54:VAL:CG1	2.29	0.59
44:BW:63:LYS:CA	44:BW:63:LYS:CE	2.81	0.59
46:BY:118:GLN:HB2	46:BY:144:LEU:CD2	2.27	0.59
46:BY:91:LEU:HB2	46:BY:131:ARG:NH1	2.18	0.59
46:BY:166:SER:OG	46:BY:167:PRO:CD	2.49	0.59
46:BY:41:LEU:O	46:BY:44:PHE:N	2.36	0.59
47:BZ:25:ARG:HG2	47:BZ:37:LEU:HA	1.84	0.59
47:BZ:56:ASP:C	47:BZ:57:PHE:HD1	2.06	0.59
26:BC:10:LEU:HD11	26:BC:32:LEU:CD2	2.33	0.59
24:BA:1583:A:H5'	24:BA:1585:C:OP1	2.01	0.59
29:BF:146:ALA:HB3	29:BF:148:LEU:HD23	1.83	0.59
2:A1:39:U:H5''	2:A1:40:U:C5'	2.32	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1025:U:H2'	1:AA:1026:G:C8	2.37	0.59
1:AA:1376:U:O5'	1:AA:1376:U:H6	1.85	0.59
1:AA:1405:G:C4'	1:AA:1519:A:H4'	2.33	0.59
1:AA:1433:A:C8	1:AA:1468:A:N6	2.71	0.59
1:AA:1487:G:O2'	1:AA:1488:G:H5'	2.02	0.59
1:AA:1500:A:OP1	1:AA:1508:G:OP1	2.21	0.59
1:AA:370:C:H2'	1:AA:371:G:H8	1.68	0.59
1:AA:369:C:OP2	1:AA:388:G:N1	2.35	0.59
1:AA:397:A:C2'	1:AA:399:G:OP2	2.49	0.59
1:AA:474:G:OP1	18:AS:80:PHE:O	2.21	0.59
1:AA:836:G:P	20:AU:61:LYS:HZ1	2.26	0.59
1:AA:978:A:N6	1:AA:1361:G:N2	2.38	0.59
4:AE:113:HIS:HA	4:AE:116:GLU:OE1	2.02	0.59
4:AE:15:VAL:HG11	4:AE:209:ARG:CB	2.31	0.59
4:AE:41:ILE:N	4:AE:41:ILE:HD12	2.16	0.59
5:AF:122:GLU:O	5:AF:125:GLU:HB2	2.02	0.59
5:AF:64:VAL:O	5:AF:66:VAL:HG23	2.02	0.59
6:AG:148:VAL:CB	6:AG:181:MET:HE3	2.24	0.59
6:AG:194:LEU:CB	6:AG:196:LEU:HD11	2.31	0.59
9:AJ:122:HIS:HA	9:AJ:125:MET:SD	2.43	0.59
9:AJ:41:ARG:HG2	9:AJ:41:ARG:HH11	1.66	0.59
9:AJ:50:ILE:O	9:AJ:54:THR:O	2.20	0.59
10:AK:122:ARG:N	10:AK:122:ARG:HD3	2.17	0.59
10:AK:41:ARG:HB3	10:AK:41:ARG:HH11	1.64	0.59
10:AK:79:VAL:O	10:AK:81:HIS:N	2.36	0.59
1:AA:1177:G:OP2	11:AL:93:ARG:NH2	2.35	0.59
13:AN:48:ILE:HD11	13:AN:64:ALA:CA	2.32	0.59
13:AN:73:MET:SD	13:AN:103:LEU:HD22	2.43	0.59
13:AN:87:THR:HG22	13:AN:91:ARG:NH1	2.16	0.59
15:AP:19:LEU:HD12	15:AP:20:THR:H	1.66	0.59
15:AP:8:GLU:HG3	15:AP:22:ILE:CG1	2.25	0.59
1:AA:1358:U:C5'	16:AQ:34:TYR:HA	2.32	0.59
17:AR:70:LEU:HD11	17:AR:77:ARG:HH21	1.67	0.59
17:AR:70:LEU:HG	17:AR:78:TYR:HB2	1.85	0.59
19:AT:22:LEU:HD12	19:AT:40:LYS:O	2.02	0.59
19:AT:51:TYR:CD1	19:AT:51:TYR:N	2.61	0.59
20:AU:39:VAL:O	20:AU:42:ARG:HB2	2.03	0.59
22:AW:104:LEU:O	22:AW:105:SER:O	2.21	0.59
23:AX:23:PRO:C	23:AX:25:LYS:H	2.04	0.59
49:B2:55:ARG:HH21	49:B2:55:ARG:HG3	1.67	0.59
24:BA:2623:G:H21	51:B4:22:HIS:HE1	1.46	0.59
51:B4:37:LYS:N	51:B4:37:LYS:HD2	2.18	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:B8:11:CYS:CB	55:B8:32:HIS:NE2	2.64	0.59
24:BA:98:G:N2	24:BA:103:A:C2	2.70	0.59
24:BA:1065:U:C2	24:BA:1066:U:O4'	2.55	0.59
24:BA:1065:U:H3'	24:BA:1066:U:H5''	1.84	0.59
24:BA:1181:C:H2'	24:BA:1182:A:C8	2.38	0.59
24:BA:974:G:C4	24:BA:1186:G:C6	2.90	0.59
24:BA:1214:A:H62	24:BA:1236:G:H21	1.50	0.59
24:BA:140:A:H1'	24:BA:1409:C:H5'	1.84	0.59
24:BA:1410:G:H2'	24:BA:1411:C:O4'	2.02	0.59
24:BA:1457:A:O2'	24:BA:1458:C:H5'	2.02	0.59
24:BA:145:G:C6	24:BA:146:G:C6	2.90	0.59
24:BA:154:G:N2	24:BA:155:C:C2	2.70	0.59
24:BA:1667:G:O6	24:BA:1992:G:P	2.60	0.59
24:BA:1771:C:C2	24:BA:1772:G:C8	2.90	0.59
24:BA:1789:A:C3'	27:BD:213:ARG:HH12	2.15	0.59
24:BA:1826:G:C2'	24:BA:1827:C:H5'	2.33	0.59
24:BA:1890:A:H3'	24:BA:1891:G:C8	2.35	0.59
24:BA:1908:C:N3	24:BA:1923:U:O2	2.36	0.59
24:BA:197:A:C2	24:BA:198:C:O4'	2.56	0.59
24:BA:2046:G:H2'	24:BA:2047:U:C5	2.38	0.59
24:BA:185:U:C2	24:BA:212:G:N2	2.71	0.59
24:BA:2228:G:C8	24:BA:2229:C:C5	2.90	0.59
24:BA:2335:A:H2'	24:BA:2337:G:C8	2.37	0.59
24:BA:834:C:O2'	24:BA:2358:G:N3	2.25	0.59
24:BA:2712:U:H2'	24:BA:2712(A):A:C5'	2.18	0.59
24:BA:2742:C:C5'	55:B8:35:ARG:NH1	2.65	0.59
24:BA:2882:A:C2'	24:BA:2883:A:O5'	2.50	0.59
24:BA:515:A:C3'	24:BA:515:A:C8	2.86	0.59
24:BA:522:G:H2'	24:BA:523:C:H6	1.67	0.59
24:BA:573:G:H2'	24:BA:574:C:C5'	2.33	0.59
24:BA:695:G:O2'	24:BA:696:G:H5'	2.03	0.59
24:BA:748:G:O6	43:BV:90:ARG:NH1	2.36	0.59
25:BB:60:C:C2'	25:BB:60:C:O2	2.51	0.59
27:BD:143:HIS:NE2	27:BD:192:THR:CG2	2.65	0.59
27:BD:34:VAL:O	27:BD:36:PRO:HD2	2.03	0.59
28:BE:103:ASP:C	28:BE:104:VAL:HG23	2.23	0.59
28:BE:50:GLY:H	28:BE:76:ARG:CG	2.10	0.59
29:BF:39:TRP:CZ3	29:BF:43:LYS:HB2	2.37	0.59
30:BG:119:GLY:HA3	30:BG:180:PHE:CD2	2.37	0.59
34:BM:51:PHE:CD2	34:BM:119:ARG:HB2	2.38	0.59
34:BM:38:HIS:C	34:BM:42:TRP:CE3	2.76	0.59
35:BN:63:VAL:CG2	35:BN:82:ASN:H	2.15	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BO:16:ARG:HD3	36:BO:19:VAL:H	1.66	0.59
24:BA:832:G:OP2	36:BO:35:HIS:CG	2.56	0.59
36:BO:36:LYS:HZ2	36:BO:42:SER:CB	2.15	0.59
36:BO:81:GLN:HE22	36:BO:123:LEU:HD21	1.66	0.59
37:BP:77:LYS:HB2	37:BP:78:PRO:CD	2.32	0.59
39:BR:66:ALA:O	39:BR:68:GLN:N	2.36	0.59
40:BS:82:LEU:C	40:BS:84:GLN:N	2.55	0.59
41:BT:65:ILE:H	41:BT:65:ILE:HD13	1.65	0.59
42:BU:11:GLN:NE2	42:BU:24:LYS:NZ	2.37	0.59
42:BU:93:GLU:OE2	42:BU:95:LEU:HD22	2.01	0.59
42:BU:61:VAL:C	42:BU:99:ILE:HB	2.23	0.59
47:BZ:44:ARG:CG	47:BZ:77:ARG:HG3	2.33	0.59
26:BC:22:ILE:HG23	26:BC:189:ILE:CD1	2.32	0.59
1:AA:345:C:H5'	1:AA:346:G:C5	2.38	0.59
1:AA:1097:C:H2'	1:AA:1098:C:C6	2.37	0.59
6:AG:151:LYS:CD	6:AG:151:LYS:H	2.14	0.59
24:BA:56:A:H2'	24:BA:57:C:C6	2.36	0.59
2:A1:12:U:H5'	2:A1:13:U:OP2	2.02	0.59
1:AA:1269:A:H8	1:AA:1270:C:C1'	2.15	0.59
1:AA:1443:G:OP1	1:AA:1446:A:OP1	2.21	0.59
1:AA:1490:C:H2'	1:AA:1491:G:C5'	2.32	0.59
1:AA:221:C:H2'	1:AA:222:U:C6	2.37	0.59
1:AA:355:C:N3	1:AA:356:A:N7	2.51	0.59
1:AA:555:C:H5''	1:AA:556:C:OP2	2.02	0.59
1:AA:816:A:C2'	1:AA:817:C:OP2	2.49	0.59
1:AA:859:A:O2'	1:AA:860:A:C5'	2.50	0.59
1:AA:886:G:HO2'	1:AA:887:G:H5'	1.67	0.59
1:AA:244:U:O4	1:AA:893:C:N3	2.36	0.59
1:AA:979:C:P	1:AA:981:U:O4	2.60	0.59
3:AB:74:C:C2'	3:AB:75:C:H5'	2.32	0.59
3:AC:74:C:C2'	3:AC:75:C:H5''	2.33	0.59
4:AE:46:LYS:HA	4:AE:49:GLU:OE1	2.03	0.59
5:AF:43:LEU:CD1	5:AF:55:VAL:HG11	2.32	0.59
5:AF:42:LEU:HD12	5:AF:94:LEU:CD1	2.32	0.59
1:AA:619:U:O2	6:AG:133:VAL:HG13	2.03	0.59
7:AH:41:VAL:HG21	7:AH:113:ALA:HB2	1.84	0.59
7:AH:12:LEU:HD13	7:AH:12:LEU:O	2.03	0.59
7:AH:140:ARG:HH11	7:AH:140:ARG:HB3	1.67	0.59
7:AH:48:ALA:HB3	7:AH:53:LEU:CB	2.26	0.59
7:AH:43:LEU:O	7:AH:65:ASN:ND2	2.36	0.59
10:AK:40:ALA:HA	10:AK:43:GLY:O	2.01	0.59
13:AN:18:ARG:NH2	13:AN:36:ASP:O	2.35	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AO:110:VAL:O	14:AO:113:ARG:HB2	2.02	0.59
20:AU:75:ILE:CG2	20:AU:76:LEU:HD22	2.33	0.59
21:AV:2:PRO:O	21:AV:3:ARG:O	2.19	0.59
49:B2:40:THR:HG21	49:B2:42:ALA:HB3	1.85	0.59
50:B3:47:GLN:CA	50:B3:52:THR:OG1	2.51	0.59
51:B4:13:LYS:HB3	51:B4:16:ARG:HH11	1.66	0.59
54:B7:36:LYS:HG3	54:B7:40:GLU:OE1	2.03	0.59
55:B8:3:VAL:O	55:B8:5:ALA:N	2.35	0.59
24:BA:1101:U:H2'	24:BA:1102:C:C6	2.38	0.59
24:BA:1122:G:C2	24:BA:1123:C:C5	2.90	0.59
24:BA:1264:G:O6	24:BA:1265:A:C5	2.56	0.59
24:BA:1427:A:OP1	24:BA:1427:A:H8	1.85	0.59
24:BA:1472:A:N6	24:BA:1518:C:N4	2.51	0.59
24:BA:1675:C:O2	24:BA:1675:C:H2'	2.02	0.59
24:BA:1944:U:O2	24:BA:1955:U:C6	2.56	0.59
24:BA:2081:C:C2	24:BA:2082:A:C8	2.90	0.59
24:BA:2093:G:H2'	24:BA:2094:G:C5'	2.32	0.59
24:BA:2216:G:O5'	24:BA:2216:G:H8	1.85	0.59
24:BA:2230:G:H2'	24:BA:2231:C:C6	2.37	0.59
24:BA:245:G:H1	24:BA:253:C:N4	2.00	0.59
24:BA:2543:G:C5	24:BA:2544:G:C6	2.90	0.59
24:BA:1669:A:H5''	24:BA:2550:G:P	2.42	0.59
24:BA:2520:C:H5	24:BA:2567:G:C4	2.21	0.59
24:BA:2567:G:C5	24:BA:2568:C:N4	2.71	0.59
24:BA:2838:G:O2'	38:BQ:45:ARG:NH1	2.34	0.59
24:BA:344:G:H2'	24:BA:345:A:C1'	2.33	0.59
24:BA:36:G:H4'	24:BA:451:C:O2	2.03	0.59
24:BA:412:A:H2'	24:BA:413:C:O4'	2.01	0.59
24:BA:476:G:N1	24:BA:479:A:OP2	2.30	0.59
24:BA:648:G:H2'	24:BA:649:G:H8	1.65	0.59
24:BA:779:U:H3'	24:BA:780:G:C8	2.37	0.59
25:BB:61:G:H2'	25:BB:62:C:C6	2.38	0.59
25:BB:73:A:O2'	25:BB:74:U:O5'	2.21	0.59
25:BB:97:G:C2'	25:BB:98:G:H5'	2.31	0.59
24:BA:2227:A:C5'	27:BD:260:ARG:HD2	2.33	0.59
27:BD:41:GLY:C	27:BD:60:ARG:HH12	2.06	0.59
27:BD:60:ARG:HB3	27:BD:62:TYR:CE2	2.38	0.59
28:BE:13:ARG:HD2	28:BE:13:ARG:C	2.23	0.59
28:BE:53:PRO:HD2	28:BE:75:VAL:HG13	1.85	0.59
29:BF:155:LEU:HD22	29:BF:157:VAL:HG12	1.84	0.59
29:BF:34:TRP:O	29:BF:37:VAL:N	2.36	0.59
29:BF:36:VAL:CG1	29:BF:37:VAL:N	2.64	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:BG:131:TYR:CZ	30:BG:132:ASN:HA	2.38	0.59
31:BH:156:ALA:HB1	31:BH:172:LYS:NZ	2.17	0.59
31:BH:33:LEU:CD2	31:BH:35:VAL:HG13	2.32	0.59
24:BA:557:U:O3'	34:BM:112:LEU:CG	2.50	0.59
35:BN:109:LYS:O	35:BN:111:PHE:N	2.35	0.59
36:BO:46:LYS:HA	36:BO:49:ARG:NH1	2.17	0.59
37:BP:111:GLU:C	37:BP:113:GLN:N	2.55	0.59
38:BQ:38:VAL:HG23	38:BQ:110:PRO:O	2.03	0.59
40:BS:105:LEU:O	40:BS:107:ASP:N	2.36	0.59
40:BS:33:LYS:HD3	40:BS:47:GLY:CA	2.32	0.59
41:BT:97:ASP:CB	41:BT:101:ARG:NH2	2.66	0.59
45:BX:46:LYS:N	45:BX:57:GLN:HA	2.18	0.59
25:BB:104:A:HO2'	46:BY:29:TYR:HH	1.50	0.59
3:AD:8:U:O4'	3:AD:48:C:H4'	2.03	0.59
24:BA:2144:U:C6	24:BA:2144:U:OP2	2.56	0.59
24:BA:2165:G:C8	24:BA:2165:G:OP2	2.56	0.59
26:BC:210:ARG:CZ	26:BC:210:ARG:HB3	2.33	0.59
26:BC:21:THR:HG22	26:BC:225:ASN:HD22	1.67	0.59
1:AA:1085:U:O2	1:AA:1094:G:O6	2.21	0.59
1:AA:1129:C:C5	1:AA:1139:G:N7	2.71	0.59
1:AA:1269:A:H8	1:AA:1270:C:H1'	1.68	0.59
1:AA:1311:G:OP2	21:AV:2:PRO:N	2.36	0.59
1:AA:251:G:H5'	1:AA:252:U:OP1	2.01	0.59
1:AA:597:G:C5	1:AA:644:G:N1	2.71	0.59
1:AA:87:A:H62	1:AA:88:C:N4	2.00	0.59
1:AA:969:A:OP1	1:AA:969:A:O4'	2.21	0.59
3:AB:8:U:O4	3:AB:14:A:H5''	2.03	0.59
3:AC:21:A:N6	3:AC:46:G:C2	2.70	0.59
4:AE:10:LEU:O	4:AE:11:LEU:O	2.21	0.59
4:AE:185:ILE:HB	4:AE:199:TYR:HB2	1.85	0.59
5:AF:17:ASP:OD2	5:AF:18:TRP:CZ3	2.56	0.59
6:AG:170:VAL:HG12	6:AG:171:GLY:H	1.68	0.59
6:AG:19:LEU:N	6:AG:33:MET:HE1	2.06	0.59
6:AG:52:SER:C	6:AG:54:TYR:H	2.06	0.59
6:AG:57:ARG:HH22	7:AH:107:ARG:NE	2.01	0.59
1:AA:5:U:C5	6:AG:86:LYS:HD3	2.38	0.59
7:AH:11:ILE:CB	7:AH:31:LEU:HD22	2.31	0.59
9:AJ:77:SER:CA	9:AJ:156:TRP:HZ2	2.16	0.59
10:AK:38:ILE:HA	10:AK:41:ARG:HB2	1.85	0.59
10:AK:88:LYS:HZ3	10:AK:88:LYS:HB2	1.68	0.59
12:AM:16:LEU:HB3	12:AM:70:ARG:CG	2.32	0.59
13:AN:73:MET:HE2	13:AN:103:LEU:HD22	1.84	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AN:19:ALA:N	13:AN:80:VAL:CG2	2.65	0.59
14:AO:60:LEU:HD11	14:AO:64:TYR:HB3	1.85	0.59
15:AP:78:ILE:O	15:AP:81:LEU:HD22	2.03	0.59
20:AU:27:GLY:O	20:AU:28:GLU:C	2.40	0.59
48:B1:14:VAL:HA	48:B1:17:GLU:OE2	2.01	0.59
48:B1:44:LYS:HG3	48:B1:48:LEU:CD2	2.28	0.59
50:B3:53:GLU:CG	50:B3:54:GLY:N	2.66	0.59
52:B5:35:GLU:CD	52:B5:52:VAL:HG13	2.22	0.59
24:BA:126:A:H5''	53:B6:18:PHE:CD1	2.37	0.59
52:B5:11:LEU:HD22	54:B7:35:GLN:CD	2.22	0.59
24:BA:1184:G:O2'	24:BA:1185:C:H5'	2.02	0.59
24:BA:443:A:O4'	24:BA:1201:C:O4'	2.21	0.59
24:BA:1240:U:O2	24:BA:1240:U:H2'	2.02	0.59
24:BA:1264:G:N7	24:BA:1265:A:C8	2.71	0.59
24:BA:1267:U:OP2	24:BA:2012:G:O6	2.21	0.59
24:BA:1275:A:N6	24:BA:1295:C:O2'	2.35	0.59
24:BA:1357:U:C4	24:BA:1358:G:C2	2.91	0.59
24:BA:150:C:O2	24:BA:151:C:C5	2.56	0.59
24:BA:175:G:H21	24:BA:176:G:H1'	1.66	0.59
24:BA:1764:G:N2	24:BA:1989:G:H1'	2.17	0.59
24:BA:1819:A:OP1	27:BD:157:ARG:HA	2.01	0.59
24:BA:2025:C:H2'	24:BA:2026:C:C5	2.37	0.59
24:BA:223:A:N7	24:BA:408:G:H1'	2.18	0.59
24:BA:2291:U:H2'	24:BA:2292:C:H6	1.64	0.59
24:BA:2396:G:O2'	24:BA:2397:G:H5'	2.02	0.59
24:BA:2075:U:H5	24:BA:2435:A:N1	2.01	0.59
24:BA:2469:A:C5	24:BA:2470:G:C8	2.91	0.59
24:BA:2765:A:C2'	24:BA:2765:A:N3	2.55	0.59
24:BA:2772:C:O2	24:BA:2772:C:H2'	2.03	0.59
24:BA:2774:C:H3'	24:BA:2775:A:H8	1.67	0.59
24:BA:2828:C:N4	24:BA:2829:C:H41	2.01	0.59
24:BA:2844:G:H3'	24:BA:2845:G:C8	2.38	0.59
24:BA:2845:G:H2'	24:BA:2846:G:H8	1.68	0.59
24:BA:714:U:H6	24:BA:714:U:OP2	1.86	0.59
24:BA:728:G:C1'	24:BA:729:G:C8	2.86	0.59
24:BA:754:C:H2'	24:BA:755:C:H5'	1.85	0.59
24:BA:77:C:H2'	24:BA:78:A:H8	1.68	0.59
24:BA:83:G:N1	24:BA:102:G:O2'	2.35	0.59
24:BA:846:C:HO2'	24:BA:847:U:P	2.24	0.59
24:BA:914:C:C5	24:BA:915:C:C5	2.91	0.59
25:BB:4:C:N4	25:BB:5:C:C4	2.71	0.59
24:BA:1775:U:C6	27:BD:208:LYS:CD	2.85	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:BE:154:LYS:NZ	28:BE:156:MET:CE	2.66	0.59
29:BF:122:LYS:CE	29:BF:192:LEU:HB3	2.33	0.59
29:BF:7:TYR:H	29:BF:20:LEU:CD2	2.15	0.59
30:BG:116:ASP:CB	30:BG:118:ARG:HH21	2.12	0.59
30:BG:110:ALA:HB1	30:BG:139:LEU:CD2	2.32	0.59
30:BG:147:ASP:O	30:BG:148:MET:HB2	2.02	0.59
30:BG:166:ASP:O	30:BG:168:GLU:N	2.36	0.59
30:BG:39:ILE:HA	30:BG:157:ILE:HG13	1.85	0.59
31:BH:163:TYR:O	31:BH:164:TYR:O	2.21	0.59
31:BH:76:VAL:O	31:BH:79:VAL:HG22	2.02	0.59
33:BL:21:PRO:HG2	33:BL:22:PRO:CD	2.32	0.59
33:BL:79:ARG:HG2	33:BL:136:VAL:CG2	2.32	0.59
34:BM:97:ARG:O	34:BM:100:GLU:CB	2.51	0.59
34:BM:107:LEU:HD23	34:BM:108:PRO:N	2.16	0.59
34:BM:27:ALA:O	34:BM:29:LYS:N	2.36	0.59
34:BM:29:LYS:C	34:BM:31:ALA:N	2.52	0.59
34:BM:91:LEU:O	34:BM:92:ALA:C	2.39	0.59
35:BN:39:ILE:HD13	35:BN:39:ILE:H	1.67	0.59
24:BA:832:G:OP1	36:BO:35:HIS:HB2	2.02	0.59
36:BO:90:ARG:HA	36:BO:125:VAL:HG22	1.85	0.59
37:BP:80:GLU:N	37:BP:80:GLU:OE1	2.36	0.59
40:BS:113:LYS:O	40:BS:114:LEU:C	2.40	0.59
40:BS:82:LEU:HD22	40:BS:84:GLN:H	1.68	0.59
41:BT:39:LEU:O	41:BT:40:PHE:C	2.41	0.59
42:BU:83:ARG:HD3	42:BU:83:ARG:C	2.24	0.59
43:BV:31:GLU:N	43:BV:31:GLU:OE1	2.35	0.59
44:BW:85:PRO:HB2	44:BW:87:GLN:HE21	1.68	0.59
45:BX:7:VAL:O	45:BX:8:LYS:HD2	2.03	0.59
46:BY:96:VAL:CG1	46:BY:128:VAL:HG22	2.32	0.59
46:BY:169:GLU:O	46:BY:169:GLU:HG2	2.02	0.59
46:BY:59:LEU:C	46:BY:59:LEU:HD23	2.22	0.59
46:BY:7:ALA:HB1	46:BY:9:TYR:O	2.02	0.59
47:BZ:76:GLY:N	47:BZ:78:TYR:HE1	2.01	0.59
32:BK:69:LYS:HA	32:BK:138:ILE:CD1	2.33	0.59
3:AD:18:G:C2	3:AD:19:G:H1'	2.36	0.59
3:AD:59:U:OP2	3:AD:59:U:O4'	2.21	0.59
3:AD:60:U:H2'	3:AD:61:C:OP1	2.03	0.59
24:BA:2124:G:H21	26:BC:218:MET:N	2.01	0.59
26:BC:77:ILE:CG2	26:BC:123:VAL:HG22	2.29	0.59
26:BC:39:GLU:O	26:BC:178:ALA:HB2	2.02	0.59
1:AA:232:G:C5	1:AA:233:C:N4	2.71	0.59
2:A1:44:U:C2	2:A1:45:U:C5	2.90	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1074:G:H2'	1:AA:1075:C:O4'	2.03	0.59
1:AA:1129:C:C1'	1:AA:1130:A:N7	2.65	0.59
1:AA:1262:C:H2'	1:AA:1263:C:H6	1.65	0.59
1:AA:1361:G:N7	1:AA:1362:C:H5	2.01	0.59
1:AA:1399:C:H4'	1:AA:1400:C:O5'	2.03	0.59
1:AA:173:U:H5''	1:AA:197:A:H1'	1.82	0.59
1:AA:508:C:H4'	1:AA:509:A:O5'	2.03	0.59
1:AA:296:U:HO2'	1:AA:556:C:HO2'	1.50	0.59
1:AA:692:U:O4	13:AN:53:SER:N	2.36	0.59
1:AA:748:C:O2'	1:AA:749:C:C6	2.54	0.59
1:AA:921:U:C2	1:AA:922:G:C8	2.90	0.59
4:AE:189:ASP:OD2	4:AE:205:ASP:OD1	2.20	0.59
4:AE:58:ILE:HG22	4:AE:221:LEU:HD12	1.85	0.59
4:AE:58:ILE:HG22	4:AE:61:LEU:HD22	1.83	0.59
5:AF:114:PRO:HD3	5:AF:183:ASP:OD1	2.03	0.59
5:AF:157:ILE:O	5:AF:158:GLY:C	2.41	0.59
5:AF:150:LYS:CB	5:AF:173:VAL:HG21	2.22	0.59
6:AG:82:ALA:HB1	6:AG:89:THR:HA	1.84	0.59
7:AH:106:PRO:HB3	7:AH:120:THR:HG21	1.85	0.59
7:AH:76:ILE:HG21	7:AH:142:LEU:CD1	2.33	0.59
7:AH:61:TYR:HA	7:AH:64:ARG:HG2	1.85	0.59
9:AJ:65:ALA:HB2	9:AJ:124:LEU:HD23	1.83	0.59
10:AK:39:LEU:HD12	10:AK:45:ILE:HG22	1.85	0.59
10:AK:17:THR:HG21	10:AK:80:ILE:HG21	1.84	0.59
13:AN:112:THR:N	13:AN:113:PRO:CD	2.64	0.59
13:AN:86:GLY:CA	13:AN:112:THR:HG23	2.33	0.59
15:AP:38:GLY:O	15:AP:39:ILE:HG23	2.03	0.59
15:AP:3:ARG:HG2	15:AP:7:VAL:HA	1.84	0.59
49:B2:23:LEU:CB	49:B2:28:LEU:HD12	2.32	0.59
49:B2:4:LEU:CD2	49:B2:56:VAL:HG23	2.27	0.59
24:BA:400:G:N1	50:B3:63:TYR:OH	2.30	0.59
53:B6:1:MET:HG3	53:B6:1:MET:O	2.03	0.59
24:BA:1050:A:H2'	24:BA:1051:G:O4'	2.02	0.59
24:BA:1205:U:O2'	24:BA:1206:G:O6	2.20	0.59
24:BA:1296:G:H2'	24:BA:1297:C:C6	2.36	0.59
24:BA:1422:G:N3	24:BA:1423:G:C8	2.70	0.59
24:BA:1654:A:N3	24:BA:1654:A:H2'	2.18	0.59
24:BA:1684:C:C4	24:BA:1705:G:N2	2.71	0.59
24:BA:1913:A:N1	24:BA:1918:A:N7	2.51	0.59
24:BA:1667:G:O6	24:BA:1992:G:OP1	2.20	0.59
24:BA:2018:G:H3'	24:BA:2018:G:P	2.43	0.59
24:BA:2049:G:N2	24:BA:2620:C:N1	2.51	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2232:U:C2'	24:BA:2233:U:H5'	2.33	0.59
24:BA:2269:A:H2'	24:BA:2270:G:O4'	2.03	0.59
24:BA:2277:G:H3'	24:BA:2278:A:C5'	2.25	0.59
24:BA:2401:U:OP2	24:BA:2402:C:N4	2.35	0.59
24:BA:2521:C:C2'	24:BA:2522:U:O5'	2.51	0.59
24:BA:2524:G:C6	24:BA:2525:G:C4	2.91	0.59
24:BA:2574:G:O2'	28:BE:143:ASN:HB3	2.03	0.59
24:BA:2637:U:O2'	24:BA:2638:G:O4'	2.19	0.59
24:BA:2642:G:H2'	24:BA:2643:G:H8	1.67	0.59
24:BA:2742:C:O2	24:BA:2742:C:H2'	2.02	0.59
24:BA:2778:A:H4'	24:BA:2779:U:OP2	2.02	0.59
24:BA:2861:G:H2'	24:BA:2862:G:H8	1.67	0.59
24:BA:2879:C:H5'	24:BA:2880:C:OP1	2.02	0.59
24:BA:293:U:H2'	24:BA:294:A:C8	2.36	0.59
24:BA:31:C:H5"	24:BA:1239:G:OP1	2.02	0.59
24:BA:386:G:H4'	24:BA:387:U:C6	2.38	0.59
24:BA:411:G:N2	24:BA:415:A:H61	2.00	0.59
24:BA:66:C:H2'	24:BA:67:U:H5'	1.83	0.59
24:BA:733:G:N7	24:BA:761:A:C6	2.70	0.59
24:BA:7:G:H2'	24:BA:8:A:H8	1.67	0.59
24:BA:818:G:OP2	24:BA:1187:G:O6	2.20	0.59
24:BA:827:U:OP1	24:BA:2429:G:OP2	2.20	0.59
25:BB:32:C:H3'	25:BB:33:G:H8	1.68	0.59
25:BB:69:G:C8	25:BB:69:G:OP2	2.56	0.59
27:BD:59:LYS:O	27:BD:60:ARG:HG2	2.01	0.59
29:BF:106:ARG:HG3	29:BF:107:LYS:HG3	1.85	0.59
30:BG:44:GLY:HA3	30:BG:72:ARG:HG2	1.84	0.59
31:BH:95:ARG:HB2	31:BH:106:THR:HB	1.84	0.59
31:BH:45:VAL:HG13	31:BH:50:VAL:CG2	2.32	0.59
31:BH:6:ARG:HD3	31:BH:69:ARG:CD	2.33	0.59
32:BK:21:VAL:HG11	32:BK:30:LEU:CG	2.33	0.59
34:BM:16:ILE:CB	34:BM:54:VAL:HG23	2.29	0.59
36:BO:49:ARG:CA	36:BO:52:GLU:HG2	2.33	0.59
36:BO:55:ARG:HH21	36:BO:55:ARG:CA	2.16	0.59
37:BP:111:GLU:OE1	37:BP:112:GLU:HG3	2.02	0.59
38:BQ:103:ARG:HB2	38:BQ:108:GLY:CA	2.32	0.59
39:BR:105:ALA:O	39:BR:108:GLY:N	2.36	0.59
39:BR:71:ARG:N	39:BR:104:GLY:HA2	2.17	0.59
40:BS:64:ARG:CZ	40:BS:77:PRO:CB	2.80	0.59
41:BT:99:ALA:HA	41:BT:106:PHE:CD1	2.37	0.59
41:BT:108:GLU:CD	41:BT:109:LEU:N	2.55	0.59
41:BT:54:LYS:CA	41:BT:54:LYS:HE2	2.32	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BU:66:ARG:HE	42:BU:95:LEU:CB	2.12	0.59
46:BY:43:GLU:HA	46:BY:46:LYS:HD2	1.84	0.59
47:BZ:53:MET:SD	47:BZ:59:LEU:HD23	2.43	0.59
24:BA:2135:A:C5'	24:BA:2136:C:C5	2.86	0.59
1:AA:1044:A:C2'	1:AA:1045:C:H5'	2.31	0.58
1:AA:1053:G:H4'	1:AA:1054:C:O3'	2.02	0.58
1:AA:1064:G:C1'	1:AA:1066:C:N3	2.63	0.58
1:AA:1135:U:O3'	1:AA:1136:U:H6	1.86	0.58
1:AA:953:G:C6	1:AA:1229:A:C6	2.91	0.58
1:AA:135:C:C2	18:AS:1:MET:HG2	2.38	0.58
1:AA:1411:C:H2'	1:AA:1412:C:H6	1.68	0.58
1:AA:1437:C:H2'	1:AA:1438:G:H8	1.68	0.58
1:AA:173:U:H4'	1:AA:197:A:C4	2.38	0.58
1:AA:189:U:C2	19:AT:72:ARG:NH1	2.70	0.58
1:AA:230:G:N2	1:AA:231:G:H1'	2.18	0.58
1:AA:267:C:N4	1:AA:268:C:H41	1.99	0.58
1:AA:278:G:H1'	1:AA:282:A:H1'	1.85	0.58
1:AA:362:G:H3'	14:AO:34:ARG:NH2	2.18	0.58
1:AA:445:G:O2'	1:AA:446:G:H5'	2.03	0.58
1:AA:439:A:H1'	1:AA:496:A:N1	2.18	0.58
1:AA:918:A:HO2'	1:AA:919:A:P	2.26	0.58
1:AA:926:G:N2	2:A1:39:U:P	2.76	0.58
4:AE:25:ASN:HD21	4:AE:27:LYS:HG3	1.67	0.58
4:AE:82:ARG:HB2	4:AE:94:ASN:HD22	1.68	0.58
5:AF:157:ILE:HG13	5:AF:164:ARG:CB	2.33	0.58
6:AG:79:PHE:CE1	6:AG:204:ILE:HG23	2.38	0.58
6:AG:52:SER:O	6:AG:55:ALA:N	2.36	0.58
6:AG:8:VAL:HG13	6:AG:11:LEU:HD12	1.85	0.58
8:AI:69:GLU:O	8:AI:72:VAL:HG13	2.02	0.58
9:AJ:75:VAL:CG1	9:AJ:76:ARG:N	2.66	0.58
11:AL:11:LYS:O	11:AL:11:LYS:HG2	2.03	0.58
12:AM:12:ASP:HB3	12:AM:15:THR:HG22	1.85	0.58
13:AN:29:ILE:HA	13:AN:44:SER:OG	2.03	0.58
1:AA:1228:C:C4'	15:AP:116:THR:HA	2.28	0.58
15:AP:73:GLU:C	15:AP:73:GLU:CD	2.62	0.58
16:AQ:23:ARG:NE	16:AQ:30:ALA:HB2	2.17	0.58
18:AS:31:LYS:HG2	18:AS:32:TYR:H	1.68	0.58
20:AU:53:ARG:NH1	20:AU:58:LEU:O	2.36	0.58
22:AW:27:LYS:O	22:AW:28:ALA:C	2.39	0.58
22:AW:91:LEU:N	22:AW:91:LEU:HD23	2.18	0.58
49:B2:50:VAL:HG13	49:B2:53:LEU:CG	2.32	0.58
52:B5:30:THR:HB	52:B5:31:PRO:HD2	1.83	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:B8:1:MET:N	55:B8:33:LYS:HB2	2.17	0.58
24:BA:1000:A:C8	24:BA:1001:A:C5	2.91	0.58
24:BA:1083:U:H1'	24:BA:1085:A:N7	2.18	0.58
24:BA:1127:A:H3'	24:BA:1127:A:C8	2.38	0.58
24:BA:1147:C:O2'	24:BA:1148:A:H5'	2.03	0.58
24:BA:1149:G:O2'	24:BA:1150:C:H5'	2.03	0.58
24:BA:1199:U:OP2	24:BA:1199:U:H6	1.86	0.58
24:BA:1248:G:N1	29:BF:52:LYS:NZ	2.50	0.58
24:BA:1268:A:H2'	24:BA:1269:A:C8	2.37	0.58
24:BA:1343:G:N2	24:BA:1405:U:N1	2.51	0.58
24:BA:1363:C:H1'	24:BA:1810:A:H1'	1.83	0.58
24:BA:1365:A:C5	24:BA:1366:A:N7	2.70	0.58
24:BA:1516:U:H2'	24:BA:1517:G:C8	2.38	0.58
24:BA:1535:U:H3'	24:BA:1536:A:C8	2.38	0.58
24:BA:1612:C:C2	24:BA:1620:G:N2	2.71	0.58
24:BA:1625:C:O2	24:BA:1626:G:O2'	2.15	0.58
24:BA:1637:A:H2'	24:BA:1638:C:C6	2.38	0.58
24:BA:1655:A:C2'	24:BA:1656:C:C6	2.86	0.58
24:BA:1655:A:H4'	28:BE:113:PHE:C	2.24	0.58
24:BA:1667:G:N2	24:BA:1991:U:N3	2.51	0.58
24:BA:1820:U:H5	27:BD:159:ALA:C	2.06	0.58
24:BA:1827:C:OP1	24:BA:1971:A:O2'	2.20	0.58
24:BA:1992:G:C8	24:BA:1997:G:C6	2.91	0.58
24:BA:2283:C:C5	24:BA:2389:G:C2	2.90	0.58
24:BA:2371:G:H2'	24:BA:2372:G:O4'	2.03	0.58
24:BA:2291:U:H5'	24:BA:2380:C:O2	2.02	0.58
24:BA:2346:A:N3	24:BA:2383:G:C5	2.71	0.58
24:BA:2496:C:N1	24:BA:2497:A:H2	2.00	0.58
24:BA:2570:G:C2	24:BA:2571:C:C2	2.91	0.58
24:BA:2584:U:C3'	24:BA:2584:U:C6	2.86	0.58
24:BA:2626:C:H6	24:BA:2626:C:O5'	1.85	0.58
24:BA:270(V):G:H2'	24:BA:270(W):G:C8	2.38	0.58
24:BA:2853:C:O2'	24:BA:2854:G:H5'	2.03	0.58
24:BA:2884:U:H2'	24:BA:2885:C:O4'	2.03	0.58
24:BA:410:G:H5''	24:BA:411:G:OP2	2.03	0.58
24:BA:460:A:C3'	24:BA:461:C:H6	2.16	0.58
24:BA:4:C:H2'	24:BA:5:A:C8	2.38	0.58
24:BA:729:G:C5	24:BA:730:C:C6	2.92	0.58
24:BA:816:C:C2'	24:BA:817:C:H5'	2.33	0.58
24:BA:828:U:C2'	24:BA:829:A:C8	2.74	0.58
24:BA:881:G:N2	24:BA:896:A:C6	2.67	0.58
24:BA:909:A:H2'	24:BA:912:C:H5	1.67	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:976:C:H4'	24:BA:1156:A:N7	2.17	0.58
25:BB:99:A:O2'	25:BB:100:G:H5'	2.03	0.58
25:BB:77:U:O2'	46:BY:78:LYS:NZ	2.33	0.58
27:BD:229:VAL:HG13	27:BD:230:ASP:OD1	2.02	0.58
27:BD:23:GLU:OE2	27:BD:24:ILE:O	2.20	0.58
27:BD:258:LYS:HG2	27:BD:259:THR:N	2.17	0.58
28:BE:167:VAL:HG21	28:BE:187:ALA:HB3	1.85	0.58
28:BE:91:VAL:HG21	28:BE:93:VAL:CG1	2.24	0.58
29:BF:197:ASP:HB2	29:BF:200:GLU:CD	2.23	0.58
30:BG:134:GLY:O	30:BG:135:LEU:HB3	2.03	0.58
30:BG:49:ASP:O	30:BG:53:LEU:HD13	2.03	0.58
31:BH:85:LYS:HB2	31:BH:85:LYS:HZ2	1.68	0.58
32:BK:5:LEU:CD2	32:BK:18:VAL:HA	2.33	0.58
33:BL:23:VAL:O	33:BL:34:ILE:HA	2.02	0.58
33:BL:35:MET:CA	33:BL:38:VAL:HB	2.28	0.58
34:BM:54:VAL:C	34:BM:130:HIS:CE1	2.77	0.58
35:BN:116:SER:O	35:BN:119:PRO:HG3	2.03	0.58
35:BN:16:ALA:C	35:BN:18:LYS:N	2.57	0.58
35:BN:39:ILE:O	35:BN:58:VAL:HA	2.03	0.58
36:BO:72:PRO:HB2	36:BO:111:ARG:HB2	1.81	0.58
37:BP:93:TYR:C	37:BP:94:VAL:HG12	2.23	0.58
39:BR:17:ARG:O	39:BR:20:ARG:HB2	2.03	0.58
35:BN:106:LEU:HD21	40:BS:38:ASN:HD21	1.68	0.58
40:BS:28:VAL:CG2	40:BS:93:ARG:C	2.71	0.58
24:BA:2847:U:C3'	40:BS:99:LEU:HD12	2.31	0.58
24:BA:1250:G:H4'	41:BT:6:THR:HG21	1.83	0.58
42:BU:65:GLY:N	42:BU:97:LYS:NZ	2.49	0.58
42:BU:17:GLY:O	42:BU:98:GLU:HG3	2.03	0.58
43:BV:43:GLY:O	43:BV:47:VAL:CG2	2.51	0.58
44:BW:5:TYR:HB3	48:B1:24:LYS:NZ	2.18	0.58
46:BY:120:ILE:HB	46:BY:123:ASP:OD2	2.03	0.58
46:BY:144:LEU:CA	46:BY:174:VAL:HG11	2.33	0.58
24:BA:2387:U:O2	47:BZ:41:ARG:NH2	2.35	0.58
3:AD:56:C:C6	24:BA:2169:A:H1'	2.38	0.58
14:AO:126:LYS:HE3	14:AO:126:LYS:H	1.68	0.58
2:A1:31:U:H2'	2:A1:32:U:O4'	2.03	0.58
1:AA:1212:U:O2'	1:AA:1213:A:O5'	2.20	0.58
1:AA:1417:G:H22	1:AA:1482:G:H2'	1.67	0.58
1:AA:1419:G:C2'	1:AA:1420:C:H6	2.16	0.58
1:AA:46:G:H1'	1:AA:396:G:H22	1.68	0.58
1:AA:582:U:C5'	17:AR:64:ARG:NH2	2.64	0.58
1:AA:676:A:H2'	1:AA:677:U:H6	1.68	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AB:55:U:N3	3:AB:57:G:H5''	2.18	0.58
4:AE:31:TYR:HE2	4:AE:200:ILE:CG2	2.15	0.58
4:AE:58:ILE:O	4:AE:61:LEU:N	2.36	0.58
5:AF:126:ARG:O	5:AF:127:ARG:HB2	2.02	0.58
5:AF:150:LYS:HZ3	5:AF:152:ILE:CG2	2.15	0.58
5:AF:30:ARG:HD3	5:AF:30:ARG:N	2.18	0.58
6:AG:130:GLY:O	6:AG:131:ARG:C	2.40	0.58
6:AG:155:LEU:HB2	6:AG:158:ILE:CG1	2.26	0.58
6:AG:185:PHE:CD2	6:AG:186:LEU:N	2.71	0.58
6:AG:206:PHE:HD2	6:AG:207:TYR:CD1	2.20	0.58
6:AG:30:LYS:NZ	6:AG:35:ARG:HD2	2.17	0.58
6:AG:85:LYS:NZ	6:AG:85:LYS:HB3	2.18	0.58
7:AH:141:GLN:OE1	7:AH:141:GLN:N	2.35	0.58
8:AI:79:LEU:N	8:AI:79:LEU:HD23	2.17	0.58
10:AK:6:ILE:C	10:AK:6:ILE:HD13	2.24	0.58
11:AL:89:ASN:ND2	11:AL:92:TYR:CE1	2.72	0.58
12:AM:48:THR:HA	12:AM:62:HIS:HB3	1.84	0.58
13:AN:23:ALA:CB	13:AN:88:GLY:HA3	2.32	0.58
13:AN:63:LEU:O	13:AN:63:LEU:HD23	2.02	0.58
15:AP:67:GLU:OE2	15:AP:68:GLY:N	2.36	0.58
16:AQ:24:CYS:CB	16:AQ:40:CYS:N	2.60	0.58
16:AQ:39:LEU:HD12	16:AQ:44:LEU:HD12	1.84	0.58
18:AS:15:PRO:HD2	18:AS:42:ARG:NE	2.19	0.58
18:AS:6:LEU:CD2	18:AS:6:LEU:C	2.71	0.58
20:AU:17:SER:HB3	20:AU:54:ARG:NH1	2.18	0.58
20:AU:47:THR:O	20:AU:47:THR:HG22	2.02	0.58
21:AV:40:ILE:CD1	21:AV:71:LEU:HD23	2.32	0.58
48:B1:36:ILE:HG23	48:B1:41:GLN:HE22	1.67	0.58
50:B3:37:SER:OG	50:B3:38:LYS:N	2.36	0.58
50:B3:41:PRO:HB3	50:B3:58:ARG:CD	2.31	0.58
50:B3:7:PRO:O	50:B3:60:GLN:OE1	2.21	0.58
24:BA:120:U:C2'	24:BA:120:U:O2	2.51	0.58
24:BA:139:G:O6	24:BA:1595:G:O2'	2.14	0.58
24:BA:1422:G:H2'	24:BA:1423:G:C8	2.37	0.58
24:BA:1471:A:C8	24:BA:1521:G:C2	2.91	0.58
24:BA:1609:A:H1'	24:BA:1616:A:H4'	1.85	0.58
24:BA:1681:G:H2'	24:BA:1682:G:OP1	2.03	0.58
24:BA:1688:U:C2	24:BA:1700:A:H5''	2.38	0.58
24:BA:1802:A:OP1	24:BA:1814:G:N2	2.26	0.58
24:BA:1841:U:C2	24:BA:1842:G:N7	2.71	0.58
24:BA:191:A:C2	24:BA:192:C:C6	2.90	0.58
24:BA:921:G:H4'	24:BA:2269:A:C8	2.38	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2309:A:C2	24:BA:2310:A:O4'	2.56	0.58
24:BA:2493:U:O4	24:BA:2494:G:C8	2.56	0.58
24:BA:2586:C:N4	24:BA:2587:A:N6	2.50	0.58
24:BA:270(A):A:H8	24:BA:370:G:O4'	1.85	0.58
24:BA:2859:G:H2'	24:BA:2860:A:H8	1.68	0.58
24:BA:2875:C:O3'	40:BS:2:ASN:HB3	2.04	0.58
24:BA:295:G:C1'	24:BA:345:A:C2	2.86	0.58
24:BA:388:G:P	50:B3:23:GLU:HB3	2.43	0.58
24:BA:407:G:H2'	24:BA:408:G:N7	2.17	0.58
24:BA:236:C:H4'	24:BA:431:U:H1'	1.85	0.58
24:BA:50:U:H3'	24:BA:50:U:H6	1.67	0.58
24:BA:546:C:C4	24:BA:547:A:N6	2.71	0.58
24:BA:569:U:H4'	24:BA:946:G:N3	2.18	0.58
24:BA:573:G:H2'	24:BA:574:C:H5''	1.85	0.58
24:BA:612:G:O2'	24:BA:615:G:H2'	2.03	0.58
24:BA:649:G:N3	24:BA:649:G:H2'	2.18	0.58
24:BA:811:U:H3'	24:BA:811:U:C6	2.38	0.58
24:BA:82:G:N2	24:BA:83:G:H22	2.01	0.58
24:BA:905:U:N3	24:BA:906:G:C8	2.71	0.58
24:BA:980:A:C6	24:BA:1135:C:C4'	2.86	0.58
25:BB:62:C:H2'	25:BB:63:G:C8	2.26	0.58
29:BF:124:LEU:HD11	29:BF:200:GLU:OE2	2.03	0.58
29:BF:74:ARG:CZ	29:BF:75:HIS:CA	2.81	0.58
32:BK:39:ALA:O	32:BK:43:ASN:CB	2.45	0.58
34:BM:23:LEU:HD12	34:BM:63:THR:CB	2.32	0.58
35:BN:10:VAL:HG13	35:BN:17:ARG:HA	1.84	0.58
35:BN:21:CYS:SG	35:BN:40:VAL:O	2.62	0.58
35:BN:15:GLY:HA2	35:BN:47:ILE:HG13	1.86	0.58
36:BO:76:LYS:HE3	36:BO:99:LEU:HD11	1.85	0.58
38:BQ:26:LYS:HE2	38:BQ:70:LEU:CA	2.32	0.58
39:BR:26:LEU:C	39:BR:26:LEU:HD13	2.24	0.58
40:BS:6:LEU:HD23	40:BS:7:ILE:N	2.14	0.58
42:BU:3:ALA:CB	42:BU:44:LYS:HZ2	2.15	0.58
41:BT:89:GLU:CD	42:BU:52:VAL:H	2.07	0.58
44:BW:90:GLU:O	44:BW:93:GLU:HG3	2.02	0.58
45:BX:29:GLU:HB2	45:BX:32:PRO:O	2.03	0.58
46:BY:96:VAL:CA	46:BY:128:VAL:HG13	2.30	0.58
46:BY:29:TYR:HD2	46:BY:89:PHE:CE2	2.20	0.58
32:BK:54:GLN:NE2	32:BK:57:ARG:HB3	2.18	0.58
3:AD:67:C:H2'	3:AD:68:C:O4'	2.03	0.58
7:AH:73:ASN:ND2	7:AH:73:ASN:O	2.32	0.58
1:AA:1034:G:H2'	1:AA:1035:A:C8	2.38	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:110:C:H6	1:AA:110:C:O5'	1.85	0.58
1:AA:114:U:H2'	1:AA:115:G:H8	1.68	0.58
1:AA:1178:G:N2	1:AA:1180:A:H5''	2.18	0.58
1:AA:1253:G:O2'	1:AA:1254:C:H5'	2.04	0.58
1:AA:1274:G:H2'	1:AA:1275:A:C8	2.38	0.58
1:AA:1514:C:H2'	1:AA:1515:C:C5	2.38	0.58
1:AA:16:A:H1'	7:AH:17:ALA:HB3	1.84	0.58
1:AA:148:G:N2	1:AA:175:C:C4	2.71	0.58
1:AA:244:U:C2'	1:AA:245:C:OP2	2.50	0.58
1:AA:246:A:H4'	1:AA:247:G:H4'	1.84	0.58
1:AA:262:A:C6	1:AA:263:A:N6	2.72	0.58
1:AA:278:G:C4	19:AT:95:TYR:HE2	2.21	0.58
1:AA:300:A:H2'	1:AA:301:G:C5'	2.33	0.58
1:AA:306:G:C4	1:AA:307:C:C5	2.91	0.58
1:AA:866:C:H3'	1:AA:867:G:C8	2.37	0.58
1:AA:950:U:O2'	1:AA:951:G:H5'	2.03	0.58
3:AD:33:U:H3'	3:AD:34:G:C5'	2.32	0.58
4:AE:192:SER:O	4:AE:194:PRO:CD	2.51	0.58
4:AE:222:ILE:O	4:AE:226:ARG:CB	2.42	0.58
5:AF:157:ILE:HG21	5:AF:164:ARG:HE	1.67	0.58
5:AF:178:LEU:O	5:AF:179:ARG:CB	2.51	0.58
5:AF:5:ILE:CG2	12:AM:51:ARG:HH12	2.16	0.58
5:AF:83:ARG:C	5:AF:85:ARG:H	2.05	0.58
7:AH:136:MET:HA	7:AH:139:LEU:HD12	1.84	0.58
8:AI:41:GLU:H	8:AI:63:TYR:HD1	1.49	0.58
9:AJ:73:MET:CE	9:AJ:146:GLU:HB2	2.32	0.58
9:AJ:47:CYS:HA	9:AJ:50:ILE:HD12	1.84	0.58
9:AJ:54:THR:O	9:AJ:55:GLY:C	2.42	0.58
11:AL:117:HIS:C	11:AL:119:ALA:H	2.04	0.58
11:AL:43:ALA:O	11:AL:45:ALA:N	2.35	0.58
1:AA:973:G:C1'	12:AM:55:LYS:H	2.15	0.58
14:AO:10:LEU:HD21	14:AO:15:ARG:HE	1.69	0.58
15:AP:81:LEU:CD2	15:AP:82:MET:N	2.66	0.58
17:AR:35:ARG:NH1	17:AR:59:MET:HE2	2.18	0.58
19:AT:58:GLU:HG2	19:AT:59:ILE:N	2.17	0.58
21:AV:36:ARG:HB2	21:AV:71:LEU:HB3	1.85	0.58
22:AW:34:LYS:O	22:AW:38:LYS:HG3	2.04	0.58
23:AX:9:ARG:HD2	23:AX:9:ARG:N	2.16	0.58
48:B1:23:LYS:CE	48:B1:55:LEU:HD21	2.33	0.58
50:B3:5:ILE:HD13	50:B3:60:GLN:CD	2.23	0.58
51:B4:39:MET:HE3	51:B4:41:PRO:CD	2.24	0.58
51:B4:44:THR:C	51:B4:52:TYR:OH	2.41	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:B5:39:TYR:O	52:B5:40:CYS:HB3	2.03	0.58
55:B8:1:MET:O	55:B8:33:LYS:O	2.22	0.58
24:BA:1024:G:C4	24:BA:1025:G:C8	2.91	0.58
24:BA:1366:A:C8	24:BA:1366:A:OP2	2.56	0.58
24:BA:1433:U:H6	24:BA:1433:U:H3'	1.68	0.58
24:BA:1448:G:H2'	24:BA:1449:A:H8	1.68	0.58
24:BA:1526:G:N2	24:BA:1545(A):A:H62	2.00	0.58
24:BA:1671:U:O2'	28:BE:129:HIS:CE1	2.57	0.58
24:BA:1953:A:N6	24:BA:2550:G:H5'	2.18	0.58
24:BA:1973:G:H2'	24:BA:1974:C:C6	2.37	0.58
24:BA:1977:A:N3	24:BA:1978:A:C8	2.71	0.58
24:BA:2091:U:H2'	24:BA:2092:U:C5'	2.24	0.58
24:BA:2306:C:H5	24:BA:2311:A:N6	2.00	0.58
24:BA:2466:C:C4	24:BA:2485:G:N1	2.71	0.58
24:BA:2512:C:OP1	28:BE:120:TRP:CH2	2.56	0.58
24:BA:2545:G:C2'	24:BA:2546:U:H5'	2.33	0.58
24:BA:2821:A:OP1	28:BE:110:GLY:N	2.36	0.58
24:BA:643:A:C1'	24:BA:644:A:C8	2.87	0.58
24:BA:763:G:O2'	24:BA:765:G:H5'	2.03	0.58
24:BA:775:G:C4'	24:BA:777:A:C4	2.84	0.58
24:BA:878:A:H2'	24:BA:879:G:C5'	2.32	0.58
24:BA:972:G:N7	24:BA:973:A:C8	2.71	0.58
25:BB:9:G:C5	25:BB:112:G:C6	2.91	0.58
27:BD:132:PRO:HD3	27:BD:190:TYR:CZ	2.38	0.58
27:BD:5:LYS:HD2	27:BD:81:ALA:HB1	1.85	0.58
28:BE:53:PRO:CD	28:BE:75:VAL:HG13	2.34	0.58
28:BE:8:LYS:CD	28:BE:9:VAL:N	2.65	0.58
29:BF:11:VAL:HG22	29:BF:125:LEU:O	2.03	0.58
29:BF:84:VAL:O	29:BF:86:GLY:N	2.36	0.58
30:BG:135:LEU:O	30:BG:155:MET:O	2.21	0.58
30:BG:33:ARG:NH2	30:BG:34:LEU:N	2.50	0.58
30:BG:64:THR:HG21	30:BG:92:VAL:HG11	1.83	0.58
31:BH:103:LEU:O	31:BH:113:VAL:O	2.21	0.58
32:BK:21:VAL:HG12	32:BK:21:VAL:O	2.04	0.58
34:BM:67:LEU:HA	34:BM:70:LYS:HZ1	1.67	0.58
35:BN:35:VAL:HA	35:BN:61:VAL:HG11	1.85	0.58
36:BO:96:THR:CG2	36:BO:99:LEU:HD12	2.33	0.58
38:BQ:38:VAL:CG1	38:BQ:39:PRO:HD3	2.33	0.58
38:BQ:52:ILE:HD13	38:BQ:56:LYS:HG2	1.84	0.58
38:BQ:80:PHE:O	38:BQ:84:ALA:HB3	2.03	0.58
39:BR:29:PHE:CE1	39:BR:34:HIS:NE2	2.71	0.58
40:BS:54:ARG:C	40:BS:55:ASN:OD1	2.41	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BS:95:ARG:HD2	40:BS:96:ARG:CZ	2.33	0.58
42:BU:61:VAL:C	42:BU:62:LEU:HD23	2.24	0.58
44:BW:21:PHE:HD2	44:BW:26:TYR:HA	1.69	0.58
24:BA:64:A:H2	44:BW:66:LEU:HD13	1.67	0.58
44:BW:62:LYS:HA	44:BW:72:LYS:HB3	1.85	0.58
45:BX:74:PRO:HB2	45:BX:100:ALA:CB	2.34	0.58
46:BY:9:TYR:HD2	46:BY:14:LYS:HZ3	1.47	0.58
24:BA:2278:A:N6	47:BZ:14:ARG:HB3	2.18	0.58
47:BZ:72:ARG:CD	47:BZ:75:LEU:HD22	2.33	0.58
32:BK:130:TYR:O	32:BK:138:ILE:HG22	2.03	0.58
32:BK:57:ARG:CG	32:BK:61:ARG:HH21	2.16	0.58
24:BA:2116:G:C5'	24:BA:2117:A:OP2	2.48	0.58
26:BC:108:MET:SD	26:BC:131:LEU:CD2	2.87	0.58
26:BC:97:GLU:CG	26:BC:122:ALA:HB3	2.30	0.58
26:BC:32:LEU:HD13	26:BC:220:PRO:CB	2.33	0.58
1:AA:1173:G:H2'	1:AA:1174:G:H5''	1.85	0.58
33:BL:120:LEU:H	33:BL:120:LEU:HD23	1.68	0.58
1:AA:101:A:C4	1:AA:102:G:N7	2.72	0.58
1:AA:1143:G:N3	1:AA:1144:G:C8	2.71	0.58
1:AA:1181:G:O3'	1:AA:1184:G:H5'	2.04	0.58
1:AA:133:U:H5'	1:AA:134:A:P	2.44	0.58
1:AA:186(A):C:O2'	22:AW:89:ARG:NH2	2.36	0.58
1:AA:357:G:H1'	1:AA:368:U:O2	2.02	0.58
1:AA:482:A:C2'	1:AA:482:A:N3	2.66	0.58
1:AA:656:C:H2'	1:AA:657:G:H5'	1.85	0.58
1:AA:815:A:C2	1:AA:1527:C:O2	2.57	0.58
3:AC:25:C:H2'	3:AC:26:A:H8	1.68	0.58
4:AE:100:GLY:C	4:AE:104:ASN:HD21	2.07	0.58
4:AE:109:SER:O	4:AE:110:GLN:C	2.42	0.58
4:AE:169:LYS:C	4:AE:171:ALA:H	2.05	0.58
4:AE:19:HIS:CA	4:AE:39:ILE:HD11	2.34	0.58
6:AG:98:GLU:O	6:AG:103:ASN:HB3	2.04	0.58
6:AG:60:GLU:OE2	6:AG:202:LEU:HD12	2.02	0.58
6:AG:63:LYS:H	6:AG:63:LYS:HD2	1.67	0.58
7:AH:102:ALA:CB	7:AH:106:PRO:CB	2.79	0.58
7:AH:72:GLN:NE2	7:AH:144:THR:HA	2.18	0.58
9:AJ:115:ARG:CB	9:AJ:118:VAL:CG2	2.77	0.58
9:AJ:31:MET:CG	9:AJ:32:ARG:N	2.58	0.58
10:AK:119:LEU:HD12	10:AK:123:GLU:OE2	2.03	0.58
10:AK:30:ARG:O	10:AK:33:GLU:HB2	2.03	0.58
10:AK:6:ILE:CD1	10:AK:7:ALA:N	2.66	0.58
14:AO:85:ILE:HG13	14:AO:87:GLY:N	2.14	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AP:22:ILE:HB	15:AP:25:ILE:HG13	1.84	0.58
1:AA:1358:U:OP1	16:AQ:34:TYR:HA	2.02	0.58
17:AR:41:GLU:HA	17:AR:44:LYS:HE3	1.85	0.58
1:AA:375:U:O2'	18:AS:6:LEU:HD21	2.04	0.58
20:AU:17:SER:HB3	20:AU:54:ARG:CZ	2.34	0.58
20:AU:26:LEU:HD22	20:AU:39:VAL:CG2	2.33	0.58
22:AW:43:LEU:HD12	22:AW:55:ILE:CD1	2.24	0.58
50:B3:15:ILE:C	50:B3:16:CYS:SG	2.81	0.58
53:B6:11:LYS:HE3	53:B6:15:THR:HG21	1.84	0.58
53:B6:42:LEU:HD22	53:B6:44:PRO:HG3	1.86	0.58
53:B6:9:ARG:O	53:B6:13:ALA:HB2	2.03	0.58
54:B7:27:THR:H	54:B7:44:LYS:NZ	2.01	0.58
24:BA:1155:A:O2'	24:BA:1156:A:H5''	2.03	0.58
24:BA:1248:G:OP1	41:BT:2:PRO:N	2.35	0.58
24:BA:1472:A:N9	24:BA:1473:G:N7	2.52	0.58
24:BA:1555:G:H2'	24:BA:1556:C:C5	2.37	0.58
24:BA:1560:G:H2'	24:BA:1561:G:H8	1.67	0.58
24:BA:1671:U:O2	24:BA:1673:U:H5'	2.03	0.58
24:BA:1695:G:N2	24:BA:1696:G:C8	2.72	0.58
24:BA:1789:A:C2'	27:BD:213:ARG:HH12	2.16	0.58
1:AA:1517:G:H1'	24:BA:1920:C:P	2.43	0.58
24:BA:1928:A:C3'	24:BA:1929:G:H5'	2.33	0.58
24:BA:529:A:N6	24:BA:2023:G:C4	2.71	0.58
24:BA:2421:G:C2'	24:BA:2422:A:H8	1.96	0.58
24:BA:2445:G:C2'	24:BA:2446:G:C8	2.67	0.58
24:BA:2496:C:OP1	37:BP:83:MET:CE	2.52	0.58
24:BA:2539:C:H2'	24:BA:2540:C:H6	1.67	0.58
24:BA:2619:C:O2'	24:BA:2620:C:C5'	2.51	0.58
24:BA:2638:G:C8	24:BA:2775:A:N1	2.71	0.58
24:BA:2787:C:O2	28:BE:61:ARG:CZ	2.51	0.58
24:BA:386:G:H4'	24:BA:387:U:H5	1.68	0.58
24:BA:414:C:H1'	24:BA:1864:U:O2'	2.03	0.58
24:BA:470:A:C2'	24:BA:471:A:O5'	2.52	0.58
24:BA:502:A:H8	24:BA:502:A:H3'	1.66	0.58
24:BA:502:A:O2'	24:BA:503:A:H5'	2.04	0.58
24:BA:548:A:N6	24:BA:549:G:N2	2.49	0.58
24:BA:602:G:C8	24:BA:602:G:O5'	2.54	0.58
24:BA:714:U:C6	24:BA:714:U:OP2	2.56	0.58
24:BA:723:G:H21	24:BA:724:U:H1'	1.67	0.58
24:BA:85:G:H1'	24:BA:103:A:C2	2.37	0.58
24:BA:882:G:N2	24:BA:895:U:C2	2.71	0.58
24:BA:900:A:H2'	24:BA:901:A:O4'	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:966:G:C6	24:BA:967:C:N4	2.71	0.58
24:BA:973:A:H4'	24:BA:974:G:OP1	2.02	0.58
24:BA:973:A:O4'	24:BA:1188:U:C5	2.57	0.58
25:BB:87:G:C2	25:BB:90:C:N3	2.72	0.58
27:BD:136:ILE:CB	27:BD:168:ARG:NH2	2.59	0.58
27:BD:201:HIS:HD2	27:BD:202:LYS:CE	2.15	0.58
27:BD:199:ALA:HA	27:BD:202:LYS:HD3	1.85	0.58
27:BD:29:PRO:CB	27:BD:31:LYS:HZ2	2.15	0.58
27:BD:72:LYS:HZ1	27:BD:99:ASP:CG	2.06	0.58
28:BE:60:ASN:O	28:BE:61:ARG:C	2.42	0.58
29:BF:46:ARG:CA	29:BF:46:ARG:NE	2.66	0.58
30:BG:151:ALA:C	30:BG:152:LEU:HG	2.17	0.58
31:BH:119:GLU:C	31:BH:121:ILE:N	2.55	0.58
31:BH:24:VAL:HG13	31:BH:37:VAL:CG1	2.33	0.58
32:BK:38:LEU:C	32:BK:38:LEU:HD13	2.23	0.58
33:BL:104:VAL:HG13	33:BL:127:ILE:HD12	1.84	0.58
34:BM:33:LEU:C	34:BM:35:ARG:N	2.57	0.58
34:BM:3:THR:O	34:BM:4:TYR:CB	2.49	0.58
34:BM:82:LEU:O	34:BM:83:LYS:O	2.21	0.58
35:BN:68:GLU:OE1	35:BN:104:ARG:HD2	2.04	0.58
36:BO:89:ALA:O	36:BO:125:VAL:HG22	2.02	0.58
24:BA:2484:G:N3	37:BP:124:LYS:NZ	2.52	0.58
37:BP:48:GLU:CA	37:BP:51:ARG:HG3	2.33	0.58
42:BU:21:ARG:NH1	42:BU:21:ARG:HG3	2.13	0.58
43:BV:82:LEU:HD13	43:BV:83:LYS:N	2.17	0.58
44:BW:8:ILE:HD11	44:BW:42:ALA:CB	2.30	0.58
46:BY:29:TYR:CG	46:BY:72:ARG:NH2	2.72	0.58
46:BY:98:MET:HG3	46:BY:133:ILE:CG2	2.24	0.58
24:BA:923:C:H5'	47:BZ:26:TYR:CD1	2.38	0.58
32:BK:111:PRO:HG2	32:BK:112:LYS:H	1.68	0.58
32:BK:68:LEU:HD22	32:BK:107:VAL:HG11	1.86	0.58
3:AD:19:G:C5	24:BA:2112:G:N7	2.72	0.58
24:BA:2134:A:H2'	24:BA:2135:A:H5''	1.85	0.58
24:BA:2118:U:C5	24:BA:2147:G:N7	2.72	0.58
24:BA:2135:A:N7	24:BA:2160:G:C1'	2.66	0.58
26:BC:171:ILE:HG12	26:BC:172:HIS:H	1.67	0.58
2:A1:39:U:O3'	2:A1:40:U:H6	1.86	0.58
1:AA:1216:G:H2'	1:AA:1217:C:C6	2.38	0.58
1:AA:1253:G:H2'	1:AA:1254:C:O4'	2.03	0.58
1:AA:1309:G:C2	1:AA:1310:G:C8	2.90	0.58
1:AA:1253:G:N3	1:AA:1355:G:O2'	2.36	0.58
1:AA:1431:C:O2	1:AA:1432:G:O4'	2.21	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:42:G:H2'	1:AA:43:C:H6	1.66	0.58
1:AA:534:U:H5''	1:AA:535:A:OP2	2.03	0.58
1:AA:591:U:H2'	1:AA:592:G:C8	2.39	0.58
1:AA:67:C:O2	1:AA:171:A:H2	1.86	0.58
1:AA:697:U:C2'	1:AA:698:G:C8	2.83	0.58
1:AA:666:G:C2	1:AA:741:G:N3	2.71	0.58
1:AA:822:C:H2'	1:AA:823:G:H8	1.67	0.58
1:AA:908:A:N3	1:AA:909:A:C8	2.71	0.58
1:AA:914:A:H2'	1:AA:915:A:C8	2.38	0.58
1:AA:970:C:H4'	1:AA:972:C:C6	2.38	0.58
4:AE:111:ARG:NH1	4:AE:111:ARG:HA	2.08	0.58
4:AE:149:LEU:HD22	4:AE:153:ARG:HG2	1.85	0.58
4:AE:19:HIS:ND1	4:AE:204:ASN:ND2	2.52	0.58
4:AE:219:VAL:CG1	4:AE:222:ILE:HD11	2.32	0.58
4:AE:91:PRO:HG2	4:AE:155:LEU:HB2	1.85	0.58
5:AF:26:LYS:O	5:AF:28:GLN:HG3	2.04	0.58
6:AG:98:GLU:O	6:AG:100:ARG:N	2.37	0.58
7:AH:12:LEU:HG	7:AH:129:ILE:HD11	1.83	0.58
7:AH:63:ARG:HA	7:AH:66:MET:CG	2.33	0.58
7:AH:7:GLU:O	7:AH:34:VAL:HA	2.03	0.58
8:AI:77:ARG:N	8:AI:80:ARG:NH2	2.52	0.58
8:AI:98:LEU:CD2	20:AU:28:GLU:HA	2.33	0.58
7:AH:78:HIS:HB2	10:AK:104:ARG:HD3	1.83	0.58
10:AK:35:ILE:HD13	10:AK:118:VAL:HG21	1.85	0.58
1:AA:878:G:H5'	10:AK:89:PRO:HG2	1.85	0.58
11:AL:23:ASN:HD22	11:AL:23:ASN:C	2.05	0.58
1:AA:539:A:OP1	14:AO:114:LYS:HE2	2.03	0.58
17:AR:34:LEU:CD1	17:AR:35:ARG:N	2.67	0.58
18:AS:49:LEU:CD2	18:AS:73:LEU:HD21	2.32	0.58
19:AT:61:GLU:HA	19:AT:71:PHE:CD2	2.37	0.58
22:AW:65:LYS:O	22:AW:68:LYS:CG	2.52	0.58
49:B2:52:HIS:C	49:B2:54:VAL:H	2.07	0.58
50:B3:23:GLU:O	50:B3:25:TYR:N	2.32	0.58
52:B5:25:LYS:C	52:B5:26:ASN:CG	2.57	0.58
24:BA:458:G:C8	53:B6:38:GLY:O	2.57	0.58
24:BA:1000:A:C8	24:BA:1154:G:N2	2.71	0.58
24:BA:1203:G:C2	24:BA:1241:A:C8	2.91	0.58
24:BA:126:A:H2'	24:BA:127:A:C5'	2.32	0.58
24:BA:1313:U:OP2	24:BA:1313:U:C5	2.57	0.58
24:BA:1453:A:OP2	24:BA:1453:A:O4'	2.21	0.58
24:BA:1444(A):A:C8	24:BA:1460:A:H2'	2.38	0.58
24:BA:1499:C:O2	24:BA:1499:C:H2'	2.02	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1566:A:C2	27:BD:215:LEU:CD1	2.77	0.58
24:BA:1759:A:P	24:BA:1759:A:H8	2.26	0.58
24:BA:1798:U:H5'	27:BD:257:LEU:HB2	1.85	0.58
24:BA:1915:U:P	24:BA:1915:U:H3'	2.43	0.58
24:BA:1924:C:C2	24:BA:1925:C:C5	2.92	0.58
24:BA:1955:U:O3'	24:BA:1956:U:H5	1.85	0.58
24:BA:1973:G:C6	24:BA:1974:C:N4	2.71	0.58
24:BA:2029:G:H8	24:BA:2029:G:O5'	1.86	0.58
24:BA:204:A:O2'	24:BA:205:G:P	2.60	0.58
24:BA:2092:U:O5'	32:BK:29:TYR:OH	2.21	0.58
24:BA:2278:A:N1	24:BA:2279:G:C5	2.72	0.58
24:BA:2472:G:OP1	24:BA:2473:U:H5''	2.02	0.58
24:BA:2631:G:N2	28:BE:61:ARG:NH1	2.50	0.58
24:BA:2707:G:O2'	24:BA:2708:G:H5'	2.04	0.58
24:BA:2749:A:C6	24:BA:2750:A:N7	2.71	0.58
24:BA:280:C:H41	24:BA:283:A:N6	2.02	0.58
24:BA:2629:A:N6	24:BA:2895:U:C2	2.72	0.58
24:BA:31:C:HO2'	24:BA:32:C:H5'	1.69	0.58
24:BA:360:G:C2'	24:BA:361:G:C5'	2.81	0.58
24:BA:568:U:H2'	24:BA:570:G:N7	2.19	0.58
24:BA:60:G:O2'	24:BA:61:G:OP1	2.19	0.58
24:BA:689:A:H2'	24:BA:690:G:C5'	2.34	0.58
24:BA:783:A:H3'	27:BD:227:ASN:OD1	2.04	0.58
24:BA:838:C:H2'	24:BA:839:U:H6	1.67	0.58
24:BA:94:G:N2	24:BA:95:G:N3	2.51	0.58
24:BA:975:G:N1	24:BA:976:C:H6	2.01	0.58
25:BB:81:G:C6	25:BB:82:G:N7	2.72	0.58
27:BD:73:VAL:HG12	27:BD:120:GLY:CA	2.33	0.58
27:BD:152:GLY:O	27:BD:154:LYS:N	2.36	0.58
27:BD:147:LEU:HD23	27:BD:154:LYS:HG3	1.84	0.58
27:BD:159:ALA:CB	27:BD:202:LYS:HZ1	2.16	0.58
27:BD:55:GLY:CA	27:BD:217:ARG:CZ	2.81	0.58
27:BD:7:LYS:HD3	27:BD:9:TYR:CZ	2.38	0.58
33:BL:112:MET:HE1	33:BL:118:THR:CA	2.34	0.58
34:BM:95:PRO:HG2	34:BM:124:ALA:CB	2.33	0.58
34:BM:99:LEU:HD12	34:BM:99:LEU:C	2.23	0.58
35:BN:16:ALA:CB	35:BN:45:GLU:CB	2.81	0.58
35:BN:39:ILE:CA	35:BN:59:LYS:HZ1	2.16	0.58
37:BP:42:ILE:CD1	37:BP:42:ILE:C	2.72	0.58
38:BQ:98:LEU:H	38:BQ:114:VAL:HG22	1.67	0.58
40:BS:27:THR:HB	40:BS:95:ARG:H	1.67	0.58
43:BV:78:GLU:HG2	43:BV:99:ARG:HD2	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BW:26:TYR:CB	44:BW:28:PHE:HZ	2.16	0.58
44:BW:50:LYS:HG3	44:BW:84:ALA:CB	2.32	0.58
45:BX:74:PRO:HB2	45:BX:100:ALA:HB1	1.84	0.58
45:BX:2:ARG:HD2	45:BX:3:VAL:HG23	1.84	0.58
45:BX:37:VAL:HG13	45:BX:39:VAL:CB	2.33	0.58
46:BY:95:PRO:CD	46:BY:130:PRO:HA	2.33	0.58
24:BA:904:C:O4'	46:BY:169:GLU:CD	2.41	0.58
46:BY:44:PHE:HD2	46:BY:48:PHE:HE1	1.52	0.58
47:BZ:37:LEU:CD2	47:BZ:37:LEU:N	2.64	0.58
47:BZ:56:ASP:O	47:BZ:57:PHE:HB2	2.03	0.58
3:AD:9:A:C2	3:AD:46:G:C1'	2.86	0.58
3:AD:59:U:O2	3:AD:59:U:C2'	2.52	0.58
48:B1:3:LYS:O	48:B1:6:GLU:HB2	2.03	0.58
33:BL:98:ARG:CD	33:BL:139:VAL:HB	2.34	0.58
1:AA:1003:G:C2	1:AA:1004:A:O2'	2.53	0.58
1:AA:1244:C:OP2	23:AX:9:ARG:CD	2.49	0.58
1:AA:135:C:H6	1:AA:135:C:O5'	1.86	0.58
1:AA:1350:A:N6	1:AA:1373:G:C2	2.71	0.58
1:AA:1376:U:H2'	1:AA:1377:A:N7	2.19	0.58
1:AA:1389:C:H2'	1:AA:1390:U:O4'	2.03	0.58
1:AA:1395:C:H2'	1:AA:1396:A:H8	1.66	0.58
1:AA:7:G:H1'	1:AA:298:A:N9	2.17	0.58
1:AA:372:C:O2'	1:AA:373:A:OP2	2.14	0.58
1:AA:430:A:OP1	6:AG:9:CYS:CB	2.52	0.58
1:AA:523:A:C8	1:AA:523:A:O5'	2.57	0.58
1:AA:619:U:H3	6:AG:135:LEU:HD21	1.68	0.58
1:AA:765:G:HO2'	1:AA:766:A:H5'	1.62	0.58
1:AA:792:A:O2'	1:AA:794:A:N7	2.28	0.58
1:AA:881:G:C6	1:AA:882:C:C4	2.92	0.58
1:AA:965:A:H1'	1:AA:969:A:C8	2.39	0.58
1:AA:951:G:O2'	1:AA:972:C:H5	1.87	0.58
3:AC:28:G:H8	3:AC:28:G:O5'	1.87	0.58
4:AE:72:GLY:O	4:AE:74:LYS:N	2.35	0.58
4:AE:7:VAL:HG23	4:AE:8:LYS:N	2.13	0.58
5:AF:22:TRP:HH2	5:AF:33:LEU:N	2.01	0.58
5:AF:35:GLU:CA	5:AF:38:ARG:HG2	2.34	0.58
5:AF:38:ARG:HG3	5:AF:94:LEU:HD21	1.86	0.58
6:AG:166:LYS:CE	6:AG:178:VAL:HG12	2.31	0.58
9:AJ:100:ALA:HA	9:AJ:103:TRP:HE3	1.68	0.58
9:AJ:73:MET:HE2	9:AJ:146:GLU:HB2	1.85	0.58
9:AJ:34:GLY:O	9:AJ:36:LYS:N	2.37	0.58
9:AJ:37:ASN:CG	9:AJ:38:LEU:H	2.07	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AK:36:LEU:CA	10:AK:39:LEU:HB2	2.32	0.58
10:AK:82:HIS:O	10:AK:137:VAL:CG1	2.52	0.58
11:AL:34:ASN:OD1	11:AL:43:ALA:CB	2.51	0.58
11:AL:45:ALA:HB3	11:AL:74:ILE:HG22	1.84	0.58
12:AM:60:ARG:CA	12:AM:60:ARG:HH11	2.15	0.58
12:AM:39:PRO:CA	12:AM:70:ARG:HH11	2.17	0.58
16:AQ:12:ARG:O	16:AQ:13:THR:C	2.41	0.58
1:AA:375:U:C4'	18:AS:17:TYR:HE2	2.16	0.58
19:AT:98:LEU:HD13	19:AT:102:GLY:O	2.04	0.58
21:AV:74:PHE:HD1	21:AV:74:PHE:N	2.00	0.58
49:B2:10:LYS:HG3	49:B2:31:LEU:HD21	1.85	0.58
51:B4:19:ARG:NH1	51:B4:20:ARG:HH11	2.01	0.58
52:B5:27:LYS:HE3	52:B5:29:ASN:ND2	2.18	0.58
52:B5:46:HIS:CG	52:B5:47:THR:H	2.21	0.58
53:B6:25:PRO:HD3	53:B6:28:ARG:HH21	1.69	0.58
24:BA:1140:C:H5'	34:BM:65:LYS:NZ	2.19	0.58
24:BA:1202:C:C2	24:BA:1203:G:O2'	2.52	0.58
24:BA:1341:U:C2'	24:BA:1342:A:OP1	2.51	0.58
24:BA:1459:G:O6	24:BA:1461:G:N1	2.36	0.58
24:BA:1576:U:H2'	24:BA:1577:C:C6	2.39	0.58
24:BA:1629:U:H1'	24:BA:2699:C:OP1	2.04	0.58
24:BA:1703:G:C2	24:BA:1704:G:N9	2.72	0.58
24:BA:1966:A:O2'	24:BA:1967:C:OP2	2.20	0.58
24:BA:2018:G:H8	24:BA:2018:G:OP2	1.87	0.58
24:BA:806:C:O2'	24:BA:2445:G:O4'	2.21	0.58
24:BA:2519:U:H1'	24:BA:2542:A:N1	2.18	0.58
24:BA:2572:A:H5''	24:BA:2573:C:OP1	2.04	0.58
24:BA:1781:C:O2'	24:BA:2609:U:O4	2.16	0.58
24:BA:294:A:C2	24:BA:346:A:C2	2.91	0.58
24:BA:463:G:N2	24:BA:466:A:OP2	2.26	0.58
24:BA:475:U:N3	24:BA:479:A:N6	2.50	0.58
24:BA:602:G:H2'	24:BA:655:A:N1	2.18	0.58
24:BA:612:G:C2'	24:BA:615:G:H2'	2.34	0.58
24:BA:641:C:H5	24:BA:642:G:N3	2.02	0.58
24:BA:671:C:C2	24:BA:672:C:C5	2.92	0.58
24:BA:689:A:H2'	24:BA:690:G:O4'	2.02	0.58
24:BA:704:G:O2'	24:BA:705:A:OP2	2.16	0.58
24:BA:783:A:N6	24:BA:785:G:C8	2.72	0.58
24:BA:920:G:C2	24:BA:921:G:C8	2.91	0.58
24:BA:961:C:C4	24:BA:2031:A:C2	2.91	0.58
24:BA:969:U:C2	24:BA:970:C:C6	2.92	0.58
25:BB:52:A:C2'	25:BB:53:A:H5'	2.33	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:83:G:C2	25:BB:84:C:C6	2.91	0.58
27:BD:143:HIS:C	27:BD:145:VAL:N	2.54	0.58
27:BD:223:GLY:O	27:BD:225:ALA:N	2.36	0.58
29:BF:116:ASP:HA	29:BF:119:ARG:CG	2.33	0.58
29:BF:192:LEU:HD11	29:BF:194:MET:CG	2.26	0.58
29:BF:70:THR:O	29:BF:72:ARG:N	2.36	0.58
24:BA:1255:U:N3	29:BF:72:ARG:O	2.37	0.58
30:BG:56:ALA:CB	30:BG:68:PRO:HG2	2.33	0.58
31:BH:11:VAL:HG13	31:BH:15:VAL:HG12	1.85	0.58
31:BH:26:VAL:CB	31:BH:75:ALA:HB1	2.33	0.58
31:BH:76:VAL:CG2	31:BH:77:LYS:N	2.66	0.58
24:BA:662:G:H5'	36:BO:16:ARG:HA	1.86	0.58
37:BP:16:ARG:O	37:BP:17:LEU:HG	2.04	0.58
37:BP:75:THR:CG2	37:BP:77:LYS:H	2.14	0.58
24:BA:955:C:H5''	37:BP:87:LYS:HE2	1.86	0.58
38:BQ:100:LEU:CD1	38:BQ:101:ALA:H	2.16	0.58
38:BQ:94:TYR:O	38:BQ:117:VAL:HG12	2.02	0.58
38:BQ:11:ASN:CG	38:BQ:12:ARG:H	2.07	0.58
39:BR:64:GLU:C	39:BR:66:ALA:N	2.49	0.58
40:BS:37:GLY:HA3	40:BS:43:GLN:HA	1.85	0.58
42:BU:1:MET:O	42:BU:3:ALA:N	2.36	0.58
41:BT:88:ILE:CG2	42:BU:55:ALA:HB3	2.33	0.58
42:BU:67:GLY:CA	42:BU:94:LEU:HD23	2.33	0.58
43:BV:22:ASP:HA	43:BV:75:TYR:CZ	2.38	0.58
43:BV:40:ASN:O	43:BV:41:LYS:HB2	2.03	0.58
44:BW:26:TYR:HB3	44:BW:28:PHE:CZ	2.39	0.58
45:BX:84:ARG:HG2	45:BX:86:ARG:N	2.17	0.58
45:BX:42:VAL:HG22	45:BX:61:ILE:HG21	1.84	0.58
1:AA:1031:G:H2'	1:AA:1032:A:C8	2.37	0.58
1:AA:1313:U:O4	21:AV:4:SER:CB	2.51	0.58
1:AA:1430:C:C2'	1:AA:1431:C:O5'	2.50	0.58
1:AA:1465:C:O2	1:AA:1465:C:C2'	2.51	0.58
1:AA:148:G:H2'	1:AA:149:A:H8	1.68	0.58
1:AA:1490:C:C2'	1:AA:1491:G:C5'	2.81	0.58
1:AA:246:A:O2'	1:AA:247:G:P	2.61	0.58
1:AA:259:G:H5''	22:AW:83:ARG:NH2	2.19	0.58
1:AA:263:A:C3'	1:AA:264:U:H5''	2.33	0.58
1:AA:322:C:O2'	22:AW:23:ARG:HB2	2.04	0.58
1:AA:358:U:H2'	1:AA:359:U:C6	2.39	0.58
1:AA:611:A:H2'	1:AA:612:C:H6	1.68	0.58
1:AA:656:C:O2'	1:AA:657:G:H5'	2.03	0.58
1:AA:812:C:O4'	1:AA:813:U:C5	2.56	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:986:A:H1'	21:AV:55:LYS:HA	1.85	0.58
4:AE:33:TYR:CG	4:AE:43:ASP:HB2	2.38	0.58
4:AE:78:GLN:O	4:AE:94:ASN:ND2	2.37	0.58
4:AE:69:LEU:HD23	4:AE:91:PRO:HB3	1.86	0.58
5:AF:71:ALA:HB2	5:AF:106:VAL:CG2	2.34	0.58
5:AF:156:ARG:H	5:AF:163:ALA:HB1	1.67	0.58
6:AG:118:ARG:HG3	6:AG:136:PRO:HB2	1.84	0.58
6:AG:19:LEU:O	6:AG:26:CYS:SG	2.62	0.58
6:AG:24:GLU:CD	6:AG:25:ARG:N	2.56	0.58
7:AH:15:ARG:HG3	7:AH:15:ARG:HH11	1.69	0.58
7:AH:84:PHE:CD1	7:AH:134:ALA:HA	2.39	0.58
9:AJ:76:ARG:HD3	9:AJ:89:MET:HE1	1.86	0.58
10:AK:126:LYS:HZ1	10:AK:127:LEU:HD23	1.69	0.58
10:AK:51:VAL:CG1	10:AK:52:ASP:N	2.66	0.58
10:AK:67:PRO:HD2	10:AK:76:PRO:HB3	1.85	0.58
11:AL:37:PHE:HA	11:AL:40:LEU:HD12	1.84	0.58
13:AN:32:ILE:CG2	13:AN:40:ILE:HD11	2.22	0.58
14:AO:84:LEU:O	14:AO:100:ILE:HA	2.04	0.58
15:AP:14:ARG:O	15:AP:45:VAL:HG23	2.04	0.58
1:AA:1202:G:H1'	16:AQ:29:ARG:NE	2.17	0.58
20:AU:58:LEU:HD22	20:AU:62:GLU:CG	2.32	0.58
1:AA:1320:C:O2'	21:AV:73:GLU:HB3	2.04	0.58
48:B1:20:VAL:CG2	48:B1:24:LYS:HE3	2.32	0.58
48:B1:27:LEU:HG	48:B1:30:LEU:HD11	1.84	0.58
49:B2:3:ARG:CB	49:B2:3:ARG:HH11	2.14	0.58
50:B3:8:LYS:CG	50:B3:9:LEU:H	2.09	0.58
51:B4:44:THR:O	51:B4:52:TYR:OH	2.18	0.58
52:B5:41:PRO:HG2	52:B5:43:CYS:HB2	1.86	0.58
53:B6:34:ARG:HH22	53:B6:42:LEU:HG	1.67	0.58
24:BA:242:G:C8	54:B7:4:MET:CG	2.77	0.58
55:B8:28:GLU:O	55:B8:29:ASN:HB2	2.03	0.58
24:BA:1005:C:H1'	24:BA:1012:U:O2	2.04	0.58
24:BA:1021:A:C2'	24:BA:1022:G:OP1	2.49	0.58
24:BA:1200:C:C2	24:BA:1201:C:C5	2.91	0.58
24:BA:152:G:H22	24:BA:175:G:C1'	2.13	0.58
24:BA:1572:A:O2'	24:BA:1573:G:OP1	2.16	0.58
24:BA:1620:G:C5	24:BA:1621:U:C4	2.92	0.58
24:BA:1698:A:O2'	24:BA:1699:G:C3'	2.51	0.58
24:BA:1992:G:C6	24:BA:1997:G:C4	2.91	0.58
24:BA:2278:A:N7	47:BZ:14:ARG:CG	2.66	0.58
24:BA:2463:C:O2'	24:BA:2464:C:H5'	2.04	0.58
24:BA:2466:C:N4	24:BA:2485:G:C6	2.71	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2580:U:OP2	24:BA:2580:U:H6	1.87	0.58
24:BA:2603:G:H2'	24:BA:2604:U:O4'	2.03	0.58
24:BA:2657:A:C2	24:BA:2665:A:C1'	2.79	0.58
24:BA:2839:G:C2	24:BA:2880:C:C4	2.91	0.58
24:BA:38:A:H2'	24:BA:39:C:H6	1.68	0.58
24:BA:457:A:C2	24:BA:470:A:H5'	2.39	0.58
24:BA:515:A:C5'	41:BT:32:PHE:CZ	2.87	0.58
24:BA:558:G:P	34:BM:111:PRO:HG2	2.44	0.58
24:BA:637:A:H4'	24:BA:638:G:O4'	2.03	0.58
24:BA:650:C:OP1	54:B7:21:LYS:NZ	2.32	0.58
24:BA:673:C:C5'	29:BF:82:ILE:HD12	2.34	0.58
24:BA:771:G:H2'	24:BA:772:C:C6	2.38	0.58
24:BA:196:A:C6	24:BA:828:U:H5''	2.38	0.58
24:BA:909:A:N3	24:BA:912:C:C6	2.71	0.58
24:BA:942:G:O3'	36:BO:32:THR:HG22	2.02	0.58
25:BB:105:G:O2'	25:BB:106:G:H5'	2.02	0.58
27:BD:169:GLU:O	27:BD:172:TYR:O	2.22	0.58
27:BD:206:LEU:O	27:BD:206:LEU:CD2	2.50	0.58
24:BA:692:C:H4'	27:BD:42:GLY:HA3	1.85	0.58
29:BF:103:LYS:C	29:BF:106:ARG:HG2	2.24	0.58
30:BG:119:GLY:HA3	30:BG:180:PHE:CD1	2.39	0.58
30:BG:54:GLU:O	30:BG:57:ALA:CB	2.45	0.58
31:BH:124:GLU:HB2	31:BH:132:ARG:NE	2.19	0.58
33:BL:106:GLU:HA	33:BL:109:LYS:HG3	1.86	0.58
33:BL:10:LEU:HD23	33:BL:10:LEU:N	2.17	0.58
34:BM:17:ASP:OD1	34:BM:18:ALA:C	2.42	0.58
34:BM:62:VAL:C	34:BM:64:GLY:H	2.07	0.58
34:BM:97:ARG:O	34:BM:98:VAL:C	2.41	0.58
35:BN:106:LEU:O	35:BN:109:LYS:CA	2.51	0.58
36:BO:107:LYS:CE	36:BO:110:TYR:HB3	2.33	0.58
36:BO:131:SER:OG	36:BO:134:ALA:HB2	2.04	0.58
36:BO:126:VAL:HB	36:BO:146:VAL:HG23	1.86	0.58
37:BP:64:ILE:O	37:BP:65:PHE:HD2	1.87	0.58
39:BR:8:GLU:O	39:BR:10:ARG:N	2.36	0.58
42:BU:79:VAL:HB	42:BU:81:TYR:HD1	1.68	0.58
44:BW:31:HIS:CE1	44:BW:33:LYS:HD2	2.39	0.58
45:BX:109:GLU:O	45:BX:110:GLU:C	2.42	0.58
45:BX:70:SER:OG	45:BX:78:ALA:HA	2.03	0.58
46:BY:1:MET:HE3	46:BY:3:TYR:CD2	2.38	0.58
46:BY:44:PHE:CD2	46:BY:48:PHE:CE1	2.91	0.58
46:BY:76:LEU:HA	46:BY:83:PRO:HA	1.85	0.58
32:BK:111:PRO:HD2	32:BK:112:LYS:HZ3	1.67	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:BC:161:ILE:HD13	26:BC:173:ALA:HB1	1.85	0.58
1:AA:1026:G:O6	1:AA:1036:G:C2	2.57	0.58
1:AA:1038:C:H2'	1:AA:1039:C:C5	2.39	0.58
1:AA:1049:U:C1'	1:AA:1201:A:O4'	2.52	0.58
1:AA:1157:A:O4'	1:AA:1158:C:N3	2.37	0.58
1:AA:1193:G:C6	1:AA:1194:U:C4	2.91	0.58
1:AA:19:C:H1'	1:AA:864:A:N3	2.18	0.58
1:AA:230:G:N2	1:AA:231:G:N3	2.51	0.58
1:AA:241:C:O2'	1:AA:242:C:H5'	2.04	0.58
1:AA:123:C:OP1	1:AA:312:C:H5'	2.03	0.58
1:AA:375:U:C4'	18:AS:17:TYR:CE2	2.87	0.58
1:AA:391:G:C6	1:AA:392:G:C5	2.92	0.58
1:AA:428:G:O2'	1:AA:429:U:P	2.62	0.58
1:AA:448:A:O2'	1:AA:449:C:H5'	2.04	0.58
1:AA:676:A:H4'	13:AN:114:VAL:O	2.03	0.58
1:AA:689:C:C4	1:AA:690:G:N7	2.72	0.58
1:AA:719:C:H3'	1:AA:720:C:C5	2.39	0.58
1:AA:891:U:H5	1:AA:906:G:C2	2.21	0.58
1:AA:894:G:H2'	1:AA:895:G:H8	1.68	0.58
1:AA:934:C:O2	1:AA:937:A:N6	2.36	0.58
1:AA:978:A:N1	1:AA:1318:A:N6	2.52	0.58
4:AE:136:VAL:N	4:AE:139:LYS:NZ	2.51	0.58
4:AE:118:LEU:HD11	4:AE:141:GLU:CD	2.23	0.58
4:AE:150:SER:HA	4:AE:153:ARG:CG	2.34	0.58
4:AE:150:SER:O	4:AE:151:GLY:O	2.22	0.58
4:AE:80:ILE:HG23	4:AE:212:GLN:HE21	1.68	0.58
7:AH:34:VAL:CG2	7:AH:62:ALA:HB1	2.32	0.58
8:AI:30:LEU:HB3	8:AI:35:ALA:CB	2.33	0.58
8:AI:67:MET:SD	8:AI:67:MET:O	2.62	0.58
9:AJ:89:MET:SD	9:AJ:89:MET:N	2.76	0.58
11:AL:49:PRO:CG	11:AL:81:ILE:HB	2.34	0.58
13:AN:20:TYR:CZ	13:AN:83:ILE:HG12	2.39	0.58
15:AP:13:LYS:HA	15:AP:44:ARG:NH2	2.18	0.58
15:AP:81:LEU:CD2	15:AP:82:MET:HG2	2.30	0.58
16:AQ:14:PRO:O	16:AQ:15:LYS:C	2.41	0.58
17:AR:8:LYS:HE2	17:AR:12:ILE:HD11	1.86	0.58
17:AR:79:ARG:CG	17:AR:82:ILE:HD12	2.33	0.58
19:AT:10:VAL:CG2	19:AT:55:ASP:HB2	2.33	0.58
21:AV:15:LEU:HD12	21:AV:44:MET:HE1	1.86	0.58
21:AV:40:ILE:CG1	21:AV:71:LEU:HD23	2.34	0.58
21:AV:50:ALA:HB1	21:AV:57:HIS:HB3	1.85	0.58
22:AW:54:LYS:H	22:AW:100:ILE:HD11	1.69	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AW:56:MET:SD	22:AW:84:LEU:CD1	2.92	0.58
1:AA:1268:A:H4'	23:AX:20:LYS:HB2	1.86	0.58
48:B1:26:GLU:O	48:B1:29:GLU:HB2	2.03	0.58
48:B1:32:PHE:CD1	48:B1:32:PHE:N	2.72	0.58
24:BA:95:G:H4'	48:B1:39:LEU:C	2.24	0.58
48:B1:24:LYS:HG2	48:B1:52:ILE:HG21	1.85	0.58
50:B3:64:GLY:O	50:B3:67:TYR:N	2.37	0.58
53:B6:10:ARG:C	53:B6:14:LYS:HG3	2.24	0.58
54:B7:15:LYS:O	54:B7:22:VAL:CA	2.50	0.58
36:BO:49:ARG:HG3	54:B7:52:LYS:HG3	1.85	0.58
24:BA:1343:G:N2	24:BA:1405:U:C1'	2.66	0.58
24:BA:1366:A:C2	24:BA:1367:A:C4	2.91	0.58
24:BA:1531:C:O2	24:BA:1532:C:C5	2.56	0.58
24:BA:1609:A:C8	24:BA:1616:A:C1'	2.86	0.58
24:BA:1628:G:H2'	24:BA:1629:U:C6	2.39	0.58
24:BA:1695:G:C3'	24:BA:1695:G:N3	2.62	0.58
24:BA:1919:A:C2'	24:BA:1920:C:H5'	2.33	0.58
24:BA:1925:C:C2	24:BA:1929:G:O6	2.57	0.58
24:BA:2055:C:H4'	24:BA:2056:G:O5'	2.04	0.58
24:BA:2093:G:H5'	32:BK:25:TYR:CG	2.39	0.58
24:BA:2263:C:C2'	24:BA:2264:C:H5'	2.33	0.58
24:BA:2311:A:C3'	24:BA:2312:U:C5	2.80	0.58
24:BA:239:U:O2'	24:BA:240:G:C5'	2.51	0.58
24:BA:2423:U:C2'	24:BA:2423:U:O2	2.51	0.58
24:BA:2647:U:H2'	24:BA:2648:C:C6	2.37	0.58
24:BA:2675:A:N6	24:BA:2732:G:H1	2.00	0.58
24:BA:2687:U:O2	24:BA:2687:U:C2'	2.51	0.58
24:BA:2719:G:O5'	24:BA:2719:G:H8	1.87	0.58
24:BA:304:G:H2'	24:BA:305:U:H6	1.68	0.58
24:BA:361:G:C2'	24:BA:362:U:O4'	2.52	0.58
24:BA:429:A:H2'	24:BA:430:G:N7	2.18	0.58
24:BA:650:C:O2	24:BA:650:C:H2'	2.03	0.58
24:BA:723:G:H2'	24:BA:724:U:H6	1.69	0.58
24:BA:71:A:O2'	24:BA:72:U:C5'	2.52	0.58
24:BA:763:G:N3	24:BA:765:G:H1'	2.19	0.58
24:BA:684:G:N2	24:BA:794:G:C2	2.72	0.58
25:BB:68:C:C3'	25:BB:69:G:H8	2.16	0.58
27:BD:16:MET:O	27:BD:19:ALA:HB3	2.03	0.58
27:BD:171:ASP:O	27:BD:186:HIS:HB3	2.04	0.58
24:BA:1791:A:OP1	27:BD:213:ARG:HD3	2.04	0.58
24:BA:1825:A:O2'	27:BD:252:TRP:CH2	2.55	0.58
27:BD:258:LYS:HA	27:BD:261:LYS:CD	2.34	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:29:PRO:HG3	27:BD:82:ILE:C	2.24	0.58
27:BD:92:ILE:HD11	27:BD:104:TYR:CD1	2.39	0.58
28:BE:117:MET:SD	28:BE:136:ARG:CG	2.78	0.58
28:BE:51:PHE:CE1	28:BE:75:VAL:HG22	2.39	0.58
28:BE:8:LYS:HD2	40:BS:3:ARG:HA	1.85	0.58
29:BF:192:LEU:HD22	29:BF:193:VAL:H	1.68	0.58
29:BF:75:HIS:NE2	29:BF:80:ALA:HB3	2.19	0.58
30:BG:125:PHE:CD2	30:BG:129:GLY:N	2.72	0.58
30:BG:162:THR:O	30:BG:164:GLU:N	2.31	0.58
30:BG:181:ARG:N	30:BG:181:ARG:CD	2.58	0.58
30:BG:26:GLN:HG2	30:BG:29:TRP:CE3	2.38	0.58
30:BG:30:GLU:HG2	30:BG:33:ARG:CD	2.34	0.58
30:BG:44:GLY:O	30:BG:47:LYS:N	2.36	0.58
31:BH:103:LEU:CB	31:BH:105:LEU:HD11	2.34	0.58
31:BH:76:VAL:CG2	31:BH:77:LYS:H	2.16	0.58
34:BM:134:ARG:O	34:BM:137:LYS:HE3	2.02	0.58
35:BN:16:ALA:HB2	35:BN:46:ALA:O	2.04	0.58
36:BO:45:LEU:HD22	54:B7:59:LYS:CD	2.32	0.58
37:BP:116:GLU:HA	37:BP:119:ARG:CG	2.33	0.58
37:BP:9:TYR:N	37:BP:9:TYR:CD2	2.71	0.58
39:BR:13:ARG:NH1	39:BR:94:TYR:OH	2.37	0.58
40:BS:68:TYR:CE1	40:BS:69:GLY:O	2.57	0.58
42:BU:1:MET:O	42:BU:2:PHE:C	2.42	0.58
44:BW:18:TYR:OH	44:BW:96:ILE:HG12	2.03	0.58
44:BW:36:LYS:HE3	44:BW:56:THR:HG23	1.84	0.58
45:BX:12:THR:HA	45:BX:73:ARG:NE	2.19	0.58
45:BX:45:VAL:HA	45:BX:57:GLN:HG2	1.86	0.58
45:BX:72:VAL:O	45:BX:73:ARG:HG3	2.03	0.58
32:BK:58:LEU:HA	32:BK:61:ARG:CG	2.33	0.58
24:BA:2178:C:O2'	26:BC:168:THR:HB	2.04	0.58
32:BK:133:HIS:O	32:BK:136:VAL:HG22	2.03	0.58
19:AT:99:SER:C	19:AT:100:LYS:HG2	2.24	0.58
1:AA:1089:G:H2'	1:AA:1090:U:C5'	2.32	0.58
1:AA:1104:G:H2'	1:AA:1105:A:C8	2.39	0.58
1:AA:1180:A:OP1	11:AL:102:LEU:CD1	2.48	0.58
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.68	0.58
1:AA:1333:A:H2'	1:AA:1334:G:C8	2.39	0.58
1:AA:243:A:O2'	1:AA:244:U:OP2	2.16	0.58
1:AA:296:U:H1'	1:AA:302:G:H22	1.63	0.58
1:AA:413:G:H22	1:AA:428:G:C2'	2.17	0.58
1:AA:486:U:H2'	1:AA:487:A:C5'	2.34	0.58
1:AA:684:A:H1'	13:AN:39:PRO:HD2	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:750:G:H1'	17:AR:23:GLY:N	2.18	0.58
1:AA:939:G:C2	1:AA:940:C:C4	2.91	0.58
3:AB:55:U:O2	3:AB:55:U:C2'	2.50	0.58
3:AB:75:C:O2	3:AB:75:C:H2'	2.04	0.58
3:AC:21:A:N1	3:AC:48:C:C2	2.71	0.58
3:AC:73:A:C2'	3:AC:74:C:OP1	2.52	0.58
3:AD:76:A:H2	24:BA:2432:A:P	2.27	0.58
4:AE:189:ASP:O	4:AE:191:ASP:N	2.36	0.58
4:AE:87:ARG:NH2	4:AE:219:VAL:HG11	2.19	0.58
4:AE:60:ASP:C	4:AE:64:ARG:NH1	2.57	0.58
4:AE:67:THR:HB	4:AE:90:MET:SD	2.43	0.58
4:AE:82:ARG:HA	4:AE:92:TYR:CZ	2.39	0.58
6:AG:13:ARG:HH21	6:AG:40:PRO:CA	2.14	0.58
6:AG:193:ASP:OD2	6:AG:194:LEU:HD21	2.04	0.58
6:AG:78:LEU:O	6:AG:79:PHE:C	2.43	0.58
7:AH:28:PHE:HE1	7:AH:49:PRO:C	2.06	0.58
9:AJ:133:GLY:O	9:AJ:137:LYS:HG3	2.03	0.58
11:AL:26:VAL:HG22	11:AL:61:ALA:CB	2.34	0.58
11:AL:49:PRO:CD	11:AL:78:LYS:HG2	2.29	0.58
14:AO:119:LYS:HB3	14:AO:120:TYR:HD1	1.69	0.58
15:AP:20:THR:HA	15:AP:25:ILE:HB	1.84	0.58
17:AR:75:PRO:O	17:AR:79:ARG:N	2.31	0.58
20:AU:26:LEU:HD22	20:AU:39:VAL:HG22	1.85	0.58
22:AW:49:ALA:O	22:AW:52:ALA:HB3	2.04	0.58
22:AW:64:ASP:O	22:AW:65:LYS:C	2.41	0.58
22:AW:72:LEU:HD22	22:AW:76:ALA:CB	2.34	0.58
48:B1:59:LEU:HD11	48:B1:63:ARG:HD3	1.86	0.58
50:B3:11:PRO:O	50:B3:12:ALA:HB2	2.03	0.58
24:BA:1029:A:O2'	24:BA:1030:G:H5'	2.04	0.58
24:BA:105:C:C2	24:BA:106:C:C5	2.92	0.58
24:BA:1062:G:H5''	24:BA:1070:A:H5'	1.86	0.58
24:BA:114:U:H2'	24:BA:115:C:H6	1.67	0.58
24:BA:1394:U:H5''	24:BA:1604:C:OP1	2.04	0.58
24:BA:1439:A:N7	24:BA:1440:G:C4	2.71	0.58
24:BA:1467:C:N4	24:BA:1468:C:N4	2.52	0.58
24:BA:147:U:H2'	24:BA:148:C:C6	2.39	0.58
24:BA:1491:G:H2'	24:BA:1492:G:C4'	2.26	0.58
24:BA:1658:C:OP1	28:BE:134:ILE:CB	2.51	0.58
24:BA:1804:C:P	27:BD:257:LEU:HD22	2.44	0.58
24:BA:1950:G:C5	24:BA:1951:U:C5	2.92	0.58
24:BA:1956:U:C2	24:BA:1957:C:C5	2.92	0.58
24:BA:2029:G:H1	24:BA:2033:A:P	2.25	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2291:U:C2	24:BA:2292:C:C5	2.92	0.58
24:BA:249:C:H5'	24:BA:2394:C:O2'	2.04	0.58
24:BA:2463:C:H2'	24:BA:2464:C:H5'	1.84	0.58
24:BA:2509:G:N2	24:BA:2510:C:H1'	2.18	0.58
24:BA:2659:G:C2'	24:BA:2661:G:OP2	2.52	0.58
24:BA:2785:C:H2'	24:BA:2786:U:C6	2.38	0.58
24:BA:344:G:H2'	24:BA:345:A:O4'	2.04	0.58
24:BA:374:A:N6	24:BA:401:A:C1'	2.67	0.58
24:BA:223:A:C5	24:BA:408:G:C1'	2.87	0.58
24:BA:500:G:H2'	24:BA:501:A:C5'	2.33	0.58
24:BA:448:U:O4	24:BA:583:G:N3	2.37	0.58
24:BA:610:C:H2'	24:BA:611:C:C6	2.38	0.58
24:BA:650:C:P	54:B7:21:LYS:NZ	2.77	0.58
24:BA:666:G:OP2	24:BA:666:G:H3'	2.03	0.58
24:BA:740:U:O2'	24:BA:741:G:O5'	2.21	0.58
24:BA:674:G:C2	24:BA:807:U:O4	2.57	0.58
24:BA:586:A:N6	24:BA:810:U:H5'	2.19	0.58
24:BA:880:G:N3	24:BA:881:G:H1'	2.18	0.58
27:BD:12:SER:HB2	27:BD:14:ARG:HH21	1.68	0.58
27:BD:23:GLU:C	27:BD:23:GLU:CD	2.62	0.58
27:BD:59:LYS:CD	27:BD:59:LYS:C	2.72	0.58
27:BD:78:LYS:HA	27:BD:115:GLN:O	2.04	0.58
28:BE:179:GLU:C	28:BE:181:LEU:HG	2.24	0.58
29:BF:203:GLN:N	29:BF:203:GLN:NE2	2.52	0.58
30:BG:138:GLN:C	30:BG:140:ILE:H	2.05	0.58
31:BH:74:ASN:O	31:BH:75:ALA:C	2.40	0.58
32:BK:5:LEU:HG	32:BK:17:GLN:O	2.04	0.58
24:BA:1096:A:H62	33:BL:30:HIS:CB	2.15	0.58
34:BM:107:LEU:HD21	34:BM:113:GLY:CA	2.31	0.58
34:BM:74:ARG:HD2	34:BM:82:LEU:HD13	1.86	0.58
36:BO:46:LYS:CE	36:BO:46:LYS:N	2.64	0.58
36:BO:47:ASP:HB3	36:BO:48:PRO:HD3	1.86	0.58
36:BO:58:THR:HG22	36:BO:60:MET:H	1.69	0.58
37:BP:51:ARG:NH2	37:BP:63:LYS:HZ1	2.02	0.58
37:BP:68:ILE:HG21	37:BP:95:ALA:CB	2.34	0.58
39:BR:103:GLU:HA	39:BR:106:ARG:HB3	1.85	0.58
41:BT:87:GLY:C	41:BT:89:GLU:H	2.06	0.58
41:BT:40:PHE:CD2	42:BU:78:LYS:HE2	2.39	0.58
45:BX:14:LEU:HD22	45:BX:20:TYR:H	1.68	0.58
45:BX:8:LYS:HA	45:BX:28:LYS:CD	2.31	0.58
46:BY:167:PRO:O	46:BY:168:GLU:HB3	2.03	0.58
24:BA:904:C:O4'	46:BY:169:GLU:OE2	2.21	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BK:132:PRO:HD3	32:BK:138:ILE:HG22	1.84	0.58
3:AD:18:G:N3	3:AD:58:A:O4'	2.35	0.58
3:AD:21:A:C2'	3:AD:22:G:O4'	2.51	0.58
24:BA:2127:G:C5'	26:BC:36:LYS:HG2	2.33	0.58
26:BC:104:LEU:HD13	26:BC:130:ILE:CD1	2.34	0.58
24:BA:1486:A:H2'	24:BA:1487:G:O4'	2.04	0.58
24:BA:182:A:OP2	24:BA:182:A:H8	1.87	0.58
33:BL:128:ALA:HB1	33:BL:138:VAL:HG11	1.85	0.58
1:AA:1067:A:O2'	1:AA:1068:G:P	2.62	0.58
1:AA:1134:G:C6	1:AA:1135:U:H1'	2.39	0.58
1:AA:1394:A:O2'	1:AA:1395:C:P	2.61	0.58
1:AA:191:G:H1'	22:AW:105:SER:CA	2.27	0.58
1:AA:429:U:H5'	1:AA:430:A:OP1	2.03	0.58
1:AA:571:U:O4	1:AA:865:A:N1	2.37	0.58
1:AA:859:A:H2'	1:AA:860:A:C5'	2.34	0.58
1:AA:954:G:H2'	1:AA:955:U:O4'	2.04	0.58
3:AB:8:U:H2'	3:AB:22:G:O6	2.04	0.58
4:AE:61:LEU:N	4:AE:64:ARG:HH11	2.01	0.58
7:AH:105:VAL:O	7:AH:109:ILE:HG22	2.04	0.58
7:AH:76:ILE:HG22	7:AH:78:HIS:HD2	1.69	0.58
10:AK:38:ILE:CD1	10:AK:118:VAL:HB	2.34	0.58
10:AK:17:THR:HB	10:AK:18:ARG:CZ	2.33	0.58
1:AA:755:G:N3	10:AK:1:MET:HE1	2.18	0.58
10:AK:5:PRO:CA	10:AK:8:ASP:HB3	2.34	0.58
10:AK:5:PRO:C	10:AK:8:ASP:HB3	2.24	0.58
13:AN:111:ASP:OD2	13:AN:113:PRO:CD	2.46	0.58
13:AN:54:ARG:C	13:AN:56:GLY:H	2.07	0.58
5:AF:29:TYR:OH	16:AQ:54:PRO:HB2	2.02	0.58
17:AR:26:GLU:HA	17:AR:26:GLU:OE2	2.04	0.58
18:AS:27:LYS:HB2	18:AS:27:LYS:HZ2	1.69	0.58
19:AT:34:LYS:HD2	19:AT:35:VAL:H	1.69	0.58
1:AA:189:U:C2	19:AT:63:ARG:NH2	2.72	0.58
21:AV:21:GLU:O	21:AV:24:ALA:CB	2.52	0.58
21:AV:64:GLU:O	21:AV:67:VAL:HG23	2.03	0.58
1:AA:186(A):C:H1'	22:AW:104:LEU:HD21	1.84	0.58
49:B2:5:LYS:HZ2	49:B2:59:VAL:CG2	2.17	0.58
49:B2:5:LYS:HE2	49:B2:57:GLU:OE1	2.04	0.58
50:B3:10:VAL:O	50:B3:40:HIS:HD2	1.87	0.58
54:B7:29:LYS:NZ	54:B7:36:LYS:NZ	2.52	0.58
24:BA:1071:G:N2	24:BA:1090:U:C5	2.71	0.58
24:BA:1104:C:H2'	24:BA:1105:U:C6	2.38	0.58
24:BA:1199:U:C2	24:BA:1200:C:C5	2.92	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1210:A:H1'	24:BA:1212:G:H21	1.69	0.58
24:BA:1223:C:O2	24:BA:1225:C:H5''	2.04	0.58
24:BA:1491:G:H3'	24:BA:1492:G:H4'	1.84	0.58
24:BA:1531:C:C2	24:BA:1532:C:H5	2.22	0.58
24:BA:1630(A):C:O2	24:BA:1633:G:O6	2.22	0.58
24:BA:1656:C:OP1	28:BE:117:MET:HB2	2.04	0.58
24:BA:1670:C:C6	24:BA:1671:U:C6	2.92	0.58
24:BA:1759:A:H5'	24:BA:2715:C:C1'	2.33	0.58
24:BA:1773:A:C5	24:BA:1774:C:O2	2.57	0.58
24:BA:1838:C:C2'	24:BA:1838:C:O2	2.52	0.58
24:BA:2000:G:C2	24:BA:2001:A:N7	2.72	0.58
24:BA:2443:C:H2'	24:BA:2444:G:C8	2.28	0.58
24:BA:246:C:N4	24:BA:252:G:H1	2.01	0.58
24:BA:2479:G:H5''	24:BA:2537:U:H4'	1.86	0.58
24:BA:252:G:C2	24:BA:253:C:C6	2.92	0.58
24:BA:25:U:O2	24:BA:25:U:H2'	2.03	0.58
24:BA:2748:A:C6	24:BA:2757:A:N6	2.72	0.58
24:BA:600:G:O2'	29:BF:104:LYS:HG2	2.04	0.58
24:BA:670:A:H5''	24:BA:671:C:OP1	2.03	0.58
24:BA:76:C:H2'	24:BA:76:C:O2	2.03	0.58
25:BB:52:A:H2'	25:BB:53:A:H5'	1.85	0.58
24:BA:1791:A:O3'	27:BD:206:LEU:CD2	2.52	0.58
24:BA:1971:A:C2	27:BD:239:ARG:HB3	2.39	0.58
27:BD:244:ARG:O	27:BD:252:TRP:CD1	2.57	0.58
24:BA:1804:C:OP1	27:BD:257:LEU:HD22	2.04	0.58
28:BE:104:VAL:HG21	28:BE:198:VAL:HG22	1.85	0.58
28:BE:128:SER:OG	28:BE:129:HIS:HD2	1.86	0.58
28:BE:156:MET:O	28:BE:160:TYR:CE1	2.57	0.58
29:BF:156:LEU:HG	29:BF:173:VAL:CG2	2.34	0.58
29:BF:82:ILE:O	29:BF:83:PHE:HB3	2.04	0.58
30:BG:39:ILE:HG13	30:BG:157:ILE:CG1	2.34	0.58
30:BG:26:GLN:OE1	30:BG:29:TRP:HE3	1.87	0.58
33:BL:42:ASN:O	33:BL:46:ALA:HB2	2.03	0.58
35:BN:101:PRO:O	35:BN:102:VAL:HB	2.02	0.58
35:BN:23:ARG:CD	35:BN:23:ARG:N	2.67	0.58
35:BN:9:GLU:HB2	35:BN:81:ASP:O	2.03	0.58
36:BO:116:GLY:C	36:BO:121:LYS:HB3	2.24	0.58
36:BO:117:GLU:OE2	36:BO:117:GLU:N	2.34	0.58
36:BO:134:ALA:O	36:BO:135:LEU:C	2.39	0.58
36:BO:15:ARG:NH2	36:BO:16:ARG:H	2.01	0.58
24:BA:1249:U:H3	36:BO:21:ARG:NH1	2.00	0.58
37:BP:37:LEU:CA	37:BP:100:GLY:HA2	2.33	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:109:VAL:HG21	37:BP:114:ALA:N	2.19	0.58
37:BP:94:VAL:HG23	37:BP:95:ALA:H	1.67	0.58
24:BA:2690:C:H5	38:BQ:14:SER:HB2	1.65	0.58
38:BQ:52:ILE:O	38:BQ:55:ALA:HB3	2.03	0.58
39:BR:68:GLN:O	39:BR:69:VAL:C	2.42	0.58
39:BR:49:VAL:HG22	39:BR:76:LYS:HZ2	1.68	0.58
40:BS:10:VAL:HB	40:BS:11:GLU:OE2	2.04	0.58
40:BS:28:VAL:HG22	40:BS:93:ARG:C	2.25	0.58
41:BT:59:ARG:HA	41:BT:62:ILE:CD1	2.33	0.58
42:BU:43:GLU:N	42:BU:44:LYS:NZ	2.37	0.58
44:BW:63:LYS:HA	44:BW:63:LYS:HZ3	1.69	0.58
44:BW:63:LYS:NZ	44:BW:72:LYS:HE2	2.18	0.58
45:BX:37:VAL:HG13	45:BX:39:VAL:HB	1.85	0.58
45:BX:69:ALA:HB3	45:BX:71:LYS:NZ	2.19	0.58
46:BY:41:LEU:O	46:BY:42:VAL:C	2.42	0.58
46:BY:78:LYS:O	46:BY:80:ARG:N	2.37	0.58
26:BC:22:ILE:HG22	26:BC:186:ALA:HA	1.86	0.58
1:AA:341:C:O2'	1:AA:342:C:H5'	2.04	0.58
2:A1:30:U:C2'	2:A1:31:U:O4'	2.40	0.57
1:AA:1059:C:O2'	12:AM:53:PRO:HD3	2.04	0.57
1:AA:106:C:O2	1:AA:379:C:H4'	2.04	0.57
1:AA:1178:G:N2	1:AA:1180:A:C5'	2.67	0.57
1:AA:1275:A:H2'	1:AA:1276:G:H5'	1.86	0.57
1:AA:1367:C:OP1	11:AL:115:GLY:CA	2.51	0.57
1:AA:815:A:H2	1:AA:1527:C:O2	1.87	0.57
1:AA:197:A:N6	1:AA:221:C:C5'	2.65	0.57
1:AA:225:C:C2'	1:AA:226:G:C5'	2.79	0.57
1:AA:522:C:H1'	1:AA:536:C:H5''	1.85	0.57
1:AA:644:G:C2'	1:AA:645:C:H5'	2.33	0.57
1:AA:689:C:OP2	13:AN:46:GLY:HA3	2.04	0.57
1:AA:835:U:OP1	20:AU:64:ARG:NH1	2.33	0.57
1:AA:908:A:H2'	1:AA:909:A:H8	1.68	0.57
1:AA:935:A:H2'	1:AA:936:C:H6	1.69	0.57
3:AC:60:U:C5'	3:AC:61:C:OP2	2.48	0.57
4:AE:200:ILE:O	4:AE:200:ILE:HG22	2.02	0.57
4:AE:80:ILE:HD13	4:AE:211:ILE:HG22	1.86	0.57
4:AE:215:LEU:O	4:AE:215:LEU:HD13	2.03	0.57
4:AE:55:PHE:CE2	4:AE:218:ALA:HA	2.39	0.57
4:AE:84:GLU:HG3	4:AE:212:GLN:OE1	2.03	0.57
6:AG:18:LYS:C	6:AG:20:TYR:H	2.06	0.57
7:AH:62:ALA:HB3	7:AH:63:ARG:HE	1.68	0.57
7:AH:80:ILE:HG21	7:AH:142:LEU:HD21	1.86	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AJ:50:ILE:CD1	9:AJ:58:PRO:HB3	2.34	0.57
10:AK:112:LEU:HD12	10:AK:131:GLY:C	2.24	0.57
10:AK:14:ARG:O	10:AK:17:THR:CB	2.48	0.57
10:AK:39:LEU:O	10:AK:43:GLY:O	2.22	0.57
11:AL:82:ALA:HB2	11:AL:101:PHE:CZ	2.39	0.57
11:AL:65:VAL:HG21	11:AL:77:ILE:HD11	1.85	0.57
13:AN:28:THR:CG2	13:AN:29:ILE:N	2.67	0.57
14:AO:5:PRO:O	14:AO:6:THR:CG2	2.52	0.57
15:AP:80:ARG:O	15:AP:84:ILE:HG12	2.04	0.57
16:AQ:34:TYR:N	16:AQ:34:TYR:CD1	2.71	0.57
18:AS:19:ILE:HB	18:AS:37:GLY:C	2.23	0.57
18:AS:49:LEU:HD12	18:AS:50:LYS:N	2.19	0.57
20:AU:46:GLU:N	20:AU:46:GLU:OE2	2.37	0.57
22:AW:49:ALA:HB3	22:AW:99:LEU:HD11	1.85	0.57
49:B2:10:LYS:HZ3	49:B2:12:PRO:CD	2.17	0.57
49:B2:4:LEU:CB	49:B2:37:LEU:HD23	2.18	0.57
50:B3:43:TYR:CA	50:B3:61:ARG:HH22	2.07	0.57
50:B3:58:ARG:HB3	50:B3:62:ARG:NH2	2.18	0.57
51:B4:35:GLU:CG	51:B4:49:CYS:HB3	2.34	0.57
51:B4:50:GLY:O	51:B4:51:TYR:HB3	2.04	0.57
52:B5:16:CYS:CB	52:B5:49:HIS:CA	2.67	0.57
54:B7:44:LYS:HG3	54:B7:44:LYS:O	2.03	0.57
24:BA:1061:U:O2'	24:BA:1070:A:H1'	2.03	0.57
24:BA:1124:C:H3'	24:BA:1125:G:C8	2.39	0.57
24:BA:1183:G:H1'	24:BA:1184:G:N7	2.18	0.57
24:BA:1264:G:OP2	24:BA:1265:A:H2	1.86	0.57
24:BA:141:A:H2'	24:BA:141:A:N3	2.18	0.57
24:BA:1664:A:C8	24:BA:1664:A:C3'	2.86	0.57
24:BA:1675:C:O2	24:BA:1675:C:C2'	2.52	0.57
24:BA:1688:U:O2'	24:BA:1689:A:OP2	2.20	0.57
24:BA:1753:G:H2'	24:BA:1755:A:N7	2.19	0.57
24:BA:739:G:C2'	24:BA:1784:A:H61	2.17	0.57
24:BA:1857:G:N7	24:BA:1883:G:O6	2.37	0.57
24:BA:2003:G:C6	24:BA:2004:G:C6	2.92	0.57
24:BA:2283:C:N3	24:BA:2284:C:H1'	2.19	0.57
24:BA:2377:A:H2'	24:BA:2378:A:C8	2.39	0.57
24:BA:2472:G:H3'	24:BA:2475:C:H42	1.69	0.57
24:BA:2479:G:H5''	24:BA:2537:U:C4'	2.35	0.57
24:BA:2508:G:C2'	24:BA:2509:G:H5'	2.34	0.57
24:BA:2723:C:HO2'	38:BQ:2:ARG:N	2.01	0.57
24:BA:2733:A:N7	24:BA:2734:A:C8	2.72	0.57
24:BA:2747:G:N2	24:BA:2748:A:H62	2.01	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2777:G:C8	24:BA:2777:G:C3'	2.86	0.57
24:BA:2781:A:C2'	24:BA:2782:G:H4'	2.34	0.57
24:BA:481:G:H2'	24:BA:507:A:N6	2.18	0.57
24:BA:500:G:H1'	24:BA:502:A:OP2	2.04	0.57
24:BA:506:G:HO2'	24:BA:507:A:H8	1.51	0.57
24:BA:581:C:H5"	41:BT:32:PHE:CG	2.39	0.57
24:BA:611:C:O2	24:BA:616:A:H2	1.87	0.57
24:BA:669:G:N3	24:BA:801:G:N2	2.52	0.57
24:BA:738:G:H2'	24:BA:739:G:H1'	1.85	0.57
24:BA:942:G:C6	24:BA:943:U:O4	2.57	0.57
24:BA:972:G:OP1	24:BA:974(A):C:C5'	2.47	0.57
25:BB:73:A:N6	25:BB:104:A:C1'	2.67	0.57
27:BD:158:ALA:C	27:BD:160:GLY:N	2.57	0.57
28:BE:111:ARG:HB2	28:BE:160:TYR:O	2.03	0.57
28:BE:105:THR:CG2	28:BE:199:ARG:NH2	2.67	0.57
28:BE:51:PHE:CD1	28:BE:52:LEU:N	2.72	0.57
29:BF:106:ARG:HG3	29:BF:107:LYS:H	1.67	0.57
29:BF:40:GLN:N	29:BF:184:TYR:OH	2.37	0.57
31:BH:15:VAL:HG22	31:BH:16:SER:N	2.19	0.57
31:BH:156:ALA:HA	31:BH:171:LEU:HD23	1.85	0.57
31:BH:17:VAL:CG2	31:BH:45:VAL:HG11	2.25	0.57
31:BH:71:LEU:O	31:BH:74:ASN:ND2	2.30	0.57
31:BH:89:ILE:HG12	31:BH:94:TYR:CE2	2.39	0.57
33:BL:10:LEU:HD11	33:BL:57:ILE:HD11	1.85	0.57
33:BL:8:VAL:HG22	33:BL:30:HIS:CD2	2.38	0.57
34:BM:55:VAL:C	34:BM:57:ALA:H	2.07	0.57
24:BA:2685:G:H4'	35:BN:66:LYS:CE	2.33	0.57
36:BO:49:ARG:NH2	54:B7:55:ALA:HB2	2.19	0.57
37:BP:68:ILE:HG13	37:BP:69:PHE:H	1.69	0.57
38:BQ:61:HIS:ND1	38:BQ:64:ARG:NE	2.51	0.57
39:BR:57:LYS:NZ	39:BR:62:LYS:HG3	2.17	0.57
39:BR:9:ARG:O	39:BR:12:PHE:CD2	2.56	0.57
40:BS:55:ASN:HD22	40:BS:57:PHE:HE2	1.52	0.57
41:BT:108:GLU:CD	41:BT:109:LEU:H	2.06	0.57
24:BA:445:C:C3'	41:BT:3:ARG:HE	2.07	0.57
41:BT:81:HIS:CG	41:BT:117:GLN:HE22	2.22	0.57
43:BV:18:ARG:HD2	43:BV:75:TYR:HB3	1.85	0.57
44:BW:39:ILE:HD12	44:BW:54:VAL:CG1	2.34	0.57
45:BX:33:LYS:O	45:BX:34:LYS:C	2.42	0.57
47:BZ:44:ARG:HH21	47:BZ:77:ARG:NH1	2.02	0.57
24:BA:2134:A:C6	24:BA:2135:A:C2	2.92	0.57
24:BA:2147:G:H2'	24:BA:2147:G:N3	2.18	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:BC:99:ILE:HG23	26:BC:107:TRP:HZ3	1.69	0.57
1:AA:341:C:O2'	1:AA:342:C:C5'	2.52	0.57
2:A1:6:U:H2'	2:A1:6:U:O2	2.02	0.57
1:AA:1163:C:H2'	1:AA:1164:G:H5'	1.84	0.57
1:AA:1006:C:O2	1:AA:1006:C:H2'	2.03	0.57
1:AA:1147:C:N3	1:AA:1148:U:C5	2.72	0.57
1:AA:1194:U:C5	1:AA:1195:C:C5	2.92	0.57
1:AA:1319:A:N6	1:AA:1323:G:N3	2.52	0.57
1:AA:1448:C:N3	1:AA:1459:C:O2	2.37	0.57
1:AA:197:A:OP2	1:AA:197:A:O4'	2.22	0.57
1:AA:276:G:P	19:AT:14:LYS:HD3	2.44	0.57
1:AA:301:G:N2	1:AA:302:G:N9	2.53	0.57
1:AA:325:A:N7	1:AA:326:G:C6	2.72	0.57
1:AA:35:G:O2'	1:AA:36:C:H5'	2.03	0.57
1:AA:544:G:H2'	1:AA:545:C:H6	1.64	0.57
1:AA:547:A:H5'	1:AA:548:G:OP1	2.04	0.57
1:AA:562:C:O2'	14:AO:15:ARG:CD	2.49	0.57
1:AA:572:A:O5'	1:AA:573:A:P	2.62	0.57
1:AA:586:C:OP1	19:AT:34:LYS:CE	2.52	0.57
1:AA:600:C:H5'	10:AK:129:VAL:HA	1.86	0.57
1:AA:61:G:C6	1:AA:107:G:C6	2.92	0.57
1:AA:714:G:H8	1:AA:714:G:O5'	1.87	0.57
1:AA:778:G:HO2'	1:AA:779:C:H5'	1.69	0.57
1:AA:744:C:O2'	1:AA:851:G:N2	2.37	0.57
1:AA:875:C:C2	1:AA:876:G:C8	2.91	0.57
1:AA:900:A:C2'	1:AA:901:A:O5'	2.53	0.57
1:AA:924:C:C2	1:AA:925:G:N7	2.72	0.57
1:AA:932:C:H3'	9:AJ:3:ARG:CG	2.21	0.57
3:AB:27:G:H2'	3:AB:28:G:C8	2.39	0.57
3:AB:19:G:O2'	3:AB:57:G:N2	2.37	0.57
3:AC:31:A:H3'	3:AC:32:U:H6	1.68	0.57
4:AE:67:THR:OG1	4:AE:155:LEU:HD11	2.04	0.57
4:AE:182:ILE:H	4:AE:182:ILE:CD1	2.16	0.57
1:AA:1107:C:P	5:AF:172:ARG:HH11	2.28	0.57
5:AF:189:ALA:HB3	5:AF:196:LEU:N	2.12	0.57
5:AF:181:ASN:HD22	5:AF:206:GLU:HA	1.69	0.57
6:AG:110:PHE:CZ	6:AG:147:ALA:CB	2.87	0.57
7:AH:107:ARG:CZ	7:AH:107:ARG:HB2	2.33	0.57
8:AI:83:ASP:OD1	8:AI:84:ASN:ND2	2.37	0.57
10:AK:11:THR:C	10:AK:13:ILE:N	2.56	0.57
10:AK:17:THR:HG21	10:AK:18:ARG:NH2	2.19	0.57
1:AA:591:U:OP1	10:AK:30:ARG:NH2	2.37	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AK:5:PRO:O	10:AK:6:ILE:C	2.42	0.57
11:AL:47:LEU:HD21	11:AL:50:LEU:HD13	1.86	0.57
11:AL:67:GLY:O	11:AL:73:GLN:NE2	2.37	0.57
12:AM:16:LEU:HB3	12:AM:70:ARG:HG2	1.86	0.57
12:AM:9:ARG:CB	12:AM:9:ARG:HH11	2.17	0.57
1:AA:35:G:O2'	14:AO:118:SER:HA	2.04	0.57
16:AQ:23:ARG:HH11	16:AQ:28:GLY:C	2.07	0.57
19:AT:31:LEU:C	19:AT:32:TYR:HD2	2.05	0.57
1:AA:191:G:O2'	22:AW:102:GLY:O	2.21	0.57
51:B4:55:ARG:C	51:B4:57:VAL:N	2.56	0.57
52:B5:27:LYS:CG	52:B5:29:ASN:HD21	2.15	0.57
53:B6:46:VAL:HG12	53:B6:47:ARG:N	2.19	0.57
24:BA:1137:G:N7	24:BA:1138:G:C8	2.72	0.57
24:BA:1142:U:H2'	24:BA:1142(A):A:C8	2.39	0.57
24:BA:120:U:H1'	24:BA:149:A:H1'	1.85	0.57
24:BA:128:C:H2'	24:BA:129:C:C6	2.39	0.57
24:BA:1447:G:H21	24:BA:1545:A:H2	1.51	0.57
24:BA:1494:A:C2	24:BA:1495:A:O4'	2.56	0.57
24:BA:1435:G:C2	24:BA:1558:A:N6	2.72	0.57
24:BA:1429:G:N2	24:BA:1565:C:O2	2.37	0.57
24:BA:1853:A:C4	24:BA:1854:A:C8	2.91	0.57
24:BA:1913:A:H2'	24:BA:1913:A:N3	2.20	0.57
24:BA:1916:A:C8	24:BA:1916:A:OP2	2.57	0.57
24:BA:1925:C:O2	24:BA:1925:C:H2'	2.03	0.57
24:BA:1944:U:C2'	24:BA:1945:G:OP1	2.52	0.57
24:BA:2013:A:H2'	24:BA:2014:A:O5'	2.04	0.57
24:BA:2227:A:C5	24:BA:2228:G:C8	2.92	0.57
24:BA:2307:G:C8	24:BA:2308:G:H1'	2.39	0.57
24:BA:2547:U:H2'	24:BA:2548:G:C5'	2.34	0.57
24:BA:2553:G:O6	24:BA:2583:G:O2'	2.21	0.57
24:BA:270(C):C:N4	24:BA:270(D):C:N4	2.51	0.57
24:BA:2755:C:H4'	24:BA:2756:U:C5	2.38	0.57
24:BA:2831:G:H1'	24:BA:2883:A:H2'	1.86	0.57
24:BA:366:C:H5''	24:BA:403:U:H3	1.69	0.57
24:BA:281:G:C8	24:BA:427:U:O2	2.56	0.57
24:BA:468:G:N7	24:BA:469:G:C4	2.72	0.57
24:BA:510:C:O5'	24:BA:512:G:C6	2.57	0.57
24:BA:516:C:H2'	24:BA:517:C:C6	2.39	0.57
24:BA:540:G:C6	24:BA:541:C:C4	2.93	0.57
24:BA:580:C:C2	24:BA:581:C:C5	2.92	0.57
24:BA:673:C:O2'	24:BA:674:G:H5'	2.03	0.57
25:BB:14:U:C1'	25:BB:107:U:H1'	2.34	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:BE:175:VAL:HG23	28:BE:175:VAL:O	2.04	0.57
28:BE:31:CYS:O	28:BE:33:VAL:HG13	2.04	0.57
28:BE:33:VAL:HG23	28:BE:34:VAL:HG23	1.86	0.57
28:BE:59:VAL:HG12	28:BE:62:PRO:HD2	1.86	0.57
24:BA:2749:A:H4'	31:BH:62:LYS:CB	2.34	0.57
24:BA:1139:G:O5'	34:BM:63:THR:HG21	2.04	0.57
34:BM:66:LYS:CA	34:BM:69:GLN:OE1	2.52	0.57
36:BO:124:LYS:CA	36:BO:143:GLY:HA3	2.34	0.57
37:BP:109:VAL:CG1	37:BP:110:THR:N	2.67	0.57
37:BP:112:GLU:CA	37:BP:115:MET:HB2	2.34	0.57
38:BQ:87:TYR:CE2	38:BQ:118:GLU:OE1	2.57	0.57
38:BQ:77:ARG:O	38:BQ:78:LYS:C	2.42	0.57
42:BU:11:GLN:O	42:BU:21:ARG:CD	2.51	0.57
44:BW:12:VAL:HG22	44:BW:29:TRP:CE2	2.39	0.57
24:BA:1598:C:O2'	44:BW:35:THR:HG23	2.04	0.57
24:BA:338:G:OP1	45:BX:2:ARG:NH2	2.37	0.57
45:BX:13:VAL:CG1	45:BX:70:SER:HB3	2.32	0.57
47:BZ:82:ARG:HG2	47:BZ:83:PRO:N	2.18	0.57
32:BK:125:GLU:HA	32:BK:142:VAL:O	2.03	0.57
26:BC:93:TYR:CE2	26:BC:109:ASP:O	2.57	0.57
26:BC:68:LEU:HD22	26:BC:156:ILE:O	2.04	0.57
1:AA:336:C:H2'	1:AA:337:C:C6	2.38	0.57
1:AA:346:G:N2	1:AA:347:G:C4	2.71	0.57
2:A1:23:A:H2'	2:A1:24:A:H8	1.69	0.57
1:AA:1133:G:N1	1:AA:1142:G:C6	2.72	0.57
1:AA:199:G:O2'	1:AA:200:G:H5'	2.04	0.57
1:AA:330:C:H2'	1:AA:331:G:H8	1.70	0.57
1:AA:412:A:H4'	1:AA:412:A:OP2	2.04	0.57
1:AA:559:A:O2'	1:AA:560:U:P	2.61	0.57
1:AA:673:G:N2	1:AA:674:G:C2	2.72	0.57
1:AA:689:C:H2'	1:AA:690:G:C1'	2.34	0.57
1:AA:696:A:H2'	1:AA:697:U:H5'	1.86	0.57
1:AA:708:C:C4'	13:AN:37:GLY:HA3	2.34	0.57
1:AA:731:G:O2'	1:AA:732:C:C5'	2.52	0.57
1:AA:757:U:H1'	1:AA:879:C:O2'	2.03	0.57
1:AA:862:C:C4	1:AA:863:U:H5	2.21	0.57
1:AA:873:A:OP1	1:AA:873:A:O4'	2.22	0.57
1:AA:968:A:C5'	1:AA:969:A:O5'	2.51	0.57
1:AA:981:U:H3'	1:AA:981:U:C6	2.39	0.57
3:AC:46:G:OP2	3:AC:46:G:O4'	2.22	0.57
3:AC:55:U:C2'	3:AC:57:G:N7	2.67	0.57
3:AC:70:G:H2'	3:AC:71:G:H8	1.67	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AD:35:A:H2'	3:AD:36:A:C1'	2.34	0.57
4:AE:100:GLY:HA2	4:AE:176:GLU:OE2	2.03	0.57
4:AE:179:LYS:O	4:AE:181:PHE:N	2.37	0.57
5:AF:46:GLU:O	5:AF:47:LEU:HD13	2.03	0.57
6:AG:67:ILE:HD12	6:AG:68:TYR:N	2.19	0.57
7:AH:132:ALA:O	7:AH:135:THR:HB	2.04	0.57
8:AI:12:PRO:CB	8:AI:58:GLY:HA2	2.20	0.57
8:AI:67:MET:SD	8:AI:67:MET:N	2.76	0.57
9:AJ:71:PRO:CG	9:AJ:96:GLN:HA	2.34	0.57
10:AK:94:TYR:CE1	10:AK:132:GLU:OE1	2.57	0.57
10:AK:32:LYS:HG3	10:AK:59:LEU:CD1	2.34	0.57
1:AA:878:G:H5''	10:AK:89:PRO:O	2.03	0.57
12:AM:32:ALA:HB2	12:AM:75:ILE:C	2.24	0.57
16:AQ:24:CYS:N	16:AQ:33:VAL:HG11	2.18	0.57
20:AU:18:ARG:HH21	20:AU:21:LYS:CB	2.10	0.57
48:B1:32:PHE:N	48:B1:32:PHE:HD1	2.01	0.57
48:B1:50:ARG:HB2	48:B1:54:ARG:HH12	1.69	0.57
49:B2:6:VAL:HB	49:B2:35:ARG:HH21	1.68	0.57
52:B5:51:GLU:OE1	52:B5:52:VAL:CA	2.52	0.57
55:B8:25:VAL:HG21	55:B8:34:GLN:OE1	2.04	0.57
24:BA:1084:A:N7	24:BA:1085:A:C2	2.73	0.57
24:BA:1291:C:H5'	24:BA:1535:U:HO2'	1.69	0.57
24:BA:1343:G:N2	24:BA:1405:U:H1'	2.20	0.57
24:BA:1353:A:N7	24:BA:1377:G:N2	2.53	0.57
24:BA:1458:C:O2	24:BA:1461:G:N2	2.37	0.57
24:BA:1520:U:C6	24:BA:1520:U:H3'	2.35	0.57
24:BA:1471:A:C4	24:BA:1521:G:N2	2.72	0.57
24:BA:1538:G:C2	24:BA:1539:G:N3	2.72	0.57
24:BA:1466:G:HO2'	24:BA:1547:C:H41	1.51	0.57
24:BA:1770:G:H2'	24:BA:1771:C:C6	2.39	0.57
24:BA:1780:A:O2'	24:BA:1781:C:OP1	2.22	0.57
24:BA:1794:U:H2'	24:BA:1795:C:C6	2.39	0.57
24:BA:1832:C:N4	24:BA:1833:U:C4	2.72	0.57
24:BA:1855:G:C6	24:BA:1856:G:C5	2.93	0.57
24:BA:1857:G:O2'	24:BA:1885:A:N6	2.38	0.57
24:BA:1987:G:C2	24:BA:1988:C:C4	2.92	0.57
24:BA:2011:U:H2'	24:BA:2012:G:H8	1.67	0.57
24:BA:217:G:H2'	24:BA:218:A:O5'	2.04	0.57
24:BA:2197:U:H1'	24:BA:2198:A:C2	2.39	0.57
24:BA:221:A:N7	24:BA:266:G:N7	2.52	0.57
24:BA:2285:C:C5	52:B5:27:LYS:NZ	2.72	0.57
24:BA:2380:C:C4	24:BA:2381:C:C5	2.92	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:243:U:O2	24:BA:243:U:C2'	2.53	0.57
24:BA:247:G:C2	24:BA:249:C:O2'	2.51	0.57
24:BA:2694:G:C6	24:BA:2695:C:C4	2.92	0.57
24:BA:2794:C:C2'	24:BA:2795:G:OP1	2.51	0.57
24:BA:387:U:H4'	24:BA:388:G:C1'	2.33	0.57
24:BA:612:G:C4'	24:BA:616:A:N6	2.53	0.57
24:BA:712:G:C4	24:BA:713:G:N7	2.72	0.57
24:BA:827:U:O3'	24:BA:828:U:O2	2.23	0.57
24:BA:943:U:C4'	24:BA:943:U:OP1	2.51	0.57
24:BA:957:A:N1	24:BA:2459:A:H5'	2.19	0.57
27:BD:10:THR:N	27:BD:11:PRO:CD	2.67	0.57
28:BE:105:THR:CB	28:BE:166:THR:CB	2.69	0.57
28:BE:149:ARG:NH1	28:BE:151:TYR:HA	2.19	0.57
28:BE:44:TYR:O	28:BE:81:ILE:HG23	2.04	0.57
24:BA:320:A:O2'	29:BF:168:ARG:NH1	2.37	0.57
29:BF:181:LEU:H	29:BF:181:LEU:HD13	1.67	0.57
30:BG:12:TYR:CG	30:BG:13:GLU:N	2.72	0.57
30:BG:19:LEU:HA	30:BG:22:ARG:NE	2.19	0.57
24:BA:2310:A:C2	30:BG:83:ARG:NH2	2.72	0.57
31:BH:66:GLY:C	31:BH:69:ARG:HG2	2.24	0.57
31:BH:6:ARG:CD	31:BH:66:GLY:HA2	2.34	0.57
34:BM:7:LYS:HZ3	34:BM:39:ARG:HH12	1.52	0.57
35:BN:121:VAL:O	35:BN:122:LEU:HB2	2.03	0.57
35:BN:47:ILE:O	35:BN:47:ILE:HG23	2.04	0.57
35:BN:63:VAL:O	35:BN:64:ARG:CB	2.51	0.57
35:BN:67:LYS:N	35:BN:67:LYS:HE2	2.20	0.57
36:BO:126:VAL:CG2	36:BO:127:ALA:N	2.66	0.57
37:BP:96:VAL:HG12	37:BP:98:LYS:HZ1	1.70	0.57
38:BQ:73:VAL:O	38:BQ:74:LYS:C	2.42	0.57
39:BR:24:LEU:HD11	39:BR:41:ASP:HB3	1.86	0.57
41:BT:67:ALA:HB1	41:BT:71:GLN:NE2	2.15	0.57
24:BA:494:G:C5'	43:BV:7:ALA:HA	2.33	0.57
24:BA:751:A:H4'	43:BV:90:ARG:CZ	2.34	0.57
45:BX:95:LYS:CG	45:BX:103:GLY:HA3	2.32	0.57
46:BY:104:PHE:CA	46:BY:139:VAL:O	2.53	0.57
46:BY:158:PRO:CB	46:BY:159:PRO:HD2	2.27	0.57
46:BY:31:ARG:NH1	46:BY:31:ARG:O	2.37	0.57
47:BZ:63:VAL:O	47:BZ:81:VAL:HG11	2.04	0.57
1:AA:338:A:O2'	1:AA:339:C:H5'	2.03	0.57
1:AA:346:G:N2	1:AA:347:G:C5	2.72	0.57
24:BA:1579:A:N6	24:BA:1581:G:C2	2.72	0.57
1:AA:926:G:N2	2:A1:39:U:OP2	2.37	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1085:U:C5'	1:AA:1094:G:N2	2.65	0.57
1:AA:109:A:N6	1:AA:326:G:C6	2.73	0.57
1:AA:1275:A:C2'	1:AA:1276:G:H5'	2.34	0.57
1:AA:1440:C:H6	1:AA:1440:C:OP2	1.87	0.57
1:AA:1502:A:C6	1:AA:1504:G:C2	2.93	0.57
1:AA:21:G:C8	1:AA:22:G:N7	2.71	0.57
1:AA:247:G:C6	1:AA:278:G:N1	2.73	0.57
1:AA:287:U:H2'	1:AA:288:A:C5'	2.34	0.57
1:AA:296:U:H2'	1:AA:297:G:H8	1.66	0.57
1:AA:565:U:H2'	1:AA:566:G:N7	2.19	0.57
1:AA:877:C:OP1	10:AK:88:LYS:HD3	2.04	0.57
1:AA:952:U:H5'	1:AA:972:C:N4	2.07	0.57
3:AC:75:C:H2'	3:AC:76:A:O3'	2.04	0.57
4:AE:105:PHE:C	4:AE:107:THR:H	2.06	0.57
4:AE:70:PHE:HA	4:AE:163:PHE:O	2.04	0.57
4:AE:178:ARG:NH2	4:AE:196:LEU:O	2.37	0.57
5:AF:84:ILE:HG13	5:AF:101:LEU:CD2	2.31	0.57
5:AF:107:GLN:OE1	5:AF:111:LEU:HD22	2.05	0.57
5:AF:44:GLU:HA	5:AF:52:LEU:CD1	2.33	0.57
6:AG:114:ARG:O	6:AG:117:ALA:HB3	2.04	0.57
6:AG:125:HIS:HA	6:AG:149:ALA:HB3	1.85	0.57
6:AG:170:VAL:HG11	6:AG:174:LEU:CB	2.34	0.57
8:AI:75:LEU:CD2	8:AI:79:LEU:HD21	2.30	0.57
9:AJ:113:GLU:HB2	9:AJ:118:VAL:HG11	1.87	0.57
12:AM:27:ALA:HB2	12:AM:85:LEU:CD2	2.34	0.57
13:AN:13:GLN:CB	13:AN:76:GLY:HA3	2.33	0.57
15:AP:52:GLU:HB3	15:AP:55:ARG:NH2	2.20	0.57
15:AP:60:VAL:HG22	15:AP:64:TRP:CE3	2.39	0.57
17:AR:71:GLN:N	17:AR:78:TYR:CD1	2.72	0.57
22:AW:49:ALA:HB1	22:AW:99:LEU:HG	1.86	0.57
50:B3:21:VAL:CG1	50:B3:22:ILE:H	2.06	0.57
38:BQ:99:LYS:HE2	51:B4:43:HIS:CE1	2.39	0.57
52:B5:32:ASN:ND2	52:B5:33:LYS:N	2.52	0.57
24:BA:1052:C:O2'	24:BA:1053:C:H5'	2.05	0.57
24:BA:1351:C:O2'	24:BA:1571:A:C1'	2.49	0.57
24:BA:1389:G:H2'	24:BA:1390:U:C6	2.39	0.57
24:BA:1463:C:H2'	24:BA:1464:C:O5'	2.04	0.57
24:BA:1477:A:H2'	24:BA:1478:G:C1'	2.34	0.57
24:BA:1496:A:H2'	24:BA:1496:A:N3	2.18	0.57
24:BA:1424:G:H5'	24:BA:1499:C:O2'	2.05	0.57
24:BA:149:A:C8	24:BA:150:C:C6	2.93	0.57
24:BA:1603:A:H3'	24:BA:1603:A:P	2.44	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1707:G:C4	24:BA:1708:C:C5	2.92	0.57
24:BA:1784:A:H4'	24:BA:1785:A:O4'	2.04	0.57
24:BA:1975:G:C2'	24:BA:1976:U:O5'	2.52	0.57
24:BA:1999:C:C2'	24:BA:2000:G:O5'	2.51	0.57
24:BA:2075:U:O2	24:BA:2076:U:C5'	2.52	0.57
24:BA:2211:G:C3'	24:BA:2211:G:N3	2.64	0.57
24:BA:221:A:O2'	24:BA:222:A:P	2.62	0.57
24:BA:228:A:H2'	24:BA:229:A:C5'	2.32	0.57
24:BA:2327:A:C2'	24:BA:2328:A:C8	2.73	0.57
24:BA:2394:C:OP1	36:BO:57:THR:CA	2.52	0.57
24:BA:2472:G:C2'	24:BA:2475:C:H42	2.17	0.57
24:BA:253:C:C2'	24:BA:254:G:H5'	2.34	0.57
24:BA:266:G:H5'	24:BA:271(A):C:H42	1.68	0.57
24:BA:2759:G:O2'	24:BA:2760:C:H5'	2.04	0.57
24:BA:2765:A:O2'	24:BA:2766:G:OP1	2.19	0.57
24:BA:2784:C:H2'	24:BA:2785:C:H6	1.69	0.57
24:BA:2834:G:H3'	24:BA:2834:G:H8	1.69	0.57
24:BA:360:G:H2'	24:BA:361:G:O5'	2.04	0.57
24:BA:451:C:C5	24:BA:453:C:H5'	2.32	0.57
24:BA:559:G:C2'	24:BA:560:C:H6	2.04	0.57
24:BA:65:C:C2	24:BA:66:C:C5	2.92	0.57
24:BA:691:C:N3	24:BA:692:C:C5	2.73	0.57
24:BA:807:U:O2	24:BA:808:G:C8	2.57	0.57
24:BA:811:U:H3'	24:BA:811:U:H6	1.70	0.57
24:BA:954:G:O6	24:BA:964:C:N4	2.37	0.57
24:BA:977:G:C2	24:BA:978:G:H1'	2.40	0.57
27:BD:146:GLU:CA	27:BD:154:LYS:HG2	2.34	0.57
24:BA:2209:C:C4'	27:BD:150:LYS:HB3	2.27	0.57
27:BD:155:LEU:HG	27:BD:157:ARG:CZ	2.34	0.57
24:BA:449:A:H4'	29:BF:52:LYS:NZ	2.19	0.57
30:BG:4:ASP:HB3	30:BG:104:GLU:CD	2.24	0.57
30:BG:170:ARG:HD3	30:BG:174:GLU:HB2	1.87	0.57
30:BG:33:ARG:HH21	30:BG:34:LEU:N	2.03	0.57
30:BG:79:ASN:O	30:BG:82:LEU:HD23	2.05	0.57
31:BH:11:VAL:HG11	31:BH:17:VAL:HG21	1.86	0.57
32:BK:40:THR:HG22	32:BK:41:GLU:N	2.19	0.57
34:BM:123:TYR:CG	34:BM:129:PRO:HB2	2.40	0.57
34:BM:76:SER:OG	34:BM:81:GLY:O	2.21	0.57
24:BA:672:C:C6	36:BO:38:GLN:OE1	2.57	0.57
36:BO:46:LYS:NZ	36:BO:50:ARG:NH1	2.52	0.57
37:BP:36:ALA:HA	37:BP:129:THR:HG22	1.86	0.57
37:BP:14:ARG:O	37:BP:73:PRO:HG2	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BS:7:ILE:O	40:BS:9:LEU:N	2.37	0.57
41:BT:30:LYS:O	41:BT:32:PHE:CD1	2.56	0.57
41:BT:46:ALA:O	41:BT:49:HIS:HB2	2.04	0.57
43:BV:59:VAL:HG21	43:BV:66:GLU:CB	2.34	0.57
43:BV:65:LEU:O	43:BV:68:ARG:HG2	2.05	0.57
43:BV:76:VAL:HA	43:BV:104:THR:HG22	1.87	0.57
47:BZ:11:ARG:HH11	47:BZ:11:ARG:HG2	1.69	0.57
47:BZ:40:GLN:HG2	47:BZ:45:PHE:HD1	1.69	0.57
3:AD:55:U:O2'	3:AD:57:G:N7	2.37	0.57
24:BA:2161:C:C2'	24:BA:2162:G:H8	2.13	0.57
26:BC:116:THR:HG22	26:BC:149:ILE:HB	1.86	0.57
26:BC:131:LEU:HB3	26:BC:136:LEU:HB2	1.85	0.57
26:BC:20:TYR:CE1	26:BC:222:VAL:HG22	2.39	0.57
1:AA:799:G:H3'	1:AA:800:G:C8	2.39	0.57
15:AP:121:LYS:HE3	15:AP:121:LYS:C	2.24	0.57
28:BE:16:ARG:HB3	28:BE:17:ASP:OD2	2.04	0.57
1:AA:1022:G:N3	1:AA:1022:G:H2'	2.18	0.57
24:BA:2106:G:O2'	24:BA:2107:C:H5'	2.03	0.57
2:A1:34:U:H3'	2:A1:34:U:C6	2.39	0.57
1:AA:1003:G:N7	1:AA:1004:A:N3	2.52	0.57
1:AA:1004:A:H2'	1:AA:1036:G:O6	2.05	0.57
1:AA:1039:C:H2'	1:AA:1040:U:H6	1.70	0.57
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.39	0.57
1:AA:1255:G:H21	1:AA:1276:G:H22	1.49	0.57
1:AA:136:C:H4'	18:AS:65:GLN:HE22	1.69	0.57
1:AA:22:G:C2'	1:AA:23:C:O4'	2.52	0.57
1:AA:266:G:H2'	19:AT:67:LYS:HZ3	1.70	0.57
1:AA:594:G:N2	1:AA:596:C:N4	2.52	0.57
1:AA:778:G:C4	1:AA:779:C:C5	2.92	0.57
1:AA:91:C:C2	1:AA:92:G:N7	2.72	0.57
3:AB:32:U:C4	3:AB:33:U:O4	2.57	0.57
3:AC:34:G:C2'	3:AC:35:A:H5'	2.34	0.57
4:AE:35:GLU:OE2	4:AE:36:ARG:O	2.23	0.57
4:AE:71:VAL:HG13	4:AE:73:THR:HG23	1.85	0.57
5:AF:12:LEU:HG	16:AQ:57:ARG:HG3	1.85	0.57
6:AG:106:TYR:HB3	6:AG:114:ARG:NE	2.20	0.57
6:AG:146:ILE:O	6:AG:147:ALA:HB2	2.03	0.57
6:AG:170:VAL:CG1	6:AG:174:LEU:HB2	2.34	0.57
6:AG:20:TYR:HB2	6:AG:27:TYR:HA	1.86	0.57
1:AA:540:G:H21	6:AG:42:GLN:HE22	1.52	0.57
6:AG:52:SER:OG	6:AG:54:TYR:HB3	2.05	0.57
7:AH:18:ARG:O	7:AH:25:ARG:O	2.21	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AH:75:THR:O	7:AH:75:THR:HG23	2.05	0.57
9:AJ:113:GLU:OE1	9:AJ:118:VAL:C	2.42	0.57
1:AA:932:C:H5''	9:AJ:3:ARG:HB3	1.86	0.57
7:AH:78:HIS:CG	10:AK:107:LEU:HD21	2.39	0.57
11:AL:50:LEU:CD2	11:AL:51:ARG:HH12	2.15	0.57
13:AN:41:THR:HB	13:AN:71:LYS:CE	2.34	0.57
14:AO:117:ARG:NH1	14:AO:117:ARG:HG3	2.14	0.57
15:AP:100:GLY:O	15:AP:101:GLN:O	2.23	0.57
15:AP:23:TYR:O	15:AP:66:LEU:HB2	2.04	0.57
15:AP:74:VAL:HG12	15:AP:78:ILE:CD1	2.26	0.57
16:AQ:40:CYS:O	16:AQ:44:LEU:HB3	2.04	0.57
17:AR:39:LEU:HD21	17:AR:56:LEU:HD22	1.85	0.57
20:AU:64:ARG:O	20:AU:67:ALA:HB3	2.05	0.57
1:AA:333:G:H4'	22:AW:16:HIS:HD2	1.65	0.57
49:B2:40:THR:HB	49:B2:43:ILE:HB	1.86	0.57
52:B5:17:LYS:HZ2	52:B5:50:ARG:HG3	1.69	0.57
52:B5:40:CYS:HA	52:B5:47:THR:O	2.05	0.57
24:BA:2754:U:H5'	55:B8:15:LYS:NZ	2.19	0.57
55:B8:9:ARG:C	55:B8:10:ILE:HG13	2.24	0.57
24:BA:1007:C:H2'	24:BA:1008:C:H5	1.70	0.57
24:BA:1168:G:C6	24:BA:1182:A:N1	2.72	0.57
24:BA:1257:C:O2'	29:BF:84:VAL:CG2	2.46	0.57
24:BA:1302:A:C5'	24:BA:1303:G:OP2	2.50	0.57
24:BA:1387:C:C2	24:BA:1388:G:N7	2.72	0.57
24:BA:141:A:N1	24:BA:141(A):C:O4'	2.37	0.57
24:BA:1515:C:OP1	24:BA:1515:C:H6	1.87	0.57
24:BA:1304:C:OP1	24:BA:1642:G:O2'	2.23	0.57
24:BA:1759:A:C2'	24:BA:1760:A:O5'	2.52	0.57
24:BA:1792:G:P	27:BD:206:LEU:HD21	2.44	0.57
24:BA:1982:C:C4	24:BA:1983:C:N4	2.72	0.57
24:BA:1992:G:C1'	24:BA:1993:U:C4	2.88	0.57
24:BA:2017:U:H1'	51:B4:8:LYS:O	2.05	0.57
24:BA:1131:G:N7	24:BA:2025:C:H4'	2.20	0.57
24:BA:2210:G:O2'	24:BA:2211:G:P	2.63	0.57
24:BA:2311:A:H5''	24:BA:2312:U:C5	2.40	0.57
24:BA:2466:C:H5''	55:B8:5:ALA:HB1	1.86	0.57
24:BA:250:G:H5'	54:B7:8:LYS:CG	2.35	0.57
24:BA:2520:C:O2'	24:BA:2521:C:C5'	2.50	0.57
24:BA:270(E):G:OP2	24:BA:270(E):G:H8	1.87	0.57
24:BA:270(R):G:N2	24:BA:270(S):G:N3	2.52	0.57
24:BA:2721:A:C2	24:BA:2873:A:C6	2.91	0.57
24:BA:2755:C:O5'	24:BA:2755:C:H6	1.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2768:C:O2'	24:BA:2769:C:H5'	2.04	0.57
24:BA:2809:A:O4'	24:BA:2809:A:N3	2.35	0.57
24:BA:303:U:C2'	24:BA:304:G:H5'	2.35	0.57
24:BA:460:A:H3'	24:BA:461:C:H6	1.69	0.57
24:BA:716:A:H2'	24:BA:717:G:C5'	2.28	0.57
24:BA:464:U:O2	24:BA:788:A:N7	2.38	0.57
27:BD:135:PHE:CD1	27:BD:135:PHE:N	2.73	0.57
27:BD:178:PRO:HG2	27:BD:179:SER:N	2.18	0.57
24:BA:1799:G:C3'	27:BD:183:ARG:NH2	2.63	0.57
27:BD:181:GLU:CB	27:BD:268:ARG:HE	2.14	0.57
28:BE:100:GLU:HB2	28:BE:172:VAL:HG11	1.86	0.57
29:BF:109:GLY:O	29:BF:111:ALA:N	2.36	0.57
29:BF:120:GLU:HA	29:BF:120:GLU:OE1	2.04	0.57
30:BG:32:PRO:HB2	30:BG:163:ALA:CA	2.33	0.57
3:AC:57:G:H5'	30:BG:81:LYS:O	2.05	0.57
30:BG:44:GLY:N	30:BG:88:ILE:CG2	2.67	0.57
32:BK:9:LEU:CG	32:BK:17:GLN:HE22	2.18	0.57
33:BL:77:LEU:HA	33:BL:80:LYS:HB2	1.87	0.57
34:BM:34:LEU:CD2	34:BM:120:LEU:HB2	2.33	0.57
34:BM:23:LEU:HD23	34:BM:60:ILE:HG22	1.85	0.57
35:BN:39:ILE:CD1	35:BN:39:ILE:N	2.66	0.57
35:BN:77:ILE:HG12	40:BS:75:ILE:CD1	2.34	0.57
36:BO:135:LEU:CD1	36:BO:135:LEU:H	2.18	0.57
37:BP:111:GLU:HB2	37:BP:113:GLN:NE2	2.18	0.57
37:BP:27:VAL:CG2	37:BP:28:ALA:H	1.94	0.57
37:BP:43:THR:HG23	37:BP:46:GLN:HE21	1.69	0.57
37:BP:59:ARG:C	37:BP:60:ARG:HD2	2.24	0.57
38:BQ:31:HIS:CD2	38:BQ:34:ILE:HD11	2.39	0.57
39:BR:73:LEU:H	39:BR:73:LEU:CD1	2.17	0.57
40:BS:55:ASN:O	40:BS:57:PHE:HE2	1.87	0.57
40:BS:50:ILE:HG23	40:BS:68:TYR:HB2	1.85	0.57
42:BU:13:ARG:NH2	42:BU:43:GLU:OE2	2.37	0.57
42:BU:7:THR:O	42:BU:9:GLY:N	2.38	0.57
42:BU:83:ARG:HD3	42:BU:84:LYS:HA	1.87	0.57
45:BX:6:HIS:CG	45:BX:33:LYS:HZ3	2.22	0.57
46:BY:116:VAL:CG2	46:BY:144:LEU:O	2.52	0.57
46:BY:116:VAL:HA	46:BY:175:VAL:O	2.05	0.57
3:AD:19:G:N7	24:BA:2112:G:N7	2.52	0.57
26:BC:100:ILE:CG2	26:BC:127:LEU:HG	2.18	0.57
1:AA:1251:A:H2'	1:AA:1252:A:N7	2.20	0.57
1:AA:1238:A:N6	1:AA:1301:U:H3	1.97	0.57
1:AA:1468:A:H2'	1:AA:1469:G:O5'	2.05	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:440:A:C3'	1:AA:442:C:H6	2.18	0.57
1:AA:509:A:C5	1:AA:510:A:C6	2.92	0.57
1:AA:571:U:C3'	1:AA:572:A:C5'	2.72	0.57
1:AA:778:G:N3	1:AA:779:C:C6	2.73	0.57
1:AA:812:C:O2'	1:AA:813:U:OP2	2.20	0.57
1:AA:815:A:H1'	1:AA:817:C:H42	1.67	0.57
1:AA:876:G:O2'	10:AK:11:THR:HG21	2.05	0.57
1:AA:944:G:C2'	1:AA:945:G:H5''	2.34	0.57
1:AA:973:G:N1	1:AA:974:A:C6	2.73	0.57
4:AE:173:ALA:CA	4:AE:176:GLU:HB2	2.34	0.57
4:AE:187:LEU:CA	4:AE:201:ILE:O	2.45	0.57
4:AE:74:LYS:HZ3	4:AE:76:GLN:HB2	1.70	0.57
4:AE:79:ASP:O	4:AE:82:ARG:HB3	2.03	0.57
4:AE:69:LEU:CD1	4:AE:92:TYR:HA	2.32	0.57
5:AF:135:LYS:HZ2	7:AH:52:PRO:HG2	1.70	0.57
5:AF:159:GLY:N	5:AF:193:TYR:CE1	2.69	0.57
5:AF:22:TRP:CH2	5:AF:32:LEU:HB3	2.39	0.57
5:AF:8:ILE:HG22	5:AF:9:GLY:N	2.19	0.57
7:AH:63:ARG:CA	7:AH:66:MET:HG2	2.35	0.57
8:AI:60:PHE:HE2	20:AU:78:LEU:HD21	1.68	0.57
3:AD:32:U:O2'	9:AJ:77:SER:HB2	2.03	0.57
10:AK:18:ARG:N	10:AK:18:ARG:NH1	2.52	0.57
10:AK:40:ALA:N	10:AK:45:ILE:CG2	2.68	0.57
10:AK:45:ILE:HG13	10:AK:61:VAL:HG13	1.85	0.57
11:AL:47:LEU:HD11	11:AL:56:LEU:CG	2.33	0.57
12:AM:10:GLY:N	12:AM:16:LEU:HD11	2.19	0.57
12:AM:35:SER:N	12:AM:73:ASP:O	2.38	0.57
1:AA:685:G:H4'	13:AN:40:ILE:O	2.05	0.57
14:AO:88:GLY:O	14:AO:90:VAL:HG23	2.04	0.57
19:AT:68:ARG:H	19:AT:70:ARG:CZ	2.16	0.57
19:AT:74:LEU:HD13	19:AT:74:LEU:O	2.05	0.57
8:AI:95:GLU:HA	20:AU:32:ARG:HB3	1.85	0.57
20:AU:80:PRO:O	20:AU:82:THR:O	2.22	0.57
15:AP:87:TYR:HB2	21:AV:73:GLU:HB2	1.85	0.57
23:AX:12:LYS:HG3	23:AX:17:THR:OG1	2.05	0.57
1:AA:1270:C:OP1	23:AX:24:ARG:NH2	2.37	0.57
50:B3:47:GLN:HA	50:B3:52:THR:HB	1.83	0.57
50:B3:5:ILE:HD11	50:B3:9:LEU:C	2.24	0.57
50:B3:7:PRO:CG	50:B3:60:GLN:HB2	2.35	0.57
51:B4:17:ASP:N	51:B4:17:ASP:OD2	2.37	0.57
51:B4:32:PRO:HA	51:B4:38:ALA:O	2.04	0.57
53:B6:5:TRP:HZ3	53:B6:12:ARG:HH11	1.51	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:B8:23:VAL:HB	55:B8:36:GLN:HG3	1.86	0.57
24:BA:2741:A:O3'	55:B8:2:LYS:NZ	2.36	0.57
24:BA:1021:A:C2	24:BA:1122:G:H4'	2.38	0.57
24:BA:1033:U:H5'	55:B8:16:VAL:CG1	2.33	0.57
24:BA:1065:U:H1'	24:BA:1074:G:H1	1.69	0.57
24:BA:1000:A:N6	24:BA:1155:A:H5'	2.19	0.57
24:BA:1221:C:H2'	24:BA:1221:C:O2	2.04	0.57
24:BA:134:C:C2	24:BA:146:G:N2	2.73	0.57
24:BA:137(A):G:N2	24:BA:142:G:C2	2.73	0.57
24:BA:1399:C:H2'	24:BA:1400:G:H8	1.70	0.57
24:BA:1424:G:H2'	24:BA:1425:G:O5'	2.04	0.57
24:BA:1443:G:C2	24:BA:1444:G:C1'	2.85	0.57
24:BA:1453:A:OP2	24:BA:1453:A:C4'	2.53	0.57
24:BA:14:A:N7	24:BA:15:G:C8	2.72	0.57
24:BA:1652:A:N7	24:BA:1653:G:N3	2.52	0.57
24:BA:1696:G:C6	24:BA:1697:G:C2	2.93	0.57
24:BA:1717:G:H21	24:BA:1718:G:H1'	1.69	0.57
24:BA:1902:C:H5'	27:BD:244:ARG:CZ	2.34	0.57
24:BA:1904:G:C2	24:BA:1905:C:C6	2.92	0.57
24:BA:1911:U:O4	24:BA:1913:A:N6	2.37	0.57
24:BA:1980:G:O2'	24:BA:1981:A:H5''	2.04	0.57
24:BA:1679:U:C4'	24:BA:1990:C:O2'	2.53	0.57
24:BA:1326:U:H6	24:BA:2010:G:H21	1.51	0.57
24:BA:2020:A:N6	24:BA:2034:U:O4	2.34	0.57
24:BA:2287:A:C8	24:BA:2289:G:C5	2.93	0.57
24:BA:233:A:H2'	24:BA:234:C:O5'	2.03	0.57
24:BA:2481:G:HO2'	24:BA:2482:G:C5'	2.18	0.57
24:BA:2519:U:C2	24:BA:2542:A:C2	2.92	0.57
24:BA:2539:C:H1'	55:B8:2:LYS:NZ	2.19	0.57
24:BA:2575:C:OP1	28:BE:144:ARG:NH2	2.37	0.57
24:BA:259:G:H1'	24:BA:621:A:O2'	2.05	0.57
24:BA:2648:C:H2'	24:BA:2649:U:C6	2.39	0.57
24:BA:270(J):G:H3'	24:BA:270(K):C:H6	1.68	0.57
24:BA:269:U:C5	24:BA:270(Z):U:OP2	2.58	0.57
24:BA:360:G:H8	24:BA:360:G:O5'	1.87	0.57
24:BA:431:U:H2'	24:BA:432:A:H5'	1.86	0.57
24:BA:569:U:O4	24:BA:2498:C:H4'	2.05	0.57
24:BA:605:C:H2'	24:BA:606:U:C6	2.38	0.57
24:BA:728:G:H21	24:BA:730:C:C5'	2.18	0.57
24:BA:733:G:OP2	24:BA:761:A:N6	2.37	0.57
24:BA:742:G:H5'	24:BA:1675:C:O2'	2.04	0.57
24:BA:758:C:H2'	24:BA:759:G:C8	2.40	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:942:G:C2	24:BA:943:U:C4	2.92	0.57
25:BB:37:C:N3	25:BB:49:C:O4'	2.38	0.57
27:BD:269:PHE:O	27:BD:270:ILE:HG13	2.05	0.57
27:BD:63:ARG:HB2	27:BD:63:ARG:HH11	1.67	0.57
30:BG:119:GLY:O	30:BG:120:LEU:HD23	2.04	0.57
30:BG:132:ASN:O	30:BG:133:LEU:HB2	2.03	0.57
31:BH:31:GLY:C	31:BH:33:LEU:H	2.07	0.57
24:BA:2749:A:H4'	31:BH:62:LYS:HB2	1.85	0.57
32:BK:2:LYS:NZ	32:BK:44:LEU:HD11	2.18	0.57
35:BN:23:ARG:N	35:BN:23:ARG:HD3	2.18	0.57
35:BN:37:ASP:O	35:BN:61:VAL:HG23	2.04	0.57
35:BN:86:ILE:HG21	35:BN:90:GLN:HA	1.87	0.57
36:BO:123:LEU:O	36:BO:138:LEU:HD23	2.03	0.57
24:BA:811:U:C4	36:BO:23:PRO:CD	2.87	0.57
36:BO:42:SER:O	36:BO:44:GLY:N	2.37	0.57
36:BO:81:GLN:O	36:BO:86:LYS:HG2	2.04	0.57
37:BP:120:ILE:O	37:BP:121:ALA:C	2.43	0.57
37:BP:75:THR:HB	37:BP:77:LYS:CE	2.35	0.57
38:BQ:65:LEU:O	38:BQ:68:ARG:CB	2.52	0.57
39:BR:24:LEU:HD23	39:BR:39:ILE:HG22	1.87	0.57
25:BB:50:G:C4'	39:BR:61:ASN:OD1	2.51	0.57
39:BR:76:LYS:O	39:BR:80:LEU:CB	2.48	0.57
40:BS:26:ASP:O	40:BS:52:ILE:CG2	2.52	0.57
40:BS:56:GLY:O	40:BS:61:PHE:CA	2.53	0.57
41:BT:16:LYS:CG	41:BT:20:LEU:HD21	2.35	0.57
41:BT:59:ARG:HH11	41:BT:59:ARG:HB3	1.70	0.57
41:BT:84:LYS:N	41:BT:84:LYS:HE2	2.20	0.57
41:BT:92:ARG:O	41:BT:94:ASN:N	2.34	0.57
46:BY:76:LEU:HD23	46:BY:82:ARG:O	2.04	0.57
24:BA:2272:U:OP1	47:BZ:18:ALA:HB2	2.04	0.57
47:BZ:59:LEU:CD1	47:BZ:79:VAL:HG11	2.34	0.57
26:BC:141:LYS:O	26:BC:141:LYS:HG3	2.05	0.57
1:AA:1151:A:C5	1:AA:1152:A:C8	2.92	0.57
1:AA:1157:A:H1'	1:AA:1181:G:H21	1.70	0.57
1:AA:1253:G:N2	1:AA:1254:C:H1'	2.17	0.57
1:AA:1302:U:H2'	1:AA:1303:C:H5'	1.87	0.57
1:AA:1394:A:H62	1:AA:1501:C:C4'	2.18	0.57
1:AA:1504:G:O2'	1:AA:1505:G:OP2	2.21	0.57
1:AA:250:A:H4'	1:AA:251:G:O5'	2.05	0.57
1:AA:295:C:O2'	1:AA:296:U:H5'	2.04	0.57
1:AA:307:C:H41	1:AA:308:C:H41	1.52	0.57
1:AA:505:G:C6	1:AA:535:A:C2	2.92	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:543:C:N3	1:AA:544:G:N7	2.52	0.57
1:AA:816:A:H2'	1:AA:817:C:OP2	2.04	0.57
1:AA:817:C:C2	1:AA:819:A:H5'	2.40	0.57
1:AA:890:G:C2'	1:AA:891:U:OP2	2.53	0.57
1:AA:900:A:H2'	1:AA:901:A:O5'	2.05	0.57
1:AA:943:U:H2'	1:AA:944:G:H8	1.70	0.57
4:AE:146:GLN:O	4:AE:147:LYS:C	2.42	0.57
5:AF:191:THR:C	5:AF:193:TYR:H	2.08	0.57
5:AF:187:ALA:N	5:AF:198:VAL:HG22	2.19	0.57
6:AG:155:LEU:N	6:AG:158:ILE:HG13	2.17	0.57
7:AH:37:ARG:NH1	7:AH:111:GLU:HB2	2.20	0.57
7:AH:50:GLU:HB2	7:AH:53:LEU:HD23	1.86	0.57
8:AI:75:LEU:O	8:AI:78:GLU:HB3	2.04	0.57
8:AI:95:GLU:H	8:AI:96:PRO:HD3	1.67	0.57
9:AJ:93:PRO:O	9:AJ:94:ARG:C	2.43	0.57
10:AK:18:ARG:HH11	10:AK:18:ARG:CB	2.17	0.57
10:AK:18:ARG:NH1	10:AK:18:ARG:CG	2.61	0.57
10:AK:29:SER:CB	10:AK:32:LYS:NZ	2.65	0.57
13:AN:106:LYS:HG2	13:AN:107:SER:N	2.19	0.57
15:AP:108:ARG:CZ	15:AP:111:LYS:HD3	2.34	0.57
15:AP:48:LEU:HD13	15:AP:53:VAL:HA	1.86	0.57
1:AA:112:G:OP2	18:AS:27:LYS:HD3	2.05	0.57
20:AU:61:LYS:CD	20:AU:64:ARG:HH22	2.07	0.57
21:AV:31:ILE:H	21:AV:49:ILE:HA	1.67	0.57
21:AV:32:LYS:HB2	21:AV:57:HIS:NE2	2.20	0.57
21:AV:5:LEU:HD12	21:AV:9:VAL:CG1	2.33	0.57
48:B1:26:GLU:HA	48:B1:29:GLU:HG3	1.86	0.57
48:B1:29:GLU:O	48:B1:32:PHE:HB2	2.04	0.57
49:B2:10:LYS:HG2	49:B2:12:PRO:CD	2.33	0.57
49:B2:17:LYS:CA	49:B2:20:LYS:NZ	2.68	0.57
24:BA:396:G:H5''	50:B3:10:VAL:HG13	1.86	0.57
54:B7:30:ARG:HH21	54:B7:43:GLN:CA	2.17	0.57
54:B7:31:HIS:O	54:B7:32:LEU:HD23	2.05	0.57
55:B8:9:ARG:NE	55:B8:16:VAL:HB	2.18	0.57
24:BA:1095:A:O2'	24:BA:1096:A:O4'	2.21	0.57
24:BA:1174:A:N3	24:BA:1175:U:H5''	2.19	0.57
24:BA:1234:U:H2'	24:BA:1235:G:C8	2.40	0.57
24:BA:565:C:O4'	24:BA:1252:G:O6	2.23	0.57
24:BA:130:C:OP1	24:BA:1348:G:N2	2.36	0.57
24:BA:1315:C:C2	24:BA:1316:U:C5	2.93	0.57
24:BA:1545(A):A:O5'	24:BA:1545(A):A:C8	2.58	0.57
24:BA:1570:A:C2	24:BA:1571:A:N7	2.72	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1700:A:C8	24:BA:1701:A:C8	2.92	0.57
24:BA:163:U:C4	24:BA:171:G:H1'	2.39	0.57
24:BA:1780:A:C2'	24:BA:1781:C:OP1	2.52	0.57
24:BA:1782:C:H6	24:BA:1782:C:H3'	1.70	0.57
24:BA:1785:A:P	24:BA:1982:C:H4'	2.44	0.57
24:BA:1788:C:C2'	27:BD:222:ARG:HE	2.18	0.57
24:BA:1934:C:H4'	24:BA:1974:C:H4'	1.86	0.57
24:BA:1973:G:H2'	24:BA:1974:C:H6	1.70	0.57
24:BA:2047:U:O2'	24:BA:2048:G:H5'	2.04	0.57
24:BA:2053:G:H2'	24:BA:2054:A:O5'	2.05	0.57
24:BA:2206:C:C2	24:BA:2207:C:C5	2.92	0.57
24:BA:2243:U:O2	24:BA:2244:U:C6	2.57	0.57
24:BA:224:G:H2'	24:BA:225:A:O4'	2.04	0.57
24:BA:228:A:H2'	24:BA:230:U:OP1	2.04	0.57
24:BA:2323:G:H2'	24:BA:2324:C:H6	1.68	0.57
24:BA:252:G:O6	54:B7:8:LYS:NZ	2.27	0.57
24:BA:2596:U:O4	24:BA:2597:G:N1	2.38	0.57
24:BA:2777:G:C8	24:BA:2777:G:O5'	2.57	0.57
24:BA:2886:G:C2	24:BA:2887:U:C6	2.92	0.57
24:BA:326:G:H22	24:BA:337:C:C1'	2.17	0.57
24:BA:308:G:C2	24:BA:329:G:N2	2.73	0.57
24:BA:481:G:H22	24:BA:509:C:N4	2.01	0.57
24:BA:565:C:OP2	42:BU:80:GLN:O	2.22	0.57
24:BA:653:A:H3'	24:BA:654:A:H4'	1.87	0.57
24:BA:68:G:N2	24:BA:74:A:O5'	2.38	0.57
24:BA:814:C:C2	24:BA:815:C:C5	2.92	0.57
24:BA:823:G:C2	24:BA:824:A:C5	2.93	0.57
24:BA:878:A:N3	24:BA:879:G:C8	2.72	0.57
24:BA:952:G:C6	24:BA:966:G:C6	2.92	0.57
25:BB:88:C:H2'	25:BB:89:G:H5'	1.86	0.57
27:BD:117:VAL:O	27:BD:118:VAL:HG22	2.03	0.57
27:BD:148:GLU:HB2	27:BD:151:LYS:HG3	1.87	0.57
27:BD:151:LYS:HB2	27:BD:154:LYS:CE	2.33	0.57
27:BD:244:ARG:H	27:BD:245:PRO:CD	2.05	0.57
27:BD:181:GLU:C	27:BD:270:ILE:HD12	2.24	0.57
27:BD:7:LYS:HZ3	27:BD:91:ARG:NE	2.03	0.57
27:BD:61:LEU:CD1	27:BD:86:PRO:HD3	2.32	0.57
28:BE:113:PHE:O	28:BE:158:GLY:HA2	2.04	0.57
24:BA:2619:C:H5''	28:BE:152:LYS:CB	2.33	0.57
28:BE:178:GLU:O	28:BE:180:ASN:N	2.37	0.57
24:BA:2811:G:P	28:BE:60:ASN:HD22	2.28	0.57
29:BF:27:GLU:HG3	29:BF:116:ASP:HB2	1.86	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:204:ASN:OD1	29:BF:204:ASN:N	2.37	0.57
29:BF:34:TRP:CD1	29:BF:38:ARG:NH1	2.73	0.57
29:BF:39:TRP:CG	29:BF:40:GLN:N	2.73	0.57
29:BF:50:SER:O	29:BF:92:PRO:HG2	2.04	0.57
30:BG:165:THR:HB	30:BG:168:GLU:CD	2.25	0.57
30:BG:34:LEU:HD13	30:BG:100:TRP:NE1	2.18	0.57
30:BG:45:GLU:C	30:BG:47:LYS:N	2.58	0.57
30:BG:61:ALA:HB1	30:BG:67:LYS:HE2	1.82	0.57
31:BH:149:ARG:NH1	31:BH:164:TYR:HB3	2.20	0.57
31:BH:35:VAL:HG21	31:BH:75:ALA:CB	2.35	0.57
33:BL:32:ALA:HB1	33:BL:37:PHE:CD1	2.40	0.57
33:BL:57:ILE:CA	33:BL:66:THR:O	2.46	0.57
34:BM:13:TRP:HA	34:BM:51:PHE:O	2.04	0.57
34:BM:51:PHE:CE1	34:BM:119:ARG:NE	2.73	0.57
34:BM:16:ILE:CD1	34:BM:52:VAL:HG22	2.11	0.57
34:BM:70:LYS:HD2	34:BM:86:PRO:CG	2.33	0.57
35:BN:86:ILE:HD13	35:BN:90:GLN:HG3	1.86	0.57
36:BO:47:ASP:HB3	36:BO:48:PRO:HD2	1.86	0.57
36:BO:47:ASP:CB	36:BO:48:PRO:CD	2.82	0.57
36:BO:52:GLU:HA	36:BO:55:ARG:CG	2.30	0.57
36:BO:54:GLY:O	36:BO:56:SER:N	2.37	0.57
36:BO:72:PRO:HA	36:BO:110:TYR:CD1	2.40	0.57
37:BP:65:PHE:C	37:BP:66:ILE:HD12	2.25	0.57
39:BR:15:ARG:HH21	39:BR:15:ARG:HG2	1.69	0.57
39:BR:51:ALA:HB1	39:BR:73:LEU:CG	2.32	0.57
39:BR:51:ALA:O	39:BR:73:LEU:HD12	2.05	0.57
42:BU:3:ALA:HA	42:BU:44:LYS:NZ	2.20	0.57
43:BV:14:PRO:O	43:BV:15:ARG:C	2.43	0.57
44:BW:12:VAL:C	44:BW:14:SER:H	2.08	0.57
44:BW:15:GLU:CB	44:BW:16:LYS:HE2	2.33	0.57
44:BW:36:LYS:O	44:BW:39:ILE:HB	2.05	0.57
44:BW:35:THR:HG21	44:BW:35:THR:HG21	2.21	0.57
44:BW:36:LYS:O	44:BW:39:ILE:HB	2.05	0.57
46:BY:31:ARG:HG2	46:BY:31:ARG:HH11	1.69	0.57
3:AD:63:G:H2'	3:AD:64:A:C8	2.40	0.57
24:BA:2146:C:N3	24:BA:2147:G:H1'	2.20	0.57
24:BA:2168:G:C2	24:BA:2170:A:H3'	2.40	0.57
26:BC:33:ALA:HB1	26:BC:39:GLU:OE1	2.04	0.57
26:BC:76:ALA:HB2	26:BC:153:ILE:HD11	1.84	0.57
26:BC:81:GLU:OE2	26:BC:82:LYS:HD3	2.05	0.57
1:AA:340:U:C2	1:AA:341:C:C5	2.92	0.57
24:BA:2670:A:C5'	28:BE:206:LYS:NZ	2.68	0.57
1:AA:1257:U:O2'	1:AA:1258:G:C8	2.57	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1269:A:H5'	1:AA:1326:C:C4'	2.34	0.57
1:AA:1390:U:C2	1:AA:1391:U:C4	2.92	0.57
1:AA:244:U:O2'	1:AA:245:C:OP2	2.22	0.57
1:AA:263:A:O5'	1:AA:263:A:H8	1.87	0.57
1:AA:434:U:C2	1:AA:435:C:C5	2.92	0.57
1:AA:539:A:OP1	14:AO:114:LYS:NZ	2.38	0.57
4:AE:113:HIS:HA	4:AE:116:GLU:OE2	2.04	0.57
4:AE:17:PHE:HA	4:AE:42:ILE:CG2	2.34	0.57
5:AF:35:GLU:C	5:AF:38:ARG:HG2	2.25	0.57
6:AG:15:GLU:OE2	6:AG:66:ARG:NH1	2.37	0.57
7:AH:13:ILE:CD1	7:AH:13:ILE:N	2.66	0.57
7:AH:80:ILE:CG2	7:AH:142:LEU:HD21	2.34	0.57
1:AA:932:C:H5''	9:AJ:3:ARG:CB	2.35	0.57
10:AK:7:ALA:O	10:AK:10:LEU:HB2	2.04	0.57
1:AA:692:U:O4	13:AN:52:GLY:C	2.43	0.57
13:AN:92:GLU:OE2	13:AN:96:ARG:HB2	2.05	0.57
15:AP:97:PRO:N	15:AP:110:ARG:HG2	2.19	0.57
15:AP:84:ILE:HD11	15:AP:86:CYS:SG	2.44	0.57
16:AQ:18:VAL:HG23	16:AQ:19:ARG:HG3	1.86	0.57
16:AQ:45:ARG:CB	16:AQ:45:ARG:NH1	2.54	0.57
17:AR:35:ARG:HH22	17:AR:59:MET:HE3	1.69	0.57
18:AS:20:VAL:HA	18:AS:36:ILE:HG13	1.85	0.57
19:AT:59:ILE:CG1	19:AT:60:ILE:N	2.67	0.57
20:AU:53:ARG:NH2	20:AU:60:GLY:N	2.50	0.57
49:B2:17:LYS:HA	49:B2:20:LYS:HE2	1.84	0.57
51:B4:4:HIS:NE2	51:B4:5:PRO:HB3	2.20	0.57
54:B7:15:LYS:O	54:B7:22:VAL:CG1	2.50	0.57
24:BA:1087:G:H2'	24:BA:1089:G:C4'	2.34	0.57
24:BA:1153:C:C2	24:BA:1154:G:C8	2.93	0.57
24:BA:1173:G:N2	24:BA:1175:U:OP1	2.37	0.57
24:BA:1366:A:C2	24:BA:1367:A:H1'	2.40	0.57
24:BA:1424:G:C2'	24:BA:1425:G:O5'	2.53	0.57
24:BA:1602:U:OP2	24:BA:1602:U:C4	2.57	0.57
24:BA:1668:A:N1	24:BA:1993:U:C1'	2.59	0.57
24:BA:1771:C:H2'	24:BA:1772:G:C8	2.39	0.57
24:BA:1931:U:C6	24:BA:1932:A:C8	2.91	0.57
24:BA:197:A:C2	24:BA:198:C:H1'	2.39	0.57
24:BA:197:A:C5	24:BA:2430:A:N7	2.73	0.57
24:BA:2043:C:C5	24:BA:2777:G:H1'	2.39	0.57
24:BA:2246:G:C4	24:BA:2426:A:C2	2.93	0.57
24:BA:245:G:N2	24:BA:254:G:C1'	2.68	0.57
24:BA:251:A:H2'	24:BA:252:G:O5'	2.05	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2528:U:HO2'	24:BA:2529:G:H8	1.50	0.57
24:BA:252:G:H21	24:BA:253:C:H1'	1.70	0.57
24:BA:2596:U:H2'	27:BD:242:ARG:NH2	2.16	0.57
24:BA:2564:A:C2	24:BA:2647:U:H4'	2.39	0.57
24:BA:2657:A:H2	24:BA:2665:A:H1'	1.58	0.57
24:BA:2674:G:O2'	24:BA:2675:A:H5'	2.05	0.57
24:BA:2675:A:C2	24:BA:2732:G:N2	2.73	0.57
24:BA:2675:A:O2'	24:BA:2676:C:H5'	2.04	0.57
24:BA:2729:G:C2'	24:BA:2730:C:H5'	2.35	0.57
24:BA:516:C:H2'	24:BA:517:C:H6	1.69	0.57
24:BA:547:A:H2'	24:BA:548:A:O4'	2.03	0.57
24:BA:569:U:O4	24:BA:570:G:C6	2.57	0.57
24:BA:724:U:H2'	24:BA:725:G:C5'	2.33	0.57
24:BA:793:A:H2'	24:BA:793:A:N3	2.19	0.57
24:BA:811:U:C3'	24:BA:811:U:C6	2.88	0.57
24:BA:942:G:N1	24:BA:943:U:C4	2.73	0.57
25:BB:66:A:C2	25:BB:108:C:C6	2.92	0.57
25:BB:67:G:C4	25:BB:68:C:C5	2.92	0.57
27:BD:118:VAL:N	27:BD:129:ASN:ND2	2.51	0.57
29:BF:52:LYS:HD2	29:BF:88:VAL:HG23	1.86	0.57
30:BG:6:ALA:O	30:BG:10:LYS:HG2	2.04	0.57
30:BG:138:GLN:HB2	30:BG:155:MET:CE	2.32	0.57
30:BG:153:ARG:O	30:BG:155:MET:SD	2.63	0.57
30:BG:36:LYS:NZ	30:BG:160:VAL:HG23	2.20	0.57
31:BH:135:GLY:HA3	31:BH:141:VAL:HG22	1.87	0.57
31:BH:170:ARG:O	31:BH:171:LEU:HD23	2.04	0.57
32:BK:9:LEU:HB2	32:BK:13:GLY:O	2.05	0.57
33:BL:68:VAL:CB	33:BL:70:LYS:HE3	2.34	0.57
34:BM:31:ALA:O	34:BM:32:THR:C	2.43	0.57
35:BN:10:VAL:HG22	35:BN:11:ALA:N	2.18	0.57
35:BN:34:THR:O	35:BN:61:VAL:HG21	2.05	0.57
35:BN:86:ILE:CG2	35:BN:87:ILE:N	2.68	0.57
36:BO:130:PHE:N	36:BO:130:PHE:CD2	2.71	0.57
36:BO:97:PRO:CA	36:BO:102:ARG:CZ	2.83	0.57
37:BP:56:ARG:O	37:BP:60:ARG:HG3	2.04	0.57
24:BA:873:G:H4'	37:BP:65:PHE:CZ	2.40	0.57
38:BQ:25:ALA:HA	38:BQ:48:VAL:CG2	2.34	0.57
39:BR:68:GLN:O	39:BR:70:GLY:N	2.38	0.57
35:BN:122:LEU:C	40:BS:74:ARG:NH2	2.58	0.57
41:BT:55:ARG:CB	41:BT:58:ARG:HE	2.14	0.57
41:BT:70:ARG:O	41:BT:71:GLN:C	2.43	0.57
41:BT:93:LYS:NZ	41:BT:93:LYS:CA	2.60	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BT:89:GLU:OE2	42:BU:52:VAL:HB	2.04	0.57
44:BW:24:GLY:O	44:BW:83:VAL:HG22	2.04	0.57
46:BY:95:PRO:CD	46:BY:131:ARG:HG2	2.34	0.57
46:BY:6:LYS:CG	46:BY:7:ALA:N	2.62	0.57
24:BA:2168:G:N1	24:BA:2171:A:OP2	2.38	0.57
26:BC:22:ILE:HG12	26:BC:189:ILE:HG21	1.87	0.57
24:BA:1511:A:H3'	24:BA:1511:A:H8	1.70	0.57
1:AA:1005:A:H2'	1:AA:1006:C:C5'	2.34	0.57
1:AA:1240:U:O2'	1:AA:1241:G:OP1	2.21	0.57
1:AA:1265:G:C2'	1:AA:1266:G:H5'	2.35	0.57
1:AA:129(A):G:H4'	1:AA:130:A:H5''	1.86	0.57
1:AA:1242:C:HO2'	1:AA:1303:C:H5''	1.64	0.57
1:AA:1364:U:O5'	1:AA:1364:U:H6	1.88	0.57
1:AA:769:G:H5'	1:AA:1513:A:C4'	2.34	0.57
1:AA:1515:C:O2'	1:AA:1516:G:H5'	2.05	0.57
1:AA:175:C:O2'	1:AA:176:C:H5'	2.04	0.57
1:AA:237:C:H2'	1:AA:238:G:C8	2.40	0.57
1:AA:389:A:N1	1:AA:390:C:H1'	2.20	0.57
1:AA:453:A:OP2	1:AA:453:A:H8	1.87	0.57
1:AA:575:G:C6	1:AA:821:G:C8	2.93	0.57
1:AA:696:A:C2	1:AA:697:U:O4'	2.58	0.57
1:AA:763:G:C2'	1:AA:764:C:O5'	2.53	0.57
1:AA:792:A:C2'	1:AA:794:A:H62	2.06	0.57
1:AA:843:U:C3'	1:AA:848:C:H5'	2.35	0.57
1:AA:861:G:H2'	1:AA:862:C:H6	1.69	0.57
1:AA:872:A:C6	1:AA:874:G:N7	2.73	0.57
1:AA:978:A:H3'	1:AA:978:A:H8	1.69	0.57
3:AC:14:A:H2'	3:AC:15:G:C8	2.37	0.57
3:AC:5:G:C2	3:AC:69:G:C2	2.92	0.57
4:AE:118:LEU:HD11	4:AE:141:GLU:OE1	2.04	0.57
4:AE:149:LEU:C	4:AE:151:GLY:N	2.56	0.57
4:AE:80:ILE:HD12	4:AE:208:ILE:CG2	2.34	0.57
5:AF:122:GLU:O	5:AF:125:GLU:CB	2.53	0.57
5:AF:142:MET:HA	5:AF:146:ALA:CB	2.34	0.57
5:AF:25:GLY:N	5:AF:28:GLN:HE22	2.03	0.57
6:AG:141:ARG:HD3	6:AG:142:PRO:CD	2.23	0.57
6:AG:169:LYS:CG	6:AG:176:LEU:HD21	2.34	0.57
6:AG:59:ARG:HB3	6:AG:63:LYS:HZ2	1.69	0.57
7:AH:18:ARG:HB2	7:AH:26:PHE:HA	1.86	0.57
8:AI:37:VAL:HA	8:AI:65:VAL:HG11	1.87	0.57
9:AJ:63:LYS:O	9:AJ:66:VAL:HB	2.05	0.57
10:AK:126:LYS:CE	10:AK:127:LEU:HB2	2.34	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AK:7:ALA:HA	10:AK:10:LEU:CG	2.35	0.57
12:AM:29:ARG:HB2	12:AM:84:GLN:HE21	1.69	0.57
12:AM:45:ARG:HG2	12:AM:65:LEU:O	2.04	0.57
12:AM:6:ILE:HD11	12:AM:73:ASP:H	1.70	0.57
12:AM:32:ALA:CB	12:AM:75:ILE:HB	2.34	0.57
14:AO:29:GLY:O	14:AO:30:ALA:O	2.21	0.57
14:AO:46:LYS:HE3	14:AO:47:LYS:HZ1	1.69	0.57
15:AP:102:ARG:C	15:AP:104:ARG:H	2.08	0.57
12:AM:49:VAL:CG2	16:AQ:41:ARG:HB2	2.35	0.57
17:AR:27:VAL:HG12	17:AR:31:LEU:HD22	1.87	0.57
18:AS:23:ASP:CG	18:AS:33:ILE:HD11	2.23	0.57
18:AS:27:LYS:O	18:AS:28:ARG:C	2.41	0.57
19:AT:43:LEU:CD2	19:AT:44:ALA:O	2.53	0.57
20:AU:22:VAL:HG22	20:AU:55:ARG:O	2.05	0.57
20:AU:45:SER:N	20:AU:51:LEU:HD21	2.20	0.57
20:AU:75:ILE:HG22	20:AU:76:LEU:HD22	1.87	0.57
23:AX:9:ARG:O	23:AX:10:ARG:C	2.43	0.57
48:B1:20:VAL:HG21	48:B1:56:LEU:CD1	2.33	0.57
52:B5:17:LYS:HD3	52:B5:17:LYS:H	1.70	0.57
24:BA:1092:C:C6	24:BA:1092:C:C3'	2.87	0.57
24:BA:330:A:H2	24:BA:1210:A:H2'	1.70	0.57
24:BA:123:G:N2	24:BA:124:G:H1'	2.19	0.57
24:BA:1247:A:O2'	24:BA:1248:G:P	2.63	0.57
24:BA:1264:G:OP1	51:B4:15:ARG:NH1	2.35	0.57
24:BA:1272:A:HO2'	24:BA:1273:U:P	2.27	0.57
24:BA:1274:A:C2	24:BA:1302:A:C2	2.91	0.57
24:BA:124:G:OP1	24:BA:1376:C:C1'	2.53	0.57
24:BA:1472:A:C2'	24:BA:1473:G:C8	2.87	0.57
24:BA:14:A:N6	24:BA:15:G:C2	2.71	0.57
24:BA:1272:A:N1	24:BA:1618:A:C2	2.73	0.57
24:BA:786:C:C5'	24:BA:1780:A:C8	2.88	0.57
24:BA:1936:A:H1'	24:BA:1940:U:C4	2.40	0.57
24:BA:1999:C:H2'	24:BA:2000:G:C5'	2.34	0.57
24:BA:2097:C:H2'	24:BA:2098:U:C5'	2.34	0.57
24:BA:2215:G:H2'	24:BA:2216:G:H8	1.69	0.57
24:BA:2253:G:H2'	24:BA:2254:C:C6	2.37	0.57
24:BA:2416:C:H5''	36:BO:59:LEU:CB	2.10	0.57
24:BA:2416:C:C6	24:BA:2416:C:O5'	2.58	0.57
24:BA:242:G:H8	54:B7:4:MET:HG2	1.64	0.57
24:BA:2470:G:N2	24:BA:2471:C:C2	2.72	0.57
24:BA:2585:U:C6	24:BA:2585:U:OP1	2.58	0.57
24:BA:2627:G:C6	24:BA:2777:G:O6	2.57	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2736:G:N2	24:BA:2769:C:H1'	2.18	0.57
24:BA:2523:G:C1'	24:BA:2765:A:H62	2.17	0.57
24:BA:2782:G:OP2	24:BA:2782:G:O4'	2.22	0.57
24:BA:281:G:H22	24:BA:283:A:C4'	2.18	0.57
24:BA:2692:C:O2'	24:BA:2847:U:O2'	2.14	0.57
24:BA:2848:G:C2'	40:BS:99:LEU:HD21	2.35	0.57
24:BA:2859:G:O2'	24:BA:2860:A:H5'	2.04	0.57
24:BA:323:G:H4'	24:BA:324:A:O5'	2.04	0.57
24:BA:714:U:H2'	24:BA:715:G:H3'	1.85	0.57
24:BA:763:G:C4	24:BA:765:G:C8	2.93	0.57
24:BA:931:G:C4	49:B2:24:LYS:HE3	2.38	0.57
24:BA:821:A:H8	24:BA:946:G:C5	2.22	0.57
25:BB:104:A:C2'	25:BB:105:G:O4'	2.53	0.57
27:BD:108:PRO:CA	27:BD:195:ALA:O	2.51	0.57
27:BD:208:LYS:HE2	27:BD:211:ARG:CG	2.35	0.57
27:BD:55:GLY:N	27:BD:218:ARG:HD3	2.20	0.57
27:BD:8:PRO:HD2	27:BD:26:LYS:N	2.19	0.57
28:BE:109:LYS:CA	28:BE:191:PRO:HD3	2.35	0.57
28:BE:122:PHE:N	28:BE:122:PHE:CD1	2.72	0.57
28:BE:57:LYS:O	28:BE:58:ARG:HB2	2.04	0.57
31:BH:11:VAL:HG21	31:BH:17:VAL:HG21	1.86	0.57
31:BH:54:ARG:HH11	31:BH:57:ASP:CB	2.18	0.57
34:BM:118:LYS:O	34:BM:121:LYS:HE3	2.03	0.57
34:BM:46:VAL:O	34:BM:47:ALA:CB	2.52	0.57
35:BN:18:LYS:HE2	35:BN:44:LYS:HD2	1.87	0.57
36:BO:123:LEU:HD12	36:BO:130:PHE:CE2	2.40	0.57
37:BP:109:VAL:HG11	37:BP:114:ALA:N	2.20	0.57
38:BQ:6:SER:OG	38:BQ:9:LYS:CE	2.53	0.57
39:BR:41:ASP:CG	39:BR:42:ASP:N	2.54	0.57
39:BR:96:GLY:O	39:BR:97:ARG:C	2.43	0.57
41:BT:89:GLU:O	41:BT:90:VAL:CG2	2.52	0.57
45:BX:97:ARG:CA	45:BX:101:LYS:HG3	2.27	0.57
46:BY:116:VAL:HG21	46:BY:145:GLU:HA	1.86	0.57
46:BY:10:ARG:O	46:BY:11:GLU:HB2	2.05	0.57
46:BY:17:ALA:HA	46:BY:20:ARG:CZ	2.35	0.57
46:BY:4:ARG:HG2	46:BY:38:TYR:O	2.05	0.57
46:BY:43:GLU:O	46:BY:44:PHE:C	2.43	0.57
25:BB:76:G:H1'	46:BY:75:ASN:ND2	2.20	0.57
32:BK:109:ILE:HG12	32:BK:113:ARG:NH2	2.20	0.57
24:BA:2132:U:O2	24:BA:2132:U:C2'	2.53	0.57
26:BC:223:ARG:HB2	26:BC:223:ARG:NH1	2.19	0.57
24:BA:1484:G:H2'	24:BA:1485:G:H5"	1.85	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1089:G:C2'	1:AA:1090:U:H5'	2.34	0.57
1:AA:1144:G:H2'	1:AA:1144:G:N3	2.20	0.57
1:AA:1196:U:O2'	1:AA:1197:G:OP2	2.21	0.57
1:AA:1448:C:C2	1:AA:1459:C:O2	2.58	0.57
1:AA:1455:G:O2'	1:AA:1459:C:H5'	2.05	0.57
1:AA:173:U:C5'	1:AA:197:A:O2'	2.53	0.57
1:AA:176:C:H2'	1:AA:177:C:H6	1.70	0.57
1:AA:33:A:O2'	1:AA:363:A:H1'	2.05	0.57
1:AA:372:C:N3	1:AA:376:G:O6	2.37	0.57
1:AA:406:G:N2	1:AA:407:G:C4	2.73	0.57
1:AA:409:G:OP2	6:AG:22:LYS:HG2	2.04	0.57
1:AA:654:G:H1'	1:AA:753:A:C2	2.40	0.57
1:AA:730:G:C5	1:AA:731:G:H1'	2.39	0.57
1:AA:752:G:OP2	1:AA:752:G:C8	2.58	0.57
1:AA:889:A:H5''	1:AA:890:G:OP1	2.04	0.57
1:AA:1103:C:O2'	4:AE:111:ARG:HD2	2.05	0.57
4:AE:157:ARG:HG2	4:AE:158:LEU:CD2	2.35	0.57
4:AE:15:VAL:HG22	4:AE:209:ARG:CZ	2.34	0.57
4:AE:25:ASN:OD1	4:AE:192:SER:O	2.22	0.57
5:AF:21:ARG:HD2	5:AF:58:GLU:OE2	2.05	0.57
5:AF:55:VAL:HG22	5:AF:68:VAL:CG1	2.32	0.57
6:AG:120:LEU:C	6:AG:120:LEU:HD12	2.25	0.57
6:AG:173:TRP:CA	6:AG:186:LEU:HD12	2.34	0.57
6:AG:98:GLU:OE2	6:AG:103:ASN:OD1	2.22	0.57
1:AA:8:A:H4'	7:AH:102:ALA:HA	1.87	0.57
7:AH:109:ILE:HG23	7:AH:110:LEU:CD2	2.34	0.57
8:AI:50:TYR:CZ	20:AU:77:GLY:HA2	2.39	0.57
9:AJ:23:VAL:HG12	9:AJ:24:THR:N	2.19	0.57
10:AK:18:ARG:N	10:AK:18:ARG:CZ	2.68	0.57
13:AN:84:VAL:CG2	13:AN:111:ASP:H	2.17	0.57
15:AP:2:ALA:O	15:AP:4:ILE:N	2.37	0.57
15:AP:90:LEU:HA	15:AP:93:ARG:CB	2.34	0.57
16:AQ:19:ARG:O	16:AQ:20:ALA:C	2.44	0.57
1:AA:1114:C:H1'	16:AQ:60:SER:CB	2.32	0.57
17:AR:63:ARG:NH2	17:AR:87:ILE:HG21	2.19	0.57
19:AT:43:LEU:C	19:AT:43:LEU:CD1	2.66	0.57
1:AA:189:U:H3	19:AT:63:ARG:HE	1.53	0.57
19:AT:7:THR:HG22	19:AT:8:GLY:N	2.18	0.57
21:AV:80:TYR:CE2	21:AV:81:ARG:HD3	2.40	0.57
1:AA:194:C:H5''	22:AW:65:LYS:CD	2.35	0.57
48:B1:19:LEU:HD13	48:B1:19:LEU:C	2.24	0.57
48:B1:42:ASN:O	48:B1:45:ILE:HG23	2.05	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:B1:48:LEU:HA	48:B1:51:GLN:CD	2.25	0.57
48:B1:20:VAL:CG2	48:B1:55:LEU:HD23	2.34	0.57
49:B2:8:LEU:HB2	49:B2:33:GLN:HB3	1.86	0.57
50:B3:5:ILE:HD13	50:B3:60:GLN:OE1	2.05	0.57
51:B4:12:SER:C	51:B4:14:ALA:N	2.51	0.57
53:B6:35:ARG:HH11	53:B6:35:ARG:HB2	1.69	0.57
24:BA:565:C:O3'	24:BA:1253:A:C2	2.58	0.57
24:BA:1316:U:H5'	24:BA:1392:A:H1'	1.87	0.57
24:BA:1439:A:H2'	24:BA:1440:G:C5'	2.34	0.57
24:BA:1477:A:H3'	24:BA:1478:G:O4'	2.04	0.57
24:BA:781:A:O2'	24:BA:1788:C:O2	2.22	0.57
24:BA:1943:U:O2'	24:BA:1944:U:P	2.63	0.57
24:BA:530:G:H22	24:BA:2021:C:C2'	2.18	0.57
24:BA:2051:A:H3'	24:BA:2578:G:H5''	1.85	0.57
24:BA:2067:G:N1	24:BA:2069:G:C4	2.73	0.57
24:BA:2259:G:O4'	24:BA:2427:C:C6	2.58	0.57
24:BA:2269:A:C2	24:BA:2270:G:C1'	2.88	0.57
24:BA:2298:A:N1	24:BA:2321:G:C6	2.73	0.57
24:BA:2322:A:N3	24:BA:2323:G:H5'	2.19	0.57
24:BA:2333:A:C4'	24:BA:2335:A:O4'	2.52	0.57
24:BA:2623:G:H5'	24:BA:2826:A:C1'	2.33	0.57
24:BA:2661:G:C4	24:BA:2662:A:N7	2.72	0.57
24:BA:1456:G:H1	24:BA:2703:C:H42	1.51	0.57
24:BA:2815:C:O2	24:BA:2816:C:C6	2.57	0.57
24:BA:2815:C:H2'	24:BA:2816:C:H6	1.70	0.57
24:BA:356:G:H3'	24:BA:357:A:C8	2.39	0.57
24:BA:650:C:O2	24:BA:651:G:O4'	2.23	0.57
24:BA:721:C:C2	24:BA:722:A:N7	2.73	0.57
24:BA:740:U:O5'	24:BA:1784:A:N1	2.38	0.57
24:BA:878:A:N9	24:BA:879:G:N7	2.53	0.57
27:BD:168:ARG:CD	27:BD:173:VAL:HG22	2.29	0.57
24:BA:659:C:H5'	29:BF:102:PRO:HD3	1.87	0.57
29:BF:116:ASP:HA	29:BF:119:ARG:HG3	1.87	0.57
29:BF:156:LEU:CG	29:BF:173:VAL:HG23	2.32	0.57
29:BF:194:MET:SD	29:BF:200:GLU:HG2	2.44	0.57
30:BG:30:GLU:OE2	30:BG:33:ARG:NE	2.36	0.57
31:BH:69:ARG:HH21	31:BH:69:ARG:CG	2.17	0.57
32:BK:34:GLY:N	32:BK:35:LEU:HD22	2.20	0.57
32:BK:4:ILE:HD11	32:BK:39:ALA:H	1.68	0.57
34:BM:10:GLU:O	34:BM:12:ARG:NH2	2.38	0.57
34:BM:67:LEU:HB2	34:BM:88:GLU:OE1	2.05	0.57
37:BP:29:PHE:CD1	37:BP:29:PHE:O	2.56	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:6:ARG:NH2	37:BP:9:TYR:N	2.53	0.57
39:BR:42:ASP:OD2	39:BR:43:GLU:N	2.38	0.57
40:BS:104:ASN:O	40:BS:108:ARG:NH1	2.38	0.57
42:BU:67:GLY:O	42:BU:92:THR:OG1	2.23	0.57
43:BV:20:VAL:CG1	43:BV:21:VAL:N	2.67	0.57
45:BX:96:ILE:HD12	45:BX:96:ILE:H	1.69	0.57
46:BY:57:ILE:O	46:BY:58:VAL:HG22	2.05	0.57
25:BB:12:C:O4'	47:BZ:74:ARG:HG2	2.05	0.57
24:BA:2134:A:N1	24:BA:2135:A:N1	2.51	0.57
24:BA:2126:A:N7	24:BA:2163:C:H4'	2.19	0.57
26:BC:20:TYR:CE1	26:BC:222:VAL:CG2	2.88	0.57
24:BA:1482:U:H2'	24:BA:1483:G:H4'	1.86	0.57
24:BA:1579:A:H61	24:BA:1581:G:H21	1.53	0.57
43:BV:95:ILE:N	43:BV:95:ILE:HD12	2.15	0.57
24:BA:363(B):G:P	24:BA:363(B):G:H3'	2.45	0.57
24:BA:1563:G:H2'	24:BA:1564:C:C6	2.39	0.57
6:AG:151:LYS:HD2	6:AG:151:LYS:N	2.20	0.57
32:BK:47:LEU:HD11	32:BK:51:ILE:HD11	1.87	0.57
2:A1:39:U:O5'	2:A1:40:U:OP1	2.23	0.56
1:AA:1049:U:O5'	1:AA:1049:U:C6	2.58	0.56
1:AA:1216:G:C4	1:AA:1217:C:C5	2.93	0.56
1:AA:1226:C:O2'	1:AA:1227:A:P	2.62	0.56
1:AA:949:A:C1'	1:AA:1364:U:H3	2.18	0.56
1:AA:1436:U:H2'	1:AA:1437:C:C6	2.38	0.56
1:AA:173:U:H4'	1:AA:197:A:N3	2.20	0.56
1:AA:22:G:C4	1:AA:23:C:C5	2.93	0.56
1:AA:251:G:C2	1:AA:266:G:C6	2.93	0.56
1:AA:366:C:HO2'	1:AA:367:U:P	2.27	0.56
1:AA:409:G:C2	1:AA:410:G:C8	2.93	0.56
1:AA:533:A:C6	1:AA:536:C:C4	2.93	0.56
1:AA:587:G:N2	1:AA:755:G:C5	2.72	0.56
1:AA:754:C:C2'	1:AA:755:G:OP1	2.53	0.56
1:AA:934:C:N3	1:AA:938:A:N6	2.48	0.56
4:AE:173:ALA:HA	4:AE:176:GLU:CB	2.34	0.56
4:AE:42:ILE:HG12	4:AE:43:ASP:N	2.16	0.56
4:AE:57:PHE:O	4:AE:57:PHE:HD2	1.88	0.56
6:AG:114:ARG:CG	6:AG:114:ARG:HH11	2.17	0.56
6:AG:154:ASN:HD22	6:AG:155:LEU:N	2.02	0.56
6:AG:200:GLU:HG3	6:AG:201:GLN:H	1.67	0.56
6:AG:15:GLU:CG	6:AG:63:LYS:HB3	2.35	0.56
7:AH:142:LEU:H	7:AH:143:ARG:HE	1.52	0.56
7:AH:61:TYR:HA	7:AH:64:ARG:HG3	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AI:42:GLU:HB2	8:AI:61:LEU:HD23	1.87	0.56
8:AI:50:TYR:CZ	8:AI:52:ILE:HD11	2.40	0.56
8:AI:6:VAL:HG12	8:AI:63:TYR:H	1.69	0.56
8:AI:9:VAL:HG13	8:AI:59:TYR:O	2.05	0.56
9:AJ:5:ARG:HB3	9:AJ:5:ARG:HH11	1.68	0.56
11:AL:67:GLY:N	11:AL:73:GLN:HE21	2.03	0.56
18:AS:39:TYR:HD1	18:AS:40:ASP:N	2.02	0.56
20:AU:77:GLY:C	20:AU:79:LEU:HD12	2.25	0.56
21:AV:80:TYR:CE2	21:AV:81:ARG:CD	2.88	0.56
22:AW:25:ARG:O	22:AW:28:ALA:HB3	2.04	0.56
54:B7:39:LYS:N	54:B7:39:LYS:HZ3	2.02	0.56
24:BA:987:G:HO2'	24:BA:1000:A:H1'	1.69	0.56
24:BA:1106:G:H8	24:BA:1106:G:C5'	2.18	0.56
24:BA:1170:G:C2'	24:BA:1170:G:N3	2.68	0.56
24:BA:1205:U:N3	24:BA:1207:C:N4	2.52	0.56
24:BA:1207:C:OP2	24:BA:1207:C:C6	2.58	0.56
24:BA:513:A:O2'	24:BA:1217:C:OP1	2.22	0.56
24:BA:1392:A:C6	24:BA:1393:A:C6	2.92	0.56
24:BA:1471:A:C8	24:BA:1521:G:N1	2.72	0.56
24:BA:1473:G:O2'	24:BA:1474:C:H5'	2.04	0.56
24:BA:1514:U:H2'	24:BA:1514:U:O2	2.03	0.56
24:BA:1526:G:N2	24:BA:1546:C:C4	2.72	0.56
24:BA:1702:G:C5	24:BA:1703:G:N7	2.72	0.56
24:BA:1799:G:C6	27:BD:177:LEU:HD12	2.40	0.56
24:BA:180:G:OP1	53:B6:32:LYS:HD3	2.05	0.56
24:BA:1838:C:C5	24:BA:1899:G:C6	2.93	0.56
24:BA:1905:C:H5'	24:BA:1928:A:H61	1.69	0.56
24:BA:1944:U:O4'	24:BA:1955:U:C6	2.58	0.56
24:BA:1955:U:OP2	24:BA:1956:U:O4	2.22	0.56
24:BA:1957:C:C2	24:BA:1958:C:C5	2.93	0.56
24:BA:1935:G:C1'	24:BA:1964:G:N2	2.68	0.56
24:BA:1982:C:N4	24:BA:1983:C:N4	2.53	0.56
24:BA:1993:U:O2'	24:BA:1994:C:H5'	2.05	0.56
24:BA:2011:U:C2'	24:BA:2012:G:H8	2.18	0.56
24:BA:2323:G:C2	24:BA:2324:C:N3	2.72	0.56
24:BA:246:C:C2	24:BA:247:G:C8	2.93	0.56
24:BA:2552:U:O2	24:BA:2554:U:H5''	2.05	0.56
24:BA:2682:U:C2'	24:BA:2683:C:O5'	2.53	0.56
24:BA:2725:A:O2'	24:BA:2726:U:H6	1.88	0.56
24:BA:2749:A:O3'	31:BH:62:LYS:HE2	2.05	0.56
24:BA:2808:U:O3'	24:BA:2810:A:OP1	2.23	0.56
24:BA:2810:A:H2'	24:BA:2811:G:H5'	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:373:U:C2	24:BA:400:G:N2	2.73	0.56
24:BA:629:G:H5'	24:BA:649:G:N3	2.20	0.56
24:BA:641:C:H2'	24:BA:642:G:C5'	2.35	0.56
24:BA:684:G:C2	24:BA:775:G:C6	2.93	0.56
27:BD:232:PRO:HG2	27:BD:247:ALA:C	2.26	0.56
27:BD:64:ILE:O	27:BD:64:ILE:CG2	2.53	0.56
29:BF:103:LYS:HB3	29:BF:107:LYS:CE	2.32	0.56
30:BG:1:MET:C	30:BG:3:LEU:H	2.08	0.56
31:BH:167:GLU:C	31:BH:169:VAL:H	2.08	0.56
31:BH:61:HIS:O	31:BH:64:LEU:HB2	2.05	0.56
32:BK:5:LEU:CD1	32:BK:8:PRO:HB2	2.35	0.56
35:BN:68:GLU:HB2	35:BN:104:ARG:HD2	1.86	0.56
36:BO:81:GLN:CA	36:BO:86:LYS:CG	2.83	0.56
37:BP:102:VAL:HG13	37:BP:104:PHE:CE1	2.40	0.56
37:BP:120:ILE:O	37:BP:124:LYS:CG	2.53	0.56
37:BP:9:TYR:HD2	37:BP:9:TYR:H	1.52	0.56
38:BQ:110:PRO:C	38:BQ:111:LEU:HD23	2.26	0.56
40:BS:32:TYR:CD2	40:BS:88:ILE:HA	2.40	0.56
40:BS:72:VAL:N	40:BS:74:ARG:NH1	2.52	0.56
43:BV:88:ARG:O	43:BV:89:ALA:HB3	2.04	0.56
45:BX:49:VAL:HB	45:BX:51:VAL:HG23	1.86	0.56
47:BZ:1:MET:O	47:BZ:2:ALA:HB3	2.05	0.56
47:BZ:46:LYS:HE3	47:BZ:76:GLY:HA3	1.87	0.56
3:AD:18:G:N1	3:AD:57:G:C2	2.73	0.56
24:BA:2111:C:N4	24:BA:2145:C:C5	2.73	0.56
26:BC:22:ILE:CD1	26:BC:193:ILE:HD11	2.35	0.56
1:AA:1138:G:N1	1:AA:1140:C:C6	2.73	0.56
1:AA:1241:G:H8	1:AA:1241:G:OP2	1.88	0.56
1:AA:1305:G:OP1	23:AX:2:GLY:HA3	2.05	0.56
1:AA:1348:U:O2	1:AA:1349:A:C8	2.57	0.56
1:AA:1361:G:H3'	1:AA:1361:G:H8	1.69	0.56
1:AA:1405:G:C4	1:AA:1406:U:H5	2.23	0.56
1:AA:1430:C:N3	1:AA:1431:C:H5	2.02	0.56
1:AA:1431:C:N4	1:AA:1470:G:C6	2.74	0.56
1:AA:187:C:C4	1:AA:188:U:O2	2.58	0.56
1:AA:560:U:O5'	1:AA:566:G:N2	2.38	0.56
1:AA:571:U:C5'	1:AA:571:U:H6	2.19	0.56
1:AA:738:C:C2	1:AA:739:C:C5	2.93	0.56
1:AA:81:G:H3'	1:AA:82:U:H5''	1.87	0.56
1:AA:952:U:C5'	1:AA:972:C:N4	2.65	0.56
1:AA:993:G:O2'	1:AA:994:A:P	2.63	0.56
3:AC:74:C:H5''	24:BA:2602:A:C3'	2.35	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AD:37:A:H3'	3:AD:38:A:H8	1.70	0.56
5:AF:201:TYR:HD1	5:AF:201:TYR:N	2.02	0.56
5:AF:181:ASN:HD21	5:AF:206:GLU:HG2	1.70	0.56
6:AG:190:ASP:O	6:AG:191:ARG:C	2.43	0.56
6:AG:17:VAL:O	6:AG:19:LEU:HD23	2.04	0.56
8:AI:89:MET:CE	20:AU:75:ILE:HG21	2.36	0.56
9:AJ:69:VAL:HG21	9:AJ:104:LEU:CG	2.34	0.56
10:AK:85:ARG:CG	10:AK:85:ARG:NH1	2.66	0.56
11:AL:96:LEU:HD12	11:AL:101:PHE:HE1	1.70	0.56
12:AM:52:GLY:H	12:AM:59:SER:CB	2.18	0.56
13:AN:111:ASP:O	13:AN:112:THR:C	2.43	0.56
18:AS:51:VAL:O	18:AS:52:ASP:C	2.42	0.56
24:BA:988:A:H62	49:B2:13:ILE:CD1	2.18	0.56
24:BA:400:G:O6	50:B3:63:TYR:HE2	1.88	0.56
24:BA:2815:C:C2'	51:B4:42:PRO:HG3	2.34	0.56
52:B5:51:GLU:OE1	52:B5:52:VAL:N	2.38	0.56
53:B6:21:ARG:HH11	53:B6:21:ARG:HB2	1.70	0.56
24:BA:1024:G:OP2	24:BA:1025:G:C2	2.58	0.56
24:BA:1087:G:H2'	24:BA:1089:G:H4'	1.87	0.56
24:BA:116:C:O2'	24:BA:117:G:H5'	2.05	0.56
24:BA:1199:U:OP2	24:BA:1199:U:C6	2.58	0.56
24:BA:1298:C:O2'	24:BA:1302:A:C8	2.58	0.56
24:BA:1366:A:H5''	50:B3:1:MET:H2	1.70	0.56
24:BA:1429:G:C4	24:BA:1568:G:C6	2.92	0.56
24:BA:1645:G:H5''	24:BA:1646:C:H5'	1.86	0.56
24:BA:1656:C:H5''	28:BE:136:ARG:CZ	2.35	0.56
24:BA:1993:U:N1	24:BA:1994:C:C5	2.73	0.56
24:BA:2008:C:O2'	24:BA:2009:G:H5'	2.04	0.56
24:BA:190:A:N6	24:BA:207:A:C8	2.73	0.56
24:BA:209:C:H2'	24:BA:210:C:C5'	2.33	0.56
24:BA:2283:C:C6	24:BA:2389:G:N3	2.73	0.56
24:BA:2290:G:C2	24:BA:2291:U:C2	2.92	0.56
24:BA:2432:A:N1	50:B3:31:ILE:HD13	2.19	0.56
3:AC:76:A:C2	24:BA:2506:U:N3	2.73	0.56
24:BA:2519:U:C6	24:BA:2542:A:N1	2.72	0.56
24:BA:2517:C:C5	24:BA:2542:A:N7	2.73	0.56
24:BA:221:A:N7	24:BA:266:G:C5	2.73	0.56
24:BA:2679:A:C2'	24:BA:2680:C:H5'	2.34	0.56
24:BA:270(V):G:C6	24:BA:270(W):G:O6	2.57	0.56
24:BA:270(X):G:N2	24:BA:270(Y):G:O2'	2.38	0.56
24:BA:2715:C:C2	24:BA:2716:U:C6	2.93	0.56
24:BA:2721:A:C2'	24:BA:2722:G:H8	2.18	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2723:C:O2'	38:BQ:2:ARG:CA	2.51	0.56
24:BA:2740:A:N6	24:BA:2741:A:N6	2.52	0.56
24:BA:27:G:N2	24:BA:512:G:C2'	2.69	0.56
24:BA:2815:C:C3'	51:B4:42:PRO:HG3	2.35	0.56
24:BA:448:U:C2'	24:BA:449:A:OP1	2.53	0.56
24:BA:28:A:C8	24:BA:513:A:C6	2.93	0.56
24:BA:513:A:O2'	24:BA:514:A:H5'	2.04	0.56
24:BA:548:A:N7	24:BA:549:G:H1'	2.20	0.56
24:BA:573:G:C2'	24:BA:574:C:O5'	2.53	0.56
24:BA:584:C:H2'	24:BA:585:G:H5'	1.87	0.56
24:BA:769:G:C2	24:BA:770:G:C8	2.93	0.56
24:BA:774:A:O2'	24:BA:775:G:P	2.63	0.56
24:BA:786:C:H5''	24:BA:1780:A:H8	1.70	0.56
24:BA:867:C:N4	24:BA:868:U:C4	2.73	0.56
24:BA:896:A:C2	24:BA:897:C:C5	2.94	0.56
27:BD:183:ARG:HA	27:BD:268:ARG:CA	2.35	0.56
27:BD:46:GLN:NE2	27:BD:51:VAL:HG23	2.19	0.56
28:BE:116:VAL:O	28:BE:117:MET:O	2.22	0.56
24:BA:2512:C:OP1	28:BE:120:TRP:HH2	1.89	0.56
28:BE:131:ALA:CB	28:BE:134:ILE:HG13	2.32	0.56
28:BE:198:VAL:C	28:BE:199:ARG:HD2	2.24	0.56
30:BG:19:LEU:HG	30:BG:22:ARG:NE	2.19	0.56
30:BG:74:LYS:CD	30:BG:87:PRO:HG3	2.30	0.56
33:BL:17:ALA:HB2	33:BL:42:ASN:OD1	2.05	0.56
34:BM:17:ASP:OD1	34:BM:18:ALA:N	2.39	0.56
34:BM:67:LEU:HA	34:BM:70:LYS:NZ	2.21	0.56
36:BO:122:PRO:HG3	36:BO:138:LEU:N	2.20	0.56
37:BP:29:PHE:HB2	37:BP:104:PHE:CD2	2.40	0.56
37:BP:104:PHE:O	37:BP:105:GLU:CD	2.43	0.56
38:BQ:96:ARG:CG	38:BQ:98:LEU:CD1	2.83	0.56
39:BR:75:GLU:C	39:BR:78:LEU:HB3	2.25	0.56
24:BA:1151:G:H4'	41:BT:81:HIS:CD2	2.40	0.56
42:BU:12:TYR:HE1	42:BU:14:VAL:HB	1.69	0.56
42:BU:69:LYS:CG	42:BU:70:ILE:HG13	2.31	0.56
42:BU:72:VAL:O	42:BU:73:SER:O	2.23	0.56
42:BU:77:ALA:O	42:BU:84:LYS:HA	2.05	0.56
43:BV:8:ARG:C	43:BV:102:HIS:CD2	2.77	0.56
24:BA:86:C:OP1	45:BX:30:VAL:HG23	2.05	0.56
45:BX:32:PRO:O	45:BX:34:LYS:N	2.37	0.56
47:BZ:32:ARG:CZ	47:BZ:32:ARG:CB	2.83	0.56
26:BC:102:LYS:O	26:BC:105:ASP:HB2	2.05	0.56
26:BC:211:SER:HB2	26:BC:213:TYR:CE1	2.40	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:BC:60:GLY:O	26:BC:61:THR:CB	2.52	0.56
1:AA:101:A:C4	1:AA:102:G:C8	2.93	0.56
1:AA:132:C:O2'	1:AA:133:U:O5'	2.23	0.56
1:AA:815:A:C5	1:AA:1529:G:C6	2.93	0.56
1:AA:171:A:O2'	1:AA:172:A:H5'	2.05	0.56
1:AA:230:G:H4'	18:AS:25:ARG:NH1	2.20	0.56
1:AA:379:C:H2'	1:AA:380:G:C5'	2.35	0.56
1:AA:37:U:H2'	1:AA:38:G:H5'	1.86	0.56
1:AA:465:A:H5'	1:AA:466:C:OP2	2.06	0.56
1:AA:55:A:C2'	1:AA:56:U:C5'	2.80	0.56
1:AA:682:G:C6	1:AA:683:G:N7	2.73	0.56
1:AA:80:G:H3'	1:AA:81:G:H8	1.70	0.56
1:AA:907:A:C2'	1:AA:908:A:H8	2.16	0.56
3:AC:21:A:C2	3:AC:48:C:C4	2.93	0.56
3:AC:41:C:C2'	3:AC:42:C:O5'	2.53	0.56
3:AD:76:A:C8	24:BA:2432:A:N3	2.74	0.56
4:AE:162:ILE:O	4:AE:185:ILE:CD1	2.53	0.56
4:AE:78:GLN:HE22	4:AE:96:ARG:CZ	2.17	0.56
5:AF:157:ILE:O	5:AF:159:GLY:N	2.38	0.56
6:AG:11:LEU:C	6:AG:19:LEU:HD12	2.25	0.56
6:AG:72:GLU:HA	6:AG:72:GLU:OE1	2.05	0.56
7:AH:43:LEU:HB3	7:AH:136:MET:HE2	1.86	0.56
7:AH:151:LEU:HD21	10:AK:67:PRO:CG	2.34	0.56
7:AH:16:THR:CG2	7:AH:28:PHE:HA	2.34	0.56
8:AI:100:ASN:O	20:AU:28:GLU:N	2.39	0.56
9:AJ:89:MET:HE2	9:AJ:156:TRP:CD1	2.39	0.56
9:AJ:76:ARG:HH11	9:AJ:89:MET:HG3	1.69	0.56
10:AK:81:HIS:HB3	10:AK:138:TRP:O	2.05	0.56
15:AP:10:PRO:HG3	15:AP:18:ALA:CA	2.35	0.56
16:AQ:33:VAL:O	16:AQ:34:TYR:O	2.23	0.56
16:AQ:55:GLY:O	16:AQ:56:VAL:O	2.23	0.56
19:AT:8:GLY:O	19:AT:56:VAL:CG1	2.53	0.56
20:AU:63:GLN:O	20:AU:67:ALA:CB	2.53	0.56
20:AU:80:PRO:O	20:AU:81:PHE:C	2.44	0.56
48:B1:28:MET:O	48:B1:29:GLU:C	2.44	0.56
49:B2:10:LYS:CE	49:B2:31:LEU:HD21	2.30	0.56
50:B3:56:VAL:HB	50:B3:61:ARG:NE	2.20	0.56
50:B3:5:ILE:C	50:B3:7:PRO:HD2	2.25	0.56
54:B7:40:GLU:O	54:B7:43:GLN:OE1	2.23	0.56
24:BA:1035:U:H2'	24:BA:1036:G:O4'	2.05	0.56
24:BA:1152:C:H4'	41:BT:80:ILE:HG21	1.87	0.56
24:BA:1227:A:C3'	24:BA:1228:G:H5''	2.36	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1223:C:C4	24:BA:1227:A:N1	2.73	0.56
24:BA:1310:G:H2'	24:BA:1311:G:O4'	2.05	0.56
24:BA:1324:G:H1'	24:BA:1616:A:H61	1.67	0.56
24:BA:1523:U:N3	24:BA:1524:G:N7	2.54	0.56
24:BA:1654:A:HO2'	28:BE:113:PHE:HD1	1.52	0.56
24:BA:1904:G:C2'	24:BA:1905:C:O5'	2.53	0.56
24:BA:1941:C:O2	24:BA:1941:C:C2'	2.52	0.56
24:BA:1942:C:P	24:BA:1943:U:H3'	2.46	0.56
24:BA:1995:U:C5'	24:BA:1996:C:C5'	2.65	0.56
24:BA:2026:C:C2'	24:BA:2027:G:H5'	2.35	0.56
24:BA:2075:U:O2	24:BA:2076:U:H5'	2.04	0.56
24:BA:2194:G:H2'	24:BA:2194:G:N3	2.19	0.56
24:BA:2284:C:C5'	52:B5:9:LEU:HG	2.36	0.56
24:BA:2322:A:N3	24:BA:2322:A:H2'	2.20	0.56
24:BA:2450:A:C2'	24:BA:2451:A:H5'	2.35	0.56
24:BA:2519:U:OP1	24:BA:2519:U:H3'	2.05	0.56
24:BA:2601:C:O2	24:BA:2603:G:N7	2.38	0.56
24:BA:2690:C:HO2'	24:BA:2691:C:P	2.29	0.56
24:BA:2706:G:C2	24:BA:2707:G:C5	2.93	0.56
24:BA:270(B):A:O2'	24:BA:270(C):C:H6	1.86	0.56
24:BA:2781:A:H5'	24:BA:2781:A:H8	1.71	0.56
24:BA:2856:C:O2'	24:BA:2857:G:H5'	2.05	0.56
24:BA:2866:U:H4'	24:BA:2867:G:O5'	2.03	0.56
24:BA:2869:G:C6	24:BA:2870:C:C4	2.92	0.56
24:BA:455:C:O4'	24:BA:455:C:P	2.63	0.56
24:BA:558:G:O5'	34:BM:109:LYS:HD3	2.04	0.56
24:BA:564:C:H42	24:BA:578:A:N6	2.02	0.56
24:BA:585:G:N2	24:BA:1256:G:C6	2.74	0.56
24:BA:784:A:H62	24:BA:792:G:N2	2.01	0.56
24:BA:942:G:C5'	36:BO:32:THR:HG22	2.35	0.56
24:BA:957:A:O3'	24:BA:958:U:C4'	2.50	0.56
25:BB:116:G:C6	25:BB:117:G:C4	2.93	0.56
25:BB:9:G:C2	25:BB:10:C:C4	2.94	0.56
27:BD:198:ASN:ND2	27:BD:201:HIS:HB2	2.19	0.56
24:BA:1791:A:H4'	27:BD:206:LEU:CD2	2.34	0.56
24:BA:2227:A:N3	27:BD:262:ARG:NH1	2.53	0.56
24:BA:1813:G:C4'	27:BD:46:GLN:HB2	2.29	0.56
29:BF:8:GLN:HB3	29:BF:18:ARG:HA	1.87	0.56
30:BG:57:ALA:CA	30:BG:68:PRO:HD2	2.29	0.56
31:BH:118:PRO:CD	31:BH:121:ILE:HG21	2.35	0.56
31:BH:69:ARG:CG	31:BH:70:THR:H	2.18	0.56
31:BH:88:LEU:HD21	31:BH:90:LYS:HB3	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:BM:15:LEU:CD1	34:BM:137:LYS:HB3	2.35	0.56
34:BM:2:LYS:O	34:BM:3:THR:O	2.24	0.56
34:BM:33:LEU:HD22	34:BM:33:LEU:O	2.05	0.56
24:BA:1665:A:O3'	35:BN:1:MET:N	2.38	0.56
35:BN:8:LEU:HD22	35:BN:81:ASP:O	2.05	0.56
37:BP:119:ARG:O	37:BP:123:HIS:HB2	2.05	0.56
24:BA:958:U:O4	37:BP:19:GLY:O	2.23	0.56
38:BQ:96:ARG:NH2	38:BQ:117:VAL:HG23	2.20	0.56
39:BR:79:ALA:O	39:BR:80:LEU:C	2.44	0.56
41:BT:112:ARG:NH2	42:BU:49:THR:HG22	2.16	0.56
41:BT:52:ARG:O	41:BT:54:LYS:N	2.38	0.56
41:BT:63:VAL:O	41:BT:65:ILE:N	2.38	0.56
42:BU:18:LEU:O	42:BU:20:LEU:N	2.38	0.56
42:BU:43:GLU:C	42:BU:44:LYS:HD3	2.25	0.56
43:BV:28:SER:HA	43:BV:70:TYR:CA	2.28	0.56
43:BV:88:ARG:NE	43:BV:88:ARG:CA	2.65	0.56
44:BW:15:GLU:HG3	44:BW:16:LYS:N	2.19	0.56
44:BW:55:ASN:ND2	44:BW:55:ASN:N	2.48	0.56
45:BX:2:ARG:HD2	45:BX:3:VAL:CB	2.35	0.56
46:BY:176:PRO:HB2	46:BY:179:ASP:N	2.19	0.56
24:BA:2277:G:N7	47:BZ:14:ARG:HG3	2.21	0.56
47:BZ:43:THR:O	47:BZ:43:THR:HG22	2.05	0.56
1:AA:1000:A:C2	1:AA:1001:G:N7	2.74	0.56
1:AA:1160:G:C2	1:AA:1161:C:C6	2.93	0.56
1:AA:1187:G:H2'	1:AA:1188:A:C8	2.40	0.56
1:AA:1321:C:C5	1:AA:1322:C:H3'	2.40	0.56
1:AA:1419:G:H2'	1:AA:1420:C:C6	2.39	0.56
1:AA:256:U:O5'	1:AA:256:U:H6	1.87	0.56
1:AA:517:G:H5''	1:AA:518:C:OP1	2.06	0.56
1:AA:589:C:N4	1:AA:590:C:N4	2.53	0.56
1:AA:597:G:C2'	1:AA:598:U:H5'	2.35	0.56
1:AA:722:A:O3'	1:AA:723:U:C4	2.59	0.56
1:AA:935:A:H2'	1:AA:936:C:C6	2.41	0.56
1:AA:970:C:H4'	1:AA:972:C:C5	2.40	0.56
3:AB:9:A:N3	3:AB:45:U:O2	2.38	0.56
3:AC:70:G:C2	3:AC:71:G:C8	2.94	0.56
4:AE:19:HIS:CE1	4:AE:204:ASN:ND2	2.73	0.56
4:AE:208:ILE:HG13	4:AE:211:ILE:HD12	1.87	0.56
5:AF:151:VAL:CG1	5:AF:152:ILE:N	2.67	0.56
6:AG:105:VAL:HG21	6:AG:121:VAL:HG21	1.87	0.56
6:AG:13:ARG:CB	6:AG:40:PRO:HD3	2.35	0.56
6:AG:157:LEU:O	6:AG:158:ILE:C	2.43	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:26:CYS:O	6:AG:33:MET:SD	2.63	0.56
7:AH:122:GLU:HG2	7:AH:126:ARG:HG3	1.85	0.56
7:AH:70:PRO:CB	7:AH:143:ARG:HA	2.31	0.56
9:AJ:43:PHE:HD2	9:AJ:44:TYR:CD2	2.23	0.56
10:AK:123:GLU:O	10:AK:126:LYS:HE3	2.04	0.56
10:AK:26:VAL:HG13	10:AK:27:PRO:CD	2.35	0.56
10:AK:36:LEU:N	10:AK:36:LEU:HD23	2.10	0.56
10:AK:69:ARG:NH1	10:AK:74:PRO:O	2.38	0.56
1:AA:942:G:N2	11:AL:124:GLN:OE1	2.38	0.56
1:AA:1248:A:O2'	11:AL:36:TYR:CE1	2.57	0.56
12:AM:8:LEU:HD13	12:AM:94:VAL:CG1	2.22	0.56
15:AP:23:TYR:HE2	15:AP:70:LEU:CD2	2.16	0.56
15:AP:77:ASN:O	15:AP:80:ARG:NH1	2.38	0.56
1:AA:1309:G:OP2	15:AP:99:ARG:NH2	2.38	0.56
17:AR:60:VAL:HA	17:AR:63:ARG:CD	2.34	0.56
18:AS:58:TYR:CD1	18:AS:59:TRP:N	2.73	0.56
19:AT:43:LEU:HD11	19:AT:69:LYS:CG	2.35	0.56
19:AT:59:ILE:CD1	19:AT:72:ARG:O	2.49	0.56
21:AV:22:LEU:C	21:AV:24:ALA:H	2.07	0.56
21:AV:80:TYR:CG	21:AV:81:ARG:N	2.73	0.56
22:AW:53:LEU:O	22:AW:54:LYS:C	2.43	0.56
22:AW:57:ARG:O	22:AW:58:LYS:C	2.44	0.56
24:BA:396:G:H1'	50:B3:39:CYS:SG	2.46	0.56
24:BA:2284:C:H3'	52:B5:27:LYS:NZ	2.19	0.56
24:BA:1022:G:O2'	24:BA:1023:U:O5'	2.23	0.56
24:BA:1139:G:H8	24:BA:1139:G:O5'	1.88	0.56
24:BA:1188:U:C2'	24:BA:1188:U:O2	2.52	0.56
24:BA:1237:A:O2'	24:BA:1238:G:P	2.63	0.56
24:BA:1338:G:H21	24:BA:1393:A:H2	1.54	0.56
24:BA:1451:C:H5''	24:BA:1453:A:O2'	2.05	0.56
24:BA:1566:A:HO2'	24:BA:1567:A:P	2.27	0.56
24:BA:1591:G:H2'	24:BA:1592:C:C6	2.40	0.56
24:BA:1592:C:H2'	24:BA:1593:G:C8	2.33	0.56
24:BA:1717:G:N2	24:BA:1718:G:H1'	2.19	0.56
24:BA:1754:C:C5	40:BS:98:LYS:NZ	2.74	0.56
24:BA:1928:A:C2'	24:BA:1929:G:H5'	2.35	0.56
24:BA:1967:C:O2	24:BA:1967:C:C2'	2.53	0.56
24:BA:1992:G:H4'	24:BA:1993:U:C5	2.40	0.56
24:BA:2062:A:H2'	24:BA:2063:C:OP1	2.05	0.56
24:BA:2097:C:H2'	24:BA:2098:U:O4'	2.04	0.56
24:BA:2286:A:H4'	24:BA:2287:A:N3	2.20	0.56
24:BA:2289:G:O2'	24:BA:2383:G:H1'	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:239:U:C1'	24:BA:259:G:H22	2.17	0.56
24:BA:2438:U:O2	24:BA:2441:C:C5	2.58	0.56
24:BA:246:C:O2'	24:BA:385:C:H4'	2.05	0.56
24:BA:2716:U:C2'	24:BA:2717:G:O5'	2.53	0.56
24:BA:2715:C:O2'	24:BA:2716:U:H5'	2.05	0.56
24:BA:2747:G:N2	24:BA:2748:A:N6	2.54	0.56
24:BA:2779:U:H5''	24:BA:2780:G:H3'	1.87	0.56
24:BA:2824:C:N4	24:BA:2825:C:C2	2.73	0.56
24:BA:2691:C:O4'	24:BA:2872:G:O6	2.23	0.56
24:BA:297:C:N4	24:BA:298:G:N2	2.54	0.56
24:BA:392:C:C5'	24:BA:409:C:H5''	2.34	0.56
24:BA:76:C:O2'	24:BA:77:C:H5'	2.05	0.56
24:BA:811:U:O5'	24:BA:811:U:H6	1.86	0.56
24:BA:975:G:H2'	24:BA:975:G:N3	2.20	0.56
24:BA:988:A:C2	24:BA:989:G:N2	2.73	0.56
25:BB:68:C:H2'	25:BB:69:G:O4'	2.04	0.56
27:BD:14:ARG:C	27:BD:15:PHE:CD1	2.79	0.56
27:BD:151:LYS:O	27:BD:152:GLY:O	2.23	0.56
27:BD:148:GLU:HA	27:BD:186:HIS:HE1	1.70	0.56
24:BA:2823:A:OP2	28:BE:113:PHE:CE1	2.59	0.56
28:BE:120:TRP:C	28:BE:120:TRP:CD1	2.77	0.56
28:BE:173:VAL:HG13	28:BE:183:LEU:O	2.05	0.56
29:BF:123:LEU:HG	29:BF:191:ARG:HD3	1.86	0.56
29:BF:158:THR:CG2	29:BF:159:GLY:N	2.69	0.56
30:BG:97:ASP:O	30:BG:98:ARG:C	2.43	0.56
31:BH:6:ARG:HD3	31:BH:69:ARG:HD3	1.87	0.56
31:BH:7:LEU:N	31:BH:8:PRO:HD2	2.17	0.56
31:BH:87:LEU:HD21	31:BH:162:ILE:CG1	2.35	0.56
32:BK:7:GLU:HA	32:BK:14:ASP:OD2	2.05	0.56
34:BM:100:GLU:O	34:BM:104:LYS:HG2	2.04	0.56
34:BM:96:GLU:N	34:BM:96:GLU:OE2	2.38	0.56
35:BN:73:ASP:HB3	40:BS:79:HIS:CD2	2.39	0.56
36:BO:93:GLY:O	36:BO:102:ARG:NH2	2.39	0.56
36:BO:90:ARG:CA	36:BO:125:VAL:HG22	2.36	0.56
37:BP:115:MET:HA	37:BP:118:LEU:HD11	1.87	0.56
37:BP:54:MET:HB2	37:BP:64:ILE:HD13	1.86	0.56
37:BP:85:LYS:O	37:BP:87:LYS:N	2.38	0.56
37:BP:93:TYR:CD1	37:BP:93:TYR:N	2.73	0.56
38:BQ:17:ARG:CB	38:BQ:17:ARG:NH1	2.69	0.56
38:BQ:74:LYS:CA	38:BQ:77:ARG:HH22	2.17	0.56
39:BR:69:VAL:O	39:BR:73:LEU:CD1	2.47	0.56
40:BS:57:PHE:C	40:BS:58:ASN:ND2	2.58	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BS:76:PHE:HZ	40:BS:78:LEU:CD1	2.18	0.56
40:BS:45:PHE:HE1	40:BS:86:ILE:HG22	1.70	0.56
41:BT:26:GLY:O	41:BT:27:LEU:HB2	2.06	0.56
41:BT:81:HIS:O	41:BT:117:GLN:NE2	2.38	0.56
41:BT:61:TRP:HZ3	41:BT:94:ASN:N	2.04	0.56
42:BU:41:GLY:N	42:BU:51:VAL:HG22	2.20	0.56
43:BV:5:ALA:CB	43:BV:54:ALA:HB2	2.24	0.56
24:BA:484:C:OP1	45:BX:48:ALA:HB1	2.04	0.56
45:BX:81:LYS:HD3	45:BX:96:ILE:CG1	2.36	0.56
26:BC:161:ILE:HG22	26:BC:174:PRO:HG2	1.87	0.56
3:AD:57:G:O5'	3:AD:57:G:H8	1.88	0.56
24:BA:2168:G:N3	24:BA:2170:A:C8	2.74	0.56
24:BA:2171:A:O2'	24:BA:2172:U:O5'	2.22	0.56
26:BC:8:ARG:HH11	26:BC:11:LEU:CD2	2.16	0.56
1:AA:337:C:N4	1:AA:338:A:N6	2.54	0.56
24:BA:1417:C:O3'	24:BA:1588:C:H1'	2.05	0.56
3:AD:40:C:H2'	3:AD:40:C:O2	2.04	0.56
3:AD:44:G:C2'	3:AD:45:U:H5'	2.36	0.56
1:AA:511:C:O2'	1:AA:512:U:O4'	2.23	0.56
1:AA:772:U:C2	1:AA:773:G:C8	2.94	0.56
31:BH:20:ALA:HB1	31:BH:21:PRO:HD3	1.87	0.56
2:A1:39:U:H5''	2:A1:40:U:H5'	1.86	0.56
1:AA:1002:G:C6	1:AA:1003:G:O6	2.59	0.56
1:AA:1054:C:H2'	1:AA:1055:A:C5'	2.30	0.56
1:AA:1315:U:H6	1:AA:1315:U:O5'	1.87	0.56
1:AA:1499:A:C5	1:AA:1500:A:N7	2.74	0.56
1:AA:1526:G:H2'	1:AA:1527:C:C6	2.41	0.56
1:AA:19:C:N3	1:AA:20:U:C5	2.73	0.56
1:AA:241:C:H2'	1:AA:242:C:O5'	2.04	0.56
1:AA:261:U:C2'	1:AA:263:A:OP2	2.52	0.56
1:AA:541:G:O4'	6:AG:42:GLN:NE2	2.36	0.56
1:AA:782:A:N6	1:AA:801:U:C6	2.74	0.56
1:AA:22:G:H4'	1:AA:885:G:C8	2.41	0.56
1:AA:922:G:N3	1:AA:1398:A:H2	2.02	0.56
3:AB:36:A:N6	3:AB:37:A:N6	2.53	0.56
3:AC:65:G:H2'	3:AC:66:U:C6	2.40	0.56
4:AE:97:TRP:HE1	4:AE:101:MET:CE	2.18	0.56
4:AE:52:GLU:OE1	4:AE:53:ARG:HB2	2.06	0.56
4:AE:56:ARG:HD2	4:AE:56:ARG:C	2.26	0.56
5:AF:33:LEU:HD23	5:AF:36:ASP:OD1	2.05	0.56
5:AF:34:LEU:O	5:AF:38:ARG:HD3	2.06	0.56
5:AF:46:GLU:C	5:AF:47:LEU:HD22	2.26	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:100:ARG:CZ	6:AG:137:SER:HA	2.34	0.56
6:AG:121:VAL:HB	6:AG:136:PRO:CG	2.18	0.56
6:AG:4:TYR:CG	6:AG:5:ILE:N	2.74	0.56
6:AG:58:LEU:O	6:AG:58:LEU:HD22	2.06	0.56
6:AG:78:LEU:O	6:AG:81:GLU:N	2.39	0.56
7:AH:72:GLN:NE2	7:AH:145:LYS:H	2.02	0.56
8:AI:75:LEU:O	8:AI:78:GLU:N	2.38	0.56
9:AJ:109:ASN:O	9:AJ:119:ARG:NE	2.38	0.56
9:AJ:50:ILE:HB	9:AJ:51:GLN:OE1	2.06	0.56
12:AM:27:ALA:CB	12:AM:85:LEU:HD21	2.35	0.56
17:AR:16:ALA:O	17:AR:17:ARG:C	2.44	0.56
17:AR:62:GLN:CD	17:AR:65:ARG:NH2	2.59	0.56
1:AA:376:G:OP1	18:AS:5:ARG:HB2	2.05	0.56
20:AU:40:LEU:N	20:AU:40:LEU:HD23	2.20	0.56
22:AW:89:ARG:HH21	22:AW:104:LEU:HD22	1.70	0.56
22:AW:63:ILE:HG22	22:AW:64:ASP:N	2.21	0.56
22:AW:79:ARG:O	22:AW:80:ARG:C	2.42	0.56
36:BO:45:LEU:CD1	54:B7:59:LYS:HZ1	2.16	0.56
24:BA:1174:A:H2'	24:BA:1175:U:C5'	2.20	0.56
24:BA:124:G:N1	53:B6:19:ARG:NH2	2.53	0.56
24:BA:1303:G:N7	24:BA:1304:C:C4	2.73	0.56
24:BA:1324:G:O2'	24:BA:1325:G:OP1	2.22	0.56
24:BA:1341:U:H2'	24:BA:1342:A:OP1	2.04	0.56
24:BA:1360:A:N6	24:BA:1371:G:H1'	2.20	0.56
24:BA:1520:U:C6	24:BA:1520:U:OP2	2.58	0.56
24:BA:1614:A:N3	24:BA:1614:A:C3'	2.65	0.56
24:BA:1655:A:H3'	24:BA:1656:C:H6	1.70	0.56
24:BA:1699:G:H2'	24:BA:1763:G:H22	1.69	0.56
24:BA:1799:G:C2'	24:BA:1800:C:O5'	2.54	0.56
24:BA:1810:A:C2'	24:BA:1811:G:H5'	2.32	0.56
24:BA:1861:G:H4'	26:BC:205:LYS:HZ1	1.69	0.56
24:BA:1926:U:H3	24:BA:1929:G:N2	2.03	0.56
24:BA:1999:C:N3	24:BA:2000:G:C8	2.73	0.56
24:BA:203:C:H3'	24:BA:204:A:C8	2.36	0.56
24:BA:2208:U:C2'	24:BA:2209:C:H5'	2.35	0.56
24:BA:223:A:O2'	24:BA:420:C:H1'	2.06	0.56
24:BA:2259:G:N2	24:BA:2282:G:C5	2.74	0.56
24:BA:2278:A:N7	47:BZ:14:ARG:CB	2.68	0.56
24:BA:2283:C:N3	24:BA:2389:G:N2	2.53	0.56
24:BA:2352:A:C2	47:BZ:34:GLY:HA3	2.40	0.56
24:BA:2472:G:O5'	24:BA:2472:G:C8	2.57	0.56
24:BA:2487:G:H2'	24:BA:2488:A:H8	1.70	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2759:G:C6	24:BA:2760:C:C5	2.93	0.56
24:BA:2850:A:C2	38:BQ:61:HIS:CE1	2.93	0.56
24:BA:2853:C:H2'	24:BA:2854:G:C8	2.39	0.56
24:BA:2885:C:N3	24:BA:2886:G:H1'	2.20	0.56
24:BA:296:C:H6	24:BA:338:G:N2	2.03	0.56
24:BA:449:A:C2'	24:BA:450:G:O4'	2.53	0.56
24:BA:535:C:O2'	41:BT:53:ARG:HG2	2.06	0.56
24:BA:636:G:O6	36:BO:111:ARG:NH1	2.24	0.56
24:BA:673:C:C2'	24:BA:674:G:C5'	2.80	0.56
24:BA:808:G:H2'	24:BA:809:G:H8	1.70	0.56
24:BA:955:C:P	37:BP:17:LEU:HD23	2.45	0.56
25:BB:51:G:OP1	39:BR:60:GLY:C	2.43	0.56
27:BD:90:ALA:O	27:BD:91:ARG:O	2.23	0.56
29:BF:31:HIS:CB	36:BO:11:GLY:H	2.18	0.56
30:BG:119:GLY:HA3	30:BG:180:PHE:CG	2.40	0.56
31:BH:107:VAL:HG13	31:BH:152:ARG:CD	2.35	0.56
31:BH:121:ILE:HG13	31:BH:133:VAL:CG2	2.33	0.56
33:BL:18:THR:HA	33:BL:38:VAL:CG2	2.27	0.56
34:BM:95:PRO:HG2	34:BM:96:GLU:H	1.69	0.56
34:BM:99:LEU:HG	34:BM:100:GLU:H	1.70	0.56
35:BN:106:LEU:HA	35:BN:111:PHE:HE1	1.71	0.56
35:BN:7:TYR:CB	35:BN:18:LYS:CE	2.83	0.56
35:BN:31:LYS:C	35:BN:32:TYR:CG	2.78	0.56
35:BN:89:ASN:HD22	35:BN:91:LEU:CB	2.19	0.56
36:BO:16:ARG:C	36:BO:16:ARG:HD2	2.24	0.56
24:BA:943:U:P	36:BO:32:THR:HB	2.45	0.56
36:BO:7:ARG:HD3	36:BO:8:PRO:HD3	1.88	0.56
37:BP:36:ALA:HA	37:BP:129:THR:CG2	2.35	0.56
37:BP:134:ARG:NE	37:BP:137:TYR:CA	2.64	0.56
38:BQ:73:VAL:HB	38:BQ:77:ARG:NH2	2.19	0.56
38:BQ:83:ILE:O	38:BQ:86:ARG:N	2.38	0.56
38:BQ:86:ARG:NH1	38:BQ:87:TYR:HE2	2.03	0.56
39:BR:95:HIS:CG	39:BR:96:GLY:N	2.73	0.56
40:BS:17:THR:HG21	40:BS:20:PRO:HG3	1.88	0.56
40:BS:22:PHE:O	40:BS:24:PRO:HD3	2.04	0.56
42:BU:28:GLU:N	42:BU:29:PRO:CD	2.67	0.56
43:BV:7:ALA:O	43:BV:102:HIS:HA	2.05	0.56
44:BW:26:TYR:HB2	44:BW:28:PHE:HZ	1.70	0.56
44:BW:52:VAL:O	44:BW:82:GLN:HB3	2.06	0.56
45:BX:1:MET:HG2	45:BX:33:LYS:CD	2.36	0.56
45:BX:88:LYS:HG2	45:BX:89:PHE:N	2.21	0.56
46:BY:40:ASP:O	46:BY:44:PHE:CD1	2.59	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:78:LYS:CG	46:BY:79:ARG:H	2.13	0.56
32:BK:66:GLU:HB3	32:BK:69:LYS:HZ3	1.70	0.56
3:AD:8:U:C5	3:AD:13:C:N4	2.73	0.56
26:BC:181:PRO:O	26:BC:185:LEU:HG	2.04	0.56
26:BC:33:ALA:CB	26:BC:39:GLU:OE1	2.54	0.56
24:BA:1418:G:OP2	24:BA:1418:G:H8	1.89	0.56
24:BA:2:G:C2	24:BA:3:U:C2	2.94	0.56
38:BQ:60:LEU:CD2	38:BQ:60:LEU:H	2.19	0.56
6:AG:151:LYS:HD2	6:AG:151:LYS:H	1.71	0.56
1:AA:1537:U:C2	1:AA:1538:C:C6	2.94	0.56
14:AO:16:GLU:O	14:AO:17:LYS:HB3	2.04	0.56
2:A1:52:U:H4'	6:AG:50:ARG:CB	2.34	0.56
1:AA:1002:G:N2	1:AA:1039:C:C4	2.74	0.56
1:AA:1132:C:H2'	1:AA:1133:G:H8	1.70	0.56
1:AA:1241:G:O2'	1:AA:1242:C:H5'	2.06	0.56
1:AA:1313:U:C4	21:AV:4:SER:HB2	2.39	0.56
1:AA:1396:A:C2'	1:AA:1397:C:OP2	2.52	0.56
1:AA:1481:U:H2'	1:AA:1482:G:N7	2.21	0.56
1:AA:225:C:H2'	1:AA:226:G:O5'	2.04	0.56
1:AA:41:G:C4	1:AA:42:G:C8	2.94	0.56
1:AA:484:G:O4'	1:AA:486:U:C6	2.58	0.56
1:AA:501:C:H2'	1:AA:502:G:C8	2.41	0.56
1:AA:607:A:C5	1:AA:608:A:C8	2.93	0.56
1:AA:5:U:O2'	1:AA:6:G:OP2	2.22	0.56
1:AA:748:C:H6	1:AA:748:C:H3'	1.67	0.56
1:AA:758:G:C2'	1:AA:759:A:OP2	2.54	0.56
1:AA:570:G:O2'	1:AA:819:A:H8	1.85	0.56
3:AB:8:U:H5'	3:AB:9:A:OP1	2.06	0.56
4:AE:150:SER:O	4:AE:151:GLY:C	2.44	0.56
5:AF:200:ALA:C	5:AF:201:TYR:CD1	2.79	0.56
5:AF:24:ALA:HB2	5:AF:32:LEU:CD1	2.35	0.56
6:AG:120:LEU:HG	6:AG:121:VAL:N	2.21	0.56
6:AG:166:LYS:HA	6:AG:178:VAL:HG11	1.86	0.56
8:AI:42:GLU:HG3	8:AI:44:GLY:H	1.70	0.56
8:AI:57:GLN:OE1	8:AI:57:GLN:N	2.37	0.56
9:AJ:64:GLN:O	9:AJ:68:ASN:ND2	2.38	0.56
10:AK:45:ILE:O	10:AK:45:ILE:HG12	2.06	0.56
10:AK:46:LYS:HE3	10:AK:64:LYS:CG	2.27	0.56
11:AL:97:LYS:NZ	11:AL:102:LEU:HD22	2.21	0.56
11:AL:37:PHE:CE1	11:AL:74:ILE:HG12	2.41	0.56
11:AL:58:HIS:HD2	11:AL:59:PHE:CE1	2.23	0.56
1:AA:718:G:C4'	13:AN:117:ASN:HD21	2.17	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AO:97:ARG:C	14:AO:98:TYR:CD1	2.79	0.56
14:AO:68:ALA:CB	14:AO:98:TYR:O	2.54	0.56
15:AP:20:THR:HG23	15:AP:26:GLY:HA2	1.87	0.56
15:AP:2:ALA:O	15:AP:4:ILE:HD12	2.04	0.56
16:AQ:41:ARG:HA	16:AQ:44:LEU:CD2	2.35	0.56
5:AF:6:HIS:HB3	16:AQ:49:HIS:ND1	2.20	0.56
17:AR:81:LEU:HD23	17:AR:81:LEU:C	2.25	0.56
18:AS:39:TYR:CE1	18:AS:41:PRO:HG3	2.40	0.56
1:AA:474:G:O5'	18:AS:81:ARG:HA	2.06	0.56
20:AU:79:LEU:N	20:AU:79:LEU:HD12	2.20	0.56
50:B3:13:ARG:O	50:B3:14:ILE:CG1	2.50	0.56
24:BA:1020:A:O2'	24:BA:1021:A:C8	2.58	0.56
24:BA:1060:U:H5''	24:BA:1061:U:N3	2.19	0.56
24:BA:1264:G:H3'	24:BA:1264:G:H8	1.71	0.56
24:BA:1355:G:N2	24:BA:1377:G:N3	2.54	0.56
24:BA:1528:A:H5'	24:BA:1529:A:OP2	2.06	0.56
24:BA:1635:G:C2'	24:BA:1636:C:H5'	2.36	0.56
24:BA:1299:G:C6	24:BA:1639:U:H5''	2.41	0.56
24:BA:1699:G:O2'	24:BA:1700:A:P	2.63	0.56
24:BA:1729:A:H3'	24:BA:1730:U:C6	2.40	0.56
24:BA:764:A:C6	24:BA:1789:A:H2	2.24	0.56
1:AA:1517:G:C8	24:BA:1920:C:OP1	2.57	0.56
24:BA:2226:C:O2	27:BD:262:ARG:CZ	2.54	0.56
24:BA:2373:G:C6	24:BA:2374:C:N4	2.73	0.56
24:BA:2587:A:HO2'	24:BA:2588:G:H5'	1.70	0.56
24:BA:239:U:C1'	24:BA:259:G:N2	2.67	0.56
24:BA:26:G:N2	24:BA:27:G:N2	2.53	0.56
24:BA:2840:C:O2'	24:BA:2841:C:H5'	2.05	0.56
24:BA:331:A:C2	24:BA:1209:G:C6	2.93	0.56
24:BA:354:G:H3'	24:BA:354:G:OP2	2.05	0.56
24:BA:608:A:H61	24:BA:619:G:H2'	1.70	0.56
24:BA:643:A:H4'	24:BA:644:A:C5'	2.35	0.56
24:BA:71:A:N6	24:BA:114:U:H1'	2.19	0.56
24:BA:72:U:C4	24:BA:112:U:H1'	2.40	0.56
24:BA:948:G:C6	24:BA:970:C:C2	2.94	0.56
24:BA:972:G:C6	24:BA:973:A:N7	2.74	0.56
25:BB:4:C:N3	25:BB:117:G:C2	2.74	0.56
25:BB:11:C:H3'	47:BZ:74:ARG:NH2	2.20	0.56
25:BB:90:C:O2'	25:BB:91:C:C5'	2.54	0.56
25:BB:9:G:N2	25:BB:10:C:C2	2.73	0.56
27:BD:169:GLU:CG	27:BD:184:LYS:NZ	2.68	0.56
24:BA:1790:C:O2'	27:BD:213:ARG:CZ	2.54	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:226:MET:O	27:BD:228:PRO:N	2.38	0.56
27:BD:78:LYS:O	27:BD:95:LEU:HD22	2.06	0.56
24:BA:2823:A:P	28:BE:113:PHE:CZ	2.99	0.56
28:BE:201:THR:O	28:BE:202:LYS:HD3	2.05	0.56
31:BH:137:ASP:HB3	31:BH:140:LYS:HE2	1.86	0.56
31:BH:9:ILE:HG13	31:BH:69:ARG:HH12	1.70	0.56
31:BH:69:ARG:CG	31:BH:70:THR:N	2.68	0.56
31:BH:7:LEU:CA	31:BH:52:VAL:HG13	2.35	0.56
32:BK:7:GLU:OE1	32:BK:35:LEU:HA	2.05	0.56
33:BL:10:LEU:HD23	33:BL:10:LEU:H	1.71	0.56
34:BM:4:TYR:CE2	41:BT:100:VAL:HB	2.41	0.56
34:BM:56:ASN:HB3	34:BM:59:LYS:HD2	1.87	0.56
34:BM:65:LYS:O	34:BM:66:LYS:O	2.22	0.56
35:BN:42:SER:HA	35:BN:55:GLY:O	2.04	0.56
35:BN:65:THR:HA	35:BN:77:ILE:HG13	1.87	0.56
35:BN:8:LEU:O	35:BN:18:LYS:HG3	2.04	0.56
37:BP:116:GLU:CA	37:BP:119:ARG:HG3	2.35	0.56
37:BP:42:ILE:CG1	37:BP:46:GLN:NE2	2.67	0.56
24:BA:955:C:H5'	37:BP:87:LYS:CE	2.36	0.56
38:BQ:65:LEU:O	38:BQ:68:ARG:N	2.38	0.56
39:BR:96:GLY:O	39:BR:99:LYS:N	2.38	0.56
40:BS:7:ILE:CG1	40:BS:8:LYS:H	2.16	0.56
41:BT:30:LYS:O	41:BT:32:PHE:N	2.33	0.56
41:BT:80:ILE:HA	41:BT:83:LEU:HD13	1.87	0.56
41:BT:88:ILE:CD1	41:BT:88:ILE:H	2.12	0.56
43:BV:7:ALA:N	43:BV:103:ILE:HD13	2.21	0.56
43:BV:33:ARG:CD	43:BV:37:ARG:HD3	2.35	0.56
44:BW:31:HIS:NE2	44:BW:33:LYS:HB3	2.20	0.56
46:BY:110:GLY:HA2	46:BY:144:LEU:O	2.06	0.56
46:BY:6:LYS:CA	46:BY:37:VAL:HG13	2.36	0.56
46:BY:77:ASP:H	46:BY:83:PRO:HA	1.70	0.56
24:BA:2602:A:C2	47:BZ:1:MET:HA	2.40	0.56
24:BA:2139:C:H2'	24:BA:2140:C:H6	1.70	0.56
26:BC:10:LEU:CG	26:BC:220:PRO:HG3	2.35	0.56
26:BC:56:GLN:HA	26:BC:201:PRO:CB	2.36	0.56
24:BA:492:A:H8	24:BA:492:A:OP2	1.86	0.56
24:BA:2180:U:H2'	24:BA:2181:G:H8	1.70	0.56
1:AA:1117:G:OP1	11:AL:104:ARG:NH1	2.38	0.56
1:AA:1157:A:H4'	1:AA:1158:C:C2	2.41	0.56
1:AA:186(C):G:O2'	1:AA:186(D):C:H5'	2.05	0.56
1:AA:237:C:H2'	1:AA:238:G:H8	1.71	0.56
1:AA:308:C:C2'	1:AA:309:G:O5'	2.53	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:46:G:H1'	1:AA:396:G:N2	2.21	0.56
1:AA:595:G:H8	1:AA:641:U:C4	2.19	0.56
1:AA:809:G:O2'	1:AA:810:C:H5'	2.05	0.56
1:AA:977:A:H4'	1:AA:982:U:O4	2.06	0.56
3:AC:19:G:H5''	3:AC:20:U:C4	2.40	0.56
3:AC:4:C:O2'	3:AC:5:G:H5'	2.05	0.56
4:AE:157:ARG:O	4:AE:158:LEU:HG	2.05	0.56
4:AE:171:ALA:CA	4:AE:174:VAL:HB	2.36	0.56
4:AE:16:HIS:NE2	4:AE:213:LEU:HB3	2.21	0.56
4:AE:23:ARG:HH11	4:AE:24:TRP:H	1.49	0.56
5:AF:40:ARG:HA	5:AF:43:LEU:CD1	2.33	0.56
6:AG:135:LEU:C	6:AG:137:SER:N	2.55	0.56
6:AG:15:GLU:HB3	6:AG:19:LEU:HD11	1.88	0.56
6:AG:195:ALA:O	6:AG:196:LEU:C	2.44	0.56
7:AH:33:VAL:CG2	7:AH:43:LEU:HD12	2.32	0.56
8:AI:37:VAL:HA	8:AI:65:VAL:HB	1.88	0.56
8:AI:53:ALA:CB	8:AI:86:ARG:HH11	2.18	0.56
9:AJ:110:GLN:O	9:AJ:111:ARG:O	2.24	0.56
9:AJ:57:GLU:O	9:AJ:61:VAL:HG23	2.06	0.56
10:AK:6:ILE:O	10:AK:7:ALA:C	2.42	0.56
11:AL:111:ARG:HG2	11:AL:112:LYS:O	2.05	0.56
12:AM:32:ALA:O	12:AM:33:GLN:HB2	2.05	0.56
13:AN:23:ALA:CB	13:AN:28:THR:HG23	2.35	0.56
14:AO:23:LYS:O	14:AO:24:VAL:HG23	2.05	0.56
14:AO:97:ARG:HB3	14:AO:98:TYR:CD1	2.41	0.56
15:AP:48:LEU:HD22	15:AP:53:VAL:CG2	2.31	0.56
1:AA:564:C:N3	19:AT:31:LEU:HD11	2.20	0.56
19:AT:3:LYS:HE3	19:AT:62:SER:O	2.06	0.56
19:AT:51:TYR:O	19:AT:52:LYS:HG3	2.06	0.56
19:AT:53:LEU:O	19:AT:82:MET:SD	2.63	0.56
20:AU:30:ASP:OD2	20:AU:32:ARG:HB2	2.06	0.56
20:AU:51:LEU:N	20:AU:51:LEU:HD12	2.21	0.56
22:AW:50:GLU:OE1	22:AW:100:ILE:HG12	2.05	0.56
49:B2:45:GLY:HA2	49:B2:48:GLU:OE1	2.05	0.56
50:B3:44:THR:CG2	50:B3:45:GLY:N	2.69	0.56
52:B5:25:LYS:O	52:B5:26:ASN:HB2	2.04	0.56
54:B7:16:ILE:CG2	54:B7:21:LYS:O	2.54	0.56
54:B7:7:HIS:O	54:B7:8:LYS:C	2.43	0.56
24:BA:1024:G:C2	24:BA:1139:G:N2	2.74	0.56
24:BA:1189:A:OP1	36:BO:29:LYS:HE3	2.05	0.56
24:BA:1257:C:C4	24:BA:1258:C:N4	2.74	0.56
24:BA:1256:G:C4	24:BA:1257:C:C5	2.94	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1397:U:O2'	24:BA:1398:C:OP1	2.21	0.56
24:BA:140:A:H2	24:BA:1408:C:O2	1.88	0.56
24:BA:1592:C:O2'	24:BA:1593:G:C5'	2.53	0.56
24:BA:1819:A:OP2	27:BD:157:ARG:NE	2.39	0.56
24:BA:1838:C:H2'	24:BA:1898:U:C5	2.40	0.56
24:BA:1794:U:H5'	24:BA:1900:A:N6	2.21	0.56
24:BA:1937:A:O2'	24:BA:1938:A:OP1	2.23	0.56
24:BA:1947:C:N3	24:BA:1948:G:C8	2.74	0.56
24:BA:1964:G:N1	24:BA:1967:C:C5	2.73	0.56
24:BA:1669:A:N6	24:BA:1994:C:C2	2.73	0.56
24:BA:1993:U:N1	24:BA:1994:C:H5	2.04	0.56
24:BA:1996:C:H2'	24:BA:1997:G:O5'	2.06	0.56
24:BA:2052:G:C5	24:BA:2053:G:N7	2.74	0.56
24:BA:2075:U:O2	24:BA:2075:U:C2'	2.53	0.56
24:BA:2083:G:C4	24:BA:2084:C:C5	2.93	0.56
24:BA:221:A:C8	24:BA:221:A:C3'	2.89	0.56
24:BA:221:A:C4'	24:BA:222:A:H5'	2.10	0.56
24:BA:2345:G:C5	24:BA:2371:G:N2	2.73	0.56
24:BA:2383:G:N2	24:BA:2384:G:N3	2.53	0.56
24:BA:2385:C:N3	24:BA:2386:C:C5	2.74	0.56
24:BA:2559:C:O2'	24:BA:2560:C:C5'	2.53	0.56
24:BA:2576:G:OP2	24:BA:2576:G:N2	2.39	0.56
24:BA:2636:U:O3'	28:BE:79:ARG:NH2	2.38	0.56
24:BA:270(K):C:H5''	24:BA:270(L):U:C6	2.41	0.56
24:BA:281:G:C8	24:BA:281:G:OP1	2.59	0.56
24:BA:2827:C:O2'	24:BA:2828:C:H5'	2.05	0.56
24:BA:1455:G:H1'	24:BA:2853:C:OP1	2.06	0.56
24:BA:285:C:H2'	24:BA:286:C:C6	2.39	0.56
24:BA:270:A:N6	24:BA:370:G:C8	2.73	0.56
24:BA:643:A:O2'	24:BA:644:A:OP2	2.21	0.56
24:BA:650:C:OP1	54:B7:19:SER:OG	2.21	0.56
24:BA:772:C:H2'	24:BA:773:U:H6	1.71	0.56
24:BA:803:U:O2'	24:BA:804:A:H5'	2.05	0.56
25:BB:109:G:N1	25:BB:110:G:C5	2.74	0.56
25:BB:77:U:O3'	46:BY:78:LYS:CE	2.47	0.56
27:BD:132:PRO:HA	27:BD:189:CYS:O	2.06	0.56
27:BD:17:THR:O	27:BD:17:THR:HG22	2.05	0.56
28:BE:47:VAL:HA	28:BE:48:GLN:NE2	2.21	0.56
28:BE:94:GLU:O	28:BE:96:PHE:N	2.39	0.56
29:BF:31:HIS:HB2	36:BO:14:LYS:NZ	2.10	0.56
29:BF:52:LYS:O	29:BF:53:THR:CG2	2.53	0.56
30:BG:86:MET:H	30:BG:87:PRO:HD3	1.71	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BK:3:VAL:O	32:BK:18:VAL:HG13	2.05	0.56
33:BL:32:ALA:HA	33:BL:37:PHE:HE1	1.70	0.56
34:BM:69:GLN:C	34:BM:70:LYS:HD3	2.26	0.56
34:BM:74:ARG:NE	34:BM:82:LEU:HD11	2.20	0.56
35:BN:3:GLN:OE1	35:BN:6:THR:HG21	2.05	0.56
35:BN:76:ALA:HB1	35:BN:78:ARG:HH22	1.70	0.56
37:BP:6:ARG:O	37:BP:7:MET:HG2	2.05	0.56
37:BP:98:LYS:CE	37:BP:98:LYS:N	2.68	0.56
38:BQ:34:ILE:HG22	38:BQ:35:THR:N	2.20	0.56
38:BQ:61:HIS:HA	38:BQ:64:ARG:CD	2.35	0.56
38:BQ:67:LEU:O	38:BQ:68:ARG:C	2.43	0.56
39:BR:26:LEU:H	39:BR:88:ASP:HB2	1.71	0.56
41:BT:13:LYS:CD	41:BT:13:LYS:H	2.08	0.56
41:BT:57:PHE:O	41:BT:58:ARG:C	2.43	0.56
42:BU:5:VAL:HG11	42:BU:37:VAL:HG22	1.87	0.56
43:BV:14:PRO:CD	43:BV:99:ARG:HG3	2.35	0.56
43:BV:34:ASN:ND2	43:BV:37:ARG:NH1	2.53	0.56
43:BV:88:ARG:HE	43:BV:88:ARG:HA	1.70	0.56
45:BX:26:LYS:HB2	45:BX:38:ILE:CD1	2.32	0.56
45:BX:47:LYS:CE	45:BX:49:VAL:HG11	2.35	0.56
46:BY:100:VAL:HG12	46:BY:133:ILE:HB	1.86	0.56
46:BY:102:LEU:HD21	46:BY:125:LEU:HD12	1.87	0.56
46:BY:60:GLU:OE2	46:BY:67:LEU:O	2.24	0.56
24:BA:2353:G:H1'	47:BZ:34:GLY:HA3	1.88	0.56
3:AD:56:C:H2'	3:AD:57:G:O4'	2.04	0.56
26:BC:127:LEU:HB3	26:BC:131:LEU:CD1	2.36	0.56
26:BC:124:GLY:HA2	26:BC:137:LEU:HD21	1.86	0.56
26:BC:89:ALA:CA	26:BC:154:ARG:HG3	2.32	0.56
1:AA:164:U:H2'	1:AA:165:C:C6	2.39	0.56
24:BA:1483:G:H1'	24:BA:1507:A:H2	1.66	0.56
33:BL:95:LYS:HZ2	46:BY:112:ARG:HD2	1.70	0.56
39:BR:56:LEU:CD1	39:BR:59:LYS:HD2	2.36	0.56
3:AC:44:G:O2'	3:AC:45:U:H5'	2.06	0.56
15:AP:120:LYS:O	15:AP:121:LYS:CB	2.54	0.56
1:AA:962:C:O2'	1:AA:1200:C:C5	2.57	0.56
1:AA:1443:G:O5'	1:AA:1446:A:OP1	2.23	0.56
1:AA:295:C:O2	1:AA:296:U:O4'	2.24	0.56
1:AA:392:G:H5'	18:AS:12:LYS:HZ3	1.70	0.56
1:AA:581:G:O3'	17:AR:64:ARG:NH2	2.38	0.56
1:AA:872:A:C5	1:AA:874:G:N7	2.73	0.56
3:AC:31:A:OP1	11:AL:127:LYS:HE3	2.04	0.56
4:AE:134:GLU:HB3	4:AE:135:GLN:NE2	2.21	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:139:LYS:CG	4:AE:140:HIS:N	2.64	0.56
5:AF:139:GLN:O	5:AF:143:GLU:HG3	2.05	0.56
6:AG:11:LEU:HA	6:AG:14:ARG:CB	2.32	0.56
6:AG:58:LEU:HD22	6:AG:62:GLN:HG2	1.88	0.56
7:AH:109:ILE:HD11	7:AH:139:LEU:CD1	2.35	0.56
7:AH:79:GLU:HA	7:AH:91:LEU:CD2	2.35	0.56
9:AJ:116:ALA:O	9:AJ:120:ILE:HG13	2.05	0.56
9:AJ:47:CYS:SG	9:AJ:50:ILE:HD12	2.46	0.56
10:AK:102:ARG:HD3	10:AK:105:ARG:NH1	2.21	0.56
10:AK:28:ALA:O	10:AK:29:SER:OG	2.20	0.56
11:AL:32:ASP:CG	11:AL:33:PHE:N	2.58	0.56
11:AL:38:GLN:C	11:AL:40:LEU:H	2.09	0.56
11:AL:15:ALA:HB3	11:AL:77:ILE:N	2.19	0.56
11:AL:17:VAL:HG21	11:AL:77:ILE:O	2.05	0.56
14:AO:27:LEU:CD2	14:AO:33:ARG:HH11	2.19	0.56
14:AO:85:ILE:HG13	14:AO:99:HIS:O	2.05	0.56
15:AP:40:ASN:C	15:AP:42:ALA:H	2.09	0.56
16:AQ:10:ALA:O	16:AQ:12:ARG:HG2	2.05	0.56
1:AA:254:G:OP1	19:AT:67:LYS:O	2.23	0.56
20:AU:58:LEU:HB2	20:AU:63:GLN:OE1	2.04	0.56
22:AW:86:ARG:HG2	22:AW:87:LYS:N	2.21	0.56
52:B5:20:ASN:CG	52:B5:43:CYS:SG	2.84	0.56
24:BA:1188:U:H2'	24:BA:1189:A:H5'	1.88	0.56
24:BA:1263:U:H5''	51:B4:10:LYS:HZ2	1.69	0.56
24:BA:1374:G:C6	24:BA:1375:C:C4	2.94	0.56
24:BA:740:U:O4'	24:BA:1784:A:C5	2.58	0.56
24:BA:1790:C:O2	24:BA:1790:C:H2'	2.05	0.56
24:BA:1930:G:HO2'	24:BA:1931:U:P	2.28	0.56
24:BA:2018:G:H1'	41:BT:34:LYS:HZ1	1.68	0.56
24:BA:572:A:C2	24:BA:2033:A:C2	2.92	0.56
24:BA:2327:A:O2'	24:BA:2328:A:O4'	2.18	0.56
24:BA:2387:U:C1'	47:BZ:41:ARG:CZ	2.83	0.56
24:BA:2412:A:H2'	24:BA:2413:G:O4'	2.06	0.56
24:BA:2447:G:C4	24:BA:2500:U:C5	2.94	0.56
24:BA:2460:U:H3'	24:BA:2461:C:C5	2.41	0.56
24:BA:2500:U:H4'	24:BA:2501:C:OP2	2.02	0.56
24:BA:2615:U:H2'	24:BA:2616:C:C6	2.39	0.56
24:BA:2694:G:O6	24:BA:2695:C:N4	2.38	0.56
24:BA:2718:G:C4	24:BA:2719:G:C8	2.94	0.56
24:BA:2764:A:C4'	24:BA:2764:A:OP1	2.48	0.56
24:BA:308:G:N1	24:BA:309:G:N3	2.53	0.56
24:BA:543:C:H2'	24:BA:544:C:H5	1.70	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:547:A:N6	24:BA:548:A:C6	2.74	0.56
24:BA:786:C:H5''	24:BA:1780:A:C8	2.41	0.56
24:BA:947:G:O5'	24:BA:947:G:C8	2.54	0.56
24:BA:948:G:O4'	24:BA:984:A:C2	2.58	0.56
24:BA:950:G:C4	24:BA:951:C:C5	2.94	0.56
24:BA:972:G:C5	24:BA:973:A:C8	2.94	0.56
25:BB:80:U:O2'	25:BB:81:G:H8	1.89	0.56
25:BB:80:U:C2'	25:BB:81:G:H8	2.19	0.56
27:BD:78:LYS:HE2	27:BD:114:GLY:O	2.06	0.56
27:BD:214:TRP:O	27:BD:215:LEU:C	2.42	0.56
27:BD:8:PRO:HD2	27:BD:26:LYS:H	1.71	0.56
28:BE:165:VAL:HG12	28:BE:166:THR:N	2.17	0.56
29:BF:109:GLY:C	29:BF:111:ALA:N	2.57	0.56
29:BF:122:LYS:HZ1	29:BF:192:LEU:HB3	1.70	0.56
30:BG:135:LEU:HD13	30:BG:135:LEU:C	2.26	0.56
30:BG:162:THR:HG22	30:BG:162:THR:O	2.06	0.56
32:BK:24:GLY:O	32:BK:27:ARG:HB3	2.06	0.56
34:BM:34:LEU:HB3	34:BM:116:LEU:CD2	2.36	0.56
34:BM:34:LEU:HD21	34:BM:120:LEU:HD13	1.87	0.56
35:BN:94:ARG:CG	35:BN:96:THR:N	2.67	0.56
36:BO:114:ILE:HD11	36:BO:123:LEU:HG	1.86	0.56
36:BO:15:ARG:O	36:BO:16:ARG:C	2.43	0.56
36:BO:8:PRO:O	36:BO:9:ASN:C	2.44	0.56
37:BP:36:ALA:HB1	37:BP:39:PRO:HG2	1.87	0.56
37:BP:44:ALA:C	37:BP:48:GLU:OE2	2.44	0.56
39:BR:57:LYS:HZ3	39:BR:62:LYS:CG	2.18	0.56
42:BU:35:LEU:O	42:BU:61:VAL:CA	2.53	0.56
43:BV:6:ILE:CG2	43:BV:7:ALA:N	2.68	0.56
44:BW:65:ARG:HA	44:BW:70:LEU:CD1	2.36	0.56
45:BX:29:GLU:OE1	45:BX:34:LYS:HB2	2.05	0.56
46:BY:29:TYR:CD2	46:BY:72:ARG:NH1	2.74	0.56
47:BZ:57:PHE:N	47:BZ:57:PHE:CD1	2.73	0.56
26:BC:122:ALA:HB1	26:BC:126:LYS:CD	2.27	0.56
26:BC:10:LEU:HD13	26:BC:13:LYS:HD2	1.86	0.56
24:BA:1113:U:O5'	24:BA:1113:U:C6	2.55	0.56
24:BA:1285:G:O5'	24:BA:1285:G:C8	2.59	0.56
3:AD:67:C:O2'	3:AD:68:C:H5'	2.05	0.56
14:AO:18:VAL:O	14:AO:19:ARG:HB2	2.06	0.56
1:AA:1113:C:N3	1:AA:1114:C:C5	2.73	0.56
1:AA:124:G:C2'	1:AA:125:U:O4'	2.54	0.56
1:AA:1278:U:H5'	1:AA:1279:A:C4'	2.35	0.56
1:AA:1446:A:O2'	1:AA:1447:G:P	2.63	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1516:G:H22	1:AA:1518:A:C3'	2.15	0.56
1:AA:182:U:O2	1:AA:182:U:H2'	2.06	0.56
1:AA:324:G:N2	1:AA:327:A:OP2	2.39	0.56
1:AA:519:C:C5	1:AA:520:A:N3	2.74	0.56
1:AA:562:C:O2'	14:AO:15:ARG:CB	2.53	0.56
1:AA:640:A:H2'	1:AA:641:U:C5'	2.36	0.56
1:AA:794:A:C6	1:AA:795:C:N4	2.74	0.56
1:AA:815:A:C8	1:AA:819:A:H2	2.24	0.56
1:AA:961:U:C6	1:AA:983:A:N1	2.74	0.56
3:AB:74:C:N4	24:BA:2555:U:C2'	2.55	0.56
4:AE:101:MET:O	4:AE:103:THR:N	2.39	0.56
4:AE:107:THR:O	4:AE:108:ILE:C	2.43	0.56
4:AE:107:THR:C	4:AE:109:SER:N	2.56	0.56
4:AE:69:LEU:O	4:AE:162:ILE:HB	2.06	0.56
5:AF:10:PHE:C	5:AF:11:ARG:HE	2.09	0.56
5:AF:8:ILE:HD11	5:AF:16:ARG:HD2	1.88	0.56
6:AG:205:GLU:O	6:AG:206:PHE:C	2.44	0.56
6:AG:93:PHE:O	6:AG:96:LEU:N	2.39	0.56
7:AH:9:LYS:CB	7:AH:33:VAL:HB	2.30	0.56
9:AJ:26:PHE:HD2	9:AJ:43:PHE:HE1	1.52	0.56
11:AL:78:LYS:HD3	11:AL:79:LEU:HD22	1.87	0.56
12:AM:32:ALA:HB2	12:AM:75:ILE:O	2.05	0.56
12:AM:34:VAL:HG22	12:AM:74:ILE:CD1	2.36	0.56
14:AO:76:ASN:HD22	14:AO:77:LEU:HD23	1.69	0.56
14:AO:84:LEU:HD23	14:AO:85:ILE:N	2.20	0.56
1:AA:1228:C:P	15:AP:115:LYS:HB3	2.46	0.56
15:AP:71:ARG:O	15:AP:73:GLU:N	2.39	0.56
19:AT:40:LYS:NZ	19:AT:42:TYR:CE1	2.74	0.56
48:B1:54:ARG:HH21	48:B1:54:ARG:CG	2.18	0.56
50:B3:29:PRO:O	50:B3:31:ILE:HG23	2.06	0.56
50:B3:29:PRO:O	50:B3:31:ILE:N	2.39	0.56
50:B3:7:PRO:CD	50:B3:56:VAL:CG1	2.80	0.56
53:B6:8:ASN:HD22	53:B6:8:ASN:C	2.07	0.56
24:BA:1045:A:OP1	24:BA:1111:A:H2	1.87	0.56
24:BA:1178:C:N3	24:BA:1179:C:C4	2.74	0.56
24:BA:582:G:C6	24:BA:1259:G:C6	2.94	0.56
24:BA:1525:G:C4	24:BA:1526:G:C8	2.94	0.56
24:BA:1676:A:C8	24:BA:1677:A:N7	2.73	0.56
24:BA:1762:A:H8	24:BA:1762:A:C3'	2.09	0.56
24:BA:1833:U:O2'	24:BA:1834:U:OP1	2.14	0.56
24:BA:1840:G:O2'	24:BA:1841:U:H5'	2.05	0.56
24:BA:1882:C:H2'	24:BA:1883:G:C4'	2.35	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1902:C:H2'	24:BA:1903:G:C5'	2.36	0.56
24:BA:2067:G:C6	24:BA:2069:G:C5	2.94	0.56
24:BA:2215:G:H8	24:BA:2215:G:P	2.29	0.56
24:BA:2332:U:O4'	24:BA:2336:A:N6	2.37	0.56
24:BA:2371:G:C2'	24:BA:2372:G:O4'	2.53	0.56
24:BA:2423:U:C1'	24:BA:2425:A:C4	2.89	0.56
3:AD:76:A:C4	24:BA:2432:A:C1'	2.89	0.56
24:BA:2466:C:O2'	37:BP:123:HIS:NE2	2.35	0.56
24:BA:2453:A:N6	24:BA:2500:U:H3	2.01	0.56
24:BA:2501:C:H5''	24:BA:2502:G:H5''	1.88	0.56
24:BA:2527:C:H2'	24:BA:2528:U:C6	2.40	0.56
24:BA:2572:A:OP1	24:BA:2574:G:H4'	2.06	0.56
24:BA:2653:U:C3'	24:BA:2654:A:H8	2.19	0.56
24:BA:270(J):G:C6	24:BA:270(K):C:C4	2.93	0.56
24:BA:2713:A:H8	24:BA:2713:A:P	2.29	0.56
24:BA:2723:C:C4	24:BA:2724:C:C5	2.93	0.56
24:BA:2762:G:N7	24:BA:2763:G:N7	2.53	0.56
24:BA:2781:A:C3'	24:BA:2782:G:H4'	2.35	0.56
24:BA:2797:U:OP1	24:BA:2797:U:O4'	2.24	0.56
24:BA:2859:G:H2'	24:BA:2860:A:C8	2.40	0.56
24:BA:2884:U:H3	51:B4:40:LYS:HZ3	1.53	0.56
24:BA:461:C:N4	24:BA:469:G:N2	2.54	0.56
24:BA:460:A:C6	24:BA:470:A:C8	2.94	0.56
24:BA:472:A:C2'	24:BA:473:G:C5'	2.75	0.56
24:BA:61:G:H2'	24:BA:62:C:H6	1.70	0.56
24:BA:665:C:OP2	24:BA:665:C:C6	2.58	0.56
24:BA:730:C:H5''	24:BA:763:G:OP1	2.05	0.56
24:BA:977:G:C5	24:BA:987:G:C2	2.94	0.56
25:BB:64:C:O2'	25:BB:65:C:H5'	2.04	0.56
24:BA:2210:G:O6	27:BD:150:LYS:N	2.39	0.56
27:BD:172:TYR:HD2	27:BD:186:HIS:N	2.03	0.56
28:BE:59:VAL:CG1	28:BE:62:PRO:HD2	2.36	0.56
30:BG:8:LYS:HB2	30:BG:104:GLU:HB2	1.87	0.56
24:BA:2315:G:H4'	30:BG:130:ASN:OD1	2.06	0.56
30:BG:149:VAL:HG13	30:BG:150:ASP:N	2.21	0.56
30:BG:1:MET:HB3	30:BG:2:PRO:HD3	1.88	0.56
30:BG:6:ALA:CA	30:BG:9:ARG:HH21	2.18	0.56
31:BH:103:LEU:N	31:BH:115:VAL:HG12	2.21	0.56
31:BH:157:TYR:CD1	31:BH:158:HIS:HB2	2.41	0.56
31:BH:28:GLY:HA3	31:BH:79:VAL:CB	2.33	0.56
31:BH:51:ARG:HD3	31:BH:52:VAL:H	1.70	0.56
31:BH:76:VAL:O	31:BH:77:LYS:C	2.44	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BK:33:ARG:CB	32:BK:35:LEU:CD2	2.83	0.56
33:BL:34:ILE:O	33:BL:38:VAL:HB	2.06	0.56
33:BL:57:ILE:HA	33:BL:67:PHE:HB2	1.88	0.56
34:BM:17:ASP:HB3	34:BM:21:LYS:HZ1	1.71	0.56
34:BM:87:LEU:HA	34:BM:90:MET:CB	2.36	0.56
35:BN:111:PHE:O	35:BN:112:MET:C	2.43	0.56
36:BO:51:PHE:O	36:BO:55:ARG:CG	2.54	0.56
36:BO:91:PHE:O	36:BO:95:VAL:CB	2.52	0.56
37:BP:8:LYS:NZ	37:BP:11:LYS:NZ	2.51	0.56
24:BA:2466:C:HO2'	37:BP:123:HIS:HE2	1.51	0.56
38:BQ:54:LEU:HA	38:BQ:57:ARG:CG	2.34	0.56
39:BR:24:LEU:H	39:BR:86:ALA:HB2	1.70	0.56
40:BS:102:ILE:C	40:BS:104:ASN:N	2.56	0.56
40:BS:34:VAL:HG21	40:BS:36:GLU:CD	2.25	0.56
42:BU:40:LEU:HA	42:BU:54:GLY:CA	2.27	0.56
44:BW:39:ILE:O	44:BW:43:VAL:HG23	2.06	0.56
44:BW:42:ALA:O	44:BW:46:ALA:CB	2.54	0.56
46:BY:122:ARG:HG2	46:BY:171:ILE:CA	2.34	0.56
46:BY:24:LEU:CD2	46:BY:25:PRO:HD2	2.34	0.56
26:BC:7:TYR:CE2	26:BC:11:LEU:HD22	2.41	0.56
26:BC:22:ILE:HG23	26:BC:189:ILE:HG21	1.88	0.56
24:BA:1578:U:H3'	24:BA:1580:A:C2	2.41	0.56
3:AD:41:C:C5'	3:AD:41:C:H6	2.18	0.56
9:AJ:132:GLY:O	9:AJ:136:LYS:HB2	2.06	0.56
29:BF:148:LEU:N	29:BF:148:LEU:HD22	2.21	0.56
2:A1:37:U:H5''	2:A1:38:U:OP1	2.06	0.56
2:A1:38:U:C6	2:A1:38:U:OP2	2.58	0.56
1:AA:1125:U:H4'	1:AA:1126:U:H5	1.71	0.56
1:AA:1251:A:C2'	1:AA:1252:A:C8	2.88	0.56
1:AA:944:G:N2	1:AA:1339:A:H62	1.86	0.56
1:AA:190:G:HO2'	1:AA:191(A):G:P	2.28	0.56
1:AA:283:C:C2'	1:AA:283:C:O2	2.51	0.56
1:AA:300:A:C2	1:AA:566:G:O6	2.59	0.56
1:AA:366:C:O2'	1:AA:394:G:N2	2.39	0.56
1:AA:577:G:H1'	1:AA:816:A:C2	2.41	0.56
1:AA:577:G:N2	1:AA:578:C:H1'	2.19	0.56
1:AA:944:G:C3'	1:AA:945:G:C5'	2.82	0.56
1:AA:962:C:O2'	1:AA:963:G:H5'	2.05	0.56
1:AA:974:A:H8	1:AA:974:A:OP1	1.88	0.56
4:AE:189:ASP:HB2	4:AE:205:ASP:CB	2.36	0.56
4:AE:20:GLU:N	4:AE:20:GLU:OE1	2.38	0.56
6:AG:144:ASP:HA	6:AG:184:LYS:HZ2	1.71	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:15:GLU:HA	6:AG:15:GLU:OE1	2.06	0.56
6:AG:162:LEU:O	6:AG:166:LYS:HG2	2.05	0.56
6:AG:34:GLU:O	6:AG:35:ARG:CB	2.54	0.56
7:AH:106:PRO:O	7:AH:109:ILE:CG2	2.54	0.56
8:AI:23:LYS:HA	8:AI:26:ILE:CG1	2.35	0.56
8:AI:72:VAL:O	8:AI:73:ASN:C	2.44	0.56
10:AK:14:ARG:HD2	10:AK:15:ASN:ND2	2.21	0.56
10:AK:44:PHE:HD1	10:AK:79:VAL:HG12	1.71	0.56
11:AL:111:ARG:HG2	11:AL:112:LYS:N	2.21	0.56
11:AL:49:PRO:HD3	11:AL:78:LYS:CG	2.33	0.56
13:AN:31:THR:OG1	13:AN:42:TRP:HB3	2.05	0.56
13:AN:80:VAL:CG2	13:AN:81:ASP:N	2.69	0.56
14:AO:27:LEU:HD21	14:AO:33:ARG:HH11	1.70	0.56
14:AO:85:ILE:HD12	14:AO:99:HIS:C	2.26	0.56
16:AQ:11:LYS:O	16:AQ:13:THR:N	2.39	0.56
16:AQ:13:THR:O	16:AQ:15:LYS:N	2.39	0.56
16:AQ:42:ILE:C	16:AQ:44:LEU:N	2.56	0.56
17:AR:66:LEU:H	17:AR:66:LEU:HD23	1.70	0.56
21:AV:12:ASP:O	21:AV:15:LEU:HG	2.05	0.56
22:AW:62:LEU:HD23	22:AW:65:LYS:HG3	1.87	0.56
50:B3:55:ARG:O	50:B3:61:ARG:NE	2.38	0.56
50:B3:65:ASP:OD2	50:B3:69:LYS:HE3	2.05	0.56
54:B7:23:VAL:HG13	54:B7:24:ALA:N	2.20	0.56
24:BA:1024:G:OP2	24:BA:1025:G:N3	2.39	0.56
24:BA:1174:A:N3	24:BA:1174:A:C2'	2.69	0.56
24:BA:1366:A:N1	24:BA:1367:A:N3	2.54	0.56
24:BA:1472:A:N7	24:BA:1474:C:C5	2.74	0.56
24:BA:1527:G:C1'	24:BA:1528:A:N3	2.68	0.56
24:BA:1530:G:H22	24:BA:1541:U:C2'	2.16	0.56
24:BA:1609:A:N6	24:BA:1616:A:C2	2.74	0.56
24:BA:1657:C:O2'	24:BA:1658:C:H5'	2.05	0.56
24:BA:1664:A:C2'	24:BA:1665:A:H8	2.18	0.56
24:BA:1762:A:C5'	24:BA:1763:G:OP2	2.53	0.56
24:BA:1764:G:HO2'	24:BA:1765:C:H5'	1.71	0.56
24:BA:1790:C:OP2	27:BD:221:VAL:O	2.22	0.56
24:BA:1955:U:O3'	24:BA:1956:U:C5	2.58	0.56
24:BA:1990:C:N3	24:BA:1991:U:N3	2.54	0.56
24:BA:216:A:C2	24:BA:217:G:C5	2.94	0.56
24:BA:184:C:O3'	24:BA:217:G:N2	2.38	0.56
24:BA:2261:C:O5'	24:BA:2261:C:H6	1.89	0.56
24:BA:2324:C:O2	24:BA:2385:C:C5	2.58	0.56
24:BA:2376:A:C2	24:BA:2377:A:C4	2.94	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2428:G:C4'	24:BA:2429:G:O5'	2.54	0.56
24:BA:2457:U:O2'	24:BA:2458:G:H5'	2.06	0.56
24:BA:2531:A:O2'	24:BA:2532:G:H5'	2.05	0.56
24:BA:2694:G:C5	24:BA:2695:C:C5	2.94	0.56
24:BA:270(K):C:H3'	24:BA:270(L):U:O4'	2.06	0.56
24:BA:2723:C:P	28:BE:109:LYS:HZ3	2.29	0.56
24:BA:2734:A:N3	28:BE:203:LYS:HD2	2.21	0.56
24:BA:2753:A:H2'	24:BA:2754:U:O5'	2.06	0.56
24:BA:2845:G:O2'	24:BA:2846:G:O5'	2.23	0.56
24:BA:572:A:H61	24:BA:2029:G:H1'	1.71	0.56
24:BA:64:A:C2	44:BW:66:LEU:HB2	2.41	0.56
24:BA:671:C:H5'	24:BA:672:C:OP2	2.06	0.56
24:BA:914:C:H5	24:BA:915:C:C5	2.24	0.56
24:BA:919:G:N3	24:BA:920:G:C8	2.74	0.56
24:BA:92:G:H2'	24:BA:93:C:C6	2.40	0.56
25:BB:69:G:C5'	25:BB:70:C:OP2	2.54	0.56
27:BD:175:LEU:HD22	27:BD:176:ARG:H	1.66	0.56
24:BA:1971:A:N3	27:BD:239:ARG:HA	2.20	0.56
27:BD:64:ILE:HG23	27:BD:64:ILE:O	2.06	0.56
27:BD:94:LEU:HD12	27:BD:95:LEU:N	2.21	0.56
28:BE:111:ARG:HB2	28:BE:161:GLY:CA	2.35	0.56
28:BE:14:ILE:HG22	28:BE:19:ARG:CA	2.36	0.56
28:BE:41:LYS:O	28:BE:44:TYR:N	2.39	0.56
28:BE:49:LEU:HD13	28:BE:50:GLY:H	1.71	0.56
29:BF:5:ALA:O	29:BF:20:LEU:HD22	2.04	0.56
30:BG:102:PHE:O	30:BG:103:LEU:C	2.42	0.56
30:BG:19:LEU:H	30:BG:19:LEU:HD12	1.70	0.56
30:BG:49:ASP:CA	30:BG:53:LEU:HD13	2.36	0.56
30:BG:47:LYS:HE2	30:BG:73:ALA:CB	2.31	0.56
31:BH:15:VAL:HG21	31:BH:79:VAL:HG21	1.87	0.56
31:BH:68:THR:O	31:BH:72:ILE:HG13	2.06	0.56
33:BL:104:VAL:HG22	33:BL:127:ILE:HG21	1.88	0.56
33:BL:17:ALA:HB1	33:BL:38:VAL:CG1	2.24	0.56
33:BL:20:ALA:O	33:BL:25:PRO:CD	2.53	0.56
34:BM:99:LEU:CD2	34:BM:122:VAL:HG21	2.36	0.56
34:BM:39:ARG:HB3	34:BM:48:MET:SD	2.46	0.56
35:BN:3:GLN:NE2	35:BN:33:ALA:CB	2.41	0.56
36:BO:36:LYS:NZ	36:BO:42:SER:CB	2.68	0.56
38:BQ:85:PRO:O	38:BQ:87:TYR:N	2.39	0.56
39:BR:106:ARG:HH22	39:BR:110:LEU:CD1	2.16	0.56
39:BR:74:ALA:CB	39:BR:104:GLY:O	2.53	0.56
40:BS:102:ILE:C	40:BS:104:ASN:H	2.08	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BS:7:ILE:CG1	40:BS:8:LYS:N	2.68	0.56
41:BT:108:GLU:OE1	41:BT:109:LEU:CG	2.51	0.56
41:BT:45:TYR:O	41:BT:49:HIS:ND1	2.39	0.56
41:BT:61:TRP:HZ3	41:BT:93:LYS:C	2.09	0.56
42:BU:6:LYS:HZ3	42:BU:10:LYS:HD2	1.69	0.56
42:BU:13:ARG:O	42:BU:14:VAL:CG2	2.53	0.56
42:BU:62:LEU:CD1	42:BU:96:ILE:HD13	2.35	0.56
44:BW:7:VAL:CB	48:B1:28:MET:HG2	2.36	0.56
45:BX:46:LYS:HD3	45:BX:52:SER:OG	2.05	0.56
46:BY:116:VAL:HG12	46:BY:176:PRO:HA	1.86	0.56
47:BZ:31:VAL:HG22	47:BZ:67:VAL:N	2.21	0.56
47:BZ:46:LYS:HG3	47:BZ:78:TYR:CD2	2.39	0.56
24:BA:856:C:H1'	47:BZ:69:PHE:HE1	1.69	0.56
47:BZ:76:GLY:C	47:BZ:78:TYR:CE1	2.79	0.56
26:BC:115:ALA:CB	26:BC:120:MET:SD	2.85	0.56
26:BC:180:PHE:HB3	26:BC:185:LEU:CD2	2.20	0.56
26:BC:93:TYR:CZ	26:BC:109:ASP:HB3	2.41	0.56
24:BA:273(B):C:H2'	24:BA:273(C):C:H6	1.66	0.56
11:AL:99:LEU:N	11:AL:99:LEU:HD22	2.20	0.56
34:BM:133:GLN:OE1	34:BM:133:GLN:HA	2.06	0.56
1:AA:1159:U:C5'	1:AA:1160:G:OP1	2.51	0.56
1:AA:1238:A:N7	1:AA:1303:C:H1'	2.21	0.56
1:AA:1261:A:C2	1:AA:1262:C:C2	2.93	0.56
1:AA:1299:A:N6	1:AA:1301:U:C2	2.74	0.56
1:AA:1336:C:O2'	1:AA:1337:G:C5	2.56	0.56
1:AA:1362(A):C:H5'	1:AA:1363:A:P	2.45	0.56
1:AA:1466:C:C3'	1:AA:1467:G:C8	2.89	0.56
1:AA:151:A:N6	1:AA:152:A:C2	2.74	0.56
1:AA:409:G:C5'	6:AG:24:GLU:OE1	2.54	0.56
1:AA:435:C:C2'	1:AA:436:C:H5'	2.36	0.56
1:AA:597:G:O2'	1:AA:598:U:H5'	2.05	0.56
1:AA:62:U:H1'	1:AA:379:C:H1'	1.87	0.56
1:AA:893:C:C2	1:AA:894:G:C8	2.94	0.56
1:AA:962:C:H2'	1:AA:963:G:C8	2.41	0.56
3:AB:59:U:C5	3:AB:60:U:C4	2.94	0.56
4:AE:135:GLN:O	4:AE:139:LYS:HG2	2.06	0.56
5:AF:131:ARG:HH12	7:AH:51:VAL:CG2	2.19	0.56
1:AA:532:A:C5'	5:AF:161:GLU:OE1	2.54	0.56
5:AF:84:ILE:HG13	5:AF:101:LEU:CD1	2.35	0.56
6:AG:200:GLU:HG3	6:AG:201:GLN:HE21	1.70	0.56
6:AG:25:ARG:C	6:AG:27:TYR:N	2.59	0.56
6:AG:63:LYS:HD2	6:AG:63:LYS:N	2.21	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AH:72:GLN:HG3	7:AH:77:PRO:HD3	1.88	0.56
8:AI:76:ALA:HA	8:AI:79:LEU:HD12	1.88	0.56
9:AJ:26:PHE:CD2	9:AJ:43:PHE:CE1	2.94	0.56
9:AJ:75:VAL:HG12	9:AJ:76:ARG:N	2.19	0.56
11:AL:36:TYR:HD2	11:AL:37:PHE:CE2	2.23	0.56
12:AM:27:ALA:CB	12:AM:85:LEU:HD11	2.36	0.56
12:AM:27:ALA:HB2	12:AM:85:LEU:HD21	1.87	0.56
13:AN:62:GLN:HA	13:AN:97:ALA:CB	2.36	0.56
13:AN:85:ARG:NH2	13:AN:111:ASP:OD2	2.38	0.56
13:AN:92:GLU:C	13:AN:94:ALA:N	2.57	0.56
14:AO:96:VAL:O	14:AO:96:VAL:HG12	2.05	0.56
15:AP:3:ARG:HA	15:AP:7:VAL:HA	1.88	0.56
17:AR:70:LEU:O	17:AR:74:ASP:O	2.23	0.56
18:AS:12:LYS:NZ	18:AS:13:HIS:CE1	2.74	0.56
19:AT:18:THR:HG23	19:AT:69:LYS:HE3	1.87	0.56
19:AT:53:LEU:HG	19:AT:53:LEU:O	2.06	0.56
19:AT:44:ALA:CB	19:AT:71:PHE:O	2.55	0.56
21:AV:69:HIS:CB	21:AV:74:PHE:HZ	2.04	0.56
50:B3:5:ILE:HB	50:B3:8:LYS:O	2.06	0.56
52:B5:17:LYS:HZ2	52:B5:50:ARG:CB	2.17	0.56
24:BA:1000:A:N7	24:BA:1001:A:C5	2.74	0.56
24:BA:1131:G:N2	24:BA:1132:A:C2	2.74	0.56
24:BA:1177:A:C2	24:BA:1178:C:C2	2.93	0.56
24:BA:1178:C:C4	24:BA:1179:C:N4	2.74	0.56
24:BA:1179:C:C2'	24:BA:1180:C:H6	2.19	0.56
24:BA:1182:A:C6	24:BA:1183:G:C6	2.94	0.56
24:BA:1224:G:C2'	42:BU:87:HIS:CE1	2.89	0.56
24:BA:1286:A:C2	24:BA:1329:U:C2	2.94	0.56
24:BA:1358:G:N7	24:BA:1371:G:C6	2.74	0.56
24:BA:1401:G:C5	24:BA:1402:C:C5	2.93	0.56
24:BA:1636:C:H2'	24:BA:1636:C:O2	2.07	0.56
24:BA:1699:G:C8	24:BA:1763:G:N2	2.74	0.56
24:BA:1699:G:O6	24:BA:1763:G:O4'	2.24	0.56
24:BA:1917:U:H6	24:BA:1918:A:C8	2.24	0.56
24:BA:2040:C:C2	24:BA:2041:U:C5	2.94	0.56
24:BA:2048:G:C2	24:BA:2049:G:C4	2.94	0.56
24:BA:574:C:H41	24:BA:2054:A:C5'	2.19	0.56
24:BA:2074:U:O2'	24:BA:2075:U:H5'	2.05	0.56
24:BA:2273:A:C8	24:BA:2274:A:C8	2.94	0.56
24:BA:2309:A:N7	30:BG:80:PHE:CZ	2.73	0.56
24:BA:2375:G:H21	24:BA:2378:A:H61	1.45	0.56
24:BA:2441:C:H2'	24:BA:2442:C:H6	1.71	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2491:U:C6	24:BA:2492:U:OP2	2.59	0.56
24:BA:253:C:H2'	24:BA:254:G:O5'	2.06	0.56
24:BA:2737:G:H2'	24:BA:2738:A:H8	1.71	0.56
24:BA:373:U:C4	50:B3:63:TYR:HE1	2.23	0.56
24:BA:27:G:H22	24:BA:512:G:C2'	2.19	0.56
24:BA:513:A:N1	24:BA:514:A:N7	2.54	0.56
24:BA:727:A:N3	24:BA:727:A:C2'	2.68	0.56
24:BA:780:G:N3	24:BA:785:G:O6	2.38	0.56
24:BA:827:U:H4'	24:BA:828:U:H3	1.70	0.56
24:BA:907:U:OP1	37:BP:26:TYR:CE1	2.59	0.56
24:BA:943:U:P	24:BA:943:U:O4'	2.64	0.56
27:BD:178:PRO:CG	27:BD:179:SER:H	2.14	0.56
27:BD:5:LYS:HD3	27:BD:31:LYS:HZ2	1.71	0.56
28:BE:164:ARG:C	28:BE:165:VAL:HG22	2.27	0.56
28:BE:66:HIS:ND1	28:BE:66:HIS:C	2.60	0.56
29:BF:36:VAL:HG13	29:BF:37:VAL:N	2.21	0.56
29:BF:53:THR:OG1	29:BF:54:ARG:N	2.37	0.56
30:BG:68:PRO:HB3	30:BG:72:ARG:NH1	2.21	0.56
31:BH:127:GLU:HB3	31:BH:129:THR:N	2.21	0.56
31:BH:29:PRO:CD	31:BH:79:VAL:HA	2.35	0.56
31:BH:30:LYS:O	31:BH:32:GLU:N	2.39	0.56
31:BH:94:TYR:HE2	31:BH:96:ALA:CB	2.19	0.56
34:BM:53:VAL:CA	34:BM:121:LYS:O	2.45	0.56
35:BN:59:LYS:CB	35:BN:84:ALA:O	2.50	0.56
36:BO:74:GLU:HG2	36:BO:112:LEU:HD23	1.88	0.56
37:BP:52:VAL:O	37:BP:53:ALA:C	2.43	0.56
37:BP:63:LYS:HZ2	37:BP:64:ILE:HG13	1.71	0.56
39:BR:17:ARG:O	39:BR:20:ARG:CB	2.54	0.56
39:BR:42:ASP:OD1	39:BR:44:LYS:HD2	2.05	0.56
39:BR:49:VAL:C	39:BR:76:LYS:HZ1	2.09	0.56
24:BA:2320:A:N6	39:BR:4:LEU:CD1	2.69	0.56
24:BA:2296:U:C5	39:BR:5:THR:HG23	2.41	0.56
39:BR:93:LYS:O	39:BR:98:VAL:HG13	2.06	0.56
40:BS:76:PHE:CZ	40:BS:78:LEU:HG	2.41	0.56
41:BT:46:ALA:HA	41:BT:49:HIS:ND1	2.20	0.56
42:BU:73:SER:OG	42:BU:89:GLN:NE2	2.39	0.56
42:BU:65:GLY:CA	42:BU:97:LYS:HZ1	2.19	0.56
43:BV:72:LYS:CB	43:BV:108:GLY:HA3	2.36	0.56
44:BW:24:GLY:O	44:BW:82:GLN:HG3	2.06	0.56
46:BY:39:VAL:HG22	46:BY:44:PHE:HE2	1.65	0.56
47:BZ:12:ASN:O	47:BZ:14:ARG:HG2	2.06	0.56
47:BZ:50:ASN:HB2	47:BZ:81:VAL:HB	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2163:C:C2'	24:BA:2164:C:H5'	2.36	0.56
33:BL:61:ALA:O	33:BL:62:ASP:HB2	2.06	0.56
24:BA:2184:G:H2'	24:BA:2184:G:N3	2.21	0.56
1:AA:1004:A:H5''	1:AA:1025:U:C5	2.41	0.55
1:AA:1077:G:H21	1:AA:1079:G:H3'	1.64	0.55
1:AA:1069:C:H1'	1:AA:1191:A:C2	2.40	0.55
1:AA:1204:A:H2'	1:AA:1205:U:H5'	1.87	0.55
1:AA:1259:C:O5'	1:AA:1259:C:H6	1.89	0.55
1:AA:1300:G:O2'	1:AA:1301:U:O5'	2.24	0.55
1:AA:978:A:N1	1:AA:1318:A:C6	2.74	0.55
1:AA:1222:G:OP2	1:AA:1322:C:H5	1.89	0.55
1:AA:1377:A:H5''	1:AA:1378:C:C6	2.41	0.55
1:AA:1430:C:C2	1:AA:1431:C:C5	2.93	0.55
1:AA:1500:A:OP2	1:AA:1505:G:OP2	2.24	0.55
1:AA:1516:G:N2	1:AA:1518:A:P	2.79	0.55
1:AA:1528:U:HO2'	1:AA:1529:G:H3'	1.68	0.55
1:AA:68:G:H4'	1:AA:171:A:O4'	2.06	0.55
1:AA:250:A:H5'	1:AA:252:U:O4'	2.05	0.55
1:AA:432:A:N7	1:AA:433:C:C6	2.74	0.55
1:AA:454:C:H5''	1:AA:455:C:OP2	2.06	0.55
1:AA:373:A:C6	1:AA:482:A:N6	2.74	0.55
1:AA:587:G:N3	1:AA:755:G:C2	2.74	0.55
1:AA:768:A:N6	1:AA:769:G:C6	2.74	0.55
1:AA:949:A:O2'	1:AA:971:G:N2	2.39	0.55
4:AE:113:HIS:HA	4:AE:116:GLU:CD	2.26	0.55
2:A1:12:U:OP1	4:AE:37:ASN:HB2	2.05	0.55
4:AE:97:TRP:CZ2	4:AE:102:LEU:CD1	2.82	0.55
5:AF:3:ASN:CG	5:AF:4:LYS:N	2.59	0.55
5:AF:59:ARG:CZ	5:AF:64:VAL:HG22	2.36	0.55
6:AG:185:PHE:HD2	6:AG:186:LEU:H	1.54	0.55
8:AI:46:ARG:NH2	20:AU:37:VAL:CG2	2.68	0.55
9:AJ:85:TYR:HD1	9:AJ:154:TYR:CE1	2.24	0.55
10:AK:6:ILE:HD12	10:AK:85:ARG:HD3	1.88	0.55
11:AL:114:TYR:CE1	12:AM:60:ARG:NH1	2.74	0.55
11:AL:49:PRO:HD3	11:AL:78:LYS:NZ	2.20	0.55
13:AN:44:SER:N	13:AN:47:VAL:HG21	2.21	0.55
13:AN:71:LYS:HG3	13:AN:72:ALA:H	1.71	0.55
14:AO:85:ILE:CD1	14:AO:98:TYR:HB3	2.37	0.55
14:AO:24:VAL:HG13	14:AO:98:TYR:CE2	2.41	0.55
1:AA:728:A:H5'	17:AR:54:ARG:HH22	1.70	0.55
17:AR:71:GLN:N	17:AR:78:TYR:HD1	2.03	0.55
18:AS:12:LYS:HZ1	18:AS:13:HIS:CD2	2.24	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AS:49:LEU:HD12	18:AS:50:LYS:H	1.70	0.55
18:AS:60:LEU:CA	18:AS:64:ALA:HB3	2.28	0.55
23:AX:4:GLY:C	23:AX:6:ARG:N	2.57	0.55
23:AX:6:ARG:HH11	23:AX:15:ARG:NH2	2.03	0.55
48:B1:15:GLU:O	48:B1:16:LEU:C	2.44	0.55
50:B3:22:ILE:O	50:B3:22:ILE:HG22	2.06	0.55
50:B3:38:LYS:HG2	50:B3:40:HIS:HD1	1.71	0.55
24:BA:2884:U:H3	51:B4:40:LYS:NZ	2.03	0.55
51:B4:46:CYS:H	51:B4:50:GLY:HA2	1.71	0.55
51:B4:9:LYS:CD	51:B4:10:LYS:H	2.19	0.55
24:BA:2286:A:N6	52:B5:29:ASN:C	2.59	0.55
24:BA:1029:A:H2'	24:BA:1030:G:C4'	2.36	0.55
24:BA:1083:U:C2	24:BA:1085:A:C8	2.94	0.55
24:BA:112:U:H2'	24:BA:112:U:O2	2.06	0.55
24:BA:1364:G:OP1	50:B3:3:GLU:HB2	2.06	0.55
24:BA:13:A:C8	24:BA:15:G:O6	2.59	0.55
24:BA:1407:C:C2	24:BA:1408:C:C5	2.94	0.55
24:BA:1477:A:C2	24:BA:1516:U:C2	2.94	0.55
24:BA:1515:C:OP1	24:BA:1515:C:C6	2.59	0.55
24:BA:1649:G:C2	24:BA:1650:G:N7	2.74	0.55
24:BA:186:G:O2'	24:BA:187:G:H5'	2.06	0.55
24:BA:1935:G:N2	24:BA:1962:C:C2'	2.69	0.55
24:BA:1946:U:H2'	24:BA:1947:C:H6	1.71	0.55
24:BA:1956:U:O2'	24:BA:1985:G:H4'	2.06	0.55
24:BA:2003:G:N1	24:BA:2004:G:C2	2.74	0.55
24:BA:2051:A:H1'	28:BE:141:ILE:HD11	1.88	0.55
24:BA:2238:G:H2'	24:BA:2239:G:H5''	1.87	0.55
24:BA:2274:A:N7	24:BA:2276:G:C8	2.74	0.55
24:BA:2361:A:H3'	24:BA:2362:G:C8	2.28	0.55
24:BA:2478:A:O4'	55:B8:31:LYS:NZ	2.39	0.55
24:BA:2486:G:N1	24:BA:2487:G:C5	2.75	0.55
24:BA:2560:C:C2'	24:BA:2561:A:H5'	2.36	0.55
24:BA:2594:C:H2'	24:BA:2595:G:O4'	2.06	0.55
24:BA:2606:C:C2	24:BA:2607:G:C8	2.93	0.55
24:BA:271(C):U:O4	24:BA:421:U:C4	2.60	0.55
24:BA:2825:C:C6	24:BA:2825:C:O5'	2.52	0.55
24:BA:2851:A:N1	24:BA:2852:G:N3	2.54	0.55
24:BA:609:A:N1	24:BA:619:G:C2	2.74	0.55
24:BA:621:A:C8	24:BA:622:G:C4'	2.89	0.55
24:BA:724:U:H2'	24:BA:725:G:H5'	1.88	0.55
24:BA:566:U:O2'	24:BA:809:G:OP2	2.17	0.55
24:BA:820:A:N1	24:BA:821:A:N3	2.53	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:848:G:N2	24:BA:933:A:C4	2.74	0.55
24:BA:904:C:O4'	46:BY:169:GLU:OE1	2.24	0.55
24:BA:930:U:HO2'	24:BA:931:G:P	2.29	0.55
24:BA:946:G:O6	24:BA:972:G:N2	2.38	0.55
27:BD:159:ALA:HA	27:BD:196:VAL:HG11	1.88	0.55
27:BD:90:ALA:CA	27:BD:91:ARG:NH1	2.69	0.55
28:BE:187:ALA:O	28:BE:188:VAL:C	2.44	0.55
28:BE:13:ARG:HE	28:BE:21:VAL:CA	2.18	0.55
29:BF:201:VAL:HG12	29:BF:205:ARG:CZ	2.36	0.55
30:BG:125:PHE:HD2	30:BG:129:GLY:H	1.53	0.55
30:BG:16:ARG:CG	30:BG:16:ARG:NH2	2.68	0.55
30:BG:54:GLU:OE2	30:BG:70:VAL:HG22	2.06	0.55
31:BH:126:PRO:O	31:BH:127:GLU:CG	2.50	0.55
32:BK:26:ALA:CA	32:BK:30:LEU:HD23	2.35	0.55
32:BK:31:LEU:N	32:BK:32:PRO:CD	2.69	0.55
33:BL:20:ALA:HB3	33:BL:21:PRO:CD	2.36	0.55
34:BM:42:TRP:O	34:BM:43:THR:CG2	2.53	0.55
34:BM:49:GLY:O	34:BM:50:ASP:O	2.24	0.55
35:BN:97:ARG:CD	35:BN:118:ALA:HB2	2.36	0.55
35:BN:35:VAL:HG11	35:BN:64:ARG:HD3	1.88	0.55
24:BA:1244:G:C5'	36:BO:9:ASN:CB	2.81	0.55
37:BP:67:ARG:NH2	37:BP:103:MET:C	2.58	0.55
38:BQ:97:VAL:CA	38:BQ:114:VAL:HG22	2.32	0.55
38:BQ:20:LEU:CD1	38:BQ:21:TYR:N	2.69	0.55
38:BQ:7:GLY:O	38:BQ:8:ARG:C	2.45	0.55
39:BR:3:ARG:HG2	39:BR:4:LEU:CG	2.21	0.55
41:BT:105:VAL:HG22	41:BT:109:LEU:HD11	1.87	0.55
41:BT:29:SER:OG	41:BT:30:LYS:HD2	2.06	0.55
41:BT:55:ARG:HH11	41:BT:55:ARG:CG	2.04	0.55
42:BU:3:ALA:HB1	42:BU:44:LYS:NZ	2.21	0.55
41:BT:40:PHE:HD2	42:BU:84:LYS:HG2	1.71	0.55
44:BW:63:LYS:CA	44:BW:63:LYS:HE2	2.35	0.55
45:BX:75:ILE:N	45:BX:100:ALA:HB1	2.18	0.55
46:BY:29:TYR:CD1	46:BY:72:ARG:NH2	2.74	0.55
47:BZ:70:GLN:O	47:BZ:78:TYR:O	2.23	0.55
26:BC:7:TYR:CE2	26:BC:11:LEU:HD13	2.41	0.55
24:BA:1488:G:C3'	24:BA:1489:U:C5'	2.83	0.55
24:BA:1510:A:H5'	24:BA:1511:A:OP2	2.06	0.55
24:BA:41:C:C2	24:BA:43:G:C8	2.94	0.55
1:AA:1017:G:H2'	1:AA:1018:C:H6	1.71	0.55
1:AA:1109:C:OP2	5:AF:176:HIS:CD2	2.59	0.55
1:AA:1125:U:OP2	1:AA:1126:U:O4	2.24	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1234:C:C4'	1:AA:1364:U:H1'	2.34	0.55
1:AA:1319:A:C5'	21:AV:5:LEU:HD21	2.36	0.55
1:AA:1332:A:H2'	1:AA:1332:A:N3	2.21	0.55
1:AA:1346:A:O2'	1:AA:1347:G:OP2	2.22	0.55
1:AA:1428:A:C6	1:AA:1429:C:N4	2.75	0.55
1:AA:1464:G:N3	1:AA:1465:C:C5	2.74	0.55
1:AA:155:C:C2	1:AA:167:G:C2	2.94	0.55
1:AA:476:G:O2'	1:AA:477:G:H5'	2.06	0.55
1:AA:545:C:OP2	6:AG:62:GLN:OE1	2.23	0.55
1:AA:781:A:H4'	1:AA:1522:U:HO2'	1.67	0.55
1:AA:878:G:O4'	10:AK:3:THR:HG21	2.06	0.55
1:AA:886:G:C2'	1:AA:887:G:C5'	2.82	0.55
1:AA:966:G:C2'	1:AA:967:C:O5'	2.54	0.55
1:AA:974:A:P	16:AQ:31:ARG:HG2	2.46	0.55
1:AA:9:G:H3'	7:AH:126:ARG:NH1	2.21	0.55
3:AC:50:U:O2'	3:AC:51:U:H5'	2.05	0.55
3:AC:73:A:O2'	3:AC:74:C:P	2.64	0.55
4:AE:149:LEU:O	4:AE:151:GLY:N	2.39	0.55
4:AE:176:GLU:O	4:AE:180:LEU:CG	2.52	0.55
4:AE:31:TYR:OH	4:AE:200:ILE:HD13	2.07	0.55
5:AF:47:LEU:CD1	5:AF:83:ARG:NH2	2.70	0.55
1:AA:402:G:P	6:AG:74:GLN:HE21	2.28	0.55
6:AG:80:GLU:CA	6:AG:83:SER:OG	2.54	0.55
7:AH:43:LEU:HB3	7:AH:136:MET:HE1	1.87	0.55
7:AH:20:GLN:NE2	7:AH:21:ALA:H	2.03	0.55
7:AH:72:GLN:HE21	7:AH:144:THR:HG23	1.71	0.55
8:AI:49:ALA:HB3	20:AU:79:LEU:CA	2.36	0.55
9:AJ:36:LYS:HA	9:AJ:36:LYS:HZ2	1.68	0.55
9:AJ:97:GLN:O	9:AJ:98:SER:C	2.45	0.55
11:AL:16:ARG:NH1	11:AL:64:THR:HG21	2.21	0.55
12:AM:26:ALA:C	12:AM:28:ARG:H	2.09	0.55
14:AO:26:ALA:O	14:AO:27:LEU:HB3	2.06	0.55
14:AO:64:TYR:C	14:AO:65:GLU:HG3	2.25	0.55
1:AA:1329:A:H5''	15:AP:29:ARG:CG	2.37	0.55
12:AM:47:PHE:CE2	16:AQ:37:PHE:HZ	2.24	0.55
17:AR:42:HIS:O	17:AR:43:LEU:C	2.45	0.55
18:AS:72:ARG:NH2	18:AS:73:LEU:HD23	2.19	0.55
19:AT:28:PRO:C	19:AT:36:ILE:HD11	2.26	0.55
19:AT:86:GLU:O	19:AT:89:LEU:HB2	2.06	0.55
20:AU:34:TYR:HE1	20:AU:35:ARG:HE	1.53	0.55
21:AV:62:ILE:HD11	21:AV:67:VAL:CG1	2.35	0.55
22:AW:81:LYS:HB3	22:AW:85:MET:CE	2.36	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:B2:6:VAL:HG12	49:B2:55:ARG:C	2.27	0.55
53:B6:5:TRP:HZ3	53:B6:12:ARG:NH1	2.04	0.55
24:BA:1069:A:C4'	24:BA:1070:A:O5'	2.54	0.55
24:BA:1061:U:O3'	24:BA:1070:A:O4'	2.24	0.55
24:BA:1073:A:N7	24:BA:1074:G:C6	2.75	0.55
24:BA:1127:A:C8	24:BA:1127:A:C3'	2.89	0.55
24:BA:1142(A):A:N6	24:BA:1143:A:C8	2.74	0.55
24:BA:996:A:N6	24:BA:1160:G:C6	2.75	0.55
24:BA:1314:C:O2'	24:BA:1315:C:H5'	2.05	0.55
24:BA:1366:A:C5'	50:B3:1:MET:N	2.69	0.55
24:BA:1354:A:H62	24:BA:1377:G:H21	1.53	0.55
24:BA:1447:G:H1'	24:BA:1545(A):A:C1'	2.36	0.55
24:BA:1449:A:C2	24:BA:1449(A):G:N9	2.75	0.55
24:BA:1456:G:C2	24:BA:1457:A:C8	2.95	0.55
24:BA:1460:A:N1	24:BA:1732:A:C6	2.74	0.55
24:BA:1473:G:C2'	24:BA:1474:C:O4'	2.54	0.55
24:BA:1650:G:N2	24:BA:1651:G:C1'	2.62	0.55
24:BA:1697:G:C8	24:BA:1698:A:C5'	2.85	0.55
24:BA:184:C:H2'	24:BA:185:U:C5	2.41	0.55
24:BA:1936:A:C4	24:BA:1940:U:N3	2.75	0.55
24:BA:1900:A:H2	24:BA:1970:A:C6	2.24	0.55
24:BA:1975:G:H2'	24:BA:1976:U:O5'	2.06	0.55
24:BA:1993:U:C6	24:BA:1993:U:H3'	2.41	0.55
24:BA:2091:U:C3'	24:BA:2092:U:H5'	2.36	0.55
24:BA:2208:U:O2'	24:BA:2217:G:N2	2.39	0.55
24:BA:2281:C:O2'	24:BA:2282:G:O5'	2.22	0.55
24:BA:2346:A:H4'	24:BA:2383:G:O4'	2.05	0.55
24:BA:2412:A:C8	24:BA:2413:G:C8	2.94	0.55
24:BA:2436:G:O2'	24:BA:2437:U:H5'	2.06	0.55
24:BA:2498:C:C3'	24:BA:2499:C:H5''	2.37	0.55
24:BA:270(F):U:C4	24:BA:270(G):C:C5	2.94	0.55
24:BA:2718:G:C5	24:BA:2719:G:C5	2.94	0.55
24:BA:2748:A:N3	31:BH:67:LEU:HD11	2.20	0.55
24:BA:2749:A:C2	24:BA:2757:A:N1	2.74	0.55
24:BA:343:C:HO2'	24:BA:344:G:H5'	1.69	0.55
24:BA:348:G:N3	24:BA:349:G:C8	2.75	0.55
24:BA:410:G:H8	24:BA:410:G:O5'	1.89	0.55
24:BA:641:C:N4	24:BA:646:A:N6	2.54	0.55
24:BA:771:G:N1	24:BA:772:C:C4	2.74	0.55
24:BA:785:G:C4	24:BA:786:C:C5	2.94	0.55
24:BA:840:C:H4'	24:BA:1192:G:O2'	2.06	0.55
24:BA:945:A:C4'	24:BA:945:A:OP1	2.54	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:945:A:H2'	24:BA:946:G:C5'	2.36	0.55
24:BA:960:A:C4	24:BA:962:G:C8	2.94	0.55
25:BB:33:G:H2'	25:BB:34:U:C5	2.38	0.55
25:BB:57:A:O4'	30:BG:29:TRP:CH2	2.59	0.55
27:BD:133:LEU:CB	27:BD:136:ILE:HD11	2.26	0.55
24:BA:2216:G:H21	27:BD:150:LYS:NZ	2.02	0.55
24:BA:1566:A:C2	27:BD:215:LEU:HD22	2.41	0.55
27:BD:63:ARG:HD3	27:BD:65:ILE:HD11	1.88	0.55
28:BE:147:PRO:HD2	28:BE:148:GLY:H	1.72	0.55
28:BE:170:LEU:N	28:BE:170:LEU:CD2	2.67	0.55
24:BA:37:C:O2'	29:BF:50:SER:CB	2.54	0.55
29:BF:71:GLY:O	29:BF:73:ALA:N	2.31	0.55
30:BG:128:ARG:CZ	30:BG:130:ASN:HD21	2.19	0.55
30:BG:110:ALA:CB	30:BG:139:LEU:HG	2.31	0.55
30:BG:148:MET:HG2	30:BG:151:ALA:H	1.70	0.55
30:BG:76:SER:O	30:BG:82:LEU:O	2.24	0.55
31:BH:74:ASN:ND2	31:BH:75:ALA:N	2.53	0.55
31:BH:76:VAL:HA	31:BH:79:VAL:CG2	2.36	0.55
31:BH:7:LEU:HB2	31:BH:52:VAL:O	2.06	0.55
33:BL:99:ILE:HG22	33:BL:100:THR:N	2.21	0.55
33:BL:105:LEU:N	33:BL:105:LEU:HD23	2.20	0.55
24:BA:558:G:H5''	34:BM:109:LYS:CD	2.37	0.55
35:BN:63:VAL:HG12	35:BN:99:PHE:CZ	2.41	0.55
36:BO:124:LYS:HA	36:BO:138:LEU:HD23	1.87	0.55
38:BQ:104:ARG:NH2	38:BQ:107:ASP:OD1	2.38	0.55
38:BQ:24:GLN:O	38:BQ:25:ALA:C	2.44	0.55
38:BQ:33:ARG:NH2	51:B4:56:LYS:HE2	2.21	0.55
38:BQ:45:ARG:O	38:BQ:46:GLY:C	2.42	0.55
39:BR:106:ARG:CD	39:BR:107:GLU:OE2	2.54	0.55
35:BN:75:SER:O	40:BS:77:PRO:O	2.23	0.55
40:BS:85:LYS:HZ3	40:BS:85:LYS:N	2.04	0.55
43:BV:33:ARG:NE	43:BV:33:ARG:HA	2.14	0.55
44:BW:26:TYR:CB	44:BW:28:PHE:CZ	2.88	0.55
45:BX:37:VAL:CG1	45:BX:64:GLU:HG2	2.34	0.55
46:BY:104:PHE:HD2	46:BY:104:PHE:N	2.03	0.55
46:BY:56:VAL:HG13	46:BY:133:ILE:CD1	2.36	0.55
46:BY:5:LEU:HB2	46:BY:23:LYS:HZ3	1.71	0.55
26:BC:103:ILE:CD1	26:BC:110:PHE:HZ	2.20	0.55
26:BC:83:ILE:HD11	26:BC:95:GLY:HA2	1.88	0.55
2:A1:10:U:O2	2:A1:12:U:H5''	2.06	0.55
2:A1:31:U:O2'	2:A1:32:U:H5'	2.07	0.55
1:AA:1014:A:H4'	21:AV:14:HIS:ND1	2.20	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1269:A:H5'	1:AA:1326:C:H4'	1.87	0.55
1:AA:1494:G:O2'	1:AA:1495:U:C6	2.57	0.55
1:AA:815:A:C2	1:AA:1529:G:N2	2.74	0.55
1:AA:277:C:OP2	19:AT:41:LYS:NZ	2.34	0.55
1:AA:378:G:H2'	1:AA:379:C:H6	1.71	0.55
1:AA:529:G:H1	14:AO:49:ASN:CB	2.15	0.55
1:AA:60:A:H62	1:AA:110:C:H42	1.53	0.55
1:AA:679:C:H2'	1:AA:680:C:C6	2.40	0.55
1:AA:815:A:C8	1:AA:819:A:C2	2.94	0.55
1:AA:859:A:C2'	1:AA:860:A:C5'	2.84	0.55
1:AA:866:C:C5	1:AA:867:G:C1'	2.86	0.55
1:AA:945:G:N2	1:AA:1337:G:C2	2.75	0.55
3:AB:9:A:O2'	3:AB:45:U:H2'	2.06	0.55
4:AE:115:LEU:HD22	4:AE:145:LEU:HG	1.88	0.55
4:AE:75:LYS:NZ	4:AE:75:LYS:CA	2.69	0.55
4:AE:84:GLU:HA	4:AE:84:GLU:OE2	2.06	0.55
6:AG:21:LEU:CD1	6:AG:67:ILE:HG22	2.34	0.55
7:AH:102:ALA:CB	7:AH:120:THR:HG22	2.32	0.55
7:AH:106:PRO:HG3	7:AH:122:GLU:OE2	2.07	0.55
7:AH:91:LEU:HG	7:AH:92:LYS:N	2.21	0.55
8:AI:55:ASP:OD2	8:AI:86:ARG:NH1	2.39	0.55
9:AJ:111:ARG:CZ	9:AJ:112:PRO:HD2	2.36	0.55
9:AJ:49:ILE:H	9:AJ:49:ILE:HD12	1.72	0.55
10:AK:114:THR:C	10:AK:116:LYS:H	2.09	0.55
10:AK:19:VAL:HB	10:AK:21:LYS:CG	2.35	0.55
11:AL:78:LYS:NZ	11:AL:101:PHE:HE2	1.96	0.55
11:AL:17:VAL:HG11	11:AL:81:ILE:HA	1.88	0.55
11:AL:81:ILE:O	11:AL:84:ALA:HB3	2.07	0.55
12:AM:28:ARG:HG2	12:AM:28:ARG:HH11	1.71	0.55
13:AN:112:THR:O	13:AN:112:THR:HG22	2.06	0.55
13:AN:83:ILE:HD12	13:AN:83:ILE:N	2.21	0.55
1:AA:562:C:O2	14:AO:15:ARG:O	2.23	0.55
14:AO:5:PRO:O	14:AO:6:THR:OG1	2.23	0.55
18:AS:18:ARG:HH11	18:AS:20:VAL:HG21	1.71	0.55
18:AS:52:ASP:C	18:AS:52:ASP:OD2	2.45	0.55
19:AT:66:SER:HB3	19:AT:69:LYS:HZ3	1.70	0.55
21:AV:47:HIS:O	21:AV:61:TYR:HA	2.06	0.55
48:B1:41:GLN:O	48:B1:44:LYS:N	2.39	0.55
53:B6:43:THR:O	53:B6:46:VAL:CB	2.54	0.55
53:B6:5:TRP:CE3	53:B6:5:TRP:HA	2.42	0.55
24:BA:1024:G:C3'	24:BA:1025:G:H5''	2.35	0.55
24:BA:1034:G:C6	24:BA:1035:U:C4	2.95	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:108:U:H2'	24:BA:109:G:H8	1.71	0.55
24:BA:1163:G:C6	24:BA:1164:G:N7	2.74	0.55
24:BA:1221:C:N3	24:BA:1229:G:N1	2.54	0.55
24:BA:1269:A:O5'	24:BA:1269:A:H8	1.90	0.55
24:BA:1344:G:H4'	24:BA:1384:A:C6	2.41	0.55
24:BA:1392:A:H2'	24:BA:1393:A:C8	2.42	0.55
24:BA:141:A:H2	24:BA:1597:A:H5'	1.71	0.55
24:BA:1565:C:C4	24:BA:1567:A:C8	2.94	0.55
24:BA:1698:A:O2'	24:BA:1699:G:P	2.65	0.55
24:BA:1780:A:O5'	24:BA:1781:C:H3'	2.06	0.55
24:BA:1780:A:P	24:BA:1782:C:OP1	2.64	0.55
24:BA:1784:A:H4'	24:BA:1785:A:C8	2.42	0.55
24:BA:1826:G:N2	24:BA:1970:A:C2	2.73	0.55
24:BA:1842:G:O2'	24:BA:1843:C:C5'	2.54	0.55
24:BA:18:C:H4'	41:BT:23:GLY:O	2.06	0.55
24:BA:1954:G:H2'	24:BA:1956:U:O4	2.06	0.55
24:BA:197:A:H3'	24:BA:198:C:H6	1.67	0.55
24:BA:2041:U:O2	24:BA:2042:A:C8	2.60	0.55
24:BA:2047:U:O2'	24:BA:2048:G:O5'	2.24	0.55
24:BA:2051:A:C6	24:BA:2614:A:C6	2.94	0.55
24:BA:2346:A:H5'	24:BA:2383:G:O4'	2.06	0.55
24:BA:2287:A:C2	24:BA:2346:A:N6	2.74	0.55
24:BA:236:C:N3	24:BA:237:C:C5	2.74	0.55
24:BA:2436:G:C5	24:BA:2437:U:C4	2.94	0.55
24:BA:2437:U:C2	24:BA:2438:U:C5	2.94	0.55
24:BA:2520:C:H2'	24:BA:2521:C:H6	1.71	0.55
24:BA:2530:A:H3'	24:BA:2531:A:H5''	1.85	0.55
24:BA:2595:G:N3	24:BA:2599:G:N1	2.54	0.55
24:BA:270(E):G:OP2	24:BA:270(E):G:C8	2.60	0.55
24:BA:270(X):G:C2	24:BA:270(Y):G:H1'	2.41	0.55
24:BA:2717:G:C2	24:BA:2718:G:C5	2.94	0.55
24:BA:2815:C:C2	24:BA:2816:C:C5	2.94	0.55
24:BA:2825:C:C4	24:BA:2826:A:N7	2.74	0.55
24:BA:2895:U:H2'	24:BA:2896:C:H6	1.71	0.55
24:BA:475:U:OP2	24:BA:475:U:C6	2.59	0.55
24:BA:662:G:N1	24:BA:663:G:O6	2.39	0.55
24:BA:714:U:O2	24:BA:715:G:H8	1.89	0.55
24:BA:754:C:O2'	24:BA:755:C:H5'	2.05	0.55
24:BA:775:G:N2	24:BA:788:A:OP2	2.38	0.55
24:BA:824:A:C3'	24:BA:825:C:C5	2.89	0.55
24:BA:833:U:C1'	36:BO:48:PRO:HD2	2.36	0.55
24:BA:86:C:O5'	24:BA:86:C:H6	1.89	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:887:A:O3'	24:BA:889:C:H5'	2.06	0.55
24:BA:848:G:C2	24:BA:931:G:O6	2.58	0.55
25:BB:61:G:C6	25:BB:62:C:N4	2.74	0.55
25:BB:77:U:H5	25:BB:98:G:N2	2.04	0.55
25:BB:7:G:O2'	25:BB:8:U:OP1	2.25	0.55
27:BD:150:LYS:O	27:BD:152:GLY:N	2.39	0.55
27:BD:260:ARG:HB2	27:BD:260:ARG:HH11	1.71	0.55
27:BD:28:GLU:N	27:BD:29:PRO:CD	2.70	0.55
27:BD:54:ARG:C	27:BD:219:PRO:CD	2.74	0.55
27:BD:5:LYS:HE2	27:BD:29:PRO:HA	1.88	0.55
27:BD:77:ALA:HB1	27:BD:95:LEU:CG	2.36	0.55
28:BE:105:THR:HB	28:BE:166:THR:OG1	2.05	0.55
28:BE:113:PHE:CA	28:BE:158:GLY:HA2	2.35	0.55
28:BE:171:GLU:OE1	28:BE:172:VAL:HG22	2.05	0.55
29:BF:16:GLY:C	29:BF:17:ARG:HD3	2.27	0.55
29:BF:196:LEU:HD22	29:BF:199:TRP:NE1	2.21	0.55
30:BG:20:ILE:HG22	30:BG:21:ARG:N	2.22	0.55
30:BG:80:PHE:HD1	30:BG:81:LYS:H	1.44	0.55
31:BH:107:VAL:O	31:BH:107:VAL:CG2	2.54	0.55
31:BH:33:LEU:HD22	31:BH:35:VAL:HG22	1.89	0.55
31:BH:95:ARG:N	31:BH:95:ARG:HD2	2.20	0.55
32:BK:5:LEU:HD21	32:BK:18:VAL:HA	1.87	0.55
32:BK:9:LEU:HG	32:BK:17:GLN:OE1	2.06	0.55
34:BM:126:PRO:O	34:BM:127:ASP:CB	2.53	0.55
34:BM:54:VAL:C	34:BM:130:HIS:NE2	2.59	0.55
34:BM:39:ARG:HG2	34:BM:40:PRO:CD	2.36	0.55
34:BM:4:TYR:CZ	41:BT:101:ARG:CZ	2.88	0.55
34:BM:99:LEU:CG	34:BM:100:GLU:N	2.69	0.55
24:BA:2000:G:OP2	38:BQ:2:ARG:HG2	2.06	0.55
40:BS:113:LYS:O	40:BS:116:ALA:N	2.39	0.55
40:BS:30:VAL:C	40:BS:32:TYR:OH	2.44	0.55
24:BA:2848:G:C1'	40:BS:99:LEU:HD21	2.37	0.55
41:BT:49:HIS:HA	41:BT:52:ARG:NE	2.20	0.55
41:BT:52:ARG:C	41:BT:54:LYS:N	2.59	0.55
42:BU:6:LYS:CD	42:BU:10:LYS:HG2	2.27	0.55
41:BT:47:TYR:CZ	42:BU:76:LYS:O	2.59	0.55
43:BV:86:LEU:HB3	43:BV:87:PRO:HD2	1.88	0.55
24:BA:64:A:HO2'	44:BW:71:GLY:HA3	1.71	0.55
46:BY:127:LYS:HA	46:BY:164:ALA:N	2.21	0.55
32:BK:123:LEU:CD1	32:BK:144:VAL:HG13	2.36	0.55
3:AD:21:A:N1	3:AD:46:G:N2	2.42	0.55
1:AA:1065:U:C5	1:AA:1190:G:H1'	2.42	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1452:C:H5'	1:AA:1453:G:N3	2.22	0.55
1:AA:170:U:O2'	1:AA:171:A:H5'	2.07	0.55
1:AA:319:G:C2'	1:AA:320:C:H5'	2.36	0.55
1:AA:352:C:C6	1:AA:352:C:OP1	2.60	0.55
1:AA:483:C:H6	1:AA:483:C:O5'	1.88	0.55
1:AA:521:G:O6	14:AO:49:ASN:ND2	2.40	0.55
1:AA:624:C:H2'	1:AA:625:G:C8	2.38	0.55
1:AA:575:G:N1	1:AA:821:G:N7	2.53	0.55
1:AA:902:G:H2'	1:AA:903:G:H8	1.70	0.55
3:AB:13:C:H2'	3:AB:14:A:C5'	2.35	0.55
3:AB:30:G:O2'	3:AB:31:A:H5'	2.06	0.55
3:AB:34:G:N1	3:AB:35:A:H1'	2.19	0.55
3:AC:10:G:C8	3:AC:10:G:O5'	2.59	0.55
3:AD:70:G:H2'	3:AD:71:G:H8	1.70	0.55
4:AE:101:MET:C	4:AE:103:THR:N	2.59	0.55
4:AE:147:LYS:CA	4:AE:147:LYS:HE2	2.36	0.55
4:AE:54:THR:HG23	4:AE:199:TYR:CB	2.36	0.55
4:AE:69:LEU:HD22	4:AE:91:PRO:CB	2.36	0.55
5:AF:65:ALA:O	5:AF:66:VAL:HB	2.06	0.55
6:AG:100:ARG:HH22	6:AG:137:SER:CA	2.13	0.55
6:AG:171:GLY:HA3	6:AG:173:TRP:HZ3	1.71	0.55
6:AG:20:TYR:HB2	6:AG:27:TYR:CA	2.36	0.55
7:AH:105:VAL:HG12	7:AH:106:PRO:CD	2.36	0.55
7:AH:118:ILE:C	7:AH:119:LEU:CD2	2.74	0.55
8:AI:14:LEU:CD1	8:AI:19:LEU:N	2.66	0.55
8:AI:36:ARG:HB2	8:AI:36:ARG:NH1	2.20	0.55
9:AJ:75:VAL:CG2	9:AJ:88:PRO:HB3	2.36	0.55
10:AK:23:SER:O	10:AK:24:THR:HB	2.07	0.55
13:AN:100:ALA:C	13:AN:102:GLY:N	2.59	0.55
14:AO:45:PRO:HG2	14:AO:49:ASN:O	2.06	0.55
15:AP:87:TYR:HD1	21:AV:73:GLU:CB	2.19	0.55
17:AR:79:ARG:HA	17:AR:82:ILE:HG13	1.86	0.55
19:AT:104:LYS:CG	19:AT:105:ALA:H	2.19	0.55
19:AT:44:ALA:HB1	19:AT:71:PHE:O	2.06	0.55
19:AT:87:LYS:O	19:AT:91:ARG:HB3	2.06	0.55
21:AV:11:VAL:HG13	21:AV:38:SER:OG	2.06	0.55
21:AV:40:ILE:HD11	21:AV:71:LEU:HD23	1.88	0.55
22:AW:53:LEU:HD21	22:AW:92:LEU:CD1	2.37	0.55
48:B1:63:ARG:HH21	48:B1:63:ARG:HB3	1.71	0.55
24:BA:988:A:H5"	49:B2:10:LYS:HE3	1.87	0.55
49:B2:40:THR:O	49:B2:41:PRO:C	2.40	0.55
51:B4:20:ARG:HA	51:B4:23:HIS:HD2	1.70	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:B4:51:TYR:CD1	51:B4:55:ARG:N	2.75	0.55
54:B7:23:VAL:HG11	54:B7:46:ARG:HB3	1.87	0.55
24:BA:594:U:C5'	54:B7:61:LEU:HD13	2.33	0.55
54:B7:7:HIS:C	54:B7:11:LYS:HE3	2.26	0.55
24:BA:1015:G:O2'	24:BA:1016:G:H5'	2.06	0.55
24:BA:1134:G:C5	24:BA:1136:G:OP2	2.59	0.55
24:BA:1179:C:OP2	24:BA:1179:C:H6	1.90	0.55
24:BA:1201:C:N4	24:BA:1241:A:H62	2.04	0.55
24:BA:1256:G:C5	24:BA:1257:C:C5	2.94	0.55
24:BA:1540:G:C2'	24:BA:1541:U:H5'	2.36	0.55
24:BA:1655:A:H61	24:BA:2005:A:C1'	2.18	0.55
24:BA:1670:C:C6	24:BA:1671:U:C5	2.94	0.55
24:BA:1742:C:C6	24:BA:1743:G:H5''	2.41	0.55
24:BA:1749:A:O2'	24:BA:1750:G:H5'	2.05	0.55
24:BA:179:G:H3'	24:BA:180:G:H8	1.70	0.55
24:BA:1811:G:H2'	24:BA:1812:A:O4'	2.06	0.55
24:BA:1818:U:C2'	24:BA:1818:U:O2	2.55	0.55
3:AD:71:G:H1'	24:BA:1851:U:O2'	2.06	0.55
24:BA:1912:A:H8	24:BA:1913:A:H1'	1.70	0.55
24:BA:1655:A:N6	24:BA:2005:A:O2'	2.39	0.55
24:BA:2066:C:C4	24:BA:2067:G:N7	2.74	0.55
24:BA:2266:A:C5'	24:BA:2267:A:N3	2.66	0.55
24:BA:2300:G:O2'	24:BA:2301:C:H5'	2.07	0.55
24:BA:2347:C:C5	24:BA:2382:G:H1'	2.41	0.55
24:BA:2529:G:H5''	24:BA:2530:A:C5'	2.37	0.55
24:BA:257:A:O2'	24:BA:258:G:H5'	2.06	0.55
24:BA:2748:A:N6	24:BA:2756:U:C2	2.74	0.55
24:BA:2756:U:O2'	24:BA:2757:A:C5'	2.55	0.55
24:BA:108:U:H4'	24:BA:348:G:C2	2.41	0.55
24:BA:526:A:C2	24:BA:2626:C:O4'	2.58	0.55
24:BA:558:G:O2'	24:BA:559:G:H5''	2.07	0.55
24:BA:559:G:O2'	24:BA:560:C:O5'	2.16	0.55
24:BA:62:C:O5'	24:BA:62:C:H6	1.90	0.55
24:BA:641:C:O2'	24:BA:642:G:H5'	2.06	0.55
24:BA:722:A:N3	24:BA:723:G:C8	2.75	0.55
24:BA:740:U:HO2'	24:BA:741:G:P	2.24	0.55
24:BA:749:C:C6	24:BA:749:C:C3'	2.90	0.55
24:BA:754:C:N3	24:BA:755:C:C5	2.75	0.55
24:BA:768:G:O2'	24:BA:769:G:H5'	2.07	0.55
24:BA:838:C:N3	24:BA:941:A:N7	2.54	0.55
24:BA:850:C:H5''	49:B2:18:ASP:HB2	1.88	0.55
24:BA:873:G:C2	24:BA:874:G:H1'	2.42	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:922:U:H2'	24:BA:923:C:C6	2.41	0.55
25:BB:80:U:C2	25:BB:81:G:N7	2.74	0.55
25:BB:82:G:C2	25:BB:83:G:N7	2.74	0.55
27:BD:160:GLY:C	27:BD:196:VAL:HG21	2.26	0.55
27:BD:226:MET:HE2	27:BD:237:GLU:H	1.70	0.55
24:BA:2597:G:H5'	27:BD:242:ARG:CD	2.36	0.55
27:BD:5:LYS:O	27:BD:27:THR:CG2	2.54	0.55
27:BD:75:ILE:O	27:BD:76:PRO:C	2.42	0.55
27:BD:7:LYS:CD	27:BD:25:THR:HG22	2.36	0.55
28:BE:148:GLY:O	28:BE:149:ARG:CB	2.54	0.55
28:BE:51:PHE:HZ	28:BE:75:VAL:HG22	1.66	0.55
28:BE:53:PRO:CG	28:BE:75:VAL:HG22	2.31	0.55
28:BE:48:GLN:O	28:BE:77:ILE:HG13	2.05	0.55
29:BF:18:ARG:HG3	29:BF:19:GLU:N	2.21	0.55
30:BG:9:ARG:HD2	30:BG:10:LYS:CE	2.37	0.55
30:BG:62:LEU:HD23	30:BG:143:GLU:HB3	1.86	0.55
31:BH:6:ARG:O	31:BH:69:ARG:HD2	2.06	0.55
34:BM:24:GLY:O	34:BM:27:ALA:N	2.40	0.55
35:BN:64:ARG:HH11	35:BN:67:LYS:CA	2.16	0.55
37:BP:8:LYS:HZ3	37:BP:11:LYS:HE2	1.71	0.55
37:BP:34:LEU:HD21	37:BP:118:LEU:HD22	1.88	0.55
38:BQ:45:ARG:CG	38:BQ:46:GLY:N	2.68	0.55
39:BR:17:ARG:NH1	39:BR:25:ARG:HD2	2.21	0.55
39:BR:24:LEU:HG	39:BR:41:ASP:HA	1.87	0.55
39:BR:76:LYS:HG2	39:BR:77:ALA:N	2.20	0.55
39:BR:93:LYS:O	39:BR:98:VAL:CG1	2.54	0.55
35:BN:122:LEU:C	40:BS:74:ARG:HH22	2.09	0.55
40:BS:28:VAL:HG13	40:BS:92:GLY:C	2.26	0.55
41:BT:111:GLU:CG	41:BT:112:ARG:N	2.70	0.55
41:BT:50:ARG:NE	42:BU:75:PHE:CD2	2.74	0.55
41:BT:65:ILE:HG21	41:BT:95:LEU:HB2	1.88	0.55
41:BT:91:ASP:CG	42:BU:10:LYS:HD3	2.27	0.55
42:BU:67:GLY:O	42:BU:68:LYS:CB	2.47	0.55
43:BV:16:LYS:HA	43:BV:19:LEU:HD12	1.88	0.55
43:BV:12:ILE:HD12	43:BV:46:PHE:CE2	2.41	0.55
43:BV:98:LYS:C	43:BV:98:LYS:HZ3	2.06	0.55
44:BW:29:TRP:CB	44:BW:76:ARG:HH21	2.19	0.55
44:BW:85:PRO:CB	44:BW:87:GLN:HE21	2.19	0.55
46:BY:50:GLN:C	46:BY:52:SER:H	2.10	0.55
46:BY:99:TYR:CE1	46:BY:124:ILE:HB	2.41	0.55
32:BK:109:ILE:CG2	32:BK:113:ARG:NH2	2.69	0.55
1:AA:1171:G:H2'	1:AA:1172:C:C5	2.40	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:A1:51:U:O2'	2:A1:52:U:O5'	2.23	0.55
1:AA:1213:A:N6	1:AA:1215:G:C2	2.74	0.55
1:AA:1452:C:H4'	1:AA:1453:G:H5''	1.89	0.55
1:AA:179:A:H3'	1:AA:180:U:C6	2.41	0.55
1:AA:266:G:N2	1:AA:270:A:N6	2.53	0.55
1:AA:308:C:H2'	1:AA:309:G:O5'	2.07	0.55
1:AA:38:G:O2'	1:AA:39:G:H5''	2.07	0.55
1:AA:558:G:O5'	1:AA:559:A:H3'	2.06	0.55
1:AA:706:A:H4'	13:AN:29:ILE:HD13	1.88	0.55
1:AA:713:G:H2'	1:AA:714:G:N7	2.20	0.55
1:AA:717:C:C2'	1:AA:718:G:OP2	2.55	0.55
1:AA:766:A:H2'	1:AA:767:A:H8	1.70	0.55
1:AA:858:G:O5'	1:AA:858:G:H8	1.89	0.55
1:AA:902:G:HO2'	1:AA:903:G:H5'	1.68	0.55
1:AA:917:G:O2'	1:AA:918:A:C5'	2.54	0.55
1:AA:939:G:N2	1:AA:940:C:C2	2.75	0.55
1:AA:975:A:C8	1:AA:1365:G:N2	2.74	0.55
1:AA:978:A:H8	1:AA:980:C:N4	2.05	0.55
3:AD:76:A:N7	24:BA:2432:A:C4	2.75	0.55
4:AE:102:LEU:CB	4:AE:180:LEU:CD1	2.84	0.55
4:AE:121:LEU:HD22	4:AE:126:GLU:OE2	2.06	0.55
4:AE:208:ILE:CA	4:AE:211:ILE:HB	2.35	0.55
4:AE:221:LEU:HD13	4:AE:222:ILE:N	2.21	0.55
4:AE:70:PHE:HB3	4:AE:163:PHE:HB3	1.87	0.55
6:AG:107:ARG:HD2	6:AG:174:LEU:HD11	1.89	0.55
6:AG:13:ARG:HB3	6:AG:40:PRO:HD3	1.89	0.55
7:AH:101:ILE:N	7:AH:101:ILE:HD13	2.22	0.55
7:AH:37:ARG:NH1	7:AH:112:LEU:N	2.55	0.55
1:AA:591:U:OP1	10:AK:30:ARG:CZ	2.54	0.55
1:AA:1342:C:C1'	11:AL:124:GLN:OE1	2.49	0.55
14:AO:86:ARG:HH22	14:AO:119:LYS:HG2	1.70	0.55
15:AP:88:ARG:NH2	15:AP:92:HIS:HD2	2.05	0.55
15:AP:99:ARG:NH1	15:AP:99:ARG:HG3	2.19	0.55
12:AM:65:LEU:CB	16:AQ:56:VAL:HG13	2.31	0.55
18:AS:6:LEU:N	18:AS:6:LEU:CD1	2.67	0.55
18:AS:7:ALA:HB3	18:AS:18:ARG:HB2	1.87	0.55
8:AI:95:GLU:C	20:AU:32:ARG:HG3	2.26	0.55
21:AV:12:ASP:C	21:AV:16:LEU:HD22	2.27	0.55
54:B7:8:LYS:N	54:B7:8:LYS:HE2	2.11	0.55
24:BA:1093:G:H21	24:BA:1098:A:N6	2.05	0.55
24:BA:1359:A:O5'	24:BA:1359:A:C8	2.60	0.55
24:BA:1455:G:C2'	24:BA:1456:G:H5'	2.37	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1471:A:N6	24:BA:1519:G:N2	2.48	0.55
24:BA:1520:U:C5	24:BA:1520:U:OP2	2.59	0.55
24:BA:1522:G:H3'	24:BA:1522:G:C8	2.41	0.55
24:BA:1680:U:H6	24:BA:1680:U:O5'	1.90	0.55
24:BA:1685:C:H2'	24:BA:1686:C:H6	1.72	0.55
24:BA:1708:C:C2'	24:BA:1709:U:C5'	2.79	0.55
24:BA:172:C:H2'	24:BA:173:G:C8	2.41	0.55
24:BA:1770:G:O2'	24:BA:1771:C:C5'	2.52	0.55
24:BA:1784:A:H4'	24:BA:1785:A:C1'	2.37	0.55
24:BA:1807:G:N2	24:BA:1809:A:H5'	2.22	0.55
24:BA:1834:U:C1'	24:BA:1969:A:H2	2.19	0.55
24:BA:1934:C:H5'	24:BA:1974:C:C4'	2.30	0.55
24:BA:1827:C:C1'	24:BA:1970:A:H2	2.20	0.55
24:BA:1135:C:HO2'	24:BA:2038:G:HO2'	1.53	0.55
24:BA:2286:A:N7	52:B5:31:PRO:HD2	2.21	0.55
24:BA:2309:A:H3'	24:BA:2309:A:N3	2.21	0.55
24:BA:2366:A:N6	24:BA:2367:G:C2	2.74	0.55
24:BA:2443:C:C2	24:BA:2444:G:C8	2.95	0.55
24:BA:2570:G:N2	24:BA:2571:C:N1	2.54	0.55
24:BA:2074:U:HO2'	24:BA:2598:A:H1'	1.71	0.55
24:BA:2617:C:N3	24:BA:2618:G:C8	2.74	0.55
24:BA:2637:U:OP2	24:BA:2637:U:H6	1.87	0.55
24:BA:2688:U:H1'	24:BA:2721:A:N6	2.21	0.55
24:BA:2822:G:N7	38:BQ:4:LEU:HD21	2.21	0.55
24:BA:2881:C:OP1	38:BQ:90:ARG:NH1	2.40	0.55
24:BA:424:G:C2'	24:BA:425:G:H5'	2.35	0.55
24:BA:513:A:C2	24:BA:514:A:H8	2.24	0.55
24:BA:740:U:H2'	24:BA:741:G:O5'	2.04	0.55
24:BA:783:A:C6	24:BA:785:G:C8	2.95	0.55
24:BA:687:C:O2	24:BA:788:A:P	2.63	0.55
24:BA:947:G:C2'	24:BA:948:G:H5'	2.36	0.55
24:BA:949:C:C2	24:BA:950:G:N7	2.74	0.55
24:BA:819:A:C8	24:BA:973:A:C2	2.94	0.55
25:BB:43:C:O2	30:BG:95:ARG:CB	2.49	0.55
25:BB:48:A:O3'	39:BR:95:HIS:CE1	2.59	0.55
27:BD:102:LYS:O	27:BD:103:ARG:HG3	2.06	0.55
27:BD:126:GLN:O	27:BD:126:GLN:HG3	2.06	0.55
27:BD:132:PRO:O	27:BD:133:LEU:O	2.25	0.55
27:BD:165:ILE:HD12	27:BD:165:ILE:N	2.21	0.55
27:BD:225:ALA:O	27:BD:226:MET:C	2.44	0.55
27:BD:236:GLY:O	27:BD:237:GLU:HG2	2.05	0.55
27:BD:29:PRO:CB	27:BD:31:LYS:NZ	2.70	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:779:U:OP1	27:BD:50:THR:HB	2.07	0.55
28:BE:166:THR:OG1	28:BE:167:VAL:N	2.36	0.55
28:BE:30:PRO:HB2	28:BE:48:GLN:CB	2.30	0.55
28:BE:4:ILE:HG13	28:BE:27:LEU:CD1	2.34	0.55
29:BF:182:ASN:OD1	29:BF:185:ASP:OD1	2.23	0.55
29:BF:37:VAL:HA	29:BF:184:TYR:CE2	2.41	0.55
24:BA:2306:C:OP1	30:BG:136:ARG:CD	2.53	0.55
30:BG:74:LYS:HB3	30:BG:87:PRO:CG	2.36	0.55
31:BH:152:ARG:HH21	31:BH:152:ARG:HG3	1.71	0.55
31:BH:162:ILE:C	31:BH:163:TYR:CD1	2.80	0.55
31:BH:38:SER:HB3	31:BH:41:MET:SD	2.46	0.55
31:BH:40:GLU:O	31:BH:55:PRO:HD3	2.07	0.55
32:BK:9:LEU:HG	32:BK:17:GLN:NE2	2.21	0.55
33:BL:71:THR:HG1	33:BL:114:ASP:HB3	1.70	0.55
33:BL:112:MET:HE1	33:BL:118:THR:C	2.27	0.55
33:BL:129:GLY:O	33:BL:132:ARG:HB2	2.06	0.55
34:BM:124:ALA:C	34:BM:125:GLY:O	2.38	0.55
35:BN:64:ARG:NH1	35:BN:66:LYS:H	2.04	0.55
37:BP:19:GLY:O	37:BP:20:ALA:HB3	2.06	0.55
37:BP:33:GLY:C	37:BP:34:LEU:HD23	2.26	0.55
37:BP:35:VAL:O	37:BP:35:VAL:HG13	2.06	0.55
37:BP:43:THR:OG1	37:BP:45:GLN:HB2	2.07	0.55
40:BS:23:ARG:NH2	40:BS:88:ILE:O	2.40	0.55
24:BA:519:U:H4'	43:BV:75:TYR:HB2	1.88	0.55
45:BX:19:LYS:HD2	45:BX:40:GLU:OE1	2.06	0.55
45:BX:7:VAL:CG1	45:BX:71:LYS:HB3	2.32	0.55
46:BY:102:LEU:CD1	46:BY:137:ILE:HG22	2.36	0.55
24:BA:2132:U:C3'	24:BA:2133:G:C5'	2.68	0.55
26:BC:4:GLY:O	26:BC:5:LYS:HG3	2.06	0.55
26:BC:64:LEU:HD11	26:BC:161:ILE:HG12	1.86	0.55
26:BC:6:ARG:C	26:BC:8:ARG:N	2.57	0.55
1:AA:1113:C:C2	1:AA:1114:C:C6	2.94	0.55
1:AA:110:C:C2'	1:AA:111:G:H5'	2.37	0.55
1:AA:1158:C:C2'	1:AA:1158:C:O2	2.54	0.55
1:AA:266:G:N2	1:AA:270:A:H62	2.05	0.55
1:AA:327:A:C2	1:AA:329:A:C4	2.95	0.55
1:AA:32:A:H2'	1:AA:33:A:C8	2.41	0.55
1:AA:34:C:O2'	1:AA:35:G:C5'	2.51	0.55
1:AA:355:C:C2	1:AA:356:A:N7	2.75	0.55
1:AA:465:A:N7	1:AA:467:G:N1	2.53	0.55
1:AA:558:G:C3'	1:AA:559:A:C5'	2.72	0.55
1:AA:574:A:H8	1:AA:574:A:O5'	1.89	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:594:G:N7	1:AA:595:G:N3	2.55	0.55
1:AA:643:C:H5'	10:AK:31:PHE:CZ	2.42	0.55
1:AA:781:A:O2'	1:AA:782:A:OP1	2.24	0.55
3:AB:34:G:C2	3:AB:35:A:C1'	2.79	0.55
3:AC:15:G:N2	3:AC:48:C:H42	1.99	0.55
3:AD:32:U:H1'	9:AJ:86:GLN:NE2	2.21	0.55
4:AE:105:PHE:CD1	4:AE:108:ILE:HB	2.42	0.55
4:AE:115:LEU:HD13	4:AE:145:LEU:HG	1.88	0.55
5:AF:155:GLY:O	5:AF:196:LEU:HB2	2.06	0.55
5:AF:40:ARG:NH1	5:AF:40:ARG:HG3	2.22	0.55
5:AF:5:ILE:N	5:AF:5:ILE:HD12	2.21	0.55
6:AG:50:ARG:CG	6:AG:51:PRO:HD2	2.23	0.55
6:AG:79:PHE:O	6:AG:80:GLU:C	2.45	0.55
7:AH:43:LEU:HD23	7:AH:44:GLY:CA	2.36	0.55
8:AI:50:TYR:CE1	20:AU:81:PHE:CE2	2.95	0.55
9:AJ:78:ARG:O	9:AJ:84:ASN:CA	2.29	0.55
10:AK:44:PHE:O	10:AK:64:LYS:CD	2.55	0.55
10:AK:82:HIS:CD2	10:AK:138:TRP:HE1	2.25	0.55
11:AL:15:ALA:CB	11:AL:77:ILE:N	2.70	0.55
1:AA:1060:C:H4'	12:AM:52:GLY:HA2	1.87	0.55
13:AN:85:ARG:HD2	13:AN:113:PRO:HD2	1.89	0.55
14:AO:7:ILE:HB	14:AO:8:ASN:HD22	1.70	0.55
15:AP:59:TYR:CD2	15:AP:60:VAL:N	2.75	0.55
12:AM:49:VAL:CG1	16:AQ:41:ARG:HD2	2.24	0.55
17:AR:31:LEU:HD12	17:AR:31:LEU:N	2.21	0.55
19:AT:48:GLU:OE1	19:AT:50:LYS:HB2	2.07	0.55
23:AX:3:LYS:O	23:AX:14:TRP:CE3	2.60	0.55
50:B3:42:PHE:CE2	50:B3:43:TYR:O	2.60	0.55
51:B4:44:THR:N	51:B4:52:TYR:OH	2.39	0.55
53:B6:14:LYS:O	53:B6:15:THR:C	2.45	0.55
36:BO:56:SER:CB	54:B7:13:ARG:NE	2.69	0.55
55:B8:10:ILE:HD13	55:B8:14:CYS:SG	2.47	0.55
55:B8:22:ARG:HB3	55:B8:24:TYR:CE1	2.42	0.55
24:BA:1000:A:N1	24:BA:1155:A:C4	2.74	0.55
24:BA:83:G:C6	24:BA:102:G:H1'	2.42	0.55
24:BA:1073:A:N7	24:BA:1074:G:C5	2.75	0.55
24:BA:1062:G:C6	24:BA:1077:A:C4	2.94	0.55
24:BA:1144:G:C4	24:BA:1145:C:C5	2.94	0.55
24:BA:1183:G:P	24:BA:1183:G:H3'	2.47	0.55
24:BA:1419:A:C3'	24:BA:1420:U:O4'	2.55	0.55
24:BA:1428:C:N4	24:BA:1569:A:H5''	2.22	0.55
24:BA:1470:G:C8	24:BA:1470:G:C3'	2.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1540:G:C4	24:BA:1541:U:H1'	2.41	0.55
24:BA:1791:A:H4'	27:BD:206:LEU:HD23	1.88	0.55
24:BA:1917:U:H3'	24:BA:1917:U:H6	1.71	0.55
24:BA:1930:G:C2'	24:BA:1931:U:OP2	2.55	0.55
24:BA:1936:A:O4'	24:BA:1940:U:C4	2.59	0.55
24:BA:2197:U:OP2	24:BA:2197:U:H3'	2.07	0.55
24:BA:2211:G:H21	24:BA:2212:A:C5'	2.19	0.55
24:BA:2458:G:C8	24:BA:2490:G:O6	2.60	0.55
24:BA:2523:G:H1'	24:BA:2765:A:N6	2.21	0.55
24:BA:2740:A:C6	24:BA:2741:A:N6	2.74	0.55
24:BA:2747:G:C2	24:BA:2754:U:N3	2.75	0.55
24:BA:2740:A:N6	24:BA:2764:A:N9	2.54	0.55
24:BA:328:U:H6	24:BA:328:U:O5'	1.90	0.55
24:BA:458:G:OP1	53:B6:39:ARG:NH1	2.40	0.55
24:BA:619:G:C3'	24:BA:619:G:C8	2.89	0.55
24:BA:763:G:C2'	24:BA:764:A:C5'	2.83	0.55
24:BA:836:G:C5	24:BA:837:C:N4	2.75	0.55
24:BA:838:C:C4	24:BA:839:U:C4	2.94	0.55
24:BA:866:A:N7	24:BA:914:C:O2	2.40	0.55
24:BA:820:A:N7	24:BA:973:A:C6	2.75	0.55
25:BB:74:U:H2'	25:BB:75:G:C1'	2.36	0.55
27:BD:157:ARG:O	27:BD:160:GLY:N	2.40	0.55
24:BA:1819:A:C5'	27:BD:178:PRO:HG3	2.21	0.55
27:BD:221:VAL:O	27:BD:222:ARG:CG	2.52	0.55
27:BD:244:ARG:HA	27:BD:252:TRP:NE1	2.22	0.55
28:BE:133:LYS:HZ2	28:BE:137:HIS:HB3	1.66	0.55
24:BA:2052:G:O5'	28:BE:141:ILE:HG13	2.07	0.55
28:BE:45:THR:HG1	28:BE:46:ALA:H	1.54	0.55
28:BE:55:ASN:ND2	28:BE:73:GLU:HG3	2.22	0.55
29:BF:32:LEU:HD11	29:BF:105:VAL:HG11	1.88	0.55
29:BF:43:LYS:HG3	29:BF:98:SER:CA	2.36	0.55
30:BG:12:TYR:C	30:BG:12:TYR:CD1	2.80	0.55
30:BG:140:ILE:HG22	30:BG:141:PHE:CD1	2.41	0.55
30:BG:36:LYS:HA	30:BG:95:ARG:O	2.07	0.55
31:BH:105:LEU:HD23	31:BH:105:LEU:H	1.68	0.55
31:BH:152:ARG:CZ	31:BH:152:ARG:HB2	2.37	0.55
32:BK:25:TYR:O	32:BK:30:LEU:HD23	2.07	0.55
34:BM:127:ASP:OD1	34:BM:128:HIS:ND1	2.39	0.55
34:BM:67:LEU:O	34:BM:68:GLU:CB	2.54	0.55
35:BN:89:ASN:ND2	35:BN:91:LEU:CB	2.67	0.55
36:BO:99:LEU:CD2	36:BO:101:VAL:HG13	2.35	0.55
37:BP:63:LYS:O	37:BP:106:VAL:HG13	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BQ:14:SER:HA	38:BQ:17:ARG:CD	2.36	0.55
38:BQ:59:ASP:OD1	38:BQ:62:ALA:N	2.39	0.55
38:BQ:63:ARG:HG2	38:BQ:63:ARG:HH11	1.71	0.55
38:BQ:88:ARG:O	38:BQ:89:ASP:CB	2.55	0.55
40:BS:64:ARG:NH2	40:BS:77:PRO:HB2	2.21	0.55
40:BS:85:LYS:HZ3	40:BS:85:LYS:H	1.55	0.55
24:BA:2020:A:OP2	41:BT:27:LEU:HD22	2.06	0.55
41:BT:37:GLU:O	41:BT:38:THR:C	2.44	0.55
41:BT:45:TYR:HB3	41:BT:49:HIS:CE1	2.40	0.55
41:BT:57:PHE:HA	41:BT:60:LEU:CD1	2.36	0.55
42:BU:60:GLU:OE1	42:BU:101:GLY:HA3	2.07	0.55
42:BU:40:LEU:N	42:BU:54:GLY:HA3	2.21	0.55
44:BW:15:GLU:O	44:BW:18:TYR:N	2.26	0.55
46:BY:96:VAL:HG13	46:BY:128:VAL:HG13	1.88	0.55
46:BY:23:LYS:HA	46:BY:39:VAL:O	2.06	0.55
46:BY:41:LEU:HA	46:BY:44:PHE:HB2	1.87	0.55
46:BY:80:ARG:O	46:BY:81:ARG:HG3	2.07	0.55
47:BZ:72:ARG:HD3	47:BZ:75:LEU:HD22	1.89	0.55
32:BK:93:THR:O	32:BK:96:ASP:HB2	2.06	0.55
3:AD:58:A:O2'	3:AD:61:C:H5	1.89	0.55
26:BC:42:GLU:O	26:BC:215:THR:O	2.24	0.55
24:BA:1580:A:H2'	24:BA:1581:G:C1'	2.36	0.55
24:BA:273(E):U:C6	24:BA:363(B):G:N2	2.75	0.55
1:AA:1094:G:H2'	1:AA:1108:G:H22	1.72	0.55
1:AA:1112:C:O2	5:AF:179:ARG:NE	2.40	0.55
1:AA:1127:G:H21	1:AA:1147:C:N4	2.04	0.55
1:AA:23:C:O2'	1:AA:24:U:H5'	2.06	0.55
1:AA:413:G:H2'	1:AA:414:A:OP2	2.06	0.55
1:AA:432:A:H3'	1:AA:432:A:H8	1.71	0.55
1:AA:593:G:C5	1:AA:594:G:C8	2.94	0.55
1:AA:646:U:C2	1:AA:647:C:C5	2.95	0.55
1:AA:675:A:H2'	1:AA:676:A:H8	1.69	0.55
1:AA:939:G:C2	1:AA:940:C:N3	2.75	0.55
1:AA:966:G:C2	3:AC:34:G:H5'	2.40	0.55
1:AA:980:C:C4	1:AA:981:U:N3	2.75	0.55
1:AA:9:G:P	7:AH:122:GLU:OE1	2.65	0.55
4:AE:17:PHE:C	4:AE:42:ILE:HG22	2.27	0.55
4:AE:82:ARG:H	4:AE:94:ASN:ND2	2.04	0.55
5:AF:142:MET:CE	5:AF:143:GLU:HA	2.37	0.55
5:AF:177:THR:O	5:AF:178:LEU:C	2.45	0.55
6:AG:170:VAL:HG11	6:AG:174:LEU:HD12	1.88	0.55
6:AG:39:PRO:O	6:AG:44:GLY:CA	2.55	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AH:115:VAL:HG11	7:AH:118:ILE:HD12	1.89	0.55
7:AH:5:ASP:O	7:AH:36:ASP:HA	2.07	0.55
7:AH:76:ILE:HG23	7:AH:77:PRO:HD2	1.89	0.55
8:AI:7:ASN:C	8:AI:8:ILE:CG1	2.74	0.55
9:AJ:17:VAL:CG1	9:AJ:17:VAL:O	2.54	0.55
9:AJ:68:ASN:ND2	9:AJ:127:ALA:O	2.39	0.55
10:AK:123:GLU:OE1	10:AK:124:ALA:N	2.39	0.55
10:AK:138:TRP:OXT	10:AK:138:TRP:CE3	2.60	0.55
10:AK:17:THR:HB	10:AK:18:ARG:NH2	2.21	0.55
1:AA:942:G:N2	11:AL:124:GLN:NE2	2.49	0.55
13:AN:54:ARG:C	13:AN:56:GLY:N	2.60	0.55
15:AP:108:ARG:HD2	15:AP:108:ARG:N	2.22	0.55
12:AM:46:ARG:NH1	16:AQ:59:ALA:HB1	2.22	0.55
17:AR:11:VAL:O	17:AR:12:ILE:C	2.45	0.55
19:AT:31:LEU:C	19:AT:32:TYR:CD2	2.80	0.55
19:AT:92:ARG:O	19:AT:95:TYR:N	2.36	0.55
1:AA:720:C:H1'	20:AU:50:ILE:HD12	1.88	0.55
20:AU:58:LEU:C	20:AU:62:GLU:HB2	2.27	0.55
20:AU:76:LEU:CD2	20:AU:76:LEU:H	2.14	0.55
54:B7:58:ILE:CG2	54:B7:61:LEU:HD12	2.37	0.55
24:BA:1065:U:H1'	24:BA:1074:G:N2	2.22	0.55
24:BA:1206:G:H2'	24:BA:1207:C:C4'	2.32	0.55
24:BA:124:G:H8	24:BA:124:G:O5'	1.89	0.55
24:BA:1273:U:H5''	24:BA:1646:C:H41	1.72	0.55
24:BA:1351:C:O2'	24:BA:1571:A:C8	2.59	0.55
24:BA:1357:U:N3	24:BA:1358:G:N3	2.55	0.55
24:BA:1388:G:C2	24:BA:1400:G:C2	2.95	0.55
24:BA:1428:C:C4	24:BA:1569:A:H5''	2.41	0.55
24:BA:1524:G:C4	24:BA:1525:G:C8	2.95	0.55
24:BA:1530:G:O3'	24:BA:1531:C:O4'	2.25	0.55
24:BA:1782:C:C6	24:BA:1782:C:H3'	2.41	0.55
24:BA:1788:C:O5'	24:BA:1788:C:H6	1.89	0.55
24:BA:179:G:H5'	53:B6:32:LYS:CE	2.36	0.55
24:BA:1964:G:OP1	24:BA:1964:G:C8	2.59	0.55
24:BA:2030:A:O2'	24:BA:2031:A:O5'	2.21	0.55
24:BA:2059:A:C2	24:BA:2503:A:N6	2.65	0.55
24:BA:2313:C:H2'	24:BA:2314:C:C6	2.41	0.55
24:BA:2318:G:C8	24:BA:2318:G:O5'	2.54	0.55
24:BA:2387:U:H1'	47:BZ:41:ARG:CZ	2.33	0.55
24:BA:2391:G:HO2'	24:BA:2392:A:P	2.30	0.55
24:BA:2459:A:C2	24:BA:2492:U:N3	2.74	0.55
24:BA:2576:G:C5'	24:BA:2577:A:OP1	2.54	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:270(Y):G:H5''	24:BA:270(Z):U:OP1	2.07	0.55
24:BA:267:C:OP2	24:BA:271(A):C:C5	2.60	0.55
24:BA:2754:U:H2'	24:BA:2756:U:OP1	2.06	0.55
24:BA:2543:G:N2	24:BA:2765:A:C2	2.74	0.55
24:BA:2786:U:O4'	28:BE:65:GLY:HA2	2.06	0.55
24:BA:2791:C:C5	24:BA:2893:G:N7	2.71	0.55
24:BA:281:G:N7	24:BA:281:G:OP1	2.40	0.55
24:BA:2842:G:H2'	24:BA:2843:G:O4'	2.07	0.55
24:BA:602:G:H2'	24:BA:655:A:C6	2.42	0.55
24:BA:696:G:N2	24:BA:697:C:C2	2.74	0.55
24:BA:714:U:O4	24:BA:717:G:OP2	2.24	0.55
24:BA:721:C:N3	24:BA:722:A:N7	2.55	0.55
24:BA:768:G:H2'	24:BA:769:G:H8	1.71	0.55
24:BA:775:G:C2'	24:BA:794:G:C8	2.89	0.55
24:BA:792:G:H21	24:BA:2072:G:C2'	2.19	0.55
24:BA:852:G:C5	24:BA:853:G:N7	2.75	0.55
24:BA:902:C:C2	24:BA:903:C:C5	2.95	0.55
24:BA:919:G:C2'	24:BA:920:G:O5'	2.55	0.55
24:BA:954:G:C6	24:BA:964:C:C4	2.95	0.55
25:BB:115:G:H4'	39:BR:50:SER:OG	2.07	0.55
25:BB:58:A:N7	25:BB:59:A:N7	2.55	0.55
25:BB:73:A:C2	25:BB:74:U:C2	2.95	0.55
27:BD:79:VAL:HG11	27:BD:113:VAL:HA	1.89	0.55
27:BD:157:ARG:O	27:BD:158:ALA:C	2.45	0.55
27:BD:29:PRO:O	27:BD:31:LYS:N	2.39	0.55
28:BE:133:LYS:HB3	28:BE:137:HIS:CD2	2.42	0.55
28:BE:164:ARG:HG2	28:BE:165:VAL:N	2.22	0.55
28:BE:38:THR:CB	28:BE:39:PRO:HD3	2.36	0.55
28:BE:53:PRO:O	28:BE:54:GLN:O	2.25	0.55
29:BF:120:GLU:OE1	29:BF:120:GLU:CA	2.54	0.55
30:BG:35:GLU:HA	30:BG:100:TRP:HH2	1.70	0.55
30:BG:125:PHE:CE2	30:BG:130:ASN:HB2	2.42	0.55
31:BH:149:ARG:CA	31:BH:162:ILE:HD13	2.37	0.55
31:BH:41:MET:SD	31:BH:64:LEU:HD22	2.46	0.55
34:BM:107:LEU:HD13	34:BM:117:PHE:CE1	2.41	0.55
36:BO:70:GLN:HB3	36:BO:110:TYR:OH	2.06	0.55
37:BP:26:TYR:H	37:BP:102:VAL:CB	2.18	0.55
37:BP:37:LEU:C	37:BP:39:PRO:HD3	2.27	0.55
38:BQ:54:LEU:O	38:BQ:80:PHE:CE1	2.60	0.55
39:BR:60:GLY:C	39:BR:62:LYS:N	2.59	0.55
35:BN:106:LEU:CD2	40:BS:38:ASN:HD21	2.19	0.55
40:BS:49:VAL:O	40:BS:50:ILE:HG23	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:533:G:H5'	41:BT:24:TYR:HD2	1.72	0.55
41:BT:32:PHE:HD1	41:BT:32:PHE:N	2.02	0.55
42:BU:11:GLN:CD	42:BU:22:VAL:HB	2.27	0.55
45:BX:14:LEU:CB	45:BX:20:TYR:HA	2.20	0.55
46:BY:118:GLN:OE1	46:BY:172:ALA:HB1	2.05	0.55
46:BY:25:PRO:HG2	46:BY:85:HIS:HA	1.88	0.55
32:BK:114:LEU:H	32:BK:131:LYS:NZ	2.05	0.55
32:BK:75:LEU:HD13	32:BK:76:THR:N	2.20	0.55
24:BA:2163:C:H2'	24:BA:2164:C:H5'	1.88	0.55
34:BM:133:GLN:N	34:BM:133:GLN:CD	2.60	0.55
1:AA:983:A:O2'	1:AA:1050:G:OP2	2.22	0.55
1:AA:1054:C:C6	1:AA:1054:C:C3'	2.89	0.55
1:AA:1082:G:H2'	1:AA:1083:U:H5'	1.88	0.55
1:AA:1150:U:H5'	1:AA:1280:A:N1	2.22	0.55
1:AA:1288:A:H8	1:AA:1288:A:O5'	1.89	0.55
1:AA:1409:C:O2'	1:AA:1410:G:H5'	2.06	0.55
1:AA:20:U:C2'	1:AA:21:G:O4'	2.55	0.55
1:AA:265:G:C8	1:AA:267:C:C5	2.94	0.55
1:AA:429:U:O2'	1:AA:430:A:H5''	2.07	0.55
1:AA:519:C:H5''	14:AO:51:ALA:HB2	1.87	0.55
1:AA:801:U:C2	1:AA:802:A:C8	2.95	0.55
4:AE:15:VAL:CG2	4:AE:209:ARG:NE	2.66	0.55
5:AF:192:THR:HG22	5:AF:192:THR:O	2.06	0.55
5:AF:67:THR:CG2	5:AF:104:GLN:CG	2.85	0.55
6:AG:60:GLU:HA	6:AG:63:LYS:CD	2.37	0.55
7:AH:122:GLU:HB3	7:AH:126:ARG:HG3	1.89	0.55
7:AH:109:ILE:CD1	7:AH:135:THR:HB	2.34	0.55
7:AH:140:ARG:HB2	7:AH:140:ARG:CZ	2.37	0.55
8:AI:48:LEU:HB3	20:AU:78:LEU:CD2	2.28	0.55
8:AI:79:LEU:O	8:AI:85:VAL:HG21	2.07	0.55
9:AJ:109:ASN:HA	9:AJ:119:ARG:HD3	1.88	0.55
10:AK:10:LEU:O	10:AK:14:ARG:NH1	2.30	0.55
10:AK:114:THR:O	10:AK:116:LYS:N	2.40	0.55
10:AK:47:GLY:O	10:AK:61:VAL:HA	2.06	0.55
11:AL:11:LYS:O	11:AL:12:GLU:HG2	2.07	0.55
11:AL:27:THR:HG22	11:AL:30:GLY:H	1.71	0.55
1:AA:657:G:C4'	17:AR:28:GLN:HE22	2.20	0.55
19:AT:4:LYS:CD	19:AT:5:VAL:N	2.63	0.55
21:AV:52:TYR:HA	21:AV:56:GLN:O	2.07	0.55
22:AW:78:ALA:O	22:AW:79:ARG:C	2.45	0.55
48:B1:16:LEU:HD22	48:B1:58:VAL:HG22	1.88	0.55
24:BA:72:U:C1'	48:B1:56:LEU:HD23	2.29	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:B2:29:ARG:O	49:B2:30:ARG:O	2.24	0.55
51:B4:50:GLY:HA3	51:B4:57:VAL:HG23	1.87	0.55
54:B7:36:LYS:HE3	54:B7:40:GLU:OE1	2.07	0.55
24:BA:1058:G:H2'	24:BA:1058:G:N3	2.22	0.55
24:BA:1434:A:C2	24:BA:1435:G:C1'	2.89	0.55
24:BA:1471:A:H2'	24:BA:1472:A:C4'	2.37	0.55
24:BA:154:G:C2	24:BA:155:C:C2	2.95	0.55
24:BA:1784:A:HO2'	24:BA:1785:A:H8	1.55	0.55
24:BA:2094:G:N2	24:BA:2196:C:C2	2.75	0.55
24:BA:214:G:H2'	24:BA:215:G:O4'	2.07	0.55
24:BA:46:C:C6	24:BA:215:G:H8	2.24	0.55
24:BA:2232:U:H2'	24:BA:2233:U:O5'	2.07	0.55
24:BA:2357:U:C6	24:BA:2357:U:OP2	2.60	0.55
24:BA:2417:C:OP1	54:B7:25:MET:HE1	2.07	0.55
24:BA:2436:G:C5	24:BA:2437:U:C5	2.95	0.55
24:BA:2463:C:H2'	24:BA:2464:C:C5'	2.36	0.55
24:BA:2652:C:C2'	24:BA:2653:U:O4'	2.55	0.55
24:BA:2667:C:H2'	24:BA:2668:G:O4'	2.06	0.55
24:BA:270(U):C:H2'	24:BA:270(V):G:O4'	2.06	0.55
24:BA:2764:A:N7	24:BA:2766:G:C5	2.75	0.55
24:BA:2785:C:C4	24:BA:2786:U:O4	2.59	0.55
24:BA:2792:G:N1	24:BA:2793:G:C6	2.74	0.55
24:BA:341:G:H2'	24:BA:342:G:O4'	2.07	0.55
24:BA:344:G:H5''	24:BA:345:A:OP2	2.06	0.55
24:BA:460:A:H2'	24:BA:461:C:O4'	2.06	0.55
24:BA:493:G:H21	24:BA:494:G:H1'	1.71	0.55
24:BA:542:C:H2'	24:BA:543:C:H6	1.72	0.55
24:BA:621:A:C8	24:BA:622:G:H5'	2.42	0.55
24:BA:67:U:O5'	24:BA:67:U:H6	1.89	0.55
24:BA:729:G:H2'	24:BA:730:C:C3'	2.36	0.55
24:BA:738:G:N3	24:BA:739:G:H1'	2.21	0.55
24:BA:807:U:O2	24:BA:807:U:H2'	2.06	0.55
24:BA:842:G:C6	24:BA:843:G:C6	2.94	0.55
24:BA:852:G:C4	24:BA:853:G:C8	2.95	0.55
24:BA:967:C:H2'	24:BA:968:G:H8	1.72	0.55
24:BA:96:G:H4'	48:B1:43:HIS:CD2	2.42	0.55
24:BA:988:A:OP1	49:B2:12:PRO:HD2	2.06	0.55
25:BB:29:A:C4	25:BB:56:G:N2	2.75	0.55
27:BD:135:PHE:HD1	27:BD:135:PHE:N	2.04	0.55
27:BD:7:LYS:CD	27:BD:91:ARG:HE	2.20	0.55
28:BE:149:ARG:NE	28:BE:150:VAL:O	2.40	0.55
28:BE:199:ARG:C	28:BE:200:GLU:CD	2.66	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:201:VAL:HG12	29:BF:205:ARG:NH2	2.22	0.55
29:BF:74:ARG:CZ	29:BF:75:HIS:N	2.69	0.55
29:BF:75:HIS:NE2	29:BF:80:ALA:CB	2.69	0.55
30:BG:10:LYS:O	30:BG:11:TYR:C	2.45	0.55
30:BG:127:GLY:O	30:BG:128:ARG:CB	2.55	0.55
30:BG:18:GLU:OE1	30:BG:19:LEU:N	2.40	0.55
24:BA:2745:C:H1'	31:BH:143:GLN:CG	2.35	0.55
24:BA:2657:A:O2'	31:BH:160:LYS:NZ	2.40	0.55
34:BM:100:GLU:HB3	34:BM:104:LYS:CE	2.36	0.55
34:BM:127:ASP:O	34:BM:130:HIS:N	2.40	0.55
35:BN:8:LEU:HD21	35:BN:81:ASP:C	2.26	0.55
36:BO:81:GLN:HA	36:BO:86:LYS:HG2	1.89	0.55
36:BO:81:GLN:CA	36:BO:86:LYS:HG3	2.36	0.55
37:BP:130:LYS:NZ	37:BP:132:VAL:CG1	2.70	0.55
37:BP:83:MET:O	37:BP:83:MET:HE2	2.06	0.55
37:BP:85:LYS:HZ2	47:BZ:10:THR:CG2	2.19	0.55
38:BQ:105:ARG:HG3	38:BQ:106:GLY:N	2.20	0.55
38:BQ:73:VAL:O	38:BQ:76:VAL:HB	2.07	0.55
39:BR:12:PHE:C	39:BR:14:VAL:N	2.53	0.55
40:BS:82:LEU:C	40:BS:84:GLN:H	2.09	0.55
40:BS:28:VAL:HG22	40:BS:92:GLY:O	2.06	0.55
41:BT:83:LEU:HD21	41:BT:95:LEU:HD13	1.88	0.55
24:BA:2010:G:P	43:BV:41:LYS:HZ3	2.29	0.55
43:BV:59:VAL:HG21	43:BV:66:GLU:CG	2.37	0.55
45:BX:97:ARG:O	45:BX:98:VAL:HG22	2.07	0.55
46:BY:100:VAL:HG23	46:BY:102:LEU:CD2	2.36	0.55
46:BY:152:ALA:CA	46:BY:155:LEU:HD22	2.37	0.55
47:BZ:12:ASN:CA	47:BZ:14:ARG:NE	2.69	0.55
3:AD:48:C:C4	3:AD:59:U:O2	2.59	0.55
26:BC:213:TYR:HD1	26:BC:213:TYR:N	2.04	0.55
26:BC:87:GLU:OE2	26:BC:94:VAL:HG11	2.06	0.55
24:BA:1116:C:N4	24:BA:1117:G:O6	2.40	0.55
30:BG:91:ARG:HD3	30:BG:91:ARG:C	2.26	0.55
1:AA:232:G:C4	1:AA:233:C:C5	2.95	0.55
24:BA:41:C:H2'	24:BA:43:G:H8	1.71	0.55
2:A1:17:U:O2'	2:A1:18:U:P	2.65	0.55
1:AA:1160:G:C2'	1:AA:1160:G:N3	2.67	0.55
1:AA:1054:C:OP1	1:AA:1197:G:OP1	2.25	0.55
1:AA:1224:G:O6	1:AA:1322:C:H1'	2.06	0.55
1:AA:151:A:H62	1:AA:152:A:H2	1.55	0.55
1:AA:229:U:H2'	1:AA:230:G:H8	1.72	0.55
1:AA:272:C:C2'	1:AA:273:A:H8	2.17	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:49:U:C5	1:AA:361:G:C2	2.95	0.55
1:AA:505:G:C8	1:AA:535:A:H1'	2.42	0.55
1:AA:686:U:OP1	1:AA:686:U:H4'	2.06	0.55
1:AA:756:C:O2'	1:AA:823:G:H1'	2.07	0.55
1:AA:787:A:C2	1:AA:788:U:O4'	2.60	0.55
1:AA:855:G:O5'	1:AA:871:U:O4	2.25	0.55
3:AC:59:U:N3	3:AC:60:U:C4	2.75	0.55
4:AE:104:ASN:OD1	4:AE:108:ILE:CG1	2.53	0.55
1:AA:619:U:O4	6:AG:134:ASP:OD1	2.24	0.55
6:AG:58:LEU:CD2	6:AG:62:GLN:HG2	2.36	0.55
6:AG:59:ARG:HH11	6:AG:59:ARG:CA	2.13	0.55
7:AH:109:ILE:HG12	7:AH:110:LEU:HD23	1.87	0.55
7:AH:78:HIS:CE1	7:AH:142:LEU:HD22	2.42	0.55
7:AH:81:GLU:H	7:AH:81:GLU:CD	2.09	0.55
9:AJ:102:ARG:O	9:AJ:103:TRP:C	2.45	0.55
10:AK:112:LEU:HA	10:AK:134:ILE:H	1.72	0.55
10:AK:63:LEU:HB2	10:AK:65:TYR:CE1	2.42	0.55
10:AK:95:VAL:CG1	10:AK:133:LEU:HD11	2.37	0.55
12:AM:8:LEU:HD12	12:AM:16:LEU:HA	1.89	0.55
12:AM:19:SER:N	12:AM:91:PRO:HG3	2.21	0.55
12:AM:44:VAL:HG22	12:AM:66:ARG:CD	2.37	0.55
12:AM:84:GLN:C	12:AM:85:LEU:HD12	2.26	0.55
14:AO:60:LEU:HD21	14:AO:64:TYR:CD2	2.42	0.55
1:AA:1230:C:O2'	15:AP:126:LYS:CE	2.54	0.55
16:AQ:42:ILE:O	16:AQ:44:LEU:N	2.39	0.55
18:AS:27:LYS:C	18:AS:29:ASP:N	2.58	0.55
22:AW:57:ARG:C	22:AW:59:ALA:N	2.56	0.55
49:B2:18:ASP:OD1	49:B2:19:GLN:N	2.39	0.55
24:BA:388:G:OP1	50:B3:29:PRO:HD3	2.07	0.55
50:B3:68:ARG:CZ	50:B3:68:ARG:H	2.20	0.55
24:BA:1095:A:H2'	24:BA:1096:A:O4'	2.07	0.55
24:BA:1175:U:H5'	24:BA:1176:G:P	2.47	0.55
24:BA:1248:G:H4'	24:BA:1249:U:OP1	2.07	0.55
24:BA:1312:U:H2'	24:BA:1313:U:C1'	2.34	0.55
24:BA:1430:C:C2	24:BA:1431:U:C5	2.95	0.55
24:BA:1439:A:C5	24:BA:1440:G:H1'	2.41	0.55
24:BA:1450:C:H2'	24:BA:1451:C:OP2	2.07	0.55
24:BA:1538:G:N2	24:BA:1539:G:N3	2.55	0.55
24:BA:154:G:C2	24:BA:155:C:N3	2.75	0.55
24:BA:175:G:C2	24:BA:176:G:C4	2.95	0.55
24:BA:1827:C:H1'	24:BA:1970:A:C2	2.40	0.55
24:BA:1891:G:N3	24:BA:1891:G:H2'	2.21	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1906:G:C4	24:BA:1929:G:C5	2.95	0.55
24:BA:1987:G:N3	24:BA:1988:C:C5	2.75	0.55
24:BA:1992:G:N1	24:BA:1995:U:O4	2.39	0.55
24:BA:204:A:C8	24:BA:204:A:OP1	2.60	0.55
24:BA:2051:A:H5''	24:BA:2578:G:C5'	2.33	0.55
24:BA:2053:G:O2'	24:BA:2054:A:C5'	2.53	0.55
24:BA:2075:U:O2	24:BA:2075:U:H2'	2.05	0.55
24:BA:2206:C:O2'	24:BA:2207:C:H5'	2.06	0.55
24:BA:2285:C:H3'	24:BA:2285:C:C6	2.42	0.55
24:BA:2305:A:H2'	30:BG:154:GLY:CA	2.32	0.55
24:BA:2378:A:C2	24:BA:2379:G:C1'	2.88	0.55
24:BA:1953:A:H62	24:BA:2550:G:H4'	1.71	0.55
24:BA:2639:A:C4	24:BA:2778:A:C2	2.95	0.55
24:BA:2639:A:C4	24:BA:2778:A:N1	2.75	0.55
24:BA:270(Z):U:O2'	24:BA:271(A):C:OP1	2.23	0.55
24:BA:2734:A:H2'	24:BA:2735:G:O4'	2.07	0.55
24:BA:2821:A:O2'	24:BA:2822:G:H5'	2.07	0.55
24:BA:2850:A:C4	24:BA:2869:G:H4'	2.42	0.55
24:BA:547:A:O2'	24:BA:548:A:H5'	2.06	0.55
24:BA:558:G:O2'	24:BA:559:G:C5'	2.55	0.55
24:BA:588:U:H2'	24:BA:589:C:C6	2.42	0.55
24:BA:678:C:O2'	24:BA:679:C:H5'	2.07	0.55
24:BA:60:G:N3	24:BA:74:A:O4'	2.40	0.55
24:BA:819:A:C2	24:BA:943:U:O2	2.60	0.55
24:BA:847:U:O4	24:BA:933:A:C2	2.59	0.55
24:BA:969:U:H2'	24:BA:970:C:C4'	2.36	0.55
25:BB:112:G:C5'	25:BB:113:C:OP2	2.54	0.55
27:BD:105:ILE:HD11	27:BD:106:ILE:HD13	1.88	0.55
27:BD:199:ALA:O	27:BD:202:LYS:N	2.40	0.55
27:BD:227:ASN:C	27:BD:229:VAL:H	2.10	0.55
28:BE:102:VAL:HG22	28:BE:104:VAL:HG23	1.88	0.55
28:BE:53:PRO:CG	28:BE:75:VAL:CG1	2.84	0.55
28:BE:7:VAL:HG11	28:BE:196:VAL:CG2	2.32	0.55
30:BG:12:TYR:CE1	30:BG:13:GLU:HG3	2.41	0.55
30:BG:142:PRO:C	30:BG:143:GLU:HG2	2.25	0.55
31:BH:148:ILE:HG23	31:BH:149:ARG:N	2.21	0.55
31:BH:89:ILE:HG12	31:BH:94:TYR:CD2	2.41	0.55
35:BN:24:VAL:HG22	35:BN:30:ALA:CB	2.37	0.55
35:BN:42:SER:HA	35:BN:56:ASP:HA	1.89	0.55
35:BN:43:VAL:HG22	35:BN:44:LYS:N	2.22	0.55
35:BN:8:LEU:HD13	35:BN:9:GLU:N	2.22	0.55
36:BO:111:ARG:HH21	36:BO:129:ALA:CB	2.20	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BO:130:PHE:HB3	36:BO:134:ALA:CB	2.37	0.55
36:BO:124:LYS:CB	36:BO:143:GLY:HA3	2.37	0.55
37:BP:124:LYS:O	37:BP:125:LEU:C	2.44	0.55
37:BP:68:ILE:HG23	37:BP:69:PHE:N	2.22	0.55
37:BP:77:LYS:HA	37:BP:89:ASN:HB2	1.88	0.55
37:BP:99:PRO:CG	37:BP:101:ARG:NE	2.69	0.55
37:BP:99:PRO:O	37:BP:99:PRO:HG2	2.07	0.55
38:BQ:25:ALA:CB	38:BQ:48:VAL:HG22	2.37	0.55
38:BQ:50:HIS:CE1	38:BQ:54:LEU:HD11	2.42	0.55
24:BA:2845:G:C5'	40:BS:57:PHE:O	2.55	0.55
42:BU:30:GLY:O	42:BU:33:VAL:HG23	2.07	0.55
42:BU:3:ALA:CB	42:BU:44:LYS:NZ	2.70	0.55
43:BV:81:ALA:CB	43:BV:98:LYS:O	2.54	0.55
44:BW:40:LYS:O	44:BW:51:VAL:HG21	2.07	0.55
44:BW:32:PRO:HG3	44:BW:77:LYS:CB	2.37	0.55
44:BW:93:GLU:O	44:BW:94:GLY:C	2.46	0.55
45:BX:12:THR:CG2	45:BX:70:SER:O	2.54	0.55
45:BX:50:ARG:HB2	45:BX:54:LYS:CD	2.36	0.55
46:BY:177:PRO:CG	46:BY:178:GLU:N	2.69	0.55
47:BZ:50:ASN:HB3	47:BZ:63:VAL:CG2	2.36	0.55
32:BK:115:ALA:CB	32:BK:128:LEU:HD22	2.36	0.55
32:BK:132:PRO:HD2	32:BK:138:ILE:N	2.22	0.55
32:BK:58:LEU:HA	32:BK:61:ARG:HG2	1.87	0.55
3:AD:48:C:O2'	3:AD:49:C:OP2	2.23	0.55
24:BA:2166:G:H2'	24:BA:2167:U:H6	1.72	0.55
26:BC:108:MET:CE	26:BC:136:LEU:HD12	2.36	0.55
26:BC:113:VAL:CG1	26:BC:138:PRO:HG3	2.37	0.55
3:AD:62:C:H5'	26:BC:52:ARG:HH11	1.71	0.55
24:BA:1416:G:OP2	24:BA:1416:G:H4'	2.07	0.55
28:BE:15:PHE:O	28:BE:16:ARG:C	2.44	0.55
1:AA:1123:A:H5''	12:AM:36:GLY:HA3	1.89	0.55
1:AA:1193:G:C8	1:AA:1193:G:H3'	2.42	0.55
1:AA:1217:C:H2'	1:AA:1218:C:H6	1.71	0.55
1:AA:954:G:N2	1:AA:1228:C:C4	2.75	0.55
1:AA:1345:U:C2	1:AA:1377:A:C6	2.95	0.55
1:AA:1514:C:C2	1:AA:1515:C:C5	2.95	0.55
1:AA:103:C:H1'	1:AA:151:A:H2	1.70	0.55
1:AA:20:U:O4'	1:AA:572:A:N1	2.40	0.55
1:AA:294:U:O2	1:AA:295:C:C5	2.61	0.55
1:AA:494:U:O2'	1:AA:495:A:H5'	2.07	0.55
1:AA:528:C:H42	14:AO:49:ASN:ND2	2.01	0.55
1:AA:712:A:O2'	1:AA:713:G:O4'	2.22	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:833:U:C2	1:AA:834:C:C5	2.95	0.55
1:AA:891:U:C5	1:AA:906:G:C2	2.95	0.55
3:AC:36:A:C6	3:AC:37:A:C5	2.94	0.55
3:AC:5:G:O2'	3:AC:6:G:O5'	2.24	0.55
4:AE:152:PHE:O	4:AE:154:LEU:N	2.38	0.55
5:AF:69:HIS:HA	5:AF:104:GLN:O	2.06	0.55
5:AF:58:GLU:N	5:AF:65:ALA:HB3	2.18	0.55
6:AG:110:PHE:CZ	6:AG:147:ALA:HB1	2.42	0.55
1:AA:8:A:C4'	7:AH:102:ALA:HA	2.36	0.55
7:AH:70:PRO:O	7:AH:76:ILE:HG12	2.06	0.55
9:AJ:106:GLN:CA	9:AJ:106:GLN:NE2	2.69	0.55
9:AJ:149:ARG:O	9:AJ:150:ALA:C	2.45	0.55
10:AK:24:THR:H	10:AK:60:ARG:HD3	1.72	0.55
11:AL:11:LYS:HB2	11:AL:108:VAL:HG12	1.88	0.55
11:AL:11:LYS:H	11:AL:104:ARG:HH21	1.51	0.55
11:AL:15:ALA:HB2	11:AL:73:GLN:O	2.07	0.55
11:AL:15:ALA:CB	11:AL:76:ALA:HB3	2.36	0.55
13:AN:59:TYR:O	13:AN:62:GLN:NE2	2.40	0.55
13:AN:91:ARG:HD2	13:AN:95:ILE:HD11	1.90	0.55
14:AO:53:ARG:HB3	14:AO:69:TYR:CE1	2.41	0.55
15:AP:63:THR:O	15:AP:63:THR:HG23	2.06	0.55
16:AQ:23:ARG:NH1	16:AQ:29:ARG:N	2.54	0.55
16:AQ:42:ILE:HG13	16:AQ:43:CYS:H	1.72	0.55
17:AR:31:LEU:HA	17:AR:34:LEU:HD21	1.88	0.55
17:AR:44:LYS:O	17:AR:46:HIS:N	2.40	0.55
20:AU:75:ILE:HG22	20:AU:76:LEU:N	2.21	0.55
1:AA:263:A:C5'	22:AW:75:ASN:HD21	2.19	0.55
1:AA:186:C:O2'	22:AW:85:MET:SD	2.56	0.55
49:B2:38:GLU:HG2	49:B2:40:THR:OG1	2.07	0.55
49:B2:52:HIS:NE2	49:B2:53:LEU:HD21	2.22	0.55
50:B3:59:PHE:CD1	50:B3:59:PHE:N	2.72	0.55
51:B4:55:ARG:C	51:B4:57:VAL:H	2.09	0.55
54:B7:44:LYS:HZ2	54:B7:44:LYS:HA	1.72	0.55
24:BA:1026:U:C2'	24:BA:1026:U:O2	2.40	0.55
24:BA:112:U:OP2	24:BA:112:U:C6	2.60	0.55
24:BA:1164:G:H2'	24:BA:1165:U:O5'	2.07	0.55
24:BA:1201:C:N4	24:BA:1241:A:H61	2.04	0.55
24:BA:1334:G:C4	24:BA:1335:U:C5	2.95	0.55
24:BA:155:C:N3	24:BA:171:G:N1	2.55	0.55
24:BA:1310:G:N2	24:BA:1610:A:C2	2.75	0.55
24:BA:1638:C:H5''	24:BA:2710:C:H1'	1.89	0.55
24:BA:1650:G:C2	24:BA:1651:G:N9	2.75	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1683:C:O2	24:BA:1684:C:C5	2.60	0.55
24:BA:172:C:H6	24:BA:172:C:O5'	1.89	0.55
24:BA:1707:G:C2	24:BA:1756:G:N2	2.75	0.55
24:BA:1794:U:O2	24:BA:1795:C:C6	2.60	0.55
24:BA:1956:U:C2'	24:BA:1957:C:C6	2.74	0.55
24:BA:1980:G:O2'	24:BA:1981:A:P	2.65	0.55
24:BA:1679:U:H4'	24:BA:1990:C:O2'	2.06	0.55
24:BA:1655:A:N6	24:BA:2005:A:C1'	2.70	0.55
24:BA:2033:A:N1	24:BA:2036:C:C5	2.75	0.55
24:BA:2091:U:H5''	24:BA:2093:G:OP1	2.07	0.55
24:BA:2215:G:O5'	24:BA:2215:G:C8	2.60	0.55
24:BA:2273:A:H8	24:BA:2274:A:O4'	1.89	0.55
24:BA:2512:C:O5'	24:BA:2512:C:H6	1.89	0.55
24:BA:2514:U:C2	24:BA:2515:C:C5	2.95	0.55
24:BA:265:A:C2	24:BA:281:G:O5'	2.60	0.55
24:BA:2752:C:H6	24:BA:2752:C:OP1	1.90	0.55
24:BA:339:U:H2'	24:BA:340:A:H8	1.67	0.55
24:BA:612:G:N2	24:BA:617:G:C6	2.68	0.55
24:BA:748:G:H8	24:BA:750:A:OP2	1.89	0.55
24:BA:802:A:H3'	24:BA:803:U:C5	2.42	0.55
24:BA:850:C:H2'	24:BA:851:U:H6	1.72	0.55
24:BA:95:G:O3'	48:B1:40:SER:HA	2.07	0.55
25:BB:29:A:O2'	25:BB:58:A:N1	2.38	0.55
28:BE:103:ASP:CA	28:BE:170:LEU:HD21	2.37	0.55
28:BE:8:LYS:HZ2	40:BS:3:ARG:CG	2.19	0.55
29:BF:46:ARG:HH21	29:BF:46:ARG:HG2	1.71	0.55
29:BF:61:GLY:HA3	29:BF:78:ILE:HG22	1.89	0.55
24:BA:675:A:C4'	29:BF:67:GLN:NE2	2.64	0.55
30:BG:8:LYS:HE2	30:BG:100:TRP:CD1	2.42	0.55
30:BG:165:THR:HG22	30:BG:167:GLU:OE1	2.07	0.55
31:BH:133:VAL:HG22	31:BH:134:SER:H	1.70	0.55
33:BL:10:LEU:HD11	33:BL:57:ILE:HD13	1.88	0.55
33:BL:16:LYS:O	33:BL:17:ALA:HB2	2.06	0.55
33:BL:10:LEU:HD13	33:BL:27:LEU:CG	2.37	0.55
34:BM:107:LEU:HD22	34:BM:117:PHE:CZ	2.41	0.55
34:BM:25:ARG:C	34:BM:28:THR:HG23	2.27	0.55
34:BM:38:HIS:O	41:BT:71:GLN:NE2	2.39	0.55
35:BN:22:ILE:HB	35:BN:23:ARG:HD2	1.88	0.55
35:BN:26:LYS:HG3	35:BN:27:GLY:H	1.70	0.55
35:BN:24:VAL:HG21	35:BN:30:ALA:HA	1.87	0.55
35:BN:62:VAL:HG23	35:BN:83:ALA:CA	2.17	0.55
37:BP:51:ARG:HH21	37:BP:55:VAL:HG21	1.72	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:77:LYS:HD2	37:BP:77:LYS:N	2.22	0.55
38:BQ:17:ARG:NH1	38:BQ:17:ARG:HB2	2.21	0.55
38:BQ:5:LYS:HZ1	38:BQ:6:SER:N	2.03	0.55
39:BR:101:LEU:HD13	39:BR:101:LEU:O	2.07	0.55
39:BR:51:ALA:CA	39:BR:73:LEU:HG	2.36	0.55
42:BU:20:LEU:HB2	42:BU:95:LEU:CD2	2.31	0.55
42:BU:6:LYS:HD3	42:BU:10:LYS:CB	2.37	0.55
43:BV:36:LEU:CD2	43:BV:47:VAL:HB	2.33	0.55
43:BV:90:ARG:HH21	43:BV:90:ARG:CA	2.20	0.55
44:BW:27:THR:CG2	44:BW:80:ILE:HD12	2.37	0.55
45:BX:74:PRO:HB3	45:BX:101:LYS:O	2.07	0.55
46:BY:51:ALA:HA	46:BY:53:ILE:O	2.06	0.55
47:BZ:45:PHE:HB3	47:BZ:59:LEU:HD11	1.88	0.55
3:AD:60:U:C2'	3:AD:61:C:OP1	2.55	0.55
26:BC:177:LYS:HB2	26:BC:180:PHE:CB	2.31	0.55
32:BK:133:HIS:HB3	32:BK:136:VAL:CG2	2.36	0.55
24:BA:487:C:C6	24:BA:487:C:H3'	2.42	0.55
10:AK:54:ASP:C	10:AK:56:LYS:H	2.09	0.55
1:AA:1021:G:H2'	1:AA:1022:G:H1'	1.89	0.55
1:AA:1053:G:O6	1:AA:1199:U:H2'	2.08	0.54
1:AA:1395:C:C2'	1:AA:1396:A:O5'	2.55	0.54
1:AA:1450:U:H1'	1:AA:1454:G:N2	2.22	0.54
1:AA:17:U:H2'	1:AA:18:C:C6	2.37	0.54
1:AA:49:U:N1	1:AA:364:A:N6	2.54	0.54
1:AA:635:G:C6	1:AA:636:U:C4	2.96	0.54
1:AA:761:G:H5'	19:AT:102:GLY:C	2.27	0.54
1:AA:812:C:O2'	1:AA:813:U:P	2.64	0.54
3:AB:62:C:O2'	3:AB:63:G:H5'	2.06	0.54
4:AE:61:LEU:N	4:AE:64:ARG:NH1	2.55	0.54
6:AG:93:PHE:O	6:AG:95:GLY:N	2.40	0.54
6:AG:78:LEU:CD2	6:AG:96:LEU:HD22	2.37	0.54
7:AH:122:GLU:O	7:AH:123:LEU:HD22	2.07	0.54
7:AH:76:ILE:CD1	7:AH:142:LEU:HB2	2.27	0.54
1:AA:1081:G:OP1	7:AH:17:ALA:O	2.25	0.54
9:AJ:123:GLU:OE1	9:AJ:134:ALA:HB2	2.06	0.54
10:AK:32:LYS:HG3	10:AK:59:LEU:HD12	1.89	0.54
10:AK:61:VAL:CG1	10:AK:62:TYR:H	2.19	0.54
10:AK:72:PRO:O	10:AK:73:ASP:HB2	2.06	0.54
11:AL:45:ALA:HB3	11:AL:74:ILE:HG21	1.88	0.54
12:AM:40:LEU:HD12	12:AM:69:ASN:CB	2.37	0.54
13:AN:24:SER:OG	13:AN:25:TYR:N	2.39	0.54
15:AP:37:THR:HG23	15:AP:56:LEU:HD22	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AP:81:LEU:HD22	15:AP:82:MET:H	1.69	0.54
49:B2:44:ARG:O	49:B2:47:VAL:N	2.40	0.54
50:B3:44:THR:CG2	50:B3:45:GLY:H	2.20	0.54
53:B6:30:VAL:HG22	53:B6:33:ARG:NH2	2.22	0.54
54:B7:13:ARG:CD	54:B7:24:ALA:HB1	2.35	0.54
54:B7:16:ILE:CG2	54:B7:57:ARG:NH2	2.70	0.54
54:B7:61:LEU:O	54:B7:62:LEU:CB	2.53	0.54
55:B8:11:CYS:CB	55:B8:32:HIS:CE1	2.86	0.54
24:BA:977:G:HO2'	24:BA:1001:A:H2	1.55	0.54
24:BA:1056:G:O4'	24:BA:1056:G:OP2	2.25	0.54
24:BA:1160:G:N1	24:BA:1161:C:N4	2.55	0.54
24:BA:1309:G:H1	24:BA:1605:C:H42	1.54	0.54
24:BA:1349:A:H5'	24:BA:1350:C:H5''	1.88	0.54
24:BA:143:C:H2'	24:BA:144:C:H6	1.71	0.54
24:BA:1534:G:O5'	24:BA:1534:G:H8	1.90	0.54
24:BA:1558:A:C2	24:BA:1560:G:C1'	2.90	0.54
24:BA:1558:A:H2	24:BA:1560:G:C8	2.24	0.54
24:BA:1613:G:N2	24:BA:1619:G:C5	2.75	0.54
24:BA:1642:G:C2	24:BA:1643:G:C8	2.95	0.54
24:BA:1769:G:H2'	24:BA:1770:G:C8	2.42	0.54
24:BA:1803:A:C3'	27:BD:257:LEU:HD13	2.37	0.54
24:BA:1835:G:N3	24:BA:1931:U:N3	2.54	0.54
24:BA:1901:A:H4'	27:BD:244:ARG:NH1	2.17	0.54
24:BA:2093:G:N3	24:BA:2198:A:N1	2.55	0.54
24:BA:2333:A:N3	24:BA:2333:A:C2'	2.67	0.54
24:BA:1127:A:C6	24:BA:2518:A:C2	2.94	0.54
24:BA:1127:A:C2	24:BA:2518:A:N3	2.76	0.54
24:BA:2612:C:O2'	51:B4:4:HIS:HB3	2.07	0.54
24:BA:2709:G:H2'	24:BA:2710:C:O5'	2.06	0.54
24:BA:2830:G:N1	24:BA:2831:G:C5	2.75	0.54
24:BA:35:G:C6	24:BA:446:G:N2	2.75	0.54
24:BA:510:C:OP1	24:BA:512:G:N2	2.36	0.54
24:BA:529:A:O3'	24:BA:530:G:C8	2.60	0.54
24:BA:543:C:C2	24:BA:544:C:C5	2.95	0.54
24:BA:569:U:OP1	24:BA:945:A:N6	2.40	0.54
24:BA:577:G:C5	24:BA:578:A:N7	2.76	0.54
24:BA:679:C:O2	24:BA:679:C:H2'	2.06	0.54
24:BA:747:U:O2	24:BA:2613:U:O4	2.25	0.54
24:BA:748:G:OP1	43:BV:88:ARG:HD3	2.07	0.54
24:BA:792:G:N2	24:BA:2072:G:C1'	2.66	0.54
24:BA:813:U:H2'	24:BA:814:C:O4'	2.08	0.54
24:BA:900:A:C2'	24:BA:901:A:H5'	2.38	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:975:G:C6	24:BA:976:C:H5	2.24	0.54
24:BA:977:G:O2'	24:BA:978:G:H5'	2.06	0.54
24:BA:996:A:H5'	41:BT:93:LYS:HD2	1.88	0.54
25:BB:68:C:H2'	25:BB:69:G:C1'	2.36	0.54
27:BD:79:VAL:CG1	27:BD:113:VAL:HA	2.37	0.54
27:BD:126:GLN:O	27:BD:127:VAL:C	2.45	0.54
24:BA:1818:U:C5'	27:BD:158:ALA:HB2	2.29	0.54
27:BD:23:GLU:CD	27:BD:24:ILE:N	2.61	0.54
28:BE:151:TYR:CD2	28:BE:152:LYS:N	2.75	0.54
28:BE:73:GLU:N	28:BE:74:PRO:HD3	2.22	0.54
29:BF:154:VAL:HG21	29:BF:193:VAL:HG21	1.88	0.54
29:BF:36:VAL:CG1	29:BF:183:VAL:HB	2.37	0.54
29:BF:194:MET:HE1	29:BF:200:GLU:HG2	1.88	0.54
29:BF:199:TRP:C	29:BF:203:GLN:OE1	2.46	0.54
29:BF:45:ARG:CG	29:BF:46:ARG:H	2.20	0.54
29:BF:9:ILE:HG21	29:BF:124:LEU:O	2.06	0.54
30:BG:12:TYR:CA	30:BG:15:VAL:HG22	2.33	0.54
24:BA:2314:C:C5'	30:BG:38:VAL:HG21	2.36	0.54
31:BH:118:PRO:HG3	31:BH:144:VAL:CG2	2.33	0.54
31:BH:98:LEU:N	31:BH:125:VAL:HG21	2.22	0.54
33:BL:70:LYS:HB3	33:BL:114:ASP:OD2	2.06	0.54
35:BN:15:GLY:HA3	35:BN:52:VAL:HG21	1.84	0.54
35:BN:12:ASP:O	35:BN:94:ARG:CZ	2.54	0.54
29:BF:31:HIS:CG	36:BO:14:LYS:NZ	2.74	0.54
36:BO:81:GLN:HA	36:BO:86:LYS:CG	2.36	0.54
37:BP:22:LYS:CE	37:BP:23:GLY:H	2.20	0.54
37:BP:63:LYS:HD2	37:BP:64:ILE:O	2.06	0.54
38:BQ:14:SER:HA	38:BQ:17:ARG:NE	2.22	0.54
39:BR:52:SER:CB	39:BR:69:VAL:HG13	2.35	0.54
39:BR:57:LYS:O	39:BR:58:LEU:HB2	2.06	0.54
40:BS:103:ARG:O	40:BS:107:ASP:CG	2.46	0.54
40:BS:107:ASP:N	40:BS:107:ASP:OD1	2.39	0.54
40:BS:52:ILE:CA	40:BS:66:VAL:CG1	2.80	0.54
41:BT:35:ALA:O	41:BT:36:ARG:C	2.44	0.54
42:BU:14:VAL:HG12	42:BU:15:GLU:N	2.09	0.54
42:BU:28:GLU:OE1	42:BU:94:LEU:HG	2.07	0.54
42:BU:56:SER:O	42:BU:57:VAL:CG2	2.55	0.54
45:BX:26:LYS:NZ	45:BX:36:ALA:CB	2.70	0.54
46:BY:168:GLU:OE1	46:BY:169:GLU:CA	2.55	0.54
46:BY:68:PRO:O	46:BY:90:VAL:HG12	2.07	0.54
46:BY:94:GLU:O	46:BY:96:VAL:HG23	2.06	0.54
47:BZ:44:ARG:O	47:BZ:77:ARG:CB	2.53	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AD:13:C:OP2	3:AD:13:C:H6	1.89	0.54
24:BA:2127:G:N2	24:BA:2128:C:O2	2.41	0.54
24:BA:2127:G:C6	24:BA:2162:G:C6	2.95	0.54
26:BC:50:ASP:OD1	26:BC:53:ARG:HG3	2.07	0.54
32:BK:19:VAL:CG1	32:BK:20:ASP:N	2.63	0.54
24:BA:274:G:N3	24:BA:274:G:O5'	2.40	0.54
3:AC:44:G:C2	3:AC:45:U:O2	2.60	0.54
1:AA:350:G:N3	1:AA:350:G:H2'	2.22	0.54
2:A1:37:U:C3'	2:A1:38:U:C6	2.91	0.54
1:AA:1064:G:OP1	1:AA:1386:G:H5'	2.07	0.54
1:AA:1145:C:O2'	1:AA:1146:A:H8	1.90	0.54
1:AA:1239:A:H1'	1:AA:1241:G:C5	2.42	0.54
1:AA:1277:C:H2'	1:AA:1278:U:O4'	2.06	0.54
1:AA:1371:G:C5	1:AA:1372:U:C5	2.96	0.54
1:AA:1406:U:O2	1:AA:1407:C:C6	2.60	0.54
1:AA:27:G:N1	1:AA:557:G:C4	2.75	0.54
1:AA:313:A:H2'	1:AA:314:C:H6	1.58	0.54
1:AA:557:G:H2'	1:AA:558:G:N9	2.22	0.54
1:AA:580:U:H2'	1:AA:581:G:O4'	2.07	0.54
1:AA:619:U:H3	6:AG:135:LEU:CD2	2.20	0.54
1:AA:664:G:H22	1:AA:741:G:H22	1.54	0.54
1:AA:652:U:O4	1:AA:752:G:H2'	2.07	0.54
1:AA:22:G:C5'	1:AA:885:G:O4'	2.53	0.54
1:AA:968:A:H5''	1:AA:969:A:C5'	2.37	0.54
3:AB:75:C:O3'	24:BA:2573:C:N3	2.40	0.54
3:AC:58:A:H4'	3:AC:59:U:OP1	2.07	0.54
3:AC:9:A:H5''	3:AC:10:G:OP2	2.06	0.54
4:AE:131:PRO:O	4:AE:134:GLU:HB2	2.07	0.54
4:AE:58:ILE:CG2	4:AE:221:LEU:HD12	2.38	0.54
4:AE:82:ARG:HB2	4:AE:94:ASN:HD21	1.73	0.54
5:AF:72:LYS:O	5:AF:76:VAL:HB	2.06	0.54
6:AG:129:ASN:ND2	6:AG:145:GLU:HG2	2.22	0.54
7:AH:109:ILE:HG23	7:AH:110:LEU:H	1.73	0.54
8:AI:14:LEU:CD1	8:AI:15:ASP:O	2.55	0.54
9:AJ:45:ASP:HB2	9:AJ:117:ALA:HB2	1.88	0.54
9:AJ:66:VAL:O	9:AJ:70:LYS:HG3	2.06	0.54
10:AK:33:GLU:CA	10:AK:36:LEU:HD21	2.34	0.54
10:AK:24:THR:O	10:AK:60:ARG:CA	2.54	0.54
1:AA:1179:A:C4'	11:AL:103:THR:OG1	2.49	0.54
11:AL:118:LYS:HB2	11:AL:121:ARG:HB2	1.87	0.54
11:AL:70:LYS:H	11:AL:70:LYS:CD	2.20	0.54
12:AM:59:SER:O	12:AM:60:ARG:O	2.25	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AN:58:PRO:HB2	13:AN:93:GLN:CG	2.37	0.54
13:AN:18:ARG:CA	13:AN:80:VAL:HG23	2.34	0.54
13:AN:99:GLN:O	13:AN:105:VAL:HG21	2.07	0.54
14:AO:102:ARG:HD3	14:AO:110:VAL:HG13	1.87	0.54
15:AP:59:TYR:CE2	15:AP:60:VAL:CG2	2.90	0.54
15:AP:36:LYS:HB3	15:AP:59:TYR:CZ	2.42	0.54
16:AQ:23:ARG:HH11	16:AQ:29:ARG:N	2.05	0.54
16:AQ:48:ALA:HA	16:AQ:53:LEU:HD12	1.88	0.54
17:AR:41:GLU:CD	17:AR:41:GLU:C	2.65	0.54
18:AS:19:ILE:CB	18:AS:37:GLY:O	2.51	0.54
18:AS:59:TRP:HE3	18:AS:59:TRP:HA	1.70	0.54
19:AT:31:LEU:O	19:AT:32:TYR:CD2	2.52	0.54
20:AU:37:VAL:CG1	20:AU:41:LYS:NZ	2.70	0.54
48:B1:39:LEU:O	48:B1:42:ASN:ND2	2.38	0.54
49:B2:9:VAL:CG2	49:B2:10:LYS:N	2.57	0.54
49:B2:50:VAL:O	49:B2:52:HIS:CE1	2.60	0.54
49:B2:5:LYS:CE	49:B2:57:GLU:HB2	2.36	0.54
52:B5:16:CYS:HA	52:B5:49:HIS:O	2.07	0.54
24:BA:2286:A:C2	52:B5:27:LYS:CB	2.73	0.54
52:B5:16:CYS:SG	52:B5:41:PRO:HG3	2.48	0.54
24:BA:1291:C:H2'	24:BA:1292:U:C6	2.42	0.54
24:BA:1342:A:C4	24:BA:1345:C:N4	2.75	0.54
24:BA:1364:G:N1	24:BA:1367:A:OP2	2.40	0.54
24:BA:1407:C:O2'	24:BA:1408:C:C5'	2.55	0.54
24:BA:1555:G:C4	24:BA:1556:C:C5	2.94	0.54
24:BA:1565:C:C4	24:BA:1567:A:H1'	2.42	0.54
24:BA:1604:C:O2'	24:BA:1605:C:C5'	2.55	0.54
24:BA:1667:G:O5'	35:BN:7:TYR:CE1	2.61	0.54
24:BA:1675:C:N4	28:BE:128:SER:CB	2.69	0.54
24:BA:1688:U:C2'	24:BA:1689:A:OP2	2.54	0.54
24:BA:1700:A:O2'	24:BA:1701:A:OP1	2.25	0.54
24:BA:1743:G:OP1	24:BA:1743:G:C4'	2.54	0.54
24:BA:1789:A:C8	24:BA:1790:C:C6	2.96	0.54
24:BA:1936:A:C5	24:BA:1945:G:C6	2.95	0.54
24:BA:1981:A:C5'	24:BA:1982:C:OP2	2.50	0.54
24:BA:2011:U:C2'	24:BA:2012:G:C8	2.90	0.54
24:BA:2043:C:C6	24:BA:2043:C:OP1	2.54	0.54
24:BA:2056:G:C4	24:BA:2577:A:N3	2.75	0.54
24:BA:2093:G:H1'	32:BK:29:TYR:CD2	2.43	0.54
24:BA:2283:C:C4	24:BA:2389:G:C2	2.95	0.54
24:BA:2311:A:H5''	24:BA:2312:U:H5	1.71	0.54
24:BA:2331:G:C5	24:BA:2332:U:N3	2.76	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2335:A:O2'	24:BA:2336:A:H8	1.89	0.54
24:BA:2437:U:H2'	24:BA:2438:U:H6	1.69	0.54
24:BA:2455:G:C4	24:BA:2456:C:C5	2.95	0.54
24:BA:2588:G:H8	24:BA:2588:G:O5'	1.90	0.54
24:BA:2619:C:O3'	28:BE:152:LYS:O	2.25	0.54
24:BA:2645:G:O2'	24:BA:2733:A:P	2.65	0.54
24:BA:2653:U:C2	24:BA:2654:A:N7	2.76	0.54
24:BA:2674:G:H2'	24:BA:2675:A:C8	2.40	0.54
24:BA:2694:G:C6	24:BA:2695:C:C5	2.95	0.54
24:BA:26:G:N2	24:BA:27:G:H21	2.05	0.54
24:BA:270(W):G:C4	24:BA:270(X):G:C8	2.94	0.54
24:BA:2781:A:H2'	24:BA:2782:G:H4'	1.89	0.54
24:BA:278:A:H2'	24:BA:279:C:N1	2.21	0.54
24:BA:280:C:N3	24:BA:283:A:N7	2.54	0.54
24:BA:285:C:C2	24:BA:286:C:C5	2.95	0.54
24:BA:2877:G:C2	24:BA:2878:U:C2	2.94	0.54
24:BA:2886:G:O2'	51:B4:31:VAL:CB	2.51	0.54
24:BA:394:A:C6	24:BA:395:U:C4	2.95	0.54
24:BA:495:G:O3'	43:BV:4:LYS:HE3	2.06	0.54
24:BA:545:G:H1'	24:BA:549:G:C2	2.41	0.54
24:BA:563:G:O5'	24:BA:564:C:P	2.65	0.54
24:BA:595:C:H2'	24:BA:596:G:C8	2.41	0.54
24:BA:601:C:C1'	29:BF:104:LYS:HZ3	2.21	0.54
24:BA:61:G:O2'	24:BA:62:C:H5'	2.07	0.54
24:BA:71:A:O2'	24:BA:72:U:P	2.65	0.54
24:BA:71:A:N3	24:BA:73:A:N6	2.54	0.54
25:BB:1:U:C4	25:BB:2:C:N4	2.75	0.54
27:BD:5:LYS:HD2	27:BD:113:VAL:CG2	2.36	0.54
27:BD:155:LEU:CD2	27:BD:155:LEU:O	2.55	0.54
28:BE:5:LEU:HD13	28:BE:196:VAL:C	2.27	0.54
29:BF:126:VAL:HG23	29:BF:197:ASP:OD1	2.08	0.54
29:BF:183:VAL:C	29:BF:186:ILE:HB	2.27	0.54
29:BF:184:TYR:O	29:BF:186:ILE:N	2.40	0.54
29:BF:68:LYS:O	29:BF:69:HIS:HB3	2.06	0.54
29:BF:97:TYR:C	29:BF:98:SER:O	2.44	0.54
30:BG:15:VAL:O	30:BG:18:GLU:CB	2.54	0.54
31:BH:33:LEU:CD2	31:BH:35:VAL:HG22	2.36	0.54
31:BH:38:SER:H	31:BH:41:MET:HE3	1.69	0.54
31:BH:85:LYS:CB	31:BH:85:LYS:HZ2	2.20	0.54
35:BN:112:MET:HA	35:BN:115:VAL:HG21	1.87	0.54
35:BN:11:ALA:HB1	35:BN:97:ARG:NH1	2.22	0.54
36:BO:23:PRO:CG	36:BO:29:LYS:H	2.20	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:110:THR:HG22	37:BP:110:THR:O	2.07	0.54
37:BP:114:ALA:O	37:BP:117:ALA:HB3	2.06	0.54
37:BP:6:ARG:HE	37:BP:8:LYS:HG3	1.71	0.54
37:BP:6:ARG:NE	37:BP:8:LYS:HG3	2.21	0.54
37:BP:98:LYS:HE3	37:BP:98:LYS:N	2.21	0.54
38:BQ:35:THR:HG22	38:BQ:113:LEU:HD23	1.88	0.54
39:BR:7:TYR:O	39:BR:11:LYS:HD3	2.07	0.54
41:BT:93:LYS:HZ3	41:BT:93:LYS:HA	1.71	0.54
41:BT:99:ALA:CA	41:BT:106:PHE:CD1	2.90	0.54
42:BU:27:ALA:O	42:BU:33:VAL:CG2	2.52	0.54
42:BU:3:ALA:O	42:BU:13:ARG:HA	2.07	0.54
43:BV:25:ARG:O	43:BV:26:GLY:C	2.45	0.54
43:BV:82:LEU:H	43:BV:98:LYS:HZ3	1.56	0.54
45:BX:14:LEU:HD13	45:BX:20:TYR:O	2.06	0.54
45:BX:32:PRO:HB2	45:BX:34:LYS:CG	2.35	0.54
45:BX:50:ARG:CA	45:BX:54:LYS:HA	2.31	0.54
46:BY:122:ARG:HB2	46:BY:171:ILE:HD13	1.89	0.54
46:BY:44:PHE:CD2	46:BY:48:PHE:HE1	2.24	0.54
32:BK:102:SER:HA	32:BK:108:THR:HG22	1.89	0.54
32:BK:86:THR:O	32:BK:123:LEU:HB2	2.07	0.54
26:BC:75:LEU:HD13	26:BC:110:PHE:CD2	2.42	0.54
26:BC:163:PHE:CZ	26:BC:195:ALA:HB3	2.42	0.54
1:AA:232:G:C6	1:AA:233:C:N4	2.75	0.54
3:AB:72:C:N4	3:AB:73:A:N6	2.55	0.54
1:AA:1165:C:C5	1:AA:1166:G:C8	2.95	0.54
1:AA:69:G:C2	1:AA:101:A:C2	2.96	0.54
1:AA:1066:C:H5	1:AA:1067:A:H62	1.55	0.54
1:AA:1145:C:O2'	1:AA:1146:A:C8	2.61	0.54
1:AA:1267:C:C2'	1:AA:1267:C:O2	2.55	0.54
1:AA:1342:C:O2'	11:AL:124:GLN:CB	2.52	0.54
1:AA:1415:G:C6	1:AA:1416:G:N7	2.76	0.54
1:AA:1446:A:HO2'	1:AA:1447:G:P	2.29	0.54
1:AA:1524:C:H2'	1:AA:1525:G:O4'	2.06	0.54
1:AA:258:G:H2'	1:AA:259:G:H8	1.71	0.54
1:AA:265:G:C2'	1:AA:267:C:H5	2.10	0.54
1:AA:596:C:O2	1:AA:596:C:H2'	2.07	0.54
1:AA:595:G:N7	1:AA:641:U:C2	2.75	0.54
1:AA:738:C:N4	1:AA:739:C:H41	2.05	0.54
1:AA:741:G:O2'	1:AA:742:G:H5'	2.08	0.54
1:AA:763:G:H2'	1:AA:764:C:O5'	2.07	0.54
1:AA:789:U:C6	1:AA:789:U:C3'	2.90	0.54
1:AA:832:C:C2	1:AA:833:U:C5	2.95	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:858:G:N2	1:AA:870:U:P	2.80	0.54
1:AA:859:A:C2'	1:AA:860:A:O5'	2.55	0.54
1:AA:913:A:O2'	1:AA:914:A:P	2.66	0.54
1:AA:956:U:O2'	1:AA:957:U:C5'	2.55	0.54
1:AA:959:A:C3'	1:AA:960:U:C5'	2.83	0.54
4:AE:53:ARG:NH1	4:AE:200:ILE:HD12	2.21	0.54
4:AE:14:GLY:CA	4:AE:209:ARG:HH21	2.13	0.54
4:AE:32:ILE:HD12	4:AE:190:THR:HG22	1.90	0.54
4:AE:69:LEU:HD22	4:AE:92:TYR:N	2.22	0.54
5:AF:150:LYS:NZ	5:AF:152:ILE:CG2	2.69	0.54
5:AF:157:ILE:HG13	5:AF:164:ARG:HB3	1.89	0.54
5:AF:72:LYS:O	5:AF:76:VAL:CG2	2.56	0.54
6:AG:122:ARG:HA	6:AG:134:ASP:O	2.07	0.54
6:AG:200:GLU:O	6:AG:201:GLN:C	2.45	0.54
8:AI:97:PHE:HE2	20:AU:62:GLU:OE2	1.91	0.54
9:AJ:69:VAL:CG1	9:AJ:104:LEU:HD21	2.36	0.54
3:AD:32:U:H1'	9:AJ:86:GLN:OE1	2.06	0.54
10:AK:87:SER:CB	10:AK:93:VAL:N	2.70	0.54
11:AL:37:PHE:HD1	11:AL:43:ALA:HA	1.72	0.54
11:AL:9:ARG:CD	11:AL:14:VAL:HG13	2.38	0.54
12:AM:75:ILE:HG22	12:AM:76:ASN:ND2	2.22	0.54
16:AQ:26:ARG:HE	16:AQ:43:CYS:C	2.11	0.54
17:AR:36:ILE:HD11	17:AR:60:VAL:CB	2.38	0.54
17:AR:36:ILE:CD1	17:AR:60:VAL:HG22	2.36	0.54
19:AT:38:ARG:HG3	19:AT:39:SER:H	1.73	0.54
19:AT:84:LEU:O	19:AT:87:LYS:HB2	2.06	0.54
13:AN:84:VAL:CG2	20:AU:88:LYS:HD3	2.33	0.54
21:AV:45:VAL:CA	21:AV:67:VAL:HG21	2.36	0.54
22:AW:86:ARG:HG2	22:AW:87:LYS:H	1.72	0.54
49:B2:44:ARG:O	49:B2:45:GLY:C	2.45	0.54
49:B2:45:GLY:C	49:B2:48:GLU:HG2	2.26	0.54
51:B4:9:LYS:O	51:B4:10:LYS:CG	2.56	0.54
51:B4:15:ARG:O	51:B4:18:ALA:N	2.40	0.54
54:B7:15:LYS:HA	54:B7:15:LYS:HE2	1.89	0.54
54:B7:53:PRO:HA	54:B7:56:GLU:HG2	1.89	0.54
55:B8:20:HIS:O	55:B8:22:ARG:N	2.40	0.54
24:BA:85:G:C4	24:BA:103:A:H2	2.25	0.54
24:BA:1108:U:C5	24:BA:1109:C:N4	2.75	0.54
24:BA:1047:G:H2'	24:BA:1110:G:C2	2.41	0.54
24:BA:1165:U:C2'	24:BA:1166:C:C6	2.91	0.54
24:BA:1221:C:H2'	24:BA:1222:C:O5'	2.07	0.54
24:BA:1264:G:H3'	24:BA:1264:G:C8	2.42	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1342:A:C1'	24:BA:1345:C:N4	2.68	0.54
24:BA:140:A:N3	24:BA:1408:C:H1'	2.22	0.54
24:BA:1655:A:H2'	24:BA:1656:C:H6	1.70	0.54
24:BA:1688:U:O2	24:BA:1698:A:C5	2.60	0.54
24:BA:1815:A:C1'	24:BA:1817:G:C4	2.89	0.54
24:BA:1935:G:O2'	24:BA:1936:A:OP2	2.25	0.54
24:BA:1939:U:H2'	24:BA:1940:U:OP1	2.07	0.54
24:BA:1971:A:C2	27:BD:239:ARG:CA	2.90	0.54
24:BA:1980:G:O2'	24:BA:1981:A:OP1	2.21	0.54
24:BA:2007:C:C4	24:BA:2008:C:C5	2.94	0.54
24:BA:2049:G:C2'	24:BA:2050:C:O5'	2.55	0.54
24:BA:2075:U:N3	24:BA:2238:G:N1	2.47	0.54
24:BA:2078:C:O2'	24:BA:2433:A:O2'	2.17	0.54
24:BA:219:G:C2'	24:BA:220:G:H5'	2.38	0.54
24:BA:2335:A:HO2'	24:BA:2336:A:H8	1.54	0.54
24:BA:2357:U:C2'	24:BA:2358:G:O5'	2.55	0.54
24:BA:2385:C:N3	24:BA:2386:C:C6	2.74	0.54
24:BA:2491:U:H2'	24:BA:2492:U:H5''	1.89	0.54
24:BA:2498:C:O2	24:BA:2498:C:C2'	2.56	0.54
24:BA:2586:C:N4	24:BA:2587:A:H62	2.05	0.54
24:BA:2699:C:C2'	24:BA:2700:C:H5'	2.37	0.54
24:BA:2779:U:C3'	24:BA:2779:U:C6	2.90	0.54
24:BA:2816:C:C2	24:BA:2817:G:C8	2.96	0.54
24:BA:2817:G:H2'	24:BA:2818:G:H8	1.72	0.54
24:BA:308:G:N2	24:BA:329:G:C2	2.76	0.54
24:BA:417:C:C4	24:BA:418:G:N7	2.75	0.54
24:BA:516:C:C2	24:BA:517:C:C5	2.95	0.54
24:BA:556:G:C4	24:BA:557:U:C5	2.94	0.54
24:BA:603:A:C6	24:BA:625:G:C5	2.95	0.54
24:BA:627:A:OP1	24:BA:637:A:N6	2.41	0.54
24:BA:819:A:H8	24:BA:819:A:H5'	1.72	0.54
24:BA:882:G:H1'	24:BA:896:A:H61	1.71	0.54
24:BA:960:A:C5'	24:BA:961:C:OP1	2.54	0.54
24:BA:967:C:H2'	24:BA:968:G:C8	2.42	0.54
24:BA:98:G:O2'	24:BA:103:A:H1'	2.07	0.54
25:BB:38:C:O3'	39:BR:93:LYS:NZ	2.39	0.54
27:BD:253:GLN:O	27:BD:254:THR:HG23	2.07	0.54
28:BE:144:ARG:HG2	28:BE:144:ARG:O	2.07	0.54
24:BA:674:G:C5'	29:BF:74:ARG:NH1	2.65	0.54
3:AC:19:G:N2	30:BG:82:LEU:HD13	2.21	0.54
31:BH:126:PRO:HG3	31:BH:132:ARG:NH1	2.22	0.54
31:BH:90:LYS:HE2	31:BH:159:GLU:CD	2.28	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:BH:33:LEU:HD11	31:BH:74:ASN:HD21	1.73	0.54
33:BL:12:LEU:HD22	33:BL:19:PRO:HG2	1.88	0.54
34:BM:126:PRO:O	34:BM:127:ASP:HB3	2.07	0.54
34:BM:13:TRP:HB2	34:BM:136:GLU:CD	2.28	0.54
34:BM:28:THR:C	34:BM:31:ALA:HB3	2.26	0.54
34:BM:60:ILE:CG2	34:BM:61:ARG:N	2.70	0.54
34:BM:62:VAL:O	34:BM:64:GLY:N	2.36	0.54
34:BM:87:LEU:HA	34:BM:90:MET:CG	2.37	0.54
36:BO:116:GLY:HA3	36:BO:121:LYS:HB3	1.89	0.54
36:BO:65:ARG:HH11	36:BO:67:MET:H	1.49	0.54
37:BP:16:ARG:HG2	37:BP:73:PRO:CD	2.34	0.54
38:BQ:52:ILE:O	38:BQ:56:LYS:HG3	2.06	0.54
38:BQ:76:VAL:HG12	38:BQ:77:ARG:N	2.22	0.54
39:BR:99:LYS:O	39:BR:103:GLU:OE2	2.26	0.54
25:BB:51:G:OP1	39:BR:60:GLY:O	2.25	0.54
39:BR:76:LYS:CG	39:BR:77:ALA:N	2.68	0.54
40:BS:48:ILE:HG12	40:BS:49:VAL:N	2.22	0.54
35:BN:77:ILE:CG2	40:BS:75:ILE:HD12	2.33	0.54
42:BU:33:VAL:CG1	42:BU:34:GLU:N	2.69	0.54
42:BU:88:ARG:HG2	42:BU:89:GLN:N	2.22	0.54
43:BV:18:ARG:HH21	43:BV:18:ARG:CB	2.20	0.54
45:BX:1:MET:HA	45:BX:33:LYS:CG	2.37	0.54
24:BA:2158:A:O2'	24:BA:2159:G:OP2	2.21	0.54
26:BC:192:PHE:O	26:BC:196:LEU:HB2	2.08	0.54
26:BC:225:ASN:OD1	26:BC:227:HIS:HB2	2.08	0.54
26:BC:225:ASN:C	26:BC:227:HIS:H	2.11	0.54
24:BA:1487:G:H2'	24:BA:1488:G:H8	1.72	0.54
18:AS:67:THR:HB	18:AS:70:ALA:CB	2.36	0.54
1:AA:1037:C:C4	1:AA:1038:C:N4	2.76	0.54
1:AA:1057:G:C4'	5:AF:197:GLY:H	2.16	0.54
1:AA:1104:G:C4	1:AA:1105:A:C8	2.96	0.54
1:AA:1134:G:C6	1:AA:1135:U:C1'	2.90	0.54
1:AA:1438:G:C5	1:AA:1439:C:C5	2.95	0.54
1:AA:152:A:H8	1:AA:152:A:H3'	1.72	0.54
1:AA:192:U:H4'	22:AW:103:GLY:N	2.23	0.54
1:AA:498:A:O2'	1:AA:500:G:C8	2.60	0.54
1:AA:622:A:H2'	1:AA:623:C:C5'	2.37	0.54
1:AA:647:C:O2'	1:AA:648:A:H5'	2.08	0.54
1:AA:778:G:C2'	1:AA:779:C:H5'	2.37	0.54
1:AA:791:G:H2'	1:AA:792:A:O4'	2.06	0.54
1:AA:833:U:HO2'	1:AA:834:C:H6	1.55	0.54
1:AA:848:C:C4	1:AA:849:C:C5	2.95	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:47:U:H3'	3:AC:47:U:H6	1.71	0.54
1:AA:1104:G:O2'	4:AE:111:ARG:NH2	2.38	0.54
4:AE:152:PHE:CD1	4:AE:152:PHE:C	2.81	0.54
4:AE:8:LYS:O	4:AE:9:GLU:HB2	2.06	0.54
5:AF:110:ASN:ND2	5:AF:140:ARG:O	2.40	0.54
5:AF:35:GLU:O	5:AF:39:ILE:HG13	2.07	0.54
6:AG:152:SER:HA	6:AG:155:LEU:HD21	1.88	0.54
6:AG:152:SER:HA	6:AG:155:LEU:CD2	2.37	0.54
6:AG:24:GLU:C	6:AG:24:GLU:CD	2.66	0.54
6:AG:52:SER:O	6:AG:53:ASP:C	2.45	0.54
7:AH:100:VAL:C	7:AH:101:ILE:HD13	2.27	0.54
7:AH:79:GLU:O	7:AH:80:ILE:HG23	2.07	0.54
8:AI:80:ARG:O	8:AI:81:ILE:C	2.45	0.54
10:AK:112:LEU:HD11	10:AK:114:THR:HG22	1.89	0.54
10:AK:10:LEU:CA	10:AK:13:ILE:HD12	2.37	0.54
7:AH:152:ARG:HH21	10:AK:44:PHE:N	2.06	0.54
10:AK:88:LYS:HZ3	10:AK:88:LYS:CB	2.20	0.54
1:AA:598:U:C4'	10:AK:94:TYR:CD2	2.86	0.54
11:AL:28:VAL:O	11:AL:29:ASN:C	2.44	0.54
1:AA:691:G:N2	13:AN:51:LYS:NZ	2.55	0.54
13:AN:66:LEU:O	13:AN:70:LYS:HD2	2.08	0.54
14:AO:53:ARG:NH2	14:AO:92:ASP:OD2	2.41	0.54
15:AP:34:LEU:HD23	15:AP:39:ILE:CD1	2.37	0.54
16:AQ:27:CYS:N	16:AQ:43:CYS:HB3	2.23	0.54
16:AQ:41:ARG:HA	16:AQ:44:LEU:HD23	1.90	0.54
17:AR:69:TYR:OH	17:AR:73:GLU:HG3	2.08	0.54
18:AS:4:ILE:HG12	18:AS:66:PRO:HA	1.88	0.54
19:AT:29:HIS:HE1	19:AT:31:LEU:HB3	1.72	0.54
22:AW:43:LEU:CD1	22:AW:51:GLU:HB2	2.37	0.54
22:AW:83:ARG:HA	22:AW:86:ARG:CD	2.38	0.54
24:BA:74:A:N1	48:B1:46:ARG:CD	2.70	0.54
50:B3:22:ILE:N	50:B3:22:ILE:HD12	2.23	0.54
50:B3:59:PHE:CD1	50:B3:60:GLN:HG2	2.41	0.54
50:B3:57:GLU:CA	50:B3:61:ARG:CZ	2.85	0.54
55:B8:17:ILE:HB	55:B8:24:TYR:O	2.06	0.54
24:BA:1027:A:H2'	24:BA:1028:A:C8	2.41	0.54
24:BA:1128:A:O2'	24:BA:1129:A:H5'	2.07	0.54
24:BA:1201:C:H42	24:BA:1241:A:N6	2.03	0.54
24:BA:1287:A:H5'	38:BQ:104:ARG:CG	2.38	0.54
24:BA:12:U:O2	24:BA:2627:G:OP1	2.25	0.54
24:BA:1353:A:H2'	24:BA:1354:A:O4'	2.07	0.54
24:BA:1374:G:C5	24:BA:1375:C:C5	2.96	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1469:A:H2'	24:BA:1470:G:H5'	1.88	0.54
24:BA:1477:A:H4'	24:BA:1478:G:OP2	2.07	0.54
24:BA:1526:G:N2	24:BA:1546:C:N3	2.54	0.54
24:BA:1605:C:H3'	24:BA:1606:G:H8	1.72	0.54
24:BA:1618:A:O2'	24:BA:1619:G:OP1	2.18	0.54
24:BA:1672:C:O2	24:BA:2582:G:C1'	2.55	0.54
24:BA:1681:G:C6	24:BA:1762:A:N7	2.76	0.54
24:BA:1785:A:O5'	24:BA:1982:C:C4'	2.52	0.54
24:BA:188:G:OP2	50:B3:13:ARG:NH2	2.40	0.54
24:BA:1914:C:N3	24:BA:1915:U:H5	2.06	0.54
24:BA:204:A:H5'	24:BA:206:U:O4'	2.06	0.54
24:BA:2208:U:H1'	24:BA:2217:G:H1	1.70	0.54
24:BA:2209:C:H3'	24:BA:2209:C:C6	2.42	0.54
24:BA:2227:A:H4'	27:BD:262:ARG:CG	2.34	0.54
24:BA:2447:G:C4	24:BA:2500:U:C4	2.94	0.54
24:BA:2519:U:H2'	24:BA:2519:U:O2	2.08	0.54
24:BA:2527:C:O2'	24:BA:2528:U:H5'	2.08	0.54
24:BA:2554:U:H5	24:BA:2556:C:N3	2.06	0.54
24:BA:2703:C:C2'	24:BA:2704:C:O5'	2.56	0.54
24:BA:271(B):G:C5'	24:BA:271(C):U:O4'	2.53	0.54
24:BA:2747:G:N2	24:BA:2754:U:H3	2.04	0.54
24:BA:2848:G:H21	24:BA:2849:U:H3	1.51	0.54
24:BA:584:C:H2'	24:BA:585:G:C5'	2.36	0.54
24:BA:64:A:H5''	44:BW:73:ARG:HA	1.86	0.54
24:BA:655:A:H5'	24:BA:656:G:OP1	2.07	0.54
25:BB:45:A:C5	25:BB:46:A:C5	2.95	0.54
25:BB:5:C:H2'	25:BB:6:C:C6	2.43	0.54
24:BA:1566:A:C5	27:BD:215:LEU:HD22	2.42	0.54
27:BD:239:ARG:N	27:BD:239:ARG:CD	2.70	0.54
27:BD:50:THR:C	27:BD:51:VAL:CG2	2.76	0.54
27:BD:58:HIS:CD2	27:BD:215:LEU:HA	2.42	0.54
27:BD:63:ARG:HG2	27:BD:65:ILE:HG12	1.88	0.54
28:BE:115:GLY:O	28:BE:117:MET:N	2.41	0.54
28:BE:104:VAL:HG11	28:BE:198:VAL:HG22	1.88	0.54
29:BF:106:ARG:CG	29:BF:107:LYS:N	2.65	0.54
32:BK:25:TYR:C	32:BK:30:LEU:HD23	2.28	0.54
33:BL:24:GLY:HA2	33:BL:34:ILE:CG2	2.37	0.54
34:BM:99:LEU:HD12	34:BM:103:VAL:CG1	2.37	0.54
34:BM:69:GLN:OE1	34:BM:87:LEU:HD13	2.08	0.54
35:BN:106:LEU:HA	35:BN:111:PHE:CE1	2.42	0.54
35:BN:21:CYS:SG	35:BN:22:ILE:N	2.80	0.54
35:BN:47:ILE:O	35:BN:48:PRO:C	2.45	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BO:138:LEU:HD13	36:BO:139:LYS:N	2.22	0.54
37:BP:27:VAL:CG1	37:BP:104:PHE:CE2	2.91	0.54
37:BP:85:LYS:CE	37:BP:88:GLY:HA3	2.36	0.54
38:BQ:53:HIS:C	38:BQ:56:LYS:HG3	2.27	0.54
41:BT:113:ALA:HA	41:BT:116:ALA:HB2	1.90	0.54
41:BT:32:PHE:HB3	41:BT:36:ARG:HH21	1.72	0.54
42:BU:75:PHE:N	42:BU:75:PHE:CD1	2.76	0.54
43:BV:21:VAL:HG13	43:BV:75:TYR:CD2	2.42	0.54
44:BW:30:VAL:HG23	44:BW:77:LYS:HD3	1.89	0.54
44:BW:50:LYS:HG3	44:BW:84:ALA:H	1.71	0.54
47:BZ:27:GLU:OE1	47:BZ:27:GLU:HA	2.06	0.54
32:BK:93:THR:HG22	32:BK:96:ASP:H	1.71	0.54
24:BA:2135:A:OP2	24:BA:2160:G:H5'	2.07	0.54
24:BA:2114:A:N6	24:BA:2170:A:H61	2.06	0.54
3:AD:39:U:H2'	3:AD:40:C:O4'	2.06	0.54
24:BA:2190:G:C2	24:BA:2191:G:C8	2.96	0.54
34:BM:139:GLU:C	34:BM:139:GLU:OE2	2.45	0.54
24:BA:1563:G:O2'	24:BA:1564:C:H5'	2.07	0.54
27:BD:273:ARG:CZ	27:BD:273:ARG:O	2.55	0.54
1:AA:1058:G:O5'	1:AA:1058:G:H8	1.91	0.54
1:AA:153:C:C2	1:AA:154:C:C5	2.96	0.54
1:AA:265:G:C4	1:AA:267:C:C6	2.96	0.54
1:AA:307:C:H2'	1:AA:307:C:O2	2.06	0.54
1:AA:362:G:H2'	1:AA:364:A:OP2	2.07	0.54
1:AA:397:A:C2	1:AA:548:G:C6	2.96	0.54
1:AA:446:G:H2'	1:AA:447:G:C8	2.42	0.54
1:AA:519:C:C4	1:AA:520:A:N3	2.76	0.54
1:AA:553:A:C2	1:AA:554:C:C2	2.96	0.54
1:AA:563:A:C5	1:AA:567:G:H1'	2.42	0.54
1:AA:628:G:H2'	1:AA:629:G:O4'	2.08	0.54
1:AA:714:G:HO2'	1:AA:777:A:N6	2.06	0.54
1:AA:861:G:H2'	1:AA:862:C:C6	2.43	0.54
1:AA:9:G:C2	1:AA:26:A:C2	2.96	0.54
3:AC:46:G:OP2	3:AC:46:G:C8	2.61	0.54
5:AF:18:TRP:CZ2	16:AQ:57:ARG:HB2	2.43	0.54
5:AF:193:TYR:HD2	5:AF:193:TYR:N	2.05	0.54
1:AA:407:G:H5''	6:AG:115:ARG:HD2	1.90	0.54
6:AG:105:VAL:CG2	6:AG:121:VAL:HG22	2.29	0.54
6:AG:172:PRO:CG	6:AG:193:ASP:HB3	2.37	0.54
6:AG:200:GLU:CG	6:AG:201:GLN:N	2.68	0.54
1:AA:427:U:OP1	6:AG:41:GLY:N	2.36	0.54
6:AG:6:GLY:O	6:AG:8:VAL:HG22	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AH:106:PRO:CG	7:AH:122:GLU:OE2	2.56	0.54
7:AH:45:PHE:CD1	7:AH:45:PHE:O	2.61	0.54
8:AI:77:ARG:HA	8:AI:80:ARG:HE	1.71	0.54
10:AK:41:ARG:CZ	10:AK:41:ARG:HB3	2.38	0.54
10:AK:4:ASP:O	10:AK:5:PRO:C	2.45	0.54
10:AK:69:ARG:HH11	10:AK:69:ARG:HG3	1.72	0.54
14:AO:100:ILE:HD13	14:AO:100:ILE:H	1.71	0.54
14:AO:48:PRO:CG	14:AO:49:ASN:N	2.70	0.54
14:AO:50:SER:O	14:AO:51:ALA:CB	2.55	0.54
14:AO:60:LEU:HD13	14:AO:64:TYR:O	2.06	0.54
15:AP:60:VAL:HG22	15:AP:64:TRP:HE3	1.72	0.54
15:AP:69:GLU:O	15:AP:71:ARG:N	2.41	0.54
16:AQ:23:ARG:C	16:AQ:33:VAL:HG11	2.28	0.54
20:AU:45:SER:HB3	20:AU:51:LEU:CD1	2.31	0.54
20:AU:62:GLU:O	20:AU:63:GLN:C	2.45	0.54
21:AV:19:VAL:HG22	21:AV:43:GLU:CD	2.27	0.54
22:AW:22:ARG:O	22:AW:26:ASN:OD1	2.26	0.54
22:AW:83:ARG:HA	22:AW:86:ARG:HD3	1.90	0.54
22:AW:87:LYS:O	22:AW:91:LEU:HG	2.08	0.54
24:BA:2623:G:H21	51:B4:22:HIS:CE1	2.23	0.54
52:B5:12:GLU:HG3	52:B5:53:LYS:O	2.07	0.54
52:B5:7:ILE:HG22	52:B5:8:LYS:N	2.22	0.54
24:BA:1178:C:O2'	24:BA:1179:C:O5'	2.24	0.54
24:BA:1246:A:OP2	36:BO:15:ARG:CZ	2.55	0.54
24:BA:1497:U:O4	24:BA:1577:C:H4'	2.08	0.54
24:BA:1556:C:C2	24:BA:1557:C:C5	2.96	0.54
24:BA:1670:C:H3'	24:BA:1671:U:C5	2.43	0.54
24:BA:1684:C:C4	24:BA:1705:G:C2	2.96	0.54
24:BA:1718:G:N2	24:BA:1742:C:C4	2.75	0.54
24:BA:1725:G:N2	24:BA:1726:G:O4'	2.40	0.54
24:BA:1728:G:H1	24:BA:1733:G:H22	1.56	0.54
24:BA:1882:C:H2'	24:BA:1883:G:C5'	2.37	0.54
24:BA:2058:A:N1	24:BA:2059:A:N6	2.52	0.54
24:BA:2210:G:O6	27:BD:150:LYS:CA	2.55	0.54
24:BA:2215:G:O5'	24:BA:2215:G:H8	1.91	0.54
24:BA:2271:G:H5'	47:BZ:20:ARG:HH12	1.71	0.54
24:BA:2273:A:N7	24:BA:2274:A:C8	2.75	0.54
24:BA:2277:G:H5''	47:BZ:12:ASN:HD21	1.70	0.54
24:BA:2392:A:C2	24:BA:2429:G:N3	2.75	0.54
24:BA:2552:U:C2	24:BA:2554:U:H5''	2.42	0.54
24:BA:2653:U:P	24:BA:2654:A:H3'	2.48	0.54
24:BA:270(X):G:O3'	24:BA:272:G:H4'	2.08	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2730:C:H4'	28:BE:169:ASN:O	2.06	0.54
24:BA:2737:G:N1	24:BA:2768:C:N4	2.56	0.54
24:BA:448:U:O2'	24:BA:449:A:OP1	2.23	0.54
24:BA:460:A:C8	24:BA:461:C:C5	2.96	0.54
24:BA:463:G:N2	24:BA:467:G:C5	2.76	0.54
24:BA:497:A:H2'	24:BA:498:G:C8	2.43	0.54
24:BA:578:A:H2	41:BT:34:LYS:NZ	2.03	0.54
24:BA:627:A:N6	24:BA:636:G:O2'	2.39	0.54
24:BA:630:G:H5''	54:B7:46:ARG:CZ	2.36	0.54
24:BA:675:A:H2'	24:BA:676:A:C2	2.43	0.54
24:BA:728:G:C6	24:BA:762:U:C3'	2.90	0.54
24:BA:75:G:O2'	48:B1:50:ARG:NH1	2.40	0.54
24:BA:826:U:C2	24:BA:828:U:C6	2.95	0.54
24:BA:861:A:C6	24:BA:917:A:C2	2.95	0.54
24:BA:942:G:H3'	36:BO:32:THR:HG22	1.86	0.54
24:BA:996:A:C2	24:BA:997:G:N7	2.76	0.54
25:BB:30:C:C1'	25:BB:58:A:H2	2.21	0.54
25:BB:51:G:N7	39:BR:32:LEU:HD21	2.21	0.54
24:BA:1491:G:H4'	27:BD:72:LYS:NZ	2.22	0.54
28:BE:149:ARG:HH11	28:BE:151:TYR:HA	1.71	0.54
28:BE:154:LYS:NZ	28:BE:156:MET:HE2	2.19	0.54
29:BF:189:THR:O	29:BF:190:GLU:C	2.46	0.54
30:BG:174:GLU:HG2	30:BG:175:LEU:N	2.21	0.54
30:BG:29:TRP:C	30:BG:31:VAL:HG23	2.27	0.54
31:BH:161:GLY:C	31:BH:163:TYR:CE1	2.81	0.54
31:BH:7:LEU:HD13	31:BH:65:HIS:CE1	2.42	0.54
31:BH:74:ASN:ND2	31:BH:75:ALA:H	2.05	0.54
31:BH:8:PRO:HA	31:BH:51:ARG:CZ	2.37	0.54
35:BN:35:VAL:HA	35:BN:61:VAL:HG12	1.89	0.54
36:BO:74:GLU:CB	36:BO:107:LYS:NZ	2.70	0.54
36:BO:79:ARG:O	36:BO:83:VAL:HG22	2.07	0.54
37:BP:118:LEU:CB	37:BP:131:ILE:HD13	2.37	0.54
38:BQ:22:ARG:HA	38:BQ:47:PHE:HE2	1.72	0.54
38:BQ:61:HIS:C	38:BQ:64:ARG:HH11	2.10	0.54
40:BS:110:ILE:HD12	40:BS:113:LYS:CE	2.37	0.54
40:BS:26:ASP:HA	40:BS:100:TYR:HH	1.73	0.54
40:BS:44:ASP:C	40:BS:46:GLU:N	2.59	0.54
40:BS:30:VAL:HB	40:BS:91:ARG:H	1.73	0.54
24:BA:1161:C:C1'	42:BU:22:VAL:HG11	2.34	0.54
42:BU:33:VAL:O	42:BU:63:GLY:HA2	2.08	0.54
44:BW:82:GLN:HG2	44:BW:83:VAL:N	2.23	0.54
44:BW:49:VAL:HG12	44:BW:88:LYS:HB2	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:BX:14:LEU:HB2	45:BX:20:TYR:H	1.72	0.54
45:BX:45:VAL:C	45:BX:57:GLN:HG2	2.28	0.54
46:BY:110:GLY:HA3	46:BY:144:LEU:HD12	1.89	0.54
46:BY:129:SER:CB	46:BY:133:ILE:HG22	2.36	0.54
46:BY:159:PRO:O	46:BY:161:VAL:N	2.34	0.54
47:BZ:27:GLU:OE1	47:BZ:28:GLY:N	2.39	0.54
47:BZ:40:GLN:HE22	47:BZ:43:THR:HA	1.72	0.54
26:BC:89:ALA:C	26:BC:154:ARG:HA	2.28	0.54
26:BC:10:LEU:CD1	26:BC:32:LEU:CD2	2.85	0.54
26:BC:39:GLU:HB3	26:BC:178:ALA:CB	2.37	0.54
1:AA:1009:G:H2'	1:AA:1010:G:H8	1.73	0.54
24:BA:1582:C:C3'	24:BA:1583:A:O4'	2.56	0.54
1:AA:806:C:O2'	1:AA:807:A:H5'	2.07	0.54
2:A1:36:U:O2	9:AJ:82:GLY:HA2	2.08	0.54
1:AA:1057:G:OP1	5:AF:155:GLY:CA	2.56	0.54
1:AA:1099:G:C5	1:AA:1100:C:C5	2.95	0.54
1:AA:1201:A:C2'	1:AA:1202:G:OP2	2.55	0.54
1:AA:1057:G:C5	1:AA:1204:A:C2	2.96	0.54
1:AA:129(A):G:C8	1:AA:129(A):G:C3'	2.89	0.54
1:AA:1350:A:P	11:AL:118:LYS:HG3	2.48	0.54
1:AA:1363:A:H5''	1:AA:1364:U:C5	2.43	0.54
1:AA:1512:U:C2	1:AA:1513:A:N7	2.76	0.54
1:AA:1513:A:N1	1:AA:1523:G:C6	2.76	0.54
1:AA:46:G:N2	1:AA:366:C:H1'	2.22	0.54
1:AA:859:A:N7	1:AA:860:A:C4	2.76	0.54
1:AA:862:C:C2	1:AA:863:U:H5	2.24	0.54
1:AA:965:A:O2'	1:AA:966:G:O5'	2.24	0.54
1:AA:970:C:O2	15:AP:126:LYS:HD2	2.07	0.54
3:AC:10:G:C6	3:AC:11:C:C4	2.95	0.54
4:AE:100:GLY:O	4:AE:104:ASN:ND2	2.41	0.54
4:AE:46:LYS:HA	4:AE:46:LYS:CE	2.34	0.54
4:AE:64:ARG:H	4:AE:64:ARG:CD	2.20	0.54
5:AF:123:GLN:HB3	5:AF:128:PHE:CE2	2.41	0.54
5:AF:135:LYS:NZ	7:AH:52:PRO:HG2	2.23	0.54
5:AF:30:ARG:HD3	5:AF:30:ARG:H	1.71	0.54
6:AG:101:LEU:O	6:AG:104:VAL:CG2	2.40	0.54
6:AG:30:LYS:HG2	6:AG:35:ARG:CG	2.38	0.54
6:AG:13:ARG:NH1	6:AG:38:TYR:CE1	2.75	0.54
7:AH:136:MET:CA	7:AH:139:LEU:HD12	2.38	0.54
8:AI:36:ARG:CB	8:AI:36:ARG:CZ	2.85	0.54
9:AJ:87:VAL:HB	9:AJ:156:TRP:CH2	2.42	0.54
10:AK:110:ALA:O	10:AK:120:THR:HA	2.08	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AK:112:LEU:CB	10:AK:133:LEU:HA	2.37	0.54
1:AA:1151:A:H1'	12:AM:39:PRO:HB2	1.90	0.54
13:AN:115:PRO:O	13:AN:116:HIS:ND1	2.40	0.54
15:AP:91:ARG:HH12	15:AP:103:THR:CG2	2.19	0.54
17:AR:27:VAL:O	17:AR:28:GLN:C	2.45	0.54
18:AS:6:LEU:CD2	18:AS:17:TYR:CD2	2.85	0.54
21:AV:36:ARG:NH2	21:AV:51:VAL:HG12	2.23	0.54
21:AV:58:VAL:HG21	21:AV:75:ALA:HB1	1.89	0.54
49:B2:50:VAL:HG12	49:B2:51:ALA:O	2.08	0.54
49:B2:52:HIS:C	49:B2:54:VAL:N	2.58	0.54
52:B5:9:LEU:O	52:B5:10:LEU:HD23	2.08	0.54
53:B6:8:ASN:ND2	53:B6:8:ASN:C	2.60	0.54
54:B7:36:LYS:O	54:B7:37:SER:HB3	2.08	0.54
54:B7:58:ILE:HA	54:B7:61:LEU:HD12	1.90	0.54
54:B7:5:LYS:HA	54:B7:59:LYS:O	2.08	0.54
24:BA:1031:G:C5	24:BA:1032:A:N7	2.75	0.54
24:BA:1050:A:H2'	24:BA:1051:G:C5'	2.38	0.54
24:BA:1068:G:H1'	24:BA:1069:A:C5	2.42	0.54
24:BA:1047:G:N2	24:BA:1110:G:H2'	2.23	0.54
24:BA:1269:A:O5'	24:BA:1269:A:C8	2.59	0.54
24:BA:1348:G:N1	24:BA:1599:C:C2	2.76	0.54
24:BA:1343:G:O6	24:BA:1404:C:N3	2.40	0.54
24:BA:1406:U:C2'	24:BA:1407:C:O5'	2.56	0.54
24:BA:1470:G:H2'	24:BA:1519:G:O6	2.07	0.54
24:BA:1566:A:C2'	24:BA:1567:A:H5'	2.35	0.54
24:BA:1571:A:C8	24:BA:1571:A:OP2	2.60	0.54
24:BA:1683:C:H2'	24:BA:1684:C:C6	2.42	0.54
24:BA:1696:G:H2'	24:BA:1697:G:O4'	2.08	0.54
24:BA:1689:A:C5	24:BA:1700:A:C5	2.96	0.54
24:BA:1787:A:H8	24:BA:1787:A:O5'	1.91	0.54
24:BA:1799:G:H5''	27:BD:264:LYS:HZ3	1.73	0.54
24:BA:1930:G:H2'	24:BA:1968:G:O6	2.06	0.54
24:BA:1950:G:N7	24:BA:1951:U:H5	2.01	0.54
24:BA:1988:C:C2'	24:BA:1989:G:O5'	2.56	0.54
24:BA:1997:G:C2	24:BA:1998:G:C4	2.96	0.54
24:BA:2472:G:H2'	24:BA:2475:C:H42	1.73	0.54
24:BA:570:G:H1	24:BA:2498:C:C3'	2.19	0.54
24:BA:1127:A:N1	24:BA:2518:A:N3	2.55	0.54
24:BA:2558:C:H2'	24:BA:2558:C:O2	2.06	0.54
24:BA:2056:G:C4	24:BA:2577:A:C2	2.95	0.54
24:BA:2075:U:C1'	24:BA:2597:G:N2	2.71	0.54
24:BA:269:U:H2'	24:BA:269:U:O2	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:271:G:N3	24:BA:272:G:C8	2.75	0.54
24:BA:2720:U:C4	24:BA:2873:A:N6	2.73	0.54
24:BA:527:C:C5	24:BA:2780:G:OP1	2.60	0.54
24:BA:2786:U:H2'	24:BA:2787:C:H6	1.72	0.54
24:BA:2857:G:H3'	24:BA:2857:G:C8	2.43	0.54
24:BA:2882:A:C2	24:BA:2883:A:C8	2.95	0.54
24:BA:350:U:C2'	24:BA:350:U:O2	2.44	0.54
24:BA:507:A:H5'	24:BA:509:C:C1'	2.37	0.54
24:BA:509:C:H2'	24:BA:510:C:OP2	2.08	0.54
24:BA:27:G:C2	24:BA:512:G:H2'	2.41	0.54
24:BA:819:A:N6	24:BA:1188:U:H3	2.04	0.54
24:BA:951:C:C2'	24:BA:952:G:H5'	2.37	0.54
24:BA:1820:U:H2'	27:BD:202:LYS:NZ	2.23	0.54
27:BD:242:ARG:O	27:BD:244:ARG:HG2	2.08	0.54
27:BD:50:THR:O	27:BD:51:VAL:HG22	2.07	0.54
28:BE:119:ARG:CZ	28:BE:155:LYS:CB	2.81	0.54
28:BE:8:LYS:CE	28:BE:8:LYS:CA	2.78	0.54
29:BF:74:ARG:HH12	29:BF:76:GLY:N	2.06	0.54
30:BG:170:ARG:O	30:BG:171:ALA:C	2.46	0.54
24:BA:2746:U:C4'	31:BH:139:GLN:HA	2.38	0.54
33:BL:8:VAL:HG11	33:BL:27:LEU:HD23	1.90	0.54
34:BM:51:PHE:CD1	34:BM:119:ARG:HB2	2.43	0.54
34:BM:34:LEU:HA	34:BM:49:GLY:C	2.28	0.54
35:BN:59:LYS:CA	35:BN:59:LYS:HE2	2.38	0.54
37:BP:12:GLN:NE2	37:BP:12:GLN:C	2.61	0.54
37:BP:42:ILE:CD1	37:BP:43:THR:O	2.55	0.54
24:BA:873:G:O2'	37:BP:65:PHE:CZ	2.59	0.54
40:BS:2:ASN:O	40:BS:6:LEU:HD22	2.07	0.54
40:BS:76:PHE:HZ	40:BS:78:LEU:HD12	1.70	0.54
41:BT:6:THR:O	41:BT:9:VAL:HB	2.07	0.54
41:BT:76:TYR:HD2	41:BT:80:ILE:HD11	1.63	0.54
41:BT:94:ASN:ND2	42:BU:6:LYS:CE	2.61	0.54
41:BT:91:ASP:OD1	42:BU:10:LYS:HD3	2.07	0.54
42:BU:50:PRO:CB	42:BU:53:GLU:OE1	2.55	0.54
43:BV:8:ARG:O	43:BV:10:VAL:HG22	2.08	0.54
45:BX:46:LYS:HZ1	45:BX:49:VAL:CG2	2.20	0.54
46:BY:141:VAL:HG12	46:BY:142:SER:N	2.22	0.54
46:BY:87:ASP:OD2	46:BY:87:ASP:N	2.39	0.54
47:BZ:21:LEU:CD1	47:BZ:41:ARG:HG2	2.35	0.54
47:BZ:53:MET:HE3	47:BZ:59:LEU:N	2.22	0.54
32:BK:53:ALA:HB1	32:BK:57:ARG:NH2	2.22	0.54
32:BK:86:THR:CG2	32:BK:87:LYS:H	2.16	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2134:A:C2	24:BA:2135:A:N1	2.76	0.54
24:BA:2118:U:OP1	24:BA:2147:G:N1	2.40	0.54
24:BA:1581:G:O2'	24:BA:1582:C:H5'	2.07	0.54
33:BL:98:ARG:HD3	33:BL:139:VAL:CG1	2.37	0.54
24:BA:2671:A:OP2	28:BE:206:LYS:HD2	2.07	0.54
24:BA:489:G:C5	24:BA:1284:A:C2	2.95	0.54
24:BA:1562:A:O2'	24:BA:1563:G:H5'	2.07	0.54
1:AA:1036:G:N7	1:AA:1037:C:C5	2.76	0.54
1:AA:1055:A:N1	1:AA:1056:U:H1'	2.23	0.54
1:AA:1215:G:C2	1:AA:1216:G:N7	2.76	0.54
1:AA:1283:G:H2'	1:AA:1284:C:H5'	1.90	0.54
1:AA:133:U:H4'	1:AA:134:A:OP1	2.08	0.54
1:AA:1342:C:H2'	1:AA:1343:G:H8	1.72	0.54
1:AA:1361:G:H3'	1:AA:1361:G:C8	2.43	0.54
1:AA:1365:G:C6	1:AA:1366:C:C4	2.95	0.54
1:AA:280:C:H1'	19:AT:38:ARG:CZ	2.38	0.54
1:AA:278:G:C1'	1:AA:282:A:H1'	2.38	0.54
1:AA:290:C:C2'	1:AA:291:C:H5'	2.38	0.54
1:AA:493:G:H2'	1:AA:494:U:C5	2.41	0.54
1:AA:522:C:H1'	1:AA:536:C:C5'	2.37	0.54
1:AA:540:G:O6	1:AA:541:G:C6	2.60	0.54
1:AA:541:G:H2'	1:AA:542:G:H8	1.72	0.54
1:AA:920:U:H2'	1:AA:921:U:H6	1.72	0.54
1:AA:946:A:H2'	1:AA:947:G:H8	1.63	0.54
1:AA:968:A:H2'	1:AA:968:A:N3	2.22	0.54
1:AA:974:A:OP2	16:AQ:31:ARG:CG	2.49	0.54
1:AA:979:C:OP2	1:AA:980:C:C5	2.61	0.54
4:AE:47:THR:HG1	4:AE:202:PRO:HG2	1.72	0.54
5:AF:110:ASN:HD21	5:AF:140:ARG:CG	2.19	0.54
5:AF:29:TYR:CD1	16:AQ:36:PHE:CZ	2.95	0.54
6:AG:99:SER:O	6:AG:140:VAL:HG23	2.08	0.54
8:AI:100:ASN:OD1	20:AU:26:LEU:O	2.25	0.54
8:AI:12:PRO:CB	8:AI:57:GLN:HE21	2.20	0.54
8:AI:52:ILE:CG2	8:AI:53:ALA:N	2.71	0.54
8:AI:80:ARG:CB	8:AI:88:VAL:HG21	2.38	0.54
9:AJ:86:GLN:HB2	9:AJ:148:ASN:CG	2.28	0.54
10:AK:111:ILE:HG23	10:AK:119:LEU:O	2.07	0.54
10:AK:6:ILE:HD12	10:AK:7:ALA:N	2.23	0.54
10:AK:7:ALA:O	10:AK:8:ASP:C	2.46	0.54
11:AL:67:GLY:C	11:AL:73:GLN:HE21	2.11	0.54
11:AL:70:LYS:HD2	11:AL:70:LYS:N	2.22	0.54
13:AN:99:GLN:HA	13:AN:105:VAL:CG1	2.37	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AO:48:PRO:HG2	14:AO:49:ASN:N	2.21	0.54
1:AA:520:A:OP1	14:AO:52:LEU:HD21	2.07	0.54
1:AA:1227:A:P	15:AP:111:LYS:HE3	2.48	0.54
15:AP:27:LYS:HD2	15:AP:31:LYS:HZ2	1.68	0.54
1:AA:1316:G:H5''	16:AQ:17:LYS:HZ2	1.73	0.54
19:AT:16:GLN:O	19:AT:17:LYS:CB	2.55	0.54
10:AK:91:ARG:CG	19:AT:34:LYS:HB2	2.27	0.54
19:AT:51:TYR:CD2	19:AT:57:VAL:HG11	2.43	0.54
19:AT:44:ALA:CA	19:AT:71:PHE:O	2.55	0.54
1:AA:735:C:H5'	20:AU:71:LYS:CD	2.38	0.54
23:AX:14:TRP:HZ3	23:AX:15:ARG:NE	2.02	0.54
48:B1:56:LEU:N	48:B1:56:LEU:CD1	2.70	0.54
50:B3:43:TYR:O	50:B3:44:THR:OG1	2.21	0.54
24:BA:1043:C:O2'	24:BA:1048:A:H1'	2.08	0.54
24:BA:1100:C:O5'	24:BA:1100:C:C6	2.61	0.54
24:BA:1174:A:H2	24:BA:1176:G:O5'	1.91	0.54
24:BA:1195:G:O2'	24:BA:1226:G:N2	2.39	0.54
24:BA:1267:U:O2'	24:BA:1268:A:OP1	2.19	0.54
24:BA:1519:G:C2'	24:BA:1520:U:O4'	2.55	0.54
24:BA:1534:G:N2	24:BA:1537:C:C5	2.61	0.54
24:BA:1621:U:C6	24:BA:1621:U:H3'	2.43	0.54
24:BA:1663:C:O2'	24:BA:1664:A:O4'	2.24	0.54
24:BA:1710:C:O2'	24:BA:2858:C:N4	2.41	0.54
24:BA:1783:A:OP2	24:BA:1783:A:C8	2.59	0.54
24:BA:1806:C:C2	24:BA:1807:G:C8	2.96	0.54
24:BA:1842:G:C4	24:BA:1843:C:C5	2.96	0.54
24:BA:1951:U:C2	24:BA:1953:A:H5'	2.43	0.54
24:BA:195:A:H5''	24:BA:196:A:OP2	2.07	0.54
24:BA:1764:G:C6	24:BA:1989:G:C2	2.96	0.54
24:BA:2092:U:H4'	24:BA:2225:A:C2	2.42	0.54
24:BA:2227:A:C6	24:BA:2228:G:N7	2.76	0.54
24:BA:2266:A:H5'	24:BA:2267:A:C4	2.42	0.54
24:BA:2285:C:C2	24:BA:2384:G:N2	2.75	0.54
24:BA:2436:G:O2'	24:BA:2437:U:P	2.66	0.54
24:BA:2462:U:C4	24:BA:2463:C:N4	2.76	0.54
24:BA:2510:C:N4	24:BA:2511:U:C4	2.76	0.54
24:BA:2519:U:C1'	24:BA:2542:A:N1	2.71	0.54
3:AB:75:C:H42	24:BA:2553:G:H1	1.56	0.54
24:BA:2574:G:H2'	24:BA:2575:C:C6	2.43	0.54
24:BA:2677:G:C2'	24:BA:2678:C:H5'	2.38	0.54
24:BA:2749:A:OP2	24:BA:2751:G:OP2	2.26	0.54
24:BA:2776:A:C4'	24:BA:2777:G:H5''	2.37	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2808:U:O2'	24:BA:2810:A:OP1	2.26	0.54
24:BA:2856:C:H2'	24:BA:2857:G:O5'	2.08	0.54
24:BA:2834:G:C4	24:BA:2879:C:C4	2.96	0.54
24:BA:292:C:C2'	24:BA:293:U:H3	2.20	0.54
24:BA:763:G:H5'	27:BD:211:ARG:CZ	2.38	0.54
24:BA:775:G:O4'	24:BA:777:A:C2	2.60	0.54
24:BA:764:A:C4	24:BA:781:A:N6	2.76	0.54
24:BA:856:C:H4'	47:BZ:69:PHE:HB3	1.89	0.54
24:BA:859:G:O2'	24:BA:860:U:H5''	2.07	0.54
24:BA:864:G:N2	24:BA:913:U:H1'	2.22	0.54
24:BA:977:G:H4'	24:BA:1155:A:H5''	1.90	0.54
25:BB:37:C:O2	39:BR:95:HIS:CD2	2.61	0.54
27:BD:132:PRO:HA	27:BD:190:TYR:CD1	2.42	0.54
28:BE:109:LYS:CG	28:BE:191:PRO:HG3	2.25	0.54
28:BE:27:LEU:HD13	28:BE:76:ARG:NH1	2.23	0.54
28:BE:51:PHE:HE1	28:BE:76:ARG:H	1.55	0.54
29:BF:3:GLU:OE1	29:BF:21:ALA:HA	2.08	0.54
30:BG:130:ASN:O	30:BG:161:THR:HG23	2.08	0.54
30:BG:55:LYS:CE	30:BG:151:ALA:HB1	2.36	0.54
30:BG:153:ARG:O	30:BG:155:MET:N	2.41	0.54
30:BG:40:ASN:O	30:BG:156:ASP:O	2.25	0.54
30:BG:82:LEU:O	30:BG:83:ARG:HG3	2.07	0.54
31:BH:35:VAL:CB	31:BH:72:ILE:HG23	2.37	0.54
32:BK:3:VAL:O	32:BK:18:VAL:HA	2.08	0.54
33:BL:20:ALA:O	33:BL:25:PRO:HD3	2.07	0.54
33:BL:18:THR:N	33:BL:38:VAL:CG2	2.70	0.54
34:BM:99:LEU:HD12	34:BM:100:GLU:CA	2.37	0.54
35:BN:20:MET:O	35:BN:41:ALA:HB1	2.07	0.54
35:BN:64:ARG:NE	35:BN:67:LYS:N	2.55	0.54
38:BQ:87:TYR:O	38:BQ:89:ASP:N	2.41	0.54
40:BS:57:PHE:O	40:BS:58:ASN:HB3	2.08	0.54
41:BT:88:ILE:HB	42:BU:52:VAL:CA	2.38	0.54
41:BT:83:LEU:O	41:BT:90:VAL:CG2	2.55	0.54
42:BU:21:ARG:N	42:BU:93:GLU:OE2	2.40	0.54
43:BV:24:ILE:O	43:BV:25:ARG:O	2.26	0.54
43:BV:38:TYR:N	43:BV:38:TYR:CD1	2.75	0.54
45:BX:35:TYR:OH	45:BX:67:LEU:HB2	2.07	0.54
45:BX:50:ARG:HA	45:BX:54:LYS:CA	2.32	0.54
47:BZ:37:LEU:HD21	47:BZ:60:PHE:C	2.28	0.54
24:BA:2160:G:O2'	24:BA:2161:C:O4'	2.26	0.54
26:BC:103:ILE:HA	26:BC:107:TRP:O	2.07	0.54
33:BL:138:VAL:HG23	33:BL:138:VAL:O	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BK:52:ARG:O	32:BK:55:ALA:HB3	2.07	0.54
51:B4:60:VAL:HG22	51:B4:60:VAL:O	2.08	0.54
1:AA:1068:G:H2'	1:AA:1069:C:C6	2.41	0.54
1:AA:110:C:H2'	1:AA:111:G:C5'	2.37	0.54
1:AA:1263:C:C2'	1:AA:1264:C:H6	2.16	0.54
1:AA:1277:C:O2'	1:AA:1279:A:C8	2.60	0.54
1:AA:1345:U:N3	1:AA:1377:A:C6	2.75	0.54
1:AA:1392:G:H2'	1:AA:1393:U:H6	1.73	0.54
1:AA:1446:A:O2'	1:AA:1447:G:OP1	2.25	0.54
1:AA:1465:C:N4	1:AA:1466:C:C4	2.75	0.54
1:AA:281:G:HO2'	1:AA:282:A:P	2.31	0.54
1:AA:321:A:H2'	1:AA:322:C:C6	2.43	0.54
1:AA:389:A:C4	1:AA:390:C:O4'	2.61	0.54
1:AA:450:G:H5''	1:AA:451:A:H3'	1.90	0.54
1:AA:474:G:H5'	18:AS:81:ARG:CD	2.36	0.54
1:AA:451:A:OP1	1:AA:481:G:N2	2.40	0.54
1:AA:486:U:N3	1:AA:487:A:C8	2.76	0.54
1:AA:27:G:C2	1:AA:557:G:N3	2.75	0.54
1:AA:600:C:H5'	10:AK:129:VAL:CA	2.38	0.54
1:AA:738:C:N4	1:AA:739:C:N4	2.56	0.54
1:AA:769:G:C5'	1:AA:1513:A:H4'	2.37	0.54
1:AA:789:U:H2'	1:AA:790:A:H3'	1.90	0.54
3:AB:48:C:N3	3:AB:59:U:C6	2.75	0.54
4:AE:212:GLN:O	4:AE:213:LEU:C	2.43	0.54
4:AE:221:LEU:HD22	4:AE:221:LEU:O	2.07	0.54
6:AG:8:VAL:C	6:AG:10:ARG:N	2.59	0.54
6:AG:38:TYR:CE1	6:AG:45:GLN:NE2	2.70	0.54
7:AH:35:GLY:HA3	7:AH:41:VAL:HG12	1.89	0.54
7:AH:80:ILE:HA	7:AH:81:GLU:OE2	2.07	0.54
9:AJ:107:ALA:CB	9:AJ:123:GLU:OE1	2.56	0.54
9:AJ:5:ARG:NH1	9:AJ:5:ARG:O	2.41	0.54
9:AJ:75:VAL:HA	9:AJ:89:MET:CE	2.37	0.54
10:AK:70:GLN:HA	10:AK:70:GLN:HE21	1.72	0.54
11:AL:93:ARG:HH22	11:AL:97:LYS:HE2	1.73	0.54
14:AO:7:ILE:HG22	14:AO:8:ASN:N	2.23	0.54
15:AP:20:THR:HG23	15:AP:25:ILE:O	2.07	0.54
1:AA:1316:G:C4'	16:AQ:17:LYS:HD2	2.36	0.54
17:AR:79:ARG:HB3	17:AR:79:ARG:HH11	1.73	0.54
17:AR:29:VAL:HG12	17:AR:85:LEU:HD21	1.89	0.54
18:AS:20:VAL:HG12	18:AS:21:VAL:N	2.21	0.54
18:AS:61:SER:OG	18:AS:62:VAL:N	2.39	0.54
20:AU:44:LEU:O	20:AU:45:SER:OG	2.21	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:B1:63:ARG:NH2	48:B1:63:ARG:HB3	2.22	0.54
51:B4:19:ARG:C	51:B4:21:SER:N	2.61	0.54
52:B5:12:GLU:CG	52:B5:53:LYS:O	2.56	0.54
24:BA:1031:G:N1	24:BA:1032:A:C6	2.75	0.54
24:BA:1093:G:N2	24:BA:1098:A:H62	2.06	0.54
24:BA:1213:A:C6	24:BA:1237:A:H1'	2.42	0.54
24:BA:1401:G:C6	24:BA:1402:C:C4	2.95	0.54
24:BA:149:A:C8	24:BA:149:A:H3'	2.43	0.54
24:BA:1480:G:C6	24:BA:1514:U:O4	2.60	0.54
24:BA:1613:G:OP1	53:B6:5:TRP:CD1	2.61	0.54
24:BA:1637:A:C6	24:BA:1638:C:N4	2.76	0.54
24:BA:1655:A:N3	24:BA:1656:C:H1'	2.23	0.54
24:BA:1670:C:O5'	24:BA:1671:U:C5	2.61	0.54
24:BA:1819:A:O2'	24:BA:1820:U:C5'	2.55	0.54
24:BA:1909:C:C4	24:BA:1922:G:N1	2.76	0.54
24:BA:1996:C:H2'	24:BA:1997:G:H5'	1.84	0.54
24:BA:2323:G:C6	24:BA:2324:C:N4	2.76	0.54
24:BA:2375:G:H1'	24:BA:2377:A:N7	2.23	0.54
24:BA:237:C:C2	24:BA:238:C:C5	2.96	0.54
24:BA:2394:C:N4	24:BA:2422:A:C6	2.76	0.54
24:BA:248:G:OP1	50:B3:28:LYS:CE	2.55	0.54
24:BA:2523:G:C1'	24:BA:2765:A:N7	2.71	0.54
24:BA:2644:G:H1	24:BA:2645:G:N2	2.04	0.54
24:BA:2544:G:H4'	24:BA:2645:G:OP1	2.07	0.54
24:BA:270(H):C:H2'	24:BA:270(I):G:C8	2.40	0.54
24:BA:2834:G:H3'	24:BA:2834:G:C8	2.42	0.54
24:BA:2848:G:N9	40:BS:99:LEU:HD21	2.23	0.54
24:BA:310:A:OP1	45:BX:16:ALA:HB1	2.08	0.54
24:BA:318:C:O2'	24:BA:319:C:H5'	2.08	0.54
24:BA:295:G:N2	24:BA:344:G:H1'	2.23	0.54
24:BA:462:C:C4	24:BA:468:G:C2	2.96	0.54
24:BA:14:A:N1	24:BA:526:A:C6	2.76	0.54
24:BA:544:C:O2'	24:BA:545:G:H5'	2.08	0.54
24:BA:816:C:H5'	24:BA:816:C:C6	2.35	0.54
24:BA:846:C:H4'	24:BA:847:U:O5'	2.07	0.54
24:BA:862:G:N3	24:BA:863:A:H1'	2.23	0.54
24:BA:959:A:C4	24:BA:960:A:N7	2.76	0.54
25:BB:32:C:C2'	25:BB:33:G:C8	2.87	0.54
25:BB:80:U:O2	25:BB:81:G:N7	2.41	0.54
25:BB:85:G:N3	25:BB:86:G:C8	2.76	0.54
27:BD:175:LEU:O	27:BD:182:LEU:HD23	2.07	0.54
27:BD:13:ARG:HD3	27:BD:22:SER:HB2	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:228:PRO:C	27:BD:230:ASP:N	2.57	0.54
28:BE:121:ASN:O	28:BE:122:PHE:O	2.25	0.54
28:BE:91:VAL:HG13	28:BE:92:THR:H	1.73	0.54
24:BA:660:G:H5'	29:BF:99:TYR:CE1	2.43	0.54
31:BH:35:VAL:HB	31:BH:72:ILE:HG12	1.90	0.54
31:BH:87:LEU:N	31:BH:132:ARG:CB	2.71	0.54
31:BH:88:LEU:HD23	31:BH:89:ILE:C	2.27	0.54
31:BH:98:LEU:HD21	31:BH:123:PHE:HD2	1.73	0.54
35:BN:19:ILE:HB	35:BN:42:SER:O	2.07	0.54
36:BO:15:ARG:HG3	36:BO:16:ARG:N	2.21	0.54
24:BA:666:G:H5'	36:BO:45:LEU:HD12	1.89	0.54
36:BO:77:ARG:HA	36:BO:115:LEU:HB2	1.89	0.54
37:BP:106:VAL:O	37:BP:107:ALA:CB	2.56	0.54
37:BP:72:LYS:HE2	37:BP:96:VAL:HG21	1.89	0.54
37:BP:90:VAL:C	37:BP:91:GLU:CD	2.66	0.54
24:BA:1653:G:O6	38:BQ:11:ASN:HA	2.08	0.54
25:BB:7:G:C4'	39:BR:29:PHE:CE2	2.84	0.54
24:BA:563:G:N2	41:BT:34:LYS:HZ3	2.04	0.54
43:BV:8:ARG:CZ	43:BV:102:HIS:ND1	2.71	0.54
43:BV:74:ALA:CB	43:BV:105:VAL:HA	2.38	0.54
44:BW:34:ALA:HB1	44:BW:38:GLU:HB3	1.90	0.54
44:BW:89:ILE:HG22	44:BW:89:ILE:O	2.08	0.54
47:BZ:50:ASN:HB3	47:BZ:63:VAL:CG1	2.37	0.54
26:BC:29:VAL:HG21	26:BC:41:VAL:CG1	2.37	0.54
43:BV:60:ASN:ND2	43:BV:61:ASN:ND2	2.55	0.54
24:BA:1509:C:H3'	24:BA:1509:C:OP2	2.07	0.54
3:AD:26:A:N3	3:AD:26:A:H2'	2.23	0.54
24:BA:55:G:H2'	24:BA:56:A:H8	1.72	0.54
14:AO:18:VAL:O	14:AO:19:ARG:CB	2.55	0.54
3:AB:47:U:N3	3:AB:49:C:H4'	2.23	0.54
1:AA:1056:U:O2	1:AA:1056:U:H2'	2.07	0.54
1:AA:1059:C:O2'	12:AM:53:PRO:CD	2.56	0.54
1:AA:1126:U:H2'	1:AA:1127:G:O4'	2.08	0.54
1:AA:1347:G:H2'	11:AL:107:ARG:O	2.07	0.54
1:AA:1411:C:N3	1:AA:1412:C:C5	2.75	0.54
1:AA:145:G:N1	1:AA:178:C:C4	2.76	0.54
1:AA:199:G:H2'	1:AA:200:G:H8	1.73	0.54
1:AA:198:G:H2'	1:AA:199:G:O5'	2.08	0.54
1:AA:475:G:C2'	1:AA:476:G:C8	2.79	0.54
1:AA:696:A:C6	1:AA:697:U:H1'	2.43	0.54
1:AA:752:G:OP2	1:AA:752:G:H8	1.90	0.54
1:AA:755:G:OP2	17:AR:65:ARG:CD	2.56	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:950:U:H1'	1:AA:971:G:N3	2.23	0.54
3:AB:37:A:C2'	3:AB:38:A:H5'	2.38	0.54
3:AC:19:G:C2	3:AC:57:G:N3	2.76	0.54
3:AC:59:U:C2'	3:AC:59:U:O2	2.54	0.54
4:AE:173:ALA:O	4:AE:174:VAL:C	2.46	0.54
6:AG:31:CYS:O	6:AG:33:MET:CG	2.53	0.54
7:AH:104:ALA:N	7:AH:107:ARG:HH12	2.06	0.54
8:AI:19:LEU:HG	8:AI:23:LYS:HD3	1.89	0.54
8:AI:64:GLN:C	8:AI:65:VAL:HG12	2.27	0.54
8:AI:76:ALA:C	8:AI:79:LEU:HG	2.28	0.54
1:AA:876:G:O2'	10:AK:11:THR:CG2	2.56	0.54
10:AK:65:TYR:HA	10:AK:79:VAL:HG23	1.88	0.54
13:AN:101:SER:OG	13:AN:103:LEU:HG	2.08	0.54
1:AA:363:A:C4	14:AO:31:PRO:HG2	2.42	0.54
14:AO:34:ARG:HA	14:AO:84:LEU:HB2	1.89	0.54
14:AO:62:SER:OG	14:AO:64:TYR:CG	2.57	0.54
15:AP:95:GLY:C	15:AP:110:ARG:HD2	2.28	0.54
15:AP:13:LYS:O	15:AP:17:VAL:HB	2.08	0.54
18:AS:27:LYS:N	18:AS:27:LYS:NZ	2.55	0.54
19:AT:66:SER:OG	19:AT:67:LYS:N	2.36	0.54
19:AT:81:ARG:HG3	19:AT:84:LEU:CG	2.38	0.54
20:AU:62:GLU:O	20:AU:66:LEU:CG	2.42	0.54
20:AU:75:ILE:HG22	20:AU:76:LEU:HD13	1.89	0.54
20:AU:81:PHE:O	20:AU:82:THR:HG22	2.07	0.54
21:AV:27:GLU:HG2	21:AV:29:ARG:N	2.11	0.54
24:BA:1364:G:O6	50:B3:2:LYS:HG3	2.08	0.54
24:BA:247:G:H1	54:B7:8:LYS:CD	2.21	0.54
24:BA:1069:A:C5'	24:BA:1070:A:O5'	2.56	0.54
24:BA:1027:A:C6	24:BA:1126:A:C4	2.96	0.54
24:BA:1137:G:C8	24:BA:1138:G:C8	2.95	0.54
24:BA:1289:C:C2	24:BA:1290:C:C5	2.96	0.54
24:BA:1409:C:H2'	24:BA:1410:G:O4'	2.07	0.54
24:BA:1432:C:O2'	24:BA:1433:U:H5'	2.08	0.54
24:BA:1437:C:O3'	24:BA:1517:G:H5'	2.08	0.54
24:BA:1477:A:H2'	24:BA:1478:G:H1'	1.90	0.54
24:BA:1591:G:H2'	24:BA:1592:C:H6	1.73	0.54
24:BA:1598:C:H5''	44:BW:36:LYS:CB	2.19	0.54
24:BA:1632:A:H8	24:BA:1632:A:O5'	1.90	0.54
24:BA:1688:U:H3	24:BA:1700:A:H5''	1.73	0.54
24:BA:1692:U:H1'	24:BA:1696:G:H21	1.71	0.54
24:BA:1835:G:C4	24:BA:1931:U:N3	2.74	0.54
24:BA:1857:G:H2'	24:BA:1858:G:C5	2.42	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1952:A:C5	24:BA:1953:A:N1	2.76	0.54
24:BA:2004:G:C5	24:BA:2005:A:C5	2.96	0.54
24:BA:2014:A:O2'	24:BA:2015:A:N3	2.37	0.54
24:BA:2286:A:H3'	24:BA:2286:A:H8	1.71	0.54
24:BA:2449:U:OP1	24:BA:2449:U:O4'	2.26	0.54
24:BA:2484:G:H1'	37:BP:124:LYS:HZ1	1.71	0.54
24:BA:1669:A:C5'	24:BA:2550:G:OP1	2.46	0.54
24:BA:2638:G:N7	24:BA:2775:A:N1	2.55	0.54
24:BA:269:U:N3	24:BA:424:G:C6	2.76	0.54
24:BA:334:C:OP2	24:BA:335:C:H5	1.90	0.54
24:BA:412:A:H2'	24:BA:413:C:C5'	2.38	0.54
24:BA:522:G:H2'	24:BA:523:C:C6	2.43	0.54
24:BA:676:A:O4'	24:BA:2443:C:O4'	2.26	0.54
24:BA:735:A:H2'	24:BA:736:C:C5'	2.37	0.54
24:BA:733:G:O6	24:BA:761:A:C8	2.60	0.54
24:BA:832:G:C2'	24:BA:833:U:C5	2.89	0.54
24:BA:840:C:H5'	24:BA:1192:G:H1'	1.89	0.54
24:BA:931:G:H21	49:B2:24:LYS:CB	2.15	0.54
24:BA:832:G:H8	24:BA:944:G:H21	1.56	0.54
24:BA:987:G:C6	24:BA:988:A:C5	2.96	0.54
25:BB:59:A:C5	25:BB:60:C:C6	2.96	0.54
25:BB:61:G:C2	25:BB:62:C:N3	2.75	0.54
25:BB:63:G:H2'	25:BB:64:C:H6	1.73	0.54
27:BD:142:VAL:HB	27:BD:192:THR:O	2.08	0.54
27:BD:208:LYS:HZ1	27:BD:211:ARG:NH2	2.05	0.54
27:BD:53:PHE:CD2	27:BD:221:VAL:HG13	2.42	0.54
24:BA:37:C:O2'	29:BF:50:SER:OG	2.21	0.54
31:BH:149:ARG:CZ	31:BH:164:TYR:CD1	2.82	0.54
31:BH:8:PRO:CB	31:BH:51:ARG:NH1	2.70	0.54
32:BK:5:LEU:HD21	32:BK:18:VAL:CA	2.38	0.54
33:BL:30:HIS:O	33:BL:30:HIS:ND1	2.40	0.54
33:BL:71:THR:HB	33:BL:111:LYS:HE2	1.89	0.54
33:BL:89:HIS:O	33:BL:90:LYS:CG	2.55	0.54
34:BM:3:THR:CG2	34:BM:4:TYR:H	2.07	0.54
36:BO:114:ILE:HG12	36:BO:130:PHE:CA	2.35	0.54
36:BO:48:PRO:O	36:BO:51:PHE:HB2	2.08	0.54
37:BP:27:VAL:CG1	37:BP:102:VAL:HG21	2.38	0.54
39:BR:77:ALA:HA	39:BR:80:LEU:HB2	1.90	0.54
42:BU:12:TYR:CD1	42:BU:14:VAL:HG23	2.43	0.54
43:BV:5:ALA:O	43:BV:105:VAL:HG13	2.08	0.54
43:BV:58:ALA:HA	43:BV:62:HIS:HB3	1.90	0.54
46:BY:157:LEU:HD22	46:BY:161:VAL:HG22	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:25:PRO:CG	46:BY:84:GLU:O	2.56	0.54
32:BK:132:PRO:CD	32:BK:138:ILE:N	2.71	0.54
32:BK:69:LYS:O	32:BK:73:GLU:CG	2.56	0.54
24:BA:2118:U:OP1	24:BA:2147:G:C6	2.60	0.54
26:BC:131:LEU:HD13	26:BC:136:LEU:O	2.07	0.54
26:BC:59:ARG:HD2	26:BC:162:GLU:CD	2.27	0.54
1:AA:799:G:N2	1:AA:800:G:H1'	2.23	0.54
1:AA:1085:U:H5''	1:AA:1086:U:C5	2.43	0.54
1:AA:1339:A:H8	1:AA:1339:A:O5'	1.91	0.54
1:AA:1373:G:H4'	9:AJ:34:GLY:O	2.08	0.54
1:AA:1405:G:C4	1:AA:1406:U:C5	2.96	0.54
1:AA:1431:C:N3	1:AA:1469:G:N1	2.55	0.54
1:AA:927:G:C5'	1:AA:1503:A:H62	2.20	0.54
1:AA:167:G:H2'	1:AA:168:G:C8	2.43	0.54
1:AA:50:A:O2'	1:AA:52:G:C5	2.61	0.54
1:AA:51:A:C2'	1:AA:52:G:OP2	2.56	0.54
1:AA:703:G:O5'	1:AA:703:G:C8	2.61	0.54
1:AA:864:A:C6	1:AA:865:A:N1	2.76	0.54
1:AA:950:U:C2'	1:AA:951:G:H5'	2.38	0.54
1:AA:965:A:C8	1:AA:969:A:N3	2.76	0.54
3:AB:21:A:C2	3:AB:48:C:H1'	2.43	0.54
3:AC:21:A:C2'	3:AC:22:G:O5'	2.55	0.54
3:AC:70:G:C4	3:AC:71:G:C8	2.95	0.54
4:AE:175:ARG:HA	4:AE:178:ARG:CB	2.38	0.54
4:AE:187:LEU:HB2	4:AE:201:ILE:CG2	2.38	0.54
4:AE:58:ILE:HG22	4:AE:221:LEU:CD1	2.38	0.54
4:AE:80:ILE:HD13	4:AE:212:GLN:HE21	1.73	0.54
1:AA:1205:U:C4'	5:AF:195:VAL:HG13	2.26	0.54
5:AF:40:ARG:HG3	5:AF:40:ARG:HH11	1.72	0.54
1:AA:620:C:C1'	6:AG:135:LEU:HD13	2.38	0.54
6:AG:133:VAL:CG1	6:AG:138:TYR:HD1	2.07	0.54
6:AG:150:GLU:C	6:AG:152:SER:H	2.12	0.54
6:AG:30:LYS:H	6:AG:34:GLU:HB3	1.71	0.54
7:AH:76:ILE:CG2	7:AH:78:HIS:CD2	2.91	0.54
8:AI:13:ASN:N	8:AI:13:ASN:ND2	2.56	0.54
9:AJ:21:VAL:HG23	9:AJ:22:LEU:CD2	2.38	0.54
9:AJ:38:LEU:HA	9:AJ:41:ARG:CB	2.37	0.54
10:AK:67:PRO:CD	10:AK:76:PRO:HB3	2.38	0.54
11:AL:69:GLY:C	11:AL:73:GLN:OE1	2.46	0.54
12:AM:10:GLY:CA	12:AM:16:LEU:HD21	2.38	0.54
13:AN:126:ARG:C	13:AN:128:ALA:N	2.62	0.54
14:AO:27:LEU:HD22	14:AO:62:SER:OG	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:AR:81:LEU:O	17:AR:82:ILE:C	2.47	0.54
20:AU:41:LYS:O	20:AU:43:PHE:N	2.36	0.54
21:AV:22:LEU:HA	21:AV:25:LYS:NZ	2.23	0.54
48:B1:27:LEU:HD11	48:B1:48:LEU:HG	1.90	0.54
48:B1:50:ARG:HB3	48:B1:54:ARG:HH22	1.73	0.54
24:BA:988:A:O3'	49:B2:10:LYS:CE	2.56	0.54
51:B4:47:PRO:O	51:B4:58:LEU:HG	2.08	0.54
53:B6:32:LYS:HA	53:B6:35:ARG:HD3	1.88	0.54
54:B7:25:MET:O	54:B7:27:THR:N	2.41	0.54
24:BA:1071:G:C2	24:BA:1089:G:H2'	2.43	0.54
24:BA:112:U:H3'	24:BA:113:G:C4'	2.38	0.54
24:BA:1174:A:N6	24:BA:1177:A:N1	2.49	0.54
24:BA:1291:C:H2'	24:BA:1292:U:H6	1.71	0.54
24:BA:1314:C:N3	24:BA:1315:C:C5	2.76	0.54
24:BA:1367:A:H62	24:BA:1368:G:H1'	1.72	0.54
24:BA:1559:G:N3	24:BA:1559:G:H2'	2.23	0.54
24:BA:1717:G:H1	24:BA:1718:G:N2	2.06	0.54
24:BA:1779:U:C3'	24:BA:1779:U:C6	2.91	0.54
24:BA:188:G:H2'	24:BA:189:G:H8	1.73	0.54
24:BA:1909:C:C2	24:BA:1922:G:N2	2.76	0.54
24:BA:2207:C:C3'	24:BA:2208:U:H5''	2.34	0.54
24:BA:226:G:N1	24:BA:227:A:C2	2.76	0.54
24:BA:2403:C:O2	24:BA:2404:C:C6	2.61	0.54
24:BA:2458:G:C8	24:BA:2490:G:C6	2.96	0.54
24:BA:2706:G:C4	24:BA:2707:G:C8	2.95	0.54
24:BA:270(F):U:H2'	24:BA:270(G):C:O4'	2.08	0.54
24:BA:2751:G:N3	24:BA:2751:G:H2'	2.23	0.54
24:BA:2776:A:N7	24:BA:2781:A:C5	2.76	0.54
24:BA:1710:C:C1'	24:BA:2858:C:H42	2.21	0.54
24:BA:2848:G:C2	24:BA:2867:G:N3	2.76	0.54
24:BA:303:U:C2	24:BA:315:G:N2	2.76	0.54
24:BA:364:C:C4	24:BA:365:C:N4	2.76	0.54
24:BA:388:G:C5'	50:B3:23:GLU:HB3	2.38	0.54
24:BA:522:G:C6	24:BA:523:C:C4	2.96	0.54
24:BA:523:C:C2'	24:BA:524:U:H5'	2.38	0.54
24:BA:530:G:O2'	24:BA:531:C:O3'	2.25	0.54
24:BA:532:A:C8	24:BA:533:G:H1'	2.41	0.54
24:BA:568:U:O4	24:BA:973:A:OP2	2.26	0.54
24:BA:61:G:C5	24:BA:62:C:C4	2.96	0.54
24:BA:696:G:N3	24:BA:697:C:C6	2.76	0.54
24:BA:729:G:OP1	27:BD:13:ARG:NH2	2.40	0.54
24:BA:781:A:C8	27:BD:220:HIS:CE1	2.96	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:824:A:C2'	24:BA:825:C:C5	2.91	0.54
24:BA:908:C:H2'	24:BA:909:A:O5'	2.07	0.54
25:BB:79:C:O2'	25:BB:80:U:H5'	2.07	0.54
24:BA:2216:G:N2	27:BD:150:LYS:HZ3	2.05	0.54
29:BF:56:GLU:C	29:BF:60:SER:OG	2.46	0.54
30:BG:177:GLY:O	30:BG:178:PHE:CB	2.56	0.54
30:BG:22:ARG:HG3	30:BG:23:PHE:N	2.23	0.54
31:BH:6:ARG:HD2	31:BH:66:GLY:CA	2.36	0.54
32:BK:31:LEU:CD2	32:BK:36:ALA:N	2.71	0.54
32:BK:5:LEU:HD12	32:BK:8:PRO:C	2.27	0.54
34:BM:74:ARG:HG2	34:BM:76:SER:HB2	1.90	0.54
35:BN:84:ALA:HB3	35:BN:114:ILE:HD11	1.89	0.54
35:BN:19:ILE:C	35:BN:19:ILE:HD12	2.28	0.54
24:BA:1665:A:H1'	35:BN:1:MET:HG2	1.90	0.54
36:BO:46:LYS:CB	36:BO:49:ARG:HB2	2.20	0.54
37:BP:85:LYS:HG3	37:BP:86:GLY:N	2.24	0.54
38:BQ:116:LEU:O	38:BQ:116:LEU:HG	2.07	0.54
38:BQ:31:HIS:HD2	38:BQ:34:ILE:HD11	1.72	0.54
38:BQ:53:HIS:HA	38:BQ:56:LYS:CD	2.38	0.54
38:BQ:65:LEU:O	38:BQ:68:ARG:HB3	2.08	0.54
39:BR:62:LYS:O	39:BR:64:GLU:N	2.41	0.54
39:BR:94:TYR:HB3	39:BR:99:LYS:HA	1.89	0.54
40:BS:3:ARG:HA	40:BS:6:LEU:HD21	1.89	0.54
41:BT:92:ARG:C	41:BT:93:LYS:HZ3	2.11	0.54
43:BV:19:LEU:HA	51:B4:25:LEU:HD22	1.90	0.54
44:BW:7:VAL:HB	48:B1:28:MET:HG2	1.89	0.54
45:BX:47:LYS:HB2	45:BX:49:VAL:CG1	2.38	0.54
45:BX:72:VAL:HG21	45:BX:96:ILE:HG21	1.89	0.54
46:BY:100:VAL:CG1	46:BY:133:ILE:HB	2.38	0.54
46:BY:82:ARG:CG	46:BY:83:PRO:N	2.70	0.54
3:AD:48:C:OP1	3:AD:48:C:H6	1.91	0.54
24:BA:2110:G:H4'	24:BA:2111:C:OP1	2.07	0.54
26:BC:126:LYS:O	26:BC:130:ILE:HD13	2.07	0.54
26:BC:210:ARG:HG2	26:BC:210:ARG:HH11	1.73	0.54
1:AA:1172:C:H2'	1:AA:1173:G:O4'	2.08	0.54
3:AD:40:C:C3'	3:AD:41:C:C5'	2.83	0.54
3:AD:27:G:H2'	3:AD:28:G:H8	1.73	0.54
6:AG:159:ARG:HH11	6:AG:159:ARG:HG2	1.73	0.54
1:AA:1026:G:N7	1:AA:1027:C:C6	2.76	0.53
1:AA:1048:G:N2	1:AA:1210:C:H1'	2.22	0.53
1:AA:1064:G:N2	1:AA:1192:C:N3	2.56	0.53
1:AA:1068:G:OP2	1:AA:1094:G:H5'	2.07	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1178:G:H21	1:AA:1180:A:H3'	1.74	0.53
1:AA:1185:G:C2'	1:AA:1186:G:H5'	2.38	0.53
1:AA:120:A:C8	1:AA:122:G:C6	2.96	0.53
1:AA:1321:C:H4'	15:AP:87:TYR:HH	1.71	0.53
1:AA:1346:A:C2	9:AJ:10:ARG:CD	2.87	0.53
1:AA:1353:G:C4	1:AA:1370:G:N2	2.76	0.53
1:AA:1353:G:N3	1:AA:1370:G:N2	2.55	0.53
1:AA:1399:C:N3	1:AA:1502:A:N6	2.56	0.53
1:AA:1462:G:H2'	1:AA:1463:C:H6	1.73	0.53
1:AA:306:G:C2'	1:AA:307:C:H5'	2.37	0.53
1:AA:582:U:H6	1:AA:582:U:O5'	1.90	0.53
1:AA:607:A:C4	1:AA:608:A:C8	2.96	0.53
1:AA:689:C:C5	1:AA:690:G:N7	2.76	0.53
1:AA:728:A:H8	17:AR:54:ARG:NH2	2.06	0.53
1:AA:735:C:H6	1:AA:735:C:O5'	1.90	0.53
1:AA:756:C:H4'	1:AA:823:G:O2'	2.08	0.53
1:AA:88:C:H2'	1:AA:89:U:OP2	2.07	0.53
1:AA:961:U:C6	1:AA:983:A:C6	2.95	0.53
1:AA:974:A:H5'	1:AA:975:A:P	2.48	0.53
1:AA:981:U:C3'	1:AA:981:U:C6	2.91	0.53
1:AA:993:G:HO2'	1:AA:994:A:P	2.32	0.53
3:AB:52:G:H4'	24:BA:2471:C:H5''	1.89	0.53
3:AB:63:G:H1'	24:BA:2482:G:C4'	2.38	0.53
3:AD:32:U:H2'	3:AD:33:U:H5'	1.90	0.53
4:AE:80:ILE:HD13	4:AE:211:ILE:HG21	1.90	0.53
4:AE:52:GLU:OE1	4:AE:53:ARG:N	2.41	0.53
5:AF:43:LEU:HD11	5:AF:55:VAL:HG11	1.89	0.53
6:AG:123:HIS:HB2	6:AG:125:HIS:HE1	1.71	0.53
6:AG:118:ARG:HH21	6:AG:136:PRO:HB2	1.70	0.53
6:AG:146:ILE:O	6:AG:146:ILE:CD1	2.56	0.53
1:AA:509:A:OP1	6:AG:52:SER:HB3	2.08	0.53
7:AH:44:GLY:HA3	7:AH:61:TYR:HB2	1.90	0.53
7:AH:34:VAL:HG21	7:AH:62:ALA:HB1	1.89	0.53
9:AJ:15:ASP:HB2	9:AJ:23:VAL:HB	1.90	0.53
9:AJ:45:ASP:O	9:AJ:49:ILE:HD12	2.07	0.53
10:AK:109:ILE:O	10:AK:109:ILE:CG1	2.57	0.53
10:AK:82:HIS:NE2	10:AK:84:ARG:CG	2.70	0.53
10:AK:8:ASP:OD2	10:AK:8:ASP:C	2.46	0.53
12:AM:60:ARG:NH1	12:AM:60:ARG:HB2	2.23	0.53
13:AN:71:LYS:O	13:AN:74:ALA:N	2.41	0.53
1:AA:362:G:O5'	14:AO:34:ARG:NH2	2.41	0.53
14:AO:41:ARG:CG	14:AO:42:THR:H	2.21	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:AQ:27:CYS:SG	16:AQ:42:ILE:CD1	2.96	0.53
17:AR:69:TYR:HA	17:AR:72:ARG:HB3	1.90	0.53
18:AS:56:ALA:C	18:AS:60:LEU:HD12	2.29	0.53
18:AS:76:GLN:O	18:AS:77:ALA:C	2.46	0.53
19:AT:6:LEU:CD1	19:AT:6:LEU:C	2.76	0.53
19:AT:75:ARG:HH22	19:AT:77:VAL:CG2	2.13	0.53
13:AN:110:ASP:HB2	20:AU:88:LYS:CD	2.38	0.53
21:AV:51:VAL:HG21	21:AV:60:VAL:HG21	1.91	0.53
1:AA:1319:A:H4'	21:AV:70:LYS:HZ2	1.71	0.53
22:AW:57:ARG:HH21	22:AW:100:ILE:HD12	1.73	0.53
22:AW:72:LEU:CD2	22:AW:76:ALA:CB	2.86	0.53
48:B1:25:ARG:HH21	48:B1:25:ARG:CG	2.17	0.53
49:B2:9:VAL:HG21	49:B2:52:HIS:O	2.08	0.53
51:B4:10:LYS:HD2	51:B4:15:ARG:NH2	2.24	0.53
24:BA:1311:G:C8	53:B6:48:LYS:HD3	2.43	0.53
36:BO:57:THR:HG21	54:B7:31:HIS:HD2	1.73	0.53
24:BA:1044:G:H2'	24:BA:1111:A:C2	2.43	0.53
24:BA:1062:G:C5'	24:BA:1070:A:H5'	2.38	0.53
24:BA:1085:A:HO2'	24:BA:1086:A:P	2.30	0.53
24:BA:1168:G:O6	24:BA:1169:G:C6	2.62	0.53
24:BA:1210:A:H5''	24:BA:1211:U:H3'	1.91	0.53
24:BA:1225:C:N3	24:BA:1226:G:N1	2.56	0.53
24:BA:1404:C:O2	24:BA:1405:U:C6	2.61	0.53
24:BA:1340:U:C2	24:BA:1602:U:C5	2.95	0.53
24:BA:1613:G:H2'	24:BA:1614:A:OP1	2.08	0.53
24:BA:1670:C:H1'	24:BA:1994:C:H4'	1.89	0.53
24:BA:1780:A:H3'	24:BA:1781:C:C5'	2.25	0.53
3:AD:71:G:H5''	24:BA:1892:C:O2'	2.07	0.53
24:BA:1965:C:C5'	24:BA:1966:A:H3'	2.39	0.53
24:BA:1972:A:H2'	24:BA:1973:G:C8	2.43	0.53
24:BA:2045:C:O2'	24:BA:2046:G:H5'	2.08	0.53
24:BA:2065:C:C4	24:BA:2066:C:C4	2.96	0.53
24:BA:2218:G:C6	24:BA:2219:G:N7	2.76	0.53
24:BA:2246:G:H1'	24:BA:2426:A:H2	1.73	0.53
24:BA:2269:A:O2'	24:BA:2270:G:H5'	2.08	0.53
24:BA:2355:C:C5	24:BA:2356:C:C4	2.96	0.53
24:BA:2459:A:C6	24:BA:2493:U:O4	2.61	0.53
24:BA:247:G:H1	54:B7:8:LYS:HD2	1.72	0.53
3:AB:74:C:C4	24:BA:2555:U:N3	2.76	0.53
24:BA:2606:C:O2	24:BA:2607:G:C8	2.61	0.53
24:BA:2626:C:H2'	24:BA:2627:G:O4'	2.08	0.53
24:BA:270(L):U:C6	24:BA:270(L):U:OP2	2.61	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2838:G:O2'	24:BA:2839:G:H5'	2.08	0.53
24:BA:291:C:N4	24:BA:292:C:N4	2.56	0.53
24:BA:307:G:H2'	24:BA:309:G:C8	2.43	0.53
24:BA:531:C:O4'	24:BA:532:A:N3	2.41	0.53
24:BA:627:A:C1'	24:BA:637:A:C6	2.89	0.53
24:BA:720:C:C2	24:BA:721:C:C5	2.96	0.53
24:BA:734:A:C2'	24:BA:735:A:O5'	2.55	0.53
24:BA:760:G:C2	24:BA:761:A:H1'	2.43	0.53
24:BA:849:A:C4	24:BA:850:C:C6	2.96	0.53
24:BA:941:A:C2	24:BA:942:G:N3	2.76	0.53
24:BA:945:A:H3'	24:BA:946:G:H5''	1.90	0.53
24:BA:973:A:O2'	24:BA:974:G:C5'	2.53	0.53
25:BB:32:C:H2'	25:BB:33:G:H8	1.71	0.53
27:BD:65:ILE:HD12	27:BD:104:TYR:CB	2.38	0.53
27:BD:45:ASN:O	27:BD:46:GLN:HG3	2.08	0.53
27:BD:37:LEU:CD1	27:BD:62:TYR:O	2.56	0.53
24:BA:1818:U:O4	27:BD:67:PHE:CE1	2.61	0.53
27:BD:75:ILE:HD13	27:BD:99:ASP:CB	2.39	0.53
27:BD:5:LYS:CB	27:BD:82:ILE:HB	2.34	0.53
28:BE:27:LEU:O	28:BE:27:LEU:HG	2.08	0.53
28:BE:46:ALA:HB2	28:BE:85:ASN:ND2	2.21	0.53
29:BF:157:VAL:HG23	29:BF:157:VAL:O	2.08	0.53
29:BF:182:ASN:O	29:BF:182:ASN:OD1	2.25	0.53
30:BG:96:ARG:O	30:BG:100:TRP:HE3	1.89	0.53
30:BG:107:LEU:HD23	30:BG:177:GLY:HA3	1.91	0.53
30:BG:135:LEU:CD2	30:BG:137:GLU:H	2.21	0.53
31:BH:148:ILE:HG23	31:BH:162:ILE:HD13	1.89	0.53
24:BA:1080:C:H4'	33:BL:125:ARG:C	2.27	0.53
33:BL:78:ILE:HG12	33:BL:127:ILE:HG23	1.89	0.53
33:BL:23:VAL:CG1	33:BL:27:LEU:HD12	2.07	0.53
34:BM:100:GLU:HB3	34:BM:104:LYS:HE2	1.89	0.53
35:BN:86:ILE:HG12	35:BN:90:GLN:O	2.07	0.53
36:BO:111:ARG:HH21	36:BO:129:ALA:HB2	1.73	0.53
37:BP:22:LYS:CD	37:BP:23:GLY:N	2.70	0.53
35:BN:77:ILE:HG12	40:BS:75:ILE:HD11	1.91	0.53
24:BA:581:C:H5''	41:BT:32:PHE:CD1	2.43	0.53
24:BA:2018:G:C1'	41:BT:34:LYS:HZ1	2.20	0.53
42:BU:4:ILE:O	42:BU:40:LEU:O	2.26	0.53
42:BU:7:THR:O	42:BU:11:GLN:NE2	2.41	0.53
43:BV:64:MET:CB	43:BV:109:GLU:HG3	2.38	0.53
43:BV:89:ALA:O	43:BV:90:ARG:C	2.46	0.53
45:BX:37:VAL:HG13	45:BX:39:VAL:HG23	1.89	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:BX:65:ALA:CB	45:BX:66:PRO:CD	2.85	0.53
46:BY:11:GLU:O	46:BY:15:PRO:HG3	2.07	0.53
47:BZ:32:ARG:HB2	47:BZ:32:ARG:HH11	1.70	0.53
24:BA:2364:C:H1'	47:BZ:36:ILE:HD11	1.89	0.53
47:BZ:78:TYR:CD1	47:BZ:78:TYR:N	2.75	0.53
32:BK:77:LEU:CD1	32:BK:140:LEU:HB3	2.32	0.53
3:AD:47:U:H3	3:AD:49:C:H5''	1.72	0.53
24:BA:1511:A:C3'	24:BA:1512:G:H5''	2.37	0.53
39:BR:59:LYS:HE2	39:BR:59:LYS:H	1.73	0.53
24:BA:1040:C:OP2	24:BA:1040:C:C6	2.61	0.53
1:AA:1133:G:C6	1:AA:1134:G:N7	2.77	0.53
1:AA:1256:A:N6	1:AA:1278:U:O2'	2.41	0.53
1:AA:1363:A:H5''	1:AA:1364:U:P	2.47	0.53
1:AA:229:U:C2	1:AA:230:G:C8	2.96	0.53
1:AA:586:C:OP1	19:AT:34:LYS:HE3	2.08	0.53
1:AA:673:G:H2'	1:AA:674:G:N7	2.23	0.53
1:AA:735:C:C4'	20:AU:75:ILE:HD11	2.38	0.53
1:AA:819:A:C5'	1:AA:820:U:OP2	2.54	0.53
1:AA:568:G:N2	1:AA:883:C:H1'	2.22	0.53
1:AA:939:G:H4'	1:AA:1375:A:O2'	2.08	0.53
3:AC:7:A:HO2'	3:AC:8:U:P	2.30	0.53
3:AD:76:A:C5	24:BA:2432:A:C4	2.96	0.53
4:AE:144:ARG:HD3	4:AE:148:TYR:OH	2.09	0.53
4:AE:149:LEU:HD23	4:AE:153:ARG:HG2	1.89	0.53
4:AE:217:ARG:HG3	4:AE:217:ARG:NH1	2.22	0.53
4:AE:234:PRO:HB2	4:AE:238:LEU:HD22	1.89	0.53
4:AE:55:PHE:O	4:AE:58:ILE:HB	2.07	0.53
5:AF:164:ARG:CG	5:AF:165:THR:N	2.71	0.53
5:AF:66:VAL:HG12	5:AF:66:VAL:O	2.08	0.53
6:AG:132:ARG:CG	6:AG:132:ARG:NH1	2.63	0.53
6:AG:63:LYS:CA	6:AG:66:ARG:HD2	2.37	0.53
7:AH:80:ILE:HG22	10:AK:104:ARG:NH2	2.24	0.53
8:AI:12:PRO:HG2	8:AI:13:ASN:H	1.74	0.53
9:AJ:127:ALA:O	9:AJ:128:ALA:C	2.46	0.53
9:AJ:37:ASN:OD1	9:AJ:38:LEU:N	2.24	0.53
1:AA:932:C:OP1	9:AJ:3:ARG:O	2.27	0.53
9:AJ:78:ARG:HE	9:AJ:80:VAL:CG2	2.21	0.53
13:AN:11:LYS:HB3	13:AN:13:GLN:CD	2.28	0.53
17:AR:32:LEU:HD12	17:AR:59:MET:HG2	1.89	0.53
1:AA:393:A:OP2	18:AS:12:LYS:HE3	2.08	0.53
18:AS:27:LYS:O	18:AS:30:GLY:N	2.36	0.53
19:AT:88:TYR:HA	19:AT:91:ARG:NH2	2.23	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:AU:87:ARG:O	20:AU:88:LYS:OXT	2.26	0.53
48:B1:20:VAL:HG23	48:B1:55:LEU:CD2	2.38	0.53
52:B5:36:LEU:O	52:B5:51:GLU:CB	2.36	0.53
54:B7:13:ARG:HG3	54:B7:13:ARG:HH11	1.73	0.53
24:BA:1183:G:OP2	49:B2:30:ARG:NH1	2.41	0.53
24:BA:1242:A:H3'	24:BA:1243:G:H8	1.72	0.53
24:BA:1265:A:H1'	24:BA:1267:U:O4	2.09	0.53
24:BA:1492:G:N2	24:BA:1499:C:C5	2.75	0.53
24:BA:1521:G:H3'	24:BA:1522:G:H5'	1.90	0.53
24:BA:1534:G:N2	24:BA:1538:G:C8	2.77	0.53
24:BA:1742:C:C3'	24:BA:1743:G:C5'	2.86	0.53
24:BA:1794:U:H2'	24:BA:1795:C:H6	1.73	0.53
24:BA:1861:G:O2'	24:BA:1862:G:H5'	2.07	0.53
24:BA:1909:C:O2'	24:BA:1910:G:H5'	2.08	0.53
24:BA:2093:G:H1'	24:BA:2198:A:N1	2.23	0.53
24:BA:2246:G:N2	24:BA:2247:A:C6	2.77	0.53
24:BA:860:U:H6	24:BA:2267:A:H4'	1.70	0.53
24:BA:2306:C:C5	24:BA:2311:A:N1	2.76	0.53
24:BA:2346:A:H4'	24:BA:2383:G:C5'	2.35	0.53
24:BA:2425:A:H2'	24:BA:2425:A:N3	2.23	0.53
24:BA:2496:C:C6	24:BA:2497:A:H2	2.26	0.53
24:BA:1129:A:N3	24:BA:2516:G:H1'	2.23	0.53
24:BA:2585:U:C2'	24:BA:2585:U:O2	2.57	0.53
24:BA:2703:C:H2'	24:BA:2704:C:O5'	2.08	0.53
24:BA:2645:G:C4'	24:BA:2732:G:O2'	2.40	0.53
24:BA:270(W):G:N2	24:BA:273:G:H4'	2.23	0.53
24:BA:2749:A:N1	24:BA:2750:A:N6	2.45	0.53
24:BA:2825:C:H42	24:BA:2826:A:N6	2.05	0.53
24:BA:2864:G:O2'	24:BA:2865:U:H5'	2.07	0.53
24:BA:2875:C:O2'	40:BS:4:GLY:HA3	2.08	0.53
24:BA:309:G:O6	24:BA:1210:A:O2'	2.22	0.53
24:BA:223:A:N6	24:BA:408:G:O4'	2.42	0.53
24:BA:483:A:N6	24:BA:497:A:C2	2.76	0.53
24:BA:539:G:H2'	24:BA:540:G:C8	2.44	0.53
24:BA:586:A:OP1	29:BF:89:VAL:HG23	2.08	0.53
24:BA:746:A:C8	24:BA:2611:U:O2'	2.58	0.53
24:BA:796:C:H6	24:BA:796:C:O5'	1.91	0.53
24:BA:805:G:O6	24:BA:2068:U:OP1	2.26	0.53
24:BA:875:G:C6	24:BA:876:C:N4	2.76	0.53
24:BA:876:C:C6	24:BA:876:C:O5'	2.60	0.53
24:BA:957:A:C2	24:BA:2459:A:C5'	2.91	0.53
24:BA:968:G:H2'	24:BA:969:U:C6	2.43	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:975:G:N7	24:BA:1186:G:N2	2.45	0.53
24:BA:97:C:O5'	24:BA:97:C:H6	1.90	0.53
25:BB:15:A:H5'	25:BB:16:G:O5'	2.08	0.53
25:BB:37:C:N4	25:BB:44:G:H1	2.06	0.53
25:BB:58:A:H62	25:BB:59:A:N6	2.06	0.53
27:BD:57:GLY:O	27:BD:217:ARG:HB2	2.08	0.53
27:BD:234:GLY:CA	27:BD:241:PRO:CG	2.86	0.53
28:BE:51:PHE:HE1	28:BE:76:ARG:N	2.06	0.53
28:BE:85:ASN:ND2	28:BE:85:ASN:N	2.56	0.53
29:BF:37:VAL:O	29:BF:41:LEU:HD23	2.08	0.53
29:BF:46:ARG:HG2	29:BF:46:ARG:NH2	2.23	0.53
29:BF:54:ARG:C	29:BF:56:GLU:H	2.11	0.53
29:BF:71:GLY:C	29:BF:73:ALA:H	2.11	0.53
29:BF:74:ARG:CZ	29:BF:75:HIS:HA	2.38	0.53
30:BG:125:PHE:CD1	30:BG:131:TYR:N	2.76	0.53
30:BG:75:LYS:CB	30:BG:84:LYS:HB2	2.39	0.53
31:BH:149:ARG:O	31:BH:153:LYS:CB	2.57	0.53
31:BH:35:VAL:CG2	31:BH:75:ALA:HB2	2.38	0.53
34:BM:46:VAL:O	34:BM:47:ALA:HB3	2.09	0.53
35:BN:8:LEU:CD2	35:BN:9:GLU:H	2.11	0.53
36:BO:27:HIS:CE1	42:BU:82:ARG:O	2.60	0.53
36:BO:57:THR:O	36:BO:58:THR:OG1	2.26	0.53
36:BO:92:GLU:HA	36:BO:92:GLU:OE2	2.09	0.53
37:BP:116:GLU:O	37:BP:117:ALA:C	2.45	0.53
37:BP:43:THR:HG1	37:BP:45:GLN:HB2	1.73	0.53
37:BP:77:LYS:O	37:BP:78:PRO:O	2.26	0.53
38:BQ:113:LEU:CD1	38:BQ:114:VAL:N	2.70	0.53
39:BR:75:GLU:HA	39:BR:78:LEU:CB	2.38	0.53
39:BR:77:ALA:O	39:BR:78:LEU:C	2.47	0.53
40:BS:17:THR:HG21	40:BS:20:PRO:HA	1.90	0.53
24:BA:2876:G:P	40:BS:2:ASN:CB	2.96	0.53
40:BS:68:TYR:CD1	40:BS:68:TYR:C	2.81	0.53
41:BT:110:VAL:O	41:BT:111:GLU:C	2.47	0.53
41:BT:111:GLU:CG	41:BT:112:ARG:H	2.20	0.53
41:BT:8:VAL:HA	41:BT:11:ARG:NE	2.23	0.53
41:BT:74:LEU:O	41:BT:75:ASN:O	2.27	0.53
42:BU:70:ILE:HG23	42:BU:90:PRO:CA	2.37	0.53
43:BV:11:ARG:HH21	43:BV:11:ARG:CB	2.20	0.53
43:BV:21:VAL:HG11	43:BV:75:TYR:HA	1.90	0.53
43:BV:43:GLY:O	43:BV:44:ALA:C	2.45	0.53
44:BW:85:PRO:C	44:BW:87:GLN:HE21	2.11	0.53
45:BX:53:PRO:O	45:BX:55:TYR:N	2.40	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:24:LEU:HD12	46:BY:41:LEU:CD1	2.38	0.53
47:BZ:28:GLY:O	47:BZ:29:GLN:C	2.46	0.53
24:BA:2157:G:OP2	24:BA:2157:G:N3	2.41	0.53
26:BC:93:TYR:HD1	26:BC:107:TRP:HZ2	1.55	0.53
26:BC:100:ILE:HD13	26:BC:123:VAL:N	2.23	0.53
26:BC:22:ILE:CD1	26:BC:190:ARG:NH1	2.71	0.53
26:BC:223:ARG:HG2	26:BC:224:ILE:N	2.22	0.53
26:BC:26:ALA:O	26:BC:29:VAL:HG12	2.08	0.53
26:BC:53:ARG:C	26:BC:55:ASP:H	2.12	0.53
3:AD:28:G:N3	3:AD:29:G:C8	2.76	0.53
1:AA:491:G:N2	1:AA:492:G:H1'	2.23	0.53
32:BK:85:GLU:CD	32:BK:85:GLU:N	2.61	0.53
1:AA:1003:G:OP2	1:AA:1004:A:N3	2.41	0.53
1:AA:1094:G:C3'	1:AA:1108:G:H22	2.20	0.53
1:AA:1103:C:HO2'	4:AE:111:ARG:HD2	1.71	0.53
1:AA:1138:G:N3	1:AA:1138:G:H3'	2.23	0.53
1:AA:1300:G:O2'	1:AA:1301:U:P	2.66	0.53
1:AA:1438:G:C6	1:AA:1439:C:C5	2.96	0.53
1:AA:1449:C:H2'	1:AA:1450:U:O5'	2.08	0.53
1:AA:1479:C:H2'	1:AA:1480:G:H8	1.73	0.53
1:AA:1517:G:N3	1:AA:1517:G:H2'	2.23	0.53
1:AA:377:G:C2	1:AA:378:G:N7	2.76	0.53
1:AA:425:G:N2	1:AA:426:G:C1'	2.70	0.53
1:AA:568:G:C4	1:AA:569:C:C5	2.97	0.53
1:AA:646:U:H2'	1:AA:647:C:H6	1.73	0.53
1:AA:687:A:C4	1:AA:704:A:N6	2.77	0.53
1:AA:728:A:N1	1:AA:729:A:C4	2.76	0.53
1:AA:818:G:C2'	1:AA:819:A:OP1	2.56	0.53
1:AA:822:C:C2	1:AA:823:G:C8	2.96	0.53
1:AA:931:C:H2'	1:AA:932:C:H5	1.72	0.53
3:AC:21:A:N1	3:AC:48:C:N3	2.55	0.53
5:AF:142:MET:SD	5:AF:146:ALA:HB3	2.48	0.53
5:AF:142:MET:HB3	5:AF:149:ALA:HB2	1.90	0.53
6:AG:107:ARG:CD	6:AG:174:LEU:HD11	2.37	0.53
1:AA:426:G:O3'	6:AG:41:GLY:O	2.26	0.53
7:AH:122:GLU:CB	7:AH:126:ARG:HG3	2.39	0.53
7:AH:105:VAL:HG21	7:AH:132:ALA:HB2	1.89	0.53
7:AH:76:ILE:HD12	7:AH:142:LEU:HD12	1.89	0.53
7:AH:23:GLY:HA3	7:AH:25:ARG:HH12	1.71	0.53
7:AH:59:GLY:O	7:AH:62:ALA:CB	2.56	0.53
8:AI:20:ALA:O	8:AI:24:GLU:HG3	2.08	0.53
8:AI:77:ARG:N	8:AI:80:ARG:CZ	2.71	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AI:79:LEU:C	8:AI:81:ILE:N	2.60	0.53
9:AJ:88:PRO:HG2	9:AJ:152:ALA:CB	2.37	0.53
10:AK:100:ILE:HB	10:AK:125:ARG:HH21	1.71	0.53
10:AK:82:HIS:C	10:AK:137:VAL:HG13	2.28	0.53
11:AL:70:LYS:H	11:AL:70:LYS:HD2	1.72	0.53
1:AA:1202:G:N7	12:AM:53:PRO:HB2	2.22	0.53
13:AN:73:MET:CG	13:AN:103:LEU:HD13	2.37	0.53
13:AN:128:ALA:O	13:AN:129:SER:C	2.47	0.53
1:AA:1227:A:N9	15:AP:117:VAL:HG21	2.23	0.53
15:AP:92:HIS:CD2	15:AP:98:VAL:HG11	2.43	0.53
17:AR:31:LEU:CD1	17:AR:31:LEU:N	2.71	0.53
1:AA:669:U:O4'	17:AR:46:HIS:HE1	1.91	0.53
19:AT:35:VAL:HA	19:AT:36:ILE:HD13	1.90	0.53
20:AU:74:ARG:CG	20:AU:74:ARG:HH11	2.17	0.53
22:AW:23:ARG:O	22:AW:24:LEU:C	2.47	0.53
1:AA:1286:A:OP1	23:AX:25:LYS:HG3	2.08	0.53
48:B1:27:LEU:N	48:B1:27:LEU:HD12	2.24	0.53
49:B2:3:ARG:HH12	49:B2:59:VAL:CG2	2.21	0.53
50:B3:44:THR:HG22	50:B3:45:GLY:H	1.72	0.53
53:B6:25:PRO:HD3	53:B6:28:ARG:NH2	2.23	0.53
53:B6:35:ARG:NH1	53:B6:35:ARG:HB2	2.22	0.53
54:B7:39:LYS:H	54:B7:39:LYS:HZ3	1.57	0.53
54:B7:30:ARG:HH21	54:B7:43:GLN:N	2.05	0.53
24:BA:1083:U:O2	24:BA:1083:U:C2'	2.56	0.53
24:BA:443:A:C4'	24:BA:1201:C:H5'	2.36	0.53
24:BA:1223:C:N1	24:BA:1227:A:N1	2.57	0.53
24:BA:1427:A:O2'	24:BA:1428:C:OP2	2.27	0.53
24:BA:141(A):C:O2'	24:BA:142:G:H5'	2.07	0.53
24:BA:1492:G:N3	24:BA:1493:C:C4	2.77	0.53
24:BA:1529:A:H8	24:BA:1530:G:N9	2.07	0.53
24:BA:1605:C:H3'	24:BA:1606:G:C8	2.44	0.53
24:BA:1607:C:C2'	24:BA:1607:C:O2	2.56	0.53
24:BA:1607:C:O2'	24:BA:1608:A:OP2	2.25	0.53
24:BA:1650:G:O2'	24:BA:1651:G:O5'	2.26	0.53
24:BA:1671:U:O2'	28:BE:129:HIS:HE1	1.92	0.53
24:BA:1847:A:C2	24:BA:1851:U:O4	2.61	0.53
24:BA:1905:C:H5'	24:BA:1928:A:N6	2.23	0.53
24:BA:1784:A:C8	24:BA:1981:A:C5	2.96	0.53
24:BA:2097:C:C2'	24:BA:2098:U:C5'	2.86	0.53
24:BA:2224:G:O2'	24:BA:2226:C:C5	2.57	0.53
24:BA:2303:G:C6	24:BA:2304:G:N7	2.76	0.53
24:BA:2655:G:H2'	24:BA:2656:U:OP2	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2686:G:O2'	24:BA:2687:U:C5'	2.56	0.53
24:BA:2714:G:C5	24:BA:2715:C:C5	2.96	0.53
24:BA:2720:U:C3'	24:BA:2721:A:H8	2.21	0.53
24:BA:2732:G:OP2	24:BA:2732:G:H8	1.92	0.53
24:BA:2809:A:C1'	24:BA:2811:G:N7	2.72	0.53
24:BA:2817:G:C2	24:BA:2830:G:N3	2.77	0.53
24:BA:2892:A:H2'	24:BA:2893:G:H1'	1.91	0.53
24:BA:322:A:O4'	24:BA:341:G:H5'	2.08	0.53
24:BA:389:G:H2'	24:BA:389:G:N3	2.21	0.53
24:BA:500:G:H2'	24:BA:501:A:H3'	1.89	0.53
24:BA:511:U:H5	24:BA:512:G:C2	2.26	0.53
24:BA:638:G:C2'	24:BA:639:U:H5'	2.37	0.53
24:BA:786:C:C2'	24:BA:787:U:C5'	2.87	0.53
27:BD:134:ARG:CA	27:BD:168:ARG:HH22	2.21	0.53
27:BD:209:ALA:C	27:BD:213:ARG:HG2	2.28	0.53
27:BD:254:THR:C	27:BD:255:LYS:HG3	2.29	0.53
27:BD:27:THR:HG21	27:BD:82:ILE:HG22	1.90	0.53
28:BE:100:GLU:O	28:BE:172:VAL:CG1	2.52	0.53
28:BE:85:ASN:N	28:BE:85:ASN:HD22	2.04	0.53
28:BE:92:THR:HG23	28:BE:96:PHE:N	2.22	0.53
29:BF:11:VAL:HG22	29:BF:126:VAL:HG12	1.89	0.53
29:BF:155:LEU:HA	29:BF:174:VAL:CG2	2.38	0.53
29:BF:78:ILE:CD1	29:BF:79:GLY:H	2.20	0.53
32:BK:11:ASN:O	32:BK:13:GLY:N	2.41	0.53
34:BM:13:TRP:O	34:BM:14:VAL:CG2	2.56	0.53
35:BN:70:LYS:HZ1	35:BN:102:VAL:HG13	1.73	0.53
35:BN:39:ILE:C	35:BN:59:LYS:HZ3	2.03	0.53
35:BN:6:THR:HG23	35:BN:21:CYS:HB3	1.90	0.53
36:BO:16:ARG:HG3	36:BO:19:VAL:CG2	2.38	0.53
24:BA:1249:U:O4	36:BO:21:ARG:NH2	2.42	0.53
36:BO:76:LYS:HG3	36:BO:77:ARG:N	2.22	0.53
37:BP:65:PHE:O	37:BP:66:ILE:CG1	2.54	0.53
38:BQ:53:HIS:ND1	38:BQ:56:LYS:HE2	2.24	0.53
38:BQ:67:LEU:HD21	38:BQ:72:ASP:H	1.73	0.53
39:BR:62:LYS:O	39:BR:65:VAL:HG13	2.07	0.53
40:BS:33:LYS:HG3	40:BS:45:PHE:CZ	2.44	0.53
40:BS:33:LYS:HG3	40:BS:45:PHE:CE2	2.43	0.53
42:BU:23:GLU:CA	42:BU:93:GLU:HB3	2.37	0.53
42:BU:40:LEU:HB3	42:BU:51:VAL:HG13	1.91	0.53
42:BU:57:VAL:HG12	42:BU:58:VAL:HG23	1.89	0.53
42:BU:68:LYS:HG2	42:BU:95:LEU:CD2	2.31	0.53
43:BV:42:ARG:HG3	43:BV:43:GLY:H	1.71	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BW:20:GLY:O	44:BW:25:LYS:O	2.27	0.53
46:BY:139:VAL:HG12	46:BY:140:ASP:N	2.23	0.53
46:BY:153:SER:N	46:BY:168:GLU:HB2	2.24	0.53
47:BZ:32:ARG:HB2	47:BZ:32:ARG:CZ	2.38	0.53
32:BK:70:LYS:HZ2	32:BK:70:LYS:HA	1.72	0.53
32:BK:93:THR:HG23	32:BK:95:LYS:CB	2.37	0.53
3:AD:21:A:N6	3:AD:48:C:C5	2.76	0.53
3:AD:9:A:N3	3:AD:46:G:C1'	2.72	0.53
26:BC:39:GLU:HB3	26:BC:178:ALA:HB2	1.90	0.53
26:BC:87:GLU:CG	26:BC:94:VAL:HG21	2.24	0.53
24:BA:1416:G:O2'	24:BA:1417:C:C6	2.57	0.53
24:BA:274:G:C3'	24:BA:274:G:N3	2.70	0.53
26:BC:70:LYS:O	26:BC:71:GLN:HB3	2.07	0.53
1:AA:998(A):C:O2	1:AA:998(A):C:H2'	2.08	0.53
1:AA:1068:G:C6	1:AA:1108:G:N3	2.77	0.53
1:AA:1124:G:OP1	12:AM:35:SER:O	2.26	0.53
1:AA:1159:U:O4	1:AA:1182:G:N3	2.41	0.53
1:AA:119:A:O2'	1:AA:120:A:OP2	2.13	0.53
1:AA:67:C:C4'	1:AA:172:A:H1'	2.39	0.53
1:AA:251:G:C2	1:AA:266:G:O6	2.61	0.53
1:AA:258:G:C6	1:AA:259:G:C6	2.97	0.53
1:AA:328:C:O2	1:AA:328:C:H3'	2.08	0.53
1:AA:328:C:H4'	1:AA:329:A:O5'	2.09	0.53
1:AA:433:C:C4	1:AA:434:U:O4	2.62	0.53
1:AA:601:C:H2'	1:AA:602:A:O4'	2.07	0.53
1:AA:601:C:C2	1:AA:638:G:C2	2.96	0.53
1:AA:660:G:H2'	1:AA:661:G:H8	1.72	0.53
1:AA:667:G:H5''	17:AR:51:HIS:CE1	2.43	0.53
1:AA:739:C:O2'	1:AA:740:U:H5'	2.09	0.53
1:AA:832:C:C2	1:AA:855:G:N1	2.77	0.53
1:AA:868:C:H3'	1:AA:869:G:H8	1.73	0.53
1:AA:876:G:H1'	10:AK:11:THR:HG21	1.90	0.53
1:AA:758:G:H4'	1:AA:880:C:H4'	1.90	0.53
3:AB:50:U:H2'	3:AB:51:U:H6	1.73	0.53
3:AC:57:G:H2'	3:AC:58:A:H5''	1.91	0.53
4:AE:124:SER:HB3	4:AE:126:GLU:CD	2.28	0.53
4:AE:132:LYS:HZ3	4:AE:132:LYS:N	2.07	0.53
4:AE:12:GLU:OE1	4:AE:209:ARG:NH2	2.40	0.53
4:AE:219:VAL:HA	4:AE:222:ILE:HD11	1.90	0.53
5:AF:112:SER:OG	5:AF:115:LEU:HD12	2.08	0.53
5:AF:193:TYR:CD2	5:AF:193:TYR:N	2.75	0.53
6:AG:107:ARG:CA	6:AG:107:ARG:HH11	2.07	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:129:ASN:ND2	6:AG:144:ASP:OD1	2.41	0.53
7:AH:69:VAL:O	7:AH:70:PRO:C	2.47	0.53
9:AJ:108:ALA:HA	9:AJ:111:ARG:HG3	1.90	0.53
7:AH:78:HIS:HB3	10:AK:104:ARG:HB3	1.90	0.53
1:AA:539:A:OP1	14:AO:114:LYS:CE	2.56	0.53
14:AO:32:PHE:HB2	14:AO:84:LEU:CD1	2.36	0.53
1:AA:519:C:H5'	14:AO:51:ALA:HB2	1.90	0.53
16:AQ:39:LEU:HB2	16:AQ:44:LEU:HD13	1.89	0.53
17:AR:17:ARG:NH1	17:AR:77:ARG:CD	2.70	0.53
17:AR:64:ARG:HG2	17:AR:65:ARG:N	2.22	0.53
19:AT:3:LYS:HD3	19:AT:60:ILE:HD11	1.90	0.53
19:AT:66:SER:HB3	19:AT:69:LYS:NZ	2.23	0.53
20:AU:58:LEU:O	20:AU:59:SER:O	2.27	0.53
48:B1:13:PRO:O	48:B1:17:GLU:HG3	2.08	0.53
48:B1:21:ARG:O	48:B1:24:LYS:HB2	2.08	0.53
50:B3:5:ILE:O	50:B3:6:HIS:CB	2.55	0.53
54:B7:16:ILE:HG22	54:B7:57:ARG:HH22	1.72	0.53
24:BA:1021:A:H2	24:BA:1122:G:H4'	1.73	0.53
24:BA:120:U:C1'	24:BA:149:A:N3	2.71	0.53
24:BA:1287:A:H2'	24:BA:1287:A:N3	2.24	0.53
24:BA:1309:G:C6	24:BA:1310:G:N7	2.76	0.53
24:BA:1422:G:C2	24:BA:1423:G:C8	2.96	0.53
24:BA:1660:C:C4	24:BA:2001:A:N6	2.76	0.53
24:BA:1703:G:H2'	24:BA:1704:G:C5'	2.38	0.53
24:BA:1771:C:O2'	24:BA:1772:G:H5'	2.07	0.53
24:BA:1786:A:H4'	24:BA:1938:A:N6	2.10	0.53
24:BA:1803:A:C8	24:BA:1803:A:OP2	2.60	0.53
24:BA:1820:U:C2'	27:BD:202:LYS:CG	2.83	0.53
24:BA:1826:G:H2'	24:BA:1827:C:C5'	2.36	0.53
24:BA:195:A:OP2	24:BA:196:A:O3'	2.27	0.53
24:BA:2055:C:O2	24:BA:2055:C:H2'	2.08	0.53
24:BA:218:A:C2	24:BA:235:U:H4'	2.43	0.53
24:BA:2206:C:C2	24:BA:2207:C:C6	2.96	0.53
24:BA:2210:G:C6	27:BD:150:LYS:CA	2.82	0.53
24:BA:2215:G:H2'	24:BA:2216:G:C8	2.44	0.53
24:BA:2238:G:O2'	24:BA:2239:G:C5'	2.55	0.53
24:BA:2309:A:N3	24:BA:2309:A:C2'	2.72	0.53
24:BA:2263:C:H4'	24:BA:2329:G:H4'	1.90	0.53
24:BA:2393:A:O3'	36:BO:57:THR:HA	2.08	0.53
24:BA:2615:U:C2	24:BA:2616:C:C5	2.97	0.53
24:BA:2686:G:O2'	24:BA:2687:U:H5'	2.07	0.53
24:BA:2792:G:N1	24:BA:2793:G:C5	2.77	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2789:C:C2'	24:BA:2893:G:N2	2.70	0.53
24:BA:290:G:C8	24:BA:290:G:C3'	2.91	0.53
24:BA:289:A:C2'	24:BA:351:G:N1	2.63	0.53
24:BA:412:A:C8	24:BA:2412:A:N3	2.76	0.53
24:BA:52:A:H8	24:BA:52:A:O5'	1.92	0.53
24:BA:623:G:H2'	24:BA:624:C:C5'	2.36	0.53
24:BA:662:G:H5'	36:BO:17:LYS:N	2.20	0.53
24:BA:67:U:O5'	24:BA:67:U:C6	2.61	0.53
24:BA:811:U:O2'	24:BA:812:C:OP1	2.24	0.53
24:BA:946:G:H2'	24:BA:947:G:C8	2.44	0.53
24:BA:956:G:C8	24:BA:956:G:H3'	2.43	0.53
24:BA:991:C:O2'	24:BA:992:C:H5'	2.08	0.53
25:BB:50:G:OP1	39:BR:63:THR:OG1	2.24	0.53
25:BB:56:G:H4'	25:BB:57:A:H5''	1.89	0.53
24:BA:1790:C:P	27:BD:220:HIS:HB3	2.48	0.53
27:BD:5:LYS:HD3	27:BD:31:LYS:NZ	2.23	0.53
24:BA:1656:C:H5'	28:BE:136:ARG:NH1	2.23	0.53
24:BA:2051:A:C3'	28:BE:141:ILE:HD11	2.38	0.53
28:BE:176:ILE:CG2	28:BE:181:LEU:O	2.56	0.53
29:BF:201:VAL:CG1	29:BF:205:ARG:NH2	2.72	0.53
29:BF:77:ASP:CG	29:BF:80:ALA:HB2	2.29	0.53
30:BG:120:LEU:HA	30:BG:181:ARG:HG2	1.89	0.53
31:BH:117:PRO:HB3	31:BH:123:PHE:CE2	2.43	0.53
31:BH:6:ARG:N	31:BH:7:LEU:HD23	2.22	0.53
35:BN:31:LYS:HB3	35:BN:32:TYR:CE2	2.43	0.53
35:BN:97:ARG:HE	35:BN:98:VAL:C	2.12	0.53
24:BA:623:G:P	36:BO:105:LEU:HD11	2.48	0.53
37:BP:114:ALA:O	37:BP:115:MET:C	2.45	0.53
37:BP:81:VAL:CG1	37:BP:82:ARG:N	2.54	0.53
38:BQ:26:LYS:HE2	38:BQ:70:LEU:HB3	1.90	0.53
39:BR:73:LEU:N	39:BR:73:LEU:HD13	2.17	0.53
39:BR:74:ALA:HB1	39:BR:108:GLY:HA2	1.79	0.53
40:BS:105:LEU:HG	40:BS:106:SER:N	2.23	0.53
40:BS:20:PRO:HB3	40:BS:22:PHE:HE1	1.73	0.53
40:BS:93:ARG:HG2	40:BS:95:ARG:HH11	1.74	0.53
41:BT:45:TYR:C	41:BT:47:TYR:N	2.60	0.53
41:BT:56:ASP:O	41:BT:60:LEU:HG	2.09	0.53
41:BT:68:ALA:O	41:BT:72:HIS:ND1	2.38	0.53
41:BT:88:ILE:CB	42:BU:52:VAL:HG13	2.37	0.53
43:BV:76:VAL:CG2	43:BV:102:HIS:O	2.56	0.53
43:BV:40:ASN:O	43:BV:41:LYS:CB	2.56	0.53
44:BW:31:HIS:CE1	44:BW:33:LYS:HB3	2.43	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BW:85:PRO:HG2	44:BW:87:GLN:CG	2.31	0.53
44:BW:9:LEU:H	44:BW:9:LEU:HD12	1.72	0.53
46:BY:6:LYS:CG	46:BY:7:ALA:H	2.20	0.53
47:BZ:59:LEU:HD21	47:BZ:79:VAL:HG21	1.90	0.53
32:BK:76:THR:HG22	32:BK:141:LYS:CD	2.38	0.53
32:BK:59:ALA:CA	32:BK:62:LYS:HD2	2.32	0.53
32:BK:78:THR:CA	32:BK:79:ILE:HD12	2.37	0.53
32:BK:93:THR:HG22	32:BK:96:ASP:OD2	2.06	0.53
3:AD:56:C:C4	24:BA:2169:A:C4	2.97	0.53
26:BC:185:LEU:N	26:BC:185:LEU:HD23	2.23	0.53
24:BA:181:A:C2	24:BA:434:U:O2'	2.62	0.53
32:BK:133:HIS:HB3	32:BK:136:VAL:HG23	1.91	0.53
2:A1:35:U:H3'	2:A1:35:U:C6	2.43	0.53
2:A1:37:U:O5'	2:A1:37:U:C6	2.61	0.53
1:AA:1041:A:C2	1:AA:1042:G:C8	2.96	0.53
1:AA:1055:A:N7	1:AA:1206:G:C2	2.76	0.53
1:AA:105:G:H2'	1:AA:106:C:H6	1.69	0.53
1:AA:1068:G:N1	1:AA:1108:G:H1'	2.24	0.53
1:AA:1157:A:H5''	1:AA:1158:C:OP1	2.09	0.53
1:AA:1297:C:HO2'	1:AA:1298:C:H6	1.56	0.53
1:AA:130:A:C6	1:AA:264:U:H1'	2.43	0.53
1:AA:1321:C:N3	21:AV:37:ARG:NH2	2.56	0.53
1:AA:1422:G:C2	1:AA:1423:G:C5	2.97	0.53
1:AA:1508:G:H2'	1:AA:1509:C:C6	2.43	0.53
1:AA:292:G:C2	1:AA:309:G:C2	2.97	0.53
1:AA:399:G:C4	1:AA:400:C:C5	2.96	0.53
1:AA:46:G:C2	1:AA:396:G:C6	2.96	0.53
1:AA:587:G:C2	1:AA:755:G:C6	2.96	0.53
1:AA:81:G:C6	1:AA:82:U:O4	2.62	0.53
1:AA:875:C:O2'	1:AA:876:G:O5'	2.18	0.53
1:AA:585:G:O2'	1:AA:879:C:H5''	2.08	0.53
1:AA:992:U:H4'	1:AA:993:G:C5'	2.39	0.53
1:AA:994:A:N3	16:AQ:5:ALA:HA	2.22	0.53
4:AE:82:ARG:HA	4:AE:92:TYR:OH	2.08	0.53
5:AF:11:ARG:HH12	5:AF:180:ALA:N	2.05	0.53
5:AF:126:ARG:O	5:AF:127:ARG:CB	2.56	0.53
5:AF:151:VAL:HG13	5:AF:200:ALA:HB2	1.90	0.53
5:AF:182:ILE:HG22	5:AF:183:ASP:N	2.23	0.53
6:AG:106:TYR:CD2	6:AG:114:ARG:N	2.77	0.53
6:AG:128:VAL:HG21	6:AG:133:VAL:CG2	2.38	0.53
6:AG:179:GLU:O	6:AG:181:MET:N	2.33	0.53
7:AH:150:ARG:HD3	7:AH:150:ARG:C	2.29	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AH:50:GLU:HB2	7:AH:53:LEU:CD2	2.38	0.53
7:AH:78:HIS:CD2	7:AH:78:HIS:N	2.72	0.53
8:AI:47:ARG:O	20:AU:78:LEU:HD22	2.08	0.53
10:AK:7:ALA:O	10:AK:10:LEU:N	2.41	0.53
10:AK:69:ARG:NH2	10:AK:75:ARG:O	2.41	0.53
11:AL:23:ASN:O	11:AL:59:PHE:N	2.41	0.53
11:AL:31:GLN:OE1	11:AL:31:GLN:N	2.41	0.53
1:AA:780:A:OP1	13:AN:122:LYS:HA	2.08	0.53
13:AN:48:ILE:HD12	13:AN:63:LEU:CD2	2.22	0.53
15:AP:16:ASP:C	15:AP:19:LEU:HG	2.28	0.53
17:AR:70:LEU:HD21	17:AR:81:LEU:HD13	1.90	0.53
1:AA:450:G:H5'	18:AS:43:LYS:HZ2	1.74	0.53
19:AT:4:LYS:O	19:AT:5:VAL:CG2	2.57	0.53
19:AT:60:ILE:HD11	19:AT:62:SER:HA	1.89	0.53
1:AA:277:C:OP1	19:AT:68:ARG:NH1	2.41	0.53
1:AA:235:C:OP1	19:AT:70:ARG:HG3	2.07	0.53
20:AU:75:ILE:O	20:AU:76:LEU:C	2.45	0.53
21:AV:79:THR:O	21:AV:79:THR:HG22	2.08	0.53
22:AW:72:LEU:HD13	22:AW:77:ALA:CA	2.38	0.53
23:AX:21:TYR:O	23:AX:22:ARG:HB2	2.08	0.53
48:B1:30:LEU:O	48:B1:33:GLN:HB2	2.09	0.53
3:AD:74:C:OP2	50:B3:30:GLU:OE1	2.27	0.53
50:B3:42:PHE:H	50:B3:58:ARG:HG3	1.74	0.53
51:B4:30:LEU:HD23	51:B4:39:MET:SD	2.47	0.53
52:B5:20:ASN:CG	52:B5:42:TRP:HD1	2.12	0.53
53:B6:17:GLY:N	53:B6:21:ARG:NH2	2.45	0.53
54:B7:26:LYS:CB	54:B7:44:LYS:HZ1	2.21	0.53
24:BA:2526:G:H1'	55:B8:35:ARG:HH12	1.74	0.53
24:BA:1057:A:H2'	24:BA:1058:G:C8	2.41	0.53
24:BA:999:U:O2	24:BA:1157:G:C2	2.62	0.53
24:BA:1291:C:H2'	24:BA:1292:U:O4'	2.09	0.53
24:BA:1433:U:O2	24:BA:1561:G:N2	2.42	0.53
24:BA:1539:G:O6	24:BA:1540:G:C6	2.62	0.53
24:BA:154:G:O2'	24:BA:155:C:H5'	2.07	0.53
24:BA:1676:A:N7	24:BA:1677:A:N7	2.56	0.53
24:BA:1759:A:H3'	24:BA:1759:A:OP2	2.08	0.53
24:BA:1869:G:N3	24:BA:1878:G:C6	2.77	0.53
24:BA:1899:G:H3'	24:BA:1899:G:C8	2.44	0.53
24:BA:1926:U:HO2'	24:BA:1927:A:H8	1.54	0.53
24:BA:1930:G:O2'	24:BA:1931:U:O5'	2.26	0.53
24:BA:1945:G:C4	24:BA:1946:U:C5	2.97	0.53
24:BA:201:C:C2'	24:BA:202:U:H5'	2.37	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2051:A:C2	24:BA:2614:A:C6	2.97	0.53
24:BA:2083:G:O2'	24:BA:2084:C:H5'	2.09	0.53
24:BA:2230:G:N2	24:BA:2231:C:C2	2.77	0.53
24:BA:2293:C:H2'	24:BA:2294:C:H6	1.73	0.53
24:BA:2285:C:O2	24:BA:2384:G:N2	2.41	0.53
24:BA:2412:A:H3'	24:BA:2413:G:H8	1.74	0.53
24:BA:2246:G:N9	24:BA:2426:A:C2	2.77	0.53
24:BA:243:U:H5'	54:B7:5:LYS:NZ	2.24	0.53
24:BA:2893:G:OP2	24:BA:2893:G:C8	2.61	0.53
24:BA:107:C:C4'	24:BA:293:U:H1'	2.32	0.53
24:BA:269:U:N3	24:BA:424:G:N1	2.56	0.53
24:BA:616:A:C4'	24:BA:617:G:OP1	2.54	0.53
24:BA:624:C:OP2	36:BO:105:LEU:HD23	2.08	0.53
24:BA:641:C:H2'	24:BA:642:G:C4'	2.37	0.53
24:BA:672:C:H2'	24:BA:673:C:C5	2.44	0.53
24:BA:673:C:C4	24:BA:808:G:N2	2.77	0.53
24:BA:685:A:H1'	24:BA:688:U:O4	2.07	0.53
24:BA:70:G:H4'	24:BA:71:A:H5''	1.89	0.53
24:BA:858:U:C6	24:BA:859:G:N2	2.77	0.53
24:BA:889:C:H1'	24:BA:892:G:N7	2.23	0.53
24:BA:989:G:P	49:B2:10:LYS:HZ1	2.32	0.53
25:BB:32:C:C3'	25:BB:33:G:H8	2.21	0.53
27:BD:117:VAL:HG22	27:BD:129:ASN:OD1	2.08	0.53
27:BD:17:THR:C	27:BD:19:ALA:N	2.58	0.53
27:BD:40:THR:HG22	27:BD:41:GLY:O	2.09	0.53
28:BE:38:THR:HG22	28:BE:39:PRO:N	2.22	0.53
28:BE:51:PHE:C	28:BE:74:PRO:HB3	2.25	0.53
29:BF:118:ALA:CA	29:BF:122:LYS:HB2	2.38	0.53
29:BF:15:SER:OG	29:BF:16:GLY:N	2.41	0.53
29:BF:196:LEU:HD22	29:BF:199:TRP:CD1	2.44	0.53
29:BF:201:VAL:HG12	29:BF:205:ARG:HH21	1.73	0.53
29:BF:32:LEU:O	29:BF:35:GLU:HB2	2.07	0.53
30:BG:56:ALA:HB1	30:BG:68:PRO:HG2	1.90	0.53
31:BH:87:LEU:O	31:BH:132:ARG:HB3	2.08	0.53
31:BH:9:ILE:HD13	31:BH:73:ALA:HB2	1.87	0.53
34:BM:53:VAL:HG11	34:BM:123:TYR:HE2	1.73	0.53
34:BM:134:ARG:O	34:BM:135:PRO:O	2.27	0.53
36:BO:99:LEU:HD23	36:BO:100:LEU:N	2.23	0.53
36:BO:112:LEU:C	36:BO:129:ALA:HB3	2.28	0.53
24:BA:636:G:H2'	36:BO:113:LYS:HZ1	1.72	0.53
36:BO:32:THR:OG1	36:BO:35:HIS:CE1	2.61	0.53
36:BO:33:ARG:HG3	36:BO:35:HIS:CD2	2.43	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:6:ARG:CZ	37:BP:8:LYS:HG3	2.39	0.53
38:BQ:61:HIS:HD1	38:BQ:64:ARG:CZ	2.20	0.53
39:BR:7:TYR:HB3	39:BR:11:LYS:HZ1	1.71	0.53
40:BS:17:THR:CB	40:BS:20:PRO:CD	2.85	0.53
40:BS:30:VAL:CG2	40:BS:32:TYR:CE2	2.85	0.53
42:BU:40:LEU:CA	42:BU:51:VAL:HG13	2.38	0.53
44:BW:32:PRO:O	44:BW:33:LYS:CB	2.57	0.53
44:BW:39:ILE:HD12	44:BW:54:VAL:HG12	1.89	0.53
45:BX:75:ILE:HG23	45:BX:75:ILE:O	2.07	0.53
45:BX:93:GLY:C	45:BX:95:LYS:H	2.11	0.53
46:BY:95:PRO:CB	46:BY:130:PRO:HA	2.39	0.53
47:BZ:23:VAL:HA	47:BZ:38:VAL:CG1	2.37	0.53
47:BZ:21:LEU:HD11	47:BZ:40:GLN:CA	2.39	0.53
24:BA:2132:U:O2	24:BA:2133:G:H5'	2.09	0.53
2:A1:23:A:H2'	2:A1:24:A:C8	2.44	0.53
1:AA:1164:G:H1'	1:AA:1173:G:N2	2.23	0.53
1:AA:490:G:H2'	1:AA:491:G:H8	1.72	0.53
2:A1:25:G:C2	2:A1:26:G:H1'	2.44	0.53
1:AA:1138:G:N1	1:AA:1140:C:C5	2.77	0.53
1:AA:1161:C:OP2	1:AA:1161:C:H6	1.92	0.53
1:AA:1443:G:O2'	1:AA:1447:G:P	2.66	0.53
1:AA:1443:G:O2'	1:AA:1446:A:O3'	2.27	0.53
1:AA:193:C:H2'	1:AA:194:C:H6	1.73	0.53
1:AA:290:C:C6	1:AA:290:C:O5'	2.55	0.53
1:AA:515:G:H3'	1:AA:516:U:H6	1.73	0.53
1:AA:594:G:H2'	1:AA:595:G:C1'	2.38	0.53
1:AA:597:G:C5	1:AA:644:G:C2	2.96	0.53
1:AA:658:G:O2'	1:AA:659:U:H5'	2.09	0.53
1:AA:716:A:C2'	1:AA:717:C:H5'	2.39	0.53
1:AA:821:G:O2'	1:AA:822:C:C5'	2.55	0.53
1:AA:828:A:C8	1:AA:829:G:C8	2.97	0.53
1:AA:969:A:H5'	1:AA:970:C:OP2	2.08	0.53
3:AC:21:A:N7	3:AC:46:G:C6	2.76	0.53
3:AD:73:A:C2	3:AD:74:C:O4'	2.61	0.53
4:AE:99:GLY:HA3	4:AE:101:MET:SD	2.48	0.53
4:AE:107:THR:HA	4:AE:110:GLN:OE1	2.09	0.53
4:AE:175:ARG:HD2	4:AE:179:LYS:CE	2.38	0.53
4:AE:193:ASP:O	4:AE:194:PRO:C	2.46	0.53
4:AE:72:GLY:O	4:AE:73:THR:C	2.47	0.53
1:AA:1109:C:OP1	5:AF:176:HIS:NE2	2.42	0.53
5:AF:17:ASP:OD2	5:AF:18:TRP:HZ3	1.90	0.53
5:AF:24:ALA:CB	5:AF:32:LEU:HD12	2.38	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:87:LEU:HD12	5:AF:101:LEU:HD11	1.91	0.53
6:AG:98:GLU:CD	6:AG:107:ARG:HG3	2.28	0.53
6:AG:118:ARG:HG3	6:AG:118:ARG:NH2	2.21	0.53
6:AG:187:ARG:HD2	6:AG:188:LEU:H	1.73	0.53
6:AG:200:GLU:CG	6:AG:201:GLN:H	2.22	0.53
6:AG:18:LYS:HE2	6:AG:20:TYR:CD2	2.44	0.53
6:AG:6:GLY:O	6:AG:8:VAL:CG2	2.56	0.53
7:AH:141:GLN:OE1	7:AH:141:GLN:CA	2.55	0.53
8:AI:76:ALA:HB1	8:AI:80:ARG:CZ	2.39	0.53
9:AJ:76:ARG:HD3	9:AJ:156:TRP:CD1	2.43	0.53
11:AL:19:LEU:HD22	11:AL:59:PHE:CD2	2.40	0.53
11:AL:58:HIS:HD2	11:AL:59:PHE:CD1	2.25	0.53
12:AM:23:ILE:O	12:AM:27:ALA:HB3	2.08	0.53
12:AM:24:VAL:CA	12:AM:34:VAL:HG21	2.35	0.53
12:AM:6:ILE:HG21	12:AM:98:ILE:HG13	1.90	0.53
13:AN:50:TYR:CZ	13:AN:54:ARG:HB3	2.44	0.53
1:AA:33:A:N3	14:AO:32:PHE:HZ	2.06	0.53
1:AA:1308:U:O5'	15:AP:99:ARG:NH1	2.41	0.53
1:AA:659:U:OP1	17:AR:9:GLN:CD	2.46	0.53
18:AS:26:ARG:HD2	18:AS:31:LYS:H	1.73	0.53
20:AU:29:PHE:CE1	20:AU:36:ASN:OD1	2.62	0.53
20:AU:72:ARG:HA	20:AU:75:ILE:CD1	2.20	0.53
22:AW:79:ARG:HG3	22:AW:79:ARG:HH11	1.73	0.53
48:B1:52:ILE:HG23	48:B1:55:LEU:HD22	1.90	0.53
50:B3:12:ALA:N	50:B3:40:HIS:NE2	2.56	0.53
53:B6:8:ASN:ND2	53:B6:10:ARG:N	2.56	0.53
24:BA:469:G:C2	53:B6:40:TRP:HZ2	2.21	0.53
24:BA:1048:A:C2	24:BA:1049:C:H1'	2.44	0.53
24:BA:1065:U:C3'	24:BA:1066:U:H5''	2.38	0.53
24:BA:565:C:C1'	24:BA:1252:G:O6	2.56	0.53
24:BA:141(A):C:H6	24:BA:141(A):C:O5'	1.92	0.53
24:BA:1499:C:H3'	24:BA:1500:G:C8	2.43	0.53
24:BA:1543:A:N7	24:BA:1544:C:H1'	2.23	0.53
24:BA:1624:G:N1	24:BA:1625:C:N4	2.57	0.53
24:BA:1640:C:H2'	24:BA:1641:A:O4'	2.07	0.53
24:BA:155:C:C2	24:BA:171:G:N2	2.77	0.53
24:BA:1772:G:H21	24:BA:1774:C:C5'	2.21	0.53
24:BA:1801:G:C8	24:BA:1801:G:OP1	2.61	0.53
24:BA:1808:U:O2	24:BA:1808:U:H2'	2.07	0.53
24:BA:1813:G:N3	24:BA:1813:G:H2'	2.24	0.53
24:BA:1820:U:H2'	27:BD:202:LYS:HZ3	1.74	0.53
24:BA:1842:G:N3	24:BA:1843:C:C6	2.77	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1952:A:C4	24:BA:1953:A:C2	2.96	0.53
24:BA:1657:C:N3	24:BA:2004:G:N2	2.56	0.53
24:BA:2092:U:H5	24:BA:2227:A:C6	2.26	0.53
24:BA:2226:C:O2'	24:BA:2227:A:H5'	2.08	0.53
24:BA:2373:G:O2'	24:BA:2374:C:C6	2.61	0.53
24:BA:2387:U:C2	47:BZ:41:ARG:NH2	2.77	0.53
24:BA:2421:G:N3	24:BA:2422:A:N7	2.57	0.53
24:BA:243:U:N3	24:BA:244:A:C8	2.77	0.53
24:BA:2545:G:H2'	24:BA:2546:U:H5'	1.91	0.53
24:BA:270(Z):U:C2'	24:BA:270(Z):U:O2	2.56	0.53
24:BA:2728:U:H2'	24:BA:2729:G:C8	2.44	0.53
24:BA:2731:G:C2	24:BA:2732:G:C2	2.96	0.53
24:BA:2813:A:H2'	24:BA:2814:C:C6	2.43	0.53
24:BA:2828:C:N3	24:BA:2829:C:C5	2.76	0.53
24:BA:446:G:H4'	24:BA:449:A:N7	2.23	0.53
24:BA:608:A:H2'	24:BA:609:A:H5'	1.90	0.53
24:BA:64:A:HO2'	24:BA:65:C:H5'	1.71	0.53
24:BA:805:G:C2'	24:BA:806:C:OP1	2.53	0.53
24:BA:834:C:O5'	24:BA:834:C:H6	1.91	0.53
24:BA:957:A:OP2	37:BP:77:LYS:CD	2.46	0.53
24:BA:989:G:HO2'	24:BA:990:A:P	2.31	0.53
25:BB:62:C:O2	25:BB:63:G:C8	2.62	0.53
25:BB:79:C:N4	25:BB:80:U:C4	2.76	0.53
25:BB:89:G:C8	25:BB:89(A):A:N7	2.76	0.53
27:BD:5:LYS:O	27:BD:27:THR:HG22	2.08	0.53
28:BE:149:ARG:NH1	28:BE:150:VAL:O	2.40	0.53
28:BE:59:VAL:C	28:BE:62:PRO:HD2	2.28	0.53
28:BE:4:ILE:CD1	28:BE:76:ARG:CZ	2.81	0.53
29:BF:122:LYS:HE3	29:BF:192:LEU:HB3	1.89	0.53
29:BF:69:HIS:C	29:BF:69:HIS:ND1	2.59	0.53
30:BG:26:GLN:O	30:BG:27:ASN:HB2	2.09	0.53
30:BG:40:ASN:HD22	30:BG:41:GLN:N	2.00	0.53
30:BG:59:GLU:HB3	30:BG:152:LEU:HD13	1.89	0.53
3:AC:19:G:H21	30:BG:82:LEU:CD1	2.19	0.53
33:BL:112:MET:CE	33:BL:118:THR:HG22	2.39	0.53
35:BN:1:MET:HG3	35:BN:2:ILE:H	1.72	0.53
35:BN:63:VAL:CG2	35:BN:80:ASP:O	2.57	0.53
35:BN:94:ARG:HG3	35:BN:96:THR:N	2.21	0.53
38:BQ:83:ILE:CD1	38:BQ:86:ARG:HE	2.16	0.53
39:BR:57:LYS:NZ	39:BR:65:VAL:CA	2.67	0.53
40:BS:38:ASN:C	40:BS:39:ARG:HG2	2.28	0.53
24:BA:581:C:OP1	41:BT:32:PHE:HB2	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BU:34:GLU:CA	42:BU:62:LEU:O	2.50	0.53
45:BX:71:LYS:CD	45:BX:71:LYS:H	2.16	0.53
46:BY:117:LEU:O	46:BY:174:VAL:HG12	2.09	0.53
46:BY:152:ALA:HB3	46:BY:168:GLU:N	2.23	0.53
46:BY:39:VAL:CG1	46:BY:41:LEU:HD23	2.38	0.53
46:BY:1:MET:H2	46:BY:53:ILE:HD11	1.73	0.53
46:BY:3:TYR:HB3	46:BY:61:LEU:HB2	1.91	0.53
47:BZ:22:GLY:O	47:BZ:38:VAL:CG1	2.56	0.53
32:BK:132:PRO:HD3	32:BK:138:ILE:H	1.71	0.53
24:BA:2125:G:N2	24:BA:2172:U:H5'	2.23	0.53
26:BC:113:VAL:HG12	26:BC:138:PRO:CG	2.38	0.53
26:BC:30:LYS:HD2	26:BC:185:LEU:HD11	1.91	0.53
24:BA:1489:U:O2'	24:BA:1490:A:OP2	2.24	0.53
24:BA:1505:C:O2	24:BA:1505:C:H2'	2.09	0.53
24:BA:1483:G:C1'	24:BA:1507:A:C2	2.90	0.53
36:BO:149:GLU:CD	36:BO:150:ALA:N	2.58	0.53
1:AA:1004:A:H3'	1:AA:1025:U:C2	2.42	0.53
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.32	0.53
1:AA:1101:A:O2'	1:AA:1102:A:P	2.67	0.53
1:AA:1191:A:P	5:AF:4:LYS:NZ	2.81	0.53
1:AA:1239:A:H5''	1:AA:1240:U:OP1	2.09	0.53
1:AA:1284:C:H2'	1:AA:1285:A:C8	2.44	0.53
1:AA:1284:C:N3	1:AA:1285:A:N6	2.56	0.53
1:AA:1292:U:OP2	1:AA:1292:U:H6	1.92	0.53
1:AA:1440:C:OP2	1:AA:1440:C:C6	2.62	0.53
1:AA:1451:A:N3	1:AA:1451:A:H2'	2.22	0.53
1:AA:1454:G:H2'	1:AA:1455:G:C8	2.30	0.53
1:AA:190:G:H4'	1:AA:191(A):G:OP2	2.08	0.53
1:AA:196:A:H1'	1:AA:222:U:C1'	2.38	0.53
1:AA:295:C:H2'	1:AA:296:U:O5'	2.09	0.53
1:AA:352:C:OP1	1:AA:352:C:H6	1.92	0.53
1:AA:465:A:C8	1:AA:467:G:C6	2.96	0.53
1:AA:530:G:C6	3:AB:35:A:O2'	2.53	0.53
1:AA:637:G:O2'	1:AA:638:G:H5'	2.09	0.53
1:AA:736:C:OP1	20:AU:72:ARG:NH2	2.42	0.53
1:AA:740:U:H2'	1:AA:741:G:C8	2.42	0.53
1:AA:979:C:H2'	1:AA:980:C:C5'	2.38	0.53
4:AE:80:ILE:HG12	4:AE:212:GLN:HG2	1.91	0.53
4:AE:54:THR:HG23	4:AE:199:TYR:HB3	1.89	0.53
4:AE:79:ASP:O	4:AE:83:MET:HG2	2.08	0.53
5:AF:125:GLU:O	5:AF:127:ARG:HG3	2.09	0.53
5:AF:24:ALA:CB	5:AF:28:GLN:HE22	2.20	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:49:SER:C	5:AF:51:GLY:H	2.11	0.53
6:AG:161:ASN:O	6:AG:165:MET:HB3	2.08	0.53
6:AG:143:GLY:CA	6:AG:185:PHE:HB3	2.33	0.53
6:AG:78:LEU:HD13	6:AG:96:LEU:CB	2.38	0.53
1:AA:737:A:H5'	8:AI:90:VAL:HG13	1.90	0.53
10:AK:19:VAL:O	10:AK:20:TYR:HB2	2.09	0.53
12:AM:39:PRO:O	12:AM:40:LEU:CB	2.56	0.53
13:AN:101:SER:HG	13:AN:103:LEU:HG	1.73	0.53
14:AO:41:ARG:CG	14:AO:42:THR:N	2.61	0.53
15:AP:81:LEU:HB2	15:AP:86:CYS:SG	2.49	0.53
19:AT:10:VAL:HB	19:AT:54:GLY:C	2.29	0.53
19:AT:27:PHE:O	19:AT:36:ILE:CD1	2.57	0.53
20:AU:46:GLU:N	20:AU:49:LYS:NZ	2.56	0.53
20:AU:47:THR:H	20:AU:49:LYS:NZ	2.00	0.53
22:AW:40:ALA:O	22:AW:41:ILE:C	2.47	0.53
22:AW:91:LEU:HD23	22:AW:91:LEU:H	1.74	0.53
48:B1:14:VAL:HG13	48:B1:18:LYS:NZ	2.24	0.53
49:B2:37:LEU:HG	49:B2:38:GLU:C	2.30	0.53
52:B5:12:GLU:CG	52:B5:13:CYS:N	2.60	0.53
54:B7:15:LYS:HZ3	54:B7:64:TYR:HB3	1.74	0.53
24:BA:1011:G:C5'	24:BA:1012:U:OP2	2.57	0.53
24:BA:1069:A:C6	24:BA:1096:A:OP1	2.62	0.53
24:BA:1122:G:C2	24:BA:1123:C:C6	2.96	0.53
24:BA:1189:A:H5''	36:BO:29:LYS:NZ	2.24	0.53
24:BA:1212:G:O2'	24:BA:1213:A:C8	2.51	0.53
24:BA:1322:A:N7	24:BA:1323:U:C5	2.77	0.53
24:BA:742:G:C4'	24:BA:1675:C:O2'	2.56	0.53
24:BA:1787:A:O2'	24:BA:1788:C:H5'	2.08	0.53
24:BA:1858:G:H22	24:BA:1884:A:C1'	2.22	0.53
24:BA:1842:G:C6	24:BA:1901:A:N1	2.77	0.53
24:BA:1950:G:C5	24:BA:1951:U:H5	2.27	0.53
24:BA:197:A:H5''	24:BA:2068:U:C4	2.44	0.53
24:BA:2253:G:C4	24:BA:2254:C:C5	2.97	0.53
24:BA:2393:A:H2'	24:BA:2394:C:O4'	2.09	0.53
24:BA:2506:U:C2'	24:BA:2507:C:H5'	2.39	0.53
24:BA:2606:C:H6	24:BA:2606:C:C5'	2.21	0.53
24:BA:2618:G:N3	24:BA:2619:C:C6	2.77	0.53
24:BA:2637:U:H3	24:BA:2782:G:N2	2.07	0.53
24:BA:2737:G:H1	24:BA:2768:C:N4	2.06	0.53
24:BA:304:G:C2	24:BA:305:U:H1'	2.43	0.53
24:BA:420:C:H2'	24:BA:421:U:O4'	2.09	0.53
24:BA:424:G:C2	24:BA:425:G:C8	2.97	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:443:A:N7	29:BF:45:ARG:HD3	2.23	0.53
24:BA:454:A:H8	24:BA:454:A:H3'	1.74	0.53
24:BA:498:G:C2'	24:BA:499:U:H5'	2.38	0.53
24:BA:531:C:O2	24:BA:531:C:H2'	2.08	0.53
24:BA:650:C:C4	24:BA:651:G:C2	2.97	0.53
24:BA:780:G:C5	24:BA:782:A:N6	2.76	0.53
24:BA:857:C:O2'	47:BZ:23:VAL:HB	2.09	0.53
24:BA:875:G:C6	24:BA:876:C:C4	2.96	0.53
24:BA:944:G:O2'	24:BA:945:A:OP2	2.26	0.53
24:BA:972:G:OP2	24:BA:972:G:O4'	2.27	0.53
27:BD:133:LEU:HD12	27:BD:187:GLY:CA	2.39	0.53
27:BD:240:ALA:O	27:BD:241:PRO:O	2.26	0.53
27:BD:267:SER:OG	27:BD:268:ARG:N	2.40	0.53
24:BA:1813:G:O2'	27:BD:46:GLN:CD	2.47	0.53
24:BA:1568:G:OP2	27:BD:61:LEU:CD1	2.57	0.53
29:BF:156:LEU:O	29:BF:176:LEU:O	2.26	0.53
24:BA:616:A:H1'	29:BF:180:GLY:HA3	1.91	0.53
30:BG:50:ALA:CA	30:BG:70:VAL:HG13	2.38	0.53
31:BH:121:ILE:HD11	31:BH:123:PHE:CZ	2.43	0.53
33:BL:7:VAL:HA	33:BL:58:THR:HB	1.90	0.53
33:BL:99:ILE:CG2	33:BL:100:THR:H	2.19	0.53
35:BN:105:GLU:O	35:BN:108:GLU:N	2.41	0.53
36:BO:126:VAL:HB	36:BO:146:VAL:H	1.74	0.53
37:BP:46:GLN:HE22	37:BP:126:PRO:HG3	1.74	0.53
38:BQ:32:GLY:O	38:BQ:116:LEU:CD2	2.56	0.53
24:BA:531:C:O2	41:BT:28:ARG:CZ	2.57	0.53
41:BT:48:ALA:CA	41:BT:51:LYS:HD2	2.38	0.53
42:BU:14:VAL:CG1	42:BU:19:LYS:HE2	2.38	0.53
42:BU:23:GLU:HA	42:BU:93:GLU:HB3	1.89	0.53
44:BW:21:PHE:HA	44:BW:26:TYR:CD2	2.44	0.53
44:BW:32:PRO:HG3	44:BW:77:LYS:HB2	1.89	0.53
44:BW:79:ALA:C	44:BW:80:ILE:HD13	2.29	0.53
46:BY:141:VAL:HG12	46:BY:143:GLY:H	1.73	0.53
46:BY:161:VAL:CG1	46:BY:162:GLU:N	2.72	0.53
46:BY:11:GLU:HG3	46:BY:36:LYS:HZ2	1.72	0.53
46:BY:43:GLU:HA	46:BY:46:LYS:CD	2.38	0.53
24:BA:2134:A:C6	24:BA:2135:A:H2	2.26	0.53
24:BA:2136:C:C2	24:BA:2137:C:C6	2.97	0.53
26:BC:68:LEU:CD2	26:BC:69:GLY:N	2.69	0.53
1:AA:131:C:C4	1:AA:232:G:C2	2.97	0.53
1:AA:1072:G:C6	1:AA:1104:G:C6	2.96	0.53
1:AA:1302:U:O2'	1:AA:1303:C:P	2.67	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1307:U:H2'	1:AA:1308:U:O4'	2.09	0.53
1:AA:1251:A:C2	1:AA:1354:C:H1'	2.43	0.53
1:AA:136:C:O4'	18:AS:1:MET:HE1	2.09	0.53
1:AA:1418:A:C2'	1:AA:1419:G:H5'	2.38	0.53
1:AA:1468:A:H2'	1:AA:1469:G:H5'	1.89	0.53
1:AA:363:A:N1	1:AA:364:A:N3	2.57	0.53
1:AA:424:G:O2'	1:AA:425:G:H5'	2.09	0.53
1:AA:521:G:C2	1:AA:522:C:C2	2.96	0.53
1:AA:577:G:H8	1:AA:577:G:OP1	1.91	0.53
1:AA:593:G:C6	1:AA:594:G:C5	2.97	0.53
1:AA:67:C:H2'	1:AA:68:G:C8	2.44	0.53
1:AA:791:G:C8	1:AA:792:A:N7	2.76	0.53
1:AA:855:G:O2'	1:AA:856:C:H5'	2.08	0.53
1:AA:952:U:HO2'	15:AP:126:LYS:C	2.12	0.53
3:AC:34:G:H2'	3:AC:35:A:H8	1.73	0.53
3:AC:5:G:H2'	3:AC:6:G:C8	2.44	0.53
4:AE:196:LEU:CD1	4:AE:196:LEU:C	2.77	0.53
6:AG:124:GLY:O	6:AG:125:HIS:C	2.47	0.53
6:AG:128:VAL:O	6:AG:130:GLY:N	2.42	0.53
9:AJ:10:ARG:HB2	9:AJ:10:ARG:HH11	1.74	0.53
9:AJ:12:LEU:HD22	9:AJ:24:THR:CG2	2.38	0.53
10:AK:48:TYR:CD1	10:AK:49:GLU:N	2.77	0.53
11:AL:23:ASN:ND2	11:AL:24:GLY:N	2.57	0.53
12:AM:30:SER:HB3	12:AM:80:LYS:CG	2.37	0.53
12:AM:61:GLU:CG	12:AM:62:HIS:H	2.19	0.53
13:AN:40:ILE:CD1	13:AN:40:ILE:N	2.61	0.53
13:AN:43:SER:HB3	13:AN:64:ALA:HB1	1.91	0.53
13:AN:58:PRO:HB2	13:AN:93:GLN:HG3	1.91	0.53
14:AO:21:LYS:O	14:AO:22:SER:O	2.27	0.53
14:AO:32:PHE:HB3	14:AO:85:ILE:O	2.09	0.53
14:AO:36:VAL:HG23	14:AO:81:SER:O	2.08	0.53
17:AR:54:ARG:HD3	17:AR:55:GLY:N	2.24	0.53
17:AR:36:ILE:HG13	17:AR:59:MET:SD	2.49	0.53
17:AR:79:ARG:HA	17:AR:82:ILE:CG1	2.38	0.53
19:AT:59:ILE:O	19:AT:59:ILE:HG23	2.08	0.53
19:AT:7:THR:HG23	19:AT:8:GLY:H	1.74	0.53
20:AU:26:LEU:CD2	20:AU:29:PHE:HB2	2.39	0.53
20:AU:39:VAL:O	20:AU:43:PHE:CE1	2.62	0.53
23:AX:3:LYS:HD2	23:AX:14:TRP:HB2	1.90	0.53
49:B2:17:LYS:HA	49:B2:20:LYS:HZ3	1.71	0.53
52:B5:17:LYS:C	52:B5:19:ARG:HD2	2.28	0.53
52:B5:41:PRO:HD2	52:B5:47:THR:OG1	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1069:A:C5'	24:BA:1070:A:H3'	2.39	0.53
24:BA:1255:U:C5'	24:BA:1256:G:C5'	2.69	0.53
24:BA:126:A:C2	53:B6:18:PHE:HB3	2.44	0.53
24:BA:1344:G:C5	24:BA:1385:G:C8	2.97	0.53
24:BA:140:A:H61	24:BA:1596:A:C4'	2.20	0.53
24:BA:143:C:O2	24:BA:144:C:C5	2.61	0.53
24:BA:1451:C:C3'	24:BA:1453:A:H4'	2.38	0.53
24:BA:1475:G:C2'	24:BA:1475:G:N3	2.71	0.53
24:BA:1632:A:C6	24:BA:1633:G:N1	2.76	0.53
24:BA:1691:C:N3	24:BA:1697:G:N2	2.56	0.53
24:BA:1752:C:H5''	24:BA:2862:G:OP1	2.08	0.53
24:BA:1790:C:N3	24:BA:1791:A:N6	2.57	0.53
24:BA:1807:G:N3	24:BA:1809:A:H5'	2.24	0.53
24:BA:1829:A:C2	24:BA:1830:C:C1'	2.91	0.53
24:BA:1911:U:H2'	24:BA:1912:A:C5'	2.36	0.53
24:BA:1944:U:O2	24:BA:1955:U:H6	1.91	0.53
24:BA:1971:A:C3'	24:BA:1971:A:H8	2.16	0.53
24:BA:1996:C:C2	24:BA:1997:G:H4'	2.44	0.53
24:BA:2018:G:C2'	24:BA:2019:A:O4'	2.57	0.53
24:BA:2197:U:C2'	24:BA:2198:A:H5''	2.39	0.53
24:BA:2209:C:H2'	24:BA:2210:G:C3'	2.36	0.53
24:BA:2230:G:O2'	24:BA:2231:C:H5'	2.09	0.53
24:BA:2273:A:C8	24:BA:2274:A:O4'	2.62	0.53
24:BA:2389:G:C5'	24:BA:2390:U:H6	2.21	0.53
24:BA:2415:G:OP1	36:BO:61:ARG:CD	2.53	0.53
24:BA:2436:G:O2'	24:BA:2437:U:OP1	2.27	0.53
24:BA:2573:C:O5'	24:BA:2573:C:H6	1.92	0.53
24:BA:2553:G:C6	24:BA:2583:G:O2'	2.61	0.53
24:BA:2617:C:O2'	24:BA:2618:G:H5'	2.09	0.53
24:BA:261:G:HO2'	24:BA:262:A:H5'	1.73	0.53
24:BA:265:A:H2'	24:BA:266:G:C4'	2.39	0.53
24:BA:2690:C:C2'	24:BA:2691:C:OP2	2.56	0.53
24:BA:2675:A:H61	24:BA:2732:G:H1	1.53	0.53
24:BA:2868:A:C4	24:BA:2869:G:C8	2.97	0.53
24:BA:2870:C:H2'	24:BA:2871:C:O4'	2.09	0.53
24:BA:2882:A:H5''	38:BQ:98:LEU:HD21	1.91	0.53
24:BA:2808:U:N1	24:BA:2892:A:N6	2.57	0.53
24:BA:292:C:C2'	24:BA:293:U:C2	2.91	0.53
24:BA:307:G:N2	24:BA:310:A:O4'	2.42	0.53
24:BA:514:A:H2'	24:BA:515:A:H5'	1.91	0.53
24:BA:52:A:C4	24:BA:53:A:C8	2.97	0.53
24:BA:563:G:H2'	24:BA:563:G:N3	2.23	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:261:G:C4'	24:BA:608:A:H2	1.99	0.53
24:BA:648:G:C2'	24:BA:649:G:H8	2.21	0.53
24:BA:67:U:H2'	24:BA:68:G:H8	1.67	0.53
24:BA:730:C:O2	24:BA:730:C:H2'	2.06	0.53
24:BA:731:C:H2'	24:BA:732:C:O5'	2.09	0.53
24:BA:735:A:O5'	24:BA:735:A:C8	2.57	0.53
24:BA:848:G:N2	24:BA:931:G:N7	2.57	0.53
24:BA:874:G:C2	24:BA:904:C:N3	2.77	0.53
25:BB:113:C:H2'	25:BB:114:G:H8	1.74	0.53
25:BB:12:C:C4	47:BZ:74:ARG:O	2.62	0.53
25:BB:48:A:C2	25:BB:49:C:C2	2.96	0.53
25:BB:72:G:H5''	25:BB:73:A:OP1	2.09	0.53
27:BD:112:GLN:N	27:BD:115:GLN:HE22	2.03	0.53
27:BD:181:GLU:HA	27:BD:270:ILE:CB	2.39	0.53
27:BD:196:VAL:HG12	27:BD:198:ASN:N	2.24	0.53
27:BD:183:ARG:HG2	27:BD:268:ARG:CD	2.37	0.53
28:BE:176:ILE:CD1	28:BE:179:GLU:O	2.53	0.53
28:BE:4:ILE:HD12	28:BE:4:ILE:C	2.29	0.53
28:BE:47:VAL:CG2	28:BE:79:ARG:HB2	2.35	0.53
29:BF:19:GLU:C	29:BF:20:LEU:CD2	2.50	0.53
29:BF:37:VAL:O	29:BF:184:TYR:OH	2.27	0.53
30:BG:47:LYS:NZ	30:BG:73:ALA:HB3	2.23	0.53
31:BH:101:ARG:O	31:BH:116:GLU:HA	2.09	0.53
31:BH:105:LEU:CD2	31:BH:105:LEU:N	2.63	0.53
31:BH:85:LYS:NZ	31:BH:142:GLY:CA	2.72	0.53
35:BN:13:ASN:O	35:BN:14:THR:O	2.26	0.53
35:BN:63:VAL:CG1	35:BN:99:PHE:CZ	2.92	0.53
36:BO:122:PRO:CB	36:BO:138:LEU:CA	2.87	0.53
36:BO:29:LYS:CD	36:BO:29:LYS:N	2.71	0.53
36:BO:63:PRO:O	36:BO:65:ARG:HG3	2.09	0.53
37:BP:125:LEU:HB3	37:BP:126:PRO:HD3	1.91	0.53
37:BP:7:MET:O	37:BP:69:PHE:CE1	2.62	0.53
39:BR:28:VAL:HB	39:BR:101:LEU:HG	1.90	0.53
40:BS:2:ASN:OD1	40:BS:3:ARG:N	2.36	0.53
43:BV:104:THR:O	43:BV:104:THR:HG23	2.09	0.53
43:BV:36:LEU:CD2	43:BV:51:LEU:HD11	2.39	0.53
44:BW:50:LYS:HG3	44:BW:85:PRO:HD2	1.90	0.53
24:BA:1341:U:O2'	44:BW:56:THR:O	2.20	0.53
45:BX:7:VAL:HG22	45:BX:71:LYS:HG3	1.88	0.53
46:BY:163:LEU:HD12	46:BY:163:LEU:H	1.74	0.53
46:BY:168:GLU:OE1	46:BY:169:GLU:N	2.41	0.53
46:BY:62:PRO:O	46:BY:64:GLY:N	2.41	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:BZ:27:GLU:CA	47:BZ:69:PHE:CE1	2.92	0.53
32:BK:77:LEU:HD12	32:BK:142:VAL:HG22	1.89	0.53
32:BK:79:ILE:O	32:BK:144:VAL:HG23	2.08	0.53
24:BA:2165:G:C8	24:BA:2166:G:C8	2.97	0.53
26:BC:7:TYR:CZ	26:BC:11:LEU:HD13	2.44	0.53
26:BC:86:ALA:O	26:BC:89:ALA:HB3	2.09	0.53
26:BC:89:ALA:HB2	26:BC:154:ARG:HH11	1.72	0.53
24:BA:2186:G:N1	24:BA:2187:G:O6	2.42	0.53
24:BA:2155:G:H2'	24:BA:2156:G:O5'	2.09	0.53
1:AA:1053:G:N7	1:AA:1200:C:OP2	2.42	0.53
1:AA:112:G:N2	1:AA:113:G:N9	2.57	0.53
1:AA:1184:G:C2	1:AA:1185:G:C5	2.97	0.53
1:AA:1222:G:C2	1:AA:1223:C:N3	2.76	0.53
1:AA:1386:G:O2'	1:AA:1387:G:H5'	2.09	0.53
1:AA:1405:G:O4'	1:AA:1519:A:C4'	2.56	0.53
1:AA:1442:G:C6	1:AA:1446:A:C6	2.97	0.53
1:AA:1453:G:H2'	1:AA:1454:G:C5'	2.39	0.53
1:AA:151:A:N6	1:AA:152:A:H2	2.06	0.53
1:AA:166:G:C2	1:AA:167:G:C8	2.97	0.53
1:AA:300:A:C2'	1:AA:301:G:H5'	2.38	0.53
1:AA:335:C:H1'	1:AA:1434:A:H1'	1.91	0.53
1:AA:557:G:C3'	1:AA:558:G:C8	2.88	0.53
1:AA:566:G:C4'	1:AA:567:G:OP1	2.57	0.53
1:AA:745:C:H2'	1:AA:746:A:C8	2.44	0.53
1:AA:875:C:C2'	1:AA:876:G:O5'	2.56	0.53
1:AA:900:A:N7	1:AA:901:A:N7	2.56	0.53
3:AB:8:U:H3'	3:AB:13:C:H41	1.74	0.53
3:AB:62:C:H6	3:AB:62:C:O5'	1.92	0.53
3:AC:12:U:O5'	3:AC:12:U:H6	1.92	0.53
2:A1:40:U:C4	3:AC:37:A:N1	2.77	0.53
3:AC:5:G:H2'	3:AC:6:G:H8	1.74	0.53
4:AE:169:LYS:C	4:AE:171:ALA:N	2.62	0.53
4:AE:70:PHE:CA	4:AE:163:PHE:O	2.57	0.53
4:AE:80:ILE:HB	4:AE:208:ILE:HD11	1.89	0.53
5:AF:136:GLN:HA	5:AF:139:GLN:HB2	1.91	0.53
5:AF:46:GLU:HB3	5:AF:47:LEU:CD2	2.38	0.53
6:AG:173:TRP:CD1	6:AG:189:PRO:CB	2.91	0.53
2:A1:52:U:OP2	6:AG:50:ARG:HG3	2.09	0.53
6:AG:94:LEU:HA	6:AG:97:LEU:HD11	1.89	0.53
7:AH:149:GLU:O	7:AH:152:ARG:N	2.42	0.53
8:AI:79:LEU:HB2	8:AI:88:VAL:CG1	2.39	0.53
9:AJ:56:GLN:NE2	9:AJ:56:GLN:H	2.07	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AJ:77:SER:C	9:AJ:156:TRP:HZ2	2.13	0.53
10:AK:103:VAL:HG11	10:AK:109:ILE:N	2.24	0.53
19:AT:40:LYS:HB3	19:AT:42:TYR:HE1	1.73	0.53
19:AT:10:VAL:CG2	19:AT:55:ASP:O	2.49	0.53
19:AT:69:LYS:HZ2	19:AT:69:LYS:CB	2.22	0.53
19:AT:8:GLY:C	19:AT:56:VAL:HG13	2.29	0.53
8:AI:98:LEU:HD21	20:AU:28:GLU:HA	1.90	0.53
21:AV:11:VAL:HG12	21:AV:16:LEU:HD11	1.91	0.53
1:AA:1320:C:H5	21:AV:37:ARG:CZ	2.21	0.53
21:AV:47:HIS:H	21:AV:62:ILE:HG22	1.73	0.53
22:AW:54:LYS:O	22:AW:57:ARG:CB	2.56	0.53
48:B1:30:LEU:HD11	48:B1:48:LEU:CD2	2.39	0.53
49:B2:14:GLY:C	49:B2:15:TYR:CD1	2.83	0.53
50:B3:39:CYS:O	50:B3:40:HIS:CG	2.62	0.53
50:B3:58:ARG:HG2	50:B3:62:ARG:NH2	2.24	0.53
53:B6:5:TRP:CZ3	53:B6:12:ARG:NH1	2.77	0.53
53:B6:42:LEU:C	53:B6:44:PRO:CD	2.77	0.53
24:BA:1069:A:N1	24:BA:1096:A:OP1	2.41	0.53
24:BA:1256:G:C6	24:BA:1257:C:N4	2.77	0.53
24:BA:126:A:OP1	53:B6:17:GLY:CA	2.57	0.53
24:BA:149:A:C5	24:BA:150:C:C4	2.97	0.53
24:BA:1559:G:C6	24:BA:1560:G:C4'	2.91	0.53
24:BA:699:A:H1'	24:BA:1634:A:N7	2.24	0.53
24:BA:1944:U:C1'	24:BA:1955:U:H1'	2.38	0.53
24:BA:1678:G:H22	24:BA:1989:G:N2	2.05	0.53
24:BA:215:G:HO2'	24:BA:216:A:P	2.32	0.53
24:BA:2278:A:C6	24:BA:2279:G:N7	2.77	0.53
24:BA:2348:U:H2'	24:BA:2349:G:O5'	2.09	0.53
24:BA:2497:A:O2'	24:BA:2498:C:P	2.67	0.53
24:BA:2571:C:O2'	28:BE:146:THR:HG23	2.08	0.53
24:BA:270(J):G:C2	24:BA:270(K):C:C2	2.97	0.53
24:BA:2734:A:N7	24:BA:2735:G:C4	2.76	0.53
24:BA:2766:G:C2	24:BA:2767:C:C5	2.96	0.53
24:BA:2811:G:N2	24:BA:2891:G:H1'	2.24	0.53
24:BA:2841:C:C2	24:BA:2842:G:C8	2.97	0.53
24:BA:447:A:N1	24:BA:454:A:N7	2.57	0.53
24:BA:527:C:H2'	34:BM:114:ARG:NH1	2.23	0.53
24:BA:617:G:H2'	24:BA:618:G:C8	2.43	0.53
24:BA:648:G:N3	24:BA:649:G:N7	2.57	0.53
24:BA:822:U:OP2	24:BA:945:A:O3'	2.26	0.53
24:BA:937:U:H2'	24:BA:938:G:O4'	2.09	0.53
27:BD:168:ARG:HA	27:BD:174:ILE:CD1	2.39	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:176:ARG:HA	27:BD:181:GLU:O	2.09	0.53
27:BD:56:GLY:HA3	27:BD:214:TRP:HZ3	1.74	0.53
27:BD:72:LYS:CD	27:BD:75:ILE:HD12	2.38	0.53
28:BE:173:VAL:CG2	28:BE:183:LEU:O	2.54	0.53
28:BE:13:ARG:NE	28:BE:20:ALA:C	2.62	0.53
28:BE:47:VAL:CA	28:BE:48:GLN:NE2	2.71	0.53
28:BE:5:LEU:C	28:BE:5:LEU:CD2	2.77	0.53
29:BF:176:LEU:C	29:BF:178:PRO:CD	2.77	0.53
30:BG:125:PHE:CE2	30:BG:127:GLY:C	2.82	0.53
30:BG:99:MET:O	30:BG:102:PHE:CB	2.57	0.53
31:BH:137:ASP:HB3	31:BH:140:LYS:CD	2.39	0.53
33:BL:23:VAL:HG12	33:BL:34:ILE:CA	2.34	0.53
33:BL:72:PRO:HD2	33:BL:111:LYS:HE3	1.91	0.53
34:BM:122:VAL:CG2	34:BM:123:TYR:N	2.71	0.53
34:BM:23:LEU:HD23	34:BM:60:ILE:HG21	1.90	0.53
34:BM:69:GLN:N	34:BM:70:LYS:HE2	2.24	0.53
34:BM:93:THR:C	34:BM:94:HIS:CD2	2.81	0.53
35:BN:103:ALA:O	35:BN:105:GLU:N	2.42	0.53
35:BN:121:VAL:O	35:BN:122:LEU:CB	2.56	0.53
35:BN:70:LYS:HB3	35:BN:107:ARG:HH12	1.73	0.53
36:BO:65:ARG:NH1	36:BO:68:GLN:CD	2.62	0.53
37:BP:25:ASP:HB3	37:BP:102:VAL:CG1	2.35	0.53
38:BQ:73:VAL:HB	38:BQ:77:ARG:CZ	2.39	0.53
42:BU:6:LYS:N	42:BU:12:TYR:HB3	2.24	0.53
43:BV:38:TYR:HD2	51:B4:39:MET:CE	2.21	0.53
24:BA:1599:C:OP2	44:BW:36:LYS:NZ	2.41	0.53
44:BW:7:VAL:HB	48:B1:28:MET:CG	2.38	0.53
37:BP:137:TYR:HE2	46:BY:124:ILE:HD12	1.72	0.53
47:BZ:21:LEU:HG	47:BZ:22:GLY:N	2.17	0.53
24:BA:2132:U:O2	24:BA:2134:A:C5	2.62	0.53
26:BC:7:TYR:OH	26:BC:14:VAL:HG21	2.08	0.53
1:AA:1150:U:H2'	1:AA:1151:A:C8	2.44	0.53
1:AA:1189:C:OP1	5:AF:5:ILE:HG21	2.09	0.53
1:AA:1201:A:HO2'	1:AA:1202:G:H5''	1.73	0.53
1:AA:1223:C:O5'	1:AA:1224:G:H5''	2.08	0.53
1:AA:1430:C:C2	1:AA:1471:G:N2	2.77	0.53
1:AA:68:G:H5'	1:AA:171:A:O2'	2.08	0.53
1:AA:241:C:C2'	1:AA:242:C:O5'	2.57	0.53
1:AA:269:C:H2'	1:AA:270:A:C8	2.43	0.53
1:AA:281:G:O2'	1:AA:282:A:H8	1.92	0.53
1:AA:382:A:C2'	1:AA:383:A:O5'	2.57	0.53
1:AA:574:A:O3'	1:AA:575:G:H4'	2.06	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:739:C:H2'	1:AA:740:U:C5'	2.40	0.53
1:AA:754:C:O2	1:AA:755:G:H5'	2.08	0.53
1:AA:765:G:O5'	1:AA:765:G:H8	1.92	0.53
1:AA:867:G:N2	1:AA:868:C:C2	2.77	0.53
1:AA:955:U:N3	1:AA:956:U:C5	2.77	0.53
1:AA:980:C:H3'	1:AA:981:U:C5	2.44	0.53
3:AC:75:C:C2'	3:AC:76:A:O3'	2.56	0.53
4:AE:103:THR:O	4:AE:104:ASN:CB	2.57	0.53
5:AF:140:ARG:HB3	5:AF:140:ARG:CZ	2.38	0.53
5:AF:179:ARG:O	5:AF:179:ARG:HG2	2.08	0.53
6:AG:126:ILE:HG21	6:AG:133:VAL:O	2.08	0.53
6:AG:128:VAL:HA	6:AG:146:ILE:CG2	2.39	0.53
7:AH:9:LYS:HD2	7:AH:111:GLU:OE1	2.09	0.53
7:AH:90:VAL:O	7:AH:120:THR:OG1	2.16	0.53
7:AH:95:ALA:O	7:AH:96:PRO:O	2.28	0.53
10:AK:18:ARG:H	10:AK:18:ARG:CD	2.21	0.53
10:AK:62:TYR:O	10:AK:63:LEU:O	2.26	0.53
11:AL:15:ALA:HB3	11:AL:76:ALA:HB3	1.88	0.53
11:AL:7:THR:O	11:AL:83:ARG:CZ	2.56	0.53
1:AA:1151:A:OP1	12:AM:41:PRO:CA	2.55	0.53
12:AM:31:GLY:HA2	12:AM:81:THR:OG1	2.08	0.53
12:AM:23:ILE:CD1	12:AM:85:LEU:HB3	2.39	0.53
13:AN:59:TYR:O	13:AN:60:ALA:C	2.47	0.53
14:AO:12:ARG:HH11	14:AO:12:ARG:HB3	1.73	0.53
14:AO:28:LYS:CE	14:AO:33:ARG:HH22	2.22	0.53
17:AR:35:ARG:HB3	17:AR:35:ARG:CZ	2.37	0.53
18:AS:81:ARG:HG2	18:AS:83:GLU:HG2	1.90	0.53
19:AT:5:VAL:HA	19:AT:59:ILE:O	2.09	0.53
20:AU:36:ASN:C	20:AU:40:LEU:HG	2.26	0.53
20:AU:68:LYS:O	20:AU:72:ARG:HG3	2.08	0.53
21:AV:42:PRO:O	21:AV:44:MET:N	2.42	0.53
21:AV:64:GLU:HG2	21:AV:65:ASN:N	2.23	0.53
23:AX:6:ARG:HG3	23:AX:7:ARG:N	2.24	0.53
24:BA:61:G:H5'	48:B1:45:ILE:CG1	2.39	0.53
24:BA:1065:U:H2'	24:BA:1066:U:C5'	2.39	0.53
24:BA:1199:U:C2	24:BA:1200:C:C6	2.96	0.53
24:BA:1612:C:H2'	53:B6:3:ARG:NH2	2.24	0.53
24:BA:1633:G:N7	24:BA:1635:G:N1	2.55	0.53
24:BA:1299:G:N2	24:BA:1640:C:OP2	2.39	0.53
24:BA:173:G:H21	24:BA:174:C:C1'	2.19	0.53
24:BA:1746:G:H2'	24:BA:1747:G:O4'	2.10	0.53
24:BA:1839:G:N7	24:BA:1927:A:N3	2.56	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1919:A:OP2	24:BA:1919:A:C8	2.62	0.53
24:BA:1980:G:C2'	24:BA:1981:A:H5''	2.39	0.53
24:BA:1991:U:H2'	24:BA:1992:G:OP2	2.09	0.53
24:BA:1993:U:C6	24:BA:1993:U:C3'	2.92	0.53
24:BA:2239:G:H3'	24:BA:2240:C:C5'	2.17	0.53
24:BA:241:A:C8	24:BA:243:U:C2	2.97	0.53
3:AB:63:G:H1'	24:BA:2482:G:H4'	1.91	0.53
24:BA:2521:C:H2'	24:BA:2522:U:O5'	2.09	0.53
24:BA:2538:C:H2'	24:BA:2539:C:C5	2.43	0.53
24:BA:2546:U:O4'	24:BA:2565:A:H2	1.92	0.53
24:BA:2505:G:O6	24:BA:2576:G:N9	2.42	0.53
24:BA:2768:C:C2	24:BA:2769:C:C6	2.97	0.53
24:BA:278:A:H2'	24:BA:279:C:C2	2.44	0.53
24:BA:2809:A:H4'	24:BA:2811:G:N7	2.23	0.53
24:BA:2815:C:O2'	51:B4:42:PRO:CG	2.57	0.53
24:BA:322:A:O2'	24:BA:340:A:C5	2.62	0.53
24:BA:350:U:OP2	24:BA:350:U:C6	2.61	0.53
24:BA:410:G:C6	24:BA:411:G:O6	2.62	0.53
24:BA:449:A:O2'	29:BF:52:LYS:NZ	2.37	0.53
24:BA:47:C:O5'	24:BA:47:C:C6	2.55	0.53
24:BA:526:A:OP1	24:BA:527:C:OP2	2.27	0.53
24:BA:48:G:H4'	24:BA:52:A:O4'	2.09	0.53
24:BA:532:A:C4'	24:BA:532:A:OP1	2.57	0.53
24:BA:601:C:O4'	29:BF:104:LYS:NZ	2.40	0.53
24:BA:721:C:H2'	24:BA:722:A:H8	1.73	0.53
24:BA:733:G:C6	24:BA:761:A:C4	2.97	0.53
24:BA:858:U:H3'	24:BA:859:G:N3	2.23	0.53
24:BA:847:U:N3	24:BA:933:A:C2	2.65	0.53
24:BA:988:A:OP1	49:B2:10:LYS:CD	2.56	0.53
25:BB:117:G:N3	25:BB:118:G:C8	2.77	0.53
25:BB:33:G:N2	25:BB:34:U:C2	2.77	0.53
27:BD:130:ALA:O	27:BD:131:LEU:CD1	2.55	0.53
27:BD:5:LYS:CE	27:BD:31:LYS:NZ	2.72	0.53
24:BA:1568:G:OP2	27:BD:61:LEU:HD12	2.09	0.53
28:BE:151:TYR:OH	28:BE:152:LYS:HG3	2.08	0.53
29:BF:158:THR:HG22	29:BF:160:ASN:H	1.74	0.53
24:BA:450:G:P	29:BF:52:LYS:HD3	2.49	0.53
30:BG:162:THR:C	30:BG:164:GLU:N	2.61	0.53
24:BA:2305:A:C6	30:BG:42:GLY:HA2	2.43	0.53
30:BG:77:ILE:HB	30:BG:83:ARG:HH11	1.73	0.53
31:BH:103:LEU:O	31:BH:104:GLU:O	2.26	0.53
31:BH:102:ALA:CA	31:BH:115:VAL:HG12	2.38	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:BH:67:LEU:O	31:BH:68:THR:C	2.46	0.53
24:BA:1058:G:O2'	33:BL:116:ASN:HB3	2.09	0.53
33:BL:79:ARG:NH1	33:BL:87:GLY:N	2.56	0.53
35:BN:12:ASP:OD1	35:BN:12:ASP:N	2.42	0.53
36:BO:126:VAL:CB	36:BO:146:VAL:H	2.22	0.53
36:BO:90:ARG:N	36:BO:125:VAL:HG22	2.24	0.53
37:BP:35:VAL:CG2	37:BP:101:ARG:O	2.53	0.53
37:BP:42:ILE:O	37:BP:94:VAL:CG2	2.57	0.53
37:BP:45:GLN:CA	37:BP:48:GLU:HG2	2.39	0.53
37:BP:66:ILE:O	37:BP:67:ARG:CB	2.57	0.53
38:BQ:75:LEU:HD23	38:BQ:78:LYS:HG2	1.91	0.53
38:BQ:98:LEU:HD23	38:BQ:99:LYS:HZ1	1.71	0.53
38:BQ:98:LEU:CD2	38:BQ:99:LYS:HZ2	2.21	0.53
39:BR:28:VAL:CG1	39:BR:90:GLY:HA2	2.39	0.53
24:BA:2845:G:OP1	40:BS:57:PHE:O	2.27	0.53
24:BA:445:C:OP1	41:BT:2:PRO:HB2	2.09	0.53
41:BT:53:ARG:O	41:BT:57:PHE:HD1	1.92	0.53
46:BY:77:ASP:OD1	46:BY:78:LYS:HG2	2.09	0.53
24:BA:2126:A:H4'	24:BA:2127:G:O5'	2.08	0.53
24:BA:2166:G:C2	24:BA:2172:U:O4	2.62	0.53
14:AO:126:LYS:CA	14:AO:126:LYS:HE3	2.39	0.53
24:BA:1582:C:H3'	24:BA:1583:A:O4'	2.09	0.53
24:BA:2191:G:N2	24:BA:2192:G:H1'	2.24	0.53
2:A1:33:U:H2'	2:A1:34:U:C5	2.44	0.52
1:AA:1002:G:N2	1:AA:1039:C:N4	2.58	0.52
1:AA:1026:G:H2'	1:AA:1027:C:C5'	2.38	0.52
1:AA:1039:C:C4	1:AA:1040:U:C5	2.96	0.52
1:AA:1073:U:O2'	1:AA:1074:G:C5'	2.57	0.52
1:AA:112:G:C2'	1:AA:113:G:H5'	2.39	0.52
1:AA:1188:A:C8	1:AA:1188:A:OP2	2.62	0.52
1:AA:1202:G:N7	12:AM:53:PRO:CB	2.72	0.52
1:AA:1237:C:O4'	1:AA:1334:G:N2	2.42	0.52
1:AA:250:A:N3	1:AA:252:U:C2	2.77	0.52
1:AA:267:C:OP2	19:AT:67:LYS:NZ	2.34	0.52
1:AA:57:G:N2	1:AA:388:G:N7	2.58	0.52
1:AA:559:A:C8	1:AA:561:U:C5	2.96	0.52
1:AA:583:A:H2'	1:AA:584:G:C8	2.44	0.52
1:AA:585:G:H2'	1:AA:586:C:H6	1.74	0.52
1:AA:817:C:H2'	1:AA:817:C:O2	2.09	0.52
1:AA:86:U:OP2	1:AA:87:A:N1	2.42	0.52
1:AA:886:G:H2'	1:AA:887:G:C5'	2.39	0.52
1:AA:922:G:H2'	1:AA:923:A:O4'	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:76:A:C5	24:BA:2585:U:H1'	2.43	0.52
4:AE:173:ALA:HA	4:AE:176:GLU:CG	2.39	0.52
4:AE:102:LEU:O	4:AE:180:LEU:HD13	2.09	0.52
4:AE:50:GLU:CG	4:AE:200:ILE:O	2.42	0.52
4:AE:234:PRO:CA	4:AE:238:LEU:HD13	2.38	0.52
4:AE:82:ARG:CB	4:AE:94:ASN:HD21	2.22	0.52
5:AF:12:LEU:CD1	5:AF:18:TRP:CH2	2.92	0.52
5:AF:132:ARG:HB3	5:AF:136:GLN:HE22	1.73	0.52
5:AF:134:ILE:N	5:AF:134:ILE:HD12	2.22	0.52
5:AF:36:ASP:OD2	5:AF:57:ILE:HD12	2.08	0.52
1:AA:407:G:H1'	6:AG:119:GLN:OE1	2.08	0.52
6:AG:10:ARG:NH1	6:AG:11:LEU:HD23	2.23	0.52
6:AG:180:GLY:O	6:AG:181:MET:C	2.47	0.52
7:AH:115:VAL:CG2	7:AH:118:ILE:HD12	2.36	0.52
7:AH:110:LEU:HD22	7:AH:139:LEU:HD21	1.91	0.52
7:AH:151:LEU:HD11	10:AK:77:GLU:HB2	1.91	0.52
7:AH:80:ILE:N	7:AH:80:ILE:HD12	2.24	0.52
8:AI:45:LEU:HD23	8:AI:59:TYR:CA	2.39	0.52
9:AJ:153:HIS:CE1	13:AN:58:PRO:CG	2.93	0.52
4:AE:181:PHE:HE1	10:AK:72:PRO:HD2	1.73	0.52
11:AL:17:VAL:HA	11:AL:63:ILE:HG23	1.89	0.52
12:AM:44:VAL:HG22	12:AM:66:ARG:HD3	1.91	0.52
12:AM:8:LEU:CD1	12:AM:16:LEU:HA	2.39	0.52
13:AN:128:ALA:O	13:AN:129:SER:OXT	2.27	0.52
13:AN:63:LEU:O	13:AN:66:LEU:CB	2.56	0.52
1:AA:562:C:H2'	14:AO:15:ARG:HB3	1.91	0.52
1:AA:521:G:OP2	14:AO:54:LYS:NZ	2.38	0.52
14:AO:5:PRO:O	14:AO:6:THR:CB	2.57	0.52
15:AP:15:VAL:HG11	15:AP:34:LEU:CD2	2.39	0.52
15:AP:55:ARG:HH21	15:AP:56:LEU:CD2	2.17	0.52
15:AP:64:TRP:HD1	15:AP:65:LYS:H	1.55	0.52
16:AQ:27:CYS:C	16:AQ:40:CYS:SG	2.88	0.52
17:AR:69:TYR:O	17:AR:70:LEU:C	2.48	0.52
1:AA:720:C:H5''	20:AU:52:PRO:HB3	1.92	0.52
21:AV:32:LYS:CB	21:AV:50:ALA:HB3	2.39	0.52
22:AW:15:ARG:O	22:AW:16:HIS:C	2.47	0.52
22:AW:29:LYS:O	22:AW:32:ALA:N	2.42	0.52
23:AX:8:THR:HG22	23:AX:21:TYR:CE2	2.44	0.52
50:B3:24:THR:O	50:B3:25:TYR:HD2	1.91	0.52
38:BQ:100:LEU:O	51:B4:44:THR:CG2	2.57	0.52
36:BO:52:GLU:OE1	54:B7:52:LYS:HE2	2.09	0.52
24:BA:1006:C:O2'	34:BM:106:MET:CB	2.54	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1043:C:O2'	24:BA:1048:A:O2'	2.24	0.52
24:BA:1062:G:H2'	24:BA:1062:G:N3	2.24	0.52
24:BA:1082:U:O5'	24:BA:1082:U:H6	1.92	0.52
24:BA:1101:U:H2'	24:BA:1102:C:H6	1.73	0.52
24:BA:1028:A:N6	24:BA:1126:A:C8	2.73	0.52
24:BA:1520:U:C6	24:BA:1520:U:C3'	2.92	0.52
24:BA:1746:G:C6	24:BA:1747:G:C5	2.97	0.52
24:BA:1784:A:C4'	24:BA:1785:A:C8	2.92	0.52
24:BA:1818:U:C5	27:BD:156:ALA:HB3	2.42	0.52
24:BA:1818:U:OP1	27:BD:158:ALA:HA	2.08	0.52
24:BA:1913:A:N3	24:BA:1916:A:H2	2.07	0.52
24:BA:1949:G:C5	24:BA:1950:G:C8	2.96	0.52
24:BA:2095:C:H2'	24:BA:2096:U:O4'	2.08	0.52
24:BA:2196:C:H2'	24:BA:2196:C:O2	2.08	0.52
24:BA:2197:U:O2'	24:BA:2198:A:N3	2.37	0.52
24:BA:2232:U:H2'	24:BA:2233:U:C5'	2.39	0.52
24:BA:2244:U:C1'	24:BA:2434:A:C6	2.89	0.52
24:BA:244:A:C6	24:BA:245:G:H1'	2.44	0.52
24:BA:2468:G:H8	24:BA:2476:A:N1	2.06	0.52
24:BA:2505:G:O6	24:BA:2576:G:C8	2.63	0.52
24:BA:2657:A:N3	24:BA:2665:A:N3	2.57	0.52
24:BA:2740:A:C6	24:BA:2764:A:C4	2.97	0.52
24:BA:2893:G:O2'	24:BA:2894:G:O4'	2.17	0.52
24:BA:422:A:N3	24:BA:422:A:C2'	2.68	0.52
24:BA:511:U:C4	24:BA:512:G:H1'	2.45	0.52
24:BA:565:C:H5''	42:BU:82:ARG:HE	1.75	0.52
24:BA:600:G:H1'	29:BF:105:VAL:HG21	1.91	0.52
24:BA:64:A:O5'	24:BA:64:A:C8	2.60	0.52
24:BA:705:A:N7	24:BA:727:A:C8	2.77	0.52
24:BA:786:C:C5'	24:BA:1780:A:H8	2.20	0.52
24:BA:817:C:O2	24:BA:839:U:C5'	2.57	0.52
24:BA:869:G:C6	24:BA:909:A:N6	2.77	0.52
24:BA:910:A:O2'	24:BA:911:A:H5'	2.09	0.52
25:BB:28:C:C6	25:BB:28:C:O5'	2.57	0.52
25:BB:43:C:H2'	25:BB:44:G:H5''	1.91	0.52
27:BD:208:LYS:HZ3	27:BD:211:ARG:NH2	2.06	0.52
27:BD:219:PRO:C	27:BD:220:HIS:CG	2.83	0.52
27:BD:230:ASP:O	27:BD:232:PRO:N	2.41	0.52
29:BF:6:VAL:C	29:BF:18:ARG:HD2	2.30	0.52
29:BF:39:TRP:HZ3	29:BF:43:LYS:HD2	1.74	0.52
30:BG:147:ASP:O	30:BG:148:MET:CB	2.56	0.52
31:BH:164:TYR:HD2	31:BH:166:GLY:H	1.56	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BK:32:PRO:CG	32:BK:33:ARG:N	2.53	0.52
32:BK:9:LEU:HG	32:BK:17:GLN:CD	2.29	0.52
33:BL:75:SER:OG	33:BL:130:SER:HB2	2.09	0.52
33:BL:10:LEU:HD11	33:BL:41:PHE:CE1	2.44	0.52
34:BM:66:LYS:O	34:BM:67:LEU:O	2.27	0.52
34:BM:89:LYS:H	34:BM:89:LYS:HE3	1.63	0.52
35:BN:6:THR:CA	35:BN:7:TYR:HD1	2.21	0.52
36:BO:114:ILE:HB	36:BO:131:SER:H	1.73	0.52
36:BO:114:ILE:HG23	36:BO:122:PRO:O	2.09	0.52
36:BO:123:LEU:HB3	36:BO:130:PHE:CE1	2.44	0.52
36:BO:37:GLY:O	36:BO:40:SER:HB3	2.10	0.52
36:BO:8:PRO:O	36:BO:9:ASN:O	2.27	0.52
37:BP:35:VAL:HA	37:BP:101:ARG:O	2.09	0.52
38:BQ:69:ASP:C	38:BQ:70:LEU:HD23	2.29	0.52
39:BR:8:GLU:C	39:BR:10:ARG:N	2.59	0.52
40:BS:113:LYS:O	40:BS:114:LEU:O	2.27	0.52
40:BS:23:ARG:CZ	40:BS:88:ILE:O	2.57	0.52
40:BS:57:PHE:HA	40:BS:61:PHE:HD2	1.72	0.52
40:BS:28:VAL:HG13	40:BS:92:GLY:N	2.24	0.52
41:BT:105:VAL:O	41:BT:108:GLU:CD	2.47	0.52
24:BA:1151:G:C5'	41:BT:81:HIS:NE2	2.63	0.52
42:BU:67:GLY:C	42:BU:93:GLU:O	2.47	0.52
44:BW:5:TYR:O	44:BW:7:VAL:N	2.42	0.52
45:BX:13:VAL:HA	45:BX:73:ARG:NH1	2.23	0.52
45:BX:13:VAL:HG23	45:BX:14:LEU:N	2.24	0.52
46:BY:99:TYR:CD1	46:BY:126:VAL:HG23	2.44	0.52
46:BY:105:VAL:HB	46:BY:140:ASP:CG	2.30	0.52
46:BY:78:LYS:CE	46:BY:84:GLU:OE2	2.55	0.52
26:BC:116:THR:HG23	26:BC:149:ILE:HB	1.88	0.52
26:BC:131:LEU:O	26:BC:134:ARG:HB2	2.08	0.52
26:BC:134:ARG:HD3	26:BC:136:LEU:CD1	2.38	0.52
26:BC:52:ARG:CG	26:BC:53:ARG:HG3	2.38	0.52
1:AA:132:C:O2'	1:AA:133:U:O4'	2.26	0.52
1:AA:230:G:C2	1:AA:231:G:C4	2.98	0.52
1:AA:283:C:O2	1:AA:284:G:O4'	2.28	0.52
1:AA:29:G:H4'	1:AA:295:C:O3'	2.10	0.52
1:AA:36:C:O3'	14:AO:123:LYS:HA	2.09	0.52
1:AA:563:A:H1'	1:AA:566:G:C2'	2.39	0.52
1:AA:657:G:C6	1:AA:658:G:N7	2.76	0.52
1:AA:675:A:N1	1:AA:716:A:C2	2.77	0.52
1:AA:775:G:N3	1:AA:776:G:C8	2.77	0.52
1:AA:80:G:C2	1:AA:81:G:H1'	2.44	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:889:A:OP1	1:AA:891:U:H1'	2.09	0.52
3:AB:55:U:OP1	46:BY:178:GLU:OE2	2.26	0.52
3:AC:16:U:H6	3:AC:16:U:O5'	1.91	0.52
3:AC:24:G:C4	3:AC:25:C:C5	2.98	0.52
3:AC:76:A:C3'	3:AC:76:A:C8	2.93	0.52
4:AE:142:LEU:O	4:AE:143:GLU:C	2.47	0.52
4:AE:186:ALA:O	4:AE:201:ILE:HD13	2.09	0.52
4:AE:208:ILE:HD12	4:AE:239:VAL:HG11	1.90	0.52
4:AE:61:LEU:HD23	4:AE:62:ALA:H	1.72	0.52
5:AF:14:ILE:CG2	5:AF:179:ARG:HA	2.30	0.52
6:AG:187:ARG:O	6:AG:188:LEU:C	2.48	0.52
6:AG:30:LYS:CA	6:AG:34:GLU:HB3	2.39	0.52
7:AH:56:GLN:CD	7:AH:56:GLN:H	2.12	0.52
7:AH:60:TYR:HD1	7:AH:64:ARG:HD2	1.73	0.52
11:AL:79:LEU:HD22	11:AL:101:PHE:HD2	1.74	0.52
11:AL:50:LEU:HD23	11:AL:50:LEU:C	2.29	0.52
11:AL:50:LEU:CD2	11:AL:51:ARG:NH1	2.72	0.52
12:AM:24:VAL:O	12:AM:28:ARG:HG3	2.09	0.52
15:AP:22:ILE:HB	15:AP:25:ILE:HD11	1.90	0.52
19:AT:29:HIS:CG	19:AT:30:PRO:HD2	2.45	0.52
19:AT:65:ILE:O	19:AT:69:LYS:O	2.27	0.52
20:AU:61:LYS:HB3	20:AU:62:GLU:OE1	2.09	0.52
21:AV:15:LEU:HD12	21:AV:44:MET:CE	2.39	0.52
22:AW:33:ILE:HD11	22:AW:62:LEU:O	2.10	0.52
24:BA:1363:C:H42	50:B3:2:LYS:HE2	1.63	0.52
51:B4:21:SER:C	51:B4:23:HIS:N	2.59	0.52
43:BV:19:LEU:CB	51:B4:25:LEU:HD13	2.14	0.52
53:B6:11:LYS:HD2	53:B6:15:THR:HG23	1.90	0.52
54:B7:27:THR:H	54:B7:44:LYS:HZ1	1.56	0.52
24:BA:1023:U:C2	24:BA:1024:G:H4'	2.44	0.52
24:BA:1044:G:H22	24:BA:1111:A:H4'	1.69	0.52
24:BA:1137:G:C5	24:BA:1138:G:H1'	2.45	0.52
24:BA:1013:C:P	24:BA:1142:U:O2	2.67	0.52
24:BA:1194:A:C6	24:BA:1195:G:N7	2.78	0.52
24:BA:1250:G:C4'	41:BT:6:THR:HG21	2.39	0.52
24:BA:1466:G:HO2'	24:BA:1547:C:N4	2.08	0.52
24:BA:1524:G:C5	24:BA:1525:G:N7	2.77	0.52
24:BA:1753:G:C8	24:BA:1753:G:H3'	2.43	0.52
24:BA:1789:A:C8	24:BA:1790:C:C5	2.97	0.52
24:BA:1812:A:C4	24:BA:1813:G:C8	2.97	0.52
24:BA:1819:A:O2'	24:BA:1820:U:H5'	2.09	0.52
24:BA:1861:G:H2'	24:BA:1862:G:C5'	2.39	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1889:A:N1	24:BA:1890:A:C6	2.78	0.52
24:BA:1944:U:H1'	24:BA:1955:U:H1'	1.90	0.52
1:AA:1418:A:C2	24:BA:1959:G:H1'	2.43	0.52
24:BA:2095:C:O2'	24:BA:2096:U:H5'	2.08	0.52
24:BA:2226:C:C2	27:BD:262:ARG:NH2	2.77	0.52
24:BA:2259:G:H5'	24:BA:2427:C:C3'	2.38	0.52
24:BA:2305:A:C3'	24:BA:2306:C:H5''	2.39	0.52
24:BA:2311:A:H2	30:BG:45:GLU:CG	2.22	0.52
24:BA:2312:U:C2	24:BA:2313:C:C5	2.97	0.52
24:BA:2406:U:OP2	24:BA:2411:A:N6	2.34	0.52
24:BA:2413:G:H2'	24:BA:2414:G:O4'	2.09	0.52
24:BA:2431:U:O2'	24:BA:2432:A:H8	1.92	0.52
24:BA:2459:A:N3	24:BA:2460:U:C2'	2.72	0.52
24:BA:247:G:H1	54:B7:11:LYS:NZ	2.07	0.52
24:BA:2497:A:H1'	24:BA:2498:C:C4	2.44	0.52
24:BA:2588:G:N1	24:BA:2607:G:C6	2.77	0.52
24:BA:2649:U:O2'	24:BA:2650:U:H5'	2.08	0.52
24:BA:2717:G:O2'	24:BA:2718:G:O5'	2.16	0.52
24:BA:2718:G:C6	24:BA:2719:G:C5	2.97	0.52
24:BA:2753:A:N3	24:BA:2753:A:H2'	2.25	0.52
24:BA:2771:C:C2	24:BA:2772:C:C5	2.97	0.52
24:BA:2773:C:H2'	24:BA:2774:C:C6	2.44	0.52
24:BA:2815:C:H4'	51:B4:42:PRO:CG	2.36	0.52
24:BA:506:G:C2'	24:BA:507:A:OP2	2.57	0.52
24:BA:556:G:C2'	24:BA:557:U:O5'	2.57	0.52
24:BA:563:G:N2	24:BA:564:C:N3	2.57	0.52
24:BA:595:C:C2	24:BA:596:G:C8	2.98	0.52
24:BA:602:G:O2'	24:BA:603:A:OP2	2.24	0.52
24:BA:712:G:C4	24:BA:713:G:C8	2.97	0.52
24:BA:818:G:C2'	24:BA:819:A:H5''	2.39	0.52
24:BA:837:C:O2'	24:BA:838:C:H5'	2.08	0.52
24:BA:880:G:H2'	24:BA:881:G:O4'	2.09	0.52
24:BA:886:C:H5''	24:BA:887:A:H5'	1.91	0.52
24:BA:954:G:C2'	24:BA:955:C:H5'	2.39	0.52
25:BB:65:C:C2	25:BB:108:C:N4	2.77	0.52
27:BD:106:ILE:HG13	27:BD:108:PRO:CD	2.37	0.52
27:BD:208:LYS:O	27:BD:211:ARG:HB2	2.09	0.52
28:BE:176:ILE:HD13	28:BE:176:ILE:O	2.08	0.52
28:BE:185:LYS:O	28:BE:185:LYS:HD3	2.09	0.52
28:BE:109:LYS:H	28:BE:191:PRO:HD3	1.74	0.52
28:BE:36:ARG:HB3	28:BE:41:LYS:CB	2.38	0.52
28:BE:4:ILE:O	28:BE:4:ILE:CG1	2.55	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2787:C:O2'	28:BE:61:ARG:NH2	2.42	0.52
24:BA:320:A:H3'	29:BF:136:THR:OG1	2.09	0.52
29:BF:53:THR:C	29:BF:55:GLY:H	2.12	0.52
30:BG:148:MET:HB3	30:BG:151:ALA:CB	2.39	0.52
30:BG:19:LEU:HA	30:BG:22:ARG:CG	2.38	0.52
33:BL:112:MET:SD	33:BL:115:LEU:CD1	2.97	0.52
33:BL:65:PHE:CD1	33:BL:65:PHE:O	2.62	0.52
35:BN:2:ILE:HB	35:BN:32:TYR:HA	1.91	0.52
24:BA:2415:G:C5'	36:BO:61:ARG:HD2	2.37	0.52
36:BO:72:PRO:O	36:BO:111:ARG:CB	2.56	0.52
37:BP:44:ALA:N	37:BP:94:VAL:HB	2.24	0.52
38:BQ:25:ALA:CA	38:BQ:48:VAL:HG22	2.39	0.52
38:BQ:57:ARG:HE	38:BQ:62:ALA:CB	2.17	0.52
38:BQ:26:LYS:HE2	38:BQ:70:LEU:CB	2.39	0.52
39:BR:26:LEU:HD21	39:BR:37:ALA:C	2.30	0.52
39:BR:13:ARG:NH2	39:BR:90:GLY:O	2.43	0.52
35:BN:106:LEU:HD21	40:BS:38:ASN:ND2	2.25	0.52
40:BS:30:VAL:O	40:BS:49:VAL:HA	2.09	0.52
42:BU:59:ALA:O	42:BU:60:GLU:OE2	2.26	0.52
42:BU:79:VAL:CB	42:BU:81:TYR:HD1	2.23	0.52
24:BA:1266:G:O4'	43:BV:15:ARG:NH2	2.43	0.52
45:BX:98:VAL:O	45:BX:99:CYS:C	2.47	0.52
46:BY:149:SER:OG	46:BY:173:ALA:HB2	2.10	0.52
46:BY:43:GLU:N	46:BY:43:GLU:CD	2.51	0.52
47:BZ:40:GLN:O	47:BZ:57:PHE:HB3	2.09	0.52
32:BK:111:PRO:O	32:BK:114:LEU:HG	2.09	0.52
24:BA:2136:C:H2'	24:BA:2137:C:O4'	2.09	0.52
26:BC:78:ALA:C	26:BC:79:LYS:HG3	2.30	0.52
26:BC:97:GLU:HG2	26:BC:122:ALA:CB	2.34	0.52
14:AO:43:VAL:CG1	14:AO:44:THR:N	2.72	0.52
2:A1:37:U:H6	2:A1:37:U:O5'	1.93	0.52
1:AA:1005:A:C6	1:AA:1026:G:N2	2.76	0.52
1:AA:1056:U:H5'	5:AF:163:ALA:HB3	1.90	0.52
1:AA:1113:C:C2	1:AA:1114:C:C5	2.97	0.52
1:AA:1157:A:C6	1:AA:1180:A:C5	2.97	0.52
1:AA:1215:G:N2	1:AA:1216:G:C8	2.78	0.52
1:AA:1238:A:N7	1:AA:1301:U:O4	2.41	0.52
1:AA:1251:A:N6	1:AA:1285:A:H2	2.06	0.52
1:AA:1252:A:C5	1:AA:1253:G:C8	2.98	0.52
1:AA:1263:C:O2'	1:AA:1264:C:H5'	2.09	0.52
1:AA:1321:C:C6	1:AA:1321:C:H3'	2.44	0.52
1:AA:976:G:C2	1:AA:1362:C:C2	2.96	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1376:U:C2	1:AA:1377:A:N7	2.77	0.52
1:AA:14:U:C6	1:AA:16:A:OP2	2.62	0.52
1:AA:1520:G:O2'	1:AA:1521:G:H8	1.92	0.52
1:AA:250:A:N3	1:AA:252:U:N3	2.57	0.52
1:AA:320:C:O2'	1:AA:321:A:H5'	2.10	0.52
1:AA:386:C:C4	1:AA:387:U:C5	2.98	0.52
1:AA:620:C:C6	1:AA:621:A:C8	2.98	0.52
1:AA:657:G:O2'	1:AA:658:G:H5'	2.09	0.52
1:AA:671:G:C2	1:AA:672:U:C2	2.98	0.52
1:AA:857:C:C2	1:AA:858:G:C1'	2.92	0.52
1:AA:899:C:H2'	1:AA:900:A:O4'	2.09	0.52
1:AA:944:G:H2'	1:AA:945:G:H5''	1.89	0.52
1:AA:960:U:N3	1:AA:1225:A:C5	2.75	0.52
3:AB:26:A:OP1	3:AB:27:G:OP2	2.27	0.52
3:AC:11:C:C2	3:AC:12:U:C5	2.97	0.52
4:AE:166:ASP:O	4:AE:169:LYS:HD3	2.09	0.52
4:AE:35:GLU:O	4:AE:36:ARG:NH2	2.43	0.52
4:AE:42:ILE:HG23	4:AE:43:ASP:N	2.24	0.52
5:AF:177:THR:O	5:AF:179:ARG:N	2.42	0.52
5:AF:52:LEU:CA	5:AF:70:VAL:HG22	2.27	0.52
6:AG:170:VAL:H	6:AG:176:LEU:CD2	2.16	0.52
7:AH:20:GLN:CD	7:AH:21:ALA:N	2.62	0.52
1:AA:923:A:OP1	7:AH:21:ALA:CB	2.55	0.52
9:AJ:56:GLN:CD	9:AJ:56:GLN:H	2.12	0.52
11:AL:7:THR:O	11:AL:83:ARG:NH1	2.42	0.52
12:AM:89:ASP:C	12:AM:90:LEU:HG	2.29	0.52
13:AN:29:ILE:O	13:AN:29:ILE:HG13	2.10	0.52
14:AO:69:TYR:O	14:AO:100:ILE:CD1	2.57	0.52
14:AO:82:VAL:O	14:AO:83:VAL:HB	2.09	0.52
14:AO:90:VAL:O	14:AO:90:VAL:HG12	2.10	0.52
1:AA:952:U:H1'	15:AP:126:LYS:O	2.09	0.52
15:AP:27:LYS:O	15:AP:29:ARG:N	2.39	0.52
15:AP:87:TYR:C	15:AP:87:TYR:CD2	2.81	0.52
17:AR:26:GLU:CA	17:AR:26:GLU:OE2	2.56	0.52
17:AR:64:ARG:O	17:AR:67:LEU:HB2	2.09	0.52
17:AR:79:ARG:HG2	17:AR:82:ILE:HD12	1.91	0.52
18:AS:14:ASN:HA	18:AS:42:ARG:NH2	2.25	0.52
19:AT:20:THR:C	19:AT:21:VAL:HG13	2.30	0.52
19:AT:66:SER:HB3	19:AT:69:LYS:HB3	1.91	0.52
21:AV:44:MET:O	21:AV:62:ILE:HG21	2.08	0.52
48:B1:54:ARG:O	48:B1:57:THR:N	2.42	0.52
49:B2:19:GLN:HE22	49:B2:50:VAL:HA	1.73	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:B3:20:ASN:HB2	50:B3:30:GLU:CG	2.39	0.52
50:B3:21:VAL:O	50:B3:22:ILE:HB	2.09	0.52
24:BA:397:G:OP1	50:B3:40:HIS:C	2.48	0.52
52:B5:38:LYS:HD3	52:B5:38:LYS:C	2.30	0.52
52:B5:50:ARG:CZ	52:B5:52:VAL:CG2	2.83	0.52
54:B7:20:GLY:C	54:B7:21:LYS:HG3	2.29	0.52
24:BA:1085:A:O2'	24:BA:1086:A:P	2.68	0.52
24:BA:1142(A):A:N3	24:BA:1143:A:H5''	2.24	0.52
24:BA:1227:A:C8	24:BA:1228:G:H5''	2.45	0.52
24:BA:1227:A:H3'	24:BA:1228:G:H5''	1.92	0.52
24:BA:1242:A:H3'	24:BA:1243:G:C8	2.45	0.52
24:BA:1243:G:C2	24:BA:1244:G:C4	2.98	0.52
24:BA:1326:U:O2	24:BA:1326:U:H2'	2.09	0.52
24:BA:1315:C:O2	24:BA:1392:A:C2	2.62	0.52
24:BA:1449(A):G:C6	24:BA:1450:C:N4	2.78	0.52
24:BA:1451:C:H2'	24:BA:1457:A:C6	2.43	0.52
24:BA:1472:A:N7	24:BA:1474:C:N4	2.56	0.52
24:BA:1608:A:C4'	24:BA:1609:A:OP1	2.56	0.52
24:BA:1655:A:C3'	24:BA:1656:C:H6	2.22	0.52
24:BA:1670:C:O2'	24:BA:1671:U:H5'	2.09	0.52
24:BA:1672:C:C2'	24:BA:1673:U:H5''	2.38	0.52
24:BA:1712:C:C2'	24:BA:1716:U:H6	2.22	0.52
24:BA:1832:C:H2'	24:BA:1833:U:C5'	2.37	0.52
24:BA:2004:G:C8	24:BA:2005:A:C8	2.97	0.52
24:BA:2057:A:H2'	24:BA:2058:A:C8	2.38	0.52
24:BA:2069:G:O2'	24:BA:2070:G:H5'	2.10	0.52
24:BA:2078:C:H2'	24:BA:2079:U:C6	2.44	0.52
24:BA:2205:C:H2'	24:BA:2206:C:H6	1.74	0.52
24:BA:2311:A:C2	30:BG:45:GLU:CD	2.82	0.52
24:BA:2376:A:C2	24:BA:2377:A:H1'	2.44	0.52
24:BA:2468:G:O2'	24:BA:2469:A:H8	1.93	0.52
24:BA:2481:G:HO2'	24:BA:2482:G:H8	1.57	0.52
24:BA:253:C:O2'	24:BA:254:G:H5'	2.09	0.52
24:BA:265:A:C6	24:BA:428:A:N7	2.76	0.52
24:BA:2688:U:O2'	24:BA:2689:U:OP2	2.25	0.52
24:BA:1462:C:H4'	24:BA:2703:C:OP1	2.10	0.52
24:BA:2720:U:H3'	24:BA:2721:A:H8	1.73	0.52
24:BA:278:A:N7	24:BA:359:A:C2	2.77	0.52
24:BA:2821:A:H3'	24:BA:2821:A:P	2.49	0.52
24:BA:2833:G:OP1	24:BA:2833:G:O4'	2.28	0.52
24:BA:2849:U:C2'	24:BA:2850:A:OP2	2.57	0.52
24:BA:306:U:O4	24:BA:310:A:N7	2.43	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:360:G:H2'	24:BA:361:G:C4'	2.38	0.52
24:BA:428:A:H5'	24:BA:429:A:OP2	2.09	0.52
24:BA:464:U:N3	24:BA:465:G:C6	2.78	0.52
24:BA:502:A:C3'	24:BA:502:A:C8	2.92	0.52
24:BA:636:G:C4'	24:BA:638:G:O2'	2.56	0.52
24:BA:629:G:H5'	24:BA:649:G:H21	1.75	0.52
24:BA:5:A:C4	24:BA:6:A:C8	2.97	0.52
24:BA:714:U:C2'	24:BA:715:G:C8	2.88	0.52
24:BA:788:A:H4'	24:BA:789:A:O5'	2.09	0.52
24:BA:942:G:H1'	24:BA:1189:A:C2	2.44	0.52
24:BA:945:A:C2'	24:BA:946:G:O5'	2.56	0.52
25:BB:104:A:O2'	46:BY:29:TYR:OH	2.19	0.52
25:BB:11:C:H3'	47:BZ:74:ARG:NH1	2.24	0.52
25:BB:24:G:O5'	25:BB:24:G:C8	2.62	0.52
25:BB:32:C:C2'	25:BB:33:G:H8	2.22	0.52
27:BD:144:ALA:O	27:BD:145:VAL:O	2.27	0.52
27:BD:223:GLY:C	27:BD:225:ALA:H	2.13	0.52
27:BD:33:LEU:HD12	27:BD:61:LEU:HD21	1.91	0.52
27:BD:79:VAL:HB	27:BD:114:GLY:H	1.73	0.52
28:BE:152:LYS:HE2	34:BM:77:GLY:O	2.08	0.52
28:BE:49:LEU:CD1	28:BE:50:GLY:N	2.73	0.52
28:BE:27:LEU:CD1	28:BE:76:ARG:HH12	2.21	0.52
29:BF:153:SER:OG	29:BF:190:GLU:CG	2.56	0.52
29:BF:157:VAL:O	29:BF:158:THR:HB	2.07	0.52
29:BF:80:ALA:HB3	29:BF:83:PHE:CE2	2.44	0.52
30:BG:114:ILE:O	30:BG:117:PHE:HB2	2.09	0.52
30:BG:26:GLN:HE22	30:BG:31:VAL:HG22	1.74	0.52
30:BG:34:LEU:HD12	30:BG:34:LEU:O	2.09	0.52
31:BH:149:ARG:HD3	31:BH:153:LYS:HE3	1.91	0.52
31:BH:156:ALA:HA	31:BH:171:LEU:HD22	1.92	0.52
33:BL:115:LEU:HD12	33:BL:118:THR:HG22	1.91	0.52
33:BL:131:ALA:HB1	33:BL:136:VAL:CB	2.39	0.52
33:BL:18:THR:N	33:BL:38:VAL:HG21	2.25	0.52
33:BL:24:GLY:HA2	33:BL:34:ILE:HG23	1.90	0.52
33:BL:10:LEU:HD11	33:BL:41:PHE:HZ	1.70	0.52
34:BM:73:THR:OG1	34:BM:83:LYS:HD3	2.09	0.52
35:BN:68:GLU:HG2	35:BN:76:ALA:CA	2.39	0.52
36:BO:16:ARG:HG2	36:BO:19:VAL:CG1	2.39	0.52
36:BO:49:ARG:HH22	54:B7:55:ALA:HB2	1.74	0.52
37:BP:74:TYR:H	37:BP:74:TYR:HD2	1.54	0.52
39:BR:35:ILE:O	39:BR:36:TYR:CB	2.58	0.52
40:BS:64:ARG:NH1	40:BS:78:LEU:H	2.07	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1152:C:O4'	41:BT:77:SER:HA	2.09	0.52
44:BW:12:VAL:HB	44:BW:27:THR:C	2.29	0.52
45:BX:35:TYR:CD1	45:BX:64:GLU:O	2.62	0.52
46:BY:98:MET:HE2	46:BY:100:VAL:CG1	2.40	0.52
46:BY:100:VAL:O	46:BY:124:ILE:CG2	2.56	0.52
46:BY:5:LEU:HB2	46:BY:23:LYS:NZ	2.24	0.52
46:BY:68:PRO:HB2	46:BY:131:ARG:HH12	1.75	0.52
47:BZ:26:TYR:O	47:BZ:29:GLN:OE1	2.27	0.52
24:BA:2166:G:H2'	24:BA:2167:U:C6	2.43	0.52
26:BC:29:VAL:CG1	26:BC:30:LYS:N	2.71	0.52
26:BC:59:ARG:HH11	26:BC:59:ARG:CB	2.23	0.52
1:AA:160:A:C2	1:AA:343:U:H1'	2.45	0.52
14:AO:16:GLU:OE1	14:AO:17:LYS:O	2.27	0.52
20:AU:83:GLU:O	20:AU:84:LYS:C	2.47	0.52
1:AA:1083:U:H3'	1:AA:1084:G:H8	1.74	0.52
1:AA:1192:C:N4	1:AA:1193:G:N7	2.57	0.52
1:AA:1262:C:C2	1:AA:1263:C:C5	2.98	0.52
1:AA:261:U:C4	1:AA:264:U:OP2	2.62	0.52
1:AA:286:G:H2'	1:AA:287:U:H6	1.73	0.52
1:AA:321:A:C2	1:AA:322:C:C4	2.98	0.52
1:AA:321:A:C6	1:AA:322:C:N4	2.78	0.52
1:AA:587:G:H4'	10:AK:3:THR:O	2.09	0.52
1:AA:591:U:H2'	1:AA:592:G:H8	1.72	0.52
1:AA:587:G:C2	1:AA:755:G:C5	2.98	0.52
1:AA:758:G:H2'	1:AA:759:A:OP2	2.10	0.52
1:AA:811:C:H3'	1:AA:811:C:C6	2.43	0.52
1:AA:828:A:C2'	1:AA:829:G:O5'	2.57	0.52
1:AA:857:C:N3	1:AA:858:G:H1'	2.25	0.52
1:AA:918:A:H2'	1:AA:919:A:H8	1.69	0.52
1:AA:953:G:O2'	1:AA:954:G:H5'	2.09	0.52
1:AA:993:G:C6	1:AA:1046:A:C6	2.97	0.52
3:AC:2:C:H6	3:AC:2:C:O5'	1.92	0.52
5:AF:136:GLN:O	5:AF:137:ALA:C	2.47	0.52
5:AF:110:ASN:HD21	5:AF:140:ARG:CD	2.22	0.52
6:AG:168:ARG:CD	6:AG:168:ARG:N	2.69	0.52
7:AH:117:ASP:O	7:AH:118:ILE:HG13	2.09	0.52
7:AH:57:LYS:O	7:AH:58:ALA:C	2.48	0.52
7:AH:9:LYS:HB2	7:AH:33:VAL:CB	2.32	0.52
8:AI:41:GLU:HG2	8:AI:42:GLU:N	2.24	0.52
9:AJ:150:ALA:HB2	13:AN:59:TYR:CD2	2.45	0.52
9:AJ:69:VAL:CB	9:AJ:135:VAL:HG22	2.39	0.52
10:AK:49:GLU:OE1	10:AK:49:GLU:O	2.28	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AL:106:ALA:O	11:AL:107:ARG:CG	2.53	0.52
11:AL:115:GLY:C	11:AL:117:HIS:H	2.13	0.52
12:AM:79:ARG:HD3	12:AM:80:LYS:N	2.24	0.52
12:AM:87:THR:O	12:AM:87:THR:HG22	2.09	0.52
13:AN:57:THR:OG1	13:AN:59:TYR:CB	2.57	0.52
13:AN:64:ALA:O	13:AN:65:ALA:C	2.47	0.52
13:AN:66:LEU:C	13:AN:70:LYS:HZ2	2.13	0.52
1:AA:551:U:O2'	14:AO:86:ARG:HD2	2.09	0.52
15:AP:91:ARG:O	15:AP:96:LEU:HD23	2.09	0.52
17:AR:70:LEU:CG	17:AR:78:TYR:CD1	2.88	0.52
22:AW:55:ILE:C	22:AW:57:ARG:N	2.60	0.52
48:B1:16:LEU:CD2	48:B1:58:VAL:HG22	2.39	0.52
24:BA:931:G:H21	49:B2:24:LYS:C	2.13	0.52
49:B2:26:LEU:CG	49:B2:35:ARG:HH11	2.22	0.52
51:B4:10:LYS:HD2	51:B4:15:ARG:NH1	2.24	0.52
24:BA:458:G:N7	53:B6:38:GLY:HA2	2.24	0.52
54:B7:25:MET:C	54:B7:27:THR:N	2.58	0.52
54:B7:29:LYS:O	54:B7:30:ARG:O	2.26	0.52
55:B8:10:ILE:C	55:B8:12:ASP:H	2.08	0.52
55:B8:9:ARG:C	55:B8:10:ILE:CG1	2.78	0.52
24:BA:1061:U:C4'	24:BA:1070:A:HO2'	2.23	0.52
24:BA:1072:C:OP2	24:BA:1073:A:OP1	2.26	0.52
24:BA:1085:A:H5''	24:BA:1104:C:O2'	2.09	0.52
24:BA:1100:C:C2'	24:BA:1101:U:OP1	2.58	0.52
24:BA:1249:U:C4	36:BO:21:ARG:CZ	2.92	0.52
24:BA:1290:C:C2	24:BA:1291:C:C5	2.98	0.52
24:BA:1363:C:C2	24:BA:1369:G:N1	2.78	0.52
24:BA:1378:A:O2'	24:BA:1379:A:P	2.67	0.52
24:BA:149:A:C2'	24:BA:150:C:H5'	2.37	0.52
24:BA:1528:A:N7	24:BA:1529:A:C6	2.78	0.52
24:BA:1754:C:H2'	24:BA:1755:A:C1'	2.38	0.52
24:BA:1912:A:C2	24:BA:1919:A:N3	2.77	0.52
24:BA:1954:G:C2'	24:BA:1956:U:C4	2.93	0.52
24:BA:195:A:H4'	24:BA:251:A:C4'	2.40	0.52
24:BA:1992:G:C1'	24:BA:1993:U:H5	2.19	0.52
24:BA:209:C:C6	24:BA:209:C:O5'	2.62	0.52
24:BA:2239:G:H4'	27:BD:249:PRO:HG3	1.91	0.52
24:BA:2297:C:H2'	24:BA:2298:A:H8	1.73	0.52
24:BA:2309:A:N3	24:BA:2309:A:H2'	2.24	0.52
24:BA:2385:C:C2'	24:BA:2386:C:O5'	2.58	0.52
24:BA:2393:A:H5''	36:BO:56:SER:HA	1.87	0.52
24:BA:2436:G:O2'	24:BA:2437:U:C5'	2.58	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2447:G:H3'	24:BA:2499:C:O5'	2.10	0.52
24:BA:2625:G:C2'	24:BA:2626:C:O5'	2.57	0.52
24:BA:2626:C:O2'	24:BA:2627:G:O4'	2.25	0.52
24:BA:263:C:O2	24:BA:264:C:O4'	2.27	0.52
24:BA:2648:C:H2'	24:BA:2649:U:H6	1.72	0.52
24:BA:2813:A:C2	24:BA:2888:C:C2	2.98	0.52
24:BA:281:G:C2'	24:BA:281:G:N3	2.72	0.52
24:BA:2843:G:C4	24:BA:2844:G:C8	2.97	0.52
24:BA:2854:G:C6	24:BA:2855:C:C4	2.97	0.52
24:BA:2857:G:H2'	24:BA:2858:C:C5'	2.39	0.52
24:BA:247:G:O2'	24:BA:386:G:N2	2.42	0.52
24:BA:599:G:H5'	29:BF:31:HIS:NE2	2.24	0.52
24:BA:638:G:C3'	24:BA:638:G:C8	2.91	0.52
24:BA:687:C:H4'	53:B6:4:THR:CG2	2.40	0.52
24:BA:730:C:H5'	24:BA:761:A:OP1	2.10	0.52
24:BA:736:C:C4	24:BA:737:C:C5	2.97	0.52
24:BA:71:A:H2	24:BA:73:A:N1	2.06	0.52
24:BA:809:G:O4'	24:BA:1254:A:H1'	2.10	0.52
24:BA:833:U:H2'	24:BA:834:C:C6	2.44	0.52
24:BA:957:A:N6	24:BA:959:A:C5	2.77	0.52
24:BA:969:U:O5'	24:BA:969:U:H6	1.92	0.52
27:BD:78:LYS:CG	27:BD:114:GLY:O	2.57	0.52
27:BD:8:PRO:O	27:BD:25:THR:CG2	2.58	0.52
27:BD:52:ARG:N	27:BD:52:ARG:CD	2.72	0.52
24:BA:1567:A:N1	27:BD:85:ASP:N	2.57	0.52
28:BE:4:ILE:HG12	28:BE:30:PRO:HB3	1.91	0.52
28:BE:38:THR:HG1	28:BE:44:TYR:CB	2.23	0.52
28:BE:51:PHE:CE1	28:BE:76:ARG:N	2.77	0.52
29:BF:155:LEU:HD22	29:BF:157:VAL:CG1	2.40	0.52
30:BG:20:ILE:HD12	30:BG:28:VAL:CG1	2.40	0.52
30:BG:26:GLN:OE1	30:BG:29:TRP:CE3	2.63	0.52
30:BG:35:GLU:HA	30:BG:100:TRP:CH2	2.44	0.52
30:BG:44:GLY:CA	30:BG:72:ARG:HG2	2.39	0.52
31:BH:122:THR:HB	31:BH:134:SER:OG	2.09	0.52
31:BH:29:PRO:N	31:BH:79:VAL:O	2.43	0.52
31:BH:44:VAL:HG22	31:BH:45:VAL:N	2.23	0.52
31:BH:90:LYS:NZ	31:BH:163:TYR:CG	2.76	0.52
33:BL:106:GLU:OE1	33:BL:107:ILE:N	2.43	0.52
24:BA:1080:C:H4'	33:BL:125:ARG:O	2.10	0.52
24:BA:1076:C:C4'	33:BL:93:ARG:NH2	2.71	0.52
34:BM:115:ARG:O	34:BM:118:LYS:CB	2.52	0.52
35:BN:47:ILE:HG12	35:BN:48:PRO:O	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BN:63:VAL:CA	35:BN:78:ARG:HD3	2.36	0.52
36:BO:113:LYS:HG2	36:BO:114:ILE:N	2.25	0.52
36:BO:97:PRO:HD3	36:BO:102:ARG:NH2	2.24	0.52
37:BP:126:PRO:O	37:BP:127:ILE:HG13	2.09	0.52
38:BQ:34:ILE:O	38:BQ:113:LEU:HA	2.10	0.52
38:BQ:67:LEU:HD23	38:BQ:76:VAL:HG22	1.91	0.52
40:BS:51:ARG:O	40:BS:66:VAL:CA	2.55	0.52
40:BS:65:LYS:CE	40:BS:75:ILE:HD13	2.39	0.52
41:BT:85:LYS:HB3	41:BT:116:ALA:O	2.10	0.52
41:BT:47:TYR:OH	42:BU:77:ALA:CA	2.57	0.52
41:BT:93:LYS:HZ3	41:BT:93:LYS:N	2.07	0.52
42:BU:7:THR:C	42:BU:9:GLY:H	2.12	0.52
43:BV:33:ARG:NE	43:BV:33:ARG:CA	2.68	0.52
46:BY:116:VAL:CG2	46:BY:145:GLU:CG	2.88	0.52
46:BY:19:ARG:HE	46:BY:24:LEU:CD2	2.22	0.52
26:BC:100:ILE:HG12	26:BC:127:LEU:HD12	1.91	0.52
33:BL:14:ALA:CB	33:BL:53:VAL:HG21	2.40	0.52
2:A1:51:U:O2'	2:A1:52:U:C5'	2.57	0.52
1:AA:1207:G:O2'	1:AA:1208:C:H5'	2.10	0.52
1:AA:1232:U:OP1	11:AL:126:SER:HB2	2.10	0.52
1:AA:127:G:N2	1:AA:128:G:H1'	2.24	0.52
1:AA:1326:C:O2'	1:AA:1327:C:H5'	2.08	0.52
1:AA:1361:G:N7	1:AA:1362:C:C5	2.77	0.52
1:AA:1393:U:H2'	1:AA:1394:A:OP2	2.10	0.52
1:AA:1411:C:O5'	1:AA:1411:C:H6	1.92	0.52
1:AA:1422:G:N1	1:AA:1423:G:C5	2.78	0.52
1:AA:280:C:N3	19:AT:39:SER:CB	2.73	0.52
1:AA:333:G:C2	1:AA:334:C:C5	2.98	0.52
1:AA:50:A:H61	1:AA:361:G:H4'	1.70	0.52
1:AA:38:G:N2	1:AA:397:A:C8	2.75	0.52
1:AA:474:G:O2'	1:AA:475:G:H5'	2.09	0.52
1:AA:498:A:H1'	1:AA:500:G:O4'	2.09	0.52
1:AA:37:U:O2	1:AA:548:G:N1	2.43	0.52
1:AA:579:G:C4	1:AA:580:U:C6	2.98	0.52
1:AA:947:G:C2	1:AA:948:C:C6	2.97	0.52
4:AE:119:GLU:HA	4:AE:142:LEU:CD1	2.37	0.52
4:AE:136:VAL:O	4:AE:139:LYS:CG	2.56	0.52
4:AE:20:GLU:C	4:AE:39:ILE:HG13	2.30	0.52
4:AE:56:ARG:HH11	4:AE:57:PHE:N	2.07	0.52
5:AF:142:MET:HE2	5:AF:143:GLU:HA	1.92	0.52
5:AF:142:MET:HA	5:AF:146:ALA:HB3	1.92	0.52
6:AG:154:ASN:ND2	6:AG:155:LEU:CD2	2.72	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:79:PHE:CG	6:AG:80:GLU:N	2.77	0.52
7:AH:107:ARG:NH1	7:AH:107:ARG:CB	2.72	0.52
7:AH:125:SER:C	7:AH:127:ASN:N	2.61	0.52
7:AH:133:TYR:HA	7:AH:136:MET:CG	2.40	0.52
7:AH:147:ASP:O	7:AH:150:ARG:HB3	2.09	0.52
8:AI:11:ASN:CB	8:AI:84:ASN:HB3	2.39	0.52
8:AI:61:LEU:HD22	8:AI:63:TYR:OH	2.09	0.52
8:AI:3:ARG:HG3	8:AI:65:VAL:C	2.28	0.52
9:AJ:146:GLU:O	9:AJ:147:ALA:C	2.47	0.52
10:AK:36:LEU:CD1	10:AK:48:TYR:HB2	2.37	0.52
10:AK:86:ILE:HG22	10:AK:87:SER:N	2.24	0.52
12:AM:41:PRO:O	12:AM:42:THR:C	2.47	0.52
13:AN:102:GLY:HA2	13:AN:105:VAL:HG23	1.90	0.52
13:AN:65:ALA:CB	13:AN:98:LEU:HD23	2.33	0.52
14:AO:35:GLY:HA3	14:AO:60:LEU:CB	2.40	0.52
17:AR:53:HIS:O	17:AR:57:LEU:CD1	2.56	0.52
17:AR:78:TYR:O	17:AR:81:LEU:HB3	2.10	0.52
18:AS:43:LYS:HE3	18:AS:48:TRP:HZ3	1.74	0.52
18:AS:52:ASP:OD1	18:AS:55:ARG:CG	2.57	0.52
18:AS:59:TRP:O	18:AS:60:LEU:C	2.47	0.52
18:AS:53:VAL:HG12	18:AS:79:VAL:HG22	1.92	0.52
19:AT:36:ILE:H	19:AT:36:ILE:HD13	1.74	0.52
22:AW:40:ALA:CB	22:AW:55:ILE:HG21	2.38	0.52
22:AW:72:LEU:HD22	22:AW:76:ALA:C	2.30	0.52
23:AX:17:THR:O	23:AX:22:ARG:NH2	2.43	0.52
24:BA:2815:C:O2'	51:B4:42:PRO:HG3	2.10	0.52
53:B6:30:VAL:HG13	53:B6:33:ARG:NH1	2.24	0.52
54:B7:23:VAL:CG1	54:B7:24:ALA:N	2.72	0.52
24:BA:1019:U:O2	24:BA:1144:G:N2	2.42	0.52
24:BA:1010:A:O2'	24:BA:1152:C:O2	2.26	0.52
24:BA:1162:G:H4'	42:BU:23:GLU:O	2.09	0.52
24:BA:1343:G:H2'	24:BA:1384:A:H2	1.74	0.52
24:BA:1475:G:N7	24:BA:1517:G:C2	2.77	0.52
24:BA:1531:C:H2'	24:BA:1532:C:H5	1.68	0.52
24:BA:1754:C:C5	40:BS:98:LYS:HD3	2.45	0.52
24:BA:1790:C:H4'	27:BD:213:ARG:CZ	2.40	0.52
24:BA:1809:A:H8	24:BA:1810:A:O4'	1.92	0.52
24:BA:1802:A:N6	24:BA:1822:G:H1'	2.08	0.52
24:BA:1993:U:N3	24:BA:1994:C:N4	2.56	0.52
24:BA:2000:G:O6	24:BA:2001:A:N6	2.41	0.52
24:BA:1267:U:C5	24:BA:2012:G:N2	2.75	0.52
24:BA:2331:G:C5	24:BA:2332:U:C2	2.97	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2332:U:P	47:BZ:43:THR:HB	2.50	0.52
24:BA:2343:C:O2	24:BA:2344:U:H6	1.93	0.52
24:BA:2384:G:H5''	24:BA:2386:C:OP1	2.09	0.52
24:BA:2415:G:N1	24:BA:2416:C:C4	2.78	0.52
24:BA:2055:C:C2'	24:BA:2504:U:H5'	2.33	0.52
24:BA:2512:C:C6	24:BA:2512:C:H3'	2.45	0.52
24:BA:2588:G:O6	24:BA:2589:A:N6	2.43	0.52
24:BA:2684:U:O2'	35:BN:67:LYS:CG	2.57	0.52
24:BA:2699:C:O2'	24:BA:2700:C:H5'	2.09	0.52
24:BA:2711:A:OP2	24:BA:2714:G:OP1	2.28	0.52
24:BA:2731:G:H4'	28:BE:168:MET:CE	2.38	0.52
24:BA:2815:C:N3	24:BA:2816:C:C5	2.78	0.52
24:BA:292:C:H2'	24:BA:293:U:N3	2.25	0.52
24:BA:386:G:O5'	24:BA:388:G:N2	2.43	0.52
24:BA:223:A:C4	24:BA:422:A:C8	2.97	0.52
24:BA:448:U:C2'	24:BA:448:U:O2	2.53	0.52
24:BA:507:A:O4'	24:BA:509:C:C2	2.63	0.52
24:BA:598:G:N2	24:BA:599:G:H1'	2.25	0.52
24:BA:685:A:O2'	24:BA:686:G:P	2.68	0.52
24:BA:795:C:H2'	24:BA:796:C:C6	2.45	0.52
24:BA:820:A:H2'	24:BA:820:A:N3	2.24	0.52
24:BA:844:C:OP2	24:BA:844:C:C6	2.62	0.52
24:BA:848:G:H2'	24:BA:849:A:N7	2.23	0.52
24:BA:910:A:C5	37:BP:17:LEU:HD11	2.43	0.52
24:BA:945:A:OP1	24:BA:945:A:H4'	2.08	0.52
24:BA:950:G:C6	24:BA:951:C:N4	2.77	0.52
24:BA:957:A:C6	24:BA:959:A:C4	2.98	0.52
24:BA:979:G:C3'	24:BA:980:A:C5'	2.78	0.52
25:BB:52:A:C4'	25:BB:52:A:OP1	2.58	0.52
28:BE:127:ASP:CG	28:BE:135:HIS:H	2.12	0.52
28:BE:174:ASP:OD1	28:BE:175:VAL:N	2.43	0.52
28:BE:38:THR:HA	28:BE:42:ASP:HA	1.91	0.52
28:BE:5:LEU:O	28:BE:195:LEU:CD2	2.58	0.52
28:BE:51:PHE:HD1	28:BE:76:ARG:HG2	1.73	0.52
24:BA:2636:U:P	28:BE:79:ARG:HB3	2.48	0.52
29:BF:184:TYR:C	29:BF:186:ILE:N	2.60	0.52
30:BG:36:LYS:HG3	30:BG:160:VAL:CG2	2.40	0.52
31:BH:111:HIS:O	31:BH:112:PRO:C	2.43	0.52
31:BH:11:VAL:HG11	31:BH:17:VAL:CB	2.40	0.52
33:BL:129:GLY:N	33:BL:132:ARG:NH2	2.58	0.52
24:BA:1096:A:N1	33:BL:26:ALA:HB1	2.25	0.52
34:BM:99:LEU:HD12	34:BM:103:VAL:HG11	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2780:G:N2	34:BM:97:ARG:NH2	2.57	0.52
35:BN:19:ILE:C	35:BN:19:ILE:CD1	2.78	0.52
36:BO:105:LEU:O	36:BO:106:LEU:CG	2.53	0.52
36:BO:116:GLY:CA	36:BO:121:LYS:HB3	2.40	0.52
36:BO:114:ILE:HB	36:BO:130:PHE:HA	1.91	0.52
24:BA:907:U:H5'	37:BP:24:GLY:O	2.09	0.52
24:BA:871:U:H5''	37:BP:9:TYR:CE2	2.44	0.52
38:BQ:65:LEU:CD2	38:BQ:65:LEU:C	2.77	0.52
39:BR:20:ARG:O	39:BR:21:THR:HG23	2.10	0.52
39:BR:40:ILE:CG2	39:BR:41:ASP:N	2.72	0.52
39:BR:76:LYS:CE	39:BR:77:ALA:HB2	2.38	0.52
40:BS:56:GLY:O	40:BS:61:PHE:CB	2.57	0.52
40:BS:70:VAL:HG23	40:BS:74:ARG:HD3	1.89	0.52
41:BT:108:GLU:O	41:BT:110:VAL:N	2.43	0.52
42:BU:39:LEU:HG	42:BU:58:VAL:C	2.29	0.52
43:BV:12:ILE:HD13	43:BV:12:ILE:N	2.24	0.52
44:BW:12:VAL:HG13	44:BW:14:SER:CB	2.39	0.52
44:BW:18:TYR:HD1	44:BW:21:PHE:CE1	2.26	0.52
45:BX:13:VAL:CG2	45:BX:14:LEU:N	2.72	0.52
46:BY:151:HIS:CG	46:BY:170:THR:H	2.28	0.52
46:BY:144:LEU:C	46:BY:174:VAL:HG11	2.30	0.52
46:BY:6:LYS:HB2	46:BY:37:VAL:HG13	1.92	0.52
47:BZ:19:LYS:HG2	47:BZ:20:ARG:N	2.21	0.52
47:BZ:44:ARG:HG2	47:BZ:77:ARG:HG3	1.91	0.52
32:BK:93:THR:CG2	32:BK:96:ASP:N	2.64	0.52
32:BK:93:THR:N	32:BK:96:ASP:OD2	2.28	0.52
3:AD:58:A:C2	3:AD:61:C:H1'	2.44	0.52
24:BA:2124:G:N1	24:BA:2173:A:N6	2.58	0.52
26:BC:19:ILE:HG23	26:BC:223:ARG:CB	2.39	0.52
48:B1:7:GLU:HA	48:B1:10:LYS:CG	2.39	0.52
1:AA:1123:A:O4'	1:AA:1123:A:OP2	2.27	0.52
2:A1:46:U:C6	2:A1:46:U:H3'	2.45	0.52
1:AA:1034:G:C2	1:AA:1035:A:C5	2.98	0.52
1:AA:1064:G:OP1	1:AA:1386:G:C5'	2.58	0.52
1:AA:1048:G:H1'	1:AA:1215:G:H5'	1.92	0.52
1:AA:1270:C:O2'	1:AA:1313:U:O2'	2.23	0.52
1:AA:1317:C:O2'	1:AA:1318:A:H5'	2.10	0.52
1:AA:1422:G:H2'	1:AA:1423:G:C8	2.41	0.52
1:AA:178:C:H2'	1:AA:179:A:H8	1.73	0.52
1:AA:186(B):C:C2'	1:AA:186(C):G:H5'	2.39	0.52
1:AA:186(C):G:C6	1:AA:186(D):C:C4	2.97	0.52
1:AA:20:U:H6	1:AA:916:G:N2	2.08	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:216:G:H2'	1:AA:217:C:C6	2.44	0.52
1:AA:226:G:C2	1:AA:227:G:C4	2.97	0.52
1:AA:314:C:O3'	1:AA:315:A:O4'	2.27	0.52
1:AA:598:U:C2	1:AA:599:C:C6	2.97	0.52
1:AA:640:A:H2'	1:AA:641:U:C4'	2.40	0.52
1:AA:595:G:H8	1:AA:641:U:O4	1.93	0.52
1:AA:739:C:O2	1:AA:739:C:H2'	2.10	0.52
1:AA:790:A:C2'	1:AA:791:G:O5'	2.57	0.52
1:AA:817:C:C6	1:AA:819:A:H4'	2.44	0.52
1:AA:915:A:O2'	1:AA:916:G:H5'	2.08	0.52
1:AA:948:C:H2'	1:AA:949:A:C8	2.42	0.52
1:AA:973:G:N1	1:AA:974:A:C5	2.78	0.52
3:AC:53:G:N2	3:AC:62:C:C2	2.77	0.52
3:AC:56:C:O2	30:BG:82:LEU:HD13	2.10	0.52
4:AE:105:PHE:C	4:AE:107:THR:N	2.62	0.52
4:AE:217:ARG:O	4:AE:220:ASP:CB	2.52	0.52
4:AE:47:THR:CG2	4:AE:51:LEU:HD21	2.37	0.52
4:AE:80:ILE:HD11	4:AE:212:GLN:HG2	1.92	0.52
5:AF:14:ILE:HG22	5:AF:15:THR:HG22	1.92	0.52
6:AG:137:SER:O	6:AG:138:TYR:C	2.47	0.52
6:AG:16:GLY:O	6:AG:17:VAL:C	2.48	0.52
7:AH:34:VAL:O	7:AH:41:VAL:HA	2.09	0.52
9:AJ:87:VAL:HB	9:AJ:156:TRP:CZ3	2.45	0.52
7:AH:78:HIS:CG	10:AK:104:ARG:HD3	2.43	0.52
10:AK:14:ARG:HH11	10:AK:14:ARG:N	2.08	0.52
10:AK:9:MET:O	10:AK:10:LEU:C	2.48	0.52
1:AA:779:C:H4'	13:AN:120:ARG:O	2.10	0.52
14:AO:28:LYS:NZ	14:AO:33:ARG:NH2	2.41	0.52
14:AO:57:LYS:CG	14:AO:67:THR:HG22	2.28	0.52
1:AA:1227:A:H4'	15:AP:115:LYS:NZ	2.25	0.52
5:AF:29:TYR:HB3	16:AQ:36:PHE:CE1	2.45	0.52
20:AU:31:LEU:HD21	20:AU:62:GLU:OE2	2.10	0.52
20:AU:20:ALA:HB1	20:AU:55:ARG:NH2	2.24	0.52
48:B1:27:LEU:C	48:B1:30:LEU:HG	2.29	0.52
24:BA:95:G:P	48:B1:39:LEU:HB3	2.48	0.52
50:B3:15:ILE:HG13	50:B3:36:CYS:SG	2.50	0.52
50:B3:57:GLU:CA	50:B3:61:ARG:HG3	2.40	0.52
50:B3:57:GLU:O	50:B3:61:ARG:HG3	2.07	0.52
51:B4:51:TYR:C	51:B4:51:TYR:HD2	2.11	0.52
54:B7:60:LEU:O	54:B7:63:PRO:HD3	2.09	0.52
24:BA:1163:G:O2'	24:BA:1164:G:H5'	2.08	0.52
24:BA:1222:C:H2'	24:BA:1223:C:C5'	2.39	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1338:G:O2'	44:BW:16:LYS:HD3	2.08	0.52
24:BA:1365:A:C8	24:BA:1366:A:N7	2.77	0.52
24:BA:1381:G:C5	24:BA:1382:G:C5	2.98	0.52
24:BA:1496:A:N3	24:BA:1498:C:N4	2.50	0.52
24:BA:1534:G:H3'	24:BA:1534:G:C8	2.45	0.52
24:BA:1538:G:N1	24:BA:1539:G:C2	2.77	0.52
24:BA:1660:C:O2'	24:BA:1661:G:H5'	2.09	0.52
24:BA:1693:U:O2	24:BA:1693:U:C2'	2.56	0.52
24:BA:1742:C:N4	24:BA:1743:G:H8	2.00	0.52
24:BA:1746:G:OP2	24:BA:1746:G:C8	2.63	0.52
24:BA:152:G:N1	24:BA:175:G:C4	2.78	0.52
24:BA:1784:A:C8	24:BA:1981:A:C4	2.97	0.52
24:BA:2045:C:O2'	51:B4:22:HIS:HB2	2.09	0.52
24:BA:2094:G:N1	24:BA:2196:C:C4	2.78	0.52
24:BA:2096:U:H2'	24:BA:2097:C:C6	2.44	0.52
24:BA:2265:U:O2	24:BA:2266:A:N7	2.41	0.52
24:BA:2309:A:H5''	24:BA:2310:A:C8	2.45	0.52
24:BA:2245:U:O2	24:BA:2435:A:H3'	2.09	0.52
24:BA:2582:G:H2'	24:BA:2583:G:H5'	1.89	0.52
24:BA:2596:U:O3'	27:BD:242:ARG:NE	2.43	0.52
24:BA:2660:A:O2'	24:BA:2661:G:H5'	2.09	0.52
24:BA:2749:A:C2	24:BA:2750:A:N6	2.77	0.52
24:BA:2845:G:O2'	24:BA:2846:G:O4'	2.23	0.52
24:BA:428:A:N3	24:BA:428:A:H2'	2.25	0.52
24:BA:534:U:OP1	41:BT:24:TYR:HE2	1.93	0.52
24:BA:564:C:H5''	42:BU:80:GLN:HA	1.90	0.52
24:BA:612:G:N2	24:BA:617:G:H1	2.07	0.52
24:BA:637:A:C2	24:BA:651:G:C4'	2.92	0.52
24:BA:714:U:O2	24:BA:717:G:N7	2.42	0.52
24:BA:945:A:C3'	24:BA:946:G:C5'	2.87	0.52
25:BB:73:A:C8	25:BB:104:A:N1	2.78	0.52
25:BB:87:G:N2	25:BB:90:C:C2	2.78	0.52
25:BB:90:C:H2'	25:BB:91:C:C6	2.44	0.52
27:BD:107:ALA:N	27:BD:108:PRO:CD	2.71	0.52
24:BA:2216:G:N3	27:BD:150:LYS:NZ	2.57	0.52
27:BD:142:VAL:HG22	27:BD:165:ILE:HD11	1.91	0.52
24:BA:781:A:H8	27:BD:220:HIS:NE2	2.07	0.52
28:BE:103:ASP:O	28:BE:104:VAL:HG23	2.10	0.52
28:BE:102:VAL:O	28:BE:170:LEU:HD23	2.09	0.52
28:BE:179:GLU:CB	28:BE:181:LEU:HD11	2.36	0.52
28:BE:200:GLU:CA	28:BE:202:LYS:HZ3	2.23	0.52
28:BE:26:ILE:HG13	28:BE:181:LEU:HD23	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:BE:55:ASN:C	28:BE:57:LYS:N	2.61	0.52
29:BF:103:LYS:HA	29:BF:106:ARG:NE	2.24	0.52
29:BF:56:GLU:O	29:BF:60:SER:N	2.43	0.52
30:BG:35:GLU:O	30:BG:160:VAL:HB	2.09	0.52
30:BG:38:VAL:CG1	30:BG:93:THR:HG23	2.40	0.52
30:BG:85:GLY:O	30:BG:86:MET:HB2	2.09	0.52
31:BH:23:ARG:NH2	31:BH:36:PRO:N	2.57	0.52
31:BH:35:VAL:CG1	31:BH:75:ALA:HB2	2.39	0.52
31:BH:69:ARG:O	31:BH:73:ALA:HB2	2.10	0.52
32:BK:31:LEU:N	32:BK:32:PRO:HD2	2.24	0.52
34:BM:34:LEU:CA	34:BM:49:GLY:HA2	2.39	0.52
34:BM:58:ASP:HB3	34:BM:124:ALA:HB1	1.90	0.52
35:BN:12:ASP:O	35:BN:94:ARG:HD2	2.09	0.52
36:BO:127:ALA:O	36:BO:147:LEU:HD13	2.09	0.52
37:BP:122:GLY:HA2	37:BP:125:LEU:CD1	2.39	0.52
39:BR:30:ARG:HD2	39:BR:91:PRO:HB2	1.91	0.52
39:BR:78:LEU:O	39:BR:78:LEU:HD22	2.10	0.52
39:BR:95:HIS:HA	39:BR:99:LYS:CD	2.36	0.52
40:BS:101:PHE:C	40:BS:103:ARG:H	2.12	0.52
40:BS:104:ASN:HA	40:BS:108:ARG:HH12	1.74	0.52
24:BA:2876:G:C5'	40:BS:1:MET:N	2.73	0.52
40:BS:17:THR:HG21	40:BS:20:PRO:CA	2.40	0.52
41:BT:55:ARG:HB3	41:BT:58:ARG:NE	2.15	0.52
42:BU:36:PRO:HB3	42:BU:61:VAL:CG2	2.39	0.52
41:BT:47:TYR:CE1	42:BU:77:ALA:HA	2.45	0.52
43:BV:8:ARG:C	43:BV:102:HIS:HD2	2.13	0.52
44:BW:58:HIS:CE1	44:BW:77:LYS:HE3	2.44	0.52
24:BA:1312:U:O5'	44:BW:62:LYS:HD2	2.09	0.52
44:BW:7:VAL:HB	48:B1:28:MET:SD	2.50	0.52
46:BY:17:ALA:CA	46:BY:20:ARG:NH2	2.72	0.52
37:BP:136:ALA:HB1	46:BY:76:LEU:CD1	2.40	0.52
47:BZ:9:SER:C	47:BZ:10:THR:O	2.41	0.52
32:BK:109:ILE:HG21	32:BK:113:ARG:CZ	2.40	0.52
32:BK:125:GLU:O	32:BK:125:GLU:OE1	2.28	0.52
3:AD:58:A:O2'	3:AD:59:U:P	2.67	0.52
26:BC:177:LYS:CB	26:BC:180:PHE:HB2	2.36	0.52
26:BC:189:ILE:HD11	26:BC:214:VAL:HG21	1.92	0.52
24:BA:1579:A:H2'	24:BA:1580:A:H4'	1.90	0.52
24:BA:438:G:O2'	24:BA:439:G:H5'	2.08	0.52
20:AU:83:GLU:OE1	20:AU:83:GLU:HA	2.09	0.52
1:AA:30:U:HO2'	1:AA:31:G:P	2.32	0.52
1:AA:1045:C:C2'	1:AA:1046:A:H8	2.19	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1155:G:H2'	1:AA:1156:G:C8	2.44	0.52
1:AA:1203:C:C2	1:AA:1204:A:C8	2.97	0.52
1:AA:1234:C:C4	1:AA:1235:U:C4	2.97	0.52
1:AA:1310:G:O2'	1:AA:1311:G:H5'	2.09	0.52
1:AA:133:U:O4	1:AA:229:U:O4	2.27	0.52
1:AA:1373:G:H5'	9:AJ:36:LYS:HB2	1.92	0.52
1:AA:1429:C:O2'	1:AA:1430:C:O5'	2.23	0.52
1:AA:1450:U:H1'	1:AA:1453:G:H1	1.75	0.52
1:AA:151:A:C5	1:AA:152:A:C2	2.97	0.52
1:AA:66:G:C5'	1:AA:173:U:O4	2.55	0.52
1:AA:355:C:C4	1:AA:356:A:N7	2.78	0.52
1:AA:46:G:C2	1:AA:366:C:C2	2.98	0.52
1:AA:382:A:H2'	1:AA:383:A:O5'	2.10	0.52
1:AA:393:A:H5'	1:AA:483:C:H4'	1.92	0.52
1:AA:581:G:C2'	1:AA:582:U:OP2	2.57	0.52
1:AA:608:A:C2	1:AA:609:A:O4'	2.62	0.52
1:AA:673:G:C2'	1:AA:674:G:C8	2.91	0.52
1:AA:785:G:C6	1:AA:798:G:C6	2.98	0.52
1:AA:766:A:C8	1:AA:814:A:C6	2.97	0.52
1:AA:895:G:H2'	1:AA:896:C:H6	1.73	0.52
3:AB:12:U:C2	3:AB:24:G:N2	2.78	0.52
4:AE:72:GLY:HA2	4:AE:165:VAL:HG22	1.91	0.52
4:AE:73:THR:O	4:AE:74:LYS:C	2.48	0.52
5:AF:28:GLN:NE2	5:AF:29:TYR:H	2.08	0.52
6:AG:128:VAL:N	6:AG:146:ILE:HG22	2.24	0.52
6:AG:141:ARG:CG	6:AG:142:PRO:HD2	2.39	0.52
6:AG:61:LYS:HA	6:AG:203:VAL:CG2	2.39	0.52
6:AG:9:CYS:O	6:AG:12:CYS:HB2	2.10	0.52
7:AH:98:THR:CG2	7:AH:119:LEU:HD21	2.39	0.52
8:AI:29:ALA:O	8:AI:30:LEU:C	2.47	0.52
8:AI:40:VAL:HG22	8:AI:40:VAL:O	2.09	0.52
9:AJ:146:GLU:O	9:AJ:149:ARG:N	2.42	0.52
11:AL:4:TYR:CE1	11:AL:59:PHE:CE2	2.91	0.52
13:AN:99:GLN:HA	13:AN:105:VAL:HG13	1.91	0.52
14:AO:84:LEU:O	14:AO:100:ILE:HG22	2.10	0.52
14:AO:24:VAL:HG13	14:AO:26:ALA:N	2.23	0.52
1:AA:1226:C:C5'	15:AP:103:THR:O	2.54	0.52
16:AQ:16:PHE:O	16:AQ:17:LYS:C	2.47	0.52
1:AA:1048:G:C5'	16:AQ:3:ARG:NH1	2.68	0.52
1:AA:1216:G:OP1	16:AQ:3:ARG:NH2	2.43	0.52
18:AS:38:TYR:O	18:AS:49:LEU:HD12	2.10	0.52
19:AT:22:LEU:HD11	19:AT:39:SER:OG	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:AT:7:THR:HG23	19:AT:8:GLY:N	2.24	0.52
8:AI:46:ARG:NH2	20:AU:37:VAL:HG11	2.25	0.52
22:AW:29:LYS:O	22:AW:32:ALA:CB	2.56	0.52
48:B1:23:LYS:O	48:B1:26:GLU:CB	2.52	0.52
48:B1:59:LEU:HD11	48:B1:63:ARG:HE	1.74	0.52
49:B2:50:VAL:HG12	49:B2:51:ALA:N	2.23	0.52
50:B3:31:ILE:O	50:B3:32:TYR:CD2	2.63	0.52
24:BA:1024:G:OP2	24:BA:1025:G:N2	2.43	0.52
24:BA:1142:U:H3'	24:BA:1142(A):A:C8	2.42	0.52
24:BA:1143:A:O2'	24:BA:1144:G:H5'	2.09	0.52
24:BA:1151:G:H2'	24:BA:1152:C:C5	2.45	0.52
24:BA:1222:C:N3	24:BA:1223:C:C5	2.78	0.52
24:BA:1263:U:C5	24:BA:1265:A:N6	2.75	0.52
24:BA:1264:G:OP2	24:BA:1265:A:C2	2.63	0.52
24:BA:1360:A:C8	24:BA:1361:G:C8	2.97	0.52
24:BA:144:C:O2'	24:BA:145:G:H5'	2.10	0.52
24:BA:1692:U:C1'	24:BA:1696:G:H22	2.22	0.52
24:BA:1735:C:H42	24:BA:1741:C:N4	2.05	0.52
24:BA:175:G:N2	24:BA:176:G:C1'	2.71	0.52
24:BA:1773:A:C6	24:BA:1829:A:C1'	2.88	0.52
24:BA:1782:C:C6	24:BA:1782:C:C3'	2.93	0.52
24:BA:1788:C:C6	24:BA:1788:C:C3'	2.93	0.52
24:BA:1799:G:H22	27:BD:157:ARG:NH2	2.04	0.52
24:BA:1956:U:C6	24:BA:1956:U:O5'	2.63	0.52
24:BA:2009:G:C2	24:BA:2010:G:C8	2.98	0.52
24:BA:2033:A:O2'	24:BA:2034:U:P	2.68	0.52
24:BA:2054:A:H62	24:BA:2577:A:N6	2.07	0.52
24:BA:2067:G:C6	24:BA:2069:G:N7	2.77	0.52
24:BA:19:C:N3	24:BA:20:C:C5	2.78	0.52
24:BA:215:G:H1'	24:BA:216:A:C4'	2.40	0.52
24:BA:2208:U:H1'	24:BA:2217:G:N2	2.25	0.52
24:BA:2285:C:H4'	24:BA:2288:A:N1	2.25	0.52
24:BA:2301:C:N3	24:BA:2302:G:N7	2.58	0.52
24:BA:2302:G:C6	24:BA:2315:G:C6	2.98	0.52
24:BA:2366:A:H3'	24:BA:2367:G:C8	2.45	0.52
24:BA:2460:U:H2'	24:BA:2492:U:O4	2.09	0.52
24:BA:2617:C:C2	24:BA:2618:G:C8	2.98	0.52
24:BA:2626:C:C2	24:BA:2627:G:C8	2.98	0.52
24:BA:2675:A:H2'	24:BA:2676:C:C6	2.45	0.52
24:BA:2638:G:N2	24:BA:2781:A:N6	2.57	0.52
24:BA:2784:C:C1'	28:BE:41:LYS:HZ3	2.22	0.52
24:BA:2834:G:C5	24:BA:2879:C:C4	2.97	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:319:C:O2'	24:BA:320:A:O4'	2.27	0.52
24:BA:423:A:H2'	24:BA:424:G:OP1	2.10	0.52
24:BA:51:G:C5'	24:BA:52:A:OP1	2.54	0.52
24:BA:616:A:H2'	24:BA:617:G:N3	2.25	0.52
24:BA:630:G:N1	24:BA:634:C:N4	2.58	0.52
24:BA:675:A:O3'	29:BF:67:GLN:OE1	2.27	0.52
24:BA:691:C:O2'	24:BA:692:C:H5'	2.08	0.52
24:BA:702:G:C2'	24:BA:703:U:H5'	2.39	0.52
24:BA:728:G:H1'	24:BA:729:G:H8	1.75	0.52
24:BA:763:G:N3	24:BA:765:G:C1'	2.73	0.52
24:BA:855:G:H21	47:BZ:27:GLU:HB2	1.71	0.52
24:BA:878:A:C4	24:BA:879:G:C8	2.98	0.52
24:BA:962:G:C3'	24:BA:963:U:H6	2.23	0.52
25:BB:100:G:C5	25:BB:101:A:N7	2.78	0.52
25:BB:117:G:C2	25:BB:118:G:N7	2.78	0.52
27:BD:96:HIS:CG	27:BD:102:LYS:HG2	2.44	0.52
27:BD:246:PRO:HG2	27:BD:250:TRP:HD1	1.75	0.52
27:BD:69:ARG:C	27:BD:70:TRP:CG	2.83	0.52
27:BD:7:LYS:HZ2	27:BD:91:ARG:CD	2.23	0.52
27:BD:95:LEU:C	27:BD:95:LEU:CD1	2.77	0.52
28:BE:4:ILE:HD11	28:BE:76:ARG:NH2	2.24	0.52
28:BE:97:LYS:HD2	28:BE:98:PRO:HD2	1.90	0.52
29:BF:133:ASN:HB3	29:BF:165:ARG:NH2	2.24	0.52
29:BF:63:LYS:CA	29:BF:76:GLY:O	2.53	0.52
30:BG:163:ALA:CB	30:BG:169:ALA:HA	2.25	0.52
32:BK:8:PRO:CD	32:BK:35:LEU:O	2.58	0.52
33:BL:12:LEU:CB	33:BL:19:PRO:HG3	2.32	0.52
33:BL:78:ILE:HG21	33:BL:131:ALA:HB2	1.90	0.52
24:BA:1139:G:C5'	34:BM:24:GLY:HA3	2.40	0.52
34:BM:36:GLY:C	34:BM:47:ALA:HB3	2.29	0.52
34:BM:39:ARG:CB	34:BM:48:MET:SD	2.98	0.52
36:BO:92:GLU:N	36:BO:125:VAL:HG11	2.21	0.52
36:BO:92:GLU:O	36:BO:93:GLY:C	2.47	0.52
24:BA:2484:G:H21	37:BP:124:LYS:HD2	1.75	0.52
37:BP:51:ARG:CD	37:BP:52:VAL:N	2.70	0.52
37:BP:62:GLY:CA	46:BY:177:PRO:HA	2.37	0.52
38:BQ:54:LEU:CD1	38:BQ:54:LEU:N	2.71	0.52
38:BQ:22:ARG:HG2	38:BQ:70:LEU:CD2	2.40	0.52
39:BR:26:LEU:O	39:BR:88:ASP:CB	2.53	0.52
39:BR:49:VAL:CG2	39:BR:80:LEU:HG	2.40	0.52
25:BB:50:G:O3'	39:BR:61:ASN:HA	2.10	0.52
40:BS:21:GLU:O	40:BS:23:ARG:CD	2.53	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BS:67:SER:CB	40:BS:75:ILE:HG23	2.39	0.52
43:BV:74:ALA:HB1	43:BV:105:VAL:CA	2.40	0.52
46:BY:118:GLN:NE2	46:BY:119:GLU:C	2.63	0.52
46:BY:96:VAL:HG13	46:BY:128:VAL:CG1	2.40	0.52
46:BY:43:GLU:N	46:BY:43:GLU:OE2	2.43	0.52
47:BZ:11:ARG:NH1	47:BZ:11:ARG:HG2	2.25	0.52
47:BZ:22:GLY:O	47:BZ:38:VAL:HA	2.09	0.52
47:BZ:44:ARG:HG3	47:BZ:77:ARG:HG3	1.92	0.52
32:BK:73:GLU:HG3	32:BK:138:ILE:CD1	2.39	0.52
26:BC:93:TYR:CE1	26:BC:109:ASP:HB2	2.45	0.52
26:BC:200:LYS:HG3	26:BC:208:PHE:CE2	2.45	0.52
24:BA:182:A:O2'	24:BA:183:C:H5'	2.09	0.52
24:BA:487:C:C3'	24:BA:487:C:C6	2.93	0.52
1:AA:1032(B):G:H2'	1:AA:1033:G:O4'	2.10	0.52
1:AA:1060:C:H2'	1:AA:1061:G:H8	1.75	0.52
1:AA:1248:A:HO2'	11:AL:36:TYR:HE1	1.47	0.52
1:AA:1285:A:O4'	1:AA:1286:A:N7	2.42	0.52
1:AA:1321:C:C5	1:AA:1322:C:C2'	2.93	0.52
1:AA:1323:G:C4	1:AA:1324:A:N7	2.78	0.52
1:AA:210:U:H4'	1:AA:216:G:O4'	2.10	0.52
1:AA:299:G:C2'	1:AA:300:A:C8	2.92	0.52
1:AA:375:U:H2'	1:AA:376:G:C5'	2.39	0.52
1:AA:411:A:C5	1:AA:429:U:C5	2.98	0.52
1:AA:432:A:H3'	1:AA:432:A:C8	2.44	0.52
1:AA:573:A:OP2	1:AA:574:A:OP2	2.28	0.52
1:AA:729:A:H2'	1:AA:730:G:O5'	2.10	0.52
1:AA:776:G:C5'	1:AA:777:A:OP1	2.51	0.52
1:AA:811:C:H5	1:AA:812:C:C2	2.28	0.52
1:AA:817:C:N1	1:AA:819:A:H5'	2.25	0.52
1:AA:88:C:C2'	1:AA:89:U:OP2	2.58	0.52
3:AB:16:U:OP1	3:AB:16:U:C6	2.62	0.52
3:AC:75:C:O5'	3:AC:76:A:OP2	2.27	0.52
4:AE:130:ARG:CB	4:AE:131:PRO:CD	2.88	0.52
4:AE:15:VAL:O	4:AE:16:HIS:HB2	2.08	0.52
4:AE:43:ASP:O	4:AE:47:THR:HB	2.10	0.52
1:AA:1056:U:O2'	5:AF:195:VAL:O	2.17	0.52
5:AF:37:GLN:HA	5:AF:37:GLN:OE1	2.09	0.52
5:AF:43:LEU:CD2	5:AF:55:VAL:HG21	2.40	0.52
1:AA:543:C:P	6:AG:10:ARG:NH2	2.83	0.52
6:AG:15:GLU:HB2	6:AG:19:LEU:HD11	1.92	0.52
6:AG:17:VAL:O	6:AG:18:LYS:C	2.48	0.52
9:AJ:42:ILE:O	9:AJ:43:PHE:C	2.48	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AK:111:ILE:HG13	10:AK:120:THR:HG22	1.92	0.52
10:AK:68:ARG:N	10:AK:76:PRO:HG3	2.25	0.52
16:AQ:14:PRO:HB2	16:AQ:17:LYS:HA	1.91	0.52
17:AR:54:ARG:NE	17:AR:58:MET:HE2	2.25	0.52
17:AR:77:ARG:NH1	17:AR:81:LEU:H	2.07	0.52
18:AS:12:LYS:O	18:AS:13:HIS:HB2	2.08	0.52
18:AS:26:ARG:O	18:AS:27:LYS:C	2.46	0.52
18:AS:54:GLU:O	18:AS:55:ARG:C	2.45	0.52
18:AS:82:GLN:O	18:AS:82:GLN:CG	2.57	0.52
48:B1:59:LEU:HD11	48:B1:63:ARG:NE	2.24	0.52
49:B2:35:ARG:HH22	49:B2:47:VAL:HG11	1.74	0.52
51:B4:12:SER:OG	51:B4:13:LYS:N	2.43	0.52
52:B5:22:ALA:CB	52:B5:39:TYR:HE2	2.22	0.52
53:B6:9:ARG:O	53:B6:13:ALA:HB3	2.08	0.52
54:B7:24:ALA:O	54:B7:25:MET:C	2.48	0.52
54:B7:29:LYS:NZ	54:B7:36:LYS:HZ1	2.07	0.52
55:B8:9:ARG:NH2	55:B8:16:VAL:CG1	2.73	0.52
24:BA:1139:G:N7	34:BM:65:LYS:HE2	2.24	0.52
24:BA:1212:G:H3'	24:BA:1212:G:C8	2.45	0.52
24:BA:1238:G:N2	24:BA:1239:G:H1'	2.25	0.52
24:BA:1265:A:O5'	24:BA:1267:U:O2	2.28	0.52
24:BA:1277:G:O2'	38:BQ:24:GLN:HG2	2.10	0.52
24:BA:1354:A:C2'	24:BA:1355:G:H5'	2.40	0.52
24:BA:1392:A:C5	24:BA:1393:A:C6	2.97	0.52
24:BA:1405:U:C2	24:BA:1406:U:C4	2.98	0.52
24:BA:140:A:N6	24:BA:1596:A:H4'	2.21	0.52
24:BA:1673:U:HO2'	24:BA:1674:G:P	2.32	0.52
24:BA:1788:C:C2'	27:BD:222:ARG:NH2	2.49	0.52
24:BA:1820:U:H2'	27:BD:202:LYS:CG	2.30	0.52
24:BA:1861:G:N2	24:BA:1862:G:H1'	2.24	0.52
24:BA:1879:C:H2'	24:BA:1880:C:C6	2.44	0.52
24:BA:1890:A:C2	24:BA:1891:G:H1'	2.45	0.52
24:BA:1906:G:C2	24:BA:1907:G:N7	2.78	0.52
24:BA:2051:A:OP2	24:BA:2051:A:H8	1.92	0.52
24:BA:2213:U:OP2	24:BA:2215:G:C6	2.62	0.52
24:BA:963:U:C1'	24:BA:2250:G:H21	2.19	0.52
24:BA:2255:G:N2	24:BA:2256:G:H1'	2.25	0.52
24:BA:2327:A:N7	24:BA:2388:A:N6	2.57	0.52
24:BA:2353:G:C6	24:BA:2365:G:N2	2.78	0.52
24:BA:2435:A:C2'	24:BA:2436:G:O5'	2.57	0.52
24:BA:247:G:N7	24:BA:249:C:O2	2.42	0.52
24:BA:2470:G:O6	24:BA:2481:G:C2	2.63	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2466:C:C4	24:BA:2485:G:C6	2.97	0.52
24:BA:251:A:C2'	24:BA:252:G:O5'	2.58	0.52
24:BA:2544:G:O2'	24:BA:2545:G:H5'	2.10	0.52
24:BA:2562:U:H2'	24:BA:2562:U:O2	2.10	0.52
24:BA:2568:C:O2'	24:BA:2569:G:H5'	2.10	0.52
24:BA:2507:C:C4'	24:BA:2573:C:N4	2.72	0.52
24:BA:2617:C:H2'	24:BA:2618:G:O5'	2.10	0.52
24:BA:221:A:O2'	24:BA:271(B):G:N1	2.43	0.52
24:BA:2730:C:H2'	24:BA:2731:G:H8	1.75	0.52
24:BA:2767:C:O2	24:BA:2768:C:C5	2.63	0.52
24:BA:2777:G:O5'	24:BA:2777:G:H8	1.93	0.52
24:BA:2776:A:C8	24:BA:2781:A:N7	2.77	0.52
24:BA:2844:G:H3'	24:BA:2845:G:H8	1.73	0.52
24:BA:2876:G:C2	24:BA:2877:G:N7	2.77	0.52
24:BA:30:G:C5	24:BA:31:C:C5	2.98	0.52
24:BA:45:G:H2'	24:BA:215:G:H2'	1.92	0.52
24:BA:506:G:O2'	24:BA:507:A:H8	1.91	0.52
24:BA:604:G:C2'	24:BA:605:C:O5'	2.57	0.52
24:BA:814:C:N3	24:BA:815:C:C5	2.78	0.52
24:BA:91:A:H2	24:BA:92:G:H5'	1.73	0.52
27:BD:246:PRO:HG2	27:BD:250:TRP:HB3	1.90	0.52
28:BE:5:LEU:HD23	28:BE:7:VAL:N	2.24	0.52
30:BG:36:LYS:NZ	30:BG:38:VAL:HG22	2.25	0.52
30:BG:55:LYS:HB3	30:BG:152:LEU:HD21	1.92	0.52
31:BH:153:LYS:HA	31:BH:162:ILE:H	1.74	0.52
31:BH:35:VAL:HG12	31:BH:71:LEU:CD2	2.38	0.52
24:BA:1007:C:O3'	34:BM:108:PRO:HG3	2.10	0.52
24:BA:2640:G:O3'	34:BM:75:TYR:CZ	2.63	0.52
36:BO:99:LEU:HD23	36:BO:100:LEU:H	1.74	0.52
36:BO:111:ARG:HD2	36:BO:129:ALA:HB2	1.89	0.52
36:BO:49:ARG:HG3	54:B7:52:LYS:CG	2.38	0.52
36:BO:77:ARG:CZ	36:BO:79:ARG:HG2	2.40	0.52
38:BQ:43:GLU:OE2	38:BQ:43:GLU:HA	2.10	0.52
38:BQ:73:VAL:O	38:BQ:76:VAL:N	2.43	0.52
39:BR:39:ILE:O	39:BR:47:THR:CG2	2.58	0.52
40:BS:28:VAL:HG11	40:BS:90:GLN:HB2	1.92	0.52
24:BA:534:U:OP1	41:BT:24:TYR:CE2	2.62	0.52
41:BT:31:SER:C	41:BT:35:ALA:HB2	2.29	0.52
41:BT:59:ARG:O	41:BT:62:ILE:CB	2.48	0.52
43:BV:74:ALA:HB2	43:BV:106:ILE:H	1.74	0.52
43:BV:74:ALA:HB1	43:BV:105:VAL:CB	2.40	0.52
44:BW:31:HIS:CD2	44:BW:31:HIS:C	2.83	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:BX:19:LYS:C	45:BX:21:LYS:H	2.12	0.52
46:BY:99:TYR:CD1	46:BY:126:VAL:CG2	2.93	0.52
46:BY:29:TYR:CE2	46:BY:72:ARG:NH1	2.76	0.52
46:BY:26:GLY:O	46:BY:37:VAL:O	2.28	0.52
24:BA:2602:A:O2'	47:BZ:1:MET:HB2	2.10	0.52
24:BA:2603:G:OP2	47:BZ:1:MET:SD	2.67	0.52
3:AD:54:U:OP2	3:AD:55:U:C4	2.62	0.52
26:BC:161:ILE:C	26:BC:161:ILE:HD12	2.31	0.52
26:BC:195:ALA:O	26:BC:199:HIS:ND1	2.30	0.52
26:BC:54:SER:HA	26:BC:57:ASN:ND2	2.25	0.52
24:BA:1510:A:N3	24:BA:1511:A:C2	2.77	0.52
34:BM:6:PRO:HB3	34:BM:41:ASP:HB3	1.92	0.52
1:AA:1118:C:C4	1:AA:1156:G:N2	2.78	0.52
1:AA:1134:G:N2	1:AA:1136:U:O4	2.42	0.52
1:AA:1202:G:C2'	1:AA:1203:C:O5'	2.58	0.52
1:AA:977:A:N6	1:AA:1224:G:OP1	2.42	0.52
1:AA:124:G:OP1	1:AA:310:G:N2	2.33	0.52
1:AA:1251:A:H2'	1:AA:1252:A:C5	2.45	0.52
1:AA:1406:U:H2'	1:AA:1407:C:O5'	2.09	0.52
1:AA:1430:C:N3	1:AA:1471:G:C2	2.78	0.52
1:AA:186:C:H2'	1:AA:186(A):C:C6	2.44	0.52
1:AA:304:U:O2'	1:AA:305:G:H5'	2.10	0.52
1:AA:390:C:N4	1:AA:391:G:O6	2.43	0.52
1:AA:458:C:N4	1:AA:464:G:C6	2.78	0.52
1:AA:527:G:N2	1:AA:528:C:C2	2.77	0.52
1:AA:533:A:O4'	1:AA:533:A:OP2	2.27	0.52
1:AA:671:G:C2	1:AA:672:U:H1'	2.44	0.52
1:AA:675:A:N3	13:AN:116:HIS:HB2	2.25	0.52
1:AA:754:C:H1'	17:AR:69:TYR:CG	2.44	0.52
1:AA:920:U:O2'	1:AA:921:U:H5'	2.10	0.52
1:AA:978:A:H3'	1:AA:978:A:C8	2.44	0.52
1:AA:996:A:C2	1:AA:997:U:C5	2.98	0.52
3:AB:34:G:OP1	3:AB:34:G:H8	1.93	0.52
3:AB:74:C:C5	24:BA:2556:C:N1	2.78	0.52
3:AC:65:G:C6	3:AC:66:U:C4	2.98	0.52
4:AE:123:ALA:O	4:AE:124:SER:O	2.28	0.52
4:AE:115:LEU:CD2	4:AE:149:LEU:HD22	2.36	0.52
6:AG:171:GLY:HA3	6:AG:173:TRP:CZ3	2.44	0.52
7:AH:47:LYS:H	7:AH:57:LYS:CE	2.23	0.52
7:AH:71:LEU:HD21	7:AH:74:GLY:N	2.24	0.52
1:AA:1240:U:C1'	9:AJ:42:ILE:HD11	2.39	0.52
10:AK:100:ILE:HG23	10:AK:121:ASP:HA	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AK:102:ARG:HH21	10:AK:105:ARG:HA	1.74	0.52
10:AK:49:GLU:OE1	10:AK:60:ARG:HB3	2.09	0.52
11:AL:7:THR:CG2	11:AL:9:ARG:HH11	2.22	0.52
12:AM:28:ARG:HG2	12:AM:28:ARG:NH1	2.24	0.52
12:AM:5:ARG:NH2	12:AM:73:ASP:OD2	2.43	0.52
13:AN:80:VAL:HG22	13:AN:81:ASP:N	2.25	0.52
13:AN:84:VAL:O	13:AN:84:VAL:HG23	2.09	0.52
17:AR:78:TYR:C	17:AR:78:TYR:HD2	2.14	0.52
19:AT:75:ARG:HH12	19:AT:77:VAL:CG2	2.23	0.52
1:AA:986:A:O2'	21:AV:55:LYS:HG3	2.09	0.52
22:AW:51:GLU:HB3	22:AW:54:LYS:HZ1	1.75	0.52
1:AA:263:A:H5'	22:AW:75:ASN:HD21	1.75	0.52
48:B1:27:LEU:HD21	48:B1:49:LYS:N	2.25	0.52
49:B2:13:ILE:CG2	49:B2:14:GLY:N	2.66	0.52
52:B5:48:VAL:HG22	52:B5:49:HIS:N	2.25	0.52
24:BA:592:G:HO2'	54:B7:2:PRO:HA	1.70	0.52
24:BA:1075:C:O2	24:BA:1075:C:C2'	2.58	0.52
24:BA:1107:G:O5'	24:BA:1107:G:H8	1.93	0.52
24:BA:1005:C:C5	24:BA:1142(A):A:O3'	2.63	0.52
24:BA:1176:G:C2'	24:BA:1177:A:H5'	2.34	0.52
24:BA:1256:G:C6	24:BA:1257:C:C4	2.98	0.52
24:BA:1263:U:H4'	51:B4:10:LYS:HD3	1.92	0.52
24:BA:1358:G:C8	24:BA:1371:G:N1	2.78	0.52
24:BA:1540:G:H2'	24:BA:1541:U:C4'	2.40	0.52
24:BA:1607:C:H2'	24:BA:1607:C:O2	2.09	0.52
24:BA:1627:G:H2'	24:BA:1627:G:N3	2.24	0.52
24:BA:1632:A:O5'	24:BA:1632:A:C8	2.63	0.52
24:BA:1677:A:C2	24:BA:1678:G:C4	2.97	0.52
24:BA:1683:C:H6	24:BA:1683:C:O5'	1.93	0.52
24:BA:1683:C:C2	24:BA:1684:C:H5	2.25	0.52
24:BA:1764:G:C2'	24:BA:1765:C:O5'	2.57	0.52
24:BA:1803:A:O3'	27:BD:257:LEU:HD13	2.10	0.52
24:BA:1813:G:H5''	24:BA:1814:G:OP2	2.09	0.52
24:BA:1819:A:N7	27:BD:179:SER:HB3	2.25	0.52
24:BA:1844:C:C2	24:BA:1845:G:C8	2.98	0.52
24:BA:1955:U:H3'	24:BA:1956:U:H5	1.74	0.52
24:BA:1997:G:C6	24:BA:1998:G:C6	2.97	0.52
24:BA:2093:G:H2'	24:BA:2094:G:H5'	1.92	0.52
24:BA:2216:G:O5'	24:BA:2216:G:C8	2.62	0.52
24:BA:2274:A:C5	24:BA:2276:G:C8	2.98	0.52
24:BA:2298:A:H62	24:BA:2318:G:H21	1.58	0.52
24:BA:2408:U:C2	24:BA:2409:G:C8	2.98	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1954:G:N3	24:BA:2551:C:H4'	2.25	0.52
24:BA:2744:G:O2'	24:BA:2745:C:H5'	2.09	0.52
24:BA:2848:G:H2'	40:BS:99:LEU:HD21	1.92	0.52
24:BA:324:A:C2	24:BA:325:G:C1'	2.93	0.52
24:BA:565:C:N3	24:BA:566:U:N3	2.58	0.52
24:BA:572:A:C8	24:BA:573:G:C4	2.98	0.52
24:BA:716:A:C8	24:BA:717:G:O4'	2.63	0.52
24:BA:729:G:H2'	24:BA:730:C:C1'	2.40	0.52
24:BA:744:G:O6	24:BA:745:G:O6	2.27	0.52
24:BA:819:A:H2'	24:BA:820:A:H8	1.69	0.52
24:BA:893:C:C2	24:BA:894:C:C5	2.98	0.52
24:BA:90:U:OP1	24:BA:90:U:C6	2.63	0.52
24:BA:946:G:C6	24:BA:972:G:N2	2.76	0.52
25:BB:30:C:O4'	25:BB:58:A:C2	2.62	0.52
25:BB:85:G:C4	25:BB:92:G:N2	2.78	0.52
27:BD:211:ARG:C	27:BD:215:LEU:HD12	2.30	0.52
27:BD:244:ARG:HB3	27:BD:252:TRP:CD1	2.44	0.52
27:BD:250:TRP:CA	27:BD:250:TRP:CE3	2.92	0.52
27:BD:5:LYS:O	27:BD:29:PRO:HD3	2.09	0.52
28:BE:13:ARG:O	28:BE:13:ARG:HD2	2.09	0.52
30:BG:174:GLU:CG	30:BG:175:LEU:N	2.73	0.52
30:BG:47:LYS:CD	30:BG:49:ASP:OD2	2.53	0.52
31:BH:122:THR:O	31:BH:133:VAL:CG2	2.56	0.52
31:BH:107:VAL:HG11	31:BH:152:ARG:HD2	1.92	0.52
32:BK:4:ILE:HD11	32:BK:39:ALA:CA	2.40	0.52
33:BL:121:GLU:HB3	33:BL:125:ARG:CZ	2.40	0.52
33:BL:26:ALA:O	33:BL:30:HIS:HB3	2.09	0.52
33:BL:60:TYR:CD2	33:BL:67:PHE:HE1	2.28	0.52
34:BM:18:ALA:H	34:BM:21:LYS:HD2	1.74	0.52
34:BM:55:VAL:HB	34:BM:130:HIS:NE2	2.23	0.52
35:BN:113:LYS:NZ	35:BN:117:LEU:HB2	2.25	0.52
35:BN:22:ILE:HD12	35:BN:40:VAL:HG21	1.91	0.52
24:BA:1952:A:C2	35:BN:22:ILE:HG12	2.39	0.52
36:BO:124:LYS:HD2	36:BO:142:GLY:O	2.10	0.52
37:BP:47:ILE:O	37:BP:48:GLU:C	2.47	0.52
24:BA:872:A:O2'	37:BP:66:ILE:HG12	2.09	0.52
38:BQ:75:LEU:HD23	38:BQ:78:LYS:CB	2.40	0.52
40:BS:104:ASN:HA	40:BS:107:ASP:OD2	2.10	0.52
40:BS:31:SER:OG	40:BS:91:ARG:NH1	2.43	0.52
41:BT:26:GLY:O	41:BT:27:LEU:HD12	2.10	0.52
24:BA:515:A:H5'	41:BT:32:PHE:HZ	1.74	0.52
41:BT:2:PRO:O	41:BT:3:ARG:O	2.28	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BT:59:ARG:O	41:BT:60:LEU:C	2.47	0.52
42:BU:57:VAL:CG1	42:BU:58:VAL:H	2.02	0.52
42:BU:20:LEU:CB	42:BU:95:LEU:HB3	2.40	0.52
44:BW:15:GLU:CA	44:BW:16:LYS:HE2	2.40	0.52
44:BW:50:LYS:HZ3	44:BW:85:PRO:CG	2.23	0.52
46:BY:111:VAL:HG22	46:BY:117:LEU:CG	2.32	0.52
46:BY:127:LYS:HD3	46:BY:165:VAL:H	1.75	0.52
46:BY:157:LEU:HD23	46:BY:158:PRO:N	2.24	0.52
46:BY:161:VAL:O	46:BY:162:GLU:CB	2.56	0.52
46:BY:123:ASP:H	46:BY:171:ILE:HD13	1.74	0.52
46:BY:29:TYR:O	46:BY:89:PHE:HD2	1.93	0.52
46:BY:30:ASN:CB	46:BY:90:VAL:HG23	2.27	0.52
47:BZ:42:GLY:O	47:BZ:57:PHE:HD2	1.92	0.52
47:BZ:56:ASP:OD2	47:BZ:58:THR:OG1	2.24	0.52
24:BA:2143:C:C4	24:BA:2144:U:O4	2.63	0.52
24:BA:2171:A:O2'	24:BA:2172:U:C6	2.56	0.52
26:BC:10:LEU:CD1	26:BC:32:LEU:HD23	2.40	0.52
26:BC:131:LEU:HB2	26:BC:137:LEU:HB2	1.92	0.52
26:BC:46:LYS:HD3	26:BC:46:LYS:O	2.10	0.52
24:BA:1511:A:H3'	24:BA:1511:A:C8	2.45	0.52
24:BA:274:G:N2	24:BA:274:G:OP2	2.42	0.52
24:BA:2182:G:C2	24:BA:2183:C:C2	2.97	0.52
26:BC:187:ASP:OD2	26:BC:187:ASP:C	2.48	0.52
2:A1:36:U:H6	2:A1:36:U:H5''	1.74	0.52
1:AA:1343:G:H2'	1:AA:1344:C:O4'	2.10	0.52
1:AA:1362(A):C:H5'	1:AA:1363:A:OP1	2.10	0.52
1:AA:259:G:N2	1:AA:260:G:N3	2.58	0.52
1:AA:263:A:C2'	1:AA:264:U:C5'	2.75	0.52
1:AA:254:G:N1	1:AA:273:A:C6	2.78	0.52
1:AA:280:C:C5'	1:AA:281:G:OP2	2.57	0.52
1:AA:355:C:N4	1:AA:356:A:N6	2.56	0.52
1:AA:381:C:H2'	1:AA:381:C:O2	2.10	0.52
1:AA:390:C:C2	1:AA:391:G:C8	2.97	0.52
1:AA:429:U:H1'	1:AA:430:A:H5''	1.90	0.52
1:AA:465:A:H61	18:AS:82:GLN:HE22	1.58	0.52
1:AA:485:G:O2'	1:AA:486:U:H6	1.93	0.52
1:AA:558:G:O5'	1:AA:559:A:C3'	2.58	0.52
1:AA:62:U:H4'	1:AA:385:C:O2	2.10	0.52
1:AA:717:C:O2'	1:AA:718:G:P	2.68	0.52
1:AA:735:C:O2'	20:AU:75:ILE:CD1	2.57	0.52
1:AA:812:C:H4'	1:AA:813:U:H6	1.75	0.52
1:AA:854:G:H5''	1:AA:871:U:N3	2.20	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:924:C:O2'	1:AA:925:G:H5'	2.10	0.52
1:AA:93:U:H2'	1:AA:95:G:H8	1.71	0.52
1:AA:954:G:H2'	1:AA:955:U:C6	2.45	0.52
1:AA:978:A:C8	1:AA:980:C:N4	2.78	0.52
3:AC:16:U:H4'	3:AC:18:G:C5'	2.37	0.52
3:AC:60:U:OP1	3:AC:61:C:C5	2.63	0.52
3:AC:75:C:O5'	3:AC:76:A:P	2.68	0.52
4:AE:105:PHE:O	4:AE:109:SER:OG	2.21	0.52
4:AE:238:LEU:HD23	4:AE:238:LEU:O	2.09	0.52
4:AE:44:LEU:O	4:AE:45:GLN:C	2.48	0.52
5:AF:127:ARG:C	5:AF:128:PHE:CD1	2.84	0.52
6:AG:30:LYS:HG2	6:AG:35:ARG:CD	2.40	0.52
7:AH:72:GLN:HE22	7:AH:144:THR:HG23	1.74	0.52
8:AI:48:LEU:CD1	8:AI:50:TYR:O	2.55	0.52
9:AJ:140:ASP:O	9:AJ:144:MET:HB2	2.10	0.52
9:AJ:88:PRO:HA	9:AJ:89:MET:HE3	1.93	0.52
10:AK:91:ARG:C	10:AK:92:ARG:HD2	2.31	0.52
11:AL:82:ALA:HB1	11:AL:101:PHE:CE1	2.45	0.52
1:AA:1188:A:C5'	12:AM:61:GLU:OE2	2.54	0.52
14:AO:104:VAL:O	14:AO:106:ASP:N	2.43	0.52
14:AO:60:LEU:CD2	14:AO:60:LEU:C	2.77	0.52
15:AP:19:LEU:O	15:AP:22:ILE:HG13	2.10	0.52
15:AP:23:TYR:HB3	15:AP:67:GLU:CA	2.19	0.52
17:AR:52:SER:O	17:AR:53:HIS:C	2.46	0.52
17:AR:17:ARG:HH11	17:AR:77:ARG:HD3	1.72	0.52
18:AS:18:ARG:NH1	18:AS:32:TYR:CE2	2.78	0.52
18:AS:20:VAL:HG11	18:AS:32:TYR:CD2	2.44	0.52
18:AS:57:ARG:HA	18:AS:60:LEU:HD12	1.92	0.52
19:AT:4:LYS:C	19:AT:5:VAL:HG23	2.31	0.52
21:AV:27:GLU:OE2	21:AV:29:ARG:HA	2.10	0.52
21:AV:62:ILE:CG1	21:AV:67:VAL:HG22	2.38	0.52
24:BA:388:G:OP2	50:B3:23:GLU:CG	2.58	0.52
52:B5:19:ARG:HH12	52:B5:43:CYS:CB	2.05	0.52
52:B5:22:ALA:O	52:B5:23:THR:OG1	2.24	0.52
52:B5:24:GLU:CD	54:B7:37:SER:HB2	2.30	0.52
24:BA:592:G:O2'	54:B7:3:LYS:N	2.40	0.52
24:BA:1014:U:HO2'	24:BA:1015:G:H5'	1.70	0.52
24:BA:1069:A:H5'	24:BA:1070:A:C3'	2.40	0.52
24:BA:1078:U:C2	24:BA:1088:A:H1'	2.44	0.52
24:BA:1148:A:N1	24:BA:1149:G:C5	2.77	0.52
24:BA:119:A:O2'	24:BA:120:U:P	2.67	0.52
24:BA:1306:C:H2'	24:BA:1307:A:O4'	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1288:U:C2	24:BA:1327:C:C2	2.97	0.52
24:BA:1360:A:C2'	24:BA:1361:G:H5'	2.40	0.52
24:BA:1358:G:N1	24:BA:1372:U:OP2	2.36	0.52
24:BA:1440:G:H2'	24:BA:1441:G:H8	1.75	0.52
24:BA:1442:G:C2	24:BA:1443:G:C5	2.98	0.52
24:BA:1731:G:N3	24:BA:1731:G:H3'	2.24	0.52
24:BA:1802:A:C2'	24:BA:1802:A:N3	2.67	0.52
24:BA:1818:U:C4	27:BD:156:ALA:CB	2.92	0.52
24:BA:1879:C:H2'	24:BA:1880:C:O4'	2.09	0.52
24:BA:1911:U:C2'	24:BA:1912:A:C5'	2.77	0.52
24:BA:1921:G:O2'	24:BA:1922:G:H5'	2.10	0.52
24:BA:2256:G:N2	24:BA:2275:C:N4	2.58	0.52
24:BA:2287:A:C2'	24:BA:2288:A:O5'	2.58	0.52
24:BA:2369:A:N6	24:BA:2382:G:N2	2.57	0.52
24:BA:2432:A:C8	24:BA:2433:A:C5	2.98	0.52
24:BA:2447:G:H3'	24:BA:2499:C:OP2	2.10	0.52
24:BA:2525:G:O2'	24:BA:2741:A:C2	2.63	0.52
24:BA:2639:A:C5	24:BA:2778:A:C6	2.98	0.52
24:BA:2689:U:C2	24:BA:2713:A:N7	2.78	0.52
24:BA:270(Z):U:H3	24:BA:271(C):U:H1'	1.73	0.52
24:BA:2767:C:N3	24:BA:2768:C:N4	2.57	0.52
24:BA:2886:G:N2	24:BA:2887:U:H1'	2.26	0.52
24:BA:2811:G:H22	24:BA:2891:G:H1'	1.75	0.52
24:BA:223:A:C6	24:BA:408:G:O4'	2.62	0.52
24:BA:415:A:N1	24:BA:416:C:O2	2.43	0.52
24:BA:724:U:C2'	24:BA:725:G:C5'	2.88	0.52
24:BA:740:U:C6	24:BA:741:G:N7	2.78	0.52
24:BA:761:A:H5''	24:BA:762:U:OP1	2.09	0.52
24:BA:763:G:C6	24:BA:765:G:C5	2.98	0.52
24:BA:829:A:C5'	24:BA:830:G:H5''	2.36	0.52
24:BA:916:G:O2'	25:BB:99:A:H1'	2.10	0.52
24:BA:972:G:OP2	24:BA:972:G:C8	2.62	0.52
25:BB:81:G:C6	25:BB:82:G:C5	2.97	0.52
27:BD:182:LEU:N	27:BD:270:ILE:HG13	2.25	0.52
27:BD:246:PRO:O	27:BD:247:ALA:O	2.28	0.52
28:BE:103:ASP:O	28:BE:104:VAL:HG22	2.09	0.52
28:BE:105:THR:HB	28:BE:166:THR:HG1	1.74	0.52
28:BE:67:PHE:O	28:BE:70:ALA:N	2.43	0.52
28:BE:98:PRO:HG3	28:BE:175:VAL:HG22	1.91	0.52
29:BF:121:GLY:CA	29:BF:191:ARG:NE	2.73	0.52
29:BF:22:ALA:HB1	29:BF:115:ALA:HB2	1.92	0.52
29:BF:46:ARG:NE	29:BF:46:ARG:HA	2.25	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:49:ALA:HB3	29:BF:94:PRO:CA	2.40	0.52
29:BF:53:THR:O	29:BF:56:GLU:OE1	2.28	0.52
30:BG:19:LEU:H	30:BG:19:LEU:CD1	2.22	0.52
30:BG:38:VAL:O	30:BG:157:ILE:HG13	2.09	0.52
30:BG:74:LYS:CE	30:BG:75:LYS:HE3	2.39	0.52
31:BH:98:LEU:C	31:BH:100:GLY:H	2.12	0.52
31:BH:136:ILE:CG2	31:BH:137:ASP:H	2.20	0.52
31:BH:94:TYR:O	31:BH:95:ARG:HD2	2.10	0.52
33:BL:86:LYS:O	33:BL:87:GLY:C	2.49	0.52
34:BM:44:PRO:HG2	34:BM:45:ASN:OD1	2.10	0.52
34:BM:74:ARG:C	34:BM:76:SER:N	2.54	0.52
34:BM:85:ILE:HD12	34:BM:85:ILE:H	1.73	0.52
35:BN:117:LEU:HD23	35:BN:118:ALA:CA	2.40	0.52
35:BN:63:VAL:HG12	35:BN:99:PHE:HZ	1.75	0.52
36:BO:126:VAL:CA	36:BO:146:VAL:H	2.22	0.52
36:BO:15:ARG:HH22	36:BO:16:ARG:HB2	1.71	0.52
36:BO:76:LYS:HE2	36:BO:81:GLN:NE2	2.25	0.52
37:BP:39:PRO:HA	37:BP:127:ILE:HG21	1.91	0.52
37:BP:127:ILE:HD13	37:BP:129:THR:HG23	1.92	0.52
37:BP:57:HIS:O	37:BP:59:ARG:N	2.42	0.52
37:BP:22:LYS:CD	37:BP:99:PRO:HG3	2.25	0.52
38:BQ:34:ILE:CG2	38:BQ:35:THR:N	2.73	0.52
38:BQ:37:THR:HG23	38:BQ:40:LYS:CD	2.37	0.52
39:BR:66:ALA:O	39:BR:67:ARG:C	2.48	0.52
39:BR:69:VAL:HG13	39:BR:73:LEU:HD11	1.92	0.52
40:BS:104:ASN:CA	40:BS:108:ARG:HH12	2.23	0.52
42:BU:28:GLU:CG	42:BU:94:LEU:HB2	2.39	0.52
44:BW:12:VAL:HG22	44:BW:29:TRP:NE1	2.25	0.52
45:BX:37:VAL:CG1	45:BX:39:VAL:HB	2.40	0.52
37:BP:85:LYS:NZ	47:BZ:10:THR:OG1	2.37	0.52
47:BZ:50:ASN:O	47:BZ:62:LEU:CB	2.57	0.52
47:BZ:52:GLY:HA3	47:BZ:60:PHE:CE1	2.44	0.52
25:BB:11:C:P	47:BZ:74:ARG:HH12	2.32	0.52
3:AD:9:A:H5''	3:AD:10:G:OP2	2.10	0.52
24:BA:2168:G:H1'	24:BA:2170:A:N7	2.25	0.52
26:BC:138:PRO:HB3	26:BC:145:VAL:CG2	2.40	0.52
26:BC:192:PHE:CE1	26:BC:196:LEU:HD13	2.45	0.52
26:BC:36:LYS:O	26:BC:37:PHE:CG	2.63	0.52
24:BA:1116:C:OP2	24:BA:1116:C:C6	2.61	0.52
48:B1:6:GLU:O	48:B1:7:GLU:C	2.48	0.52
1:AA:1170:A:C8	1:AA:1171:G:C8	2.98	0.52
39:BR:33:LYS:CG	39:BR:54:LEU:HD21	2.39	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2670:A:C5'	28:BE:206:LYS:HZ3	2.23	0.52
24:BA:2183:C:O2	24:BA:2183:C:H2'	2.08	0.52
2:A1:28:G:H2'	2:A1:29:G:C8	2.45	0.51
2:A1:37:U:H2'	2:A1:38:U:C6	2.46	0.51
2:A1:46:U:N3	3:AB:34:G:C6	2.78	0.51
1:AA:1003:G:N2	1:AA:1038:C:H1'	2.24	0.51
1:AA:1065:U:HO2'	1:AA:1066:C:P	2.33	0.51
1:AA:1129:C:H4'	1:AA:1130:A:H8	1.74	0.51
1:AA:1230:C:H5''	11:AL:127:LYS:HE3	1.91	0.51
1:AA:1234:C:H4'	1:AA:1364:U:C1'	2.38	0.51
1:AA:1246:C:H2'	1:AA:1247:U:H6	1.75	0.51
1:AA:1278:U:H5'	1:AA:1279:A:C5'	2.40	0.51
1:AA:1319:A:O2'	1:AA:1321:C:N4	2.43	0.51
1:AA:946:A:O2'	1:AA:1333:A:H1'	2.10	0.51
1:AA:1396:A:O2'	1:AA:1397:C:H5''	2.10	0.51
1:AA:1401:G:H2'	1:AA:1402:C:C5'	2.40	0.51
1:AA:1404:C:O4'	1:AA:1499:A:N1	2.43	0.51
1:AA:246:A:O2'	1:AA:247:G:O5'	2.27	0.51
1:AA:475:G:C2	1:AA:476:G:C5	2.98	0.51
1:AA:583:A:H2'	1:AA:584:G:O4'	2.10	0.51
1:AA:587:G:N3	1:AA:755:G:N1	2.58	0.51
1:AA:626:U:O2'	1:AA:627:G:H5'	2.10	0.51
1:AA:642:A:N3	10:AK:113:SER:OG	2.32	0.51
1:AA:652:U:H1'	1:AA:653:A:C2	2.45	0.51
1:AA:667:G:OP2	1:AA:732:C:O2'	2.25	0.51
1:AA:686:U:H2'	1:AA:687:A:C8	2.45	0.51
1:AA:833:U:O2'	1:AA:834:C:H6	1.92	0.51
1:AA:961:U:C2'	1:AA:962:C:H5'	2.40	0.51
1:AA:971:G:N2	1:AA:1363:A:OP2	2.43	0.51
4:AE:16:HIS:O	4:AE:204:ASN:CB	2.55	0.51
5:AF:186:PHE:HB2	5:AF:199:LYS:HG2	1.92	0.51
5:AF:84:ILE:HD11	5:AF:88:ARG:HH21	1.76	0.51
6:AG:101:LEU:O	6:AG:104:VAL:N	2.43	0.51
6:AG:10:ARG:HH11	6:AG:11:LEU:HD23	1.74	0.51
1:AA:404:U:OP2	6:AG:118:ARG:NH1	2.42	0.51
6:AG:170:VAL:HG23	6:AG:176:LEU:CD2	2.38	0.51
6:AG:166:LYS:HD3	6:AG:178:VAL:CG1	2.39	0.51
6:AG:25:ARG:NH1	6:AG:30:LYS:HB3	2.25	0.51
9:AJ:77:SER:C	9:AJ:156:TRP:CZ2	2.83	0.51
9:AJ:68:ASN:O	9:AJ:135:VAL:HG13	2.10	0.51
10:AK:6:ILE:C	10:AK:6:ILE:CD1	2.79	0.51
11:AL:97:LYS:CE	11:AL:102:LEU:HD22	2.40	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AL:11:LYS:CB	11:AL:108:VAL:HG12	2.41	0.51
11:AL:113:LYS:NZ	11:AL:119:ALA:CB	2.72	0.51
9:AJ:16:LEU:HD12	11:AL:44:VAL:CG2	2.41	0.51
12:AM:5:ARG:CB	12:AM:5:ARG:CZ	2.88	0.51
13:AN:33:THR:HA	13:AN:38:ASN:O	2.10	0.51
14:AO:12:ARG:CZ	14:AO:12:ARG:CB	2.87	0.51
15:AP:20:THR:CG2	15:AP:26:GLY:HA2	2.40	0.51
15:AP:69:GLU:O	15:AP:70:LEU:C	2.49	0.51
15:AP:81:LEU:HA	15:AP:84:ILE:HD11	1.92	0.51
18:AS:6:LEU:CA	18:AS:18:ARG:O	2.56	0.51
18:AS:20:VAL:HG11	18:AS:32:TYR:HB2	1.89	0.51
19:AT:60:ILE:O	19:AT:62:SER:OG	2.26	0.51
19:AT:84:LEU:O	19:AT:87:LYS:N	2.43	0.51
13:AN:110:ASP:HB3	20:AU:85:LEU:HB3	1.92	0.51
22:AW:48:LYS:O	22:AW:49:ALA:C	2.48	0.51
1:AA:1305:G:H5'	23:AX:4:GLY:HA3	1.92	0.51
49:B2:5:LYS:NZ	49:B2:59:VAL:CG2	2.73	0.51
50:B3:65:ASP:O	50:B3:69:LYS:CG	2.46	0.51
24:BA:1264:G:O2'	51:B4:7:PRO:HG3	2.10	0.51
54:B7:1:MET:H3	54:B7:2:PRO:HD2	1.75	0.51
24:BA:1020:A:H2	24:BA:1140:C:H2'	1.71	0.51
24:BA:1069:A:H5''	24:BA:1070:A:O5'	2.10	0.51
24:BA:1157:G:C6	24:BA:1158:C:C4	2.98	0.51
24:BA:1223:C:O2'	24:BA:1225:C:H5	1.93	0.51
24:BA:1265:A:O4'	24:BA:1267:U:N3	2.43	0.51
24:BA:1272:A:O2'	24:BA:1273:U:P	2.68	0.51
24:BA:1307:A:H4'	24:BA:1379:A:H62	1.75	0.51
24:BA:1313:U:H2'	24:BA:1314:C:C5	2.45	0.51
24:BA:1366:A:H5'	50:B3:1:MET:N	2.25	0.51
24:BA:136:G:H2'	24:BA:137:C:C6	2.44	0.51
24:BA:1540:G:C6	24:BA:1541:U:H1'	2.44	0.51
24:BA:1591:G:C2	24:BA:1592:C:C4	2.99	0.51
24:BA:1650:G:C2'	24:BA:1651:G:O5'	2.58	0.51
24:BA:1657:C:P	28:BE:136:ARG:NH2	2.82	0.51
24:BA:1675:C:OP2	24:BA:1676:A:OP2	2.28	0.51
24:BA:1803:A:C8	24:BA:1804:C:C5	2.98	0.51
24:BA:1853:A:N3	24:BA:2233:U:O2'	2.42	0.51
24:BA:1859:A:H61	24:BA:1883:G:C2'	2.23	0.51
24:BA:1948:G:C4	24:BA:1959:G:C2	2.99	0.51
24:BA:200:U:O4	24:BA:201:C:H1'	2.11	0.51
24:BA:210:C:O2'	24:BA:211:A:H5'	2.10	0.51
24:BA:2197:U:O2'	24:BA:2198:A:O4'	2.28	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2262:U:O4	47:BZ:15:ASP:O	2.28	0.51
24:BA:2291:U:O2'	24:BA:2374:C:H1'	2.10	0.51
24:BA:2393:A:H4'	36:BO:56:SER:H	1.74	0.51
24:BA:2246:G:H1'	24:BA:2426:A:C2	2.45	0.51
24:BA:248:G:N2	24:BA:2431:U:H5'	2.25	0.51
24:BA:2476:A:C8	24:BA:2477:C:C6	2.98	0.51
24:BA:2537:U:H2'	24:BA:2538:C:H6	1.71	0.51
24:BA:2544:G:C2'	24:BA:2545:G:H5'	2.41	0.51
24:BA:2564:A:C4	24:BA:2565:A:N7	2.78	0.51
24:BA:2682:U:H2'	24:BA:2683:C:C5'	2.40	0.51
24:BA:2773:C:P	28:BE:164:ARG:NH2	2.83	0.51
24:BA:2807:G:N3	24:BA:2807:G:H2'	2.25	0.51
24:BA:2884:U:C2'	24:BA:2885:C:H5'	2.40	0.51
24:BA:299:A:H5''	24:BA:300:A:OP2	2.10	0.51
24:BA:330:A:HO2'	24:BA:1210:A:N6	2.07	0.51
24:BA:371:A:C2	24:BA:372:G:N1	2.78	0.51
24:BA:447:A:O2'	24:BA:449:A:N6	2.43	0.51
24:BA:46:C:C5	24:BA:215:G:H8	2.28	0.51
24:BA:308:G:N7	24:BA:501:A:C4	2.78	0.51
24:BA:617:G:OP2	29:BF:40:GLN:NE2	2.44	0.51
24:BA:675:A:C5	24:BA:804:A:C2	2.98	0.51
24:BA:804:A:O2'	24:BA:806:C:N3	2.38	0.51
24:BA:872:A:O2'	37:BP:66:ILE:HD13	2.09	0.51
24:BA:569:U:H1'	24:BA:947:G:O4'	2.10	0.51
24:BA:980:A:C4	24:BA:981:A:C2	2.98	0.51
25:BB:99:A:C6	25:BB:100:G:C6	2.97	0.51
25:BB:14:U:C6	25:BB:14:U:C3'	2.94	0.51
27:BD:143:HIS:NE2	27:BD:192:THR:HG21	2.25	0.51
27:BD:250:TRP:HA	27:BD:250:TRP:HE3	1.71	0.51
27:BD:63:ARG:HG2	27:BD:65:ILE:CG1	2.40	0.51
27:BD:9:TYR:OH	27:BD:91:ARG:CZ	2.56	0.51
28:BE:104:VAL:CG1	28:BE:105:THR:H	2.23	0.51
28:BE:127:ASP:O	28:BE:128:SER:CB	2.59	0.51
28:BE:152:LYS:CD	28:BE:152:LYS:O	2.58	0.51
28:BE:14:ILE:CG2	28:BE:19:ARG:HA	2.40	0.51
28:BE:12:THR:CA	28:BE:22:PRO:HD2	2.39	0.51
28:BE:57:LYS:O	28:BE:58:ARG:NH2	2.43	0.51
29:BF:8:GLN:HB3	29:BF:18:ARG:HB2	1.93	0.51
29:BF:197:ASP:CA	29:BF:200:GLU:CG	2.71	0.51
29:BF:46:ARG:HE	29:BF:47:GLY:N	2.07	0.51
30:BG:125:PHE:HD1	30:BG:132:ASN:N	2.08	0.51
24:BA:2304:G:OP1	30:BG:132:ASN:ND2	2.43	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:BG:14:GLU:CD	30:BG:15:VAL:N	2.64	0.51
30:BG:41:GLN:OE1	30:BG:155:MET:HE3	2.10	0.51
33:BL:38:VAL:C	33:BL:41:PHE:HB2	2.27	0.51
34:BM:107:LEU:HD13	34:BM:117:PHE:CD2	2.45	0.51
35:BN:12:ASP:N	35:BN:14:THR:HG22	2.24	0.51
35:BN:15:GLY:N	35:BN:52:VAL:HG21	2.25	0.51
24:BA:598:G:H1'	36:BO:14:LYS:HG2	1.90	0.51
37:BP:12:GLN:O	37:BP:12:GLN:NE2	2.43	0.51
38:BQ:105:ARG:C	38:BQ:107:ASP:H	2.13	0.51
38:BQ:41:ALA:O	38:BQ:42:LYS:C	2.48	0.51
38:BQ:5:LYS:HZ1	38:BQ:6:SER:CA	2.23	0.51
39:BR:31:SER:HB3	39:BR:34:HIS:CB	2.39	0.51
39:BR:70:GLY:O	39:BR:71:ARG:C	2.47	0.51
24:BA:2848:G:O4'	40:BS:99:LEU:HD11	2.10	0.51
41:BT:81:HIS:CB	41:BT:117:GLN:NE2	2.72	0.51
34:BM:4:TYR:HB3	41:BT:64:ARG:HH22	1.74	0.51
41:BT:84:LYS:HA	41:BT:84:LYS:CE	2.40	0.51
43:BV:42:ARG:CG	43:BV:43:GLY:N	2.73	0.51
43:BV:18:ARG:CD	43:BV:76:VAL:HG12	2.36	0.51
44:BW:12:VAL:CG2	44:BW:28:PHE:HA	2.36	0.51
45:BX:97:ARG:CB	45:BX:101:LYS:HG2	2.41	0.51
46:BY:120:ILE:HB	46:BY:123:ASP:OD1	2.09	0.51
46:BY:127:LYS:HA	46:BY:164:ALA:CB	2.40	0.51
47:BZ:19:LYS:CG	47:BZ:20:ARG:N	2.71	0.51
47:BZ:26:TYR:CE1	47:BZ:29:GLN:NE2	2.78	0.51
3:AD:47:U:C2	3:AD:48:C:H5'	2.45	0.51
24:BA:2127:G:C4	24:BA:2162:G:C2	2.98	0.51
26:BC:171:ILE:CD1	26:BC:196:LEU:HD11	2.40	0.51
26:BC:59:ARG:CG	26:BC:60:GLY:N	2.69	0.51
48:B1:7:GLU:H	48:B1:7:GLU:CD	2.13	0.51
1:AA:233:C:C2'	1:AA:234:C:H5'	2.39	0.51
1:AA:73:G:C6	1:AA:74:C:C4	2.98	0.51
2:A1:10:U:C2	2:A1:12:U:OP2	2.63	0.51
1:AA:1048:G:O3'	1:AA:1049:U:H3'	2.10	0.51
1:AA:1117:G:C2	1:AA:1184:G:C2	2.98	0.51
1:AA:1202:G:N3	1:AA:1203:C:C6	2.78	0.51
1:AA:1273:G:H2'	1:AA:1274:G:O4'	2.09	0.51
1:AA:1293:G:C4	1:AA:1294:G:C8	2.98	0.51
1:AA:1500:A:H2'	1:AA:1501:C:C6	2.45	0.51
1:AA:1511:G:O2'	1:AA:1512:U:H5'	2.10	0.51
1:AA:1539:C:H2'	1:AA:1540:U:O4'	2.09	0.51
1:AA:279:A:C1'	1:AA:281:G:C4	2.90	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:291:C:C3'	1:AA:305:G:N2	2.64	0.51
1:AA:317:G:C2'	1:AA:318:G:H5'	2.39	0.51
1:AA:35:G:C6	1:AA:36:C:C4	2.97	0.51
1:AA:413:G:N2	1:AA:428:G:O2'	2.41	0.51
1:AA:503:C:C2	1:AA:504:C:C5	2.98	0.51
1:AA:687:A:N3	1:AA:704:A:C6	2.78	0.51
1:AA:689:C:H2'	1:AA:690:G:H1'	1.91	0.51
1:AA:945:G:N1	1:AA:946:A:N7	2.57	0.51
1:AA:947:G:H21	1:AA:948:C:H1'	1.75	0.51
1:AA:953:G:H1'	15:AP:126:LYS:N	2.25	0.51
1:AA:961:U:C5	1:AA:983:A:C6	2.99	0.51
3:AD:74:C:OP1	50:B3:22:ILE:HG12	2.09	0.51
4:AE:67:THR:HB	4:AE:155:LEU:CD2	2.37	0.51
4:AE:69:LEU:CD1	4:AE:70:PHE:N	2.74	0.51
4:AE:91:PRO:CG	4:AE:155:LEU:H	2.23	0.51
5:AF:12:LEU:CD2	16:AQ:57:ARG:CG	2.80	0.51
5:AF:142:MET:C	5:AF:142:MET:SD	2.88	0.51
5:AF:27:LYS:O	5:AF:28:GLN:HB3	2.11	0.51
6:AG:91:SER:O	6:AG:92:VAL:C	2.49	0.51
7:AH:37:ARG:HG2	7:AH:112:LEU:O	2.11	0.51
8:AI:51:PRO:HA	8:AI:55:ASP:O	2.10	0.51
8:AI:40:VAL:HA	8:AI:63:TYR:HD1	1.74	0.51
9:AJ:111:ARG:HD2	9:AJ:123:GLU:CB	2.36	0.51
9:AJ:16:LEU:O	9:AJ:17:VAL:HG23	2.09	0.51
9:AJ:74:GLU:O	9:AJ:88:PRO:CA	2.53	0.51
9:AJ:99:LEU:O	9:AJ:99:LEU:HD23	2.10	0.51
10:AK:10:LEU:HD11	10:AK:85:ARG:CD	2.26	0.51
10:AK:14:ARG:HB3	10:AK:83:ILE:HG21	1.92	0.51
10:AK:97:VAL:HG12	10:AK:99:GLU:OE2	2.10	0.51
1:AA:1370:G:H5''	11:AL:12:GLU:HG3	1.92	0.51
9:AJ:16:LEU:HB3	11:AL:41:VAL:HG12	1.93	0.51
14:AO:118:SER:O	14:AO:121:GLY:HA2	2.09	0.51
18:AS:30:GLY:C	18:AS:31:LYS:O	2.45	0.51
18:AS:73:LEU:C	18:AS:73:LEU:CD1	2.76	0.51
20:AU:36:ASN:OD1	20:AU:39:VAL:HB	2.11	0.51
50:B3:31:ILE:HD13	50:B3:31:ILE:N	2.10	0.51
24:BA:2046:G:H5'	51:B4:22:HIS:HB2	1.93	0.51
24:BA:2884:U:O4	51:B4:40:LYS:HE2	2.10	0.51
52:B5:8:LYS:C	52:B5:28:ARG:HB3	2.29	0.51
52:B5:31:PRO:O	52:B5:34:LEU:HG	2.09	0.51
53:B6:40:TRP:O	53:B6:41:ARG:CB	2.58	0.51
53:B6:5:TRP:CE2	53:B6:7:PRO:HD3	2.45	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:247:G:C2	54:B7:8:LYS:HD2	2.45	0.51
24:BA:1064:C:H3'	24:BA:1065:U:C5	2.45	0.51
24:BA:1222:C:C4	24:BA:1227:A:N6	2.79	0.51
24:BA:1236:G:O2'	24:BA:1237:A:O5'	2.28	0.51
24:BA:1319:G:C6	24:BA:1334:G:C6	2.97	0.51
24:BA:1364:G:O6	50:B3:2:LYS:NZ	2.40	0.51
24:BA:152:G:C2	24:BA:153:C:C2	2.98	0.51
24:BA:1597:A:O3'	24:BA:1598:C:H6	1.93	0.51
24:BA:1754:C:C2	24:BA:1755:A:C1'	2.93	0.51
24:BA:1764:G:H2'	24:BA:1765:C:O5'	2.08	0.51
24:BA:1788:C:C4	24:BA:1789:A:H8	2.20	0.51
24:BA:1838:C:C2'	24:BA:1898:U:O4	2.58	0.51
24:BA:1930:G:O2'	24:BA:1931:U:P	2.67	0.51
24:BA:1936:A:H1'	24:BA:1940:U:N3	2.24	0.51
24:BA:2243:U:C2	24:BA:2244:U:C6	2.98	0.51
24:BA:2384:G:OP2	24:BA:2384:G:C8	2.54	0.51
24:BA:2424:C:H5''	24:BA:2425:A:H5'	1.93	0.51
24:BA:2426:A:H3'	24:BA:2427:C:C5'	2.40	0.51
24:BA:1938:A:H2	24:BA:2590:A:O4'	1.93	0.51
24:BA:2792:G:N2	24:BA:2793:G:C4	2.77	0.51
24:BA:302:C:H2'	24:BA:303:U:C6	2.45	0.51
24:BA:311:A:C2	24:BA:331:A:H5''	2.45	0.51
24:BA:360:G:C2'	24:BA:361:G:H5'	2.40	0.51
24:BA:541:C:H6	24:BA:541:C:OP2	1.92	0.51
24:BA:546:C:N3	24:BA:547:A:C6	2.78	0.51
24:BA:584:C:C2'	24:BA:585:G:H5'	2.40	0.51
24:BA:59:U:C3'	24:BA:60:G:H5''	2.40	0.51
24:BA:637:A:H2	24:BA:651:G:C4'	2.23	0.51
24:BA:675:A:O2'	24:BA:676:A:H5'	2.10	0.51
24:BA:730:C:C3'	24:BA:731:C:H5'	2.40	0.51
24:BA:775:G:N2	24:BA:787:U:O2'	2.43	0.51
24:BA:815:C:C2'	24:BA:816:C:C5'	2.88	0.51
24:BA:836:G:C6	24:BA:837:C:C4	2.98	0.51
24:BA:973:A:O2'	24:BA:974:G:H5'	2.08	0.51
24:BA:975:G:N3	24:BA:975:G:C2'	2.73	0.51
25:BB:13:A:N6	25:BB:70:C:H5'	2.25	0.51
25:BB:24:G:C2	25:BB:27:C:N4	2.77	0.51
25:BB:37:C:H3'	25:BB:38:C:C6	2.45	0.51
25:BB:85:G:C2	25:BB:92:G:N3	2.77	0.51
27:BD:201:HIS:CD2	27:BD:202:LYS:CE	2.92	0.51
27:BD:244:ARG:O	27:BD:252:TRP:CG	2.63	0.51
27:BD:60:ARG:HG2	27:BD:62:TYR:OH	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2578:G:N7	28:BE:140:SER:HB2	2.25	0.51
28:BE:195:LEU:CD1	28:BE:196:VAL:N	2.53	0.51
29:BF:122:LYS:CD	29:BF:192:LEU:HD12	2.40	0.51
30:BG:105:LYS:HA	30:BG:109:VAL:CG1	2.40	0.51
30:BG:121:ASN:OD1	30:BG:180:PHE:HB2	2.10	0.51
31:BH:102:ALA:HB1	31:BH:115:VAL:N	2.25	0.51
32:BK:4:ILE:HG23	32:BK:18:VAL:CG2	2.40	0.51
33:BL:35:MET:SD	33:BL:39:LYS:HE3	2.50	0.51
34:BM:109:LYS:HZ1	34:BM:110:GLY:H	1.50	0.51
34:BM:23:LEU:HG	34:BM:61:ARG:O	2.10	0.51
35:BN:22:ILE:HG13	35:BN:40:VAL:HG13	1.91	0.51
36:BO:101:VAL:CG2	36:BO:112:LEU:HD22	2.36	0.51
36:BO:59:LEU:HD23	54:B7:25:MET:HE1	1.93	0.51
37:BP:37:LEU:N	37:BP:100:GLY:HA2	2.25	0.51
37:BP:109:VAL:HG11	37:BP:114:ALA:CA	2.40	0.51
38:BQ:5:LYS:HZ3	38:BQ:5:LYS:C	2.13	0.51
38:BQ:96:ARG:HD2	38:BQ:115:GLU:OE1	2.09	0.51
39:BR:19:LYS:C	39:BR:19:LYS:HD3	2.31	0.51
39:BR:42:ASP:C	39:BR:44:LYS:N	2.59	0.51
39:BR:78:LEU:HD13	39:BR:79:ALA:CB	2.39	0.51
40:BS:53:ARG:NH2	40:BS:102:ILE:CG1	2.72	0.51
40:BS:7:ILE:C	40:BS:9:LEU:N	2.61	0.51
41:BT:14:HIS:O	41:BT:17:ILE:N	2.43	0.51
41:BT:25:TRP:O	41:BT:26:GLY:C	2.49	0.51
41:BT:61:TRP:CE3	41:BT:93:LYS:NZ	2.77	0.51
42:BU:62:LEU:CD1	42:BU:98:GLU:HA	2.39	0.51
43:BV:50:VAL:HG11	43:BV:103:ILE:HG13	1.92	0.51
43:BV:25:ARG:HD3	43:BV:74:ALA:CA	2.40	0.51
45:BX:32:PRO:C	45:BX:34:LYS:H	2.13	0.51
46:BY:116:VAL:HG21	46:BY:144:LEU:O	2.10	0.51
46:BY:56:VAL:HG22	46:BY:133:ILE:CD1	2.40	0.51
47:BZ:76:GLY:CA	47:BZ:78:TYR:HE1	2.23	0.51
24:BA:2136:C:C4	24:BA:2137:C:C5	2.98	0.51
26:BC:52:ARG:HB3	26:BC:52:ARG:CZ	2.40	0.51
6:AG:46:LYS:O	6:AG:47:ARG:C	2.48	0.51
1:AA:159:G:C2	1:AA:161:A:OP2	2.63	0.51
1:AA:1060:C:H2'	1:AA:1061:G:C8	2.45	0.51
1:AA:959:A:C2	1:AA:1221:G:N3	2.76	0.51
1:AA:1376:U:H3	1:AA:1377:A:N6	2.07	0.51
1:AA:1376:U:O4	9:AJ:10:ARG:HD2	2.10	0.51
1:AA:1400:C:C5	1:AA:1400:C:OP1	2.63	0.51
1:AA:1455:G:C2'	1:AA:1459:C:H5'	2.40	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:67:C:C4'	1:AA:172:A:C1'	2.89	0.51
1:AA:309:G:O2'	1:AA:310:G:O4'	2.22	0.51
1:AA:45:U:H2'	1:AA:46:G:C8	2.45	0.51
1:AA:599:C:N4	1:AA:640:A:N6	2.59	0.51
1:AA:621:A:H2'	1:AA:622:A:C8	2.46	0.51
1:AA:808:C:C4	1:AA:809:G:N7	2.79	0.51
1:AA:893:C:N3	1:AA:894:G:N7	2.58	0.51
1:AA:990:C:H2'	1:AA:991:U:N1	2.26	0.51
3:AC:36:A:N6	3:AC:37:A:C6	2.78	0.51
4:AE:92:TYR:CE2	4:AE:151:GLY:O	2.63	0.51
4:AE:25:ASN:HB3	4:AE:191:ASP:CA	2.40	0.51
4:AE:25:ASN:HD21	4:AE:27:LYS:CG	2.23	0.51
4:AE:52:GLU:CD	4:AE:53:ARG:H	2.13	0.51
5:AF:157:ILE:HG13	5:AF:164:ARG:NE	2.26	0.51
5:AF:174:PRO:HB2	5:AF:177:THR:HG22	1.92	0.51
1:AA:1190:G:P	5:AF:5:ILE:HG13	2.50	0.51
6:AG:60:GLU:HA	6:AG:63:LYS:HZ3	1.75	0.51
6:AG:82:ALA:CB	6:AG:92:VAL:HB	2.39	0.51
8:AI:37:VAL:HA	8:AI:65:VAL:CB	2.41	0.51
10:AK:101:PRO:HG2	10:AK:102:ARG:H	1.74	0.51
10:AK:98:LYS:NZ	10:AK:98:LYS:N	2.48	0.51
11:AL:106:ALA:C	11:AL:107:ARG:HG3	2.29	0.51
11:AL:50:LEU:HD21	11:AL:55:ALA:C	2.31	0.51
13:AN:13:GLN:O	13:AN:14:VAL:HG23	2.11	0.51
13:AN:12:ARG:HH11	13:AN:40:ILE:HG23	1.76	0.51
14:AO:115:LYS:O	14:AO:116:SER:C	2.49	0.51
15:AP:19:LEU:HD11	15:AP:30:ALA:CB	2.40	0.51
15:AP:24:GLY:O	15:AP:25:ILE:HG12	2.11	0.51
15:AP:27:LYS:O	15:AP:28:ALA:HB3	2.10	0.51
1:AA:1187:G:H1'	16:AQ:61:TRP:C	2.31	0.51
17:AR:12:ILE:HG12	17:AR:31:LEU:HD11	1.91	0.51
17:AR:21:ASP:OD2	17:AR:24:SER:CB	2.59	0.51
18:AS:58:TYR:O	18:AS:61:SER:CB	2.58	0.51
19:AT:75:ARG:HG2	19:AT:75:ARG:HH11	1.76	0.51
22:AW:16:HIS:O	22:AW:17:ARG:C	2.48	0.51
22:AW:18:GLN:O	22:AW:19:SER:C	2.49	0.51
22:AW:73:HIS:HD2	22:AW:74:LYS:NZ	2.08	0.51
48:B1:22:GLU:OE1	48:B1:22:GLU:HA	2.11	0.51
50:B3:46:GLN:O	50:B3:52:THR:HB	2.10	0.51
50:B3:59:PHE:C	50:B3:61:ARG:N	2.56	0.51
51:B4:13:LYS:CD	51:B4:13:LYS:N	2.65	0.51
51:B4:51:TYR:CE1	51:B4:55:ARG:HD3	2.46	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:B6:24:THR:HG23	53:B6:27:GLY:CA	2.40	0.51
54:B7:34:TRP:HE3	54:B7:36:LYS:HD3	1.74	0.51
24:BA:243:U:OP2	54:B7:4:MET:HB3	2.10	0.51
54:B7:16:ILE:CG2	54:B7:57:ARG:HH22	2.24	0.51
24:BA:1021:A:C6	24:BA:1023:U:C6	2.98	0.51
24:BA:1073:A:OP2	24:BA:1094:U:O4	2.29	0.51
24:BA:1022:G:C6	24:BA:1139:G:C2	2.99	0.51
24:BA:1180:C:C2	24:BA:1181:C:C5	2.98	0.51
24:BA:1310:G:N7	24:BA:1311:G:N3	2.59	0.51
24:BA:1313:U:P	44:BW:63:LYS:CD	2.98	0.51
24:BA:135:G:H2'	24:BA:136:G:O4'	2.10	0.51
24:BA:1388:G:H4'	24:BA:1524:G:O2'	2.09	0.51
24:BA:1403:C:H4'	24:BA:1471:A:C5'	2.37	0.51
24:BA:1405:U:C2'	24:BA:1406:U:C6	2.77	0.51
24:BA:1467:C:C4	24:BA:1468:C:N4	2.79	0.51
24:BA:1515:C:C2'	24:BA:1516:U:OP1	2.58	0.51
24:BA:129:C:H5'	24:BA:1599:C:O2'	2.10	0.51
24:BA:1634:A:O3'	24:BA:1635:G:N7	2.43	0.51
24:BA:1769:G:C6	24:BA:1770:G:O6	2.64	0.51
24:BA:1819:A:H2'	24:BA:1820:U:OP2	2.09	0.51
24:BA:1943:U:C4'	24:BA:1944:U:O5'	2.53	0.51
24:BA:185:U:C4	24:BA:212:G:N2	2.79	0.51
24:BA:860:U:H5	24:BA:2267:A:O3'	1.92	0.51
24:BA:2318:G:OP2	24:BA:2318:G:C8	2.63	0.51
24:BA:2352:A:C2'	24:BA:2353:G:O4'	2.56	0.51
24:BA:236:C:H2'	24:BA:237:C:O5'	2.10	0.51
24:BA:1864:U:C4'	24:BA:2409:G:H22	2.20	0.51
24:BA:2423:U:C2'	24:BA:2424:C:OP2	2.58	0.51
24:BA:1639:U:O2'	24:BA:2699:C:H4'	2.10	0.51
24:BA:2704:C:H2'	24:BA:2705:A:N9	2.23	0.51
24:BA:2777:G:H4'	24:BA:2778:A:OP2	2.10	0.51
24:BA:2828:C:C2	24:BA:2829:C:H5	2.28	0.51
24:BA:464:U:C2	24:BA:788:A:C5	2.98	0.51
24:BA:504:U:H5'	24:BA:506:G:OP1	2.09	0.51
24:BA:543:C:C2	24:BA:551:G:C2	2.98	0.51
24:BA:586:A:N6	24:BA:809:G:O2'	2.43	0.51
24:BA:647:G:H5'	24:BA:2352:A:H5'	1.92	0.51
24:BA:648:G:C2	24:BA:649:G:N7	2.79	0.51
24:BA:809:G:C5	24:BA:810:U:C5	2.98	0.51
24:BA:823:G:C3'	24:BA:824:A:H8	2.20	0.51
24:BA:885:C:N4	24:BA:889:C:C6	2.78	0.51
24:BA:988:A:OP1	49:B2:10:LYS:HD3	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:989:G:C2'	24:BA:990:A:OP2	2.58	0.51
25:BB:79:C:C2'	25:BB:80:U:H5'	2.41	0.51
25:BB:97:G:C5	25:BB:98:G:C8	2.98	0.51
27:BD:176:ARG:HA	27:BD:182:LEU:HD23	1.91	0.51
27:BD:56:GLY:N	27:BD:217:ARG:O	2.43	0.51
27:BD:234:GLY:CA	27:BD:241:PRO:HG3	2.38	0.51
24:BA:2210:G:O6	27:BD:70:TRP:CZ3	2.64	0.51
24:BA:2572:A:H3'	28:BE:144:ARG:NH2	2.26	0.51
28:BE:161:GLY:O	28:BE:163:GLU:OE1	2.29	0.51
28:BE:199:ARG:CD	28:BE:199:ARG:N	2.71	0.51
28:BE:199:ARG:O	28:BE:200:GLU:CD	2.48	0.51
28:BE:77:ILE:CG1	28:BE:78:LEU:N	2.71	0.51
29:BF:24:LEU:H	29:BF:25:PRO:CD	2.21	0.51
30:BG:107:LEU:HD22	30:BG:173:LEU:HD21	1.92	0.51
30:BG:85:GLY:O	30:BG:86:MET:CB	2.57	0.51
30:BG:96:ARG:O	30:BG:99:MET:CB	2.54	0.51
32:BK:45:LYS:HA	32:BK:45:LYS:HE3	1.91	0.51
32:BK:9:LEU:HD23	32:BK:17:GLN:NE2	2.23	0.51
24:BA:1076:C:C5'	33:BL:93:ARG:HH21	2.23	0.51
34:BM:15:LEU:CD2	34:BM:137:LYS:HA	2.29	0.51
34:BM:85:ILE:CD1	34:BM:85:ILE:N	2.69	0.51
34:BM:8:GLN:HA	34:BM:8:GLN:OE1	2.10	0.51
35:BN:10:VAL:CG2	35:BN:12:ASP:OD1	2.55	0.51
35:BN:61:VAL:HA	35:BN:83:ALA:HB2	1.93	0.51
37:BP:48:GLU:HA	37:BP:51:ARG:CG	2.39	0.51
37:BP:64:ILE:HG22	37:BP:105:GLU:HB3	1.92	0.51
41:BT:10:ARG:O	41:BT:11:ARG:C	2.46	0.51
41:BT:55:ARG:HA	41:BT:58:ARG:CZ	2.40	0.51
42:BU:45:THR:O	42:BU:46:VAL:CB	2.57	0.51
42:BU:66:ARG:HE	42:BU:95:LEU:HD12	1.73	0.51
42:BU:74:LYS:C	42:BU:75:PHE:CD1	2.83	0.51
42:BU:67:GLY:HA2	42:BU:94:LEU:HA	1.91	0.51
45:BX:12:THR:HG21	45:BX:71:LYS:HA	1.89	0.51
46:BY:75:ASN:HB3	46:BY:84:GLU:HB2	1.92	0.51
47:BZ:57:PHE:N	47:BZ:57:PHE:HD1	2.08	0.51
32:BK:95:LYS:O	32:BK:98:ALA:CB	2.55	0.51
24:BA:2128:C:N4	24:BA:2129:C:N4	2.58	0.51
24:BA:2134:A:OP2	24:BA:2134:A:O4'	2.28	0.51
24:BA:2178:C:H5''	26:BC:46:LYS:HZ3	1.75	0.51
3:AB:72:C:C2	3:AB:73:A:N7	2.78	0.51
1:AA:1169:A:OP2	1:AA:1169:A:H8	1.93	0.51
2:A1:36:U:H1'	9:AJ:82:GLY:CA	2.39	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1053:G:N2	1:AA:1058:G:O6	2.43	0.51
1:AA:1104:G:H4'	4:AE:111:ARG:CZ	2.40	0.51
1:AA:1145:C:C1'	1:AA:1146:A:C8	2.89	0.51
1:AA:1151:A:O2'	12:AM:70:ARG:NH1	2.43	0.51
1:AA:1157:A:N1	1:AA:1180:A:C5	2.78	0.51
1:AA:1302:U:O2'	1:AA:1303:C:C5'	2.58	0.51
1:AA:1419:G:H2'	1:AA:1420:C:H6	1.74	0.51
1:AA:1465:C:N3	1:AA:1466:C:C5	2.78	0.51
1:AA:553:A:C2'	1:AA:554:C:O4'	2.59	0.51
1:AA:597:G:N2	10:AK:94:TYR:CZ	2.79	0.51
1:AA:730:G:H2'	1:AA:731:G:C4'	2.41	0.51
1:AA:775:G:C4	1:AA:776:G:N7	2.78	0.51
1:AA:828:A:OP1	1:AA:828:A:H4'	2.10	0.51
1:AA:890:G:H2'	1:AA:891:U:OP2	2.11	0.51
1:AA:957:U:H3	1:AA:960:U:C5'	2.23	0.51
1:AA:96:G:C5	1:AA:97:U:C4	2.99	0.51
3:AB:52:G:H4'	24:BA:2471:C:P	2.47	0.51
3:AC:9:A:N6	3:AC:22:G:C5	2.79	0.51
3:AC:37:A:C5	3:AC:38:A:C5	2.98	0.51
3:AC:49:C:H2'	3:AC:49:C:O2	2.09	0.51
3:AC:70:G:C6	3:AC:71:G:N7	2.78	0.51
6:AG:126:ILE:O	6:AG:132:ARG:CB	2.57	0.51
6:AG:128:VAL:HG23	6:AG:133:VAL:N	2.25	0.51
6:AG:31:CYS:C	6:AG:33:MET:H	2.12	0.51
6:AG:90:GLY:O	6:AG:94:LEU:HG	2.11	0.51
8:AI:76:ALA:HA	8:AI:79:LEU:HD11	1.92	0.51
8:AI:89:MET:HE2	20:AU:75:ILE:HG21	1.91	0.51
9:AJ:152:ALA:O	9:AJ:154:TYR:N	2.42	0.51
1:AA:643:C:HO2'	10:AK:132:GLU:CD	2.12	0.51
10:AK:6:ILE:CG1	10:AK:85:ARG:CZ	2.89	0.51
11:AL:32:ASP:OD1	11:AL:35:GLU:HB2	2.10	0.51
12:AM:51:ARG:NH2	12:AM:61:GLU:OE1	2.44	0.51
12:AM:72:VAL:HG12	12:AM:73:ASP:N	2.25	0.51
12:AM:7:LYS:NZ	12:AM:71:LEU:HD11	2.25	0.51
12:AM:19:SER:OG	12:AM:91:PRO:HG3	2.10	0.51
13:AN:42:TRP:CZ3	13:AN:47:VAL:CG2	2.94	0.51
14:AO:24:VAL:CG1	14:AO:26:ALA:HB2	2.40	0.51
15:AP:78:ILE:HG23	15:AP:81:LEU:HD11	1.93	0.51
17:AR:76:GLU:O	17:AR:77:ARG:C	2.49	0.51
18:AS:27:LYS:HZ1	18:AS:27:LYS:H	1.58	0.51
18:AS:55:ARG:NH2	18:AS:58:TYR:CG	2.79	0.51
19:AT:75:ARG:HH12	19:AT:77:VAL:CA	2.23	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1314:C:N4	21:AV:4:SER:O	2.43	0.51
21:AV:30:LEU:HD12	21:AV:59:PRO:CA	2.39	0.51
21:AV:71:LEU:O	21:AV:74:PHE:CD1	2.63	0.51
48:B1:27:LEU:HG	48:B1:48:LEU:HB3	1.92	0.51
48:B1:52:ILE:HA	48:B1:55:LEU:HD13	1.93	0.51
48:B1:58:VAL:O	48:B1:61:GLU:N	2.42	0.51
49:B2:40:THR:O	49:B2:44:ARG:HG3	2.10	0.51
51:B4:55:ARG:O	51:B4:57:VAL:N	2.43	0.51
52:B5:20:ASN:ND2	52:B5:42:TRP:CD1	2.66	0.51
53:B6:8:ASN:ND2	53:B6:10:ARG:H	2.08	0.51
54:B7:9:GLY:O	54:B7:14:VAL:CB	2.59	0.51
36:BO:56:SER:HG	54:B7:27:THR:CB	2.23	0.51
24:BA:1071:G:H21	24:BA:1090:U:H5	1.58	0.51
24:BA:1099:G:C2	24:BA:1100:C:C6	2.99	0.51
24:BA:52:A:N7	24:BA:117:G:N2	2.58	0.51
24:BA:51:G:C1'	24:BA:118:A:N6	2.69	0.51
24:BA:120:U:C6	24:BA:150:C:H5	2.28	0.51
24:BA:1221:C:C4	24:BA:1229:G:N1	2.78	0.51
24:BA:1258:C:H2'	24:BA:1259:G:C8	2.40	0.51
24:BA:1327:C:H5''	24:BA:1328:G:OP2	2.11	0.51
24:BA:1477:A:OP2	24:BA:1477:A:H8	1.93	0.51
24:BA:1569:A:O2'	27:BD:39:LYS:NZ	2.38	0.51
24:BA:1682:G:H3'	24:BA:1683:C:C5	2.45	0.51
24:BA:1749:A:H2'	24:BA:1750:G:O4'	2.11	0.51
24:BA:1914:C:C2'	24:BA:1914:C:O2	2.56	0.51
24:BA:1996:C:C4'	24:BA:1996:C:C6	2.92	0.51
24:BA:2046:G:C4	24:BA:2047:U:C5	2.98	0.51
24:BA:221:A:C2	24:BA:233:A:C4	2.98	0.51
24:BA:2225:A:C4'	24:BA:2226:C:C6	2.93	0.51
24:BA:2320:A:H5'	24:BA:2321:G:N7	2.26	0.51
24:BA:2662:A:N3	24:BA:2663:G:H5'	2.26	0.51
24:BA:270(N):G:H3'	24:BA:270(O):U:C6	2.45	0.51
24:BA:2710:C:H2'	24:BA:2711:A:O4'	2.10	0.51
24:BA:2773:C:C2	24:BA:2774:C:C5	2.98	0.51
24:BA:2812:G:C6	24:BA:2813:A:N6	2.78	0.51
24:BA:2691:C:O4'	24:BA:2872:G:N7	2.43	0.51
24:BA:2887:U:C2	24:BA:2888:C:C5	2.99	0.51
24:BA:308:G:C2	24:BA:329:G:C2	2.97	0.51
24:BA:335:C:N3	24:BA:336:C:C5	2.78	0.51
24:BA:339:U:C6	24:BA:340:A:N7	2.79	0.51
24:BA:393:C:H2'	24:BA:394:A:O4'	2.10	0.51
24:BA:446:G:OP2	24:BA:446:G:O4'	2.29	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:473:G:N2	24:BA:474:G:N3	2.59	0.51
24:BA:520:G:OP1	43:BV:25:ARG:NH1	2.43	0.51
24:BA:624:C:H3'	24:BA:624:C:H6	1.69	0.51
24:BA:63:U:O2'	24:BA:64:A:N7	2.40	0.51
24:BA:672:C:C2	24:BA:673:C:C5	2.98	0.51
24:BA:465:G:N2	24:BA:683:C:H2'	2.24	0.51
24:BA:691:C:H1'	27:BD:45:ASN:ND2	2.16	0.51
24:BA:707:G:H2'	24:BA:708:C:O4'	2.10	0.51
24:BA:71:A:C2	24:BA:73:A:C6	2.99	0.51
24:BA:762:U:H1'	24:BA:763:G:C5	2.45	0.51
24:BA:775:G:O2'	24:BA:794:G:C8	2.61	0.51
25:BB:112:G:N2	25:BB:113:C:C2	2.78	0.51
25:BB:6:C:H5'	25:BB:27:C:C2'	2.40	0.51
27:BD:154:LYS:CG	27:BD:154:LYS:O	2.56	0.51
27:BD:178:PRO:CG	27:BD:179:SER:N	2.74	0.51
24:BA:2589:A:P	27:BD:226:MET:SD	3.09	0.51
27:BD:65:ILE:CG2	27:BD:66:ASP:N	2.73	0.51
24:BA:2731:G:H4'	28:BE:168:MET:HE2	1.93	0.51
28:BE:103:ASP:O	28:BE:199:ARG:O	2.28	0.51
28:BE:19:ARG:HB3	35:BN:73:ASP:CG	2.31	0.51
29:BF:114:VAL:HG23	29:BF:186:ILE:HD13	1.92	0.51
29:BF:82:ILE:HD13	29:BF:82:ILE:H	1.68	0.51
31:BH:137:ASP:OD2	31:BH:139:GLN:HG3	2.09	0.51
31:BH:35:VAL:CG1	31:BH:72:ILE:HA	2.15	0.51
34:BM:67:LEU:O	34:BM:68:GLU:HB2	2.10	0.51
36:BO:96:THR:OG1	36:BO:112:LEU:HD11	2.11	0.51
36:BO:97:PRO:HD3	36:BO:102:ARG:CZ	2.41	0.51
37:BP:85:LYS:HZ1	47:BZ:10:THR:HG21	1.73	0.51
38:BQ:87:TYR:O	38:BQ:89:ASP:CG	2.48	0.51
25:BB:50:G:H5''	39:BR:61:ASN:CA	2.40	0.51
24:BA:2875:C:OP1	40:BS:3:ARG:NH1	2.43	0.51
40:BS:34:VAL:O	40:BS:44:ASP:O	2.29	0.51
41:BT:106:PHE:HA	41:BT:109:LEU:HD12	1.92	0.51
41:BT:16:LYS:HD2	41:BT:17:ILE:CD1	2.41	0.51
24:BA:532:A:N6	41:BT:45:TYR:HH	2.06	0.51
42:BU:25:LEU:HA	42:BU:28:GLU:CG	2.40	0.51
42:BU:34:GLU:O	42:BU:35:LEU:CD1	2.58	0.51
42:BU:73:SER:OG	42:BU:89:GLN:CB	2.56	0.51
43:BV:89:ALA:O	43:BV:91:GLY:N	2.44	0.51
46:BY:102:LEU:CD2	46:BY:137:ILE:HB	2.40	0.51
46:BY:18:LEU:HD11	46:BY:38:TYR:CG	2.45	0.51
46:BY:95:PRO:HD2	46:BY:130:PRO:HA	1.91	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:9:TYR:C	46:BY:10:ARG:HG3	2.30	0.51
32:BK:69:LYS:O	32:BK:73:GLU:OE1	2.28	0.51
32:BK:88:ILE:HG22	32:BK:90:GLY:H	1.75	0.51
26:BC:153:ILE:HA	26:BC:156:ILE:CD1	2.26	0.51
26:BC:209:LEU:HG	26:BC:212:VAL:CG2	2.39	0.51
26:BC:23:ASP:OD1	26:BC:186:ALA:HB2	2.09	0.51
26:BC:49:ILE:HD11	26:BC:165:ASN:ND2	2.24	0.51
24:BA:2175:C:OP1	26:BC:5:LYS:CG	2.58	0.51
26:BC:63:SER:O	26:BC:65:PRO:CD	2.57	0.51
48:B1:1:MET:O	48:B1:4:GLN:N	2.43	0.51
24:BA:2191:G:H21	24:BA:2192:G:H1'	1.75	0.51
1:AA:1182:G:C4'	1:AA:1183:A:O5'	2.58	0.51
1:AA:1450:U:C1'	1:AA:1454:G:N2	2.73	0.51
1:AA:196:A:H1'	1:AA:222:U:H1'	1.92	0.51
1:AA:295:C:C2'	1:AA:296:U:O5'	2.59	0.51
1:AA:447:G:H1'	1:AA:487:A:H61	1.76	0.51
1:AA:467:G:N2	1:AA:468:A:C4	2.78	0.51
1:AA:486:U:O2	1:AA:486:U:H2'	2.10	0.51
1:AA:652:U:H2'	1:AA:752:G:H22	1.75	0.51
1:AA:801:U:C2'	1:AA:801:U:O2	2.58	0.51
1:AA:809:G:H2'	1:AA:810:C:C5'	2.40	0.51
1:AA:834:C:O2'	1:AA:835:U:O4'	2.28	0.51
1:AA:978:A:C6	1:AA:1318:A:N6	2.79	0.51
3:AC:5:G:C2'	3:AC:6:G:O5'	2.58	0.51
3:AD:34:G:N3	3:AD:34:G:H2'	2.25	0.51
4:AE:141:GLU:CD	4:AE:141:GLU:C	2.69	0.51
4:AE:15:VAL:C	4:AE:16:HIS:HD1	2.13	0.51
4:AE:163:PHE:CE1	4:AE:186:ALA:CA	2.94	0.51
4:AE:221:LEU:C	4:AE:221:LEU:CD1	2.75	0.51
4:AE:45:GLN:O	4:AE:48:MET:HB2	2.11	0.51
4:AE:75:LYS:HZ2	4:AE:75:LYS:C	2.12	0.51
5:AF:22:TRP:CZ2	5:AF:33:LEU:HG	2.45	0.51
6:AG:106:TYR:OH	6:AG:112:VAL:O	2.22	0.51
6:AG:127:THR:OG1	6:AG:149:ALA:HA	2.10	0.51
6:AG:173:TRP:H	6:AG:173:TRP:HE3	1.58	0.51
7:AH:136:MET:HA	7:AH:139:LEU:CD1	2.40	0.51
1:AA:1081:G:OP2	7:AH:27:ARG:HD2	2.11	0.51
7:AH:43:LEU:N	7:AH:65:ASN:ND2	2.48	0.51
8:AI:6:VAL:HG13	8:AI:6:VAL:O	2.11	0.51
9:AJ:23:VAL:HG13	9:AJ:43:PHE:CE2	2.46	0.51
11:AL:97:LYS:NZ	11:AL:102:LEU:HB3	2.25	0.51
11:AL:3:GLN:HG3	11:AL:20:ARG:CG	2.41	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1226:C:OP2	15:AP:103:THR:HB	2.10	0.51
15:AP:45:VAL:O	15:AP:47:ASP:N	2.43	0.51
18:AS:32:TYR:N	18:AS:32:TYR:HD1	2.07	0.51
21:AV:18:LYS:HE2	21:AV:22:LEU:CD1	2.41	0.51
23:AX:9:ARG:NH1	23:AX:21:TYR:CD2	2.76	0.51
24:BA:1131:G:H4'	24:BA:1132:A:OP1	2.10	0.51
24:BA:1176:G:C5'	24:BA:1177:A:C8	2.94	0.51
24:BA:1212:G:N7	24:BA:1235:G:C6	2.78	0.51
24:BA:1441:G:N2	24:BA:1442:G:H1'	2.24	0.51
24:BA:1528:A:H3'	24:BA:1529:A:O4'	2.11	0.51
24:BA:1539:G:C8	24:BA:1540:G:C8	2.99	0.51
24:BA:1577:C:H6	24:BA:1577:C:OP2	1.94	0.51
24:BA:1669:A:C6	24:BA:1994:C:O2	2.64	0.51
24:BA:1681:G:O6	24:BA:1762:A:N6	2.43	0.51
24:BA:1726:G:C5	24:BA:1727:U:O4	2.62	0.51
24:BA:1917:U:C5	24:BA:1918:A:C8	2.98	0.51
24:BA:1997:G:H5'	28:BE:123:ALA:HB3	1.93	0.51
24:BA:2033:A:HO2'	24:BA:2034:U:P	2.34	0.51
24:BA:2246:G:N3	24:BA:2247:A:C5	2.79	0.51
24:BA:2260:C:H2'	24:BA:2261:C:C6	2.46	0.51
24:BA:2287:A:N7	24:BA:2289:G:N7	2.56	0.51
24:BA:231:C:C4	24:BA:232:G:C2	2.98	0.51
24:BA:2345:G:H21	24:BA:2381:C:C3'	2.23	0.51
24:BA:2361:A:N3	24:BA:2361:A:H2'	2.26	0.51
24:BA:1128:A:C2	24:BA:2490:G:OP1	2.64	0.51
24:BA:2584:U:C5	24:BA:2585:U:C2	2.98	0.51
24:BA:2586:C:H3'	24:BA:2586:C:H6	1.74	0.51
24:BA:2695:C:H2'	24:BA:2696:U:C6	2.45	0.51
24:BA:2696:U:C2	24:BA:2697:G:C8	2.99	0.51
24:BA:2716:U:O2'	24:BA:2717:G:C5'	2.59	0.51
24:BA:2742:C:H4'	55:B8:35:ARG:NH1	2.25	0.51
24:BA:2761:G:C2'	24:BA:2762:G:H5'	2.41	0.51
24:BA:2815:C:C2'	24:BA:2816:C:H5'	2.40	0.51
24:BA:2820:A:H62	28:BE:191:PRO:HB3	1.75	0.51
24:BA:281:G:N2	24:BA:283:A:C4'	2.74	0.51
24:BA:312:G:O4'	24:BA:312:G:P	2.68	0.51
24:BA:313:C:C2	24:BA:314:A:C8	2.99	0.51
24:BA:330:A:O2'	24:BA:1210:A:C6	2.63	0.51
24:BA:483:A:C2	24:BA:484:C:O4'	2.64	0.51
24:BA:533:G:N7	24:BA:534:U:C4	2.78	0.51
24:BA:714:U:O2	24:BA:715:G:C8	2.64	0.51
24:BA:817:C:H3'	24:BA:818:G:H8	1.76	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:832:G:OP1	36:BO:36:LYS:HE2	2.10	0.51
24:BA:847:U:C4	24:BA:933:A:H2	2.27	0.51
24:BA:912:C:O2'	24:BA:913:U:H5'	2.10	0.51
24:BA:971:C:OP2	24:BA:974(A):C:C5	2.64	0.51
25:BB:96:G:C2	25:BB:97:G:C8	2.99	0.51
27:BD:172:TYR:HD2	27:BD:185:VAL:C	2.13	0.51
27:BD:252:TRP:N	27:BD:255:LYS:HZ2	2.08	0.51
27:BD:71:ASP:O	27:BD:72:LYS:CB	2.59	0.51
28:BE:138:PRO:O	28:BE:139:GLY:O	2.28	0.51
28:BE:142:GLY:O	28:BE:143:ASN:CB	2.56	0.51
24:BA:2731:G:C4'	28:BE:168:MET:SD	2.94	0.51
29:BF:130:ALA:O	29:BF:139:PHE:CA	2.56	0.51
29:BF:200:GLU:O	29:BF:201:VAL:C	2.49	0.51
30:BG:11:TYR:O	30:BG:15:VAL:CG1	2.57	0.51
30:BG:138:GLN:N	30:BG:155:MET:SD	2.83	0.51
31:BH:121:ILE:HD11	31:BH:123:PHE:HE1	1.73	0.51
31:BH:56:SER:HB3	31:BH:61:HIS:ND1	2.25	0.51
33:BL:115:LEU:HD13	33:BL:115:LEU:O	2.11	0.51
34:BM:56:ASN:O	34:BM:57:ALA:C	2.46	0.51
34:BM:72:TYR:CE1	34:BM:74:ARG:HB3	2.45	0.51
37:BP:37:LEU:HD23	37:BP:100:GLY:CA	2.40	0.51
37:BP:109:VAL:HG22	37:BP:113:GLN:CB	2.39	0.51
37:BP:42:ILE:O	37:BP:42:ILE:CG2	2.58	0.51
38:BQ:103:ARG:HA	38:BQ:109:ALA:O	2.10	0.51
38:BQ:44:LEU:HD13	38:BQ:48:VAL:HG23	1.91	0.51
24:BA:2820:A:H4'	38:BQ:4:LEU:HD22	1.92	0.51
39:BR:31:SER:CB	39:BR:34:HIS:HB3	2.40	0.51
39:BR:65:VAL:HG23	39:BR:66:ALA:N	2.25	0.51
39:BR:67:ARG:NE	39:BR:71:ARG:HD2	2.25	0.51
35:BN:72:PRO:O	40:BS:84:GLN:NE2	2.44	0.51
41:BT:39:LEU:O	41:BT:41:ALA:N	2.44	0.51
43:BV:11:ARG:HB2	43:BV:98:LYS:CD	2.41	0.51
44:BW:5:TYR:HB3	48:B1:24:LYS:HZ3	1.76	0.51
44:BW:73:ARG:HG2	44:BW:74:PRO:CD	2.35	0.51
44:BW:85:PRO:HG3	44:BW:87:GLN:HG2	1.90	0.51
45:BX:26:LYS:HE3	45:BX:36:ALA:HB3	1.91	0.51
46:BY:139:VAL:HG12	46:BY:140:ASP:H	1.75	0.51
47:BZ:40:GLN:NE2	47:BZ:42:GLY:O	2.43	0.51
47:BZ:31:VAL:HG13	47:BZ:67:VAL:CG2	2.40	0.51
32:BK:77:LEU:HD22	32:BK:140:LEU:HD23	1.93	0.51
26:BC:75:LEU:HD23	26:BC:77:ILE:CD1	2.34	0.51
26:BC:82:LYS:CG	26:BC:116:THR:HG21	2.40	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1115:G:N2	24:BA:1116:C:C2	2.78	0.51
26:BC:148:ASN:HB2	26:BC:151:GLU:HB2	1.92	0.51
2:A1:10:U:O2'	2:A1:12:U:C5	2.61	0.51
1:AA:1003:G:N2	1:AA:1005:A:H5'	2.26	0.51
1:AA:1061:G:H5'	12:AM:59:SER:OG	2.11	0.51
1:AA:1205:U:H1'	5:AF:195:VAL:HG22	1.93	0.51
1:AA:1213:A:C2	1:AA:1215:G:C4	2.99	0.51
1:AA:1430:C:O2'	1:AA:1431:C:C5'	2.59	0.51
1:AA:1406:U:O4'	1:AA:1518:A:H4'	2.11	0.51
1:AA:1507:A:C2	1:AA:1530:G:H1'	2.46	0.51
1:AA:186(B):C:C4'	22:AW:89:ARG:HH22	2.23	0.51
1:AA:390:C:N3	1:AA:391:G:N7	2.59	0.51
1:AA:420:U:HO2'	1:AA:421:U:H5	1.57	0.51
1:AA:497:U:O2	1:AA:498:A:C8	2.64	0.51
1:AA:611:A:H2'	1:AA:612:C:C6	2.46	0.51
1:AA:754:C:H1'	17:AR:69:TYR:CB	2.41	0.51
1:AA:901:A:N3	1:AA:902:G:C1'	2.74	0.51
1:AA:946:A:C2'	1:AA:947:G:H8	2.21	0.51
3:AC:21:A:C2	3:AC:48:C:N3	2.79	0.51
3:AC:55:U:O5'	3:AC:55:U:H6	1.92	0.51
4:AE:163:PHE:CA	4:AE:185:ILE:O	2.47	0.51
4:AE:187:LEU:HD23	4:AE:201:ILE:HG22	1.93	0.51
4:AE:35:GLU:OE2	4:AE:39:ILE:N	2.44	0.51
5:AF:117:ALA:O	5:AF:118:GLN:C	2.49	0.51
5:AF:183:ASP:C	5:AF:183:ASP:OD2	2.47	0.51
6:AG:113:SER:HB3	6:AG:116:GLN:CG	2.41	0.51
7:AH:140:ARG:CB	7:AH:140:ARG:CZ	2.88	0.51
7:AH:80:ILE:HD12	7:AH:80:ILE:H	1.74	0.51
8:AI:36:ARG:CB	8:AI:36:ARG:NH1	2.74	0.51
9:AJ:18:TYR:O	9:AJ:19:GLY:C	2.49	0.51
9:AJ:74:GLU:CG	9:AJ:75:VAL:H	2.10	0.51
10:AK:97:VAL:HG13	10:AK:98:LYS:N	2.25	0.51
11:AL:67:GLY:N	11:AL:73:GLN:NE2	2.58	0.51
12:AM:44:VAL:HA	12:AM:66:ARG:HB3	1.92	0.51
12:AM:7:LYS:HZ2	12:AM:71:LEU:HD21	1.74	0.51
13:AN:18:ARG:CD	13:AN:34:ASP:O	2.59	0.51
13:AN:63:LEU:HG	13:AN:66:LEU:HD12	1.91	0.51
13:AN:68:ALA:O	13:AN:72:ALA:HB2	2.11	0.51
18:AS:26:ARG:NE	18:AS:31:LYS:HZ3	2.08	0.51
18:AS:3:LYS:C	18:AS:4:ILE:HD13	2.30	0.51
20:AU:41:LYS:HA	20:AU:44:LEU:HD23	1.93	0.51
48:B1:25:ARG:HG3	48:B1:25:ARG:NH2	2.22	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:B2:40:THR:HG22	49:B2:42:ALA:HB3	1.91	0.51
50:B3:33:VAL:HG12	50:B3:33:VAL:O	2.10	0.51
51:B4:17:ASP:C	51:B4:19:ARG:N	2.63	0.51
51:B4:6:VAL:O	51:B4:7:PRO:O	2.28	0.51
54:B7:40:GLU:C	54:B7:42:ARG:H	2.14	0.51
54:B7:43:GLN:CD	54:B7:43:GLN:N	2.64	0.51
55:B8:11:CYS:N	55:B8:14:CYS:SG	2.83	0.51
24:BA:1063:G:N2	24:BA:1076:C:C4	2.78	0.51
24:BA:1095:A:C2'	24:BA:1096:A:O4'	2.58	0.51
24:BA:1243:G:N1	24:BA:1244:G:C5	2.79	0.51
24:BA:1273:U:H4'	24:BA:1275:A:OP1	2.09	0.51
24:BA:1308:A:N3	24:BA:1309:G:C1'	2.73	0.51
24:BA:1403:C:H5''	24:BA:1471:A:O4'	2.11	0.51
24:BA:1442:G:H2'	24:BA:1442:G:N3	2.26	0.51
24:BA:1513:C:H2'	24:BA:1514:U:C5	2.46	0.51
24:BA:1559:G:N3	24:BA:1559:G:C2'	2.73	0.51
24:BA:1303:G:O2'	24:BA:1641:A:N1	2.43	0.51
24:BA:1718:G:O6	24:BA:1735:C:N4	2.43	0.51
24:BA:1787:A:C2'	24:BA:1788:C:H5'	2.40	0.51
24:BA:1917:U:C5	24:BA:1918:A:C4	2.98	0.51
24:BA:1949:G:C5	24:BA:1950:G:N7	2.79	0.51
24:BA:1957:C:O2	24:BA:1958:C:C5	2.64	0.51
24:BA:1968:G:HO2'	24:BA:1969:A:H8	1.59	0.51
24:BA:1995:U:H3'	24:BA:1995:U:C6	2.46	0.51
24:BA:1996:C:C5	24:BA:1996:C:OP1	2.63	0.51
24:BA:2014:A:C2	24:BA:2613:U:N3	2.79	0.51
24:BA:570:G:H2'	24:BA:2030:A:N6	2.26	0.51
24:BA:2232:U:N3	24:BA:2233:U:C5	2.78	0.51
24:BA:859:G:O2'	24:BA:2268:A:C2	2.53	0.51
24:BA:226:G:O2'	24:BA:227:A:O4'	2.28	0.51
24:BA:2298:A:C3'	24:BA:2299:G:H8	2.24	0.51
24:BA:220:G:O2'	24:BA:233:A:N3	2.44	0.51
24:BA:253:C:O2	24:BA:253:C:H2'	2.11	0.51
24:BA:2754:U:H6	24:BA:2754:U:O5'	1.94	0.51
24:BA:2848:G:P	40:BS:99:LEU:HD12	2.51	0.51
24:BA:29:U:O2	24:BA:30:G:O6	2.28	0.51
24:BA:398:G:C2	24:BA:399:G:H1'	2.46	0.51
24:BA:484:C:C2'	24:BA:485:C:H6	2.13	0.51
24:BA:49:A:C5	24:BA:177:G:N1	2.79	0.51
24:BA:547:A:C6	24:BA:548:A:C6	2.99	0.51
24:BA:562:U:O2'	24:BA:563:G:H5'	2.11	0.51
24:BA:563:G:C2	24:BA:564:C:C4	2.99	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:566:U:C6	24:BA:567:A:C8	2.98	0.51
24:BA:715:G:H2'	24:BA:716:A:O5'	2.11	0.51
24:BA:753:C:O2	24:BA:753:C:H2'	2.10	0.51
24:BA:789:A:OP1	24:BA:789:A:C3'	2.51	0.51
24:BA:852:G:C6	24:BA:853:G:N7	2.78	0.51
24:BA:8:A:H2'	24:BA:9:U:H6	1.76	0.51
24:BA:945:A:C3'	24:BA:946:G:H5''	2.40	0.51
25:BB:31:C:N3	25:BB:32:C:H5	2.06	0.51
25:BB:82:G:C2	25:BB:83:G:C8	2.98	0.51
24:BA:1902:C:H4'	27:BD:242:ARG:O	2.10	0.51
27:BD:80:ALA:CB	27:BD:96:HIS:ND1	2.73	0.51
28:BE:100:GLU:O	28:BE:172:VAL:HG22	2.11	0.51
24:BA:2682:U:C2	28:BE:21:VAL:HG21	2.46	0.51
28:BE:54:GLN:HB3	28:BE:57:LYS:CE	2.41	0.51
29:BF:119:ARG:CZ	29:BF:120:GLU:OE1	2.59	0.51
29:BF:133:ASN:CG	29:BF:162:LEU:HD13	2.31	0.51
29:BF:173:VAL:CG2	29:BF:174:VAL:N	2.74	0.51
29:BF:64:ILE:HG21	29:BF:78:ILE:HB	1.93	0.51
24:BA:675:A:H5''	29:BF:67:GLN:OE1	2.09	0.51
30:BG:8:LYS:CE	30:BG:100:TRP:HD1	2.23	0.51
15:AP:3:ARG:NH1	30:BG:113:ARG:CG	2.74	0.51
30:BG:122:PRO:O	30:BG:123:ASN:C	2.48	0.51
30:BG:76:SER:C	30:BG:78:SER:N	2.62	0.51
30:BG:9:ARG:HB2	30:BG:9:ARG:CZ	2.41	0.51
31:BH:42:ARG:CZ	31:BH:42:ARG:HA	2.41	0.51
24:BA:1096:A:N6	33:BL:30:HIS:CD2	2.78	0.51
24:BA:1063:G:H5'	33:BL:87:GLY:HA3	1.92	0.51
24:BA:6:A:C4'	34:BM:132:ALA:O	2.55	0.51
34:BM:16:ILE:CD1	34:BM:53:VAL:O	2.57	0.51
36:BO:98:GLU:O	36:BO:100:LEU:HD23	2.11	0.51
37:BP:109:VAL:CG2	37:BP:113:GLN:HB2	2.38	0.51
37:BP:126:PRO:C	37:BP:127:ILE:CG1	2.78	0.51
37:BP:6:ARG:CG	37:BP:70:PRO:HB3	2.38	0.51
38:BQ:67:LEU:HD23	38:BQ:76:VAL:CG2	2.39	0.51
39:BR:26:LEU:CD1	39:BR:37:ALA:HB1	2.40	0.51
40:BS:17:THR:C	40:BS:19:LEU:N	2.64	0.51
40:BS:58:ASN:N	40:BS:61:PHE:CE2	2.77	0.51
41:BT:54:LYS:HE2	41:BT:54:LYS:HA	1.92	0.51
42:BU:10:LYS:O	42:BU:12:TYR:N	2.44	0.51
45:BX:97:ARG:CA	45:BX:101:LYS:CG	2.89	0.51
45:BX:2:ARG:CG	45:BX:3:VAL:H	2.22	0.51
46:BY:176:PRO:HB2	46:BY:179:ASP:H	1.75	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:53:ILE:CG1	46:BY:58:VAL:HG21	2.32	0.51
47:BZ:46:LYS:CD	47:BZ:46:LYS:N	2.73	0.51
25:BB:11:C:OP1	47:BZ:75:LEU:HD11	2.11	0.51
47:BZ:76:GLY:C	47:BZ:78:TYR:HE1	2.14	0.51
3:AD:20:U:O2	3:AD:20:U:C2'	2.57	0.51
3:AD:48:C:OP1	3:AD:48:C:O4'	2.29	0.51
26:BC:213:TYR:HB3	26:BC:223:ARG:CA	2.23	0.51
26:BC:22:ILE:CG2	26:BC:186:ALA:HA	2.41	0.51
26:BC:54:SER:CA	26:BC:57:ASN:HD22	2.23	0.51
48:B1:1:MET:SD	48:B1:3:LYS:HB2	2.51	0.51
5:AF:60:ALA:HA	12:AM:92:THR:O	2.11	0.51
19:AT:100:LYS:HB3	19:AT:100:LYS:HZ2	1.74	0.51
1:AA:1384:C:H2'	1:AA:1385:G:O4'	2.09	0.51
1:AA:1064:G:O2'	1:AA:1065:U:H1'	2.10	0.51
1:AA:1102:A:C6	1:AA:1103:C:C4	2.99	0.51
1:AA:1227:A:C8	1:AA:1228:C:O4'	2.58	0.51
1:AA:1248:A:C2	1:AA:1249:C:N3	2.78	0.51
1:AA:1329:A:C2'	1:AA:1330:U:H5'	2.40	0.51
1:AA:1350:A:N6	1:AA:1373:G:N2	2.59	0.51
1:AA:971:G:C5	1:AA:1365:G:H5'	2.46	0.51
1:AA:1415:G:C2	1:AA:1416:G:C8	2.99	0.51
1:AA:1425:U:C2	1:AA:1426:C:C5	2.98	0.51
1:AA:1442:G:O5'	1:AA:1442:G:N3	2.44	0.51
1:AA:1418:A:N1	1:AA:1483:A:C6	2.79	0.51
1:AA:149:A:H2'	1:AA:150:C:C6	2.46	0.51
1:AA:1510:U:C2'	1:AA:1511:G:C8	2.92	0.51
1:AA:332:G:O2'	1:AA:333:G:H5'	2.11	0.51
1:AA:570:G:C6	1:AA:866:C:N4	2.78	0.51
1:AA:577:G:O2'	1:AA:578:C:O5'	2.22	0.51
1:AA:629:G:C2	1:AA:630:G:C8	2.99	0.51
1:AA:686:U:H2'	1:AA:687:A:H8	1.76	0.51
1:AA:706:A:N3	1:AA:707:C:C6	2.78	0.51
1:AA:765:G:N2	1:AA:816:A:H2	2.06	0.51
1:AA:80:G:H2'	1:AA:81:G:C8	2.45	0.51
1:AA:851:G:C2	1:AA:852:G:C1'	2.94	0.51
1:AA:857:C:C2	1:AA:858:G:H1'	2.45	0.51
1:AA:85:U:H2'	1:AA:86:U:C5'	2.40	0.51
1:AA:85:U:O2'	1:AA:86:U:H5'	2.11	0.51
1:AA:872:A:C5	1:AA:874:G:C8	2.99	0.51
1:AA:958:A:H2'	1:AA:959:A:C8	2.45	0.51
3:AB:75:C:O2	24:BA:2508:G:C5'	2.54	0.51
4:AE:35:GLU:HG2	4:AE:39:ILE:O	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:58:ILE:O	4:AE:61:LEU:CB	2.59	0.51
5:AF:179:ARG:O	5:AF:206:GLU:HG3	2.11	0.51
1:AA:438:G:H5''	6:AG:123:HIS:HB3	1.92	0.51
6:AG:17:VAL:O	6:AG:18:LYS:O	2.29	0.51
6:AG:76:ARG:HG3	6:AG:207:TYR:CE2	2.46	0.51
6:AG:60:GLU:O	6:AG:63:LYS:HD2	2.10	0.51
7:AH:14:ARG:HG2	7:AH:29:GLY:O	2.10	0.51
7:AH:20:GLN:NE2	7:AH:21:ALA:N	2.59	0.51
8:AI:11:ASN:ND2	8:AI:86:ARG:HH22	2.07	0.51
8:AI:52:ILE:CG2	8:AI:53:ALA:H	2.23	0.51
9:AJ:71:PRO:HD2	9:AJ:100:ALA:HB2	1.92	0.51
9:AJ:71:PRO:HD3	9:AJ:100:ALA:HB2	1.92	0.51
9:AJ:71:PRO:CG	9:AJ:96:GLN:HG3	2.40	0.51
10:AK:79:VAL:O	10:AK:80:ILE:C	2.47	0.51
12:AM:82:ILE:O	12:AM:86:MET:CB	2.56	0.51
12:AM:9:ARG:HG3	12:AM:95:GLU:OE2	2.11	0.51
13:AN:43:SER:CB	13:AN:64:ALA:HB1	2.40	0.51
13:AN:57:THR:OG1	13:AN:59:TYR:HB2	2.10	0.51
13:AN:58:PRO:CA	13:AN:90:GLY:HA3	2.41	0.51
1:AA:539:A:OP2	14:AO:115:LYS:CE	2.58	0.51
14:AO:35:GLY:HA3	14:AO:60:LEU:HB3	1.93	0.51
16:AQ:36:PHE:O	16:AQ:36:PHE:CD1	2.64	0.51
1:AA:657:G:H4'	17:AR:28:GLN:NE2	2.25	0.51
18:AS:58:TYR:O	18:AS:61:SER:HB3	2.11	0.51
49:B2:17:LYS:CA	49:B2:20:LYS:HZ3	2.24	0.51
50:B3:55:ARG:O	50:B3:61:ARG:NH2	2.44	0.51
24:BA:1066:U:O2	24:BA:1069:A:OP2	2.29	0.51
24:BA:1068:G:C6	24:BA:1073:A:N1	2.78	0.51
24:BA:1147:C:H2'	24:BA:1148:A:H5'	1.92	0.51
24:BA:70:G:H2'	24:BA:114:U:C5	2.46	0.51
24:BA:1163:G:N1	24:BA:1164:G:N7	2.59	0.51
24:BA:1183:G:O2'	24:BA:1184:G:OP2	2.25	0.51
24:BA:1189:A:N7	24:BA:1190:G:C8	2.78	0.51
24:BA:1203:G:H5'	24:BA:1205:U:OP2	2.11	0.51
24:BA:1299:G:H5'	24:BA:1301:A:C1'	2.39	0.51
24:BA:1426:G:C8	24:BA:1427:A:N7	2.79	0.51
24:BA:1455:G:OP2	24:BA:1456:G:OP2	2.29	0.51
24:BA:1471:A:N7	24:BA:1521:G:N2	2.59	0.51
24:BA:1540:G:H2'	24:BA:1541:U:H5'	1.92	0.51
24:BA:1541:U:O2	24:BA:1541:U:C2'	2.51	0.51
24:BA:1552:G:H5'	24:BA:1553:A:OP1	2.11	0.51
24:BA:1667:G:C2	24:BA:1991:U:C5	2.99	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:742:G:O2'	24:BA:1676:A:H4'	2.10	0.51
24:BA:1879:C:C4	24:BA:1880:C:C4	2.99	0.51
24:BA:1913:A:C2	24:BA:1918:A:N7	2.78	0.51
24:BA:1834:U:H1'	24:BA:1969:A:N3	2.25	0.51
24:BA:2013:A:C2'	24:BA:2014:A:O5'	2.59	0.51
24:BA:205:G:O2'	24:BA:206:U:OP1	2.28	0.51
24:BA:209:C:H6	24:BA:209:C:O5'	1.94	0.51
24:BA:2323:G:N2	24:BA:2324:C:C2	2.79	0.51
24:BA:2353:G:O2'	47:BZ:35:ASN:ND2	2.43	0.51
24:BA:2377:A:N3	24:BA:2378:A:N7	2.58	0.51
24:BA:2676:C:C2	24:BA:2677:G:N7	2.79	0.51
24:BA:271(B):G:OP1	24:BA:271(C):U:O4'	2.28	0.51
24:BA:271:G:C2	24:BA:272:G:C8	2.99	0.51
24:BA:2779:U:C6	24:BA:2779:U:H3'	2.46	0.51
24:BA:2836:U:H2'	24:BA:2837:G:C8	2.46	0.51
24:BA:270(B):A:C5'	24:BA:366:C:O4'	2.57	0.51
24:BA:452:G:H5''	24:BA:453:C:OP2	2.10	0.51
24:BA:47:C:N3	24:BA:179:G:C6	2.78	0.51
24:BA:479:A:N3	24:BA:480:A:N7	2.58	0.51
24:BA:481:G:H2'	24:BA:507:A:H61	1.75	0.51
24:BA:531:C:H6	24:BA:532:A:C2	2.28	0.51
24:BA:606:U:O5'	24:BA:606:U:C6	2.52	0.51
24:BA:731:C:H2'	24:BA:732:C:C5'	2.41	0.51
24:BA:859:G:C8	24:BA:859:G:C3'	2.93	0.51
24:BA:918:A:H3'	24:BA:918:A:N3	2.26	0.51
25:BB:57:A:C8	25:BB:57:A:C3'	2.94	0.51
25:BB:66:A:N1	25:BB:107:U:H2'	2.26	0.51
27:BD:157:ARG:CB	27:BD:160:GLY:O	2.56	0.51
24:BA:2618:G:C2	28:BE:150:VAL:HG11	2.46	0.51
28:BE:176:ILE:HD11	28:BE:179:GLU:HG2	1.93	0.51
24:BA:2735:G:H4'	28:BE:203:LYS:HE3	1.92	0.51
28:BE:4:ILE:HG23	28:BE:30:PRO:HG3	1.92	0.51
28:BE:37:ARG:O	28:BE:38:THR:CB	2.47	0.51
29:BF:12:LEU:HD22	29:BF:129:PHE:N	2.26	0.51
29:BF:149:ASP:HA	29:BF:172:TRP:HE1	1.76	0.51
29:BF:177:ALA:N	29:BF:178:PRO:CD	2.74	0.51
29:BF:117:ARG:HG3	29:BF:187:VAL:HA	1.93	0.51
29:BF:5:ALA:O	29:BF:20:LEU:HD13	2.11	0.51
29:BF:45:ARG:HD3	29:BF:97:TYR:CE1	2.46	0.51
30:BG:29:TRP:C	30:BG:31:VAL:N	2.56	0.51
30:BG:44:GLY:O	30:BG:72:ARG:O	2.28	0.51
31:BH:33:LEU:HD22	31:BH:75:ALA:CB	2.41	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:BL:105:LEU:CD2	33:BL:124:ALA:HB1	2.40	0.51
33:BL:10:LEU:CD1	33:BL:57:ILE:HD11	2.41	0.51
34:BM:69:GLN:HE21	34:BM:69:GLN:N	2.09	0.51
35:BN:10:VAL:CG1	35:BN:11:ALA:N	2.54	0.51
35:BN:68:GLU:O	35:BN:68:GLU:CG	2.52	0.51
36:BO:114:ILE:CG2	36:BO:134:ALA:HB2	2.41	0.51
29:BF:34:TRP:CE3	36:BO:8:PRO:HB2	2.46	0.51
37:BP:131:ILE:O	37:BP:132:VAL:CG1	2.57	0.51
38:BQ:61:HIS:O	38:BQ:64:ARG:N	2.44	0.51
38:BQ:61:HIS:CE1	38:BQ:64:ARG:CZ	2.92	0.51
38:BQ:99:LYS:O	51:B4:44:THR:HG22	2.11	0.51
39:BR:103:GLU:C	39:BR:106:ARG:HB3	2.32	0.51
40:BS:103:ARG:O	40:BS:107:ASP:OD1	2.28	0.51
40:BS:30:VAL:CG2	40:BS:31:SER:N	2.73	0.51
41:BT:45:TYR:O	41:BT:46:ALA:C	2.49	0.51
41:BT:97:ASP:C	41:BT:101:ARG:NE	2.56	0.51
42:BU:4:ILE:HA	42:BU:12:TYR:CE2	2.45	0.51
42:BU:57:VAL:CG1	42:BU:58:VAL:N	2.64	0.51
42:BU:68:LYS:CG	42:BU:95:LEU:HD11	2.41	0.51
41:BT:50:ARG:NE	42:BU:75:PHE:HE2	2.02	0.51
42:BU:79:VAL:HB	42:BU:81:TYR:CD1	2.45	0.51
42:BU:81:TYR:O	42:BU:82:ARG:CB	2.56	0.51
43:BV:25:ARG:O	43:BV:71:VAL:HG13	2.10	0.51
43:BV:34:ASN:ND2	43:BV:34:ASN:N	2.59	0.51
24:BA:24:G:H1'	43:BV:77:ASP:OD1	2.10	0.51
44:BW:50:LYS:O	44:BW:52:VAL:HG23	2.11	0.51
24:BA:1313:U:OP1	44:BW:63:LYS:HG2	2.11	0.51
24:BA:1335:U:OP2	44:BW:65:ARG:CZ	2.58	0.51
45:BX:32:PRO:HB2	45:BX:34:LYS:CE	2.40	0.51
45:BX:7:VAL:C	45:BX:8:LYS:HD2	2.30	0.51
46:BY:18:LEU:O	46:BY:19:ARG:C	2.48	0.51
46:BY:20:ARG:HH11	46:BY:20:ARG:HG3	1.74	0.51
46:BY:39:VAL:HG12	46:BY:39:VAL:O	2.11	0.51
46:BY:53:ILE:O	46:BY:53:ILE:HG22	2.11	0.51
46:BY:91:LEU:CD1	46:BY:95:PRO:HG3	2.41	0.51
26:BC:209:LEU:HG	26:BC:212:VAL:HG23	1.92	0.51
14:AO:126:LYS:HZ2	14:AO:128:ALA:N	2.06	0.51
3:AD:40:C:H3'	3:AD:41:C:H5''	1.91	0.51
24:BA:2106:G:C6	24:BA:2184:G:C6	2.99	0.51
1:AA:513:C:C4	1:AA:514:C:C5	2.98	0.51
1:AA:1071:C:N4	1:AA:1084:G:N2	2.58	0.51
1:AA:1198:G:O2'	1:AA:1199:U:H5'	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1230:C:O2	15:AP:126:LYS:CD	2.58	0.51
1:AA:1276:G:O2'	1:AA:1277:C:H5'	2.10	0.51
1:AA:135:C:C6	1:AA:135:C:C3'	2.93	0.51
1:AA:1399:C:C4	1:AA:1502:A:N6	2.77	0.51
1:AA:192:U:H5'	22:AW:102:GLY:HA2	1.91	0.51
1:AA:300:A:O5'	1:AA:300:A:H8	1.94	0.51
1:AA:306:G:O5'	1:AA:306:G:C8	2.64	0.51
1:AA:40:C:O2'	1:AA:41:G:H5'	2.10	0.51
1:AA:411:A:C5	1:AA:429:U:C4	2.99	0.51
1:AA:44:G:H2'	1:AA:45:U:O5'	2.10	0.51
1:AA:474:G:H2'	1:AA:475:G:H8	1.76	0.51
1:AA:494:U:C2'	1:AA:495:A:H5'	2.41	0.51
1:AA:527:G:H2'	1:AA:528:C:C6	2.46	0.51
1:AA:531:U:H5''	1:AA:532:A:OP1	2.11	0.51
1:AA:782:A:N1	1:AA:801:U:C2	2.78	0.51
4:AE:97:TRP:CZ3	4:AE:172:ILE:HB	2.46	0.51
4:AE:59:GLU:O	4:AE:62:ALA:HB3	2.11	0.51
4:AE:58:ILE:O	4:AE:61:LEU:CD2	2.58	0.51
5:AF:108:ASN:O	5:AF:110:ASN:N	2.44	0.51
5:AF:116:VAL:C	5:AF:119:ARG:HB3	2.30	0.51
6:AG:147:ALA:O	6:AG:149:ALA:N	2.43	0.51
6:AG:30:LYS:CG	6:AG:35:ARG:HD2	2.39	0.51
6:AG:81:GLU:O	6:AG:85:LYS:HB2	2.11	0.51
7:AH:133:TYR:O	7:AH:136:MET:HB2	2.11	0.51
7:AH:94:ALA:HB1	7:AH:98:THR:CG2	2.31	0.51
8:AI:79:LEU:O	8:AI:81:ILE:N	2.44	0.51
1:AA:1298:C:C6	9:AJ:114:ARG:NH1	2.79	0.51
9:AJ:16:LEU:HD12	11:AL:44:VAL:HG23	1.93	0.51
10:AK:11:THR:HA	10:AK:14:ARG:NH2	2.25	0.51
10:AK:26:VAL:HG13	10:AK:27:PRO:HD2	1.91	0.51
10:AK:39:LEU:HB3	10:AK:45:ILE:CG2	2.38	0.51
10:AK:6:ILE:HG21	10:AK:85:ARG:NH2	2.26	0.51
11:AL:11:LYS:N	11:AL:104:ARG:NH2	2.55	0.51
11:AL:49:PRO:HG3	11:AL:81:ILE:HB	1.92	0.51
13:AN:126:ARG:CZ	13:AN:126:ARG:HB3	2.41	0.51
1:AA:684:A:C3'	13:AN:12:ARG:HH22	2.23	0.51
13:AN:41:THR:HB	13:AN:71:LYS:HD3	1.92	0.51
5:AF:12:LEU:CD2	16:AQ:58:LYS:H	2.20	0.51
18:AS:75:ARG:O	18:AS:78:GLY:N	2.44	0.51
19:AT:29:HIS:CE1	19:AT:31:LEU:HB3	2.46	0.51
19:AT:63:ARG:CG	19:AT:64:PRO:HD2	2.38	0.51
19:AT:81:ARG:HG3	19:AT:84:LEU:HG	1.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:AU:26:LEU:HB2	20:AU:42:ARG:NH1	2.26	0.51
49:B2:31:LEU:HB3	49:B2:32:GLN:HE22	1.74	0.51
49:B2:35:ARG:HH22	49:B2:47:VAL:HG13	1.76	0.51
50:B3:14:ILE:CG1	50:B3:39:CYS:HB2	2.39	0.51
51:B4:10:LYS:CE	51:B4:15:ARG:CZ	2.86	0.51
24:BA:2046:G:H4'	51:B4:22:HIS:HB3	1.93	0.51
38:BQ:99:LYS:HG2	51:B4:43:HIS:CD2	2.45	0.51
54:B7:26:LYS:O	54:B7:28:GLY:N	2.43	0.51
54:B7:44:LYS:NZ	54:B7:44:LYS:HA	2.26	0.51
24:BA:1013:C:H2'	24:BA:1014:U:H6	1.76	0.51
24:BA:996:A:C6	24:BA:1160:G:C2	2.99	0.51
24:BA:1224:G:N7	24:BA:1225:C:C5	2.79	0.51
24:BA:1227:A:H2'	24:BA:1228:G:C5'	2.41	0.51
24:BA:1300:U:O2'	24:BA:1301:A:OP2	2.28	0.51
24:BA:1332:G:H5''	24:BA:1333:C:OP2	2.11	0.51
24:BA:1397:U:OP1	24:BA:1398:C:H5	1.94	0.51
24:BA:141(A):C:C2'	24:BA:142:G:H5'	2.41	0.51
24:BA:1476:C:C5	24:BA:1477:A:C6	2.98	0.51
24:BA:1543:A:H3'	24:BA:1544:C:C5'	2.41	0.51
24:BA:1568:G:P	27:BD:61:LEU:HG	2.51	0.51
24:BA:1575:C:N4	24:BA:1576:U:N3	2.59	0.51
24:BA:1394:U:C4'	24:BA:1603:A:H4'	2.38	0.51
24:BA:1613:G:C1'	53:B6:3:ARG:CZ	2.89	0.51
24:BA:1620:G:H2'	24:BA:1621:U:C6	2.46	0.51
24:BA:1753:G:O6	24:BA:1756:G:C6	2.64	0.51
24:BA:179:G:OP1	53:B6:32:LYS:NZ	2.30	0.51
24:BA:1804:C:C2	24:BA:1805:U:C5	2.98	0.51
24:BA:1970:A:C2'	24:BA:1971:A:OP2	2.59	0.51
24:BA:1980:G:H2'	24:BA:1982:C:OP2	2.11	0.51
24:BA:1854:A:H1'	24:BA:2087:G:N2	2.25	0.51
24:BA:2205:C:C2'	24:BA:2206:C:H5'	2.40	0.51
24:BA:2244:U:H2'	24:BA:2245:U:O5'	2.09	0.51
24:BA:2373:G:H2'	24:BA:2374:C:C5	2.46	0.51
24:BA:2398:U:H2'	24:BA:2399:G:C8	2.45	0.51
24:BA:792:G:C6	24:BA:2440:C:N1	2.78	0.51
24:BA:2533:A:H2'	24:BA:2534:A:O4'	2.10	0.51
24:BA:2544:G:C6	24:BA:2545:G:C5	2.98	0.51
24:BA:746:A:N7	24:BA:2612:C:OP1	2.44	0.51
24:BA:2653:U:N3	24:BA:2654:A:C6	2.79	0.51
24:BA:2662:A:H2'	24:BA:2662:A:N3	2.25	0.51
24:BA:2707:G:C2'	24:BA:2708:G:O5'	2.58	0.51
24:BA:2867:G:H5'	24:BA:2868:A:OP1	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2886:G:N2	24:BA:2887:U:C1'	2.74	0.51
24:BA:327:G:N2	24:BA:328:U:C2	2.79	0.51
24:BA:416:C:C6	24:BA:416:C:H3'	2.46	0.51
24:BA:481:G:O2'	24:BA:482:A:H8	1.92	0.51
24:BA:498:G:C8	24:BA:498:G:O5'	2.61	0.51
24:BA:27:G:C2	24:BA:512:G:C2'	2.93	0.51
24:BA:605:C:H4'	29:BF:102:PRO:HG3	1.91	0.51
24:BA:611:C:O2	24:BA:616:A:C2	2.63	0.51
24:BA:758:C:H2'	24:BA:759:G:H8	1.75	0.51
24:BA:733:G:C5	24:BA:761:A:C6	2.99	0.51
24:BA:774:A:H5''	24:BA:778:G:C4'	2.40	0.51
24:BA:78:A:H2'	24:BA:79:G:C8	2.45	0.51
24:BA:879:G:N1	24:BA:880:G:C5	2.78	0.51
24:BA:879:G:N2	24:BA:880:G:C4	2.79	0.51
24:BA:993:G:C5	24:BA:994:C:N4	2.79	0.51
25:BB:47:C:H6	25:BB:47:C:O5'	1.93	0.51
25:BB:79:C:H2'	25:BB:80:U:C5'	2.41	0.51
27:BD:13:ARG:NH2	27:BD:19:ALA:HB1	2.25	0.51
27:BD:225:ALA:HB3	27:BD:231:HIS:NE2	2.25	0.51
27:BD:55:GLY:N	27:BD:218:ARG:CD	2.73	0.51
27:BD:27:THR:CG2	27:BD:82:ILE:HG21	2.41	0.51
28:BE:66:HIS:NE2	28:BE:71:GLY:N	2.59	0.51
30:BG:110:ALA:HB2	30:BG:139:LEU:HD11	1.92	0.51
24:BA:2312:U:OP2	30:BG:86:MET:HG2	2.09	0.51
31:BH:101:ARG:C	31:BH:117:PRO:HD3	2.31	0.51
33:BL:33:ASN:H	33:BL:37:PHE:HD1	1.56	0.51
24:BA:1060:U:OP1	33:BL:73:PRO:HB3	2.11	0.51
34:BM:112:LEU:O	34:BM:114:ARG:N	2.44	0.51
35:BN:41:ALA:O	35:BN:56:ASP:CA	2.59	0.51
35:BN:15:GLY:HA2	35:BN:47:ILE:CG1	2.41	0.51
36:BO:80:TYR:CE2	36:BO:85:LEU:HD22	2.46	0.51
37:BP:46:GLN:OE1	37:BP:125:LEU:O	2.28	0.51
38:BQ:47:PHE:O	38:BQ:48:VAL:C	2.49	0.51
38:BQ:25:ALA:HB2	38:BQ:48:VAL:HG22	1.93	0.51
38:BQ:55:ALA:HA	38:BQ:80:PHE:HD1	1.75	0.51
38:BQ:63:ARG:HH12	38:BQ:80:PHE:CB	2.24	0.51
39:BR:31:SER:HB3	39:BR:34:HIS:CG	2.45	0.51
39:BR:49:VAL:HG22	39:BR:76:LYS:HZ1	1.75	0.51
40:BS:54:ARG:HE	40:BS:100:TYR:HD1	1.59	0.51
40:BS:30:VAL:CB	40:BS:90:GLN:HA	2.39	0.51
42:BU:83:ARG:HH21	42:BU:85:LYS:HE2	1.76	0.51
43:BV:74:ALA:O	43:BV:75:TYR:CD2	2.64	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:BV:89:ALA:C	43:BV:91:GLY:N	2.63	0.51
44:BW:24:GLY:O	44:BW:83:VAL:CG2	2.58	0.51
44:BW:32:PRO:O	44:BW:33:LYS:HB2	2.11	0.51
46:BY:100:VAL:HG12	46:BY:133:ILE:HD13	1.93	0.51
46:BY:111:VAL:HG22	46:BY:117:LEU:HA	1.93	0.51
46:BY:16:SER:O	46:BY:19:ARG:HB2	2.11	0.51
46:BY:41:LEU:O	46:BY:45:ASP:OD1	2.29	0.51
46:BY:68:PRO:O	46:BY:90:VAL:CA	2.55	0.51
46:BY:9:TYR:HB3	46:BY:14:LYS:HG2	1.93	0.51
47:BZ:20:ARG:O	47:BZ:21:LEU:HB3	2.10	0.51
24:BA:858:U:OP1	47:BZ:44:ARG:NH2	2.43	0.51
32:BK:137:PRO:HB2	32:BK:139:GLN:NE2	2.25	0.51
32:BK:62:LYS:O	32:BK:66:GLU:OE1	2.28	0.51
24:BA:2118:U:C6	24:BA:2147:G:O6	2.64	0.51
24:BA:2119:A:N1	24:BA:2171:A:C6	2.79	0.51
26:BC:21:THR:HG21	26:BC:228:SER:HB3	1.93	0.51
24:BA:1588:C:H2'	24:BA:1589:C:C6	2.44	0.51
1:AA:491:G:O2'	1:AA:492:G:H5'	2.10	0.51
2:A1:30:U:C5'	2:A1:30:U:H6	2.11	0.51
1:AA:1026:G:C8	1:AA:1027:C:H6	2.28	0.51
1:AA:1049:U:O4	16:AQ:3:ARG:HB2	2.11	0.51
1:AA:1051:C:H2'	1:AA:1052:U:C6	2.46	0.51
1:AA:1064:G:N3	1:AA:1066:C:C4	2.78	0.51
1:AA:1212:U:O2'	1:AA:1213:A:H8	1.92	0.51
1:AA:1251:A:C4'	1:AA:1370:G:H4'	2.41	0.51
1:AA:1465:C:C2'	1:AA:1466:C:O5'	2.59	0.51
1:AA:191(D):U:O2'	1:AA:191(E):G:H5'	2.11	0.51
1:AA:270:A:OP2	1:AA:270:A:H8	1.94	0.51
1:AA:323:U:C5	1:AA:324:G:C1'	2.94	0.51
1:AA:380:G:N2	1:AA:383:A:OP2	2.44	0.51
1:AA:27:G:H22	1:AA:557:G:H1'	1.73	0.51
1:AA:759:A:N6	1:AA:760:G:C2	2.79	0.51
1:AA:795:C:C4'	1:AA:1506:U:C2	2.94	0.51
1:AA:848:C:C2	1:AA:849:C:C6	2.98	0.51
1:AA:872:A:C2'	1:AA:873:A:C5'	2.82	0.51
1:AA:955:U:H2'	1:AA:956:U:H6	1.76	0.51
1:AA:967:C:H2'	1:AA:968:A:C8	2.45	0.51
1:AA:1054:C:H41	3:AB:34:G:HO2'	1.57	0.51
3:AB:39:U:H2'	3:AB:40:C:O4'	2.11	0.51
3:AD:75:C:H5''	3:AD:76:A:C1'	2.41	0.51
4:AE:101:MET:HB3	4:AE:105:PHE:CE1	2.46	0.51
5:AF:37:GLN:O	5:AF:38:ARG:C	2.47	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:31:CYS:C	6:AG:33:MET:N	2.64	0.51
6:AG:13:ARG:HA	6:AG:32:ALA:CB	2.41	0.51
6:AG:8:VAL:O	6:AG:11:LEU:HB2	2.11	0.51
7:AH:63:ARG:C	7:AH:66:MET:HG2	2.30	0.51
8:AI:12:PRO:C	8:AI:14:LEU:H	2.14	0.51
8:AI:2:ARG:NE	8:AI:69:GLU:HG2	2.26	0.51
9:AJ:135:VAL:O	9:AJ:139:GLU:OE2	2.29	0.51
9:AJ:42:ILE:HD13	9:AJ:116:ALA:CB	2.41	0.51
9:AJ:72:ARG:HG3	9:AJ:73:MET:N	2.24	0.51
11:AL:49:PRO:HB3	11:AL:101:PHE:CZ	2.46	0.51
11:AL:47:LEU:HD11	11:AL:50:LEU:HD22	1.93	0.51
1:AA:1151:A:P	12:AM:41:PRO:HA	2.50	0.51
13:AN:82:VAL:CG1	13:AN:108:ILE:HG23	2.40	0.51
15:AP:73:GLU:O	15:AP:74:VAL:C	2.50	0.51
1:AA:750:G:H1'	17:AR:22:THR:C	2.31	0.51
17:AR:78:TYR:C	17:AR:78:TYR:CD2	2.84	0.51
17:AR:70:LEU:CD2	17:AR:81:LEU:HD13	2.41	0.51
18:AS:54:GLU:O	18:AS:57:ARG:N	2.44	0.51
18:AS:57:ARG:O	18:AS:58:TYR:C	2.48	0.51
19:AT:32:TYR:O	19:AT:33:GLY:C	2.48	0.51
19:AT:56:VAL:C	19:AT:57:VAL:CG1	2.79	0.51
19:AT:60:ILE:HD13	19:AT:62:SER:HG	1.73	0.51
20:AU:22:VAL:HG22	20:AU:55:ARG:NH1	2.25	0.51
8:AI:97:PHE:CE2	20:AU:31:LEU:HD22	2.46	0.51
21:AV:30:LEU:CG	21:AV:50:ALA:HB2	2.41	0.51
22:AW:13:LEU:CD1	22:AW:13:LEU:H	1.99	0.51
22:AW:37:SER:O	22:AW:41:ILE:HG13	2.09	0.51
22:AW:88:VAL:O	22:AW:92:LEU:HD12	2.11	0.51
52:B5:19:ARG:HH11	52:B5:43:CYS:CB	2.20	0.51
24:BA:243:U:H5'	54:B7:5:LYS:HZ1	1.76	0.51
24:BA:1045:A:P	24:BA:1111:A:H2	2.33	0.51
24:BA:1085:A:O2'	24:BA:1086:A:OP2	2.28	0.51
24:BA:331:A:N6	24:BA:1209:G:H2'	2.24	0.51
24:BA:1226:G:C3'	24:BA:1226:G:C8	2.93	0.51
24:BA:1228:G:H8	24:BA:1228:G:H5'	1.76	0.51
24:BA:1301:A:O2'	24:BA:1302:A:H8	1.92	0.51
24:BA:1466:G:O4'	24:BA:1545(A):A:C2	2.64	0.51
24:BA:13:A:O2'	24:BA:14:A:O5'	2.20	0.51
24:BA:1519:G:H3'	24:BA:1520:U:N1	2.26	0.51
24:BA:1619:G:C2	24:BA:1620:G:C4	2.99	0.51
24:BA:1743:G:C5	24:BA:1746:G:N7	2.79	0.51
24:BA:1754:C:C2	24:BA:1755:A:N9	2.79	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1756:G:H3'	24:BA:1756:G:OP1	2.11	0.51
24:BA:1817:G:P	27:BD:88:ARG:NH1	2.76	0.51
24:BA:1871:A:H2'	24:BA:1872:A:H8	1.75	0.51
24:BA:1942:C:H3'	24:BA:1942:C:OP2	2.11	0.51
24:BA:195:A:C4	24:BA:198:C:N4	2.79	0.51
24:BA:2018:G:OP1	24:BA:2019:A:OP2	2.28	0.51
24:BA:2195:C:C2'	24:BA:2196:C:O4'	2.57	0.51
24:BA:228:A:N6	24:BA:230:U:N3	2.59	0.51
24:BA:2365:G:H4'	47:BZ:60:PHE:CE2	2.45	0.51
24:BA:2400:G:C6	24:BA:2401:U:N3	2.79	0.51
24:BA:412:A:N6	24:BA:2411:A:O2'	2.44	0.51
24:BA:2521:C:C5	24:BA:2522:U:C5	2.99	0.51
24:BA:2507:C:H1'	24:BA:2583:G:H21	1.75	0.51
24:BA:2607:G:N2	24:BA:2608:G:H1'	2.25	0.51
24:BA:2639:A:H2'	24:BA:2640:G:O5'	2.11	0.51
24:BA:263:C:N3	24:BA:264:C:C6	2.79	0.51
24:BA:2716:U:H2'	24:BA:2717:G:C8	2.46	0.51
24:BA:2785:C:C4	24:BA:2786:U:C4	2.99	0.51
24:BA:1709:U:C1'	24:BA:2860:A:H1'	2.39	0.51
24:BA:247:G:O3'	24:BA:386:G:N2	2.44	0.51
24:BA:450:G:H3'	24:BA:451:C:H5'	1.93	0.51
24:BA:533:G:C5	24:BA:534:U:N3	2.79	0.51
24:BA:552:G:C5	24:BA:553:U:C5	2.98	0.51
24:BA:616:A:P	24:BA:616:A:H3'	2.51	0.51
24:BA:696:G:O2'	24:BA:697:C:C5'	2.59	0.51
24:BA:795:C:C2	24:BA:796:C:C5	2.99	0.51
24:BA:822:U:O2'	24:BA:823:G:OP1	2.22	0.51
24:BA:84:A:N6	24:BA:99:U:O2'	2.44	0.51
24:BA:977:G:N7	24:BA:987:G:N1	2.58	0.51
25:BB:100:G:C2'	25:BB:101:A:H8	2.19	0.51
25:BB:117:G:N2	25:BB:118:G:N9	2.59	0.51
25:BB:80:U:C2'	25:BB:81:G:C8	2.93	0.51
27:BD:111:LEU:HD12	27:BD:115:GLN:OE1	2.11	0.51
27:BD:136:ILE:H	27:BD:168:ARG:HH22	1.56	0.51
27:BD:199:ALA:O	27:BD:200:ASP:C	2.48	0.51
27:BD:244:ARG:C	27:BD:252:TRP:CD1	2.84	0.51
27:BD:63:ARG:HH12	27:BD:86:PRO:HD2	1.76	0.51
27:BD:89:SER:O	27:BD:202:LYS:HE3	2.11	0.51
28:BE:185:LYS:O	28:BE:185:LYS:CG	2.58	0.51
28:BE:38:THR:O	28:BE:42:ASP:OD2	2.28	0.51
29:BF:98:SER:O	29:BF:99:TYR:CB	2.58	0.51
30:BG:8:LYS:HD3	30:BG:8:LYS:O	2.09	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:BH:25:LYS:HZ3	31:BH:32:GLU:CB	2.19	0.51
32:BK:31:LEU:O	32:BK:32:PRO:C	2.47	0.51
33:BL:27:LEU:HB3	33:BL:32:ALA:HB3	1.93	0.51
34:BM:106:MET:O	34:BM:108:PRO:HD3	2.10	0.51
34:BM:70:LYS:HZ3	34:BM:86:PRO:HB3	1.76	0.51
35:BN:9:GLU:HB2	35:BN:82:ASN:CB	2.27	0.51
36:BO:126:VAL:HG23	36:BO:127:ALA:N	2.25	0.51
36:BO:122:PRO:CG	36:BO:138:LEU:N	2.74	0.51
36:BO:64:LYS:O	36:BO:64:LYS:CD	2.59	0.51
38:BQ:28:LEU:HD13	38:BQ:28:LEU:C	2.31	0.51
39:BR:38:GLN:O	39:BR:38:GLN:HG3	2.11	0.51
40:BS:3:ARG:O	40:BS:6:LEU:CD2	2.57	0.51
40:BS:93:ARG:CD	40:BS:93:ARG:N	2.74	0.51
40:BS:97:ALA:O	40:BS:99:LEU:N	2.42	0.51
41:BT:25:TRP:O	41:BT:28:ARG:HG2	2.10	0.51
41:BT:65:ILE:O	41:BT:68:ALA:N	2.44	0.51
42:BU:15:GLU:C	42:BU:100:ARG:NH2	2.64	0.51
42:BU:21:ARG:O	42:BU:93:GLU:OE1	2.29	0.51
44:BW:26:TYR:HB3	44:BW:28:PHE:CE1	2.46	0.51
44:BW:58:HIS:NE2	44:BW:77:LYS:NZ	2.56	0.51
46:BY:120:ILE:HB	46:BY:123:ASP:CG	2.32	0.51
46:BY:71:VAL:HG11	46:BY:74:VAL:HG23	1.91	0.51
32:BK:115:ALA:HB2	32:BK:129:THR:C	2.32	0.51
32:BK:114:LEU:C	32:BK:130:TYR:HA	2.32	0.51
32:BK:76:THR:N	32:BK:141:LYS:HE2	2.26	0.51
32:BK:57:ARG:HG2	32:BK:61:ARG:NH2	2.26	0.51
26:BC:163:PHE:HB3	26:BC:171:ILE:HD12	1.92	0.51
26:BC:181:PRO:O	26:BC:184:LYS:HB2	2.11	0.51
48:B1:7:GLU:C	48:B1:10:LYS:HG2	2.30	0.51
6:AG:159:ARG:O	6:AG:163:GLU:HB3	2.11	0.51
1:AA:219:C:O5'	1:AA:219:C:H6	1.94	0.51
29:BF:146:ALA:O	29:BF:148:LEU:HD22	2.10	0.51
1:AA:1094:G:H3'	1:AA:1108:G:H22	1.76	0.51
1:AA:1124:G:N2	1:AA:1126:U:N3	2.39	0.51
1:AA:1224:G:O6	1:AA:1322:C:C1'	2.59	0.51
1:AA:1320:C:H3'	1:AA:1321:C:C5	2.46	0.51
1:AA:1321:C:C6	1:AA:1321:C:C3'	2.94	0.51
1:AA:1326:C:C2	1:AA:1327:C:C6	2.99	0.51
1:AA:1339:A:C2	3:AC:31:A:O2'	2.64	0.51
1:AA:1419:G:C6	1:AA:1482:G:C2	2.99	0.51
1:AA:1506:U:O4	1:AA:1521:G:O3'	2.27	0.51
1:AA:16:A:H2'	1:AA:16:A:N3	2.26	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:247:G:C6	1:AA:248:C:C5	2.99	0.51
1:AA:254:G:O6	1:AA:273:A:N6	2.44	0.51
1:AA:450:G:H5''	1:AA:451:A:O5'	2.11	0.51
1:AA:498:A:O2'	1:AA:500:G:O4'	2.26	0.51
1:AA:25:C:H4'	1:AA:524:G:N3	2.25	0.51
1:AA:598:U:N3	1:AA:599:C:C5	2.78	0.51
1:AA:688:G:C6	1:AA:700:G:C6	2.99	0.51
1:AA:692:U:N3	1:AA:695:A:OP2	2.44	0.51
1:AA:896:C:H2'	1:AA:897:C:H6	1.76	0.51
1:AA:957:U:O2	1:AA:959:A:C8	2.64	0.51
3:AC:74:C:H6	3:AC:75:C:H5''	1.76	0.51
3:AD:32:U:H1'	9:AJ:86:GLN:CD	2.31	0.51
4:AE:152:PHE:CG	4:AE:153:ARG:N	2.77	0.51
4:AE:20:GLU:N	4:AE:39:ILE:HD11	2.25	0.51
4:AE:28:PHE:CD1	4:AE:32:ILE:HD12	2.46	0.51
5:AF:182:ILE:HD11	5:AF:203:PHE:CD1	2.46	0.51
5:AF:179:ARG:HD2	5:AF:206:GLU:OE1	2.10	0.51
5:AF:39:ILE:HG21	5:AF:57:ILE:CD1	2.40	0.51
5:AF:52:LEU:O	5:AF:53:ALA:CB	2.59	0.51
5:AF:78:GLY:O	5:AF:80:GLY:N	2.43	0.51
6:AG:79:PHE:HE1	6:AG:204:ILE:HG23	1.75	0.51
8:AI:40:VAL:HA	8:AI:63:TYR:CD1	2.46	0.51
9:AJ:20:ASP:OD1	9:AJ:22:LEU:HB2	2.10	0.51
9:AJ:78:ARG:NE	9:AJ:80:VAL:HG23	2.26	0.51
12:AM:9:ARG:HH11	12:AM:9:ARG:HB2	1.75	0.51
14:AO:62:SER:C	14:AO:64:TYR:N	2.62	0.51
1:AA:1308:U:H6	15:AP:99:ARG:HH12	1.49	0.51
16:AQ:27:CYS:O	16:AQ:40:CYS:SG	2.69	0.51
16:AQ:41:ARG:O	16:AQ:44:LEU:HB3	2.11	0.51
17:AR:79:ARG:CB	17:AR:79:ARG:NH1	2.74	0.51
19:AT:101:ARG:N	19:AT:101:ARG:HD2	2.25	0.51
19:AT:59:ILE:HG12	19:AT:71:PHE:HB3	1.93	0.51
19:AT:88:TYR:HA	19:AT:91:ARG:HE	1.76	0.51
1:AA:1014:A:O3'	21:AV:14:HIS:HE1	1.94	0.51
23:AX:7:ARG:O	23:AX:12:LYS:HD3	2.11	0.51
23:AX:3:LYS:HZ2	23:AX:13:ILE:HG21	1.75	0.51
49:B2:9:VAL:CG1	49:B2:54:VAL:HA	2.33	0.51
24:BA:1365:A:OP2	50:B3:3:GLU:OE2	2.29	0.51
50:B3:68:ARG:CD	50:B3:68:ARG:H	2.19	0.51
50:B3:68:ARG:O	50:B3:71:ARG:HA	2.11	0.51
24:BA:650:C:P	54:B7:21:LYS:HZ1	2.33	0.51
24:BA:1128:A:C6	24:BA:1129:A:N1	2.79	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1024:G:C6	24:BA:1134:G:H1'	2.46	0.51
24:BA:1168:G:C6	24:BA:1169:G:C6	2.98	0.51
24:BA:116:C:H2'	24:BA:117:G:O5'	2.10	0.51
24:BA:1180:C:C2'	24:BA:1181:C:C6	2.89	0.51
24:BA:126:A:O2'	24:BA:127:A:H5'	2.11	0.51
24:BA:1475:G:C2	24:BA:1476:C:C6	2.98	0.51
24:BA:1476:C:H2'	24:BA:1476:C:O2	2.11	0.51
24:BA:1464:C:C4'	24:BA:1528:A:O2'	2.59	0.51
24:BA:1531:C:C2	24:BA:1532:C:C5	2.97	0.51
24:BA:415:A:O4'	24:BA:1869:G:H5''	2.11	0.51
24:BA:1892:C:N4	24:BA:1893:C:N4	2.58	0.51
24:BA:1897:G:N1	24:BA:1898:U:C2	2.79	0.51
24:BA:1899:G:H3'	24:BA:1899:G:H8	1.75	0.51
24:BA:1956:U:H6	24:BA:1956:U:C5'	2.24	0.51
24:BA:1964:G:HO2'	24:BA:1965:C:P	2.33	0.51
24:BA:1992:G:H1'	24:BA:1993:U:O4	2.11	0.51
24:BA:1997:G:H5'	28:BE:123:ALA:CB	2.41	0.51
24:BA:1999:C:C2	24:BA:2000:G:C8	2.99	0.51
24:BA:2000:G:OP2	38:BQ:2:ARG:CG	2.59	0.51
24:BA:2006:C:O3'	24:BA:2823:A:H2	1.94	0.51
24:BA:2007:C:H5'	24:BA:2824:C:H1'	1.93	0.51
24:BA:203:C:C6	24:BA:204:A:N7	2.79	0.51
24:BA:208:C:H2'	24:BA:209:C:C6	2.46	0.51
24:BA:2209:C:C3'	24:BA:2209:C:C6	2.94	0.51
24:BA:2209:C:H6	24:BA:2209:C:H3'	1.75	0.51
24:BA:2301:C:C2	24:BA:2302:G:C8	2.99	0.51
24:BA:2321:G:C2'	24:BA:2321:G:N3	2.73	0.51
24:BA:2569:G:C4	24:BA:2570:G:C8	2.99	0.51
24:BA:2584:U:C3'	24:BA:2584:U:H6	2.22	0.51
24:BA:2627:G:C2'	24:BA:2628:C:C5'	2.87	0.51
24:BA:2711:A:H3'	24:BA:2714:G:O4'	2.11	0.51
24:BA:387:U:O2'	24:BA:388:G:C8	2.62	0.51
24:BA:458:G:H3'	53:B6:39:ARG:HD2	1.93	0.51
24:BA:471:A:N7	24:BA:472:A:N7	2.59	0.51
24:BA:609:A:C8	24:BA:609(A):G:N7	2.79	0.51
24:BA:625:G:H1	36:BO:100:LEU:HB3	1.76	0.51
24:BA:630:G:H4'	54:B7:46:ARG:HH22	1.75	0.51
24:BA:716:A:C8	24:BA:717:G:C8	2.99	0.51
24:BA:751:A:N7	24:BA:789:A:N6	2.59	0.51
24:BA:922:U:H2'	24:BA:923:C:C5	2.46	0.51
27:BD:120:GLY:O	27:BD:131:LEU:CD1	2.48	0.51
27:BD:148:GLU:O	27:BD:149:PRO:C	2.50	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:77:ALA:HB1	27:BD:95:LEU:CD1	2.40	0.51
27:BD:90:ALA:HA	27:BD:91:ARG:HH12	1.74	0.51
27:BD:92:ILE:HG13	27:BD:93:ALA:N	2.26	0.51
24:BA:2787:C:H5''	28:BE:64:LYS:HD2	1.92	0.51
29:BF:154:VAL:O	29:BF:174:VAL:HG22	2.11	0.51
29:BF:168:ARG:HD3	29:BF:169:ASN:H	1.76	0.51
29:BF:39:TRP:NE1	29:BF:106:ARG:NH2	2.59	0.51
30:BG:104:GLU:HG3	30:BG:105:LYS:H	1.74	0.51
30:BG:57:ALA:H	30:BG:68:PRO:HB2	1.73	0.51
3:AC:57:G:H4'	30:BG:82:LEU:HD21	1.93	0.51
31:BH:54:ARG:HB3	31:BH:54:ARG:NH2	2.26	0.51
32:BK:9:LEU:CB	32:BK:13:GLY:HA3	2.41	0.51
33:BL:52:ILE:HG13	33:BL:80:LYS:NZ	2.26	0.51
34:BM:99:LEU:O	34:BM:102:ALA:N	2.43	0.51
34:BM:23:LEU:HD11	34:BM:62:VAL:CA	2.39	0.51
35:BN:62:VAL:CB	35:BN:82:ASN:O	2.59	0.51
29:BF:31:HIS:ND1	36:BO:11:GLY:CA	2.72	0.51
36:BO:28:GLY:C	36:BO:29:LYS:CG	2.78	0.51
37:BP:6:ARG:HH21	37:BP:8:LYS:H	1.55	0.51
38:BQ:102:GLU:CD	38:BQ:103:ARG:HG2	2.31	0.51
38:BQ:23:ASN:O	38:BQ:26:LYS:HB2	2.11	0.51
38:BQ:82:GLU:O	38:BQ:83:ILE:HD13	2.11	0.51
39:BR:70:GLY:O	39:BR:72:ALA:N	2.43	0.51
42:BU:40:LEU:CG	42:BU:55:ALA:CA	2.89	0.51
44:BW:12:VAL:C	44:BW:14:SER:N	2.65	0.51
45:BX:75:ILE:N	45:BX:100:ALA:CB	2.74	0.51
46:BY:40:ASP:O	46:BY:44:PHE:HB2	2.10	0.51
32:BK:88:ILE:O	32:BK:121:LYS:HE3	2.11	0.51
26:BC:104:LEU:CD2	26:BC:127:LEU:HD23	2.41	0.51
24:BA:2124:G:C2'	26:BC:217:THR:HA	2.41	0.51
15:AP:58:GLU:O	15:AP:61:GLU:HB3	2.11	0.51
48:B1:10:LYS:HB2	48:B1:11:LEU:HD12	1.92	0.51
48:B1:2:ARG:O	48:B1:6:GLU:OE2	2.29	0.51
24:BA:434:U:O2'	24:BA:435:C:O5'	2.23	0.51
24:BA:2152:G:N1	24:BA:2153:G:C6	2.79	0.51
2:A1:9:U:N3	2:A1:13:U:C4	2.80	0.50
1:AA:1039:C:O2'	1:AA:1040:U:H5'	2.11	0.50
1:AA:1109:C:H2'	1:AA:1110:A:C8	2.47	0.50
1:AA:1129:C:C4	1:AA:1139:G:C6	3.00	0.50
1:AA:1279:A:O2'	1:AA:1282:C:N4	2.44	0.50
1:AA:134:A:N6	1:AA:135:C:N4	2.59	0.50
1:AA:145:G:C6	1:AA:178:C:C4	2.99	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1475:G:O2'	1:AA:1476:G:H5'	2.10	0.50
1:AA:1487:G:C2	1:AA:1488:G:C8	2.98	0.50
1:AA:191(C):G:C2'	1:AA:191(D):U:O4'	2.59	0.50
1:AA:210:U:H4'	1:AA:216:G:O5'	2.10	0.50
1:AA:267:C:H2'	1:AA:268:C:C6	2.46	0.50
1:AA:266:G:H22	1:AA:270:A:N6	2.09	0.50
1:AA:294:U:C2	1:AA:295:C:C5	2.99	0.50
1:AA:439:A:H1'	1:AA:496:A:C2	2.46	0.50
1:AA:440:A:H62	1:AA:493:G:H21	1.58	0.50
1:AA:55:A:H2'	1:AA:56:U:C4'	2.41	0.50
1:AA:68:G:C5	1:AA:69:G:C8	2.99	0.50
1:AA:701:C:H4'	1:AA:702:A:OP2	2.12	0.50
1:AA:702:A:N1	24:BA:1848:A:C6	2.78	0.50
1:AA:834:C:C4	1:AA:853:G:N1	2.79	0.50
1:AA:939:G:H2'	1:AA:940:C:C5	2.44	0.50
1:AA:9:G:C8	7:AH:126:ARG:NH2	2.79	0.50
4:AE:57:PHE:C	4:AE:57:PHE:HD2	2.15	0.50
5:AF:11:ARG:HH11	5:AF:15:THR:CG2	2.23	0.50
6:AG:64:LEU:HD13	6:AG:64:LEU:C	2.31	0.50
7:AH:78:HIS:HE2	7:AH:142:LEU:HB3	1.75	0.50
7:AH:147:ASP:O	7:AH:150:ARG:N	2.44	0.50
7:AH:45:PHE:CG	7:AH:45:PHE:O	2.64	0.50
10:AK:14:ARG:HD2	10:AK:15:ASN:HD22	1.76	0.50
10:AK:19:VAL:HB	10:AK:21:LYS:CD	2.41	0.50
11:AL:16:ARG:O	11:AL:63:ILE:HG23	2.10	0.50
14:AO:52:LEU:O	14:AO:52:LEU:HG	2.11	0.50
14:AO:84:LEU:CD2	14:AO:85:ILE:N	2.74	0.50
15:AP:11:ARG:NH1	15:AP:11:ARG:CG	2.71	0.50
15:AP:88:ARG:HE	15:AP:98:VAL:HG11	1.76	0.50
16:AQ:51:GLY:C	16:AQ:53:LEU:N	2.62	0.50
22:AW:13:LEU:CB	22:AW:17:ARG:HH21	2.13	0.50
49:B2:41:PRO:HA	49:B2:44:ARG:HE	1.76	0.50
51:B4:11:THR:O	51:B4:14:ALA:HB3	2.11	0.50
38:BQ:33:ARG:NH2	51:B4:56:LYS:HB2	2.25	0.50
53:B6:5:TRP:CE3	53:B6:5:TRP:CA	2.94	0.50
54:B7:1:MET:N	54:B7:2:PRO:CD	2.73	0.50
54:B7:30:ARG:C	54:B7:34:TRP:HE1	2.14	0.50
54:B7:22:VAL:HB	54:B7:48:PHE:CE2	2.45	0.50
24:BA:1069:A:C8	24:BA:1073:A:N7	2.79	0.50
24:BA:1085:A:O2'	24:BA:1086:A:C4'	2.59	0.50
24:BA:1135:C:C2	24:BA:1136:G:C8	2.99	0.50
24:BA:1305:C:H2'	24:BA:1306:C:C6	2.46	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:137(A):G:C2	24:BA:138:G:O6	2.64	0.50
24:BA:1477:A:OP2	24:BA:1477:A:C8	2.64	0.50
24:BA:1619:G:N2	24:BA:1620:G:C4	2.79	0.50
24:BA:1789:A:H3'	24:BA:1790:C:C4'	2.41	0.50
24:BA:2000:G:H2'	24:BA:2001:A:H8	1.76	0.50
24:BA:2049:G:O2'	24:BA:2050:C:O5'	2.29	0.50
24:BA:2199:A:C4	24:BA:2225:A:N1	2.80	0.50
24:BA:2265:U:O2	24:BA:2265:U:H2'	2.10	0.50
24:BA:2308:G:N3	24:BA:2308:G:C2'	2.73	0.50
24:BA:2407:G:H3'	24:BA:2408:U:H5	1.75	0.50
24:BA:2415:G:C6	24:BA:2416:C:C4	2.99	0.50
24:BA:2462:U:C4	24:BA:2463:C:C4	2.98	0.50
24:BA:246:C:O2	24:BA:246:C:H2'	2.11	0.50
24:BA:2512:C:H2'	24:BA:2513:G:C4'	2.41	0.50
24:BA:2594:C:C2'	24:BA:2595:G:H5'	2.40	0.50
24:BA:2675:A:H2'	24:BA:2676:C:O4'	2.10	0.50
24:BA:2681:C:C4	24:BA:2725:A:N6	2.75	0.50
24:BA:270(A):A:OP2	24:BA:270(B):A:C2	2.64	0.50
24:BA:270(L):U:O2'	24:BA:270(M):U:P	2.69	0.50
24:BA:2711:A:P	24:BA:2712(A):A:P	3.09	0.50
24:BA:2825:C:N3	24:BA:2826:A:N7	2.60	0.50
24:BA:2830:G:H2'	24:BA:2830:G:N3	2.26	0.50
24:BA:2832:U:C1'	24:BA:2834:G:N2	2.58	0.50
24:BA:287:C:C3'	24:BA:288:C:H5	2.23	0.50
24:BA:279:C:N3	24:BA:360:G:O6	2.44	0.50
24:BA:375:C:H2'	24:BA:375:C:O2	2.10	0.50
24:BA:37:C:H2'	24:BA:38:A:H8	1.76	0.50
24:BA:422:A:N1	24:BA:423:A:C2	2.80	0.50
24:BA:451:C:H5	24:BA:453:C:C5'	2.19	0.50
24:BA:493:G:C2	24:BA:494:G:C8	3.00	0.50
24:BA:510:C:C2	24:BA:511:U:C6	2.99	0.50
24:BA:531:C:C4'	24:BA:2035:G:H21	2.24	0.50
24:BA:568:U:H3'	24:BA:570:G:OP2	2.10	0.50
24:BA:760:G:H2'	24:BA:761:A:C5'	2.41	0.50
24:BA:772:C:H2'	24:BA:773:U:C6	2.45	0.50
24:BA:814:C:H4'	24:BA:1224:G:H22	1.76	0.50
24:BA:82:G:H21	24:BA:83:G:N2	2.09	0.50
24:BA:66:C:C4	24:BA:89:G:N1	2.80	0.50
24:BA:975:G:N1	24:BA:976:C:C5	2.79	0.50
24:BA:978:G:C2	24:BA:979:G:C2	3.00	0.50
24:BA:981:A:H1'	24:BA:2037:G:O4'	2.11	0.50
25:BB:66:A:H2	25:BB:108:C:N1	2.09	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:38:C:O5'	25:BB:38:C:H6	1.94	0.50
25:BB:82:G:HO2'	25:BB:83:G:P	2.34	0.50
27:BD:150:LYS:C	27:BD:152:GLY:N	2.65	0.50
27:BD:146:GLU:HA	27:BD:154:LYS:CG	2.41	0.50
27:BD:176:ARG:CG	27:BD:176:ARG:NH1	2.67	0.50
24:BA:2239:G:H1'	27:BD:249:PRO:HB3	1.92	0.50
27:BD:27:THR:CG2	27:BD:82:ILE:CG2	2.89	0.50
28:BE:32:PRO:HB3	28:BE:35:GLN:HE22	1.76	0.50
28:BE:58:ARG:HG2	28:BE:63:LEU:HD21	1.92	0.50
28:BE:52:LEU:CB	28:BE:73:GLU:O	2.57	0.50
29:BF:125:LEU:HD13	29:BF:128:ALA:CB	2.41	0.50
29:BF:110:LEU:HG	29:BF:183:VAL:H	1.77	0.50
29:BF:194:MET:HE1	29:BF:197:ASP:HA	1.92	0.50
29:BF:160:ASN:HB2	29:BF:195:ASP:OD2	2.11	0.50
29:BF:36:VAL:HG11	29:BF:183:VAL:CG2	2.41	0.50
29:BF:34:TRP:O	29:BF:37:VAL:CB	2.59	0.50
30:BG:110:ALA:HB1	30:BG:139:LEU:HD21	1.92	0.50
30:BG:43:LEU:CD1	30:BG:88:ILE:HG22	2.41	0.50
31:BH:103:LEU:HB2	31:BH:115:VAL:CG1	2.41	0.50
34:BM:18:ALA:HB2	34:BM:54:VAL:HG21	1.93	0.50
34:BM:55:VAL:O	34:BM:57:ALA:N	2.43	0.50
24:BA:1131:G:C2	34:BM:74:ARG:HD2	2.46	0.50
35:BN:15:GLY:O	35:BN:47:ILE:HA	2.10	0.50
35:BN:13:ASN:N	35:BN:94:ARG:HB3	2.25	0.50
36:BO:72:PRO:HA	36:BO:110:TYR:CE1	2.45	0.50
36:BO:96:THR:HG21	36:BO:112:LEU:CD1	2.34	0.50
37:BP:112:GLU:HA	37:BP:115:MET:CB	2.40	0.50
37:BP:49:ALA:O	37:BP:50:ALA:C	2.48	0.50
24:BA:2009:G:C1'	38:BQ:107:ASP:O	2.59	0.50
24:BA:1249:U:HO2'	41:BT:6:THR:HG21	1.76	0.50
44:BW:73:ARG:NH2	44:BW:74:PRO:C	2.65	0.50
45:BX:12:THR:HG22	45:BX:13:VAL:CG1	2.41	0.50
46:BY:47:VAL:O	46:BY:48:PHE:C	2.50	0.50
3:AD:57:G:P	3:AD:57:G:H8	2.34	0.50
24:BA:1508:A:C5'	24:BA:1510:A:C5	2.90	0.50
18:AS:67:THR:N	18:AS:70:ALA:HB3	2.26	0.50
24:BA:487:C:N4	24:BA:488:G:C6	2.79	0.50
1:AA:1382:C:C6	1:AA:1383:C:H5	2.29	0.50
1:AA:1028(B):C:O2	1:AA:1028(B):C:C2'	2.58	0.50
24:BA:2153:G:O5'	24:BA:2153:G:H8	1.94	0.50
1:AA:1105:A:O2'	1:AA:1106:G:H5'	2.11	0.50
1:AA:1324:A:C6	1:AA:1325:C:C5	3.00	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1495:U:O2'	1:AA:1496:C:O5'	2.29	0.50
1:AA:559:A:O2'	1:AA:560:U:OP2	2.23	0.50
1:AA:836:G:C2	1:AA:837:G:C8	2.99	0.50
1:AA:850:U:H2'	1:AA:851:G:H8	1.76	0.50
1:AA:836:G:C6	1:AA:851:G:C6	2.99	0.50
1:AA:862:C:C4	1:AA:863:U:C5	2.99	0.50
1:AA:915:A:C8	1:AA:915:A:O5'	2.62	0.50
1:AA:927:G:N1	1:AA:1391:U:C2	2.79	0.50
1:AA:936:C:H2'	1:AA:937:A:C5'	2.41	0.50
1:AA:939:G:N2	1:AA:940:C:N3	2.59	0.50
3:AC:14:A:C4	3:AC:15:G:C8	2.99	0.50
4:AE:124:SER:C	4:AE:126:GLU:H	2.15	0.50
4:AE:150:SER:C	4:AE:153:ARG:HB2	2.32	0.50
4:AE:167:PRO:CG	4:AE:168:THR:H	2.21	0.50
4:AE:16:His:NE2	4:AE:210:SER:HA	2.25	0.50
4:AE:44:LEU:H	4:AE:44:LEU:CD2	2.22	0.50
4:AE:58:ILE:HG23	4:AE:61:LEU:HD13	1.93	0.50
4:AE:80:ILE:CD1	4:AE:208:ILE:CG2	2.87	0.50
4:AE:72:GLY:CA	4:AE:81:VAL:HG21	2.41	0.50
4:AE:82:ARG:CB	4:AE:94:ASN:ND2	2.70	0.50
1:AA:1112:C:O2	5:AF:179:ARG:CZ	2.59	0.50
5:AF:182:ILE:HG23	5:AF:202:ILE:C	2.32	0.50
6:AG:148:VAL:HG11	6:AG:153:ARG:HA	1.92	0.50
6:AG:155:LEU:HD22	6:AG:155:LEU:H	1.77	0.50
6:AG:62:GLN:O	6:AG:66:ARG:HD2	2.10	0.50
6:AG:67:ILE:CD1	6:AG:67:ILE:C	2.79	0.50
7:AH:37:ARG:NH1	7:AH:111:GLU:C	2.65	0.50
7:AH:84:PHE:HB3	7:AH:87:SER:O	2.10	0.50
10:AK:119:LEU:HB3	10:AK:123:GLU:CD	2.31	0.50
10:AK:14:ARG:CA	10:AK:14:ARG:HH11	2.24	0.50
10:AK:70:GLN:C	10:AK:70:GLN:HE21	2.14	0.50
10:AK:84:ARG:O	10:AK:135:CYS:SG	2.69	0.50
11:AL:100:GLY:C	11:AL:101:PHE:CD1	2.84	0.50
11:AL:113:LYS:O	11:AL:115:GLY:N	2.38	0.50
13:AN:121:PRO:HB2	13:AN:125:PHE:HD1	1.75	0.50
1:AA:34:C:O4'	14:AO:32:PHE:CE2	2.64	0.50
14:AO:90:VAL:HB	14:AO:96:VAL:CG1	2.42	0.50
15:AP:125:ARG:O	15:AP:125:ARG:HG3	2.11	0.50
15:AP:29:ARG:HD3	15:AP:64:TRP:CE2	2.46	0.50
15:AP:73:GLU:C	15:AP:75:ALA:N	2.62	0.50
15:AP:90:LEU:CD2	15:AP:93:ARG:HH11	2.24	0.50
15:AP:96:LEU:O	15:AP:98:VAL:N	2.45	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:AR:15:PHE:O	17:AR:16:ALA:C	2.49	0.50
20:AU:26:LEU:HD23	20:AU:29:PHE:HB2	1.93	0.50
8:AI:60:PHE:HE2	20:AU:78:LEU:HD11	1.76	0.50
22:AW:21:LYS:HA	22:AW:24:LEU:CD1	2.36	0.50
48:B1:27:LEU:O	48:B1:30:LEU:HG	2.11	0.50
51:B4:11:THR:OG1	51:B4:11:THR:O	2.27	0.50
51:B4:35:GLU:HG2	51:B4:49:CYS:HB3	1.94	0.50
52:B5:20:ASN:CG	52:B5:42:TRP:CD1	2.85	0.50
24:BA:126:A:H5''	53:B6:18:PHE:HD1	1.76	0.50
55:B8:25:VAL:HG21	55:B8:34:GLN:CD	2.32	0.50
24:BA:1045:A:O4'	24:BA:1045:A:OP2	2.30	0.50
24:BA:1142:U:O2'	24:BA:1142(A):A:H5'	2.11	0.50
24:BA:119:A:HO2'	24:BA:120:U:P	2.34	0.50
24:BA:1257:C:N4	24:BA:1258:C:N4	2.59	0.50
24:BA:1530:G:C5	24:BA:1531:C:N4	2.79	0.50
24:BA:1655:A:C2'	24:BA:1656:C:H6	2.22	0.50
24:BA:1685:C:H2'	24:BA:1686:C:O5'	2.11	0.50
24:BA:1773:A:N7	24:BA:1774:C:N3	2.58	0.50
24:BA:1797:C:O2'	27:BD:257:LEU:HD12	2.11	0.50
24:BA:1819:A:OP2	27:BD:157:ARG:HA	2.11	0.50
24:BA:1856:G:C2'	24:BA:1857:G:H5'	2.33	0.50
24:BA:188:G:H2'	24:BA:189:G:O4'	2.11	0.50
24:BA:1936:A:N3	24:BA:1940:U:O2	2.44	0.50
24:BA:1945:G:H5'	24:BA:1945:G:C8	2.46	0.50
24:BA:1944:U:C1'	24:BA:1955:U:C1'	2.86	0.50
24:BA:2046:G:N3	24:BA:2047:U:C5	2.79	0.50
24:BA:2048:G:H2'	24:BA:2049:G:O5'	2.12	0.50
24:BA:2373:G:C4	24:BA:2374:C:C5	2.99	0.50
24:BA:2431:U:O2'	24:BA:2432:A:C8	2.65	0.50
24:BA:244:A:O2'	36:BO:66:GLY:CA	2.58	0.50
24:BA:245:G:C4	24:BA:246:C:C5	2.95	0.50
24:BA:2557:G:H2'	24:BA:2558:C:C5	2.46	0.50
24:BA:2654:A:H62	24:BA:2667:C:N4	2.09	0.50
24:BA:2740:A:H61	24:BA:2764:A:H1'	1.74	0.50
24:BA:2816:C:HO2'	24:BA:2817:G:H5'	1.77	0.50
24:BA:2844:G:N2	24:BA:2845:G:C1'	2.74	0.50
24:BA:2862:G:C4	24:BA:2863:C:C5	2.99	0.50
24:BA:2837:G:N2	24:BA:2882:A:C4	2.79	0.50
24:BA:2893:G:H4'	24:BA:2894:G:C1'	2.42	0.50
24:BA:299:A:O2'	24:BA:319:C:C4'	2.60	0.50
24:BA:354:G:H8	24:BA:354:G:OP2	1.93	0.50
24:BA:548:A:C5	24:BA:549:G:H1'	2.46	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:641:C:H41	24:BA:646:A:H61	1.59	0.50
24:BA:655:A:O3'	24:BA:656:G:O4'	2.28	0.50
24:BA:771:G:C4	24:BA:772:C:C5	2.98	0.50
24:BA:800:A:HO2'	24:BA:801:G:P	2.32	0.50
24:BA:848:G:H3'	24:BA:848:G:C8	2.46	0.50
24:BA:873:G:H2'	24:BA:874:G:O4'	2.10	0.50
24:BA:874:G:C2'	24:BA:874:G:N3	2.69	0.50
24:BA:905:U:C4	24:BA:906:G:C8	2.99	0.50
24:BA:989:G:O2'	24:BA:990:A:P	2.70	0.50
24:BA:915:C:H1'	25:BB:100:G:H4'	1.93	0.50
25:BB:103:U:C5'	25:BB:103:U:H6	2.24	0.50
25:BB:58:A:C5	25:BB:59:A:N7	2.79	0.50
25:BB:68:C:H3'	25:BB:69:G:C8	2.37	0.50
25:BB:73:A:C2	46:BY:29:TYR:HE1	2.30	0.50
27:BD:106:ILE:O	27:BD:107:ALA:CB	2.58	0.50
27:BD:146:GLU:HG3	27:BD:152:GLY:O	2.11	0.50
27:BD:210:GLY:O	27:BD:214:TRP:HB2	2.12	0.50
27:BD:268:ARG:C	27:BD:269:PHE:CD1	2.85	0.50
27:BD:183:ARG:HG2	27:BD:268:ARG:HD2	1.92	0.50
28:BE:148:GLY:O	28:BE:149:ARG:HG3	2.10	0.50
28:BE:154:LYS:HZ1	28:BE:156:MET:HB2	1.74	0.50
28:BE:5:LEU:HD23	28:BE:6:GLY:C	2.32	0.50
28:BE:47:VAL:CG1	28:BE:79:ARG:HB2	2.41	0.50
28:BE:92:THR:HG23	28:BE:96:PHE:H	1.76	0.50
29:BF:182:ASN:O	29:BF:186:ILE:HG13	2.11	0.50
29:BF:185:ASP:HA	29:BF:188:ARG:CG	2.41	0.50
30:BG:39:ILE:CA	30:BG:157:ILE:HG13	2.41	0.50
31:BH:124:GLU:C	31:BH:126:PRO:HD2	2.31	0.50
33:BL:104:VAL:CG1	33:BL:124:ALA:HA	2.41	0.50
34:BM:109:LYS:HZ1	34:BM:110:GLY:N	2.08	0.50
34:BM:82:LEU:O	34:BM:83:LYS:C	2.50	0.50
35:BN:76:ALA:CB	35:BN:78:ARG:HH22	2.24	0.50
36:BO:112:LEU:O	36:BO:128:HIS:HE1	1.94	0.50
36:BO:114:ILE:HG12	36:BO:130:PHE:CG	2.46	0.50
36:BO:84:ASN:O	36:BO:85:LEU:CG	2.60	0.50
36:BO:88:LEU:HD21	36:BO:124:LYS:NZ	2.26	0.50
37:BP:122:GLY:O	37:BP:124:LYS:C	2.50	0.50
37:BP:134:ARG:NE	37:BP:137:TYR:H	2.06	0.50
37:BP:11:LYS:HD3	37:BP:16:ARG:HH21	1.76	0.50
38:BQ:107:ASP:OD2	38:BQ:108:GLY:N	2.44	0.50
39:BR:106:ARG:C	39:BR:106:ARG:HH11	2.14	0.50
41:BT:17:ILE:HG23	41:BT:20:LEU:HD12	1.92	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BT:48:ALA:O	41:BT:52:ARG:NE	2.44	0.50
41:BT:75:ASN:O	41:BT:79:PHE:HB3	2.11	0.50
42:BU:72:VAL:HG12	42:BU:73:SER:N	2.26	0.50
42:BU:79:VAL:HG12	42:BU:81:TYR:CD1	2.46	0.50
24:BA:566:U:O4'	42:BU:82:ARG:NH2	2.44	0.50
43:BV:7:ALA:H	43:BV:103:ILE:HD13	1.75	0.50
43:BV:78:GLU:CG	43:BV:99:ARG:HB3	2.42	0.50
24:BA:1334:G:P	44:BW:65:ARG:HH12	2.34	0.50
44:BW:61:GLY:N	44:BW:73:ARG:HH12	2.10	0.50
44:BW:88:LYS:O	44:BW:89:ILE:HB	2.12	0.50
44:BW:9:LEU:N	44:BW:9:LEU:CD1	2.66	0.50
46:BY:12:GLY:O	46:BY:15:PRO:HG2	2.10	0.50
46:BY:114:GLY:H	46:BY:145:GLU:CD	2.14	0.50
46:BY:152:ALA:HA	46:BY:155:LEU:HD22	1.93	0.50
47:BZ:56:ASP:C	47:BZ:57:PHE:CD1	2.85	0.50
32:BK:57:ARG:HG3	32:BK:57:ARG:HH11	1.77	0.50
32:BK:79:ILE:O	32:BK:144:VAL:CG2	2.59	0.50
26:BC:163:PHE:HZ	26:BC:195:ALA:HB3	1.75	0.50
26:BC:22:ILE:HG12	26:BC:224:ILE:HD12	1.94	0.50
1:AA:160:A:O2'	1:AA:161:A:H5'	2.11	0.50
3:AB:4:C:C2	3:AB:5:G:N7	2.79	0.50
1:AA:1128:C:H4'	1:AA:1148:U:C5	2.46	0.50
1:AA:116:A:C8	1:AA:116:A:O5'	2.65	0.50
1:AA:1189:C:O2'	1:AA:1190:G:H5'	2.11	0.50
1:AA:1202:G:H21	1:AA:1203:C:H1'	1.70	0.50
1:AA:1259:C:O2'	1:AA:1283:G:N2	2.43	0.50
1:AA:1277:C:C2'	1:AA:1279:A:H8	2.24	0.50
1:AA:1303:C:N4	1:AA:1304:G:C2	2.79	0.50
1:AA:1324:A:C6	1:AA:1325:C:C4	3.00	0.50
1:AA:136:C:H2'	1:AA:137:C:C6	2.46	0.50
1:AA:22:G:C4	1:AA:23:C:C6	2.98	0.50
1:AA:126:G:C6	1:AA:236:G:O6	2.65	0.50
1:AA:308:C:O2	1:AA:309:G:C8	2.64	0.50
1:AA:356:A:H2'	1:AA:357:G:O4'	2.11	0.50
1:AA:49:U:C4	1:AA:364:A:N7	2.79	0.50
1:AA:409:G:H2'	1:AA:410:G:O5'	2.12	0.50
1:AA:558:G:C4'	1:AA:559:A:H5''	2.42	0.50
1:AA:622:A:H2'	1:AA:623:C:H5'	1.93	0.50
1:AA:611:A:N6	1:AA:629:G:C6	2.74	0.50
1:AA:606:G:N2	1:AA:631:G:N3	2.59	0.50
1:AA:957:U:H1'	1:AA:960:U:H5	1.76	0.50
1:AA:978:A:H61	1:AA:1361:G:N2	2.05	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:142:LEU:HD23	4:AE:142:LEU:C	2.31	0.50
4:AE:149:LEU:O	4:AE:150:SER:C	2.50	0.50
4:AE:208:ILE:HD13	4:AE:239:VAL:HG11	1.94	0.50
4:AE:85:ALA:O	4:AE:86:GLU:C	2.50	0.50
4:AE:9:GLU:OE1	4:AE:12:GLU:HG2	2.10	0.50
5:AF:172:ARG:NH1	5:AF:174:PRO:HD3	2.25	0.50
5:AF:28:GLN:CD	5:AF:29:TYR:N	2.64	0.50
6:AG:104:VAL:HG11	6:AG:140:VAL:CG2	2.26	0.50
1:AA:404:U:P	6:AG:118:ARG:NH1	2.84	0.50
1:AA:404:U:H5'	6:AG:122:ARG:HD3	1.94	0.50
6:AG:19:LEU:O	6:AG:20:TYR:C	2.48	0.50
6:AG:61:LYS:HA	6:AG:203:VAL:HG22	1.93	0.50
7:AH:127:ASN:OD1	7:AH:127:ASN:O	2.29	0.50
10:AK:121:ASP:O	10:AK:122:ARG:C	2.49	0.50
10:AK:89:PRO:CB	10:AK:92:ARG:HH21	2.23	0.50
1:AA:1342:C:O2'	11:AL:124:GLN:HA	2.11	0.50
12:AM:22:LYS:NZ	12:AM:90:LEU:CD1	2.73	0.50
12:AM:48:THR:CA	12:AM:62:HIS:HB3	2.40	0.50
14:AO:8:ASN:O	14:AO:9:GLN:C	2.50	0.50
17:AR:46:HIS:O	17:AR:47:LYS:HB2	2.11	0.50
18:AS:21:VAL:N	18:AS:36:ILE:HD11	2.26	0.50
19:AT:10:VAL:CB	19:AT:54:GLY:H	2.24	0.50
19:AT:29:HIS:CD2	19:AT:30:PRO:HD2	2.47	0.50
19:AT:51:TYR:CE1	19:AT:73:VAL:HG11	2.46	0.50
19:AT:10:VAL:HB	19:AT:55:ASP:N	2.26	0.50
19:AT:75:ARG:CG	19:AT:76:LEU:N	2.74	0.50
20:AU:63:GLN:HA	20:AU:66:LEU:HD21	1.94	0.50
20:AU:81:PHE:O	20:AU:82:THR:CB	2.59	0.50
48:B1:26:GLU:O	48:B1:29:GLU:CB	2.60	0.50
50:B3:38:LYS:HG2	50:B3:40:HIS:ND1	2.26	0.50
24:BA:2230:G:O2'	50:B3:40:HIS:O	2.13	0.50
24:BA:1009:A:O4'	41:BT:59:ARG:CZ	2.59	0.50
24:BA:1011:G:OP2	41:BT:75:ASN:CG	2.50	0.50
24:BA:1013:C:OP2	24:BA:1142:U:O2	2.30	0.50
24:BA:1019:U:OP1	24:BA:1120:G:N2	2.42	0.50
24:BA:1155:A:O2'	24:BA:1156:A:C5'	2.60	0.50
24:BA:120:U:C2	24:BA:149:A:C2	2.99	0.50
24:BA:1308:A:H61	24:BA:1606:G:H1'	1.76	0.50
24:BA:1364:G:C2	24:BA:1368:G:C5	2.99	0.50
24:BA:1410:G:H2'	24:BA:1411:C:C6	2.46	0.50
24:BA:143:C:C2	24:BA:144:C:H5	2.27	0.50
24:BA:1532:C:N4	24:BA:1540:G:C2	2.80	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1324:G:C1'	24:BA:1616:A:H62	2.24	0.50
24:BA:1655:A:H5''	28:BE:113:PHE:C	2.32	0.50
24:BA:1672:C:N4	24:BA:1673:U:C5	2.79	0.50
24:BA:1675:C:H2'	24:BA:1676:A:H5'	1.93	0.50
24:BA:1750:G:O2'	24:BA:1751:C:C5'	2.59	0.50
24:BA:179:G:H5'	53:B6:32:LYS:HZ1	1.71	0.50
24:BA:1807:G:C2	24:BA:1809:A:OP2	2.64	0.50
24:BA:1890:A:N3	24:BA:1891:G:H1'	2.26	0.50
24:BA:1912:A:H8	24:BA:1913:A:C1'	2.25	0.50
24:BA:1906:G:C4	24:BA:1929:G:N7	2.79	0.50
24:BA:2072:G:N3	24:BA:2073:C:C5	2.79	0.50
24:BA:2260:C:O2'	24:BA:2261:C:H5'	2.11	0.50
24:BA:2261:C:OP1	47:BZ:17:GLN:CB	2.59	0.50
24:BA:230:U:H2'	24:BA:231:C:O4'	2.11	0.50
24:BA:2328:A:H2'	24:BA:2329:G:C8	2.45	0.50
24:BA:234:C:H2'	24:BA:235:U:O5'	2.10	0.50
24:BA:2327:A:C5	24:BA:2388:A:N1	2.79	0.50
24:BA:2409:G:C2	24:BA:2410:G:H1'	2.46	0.50
24:BA:243:U:C4	24:BA:244:A:C8	3.00	0.50
24:BA:2491:U:H5	24:BA:2492:U:OP2	1.94	0.50
24:BA:2512:C:H2'	24:BA:2513:G:C5'	2.41	0.50
24:BA:2519:U:C6	24:BA:2542:A:N6	2.79	0.50
24:BA:2637:U:OP1	28:BE:81:ILE:HD11	2.10	0.50
24:BA:270(X):G:O6	24:BA:270(Y):G:N3	2.43	0.50
24:BA:2749:A:C8	24:BA:2749:A:OP2	2.62	0.50
24:BA:2748:A:N1	24:BA:2757:A:N6	2.59	0.50
24:BA:527:C:H5	24:BA:2780:G:OP1	1.94	0.50
24:BA:2807:G:N3	24:BA:2808:U:C5	2.79	0.50
24:BA:2830:G:H5'	28:BE:57:LYS:CE	2.42	0.50
24:BA:2872:G:C2	24:BA:2873:A:C6	3.00	0.50
24:BA:295:G:O4'	24:BA:345:A:H2	1.93	0.50
24:BA:484:C:H2'	24:BA:485:C:C5	2.44	0.50
24:BA:558:G:N3	24:BA:559:G:N7	2.59	0.50
24:BA:575:A:C2'	24:BA:576:U:H5'	2.42	0.50
24:BA:637:A:H4'	24:BA:638:G:C4'	2.41	0.50
24:BA:714:U:O2'	24:BA:715:G:N7	2.40	0.50
24:BA:751:A:H4'	43:BV:90:ARG:NE	2.26	0.50
24:BA:753:C:H2'	24:BA:754:C:C6	2.46	0.50
24:BA:815:C:C4	24:BA:1193:G:N1	2.78	0.50
24:BA:821:A:OP1	24:BA:822:U:C6	2.65	0.50
24:BA:906:G:N3	24:BA:906:G:C2'	2.73	0.50
24:BA:980:A:C5	24:BA:981:A:C2	3.00	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:110:G:C2'	25:BB:111:U:O5'	2.58	0.50
25:BB:49:C:OP1	39:BR:96:GLY:HA3	2.10	0.50
25:BB:58:A:N6	25:BB:59:A:C6	2.79	0.50
27:BD:111:LEU:HB3	27:BD:115:GLN:CD	2.32	0.50
27:BD:182:LEU:O	27:BD:268:ARG:HA	2.11	0.50
27:BD:79:VAL:HG12	27:BD:81:ALA:HA	1.94	0.50
28:BE:132:HIS:O	28:BE:133:LYS:CB	2.59	0.50
28:BE:144:ARG:O	28:BE:146:THR:N	2.45	0.50
24:BA:2052:G:C4	28:BE:150:VAL:HB	2.45	0.50
30:BG:107:LEU:HD12	30:BG:111:LEU:CD1	2.39	0.50
30:BG:17:PRO:HA	30:BG:20:ILE:CB	2.39	0.50
31:BH:85:LYS:HZ3	31:BH:142:GLY:HA2	1.73	0.50
33:BL:12:LEU:CD1	33:BL:23:VAL:CG2	2.89	0.50
33:BL:79:ARG:HA	33:BL:82:ALA:HB3	1.93	0.50
34:BM:12:ARG:O	34:BM:12:ARG:CD	2.55	0.50
34:BM:135:PRO:O	34:BM:136:GLU:O	2.29	0.50
35:BN:106:LEU:O	35:BN:109:LYS:N	2.44	0.50
36:BO:114:ILE:N	36:BO:129:ALA:O	2.45	0.50
36:BO:130:PHE:HB3	36:BO:134:ALA:HB1	1.93	0.50
24:BA:833:U:H4'	36:BO:49:ARG:HE	1.77	0.50
37:BP:16:ARG:O	37:BP:17:LEU:CG	2.60	0.50
38:BQ:22:ARG:O	38:BQ:23:ASN:C	2.48	0.50
38:BQ:75:LEU:O	38:BQ:78:LYS:HB3	2.11	0.50
39:BR:74:ALA:CB	39:BR:108:GLY:HA3	2.35	0.50
40:BS:18:ASP:O	40:BS:19:LEU:CB	2.58	0.50
40:BS:5:ALA:O	40:BS:8:LYS:HB2	2.11	0.50
40:BS:92:GLY:C	40:BS:93:ARG:NE	2.63	0.50
42:BU:56:SER:O	42:BU:56:SER:OG	2.23	0.50
42:BU:35:LEU:C	42:BU:61:VAL:HG13	2.30	0.50
43:BV:29:LEU:HD23	43:BV:29:LEU:C	2.31	0.50
43:BV:50:VAL:HG21	43:BV:103:ILE:HG13	1.94	0.50
45:BX:75:ILE:CG2	45:BX:100:ALA:HB2	2.29	0.50
45:BX:15:VAL:HG12	45:BX:16:ALA:H	1.77	0.50
45:BX:32:PRO:C	45:BX:34:LYS:N	2.65	0.50
45:BX:40:GLU:N	45:BX:62:GLU:OE2	2.44	0.50
45:BX:70:SER:O	45:BX:71:LYS:O	2.30	0.50
26:BC:93:TYR:CE1	26:BC:109:ASP:CB	2.94	0.50
26:BC:134:ARG:HB2	26:BC:136:LEU:HG	1.93	0.50
26:BC:26:ALA:CB	26:BC:182:PRO:HA	2.39	0.50
26:BC:213:TYR:CZ	26:BC:223:ARG:NH2	2.79	0.50
26:BC:8:ARG:O	26:BC:12:GLU:HG2	2.12	0.50
24:BA:2102:U:C4	24:BA:2103:C:N4	2.80	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:273(F):C:O2	24:BA:363(A):A:C6	2.65	0.50
1:AA:1015:A:H2'	1:AA:1016:A:H8	1.76	0.50
1:AA:1101:A:C4'	1:AA:1102:A:O5'	2.52	0.50
1:AA:1362(A):C:H5'	1:AA:1363:A:O5'	2.11	0.50
1:AA:1401:G:H2'	1:AA:1402:C:C4'	2.41	0.50
1:AA:1463:C:O2'	1:AA:1464:G:H5'	2.12	0.50
1:AA:1517:G:N2	1:AA:1518:A:C1'	2.73	0.50
1:AA:245:C:N3	1:AA:284:G:N1	2.59	0.50
1:AA:577:G:N2	1:AA:578:C:C2	2.79	0.50
1:AA:579:G:C6	1:AA:580:U:C5	3.00	0.50
1:AA:595:G:N7	1:AA:641:U:N3	2.59	0.50
1:AA:712:A:H2'	1:AA:713:G:C8	2.47	0.50
1:AA:739:C:H2'	1:AA:740:U:H5'	1.94	0.50
1:AA:750:G:H1'	17:AR:23:GLY:CA	2.42	0.50
1:AA:778:G:C5	1:AA:779:C:C5	2.99	0.50
1:AA:792:A:C4	1:AA:794:A:N6	2.79	0.50
1:AA:829:G:O2'	1:AA:830:G:H5'	2.12	0.50
1:AA:663:A:C5'	1:AA:836:G:OP1	2.57	0.50
1:AA:848:C:N3	1:AA:849:C:C5	2.79	0.50
1:AA:872:A:C2	1:AA:874:G:O6	2.64	0.50
1:AA:899:C:N4	1:AA:900:A:C6	2.79	0.50
3:AC:21:A:N6	3:AC:46:G:N1	2.59	0.50
3:AC:73:A:HO2'	3:AC:74:C:P	2.34	0.50
3:AD:70:G:H2'	3:AD:71:G:C8	2.46	0.50
6:AG:105:VAL:HG13	6:AG:120:LEU:HD21	1.93	0.50
6:AG:123:HIS:CB	6:AG:125:HIS:HE1	2.24	0.50
6:AG:100:ARG:NH2	6:AG:136:PRO:O	2.44	0.50
6:AG:110:PHE:HZ	6:AG:147:ALA:CB	2.24	0.50
6:AG:170:VAL:CG1	6:AG:171:GLY:H	2.24	0.50
6:AG:66:ARG:O	6:AG:68:TYR:N	2.44	0.50
7:AH:7:GLU:HG2	7:AH:112:LEU:CD2	2.41	0.50
9:AJ:87:VAL:CG1	9:AJ:152:ALA:HA	2.31	0.50
9:AJ:49:ILE:HG21	9:AJ:121:ALA:CB	2.30	0.50
9:AJ:75:VAL:HG22	9:AJ:88:PRO:CB	2.41	0.50
10:AK:40:ALA:CB	10:AK:45:ILE:HG23	2.41	0.50
13:AN:69:ALA:O	13:AN:72:ALA:N	2.44	0.50
15:AP:48:LEU:CD1	15:AP:53:VAL:HA	2.41	0.50
16:AQ:10:ALA:C	16:AQ:12:ARG:N	2.64	0.50
17:AR:36:ILE:CG2	17:AR:37:ASN:N	2.73	0.50
18:AS:74:LEU:HD22	18:AS:79:VAL:CG2	2.42	0.50
18:AS:75:ARG:HG3	18:AS:80:PHE:CD1	2.46	0.50
19:AT:26:GLN:O	19:AT:27:PHE:HB3	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
21:AV:39:THR:HG22	21:AV:39:THR:O	2.11	0.50
21:AV:51:VAL:O	21:AV:58:VAL:HG22	2.11	0.50
22:AW:42:GLN:O	22:AW:43:LEU:C	2.49	0.50
24:BA:396:G:OP1	50:B3:10:VAL:HG13	2.11	0.50
51:B4:31:VAL:HG23	51:B4:32:PRO:N	2.25	0.50
51:B4:34:PRO:HB3	51:B4:40:LYS:NZ	2.26	0.50
53:B6:32:LYS:CA	53:B6:35:ARG:HD3	2.41	0.50
54:B7:33:ASN:C	54:B7:34:TRP:CG	2.83	0.50
54:B7:6:THR:HG23	54:B7:9:GLY:CA	2.39	0.50
24:BA:1056:G:N2	24:BA:1104:C:N4	2.59	0.50
24:BA:1096:A:C5	24:BA:1097:U:H1'	2.46	0.50
24:BA:1142(A):A:O5'	24:BA:1142(A):A:C8	2.65	0.50
24:BA:1157:G:OP2	24:BA:1158:C:OP2	2.30	0.50
24:BA:1208:C:N4	24:BA:1209:G:C6	2.79	0.50
24:BA:1237:A:O2'	24:BA:1238:G:O5'	2.30	0.50
24:BA:809:G:O2'	24:BA:1254:A:N3	2.35	0.50
24:BA:1287:A:H3'	24:BA:1288:U:C6	2.46	0.50
24:BA:1381:G:C6	24:BA:1382:G:C5	3.00	0.50
24:BA:1472:A:O2'	24:BA:1473:G:C8	2.62	0.50
24:BA:155:C:O2	24:BA:171:G:N2	2.44	0.50
24:BA:1730:U:H6	24:BA:1730:U:O5'	1.93	0.50
24:BA:1789:A:OP1	27:BD:222:ARG:CG	2.51	0.50
24:BA:17:G:H4'	41:BT:25:TRP:CZ3	2.46	0.50
24:BA:1826:G:O5'	24:BA:1826:G:C8	2.64	0.50
24:BA:1833:U:C2	24:BA:1834:U:O2	2.65	0.50
24:BA:184:C:O2	24:BA:185:U:C5	2.65	0.50
24:BA:563:G:C5	24:BA:2018:G:N1	2.79	0.50
24:BA:2052:G:O2'	24:BA:2053:G:H5'	2.11	0.50
24:BA:2243:U:C2	24:BA:2244:U:C5	3.00	0.50
24:BA:2329:G:H1	24:BA:2386:C:H41	1.57	0.50
24:BA:2343:C:O2	24:BA:2344:U:C6	2.65	0.50
24:BA:2399:G:C2	24:BA:2400:G:C1'	2.89	0.50
24:BA:2548:G:C6	24:BA:2561:A:C6	3.00	0.50
24:BA:262:A:H2'	24:BA:263:C:H6	1.76	0.50
24:BA:374:A:N6	24:BA:401:A:H1'	2.27	0.50
24:BA:408:G:C4	24:BA:409:C:C6	3.00	0.50
24:BA:497:A:O5'	24:BA:497:A:H8	1.95	0.50
24:BA:504:U:H6	24:BA:504:U:OP2	1.94	0.50
24:BA:514:A:N3	24:BA:514:A:H2'	2.27	0.50
24:BA:530:G:N2	24:BA:2021:C:C6	2.80	0.50
24:BA:530:G:N2	24:BA:2021:C:H2'	2.27	0.50
24:BA:534:U:HO2'	41:BT:49:HIS:CE1	2.25	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:605:C:OP1	29:BF:104:LYS:HD2	2.12	0.50
24:BA:611:C:N4	24:BA:618:G:H1	2.10	0.50
24:BA:630:G:OP1	54:B7:46:ARG:NH1	2.44	0.50
24:BA:66:C:C4	24:BA:67:U:C5	2.99	0.50
24:BA:678:C:C2	24:BA:679:C:C5	2.99	0.50
24:BA:72:U:H5	24:BA:112:U:C2'	2.23	0.50
24:BA:685:A:C4	24:BA:774:A:C6	2.99	0.50
24:BA:847:U:C4	24:BA:933:A:C2	3.00	0.50
24:BA:918:A:C8	25:BB:80:U:C4'	2.93	0.50
24:BA:943:U:H5''	24:BA:944:G:O6	2.12	0.50
25:BB:46:A:C2'	25:BB:47:C:C6	2.78	0.50
25:BB:73:A:HO2'	25:BB:74:U:C5'	2.24	0.50
25:BB:87:G:C2	25:BB:90:C:C4	3.00	0.50
27:BD:13:ARG:HH12	27:BD:19:ALA:HB1	1.75	0.50
27:BD:36:PRO:O	27:BD:37:LEU:HD22	2.11	0.50
27:BD:63:ARG:CD	27:BD:65:ILE:HD11	2.42	0.50
28:BE:7:VAL:HG13	28:BE:194:GLY:C	2.31	0.50
28:BE:102:VAL:HG23	28:BE:200:GLU:OE2	2.11	0.50
28:BE:4:ILE:HD12	28:BE:76:ARG:NH2	2.26	0.50
28:BE:91:VAL:HG11	28:BE:93:VAL:CG2	2.37	0.50
28:BE:91:VAL:HG13	28:BE:95:ILE:HD13	1.92	0.50
28:BE:92:THR:HG23	28:BE:95:ILE:HG22	1.93	0.50
29:BF:162:LEU:O	29:BF:165:ARG:HB3	2.11	0.50
29:BF:29:ASN:ND2	29:BF:29:ASN:C	2.62	0.50
30:BG:173:LEU:HA	30:BG:176:LEU:HB3	1.92	0.50
30:BG:57:ALA:CA	30:BG:68:PRO:N	2.68	0.50
31:BH:102:ALA:HB1	31:BH:115:VAL:H	1.76	0.50
31:BH:157:TYR:CD1	31:BH:157:TYR:C	2.85	0.50
33:BL:108:ALA:HB1	33:BL:123:ALA:HB1	1.90	0.50
33:BL:12:LEU:HD13	33:BL:23:VAL:CG2	2.40	0.50
34:BM:63:THR:OG1	34:BM:65:LYS:HD3	2.12	0.50
34:BM:66:LYS:N	34:BM:69:GLN:OE1	2.44	0.50
35:BN:22:ILE:HB	35:BN:40:VAL:CG1	2.40	0.50
35:BN:11:ALA:CB	35:BN:97:ARG:HH22	2.24	0.50
36:BO:9:ASN:O	36:BO:10:PRO:C	2.49	0.50
36:BO:10:PRO:O	36:BO:11:GLY:O	2.29	0.50
36:BO:130:PHE:HE1	36:BO:145:PRO:HB3	1.77	0.50
37:BP:51:ARG:HE	37:BP:55:VAL:HG21	1.77	0.50
37:BP:89:ASN:ND2	37:BP:89:ASN:N	2.56	0.50
38:BQ:20:LEU:HD22	38:BQ:24:GLN:HG3	1.89	0.50
24:BA:2820:A:N3	38:BQ:5:LYS:HG3	2.25	0.50
39:BR:57:LYS:NZ	39:BR:62:LYS:CB	2.74	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BR:26:LEU:N	39:BR:88:ASP:HB2	2.25	0.50
39:BR:92:TYR:O	39:BR:98:VAL:HG21	2.11	0.50
40:BS:19:LEU:O	40:BS:21:GLU:HG2	2.10	0.50
40:BS:67:SER:HA	40:BS:75:ILE:CG2	2.41	0.50
40:BS:80:SER:O	40:BS:81:PRO:C	2.47	0.50
41:BT:93:LYS:O	41:BT:94:ASN:ND2	2.44	0.50
42:BU:22:VAL:HG12	42:BU:23:GLU:N	2.26	0.50
41:BT:89:GLU:N	42:BU:52:VAL:HA	2.23	0.50
43:BV:16:LYS:CD	43:BV:16:LYS:N	2.62	0.50
43:BV:38:TYR:HD1	43:BV:38:TYR:N	2.08	0.50
45:BX:45:VAL:HA	45:BX:57:GLN:CG	2.41	0.50
46:BY:99:TYR:CZ	46:BY:124:ILE:HB	2.46	0.50
24:BA:2158:A:O2'	24:BA:2159:G:P	2.70	0.50
26:BC:90:GLY:CA	26:BC:157:LYS:HB2	2.38	0.50
26:BC:10:LEU:HD12	26:BC:32:LEU:HD23	1.94	0.50
26:BC:56:GLN:NE2	26:BC:203:GLY:C	2.65	0.50
26:BC:73:ARG:HG2	26:BC:92:ASP:CG	2.31	0.50
26:BC:94:VAL:C	26:BC:99:ILE:HD12	2.32	0.50
1:AA:336:C:C2	1:AA:337:C:C5	2.99	0.50
1:AA:341:C:O2'	1:AA:342:C:O5'	2.29	0.50
26:BC:34:THR:O	26:BC:35:ALA:O	2.30	0.50
1:AA:1031:G:O2'	1:AA:1032:A:H5'	2.10	0.50
2:A1:3:U:H2'	2:A1:4:U:C5	2.47	0.50
1:AA:926:G:H22	2:A1:39:U:P	2.33	0.50
1:AA:108:G:C2	1:AA:109:A:N1	2.80	0.50
1:AA:1128:C:C4	1:AA:1139:G:O6	2.64	0.50
1:AA:1148:U:O2	1:AA:1148:U:C2'	2.58	0.50
1:AA:1117:G:N2	1:AA:1184:G:C4	2.80	0.50
1:AA:1255:G:H1'	1:AA:1259:C:H1'	1.93	0.50
1:AA:16:A:O4'	7:AH:17:ALA:HB3	2.12	0.50
1:AA:258:G:C6	1:AA:259:G:O6	2.65	0.50
1:AA:262:A:C4'	22:AW:74:LYS:HG3	2.41	0.50
1:AA:295:C:N4	1:AA:303:A:C2	2.80	0.50
1:AA:32:A:N6	1:AA:553:A:N6	2.59	0.50
1:AA:393:A:H2'	1:AA:394:G:H8	1.77	0.50
1:AA:410:G:N2	1:AA:429:U:N3	2.60	0.50
1:AA:465:A:N6	18:AS:82:GLN:HE22	2.10	0.50
1:AA:50:A:O2'	1:AA:360:A:C2	2.63	0.50
1:AA:27:G:C6	1:AA:557:G:C2	3.00	0.50
1:AA:627:G:O2'	1:AA:628:G:C5'	2.57	0.50
1:AA:671:G:H2'	1:AA:672:U:H1'	1.93	0.50
1:AA:686:U:C4'	1:AA:686:U:OP1	2.60	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:860:A:N7	1:AA:861:G:C4	2.79	0.50
1:AA:885:G:C2	1:AA:913:A:N1	2.80	0.50
1:AA:96:G:C2	1:AA:97:U:C2	3.00	0.50
1:AA:997:U:H6	1:AA:997:U:OP2	1.94	0.50
3:AB:74:C:H2'	3:AB:75:C:O4'	2.11	0.50
3:AB:9:A:C4	3:AB:46:G:N2	2.79	0.50
4:AE:114:ARG:O	4:AE:118:LEU:HB2	2.11	0.50
4:AE:28:PHE:CA	4:AE:194:PRO:HG2	2.41	0.50
4:AE:69:LEU:HB3	4:AE:162:ILE:CG2	2.36	0.50
5:AF:28:GLN:NE2	5:AF:29:TYR:N	2.60	0.50
5:AF:78:GLY:HA3	5:AF:82:GLU:OE1	2.11	0.50
5:AF:91:LEU:CD2	5:AF:91:LEU:C	2.79	0.50
6:AG:169:LYS:HA	6:AG:176:LEU:CD1	2.41	0.50
6:AG:199:ASN:OD1	6:AG:202:LEU:HG	2.12	0.50
6:AG:88:VAL:HG13	7:AH:97:GLY:HA3	1.93	0.50
7:AH:115:VAL:HG11	7:AH:118:ILE:CD1	2.41	0.50
8:AI:46:ARG:NH2	20:AU:37:VAL:HG13	2.27	0.50
9:AJ:5:ARG:C	9:AJ:5:ARG:HH11	2.15	0.50
1:AA:826:C:H5'	10:AK:12:ARG:CZ	2.41	0.50
10:AK:112:LEU:HD12	10:AK:131:GLY:O	2.11	0.50
10:AK:26:VAL:O	10:AK:58:TYR:HD1	1.94	0.50
11:AL:97:LYS:HB3	11:AL:98:PRO:CD	2.39	0.50
13:AN:57:THR:HG21	13:AN:59:TYR:HB3	1.93	0.50
13:AN:70:LYS:HD2	13:AN:70:LYS:H	1.77	0.50
15:AP:20:THR:OG1	15:AP:26:GLY:HA2	2.11	0.50
15:AP:67:GLU:HG3	15:AP:68:GLY:N	2.23	0.50
15:AP:90:LEU:HD23	15:AP:93:ARG:HD3	1.93	0.50
17:AR:71:GLN:CG	17:AR:75:PRO:HB3	2.23	0.50
18:AS:75:ARG:CG	18:AS:80:PHE:CB	2.81	0.50
18:AS:7:ALA:O	18:AS:17:TYR:HA	2.11	0.50
19:AT:45:HIS:ND1	19:AT:46:ASP:N	2.60	0.50
19:AT:88:TYR:N	19:AT:91:ARG:NH2	2.40	0.50
21:AV:11:VAL:HG22	21:AV:39:THR:O	2.11	0.50
22:AW:27:LYS:CD	22:AW:27:LYS:C	2.79	0.50
50:B3:54:GLY:O	50:B3:55:ARG:CB	2.59	0.50
50:B3:64:GLY:C	50:B3:68:ARG:CZ	2.80	0.50
51:B4:47:PRO:HG2	51:B4:48:GLU:OE1	2.11	0.50
24:BA:2394:C:H5'	54:B7:12:LYS:HZ1	1.77	0.50
54:B7:37:SER:OG	54:B7:38:GLY:N	2.43	0.50
24:BA:1034:G:OP2	55:B8:18:ARG:CZ	2.60	0.50
55:B8:32:HIS:O	55:B8:33:LYS:C	2.49	0.50
24:BA:1024:G:OP2	24:BA:1026:U:OP1	2.30	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1029:A:H61	24:BA:1125:G:H2'	1.76	0.50
24:BA:1289:C:H4'	24:BA:1330:C:C4'	2.41	0.50
24:BA:1613:G:N2	24:BA:1619:G:C8	2.76	0.50
24:BA:1907:G:C4	24:BA:1908:C:C5	3.00	0.50
24:BA:1920:C:O2'	24:BA:1921:G:H5'	2.11	0.50
24:BA:2029:G:C4	24:BA:2031:A:OP1	2.65	0.50
24:BA:2043:C:O2	24:BA:2044:C:C6	2.65	0.50
24:BA:204:A:O2'	24:BA:205:G:O5'	2.29	0.50
24:BA:2348:U:H2'	24:BA:2349:G:C5'	2.42	0.50
24:BA:2356:C:C4	24:BA:2357:U:O4	2.64	0.50
24:BA:2424:C:C5'	24:BA:2425:A:H5'	2.42	0.50
24:BA:2516:G:C4	24:BA:2569:G:C2	2.99	0.50
24:BA:2623:G:N3	24:BA:2623:G:H2'	2.26	0.50
24:BA:270(X):G:N3	24:BA:270(Y):G:H4'	2.27	0.50
24:BA:2722:G:C2	24:BA:2723:C:C2	3.00	0.50
24:BA:284:U:H2'	24:BA:285:C:C6	2.47	0.50
24:BA:461:C:N4	24:BA:469:G:H21	2.10	0.50
24:BA:507:A:H1'	24:BA:509:C:C4	2.47	0.50
24:BA:553:U:C4	24:BA:554:U:C4	3.00	0.50
24:BA:587:C:C4	24:BA:671:C:C6	3.00	0.50
24:BA:603:A:N6	24:BA:624:C:H41	2.06	0.50
24:BA:609:A:C5	24:BA:609(A):G:O6	2.64	0.50
24:BA:673:C:H5''	29:BF:81:PRO:HG3	1.93	0.50
24:BA:702:G:H2'	24:BA:703:U:C5'	2.41	0.50
24:BA:705:A:N6	24:BA:727:A:H1'	2.27	0.50
24:BA:940:G:N3	24:BA:1191:G:H4'	2.26	0.50
24:BA:964:C:C2'	24:BA:965:C:O5'	2.60	0.50
25:BB:59:A:N1	25:BB:60:C:H1'	2.27	0.50
25:BB:79:C:H2'	25:BB:80:U:O4'	2.12	0.50
27:BD:89:SER:HB2	27:BD:202:LYS:NZ	2.26	0.50
28:BE:176:ILE:HD11	28:BE:178:GLU:HB2	1.94	0.50
29:BF:45:ARG:HG2	29:BF:97:TYR:CG	2.47	0.50
30:BG:120:LEU:HA	30:BG:181:ARG:CB	2.42	0.50
30:BG:63:ILE:CG2	30:BG:64:THR:N	2.74	0.50
31:BH:105:LEU:HD12	31:BH:113:VAL:CG1	2.40	0.50
33:BL:27:LEU:CD2	33:BL:57:ILE:HD11	2.41	0.50
33:BL:90:LYS:HZ2	33:BL:93:ARG:HH22	1.59	0.50
34:BM:97:ARG:CA	34:BM:100:GLU:HG2	2.32	0.50
34:BM:87:LEU:HD23	34:BM:88:GLU:N	2.27	0.50
35:BN:9:GLU:CA	35:BN:17:ARG:O	2.57	0.50
36:BO:115:LEU:O	36:BO:117:GLU:OE1	2.28	0.50
36:BO:131:SER:O	36:BO:135:LEU:HD13	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:130:LYS:HZ1	37:BP:132:VAL:HG22	1.76	0.50
37:BP:44:ALA:CB	37:BP:93:TYR:O	2.58	0.50
37:BP:85:LYS:CG	37:BP:86:GLY:N	2.73	0.50
37:BP:85:LYS:NZ	47:BZ:10:THR:CG2	2.74	0.50
39:BR:69:VAL:CG1	39:BR:73:LEU:HD21	2.41	0.50
39:BR:88:ASP:CG	39:BR:89:ARG:N	2.62	0.50
25:BB:47:C:O2'	39:BR:92:TYR:CE1	2.64	0.50
40:BS:53:ARG:O	40:BS:100:TYR:CD2	2.64	0.50
41:BT:46:ALA:CA	41:BT:49:HIS:ND1	2.75	0.50
41:BT:83:LEU:H	41:BT:83:LEU:CD1	2.16	0.50
42:BU:60:GLU:OE1	42:BU:101:GLY:CA	2.60	0.50
43:BV:38:TYR:CD2	51:B4:39:MET:CE	2.94	0.50
43:BV:53:SER:O	43:BV:54:ALA:C	2.49	0.50
43:BV:25:ARG:C	43:BV:71:VAL:HG13	2.31	0.50
45:BX:1:MET:HG2	45:BX:33:LYS:CG	2.41	0.50
46:BY:70:LEU:C	46:BY:70:LEU:HD12	2.32	0.50
24:BA:2111:C:C4	24:BA:2145:C:C4	3.00	0.50
26:BC:49:ILE:HG13	26:BC:50:ASP:N	2.26	0.50
30:BG:91:ARG:CB	30:BG:91:ARG:NH2	2.64	0.50
1:AA:337:C:H2'	1:AA:338:A:H8	1.75	0.50
24:BA:1483:G:N9	24:BA:1507:A:C2	2.80	0.50
24:BA:487:C:H6	24:BA:487:C:O5'	1.95	0.50
29:BF:161:GLU:OE2	29:BF:161:GLU:HA	2.11	0.50
26:BC:142:ALA:O	26:BC:143:GLY:C	2.50	0.50
1:AA:102:G:H2'	1:AA:103:C:O4'	2.12	0.50
1:AA:1196:U:C6	1:AA:1196:U:C3'	2.94	0.50
1:AA:1224:G:C2'	1:AA:1225:A:OP1	2.60	0.50
1:AA:1284:C:C2	1:AA:1285:A:N7	2.79	0.50
1:AA:1302:U:O2'	1:AA:1303:C:OP1	2.24	0.50
1:AA:1314:C:N4	21:AV:4:SER:OG	2.45	0.50
1:AA:1377:A:C5'	1:AA:1378:C:C5	2.95	0.50
1:AA:393:A:C6	1:AA:394:G:N7	2.80	0.50
1:AA:430:A:N7	1:AA:431:A:N7	2.60	0.50
1:AA:433:C:H2'	1:AA:434:U:C6	2.47	0.50
1:AA:446:G:O2'	1:AA:447:G:H5'	2.11	0.50
1:AA:5:U:O2'	1:AA:6:G:P	2.70	0.50
1:AA:749:C:O2	1:AA:749:C:C2'	2.59	0.50
1:AA:831:U:C2	1:AA:832:C:C5	2.99	0.50
3:AC:23:A:N6	3:AC:24:G:O6	2.45	0.50
4:AE:171:ALA:HA	4:AE:174:VAL:CB	2.40	0.50
4:AE:67:THR:CG2	4:AE:155:LEU:HD21	2.42	0.50
5:AF:76:VAL:CG1	5:AF:77:ILE:N	2.74	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:98:GLU:CA	6:AG:103:ASN:ND2	2.68	0.50
6:AG:139:ARG:CG	6:AG:140:VAL:N	2.74	0.50
6:AG:165:MET:HG3	6:AG:166:LYS:N	2.26	0.50
6:AG:187:ARG:CD	6:AG:188:LEU:H	2.24	0.50
6:AG:64:LEU:CD1	6:AG:75:PHE:CZ	2.95	0.50
8:AI:1:MET:HA	8:AI:67:MET:O	2.11	0.50
8:AI:75:LEU:O	8:AI:76:ALA:C	2.50	0.50
9:AJ:51:GLN:CD	9:AJ:58:PRO:HD3	2.32	0.50
9:AJ:79:ARG:HA	9:AJ:83:ALA:O	2.11	0.50
9:AJ:79:ARG:NE	9:AJ:84:ASN:HB3	2.27	0.50
11:AL:5:TYR:CZ	11:AL:18:PHE:CZ	2.99	0.50
12:AM:19:SER:CA	12:AM:91:PRO:HG3	2.41	0.50
12:AM:57:LYS:O	12:AM:58:ASP:CG	2.50	0.50
13:AN:122:LYS:O	13:AN:123:LYS:C	2.50	0.50
13:AN:18:ARG:HB2	13:AN:20:TYR:CE1	2.44	0.50
13:AN:79:SER:HA	13:AN:104:GLN:HE21	1.76	0.50
13:AN:85:ARG:NE	13:AN:111:ASP:OD2	2.45	0.50
14:AO:39:VAL:HG11	14:AO:41:ARG:NH2	2.26	0.50
15:AP:88:ARG:CG	15:AP:98:VAL:HG12	2.27	0.50
17:AR:4:THR:HG22	17:AR:6:GLU:OE1	2.12	0.50
19:AT:12:SER:OG	19:AT:14:LYS:HD2	2.11	0.50
19:AT:2:PRO:O	19:AT:4:LYS:N	2.45	0.50
19:AT:7:THR:CG2	19:AT:57:VAL:O	2.58	0.50
24:BA:1158:C:H5'	49:B2:31:LEU:HB2	1.94	0.50
50:B3:68:ARG:HB2	50:B3:68:ARG:CZ	2.42	0.50
51:B4:13:LYS:O	51:B4:14:ALA:C	2.50	0.50
52:B5:27:LYS:HE3	52:B5:29:ASN:HD21	1.77	0.50
52:B5:19:ARG:NH2	52:B5:41:PRO:HG3	2.27	0.50
54:B7:5:LYS:C	54:B7:7:HIS:N	2.64	0.50
24:BA:1077:A:OP1	33:BL:93:ARG:HB2	2.12	0.50
24:BA:109:G:C6	24:BA:110:G:C8	3.00	0.50
24:BA:1110:G:O3'	24:BA:1111:A:O4'	2.29	0.50
24:BA:1241:A:C2'	24:BA:1242:A:OP1	2.60	0.50
24:BA:1272:A:H5'	24:BA:1646:C:C2	2.46	0.50
24:BA:1321:A:C2'	24:BA:1321:A:N3	2.74	0.50
24:BA:1326:U:C3'	24:BA:1327:C:H5'	2.42	0.50
24:BA:1331:A:O2'	24:BA:1332:G:C8	2.65	0.50
24:BA:1379:A:OP2	53:B6:10:ARG:NH2	2.39	0.50
24:BA:1439:A:H2'	24:BA:1440:G:O4'	2.12	0.50
24:BA:1517:G:N2	24:BA:1518:C:H1'	2.23	0.50
24:BA:1525:G:C2	24:BA:1526:G:C4	3.00	0.50
24:BA:1527:G:H8	24:BA:1527:G:H3'	1.71	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1638:C:H6	24:BA:1638:C:O5'	1.95	0.50
24:BA:154:G:N2	24:BA:173:G:C2	2.80	0.50
24:BA:1742:C:C3'	24:BA:1743:G:H5''	2.38	0.50
24:BA:1636:C:C1'	24:BA:1761:C:H1'	2.41	0.50
24:BA:1809:A:C5'	24:BA:1810:A:C2	2.88	0.50
24:BA:1819:A:OP1	27:BD:158:ALA:N	2.44	0.50
24:BA:1838:C:H5'	24:BA:1839:G:OP1	2.11	0.50
24:BA:1858:G:HO2'	24:BA:1859:A:H8	1.54	0.50
24:BA:1861:G:H5'	26:BC:205:LYS:HD2	1.92	0.50
24:BA:1917:U:C6	24:BA:1917:U:C3'	2.93	0.50
24:BA:193:U:H4'	24:BA:803:U:C5'	2.42	0.50
24:BA:1964:G:C4	24:BA:1967:C:H5	2.29	0.50
24:BA:2014:A:H2	24:BA:2613:U:C2	2.29	0.50
24:BA:2047:U:C2	24:BA:2048:G:N7	2.79	0.50
24:BA:2211:G:OP1	24:BA:2212:A:C5'	2.59	0.50
24:BA:2306:C:H5	24:BA:2311:A:C6	2.30	0.50
24:BA:2344:U:O2	24:BA:2344:U:C3'	2.58	0.50
24:BA:2356:C:C4	24:BA:2357:U:C4	2.99	0.50
24:BA:2376:A:OP1	24:BA:2376:A:C8	2.61	0.50
24:BA:1129:A:HO2'	24:BA:2515:C:H1'	1.76	0.50
24:BA:2692:C:O2'	24:BA:2693:A:H5'	2.11	0.50
24:BA:2771:C:H2'	24:BA:2772:C:H6	1.75	0.50
24:BA:2638:G:N1	24:BA:2776:A:OP2	2.37	0.50
24:BA:303:U:C2	24:BA:304:G:C8	3.00	0.50
24:BA:311:A:C1'	24:BA:332:A:C5	2.94	0.50
24:BA:447:A:C6	24:BA:473:G:N9	2.79	0.50
24:BA:571:A:N3	24:BA:573:G:N7	2.60	0.50
24:BA:588:U:O2'	24:BA:589:C:H5'	2.11	0.50
24:BA:627:A:N6	24:BA:637:A:H1'	2.26	0.50
24:BA:724:U:C2	24:BA:725:G:C8	3.00	0.50
24:BA:778:G:N2	24:BA:787:U:H1'	2.26	0.50
24:BA:909:A:C2	24:BA:912:C:C1'	2.95	0.50
24:BA:917:A:N6	24:BA:918:A:N1	2.60	0.50
24:BA:969:U:N3	24:BA:970:C:C5	2.79	0.50
24:BA:972:G:H3'	24:BA:973:A:C5'	2.41	0.50
24:BA:974:G:P	24:BA:974(A):C:OP2	2.69	0.50
25:BB:43:C:O5'	25:BB:43:C:C6	2.48	0.50
25:BB:7:G:HO2'	25:BB:8:U:P	2.34	0.50
24:BA:764:A:OP1	27:BD:211:ARG:CA	2.57	0.50
27:BD:181:GLU:CB	27:BD:268:ARG:NE	2.75	0.50
27:BD:53:PHE:CE2	27:BD:221:VAL:HG13	2.46	0.50
28:BE:154:LYS:NZ	28:BE:156:MET:CB	2.71	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:BH:119:GLU:HA	31:BH:119:GLU:OE2	2.12	0.50
32:BK:28:ASN:C	32:BK:32:PRO:HD3	2.31	0.50
34:BM:115:ARG:HA	34:BM:118:LYS:CE	2.41	0.50
34:BM:67:LEU:N	34:BM:69:GLN:OE1	2.45	0.50
35:BN:59:LYS:C	35:BN:59:LYS:HE2	2.31	0.50
36:BO:70:GLN:CB	36:BO:110:TYR:OH	2.60	0.50
36:BO:40:SER:O	36:BO:40:SER:OG	2.28	0.50
39:BR:16:ASN:CG	39:BR:17:ARG:N	2.64	0.50
39:BR:27:SER:O	39:BR:28:VAL:O	2.30	0.50
39:BR:37:ALA:H	39:BR:51:ALA:HB3	1.76	0.50
39:BR:57:LYS:NZ	39:BR:65:VAL:N	2.60	0.50
24:BA:2876:G:OP1	40:BS:2:ASN:HB2	2.11	0.50
28:BE:8:LYS:HG3	40:BS:6:LEU:HD11	1.92	0.50
40:BS:68:TYR:CE1	40:BS:70:VAL:HA	2.47	0.50
41:BT:113:ALA:HA	41:BT:116:ALA:CB	2.42	0.50
41:BT:94:ASN:O	41:BT:97:ASP:N	2.44	0.50
42:BU:89:GLN:HG2	42:BU:91:TYR:CE1	2.47	0.50
43:BV:64:MET:HB3	43:BV:109:GLU:HG3	1.94	0.50
44:BW:3:THR:O	44:BW:4:ALA:HB3	2.11	0.50
45:BX:46:LYS:NZ	45:BX:49:VAL:CG2	2.74	0.50
46:BY:102:LEU:HG	46:BY:125:LEU:CD1	2.42	0.50
46:BY:6:LYS:HE3	46:BY:35:ARG:HG3	1.93	0.50
32:BK:116:LEU:HD13	32:BK:116:LEU:C	2.32	0.50
3:AD:50:U:H2'	3:AD:51:U:C6	2.47	0.50
3:AD:54:U:OP2	3:AD:55:U:O4	2.29	0.50
26:BC:64:LEU:HB3	26:BC:188:ASN:HD21	1.74	0.50
24:BA:1115:G:N3	24:BA:1115:G:C2'	2.73	0.50
24:BA:1485:G:O2'	24:BA:1486:A:H5'	2.11	0.50
24:BA:1511:A:H2'	24:BA:1512:G:C4'	2.41	0.50
2:A1:22:C:H2'	2:A1:23:A:N9	2.26	0.50
24:BA:439:G:H2'	24:BA:440:G:O4'	2.12	0.50
33:BL:61:ALA:C	33:BL:63:ARG:N	2.63	0.50
37:BP:30:GLY:O	37:BP:31:ASP:HB2	2.12	0.50
2:A1:41:U:H2'	2:A1:42:U:O4'	2.12	0.50
2:A1:51:U:O2'	2:A1:52:U:H5'	2.10	0.50
1:AA:1058:G:C2'	1:AA:1059:C:H5'	2.42	0.50
1:AA:1094:G:H3'	1:AA:1108:G:N2	2.27	0.50
1:AA:1113:C:H2'	1:AA:1114:C:H6	1.77	0.50
1:AA:1160:G:O6	1:AA:1177:G:N2	2.44	0.50
1:AA:1191:A:H5''	5:AF:4:LYS:HD3	1.94	0.50
1:AA:1365:G:N1	1:AA:1366:C:C4	2.80	0.50
1:AA:1379:G:C5	1:AA:1380:U:C5	3.00	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1463:C:C2'	1:AA:1464:G:H5'	2.41	0.50
1:AA:156:G:C6	1:AA:157:G:N7	2.80	0.50
1:AA:254:G:C6	1:AA:273:A:C6	3.00	0.50
1:AA:451:A:OP1	1:AA:481:G:N1	2.43	0.50
1:AA:465:A:N6	1:AA:467:G:N3	2.60	0.50
1:AA:652:U:C2	1:AA:752:G:N2	2.79	0.50
1:AA:696:A:N6	1:AA:797:C:O2'	2.43	0.50
1:AA:778:G:C4	1:AA:779:C:C6	3.00	0.50
1:AA:833:U:C2	1:AA:834:C:H5	2.30	0.50
1:AA:957:U:H2'	1:AA:959:A:OP2	2.11	0.50
1:AA:999:U:C4	1:AA:1042:G:N1	2.80	0.50
3:AC:38:A:C2'	3:AC:39:U:H5'	2.42	0.50
4:AE:131:PRO:C	4:AE:133:LYS:N	2.64	0.50
4:AE:177:ALA:O	4:AE:179:LYS:N	2.45	0.50
4:AE:208:ILE:HG21	4:AE:239:VAL:CG1	2.37	0.50
5:AF:11:ARG:HH11	5:AF:15:THR:HG21	1.77	0.50
1:AA:532:A:H5''	5:AF:161:GLU:OE1	2.11	0.50
5:AF:11:ARG:HH22	5:AF:178:LEU:HA	1.77	0.50
5:AF:31:HIS:CE1	5:AF:34:LEU:HD13	2.47	0.50
5:AF:47:LEU:HD22	5:AF:47:LEU:N	2.27	0.50
6:AG:101:LEU:C	6:AG:104:VAL:HG22	2.26	0.50
6:AG:187:ARG:HH21	6:AG:188:LEU:HD11	1.77	0.50
7:AH:11:ILE:O	7:AH:12:LEU:C	2.50	0.50
7:AH:122:GLU:HG2	7:AH:126:ARG:CG	2.41	0.50
4:AE:178:ARG:O	10:AK:71:GLY:O	2.30	0.50
10:AK:69:ARG:O	10:AK:74:PRO:HA	2.10	0.50
11:AL:45:ALA:O	11:AL:78:LYS:CB	2.58	0.50
13:AN:102:GLY:O	13:AN:104:GLN:N	2.45	0.50
13:AN:63:LEU:HA	13:AN:66:LEU:CG	2.41	0.50
13:AN:13:GLN:CA	13:AN:76:GLY:HA3	2.42	0.50
14:AO:69:TYR:O	14:AO:71:PRO:CD	2.59	0.50
14:AO:85:ILE:CG1	14:AO:99:HIS:O	2.60	0.50
14:AO:89:ARG:NE	14:AO:97:ARG:HG3	2.25	0.50
16:AQ:26:ARG:HB3	16:AQ:43:CYS:HB3	1.94	0.50
17:AR:61:GLY:O	17:AR:62:GLN:C	2.50	0.50
17:AR:62:GLN:N	17:AR:65:ARG:HH12	2.10	0.50
20:AU:60:GLY:O	20:AU:64:ARG:HG3	2.11	0.50
21:AV:39:THR:O	21:AV:40:ILE:C	2.50	0.50
21:AV:58:VAL:O	21:AV:58:VAL:HG23	2.11	0.50
21:AV:58:VAL:HG21	21:AV:75:ALA:CB	2.41	0.50
49:B2:6:VAL:CG1	49:B2:55:ARG:O	2.52	0.50
55:B8:13:LYS:NZ	55:B8:13:LYS:HB3	2.27	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1007:C:H4'	34:BM:108:PRO:CD	2.41	0.50
24:BA:1020:A:O2'	24:BA:1021:A:N7	2.43	0.50
24:BA:1176:G:C8	24:BA:1177:A:O4'	2.65	0.50
24:BA:1203:G:O6	24:BA:1240:U:N1	2.35	0.50
24:BA:1373:A:C8	24:BA:1374:G:N7	2.80	0.50
24:BA:1444(A):A:N7	24:BA:1460:A:H2'	2.27	0.50
24:BA:1453:A:C2	24:BA:1454:U:H1'	2.47	0.50
24:BA:1451:C:H5''	24:BA:1453:A:H4'	1.93	0.50
24:BA:149:A:N7	24:BA:150:C:N1	2.60	0.50
24:BA:1833:U:O2	24:BA:1834:U:O2	2.28	0.50
24:BA:1939:U:O4	24:BA:1967:C:H1'	2.11	0.50
24:BA:2014:A:O5'	24:BA:2014:A:C8	2.61	0.50
24:BA:2277:G:C6	24:BA:2278:A:N7	2.79	0.50
24:BA:233:A:H2'	24:BA:234:C:H5'	1.92	0.50
24:BA:2336:A:O2'	24:BA:2385:C:O4'	2.29	0.50
24:BA:2417:C:C2	24:BA:2418:A:N7	2.79	0.50
24:BA:2469:A:C6	24:BA:2482:G:C8	3.00	0.50
24:BA:2491:U:C5	24:BA:2492:U:H5'	2.41	0.50
24:BA:2681:C:C5	24:BA:2727:G:C2	2.99	0.50
24:BA:2764:A:N7	24:BA:2766:G:O6	2.45	0.50
24:BA:283:A:H2'	24:BA:284:U:H5'	1.93	0.50
24:BA:408:G:N3	24:BA:409:C:C6	2.79	0.50
24:BA:452:G:C2	24:BA:458:G:N2	2.79	0.50
24:BA:450:G:O6	24:BA:453:C:P	2.69	0.50
24:BA:459:U:O5'	53:B6:40:TRP:CZ3	2.65	0.50
24:BA:571:A:C5	24:BA:2030:A:C6	3.00	0.50
24:BA:593:G:C5	24:BA:594:U:C5	3.00	0.50
24:BA:627:A:P	24:BA:637:A:N6	2.85	0.50
24:BA:653:A:H3'	24:BA:654:A:C4'	2.41	0.50
24:BA:733:G:H5''	24:BA:761:A:H61	1.76	0.50
24:BA:774:A:C5'	24:BA:778:G:H4'	2.41	0.50
24:BA:823:G:H5'	24:BA:824:A:OP2	2.11	0.50
24:BA:918:A:H2	24:BA:919:G:C4	2.30	0.50
24:BA:957:A:H4'	24:BA:958:U:OP2	2.04	0.50
25:BB:104:A:H62	25:BB:105:G:N2	2.09	0.50
27:BD:96:HIS:NE2	27:BD:102:LYS:CE	2.74	0.50
27:BD:177:LEU:O	27:BD:178:PRO:O	2.30	0.50
24:BA:1804:C:O3'	27:BD:250:TRP:CH2	2.64	0.50
28:BE:201:THR:O	28:BE:202:LYS:HB3	2.11	0.50
29:BF:110:LEU:HD23	29:BF:186:ILE:CD1	2.41	0.50
29:BF:125:LEU:HD13	29:BF:128:ALA:HB2	1.93	0.50
29:BF:132:VAL:C	29:BF:134:GLY:N	2.60	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:141:ALA:O	29:BF:142:TRP:C	2.47	0.50
30:BG:30:GLU:HB3	30:BG:162:THR:HB	1.93	0.50
31:BH:159:GLU:O	31:BH:160:LYS:HB2	2.11	0.50
31:BH:69:ARG:HG3	31:BH:70:THR:HG23	1.93	0.50
34:BM:8:GLN:O	34:BM:9:VAL:C	2.50	0.50
35:BN:111:PHE:O	35:BN:114:ILE:N	2.44	0.50
35:BN:36:GLY:H	35:BN:61:VAL:HG12	1.76	0.50
24:BA:813:U:C4	36:BO:25:SER:HB3	2.47	0.50
36:BO:7:ARG:H	36:BO:8:PRO:CD	2.24	0.50
36:BO:88:LEU:HD21	36:BO:124:LYS:HZ1	1.76	0.50
37:BP:61:GLY:O	46:BY:177:PRO:O	2.30	0.50
37:BP:6:ARG:CZ	37:BP:8:LYS:H	2.25	0.50
37:BP:8:LYS:HZ3	37:BP:11:LYS:HZ3	1.54	0.50
38:BQ:53:HIS:CD2	38:BQ:56:LYS:NZ	2.80	0.50
38:BQ:58:GLY:CA	38:BQ:80:PHE:CZ	2.94	0.50
40:BS:110:ILE:CD1	40:BS:113:LYS:HE3	2.41	0.50
40:BS:28:VAL:HG22	40:BS:92:GLY:C	2.32	0.50
40:BS:49:VAL:O	40:BS:50:ILE:HG12	2.11	0.50
41:BT:102:GLU:O	41:BT:105:VAL:CB	2.59	0.50
41:BT:81:HIS:CB	41:BT:117:GLN:HE22	2.25	0.50
41:BT:42:ALA:O	41:BT:45:TYR:HB2	2.11	0.50
43:BV:20:VAL:CG1	43:BV:21:VAL:H	2.24	0.50
24:BA:748:G:OP1	43:BV:88:ARG:CD	2.60	0.50
45:BX:69:ALA:O	45:BX:71:LYS:HD2	2.11	0.50
46:BY:105:VAL:HG12	46:BY:107:THR:HG23	1.94	0.50
46:BY:111:VAL:HG21	46:BY:117:LEU:HG	1.92	0.50
25:BB:75:G:N2	46:BY:27:VAL:HG21	2.26	0.50
46:BY:31:ARG:O	46:BY:31:ARG:CZ	2.60	0.50
24:BA:2257:U:H5'	47:BZ:11:ARG:HD3	1.92	0.50
26:BC:97:GLU:OE1	26:BC:122:ALA:CB	2.60	0.50
24:BA:1582:C:C2	24:BA:1583:A:N7	2.80	0.50
39:BR:33:LYS:HE2	39:BR:54:LEU:CD2	2.35	0.50
26:BC:71:GLN:CG	26:BC:72:VAL:N	2.75	0.50
24:BA:1231:G:C4	24:BA:1232:G:C8	3.00	0.50
31:BH:114:VAL:O	31:BH:114:VAL:HG13	2.11	0.50
2:A1:28:G:C2'	2:A1:29:G:H5'	2.41	0.50
1:AA:1204:A:C2'	1:AA:1205:U:H5'	2.41	0.50
1:AA:1237:C:H5''	1:AA:1238:A:C8	2.47	0.50
1:AA:35:G:C6	1:AA:550:G:N1	2.80	0.50
1:AA:363:A:N7	14:AO:31:PRO:HD2	2.25	0.50
1:AA:404:U:O4'	6:AG:122:ARG:NH1	2.45	0.50
1:AA:429:U:O2	1:AA:430:A:C8	2.65	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:571:U:OP1	1:AA:819:A:C8	2.65	0.50
1:AA:598:U:O2'	1:AA:599:C:H5'	2.12	0.50
1:AA:676:A:C4	1:AA:677:U:C5	2.99	0.50
3:AB:41:C:H6	3:AB:41:C:H5'	1.75	0.50
3:AC:34:G:C4	3:AC:35:A:N7	2.80	0.50
4:AE:163:PHE:CE1	4:AE:201:ILE:HD13	2.45	0.50
4:AE:171:ALA:O	4:AE:172:ILE:C	2.49	0.50
4:AE:72:GLY:C	4:AE:74:LYS:N	2.63	0.50
5:AF:30:ARG:CD	5:AF:30:ARG:H	2.23	0.50
6:AG:108:LEU:HD12	6:AG:183:GLY:HA3	1.93	0.50
7:AH:71:LEU:HG	7:AH:72:GLN:H	1.77	0.50
8:AI:52:ILE:CG2	8:AI:87:ARG:HH22	2.25	0.50
9:AJ:68:ASN:ND2	9:AJ:128:ALA:HA	2.27	0.50
9:AJ:69:VAL:C	9:AJ:138:LYS:HD2	2.32	0.50
9:AJ:75:VAL:HA	9:AJ:89:MET:HE3	1.93	0.50
10:AK:110:ALA:C	10:AK:111:ILE:HD12	2.31	0.50
12:AM:57:LYS:O	12:AM:57:LYS:HG2	2.11	0.50
13:AN:22:HIS:O	13:AN:28:THR:HG23	2.12	0.50
13:AN:62:GLN:OE1	13:AN:63:LEU:N	2.45	0.50
13:AN:63:LEU:HA	13:AN:66:LEU:CD1	2.41	0.50
14:AO:83:VAL:C	14:AO:104:VAL:HG11	2.32	0.50
14:AO:41:ARG:CB	14:AO:41:ARG:NH1	2.70	0.50
15:AP:39:ILE:O	15:AP:40:ASN:C	2.49	0.50
15:AP:96:LEU:N	15:AP:96:LEU:HD23	2.27	0.50
1:AA:580:U:C4'	17:AR:58:MET:HG2	2.42	0.50
18:AS:52:ASP:OD2	18:AS:55:ARG:N	2.45	0.50
21:AV:29:ARG:HG2	21:AV:48:THR:CB	2.42	0.50
21:AV:40:ILE:HB	21:AV:68:GLY:HA2	1.94	0.50
48:B1:14:VAL:O	48:B1:18:LYS:HG2	2.12	0.50
48:B1:25:ARG:NH2	48:B1:25:ARG:CG	2.73	0.50
49:B2:39:ASP:C	49:B2:44:ARG:HD3	2.33	0.50
49:B2:5:LYS:NZ	49:B2:57:GLU:HB2	2.26	0.50
50:B3:56:VAL:C	50:B3:61:ARG:CZ	2.80	0.50
50:B3:65:ASP:HA	50:B3:68:ARG:NH1	2.27	0.50
51:B4:56:LYS:HG3	51:B4:57:VAL:HG13	1.93	0.50
52:B5:25:LYS:C	52:B5:26:ASN:ND2	2.66	0.50
53:B6:10:ARG:HD3	53:B6:14:LYS:NZ	2.27	0.50
24:BA:1031:G:C6	24:BA:1032:A:N6	2.80	0.50
24:BA:1045:A:H1'	24:BA:1047:G:C8	2.46	0.50
24:BA:1057:A:C5	24:BA:1085:A:N1	2.79	0.50
24:BA:1061:U:C4'	24:BA:1070:A:H1'	2.41	0.50
24:BA:1120:G:H2'	24:BA:1121:C:C6	2.47	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:112:U:OP2	24:BA:112:U:H6	1.93	0.50
24:BA:1179:C:O2'	24:BA:1180:C:P	2.69	0.50
24:BA:1189:A:OP2	24:BA:1190:G:N7	2.44	0.50
24:BA:120:U:C2'	24:BA:149:A:N3	2.75	0.50
24:BA:1223:C:C5	24:BA:1227:A:N1	2.80	0.50
24:BA:1212:G:C5	24:BA:1236:G:N1	2.77	0.50
24:BA:1265:A:P	24:BA:2615:U:OP1	2.69	0.50
24:BA:13:A:HO2'	24:BA:14:A:P	2.35	0.50
24:BA:1448:G:H21	24:BA:1529:A:H2	1.59	0.50
24:BA:1451:C:C4'	24:BA:1451:C:OP2	2.60	0.50
24:BA:1495:A:H8	24:BA:1495:A:O5'	1.94	0.50
24:BA:1534:G:H2'	24:BA:1536:A:N7	2.27	0.50
24:BA:1544:C:H2'	24:BA:1545:A:O4'	2.12	0.50
24:BA:1789:A:N7	24:BA:1790:C:C5	2.79	0.50
24:BA:1907:G:H2'	24:BA:1908:C:C6	2.44	0.50
24:BA:1917:U:C6	24:BA:1917:U:H3'	2.46	0.50
24:BA:1919:A:H8	24:BA:1919:A:O5'	1.91	0.50
24:BA:1953:A:H62	24:BA:2550:G:C5'	2.25	0.50
24:BA:530:G:N2	24:BA:2021:C:H3'	2.19	0.50
24:BA:2029:G:O6	24:BA:2033:A:OP1	2.30	0.50
24:BA:2213:U:C2'	24:BA:2213:U:O2	2.60	0.50
24:BA:2297:C:C2	24:BA:2333:A:N6	2.80	0.50
24:BA:2426:A:H3'	24:BA:2427:C:H5'	1.93	0.50
24:BA:2441:C:H2'	24:BA:2442:C:C6	2.47	0.50
24:BA:2468:G:C5	24:BA:2481:G:C2	3.00	0.50
24:BA:2483:C:H2'	24:BA:2483:C:O2	2.10	0.50
24:BA:2461:C:C1'	24:BA:2492:U:C5	2.81	0.50
24:BA:2603:G:C6	24:BA:2604:U:C4	3.00	0.50
24:BA:2653:U:C3'	24:BA:2654:A:C8	2.93	0.50
24:BA:2716:U:H2'	24:BA:2717:G:O5'	2.12	0.50
24:BA:271(B):G:H5''	24:BA:271(C):U:H5'	1.92	0.50
24:BA:2877:G:H3'	24:BA:2878:U:H6	1.72	0.50
24:BA:2630:G:C4	24:BA:2894:G:C6	2.99	0.50
24:BA:311:A:C2	24:BA:328:U:O4	2.64	0.50
24:BA:379:G:O6	24:BA:380:U:C4	2.65	0.50
24:BA:448:U:O4	24:BA:583:G:C4	2.65	0.50
24:BA:588:U:C1'	29:BF:90:PHE:CD1	2.95	0.50
24:BA:591:C:C4	24:BA:592:G:N7	2.80	0.50
24:BA:606:U:H5	24:BA:606:U:OP2	1.95	0.50
24:BA:646:A:H2'	24:BA:647:G:C8	2.47	0.50
24:BA:730:C:C2'	24:BA:731:C:H5'	2.42	0.50
24:BA:731:C:C2'	24:BA:732:C:H5'	2.41	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:764:A:OP1	27:BD:211:ARG:CB	2.60	0.50
24:BA:859:G:H3'	24:BA:859:G:H8	1.77	0.50
25:BB:14:U:C6	25:BB:14:U:H3'	2.43	0.50
25:BB:47:C:C2'	25:BB:48:A:H5'	2.42	0.50
25:BB:53:A:C6	25:BB:54:G:C5	3.00	0.50
27:BD:106:ILE:CG1	27:BD:108:PRO:HD3	2.36	0.50
27:BD:136:ILE:CG2	27:BD:165:ILE:HG21	2.41	0.50
27:BD:246:PRO:CB	27:BD:250:TRP:HB3	2.42	0.50
28:BE:115:GLY:O	28:BE:118:LYS:O	2.29	0.50
28:BE:116:VAL:HG12	28:BE:120:TRP:NE1	2.27	0.50
28:BE:119:ARG:CD	28:BE:156:MET:H	2.25	0.50
28:BE:202:LYS:C	28:BE:204:ALA:N	2.64	0.50
29:BF:169:ASN:HD21	29:BF:171:PRO:HG2	1.76	0.50
15:AP:3:ARG:HH22	30:BG:139:LEU:HD22	1.76	0.50
30:BG:62:LEU:HD23	30:BG:143:GLU:CG	2.40	0.50
32:BK:5:LEU:HD21	32:BK:17:GLN:C	2.32	0.50
34:BM:14:VAL:HG13	34:BM:138:LEU:C	2.32	0.50
36:BO:108:LYS:CD	36:BO:109:GLY:N	2.73	0.50
36:BO:17:LYS:HZ2	36:BO:17:LYS:HB2	1.77	0.50
36:BO:73:GLY:N	36:BO:107:LYS:HE3	2.27	0.50
36:BO:88:LEU:CD2	36:BO:124:LYS:HZ1	2.25	0.50
37:BP:11:LYS:NZ	37:BP:73:PRO:HB3	2.27	0.50
37:BP:122:GLY:HA2	37:BP:125:LEU:HD12	1.94	0.50
37:BP:134:ARG:HH21	37:BP:137:TYR:CB	2.25	0.50
37:BP:42:ILE:O	37:BP:94:VAL:CB	2.57	0.50
37:BP:66:ILE:O	37:BP:67:ARG:HB3	2.12	0.50
38:BQ:116:LEU:H	38:BQ:116:LEU:HD23	1.77	0.50
38:BQ:57:ARG:HH11	38:BQ:57:ARG:HG2	1.76	0.50
38:BQ:4:LEU:O	38:BQ:6:SER:N	2.45	0.50
38:BQ:8:ARG:NH2	38:BQ:17:ARG:CD	2.74	0.50
38:BQ:93:GLY:O	38:BQ:95:THR:N	2.45	0.50
39:BR:30:ARG:HD2	39:BR:91:PRO:CG	2.42	0.50
40:BS:82:LEU:HD13	40:BS:84:GLN:CB	2.41	0.50
41:BT:66:ASN:OD1	41:BT:76:TYR:CD1	2.65	0.50
42:BU:17:GLY:C	42:BU:19:LYS:H	2.15	0.50
42:BU:20:LEU:HB2	42:BU:93:GLU:OE2	2.12	0.50
45:BX:35:TYR:CE2	45:BX:67:LEU:HD13	2.46	0.50
3:AD:56:C:N4	24:BA:2169:A:C2	2.80	0.50
24:BA:2150:U:O2	24:BA:2151:G:C8	2.64	0.50
24:BA:2158:A:HO2'	24:BA:2159:G:P	2.33	0.50
24:BA:2114:A:H61	24:BA:2170:A:H61	1.59	0.50
26:BC:161:ILE:HB	26:BC:174:PRO:HD2	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:BC:58:VAL:CG1	26:BC:199:HIS:HB3	2.42	0.50
26:BC:59:ARG:HH12	26:BC:164:ARG:HH11	1.57	0.50
24:BA:1622:G:O5'	24:BA:1622:G:H8	1.95	0.50
1:AA:615:C:H2'	1:AA:616:G:O4'	2.11	0.50
36:BO:94:GLU:C	36:BO:94:GLU:CD	2.70	0.50
1:AA:1027:C:C4	1:AA:1028:C:C5	2.99	0.50
1:AA:1058:G:O5'	1:AA:1058:G:C8	2.64	0.50
1:AA:1065:U:C2'	1:AA:1066:C:OP2	2.59	0.50
1:AA:1329:A:O3'	15:AP:24:GLY:HA2	2.12	0.50
1:AA:1352:C:H2'	1:AA:1353:G:O4'	2.12	0.50
1:AA:1413:A:H61	1:AA:1487:G:H1	1.60	0.50
1:AA:1419:G:O2'	1:AA:1420:C:C5'	2.60	0.50
1:AA:152:A:C8	1:AA:152:A:H3'	2.47	0.50
1:AA:1533:C:C2'	1:AA:1534:A:O5'	2.60	0.50
1:AA:181:G:C2'	1:AA:182:U:OP2	2.59	0.50
1:AA:186(D):C:H2'	1:AA:186(E):C:C5	2.46	0.50
1:AA:299:G:H2'	1:AA:300:A:C5	2.46	0.50
1:AA:322:C:H2'	1:AA:323:U:O4'	2.11	0.50
1:AA:327:A:O3'	1:AA:328:C:O4'	2.30	0.50
1:AA:355:C:H2'	1:AA:356:A:H8	1.77	0.50
1:AA:50:A:C2	1:AA:360:A:C2'	2.94	0.50
1:AA:373:A:H1'	1:AA:481:G:C1'	2.24	0.50
1:AA:380:G:N2	1:AA:382:A:C3'	2.75	0.50
1:AA:494:U:H2'	1:AA:495:A:C5'	2.42	0.50
1:AA:698:G:C6	1:AA:699:C:C4	3.00	0.50
1:AA:850:U:C2	1:AA:851:G:N7	2.80	0.50
1:AA:888:G:N1	1:AA:889:A:N6	2.60	0.50
1:AA:962:C:N3	1:AA:974:A:N1	2.59	0.50
3:AD:75:C:H5''	3:AD:76:A:H4'	1.91	0.50
3:AD:76:A:N7	24:BA:2432:A:C2	2.79	0.50
4:AE:165:VAL:O	4:AE:187:LEU:O	2.30	0.50
4:AE:80:ILE:HB	4:AE:208:ILE:CD1	2.42	0.50
4:AE:60:ASP:CG	4:AE:64:ARG:HH22	2.14	0.50
5:AF:110:ASN:CG	5:AF:144:SER:OG	2.51	0.50
5:AF:114:PRO:HD3	5:AF:183:ASP:OD2	2.12	0.50
6:AG:173:TRP:HD1	6:AG:185:PHE:CE2	2.30	0.50
8:AI:1:MET:CB	8:AI:67:MET:O	2.59	0.50
8:AI:26:ILE:CG2	8:AI:30:LEU:HD11	2.39	0.50
8:AI:46:ARG:HH22	20:AU:37:VAL:HG13	1.74	0.50
9:AJ:107:ALA:HB3	9:AJ:134:ALA:HB2	1.94	0.50
9:AJ:69:VAL:CA	9:AJ:135:VAL:HG22	2.42	0.50
9:AJ:17:VAL:HG13	9:AJ:17:VAL:O	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AK:44:PHE:O	10:AK:64:LYS:HD2	2.12	0.50
11:AL:118:LYS:O	11:AL:119:ALA:C	2.50	0.50
11:AL:11:LYS:C	11:AL:12:GLU:HG2	2.32	0.50
11:AL:22:GLY:C	11:AL:58:HIS:O	2.50	0.50
11:AL:5:TYR:CD2	11:AL:6:GLY:N	2.80	0.50
11:AL:27:THR:HG21	11:AL:62:TYR:CE1	2.47	0.50
11:AL:94:ALA:O	11:AL:95:LYS:HG2	2.12	0.50
13:AN:114:VAL:CG2	13:AN:115:PRO:N	2.75	0.50
13:AN:46:GLY:HA2	13:AN:55:LYS:HD2	1.93	0.50
15:AP:62:ASN:C	15:AP:64:TRP:N	2.65	0.50
17:AR:13:GLN:O	17:AR:14:GLU:C	2.50	0.50
1:AA:668:G:H1'	17:AR:46:HIS:NE2	2.27	0.50
19:AT:65:ILE:CG2	19:AT:69:LYS:HD2	2.40	0.50
20:AU:50:ILE:O	20:AU:52:PRO:HD3	2.12	0.50
1:AA:663:A:H4'	20:AU:61:LYS:HZ1	1.76	0.50
20:AU:79:LEU:N	20:AU:79:LEU:CD1	2.75	0.50
21:AV:22:LEU:CA	21:AV:25:LYS:HZ1	2.24	0.50
21:AV:33:THR:OG1	21:AV:49:ILE:HD12	2.12	0.50
1:AA:333:G:C4'	22:AW:16:HIS:CD2	2.93	0.50
48:B1:19:LEU:O	48:B1:19:LEU:HD22	2.11	0.50
50:B3:29:PRO:O	50:B3:31:ILE:HD12	2.12	0.50
50:B3:29:PRO:CG	50:B3:31:ILE:CG2	2.88	0.50
52:B5:22:ALA:C	52:B5:23:THR:HG23	2.32	0.50
53:B6:22:MET:O	53:B6:28:ARG:CG	2.60	0.50
24:BA:1311:G:N7	53:B6:48:LYS:HD3	2.27	0.50
24:BA:105:C:H2'	24:BA:106:C:C6	2.47	0.50
24:BA:1176:G:H8	24:BA:1177:A:O4'	1.95	0.50
24:BA:117:G:C4	24:BA:119:A:N6	2.80	0.50
24:BA:1239:G:H2'	24:BA:1240:U:C4'	2.42	0.50
24:BA:1314:C:C6	24:BA:1314:C:O5'	2.65	0.50
24:BA:1357:U:N3	24:BA:1358:G:C2	2.80	0.50
24:BA:1444:G:H5'	24:BA:1444(A):A:OP2	2.12	0.50
24:BA:699:A:H1'	24:BA:1634:A:C8	2.47	0.50
24:BA:1807:G:N2	24:BA:1809:A:P	2.85	0.50
24:BA:1825:A:O2'	27:BD:252:TRP:CZ3	2.64	0.50
24:BA:1925:C:C2'	24:BA:1926:U:O5'	2.60	0.50
24:BA:1930:G:H2'	24:BA:1931:U:OP2	2.12	0.50
24:BA:1936:A:C4	24:BA:1945:G:C5	3.00	0.50
24:BA:1968:G:O2'	24:BA:1969:A:H8	1.95	0.50
24:BA:532:A:P	24:BA:2021:C:N4	2.84	0.50
24:BA:2037:G:H2'	24:BA:2038:G:H8	1.74	0.50
24:BA:215:G:O4'	24:BA:216:A:H4'	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2247:A:H2'	24:BA:2248:C:C6	2.47	0.50
24:BA:2256:G:H5''	24:BA:2256:G:C8	2.46	0.50
24:BA:2346:A:C5'	24:BA:2383:G:O4'	2.60	0.50
24:BA:2525:G:O2'	24:BA:2741:A:H2	1.93	0.50
24:BA:244:A:N3	24:BA:255:A:C2	2.80	0.50
24:BA:2587:A:C3'	24:BA:2588:G:H5'	2.42	0.50
24:BA:2597:G:O2'	24:BA:2598:A:O5'	2.30	0.50
24:BA:270(H):C:O2'	24:BA:270(I):G:H5'	2.12	0.50
24:BA:2745:C:C4	24:BA:2746:U:C5	3.00	0.50
24:BA:2839:G:C4	24:BA:2840:C:C6	3.00	0.50
24:BA:307:G:H22	24:BA:310:A:C5'	2.25	0.50
24:BA:386:G:O2'	24:BA:387:U:C5	2.60	0.50
24:BA:411:G:O5'	24:BA:412:A:OP2	2.29	0.50
24:BA:462:C:C5	24:BA:468:G:N2	2.80	0.50
24:BA:558:G:H5''	34:BM:109:LYS:CG	2.41	0.50
24:BA:572:A:C5	24:BA:573:G:N1	2.80	0.50
24:BA:576:U:O5'	24:BA:576:U:H6	1.95	0.50
24:BA:618:G:N7	24:BA:618(A):C:C5	2.80	0.50
24:BA:678:C:C2	24:BA:679:C:C6	3.00	0.50
24:BA:764:A:C6	24:BA:1789:A:C2	3.00	0.50
24:BA:799:G:C6	24:BA:800:A:N1	2.80	0.50
24:BA:880:G:C4	24:BA:881:G:H1'	2.47	0.50
24:BA:978:G:H2'	24:BA:979:G:C8	2.47	0.50
24:BA:997:G:H2'	24:BA:998:C:H5	1.75	0.50
25:BB:71:C:C2	25:BB:72:G:O4'	2.65	0.50
27:BD:117:VAL:CG1	27:BD:118:VAL:N	2.74	0.50
27:BD:188:GLU:H	27:BD:188:GLU:CD	2.15	0.50
27:BD:205:VAL:HG13	27:BD:205:VAL:O	2.11	0.50
27:BD:224:ALA:HB2	27:BD:233:HIS:CG	2.47	0.50
27:BD:5:LYS:HB2	27:BD:82:ILE:CD1	2.39	0.50
28:BE:120:TRP:CG	28:BE:121:ASN:N	2.77	0.50
28:BE:5:LEU:CD1	28:BE:197:ILE:HA	2.42	0.50
24:BA:2635:C:O2'	28:BE:79:ARG:HD2	2.12	0.50
28:BE:97:LYS:HG3	28:BE:100:GLU:CD	2.33	0.50
29:BF:196:LEU:O	29:BF:199:TRP:HB2	2.11	0.50
30:BG:170:ARG:HH11	30:BG:170:ARG:HG2	1.77	0.50
3:AC:57:G:OP1	30:BG:81:LYS:CD	2.60	0.50
31:BH:74:ASN:HB2	31:BH:138:LYS:HZ1	1.75	0.50
33:BL:79:ARG:NH1	33:BL:87:GLY:CA	2.75	0.50
34:BM:112:LEU:C	34:BM:114:ARG:N	2.63	0.50
34:BM:13:TRP:C	34:BM:14:VAL:CG2	2.79	0.50
34:BM:35:ARG:HB3	34:BM:37:LYS:H	1.76	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:BM:44:PRO:HG2	34:BM:45:ASN:H	1.77	0.50
34:BM:23:LEU:CG	34:BM:61:ARG:O	2.60	0.50
35:BN:112:MET:O	35:BN:113:LYS:C	2.50	0.50
35:BN:23:ARG:NH1	35:BN:30:ALA:HB2	2.27	0.50
36:BO:97:PRO:CD	36:BO:102:ARG:CZ	2.90	0.50
36:BO:108:LYS:CG	36:BO:109:GLY:N	2.75	0.50
36:BO:122:PRO:HB2	36:BO:138:LEU:CA	2.40	0.50
36:BO:79:ARG:HA	36:BO:79:ARG:NH2	2.26	0.50
36:BO:87:ASP:O	36:BO:89:ALA:N	2.45	0.50
37:BP:50:ALA:O	37:BP:51:ARG:C	2.50	0.50
38:BQ:99:LYS:HE2	51:B4:43:HIS:ND1	2.26	0.50
40:BS:76:PHE:CZ	40:BS:78:LEU:CD1	2.94	0.50
41:BT:111:GLU:HG3	41:BT:112:ARG:H	1.77	0.50
41:BT:14:HIS:O	41:BT:15:LYS:C	2.50	0.50
41:BT:65:ILE:HG23	41:BT:96:ALA:HA	1.94	0.50
46:BY:95:PRO:N	46:BY:130:PRO:HA	2.26	0.50
46:BY:152:ALA:HA	46:BY:155:LEU:CD2	2.42	0.50
37:BP:61:GLY:HA2	46:BY:178:GLU:HG3	1.94	0.50
46:BY:80:ARG:C	46:BY:81:ARG:HG3	2.32	0.50
3:AD:49:C:N3	3:AD:50:U:C5	2.80	0.50
24:BA:2111:C:N3	24:BA:2145:C:H2'	2.27	0.50
26:BC:78:ALA:HA	26:BC:119:VAL:CG2	2.42	0.50
26:BC:127:LEU:HA	26:BC:130:ILE:HD13	1.93	0.50
26:BC:66:HIS:CD2	26:BC:180:PHE:HE2	2.30	0.50
26:BC:184:LYS:O	26:BC:185:LEU:C	2.49	0.50
2:A1:43:U:O2	2:A1:44:U:C5	2.65	0.50
24:BA:1767:C:C2	24:BA:1768:U:C6	3.00	0.50
7:AH:8:GLU:O	7:AH:8:GLU:CD	2.50	0.50
2:A1:34:U:OP2	2:A1:34:U:C6	2.65	0.49
1:AA:1042:G:O2'	1:AA:1043:C:H5'	2.12	0.49
1:AA:1181:G:N7	1:AA:1182:G:C2	2.80	0.49
1:AA:1240:U:H2'	9:AJ:32:ARG:NH2	2.20	0.49
1:AA:1242:C:C4	1:AA:1243:C:C5	3.00	0.49
1:AA:1301:U:C4	1:AA:1303:C:N1	2.81	0.49
1:AA:1306:A:H3'	1:AA:1307:U:C6	2.47	0.49
1:AA:926:G:C4	1:AA:1505:G:N2	2.80	0.49
1:AA:246:A:C4	1:AA:282:A:N6	2.79	0.49
1:AA:247:G:O2'	1:AA:248:C:H5'	2.12	0.49
1:AA:275:G:O2'	1:AA:276:G:H5'	2.12	0.49
1:AA:295:C:H2'	1:AA:296:U:O4'	2.11	0.49
1:AA:484:G:C8	1:AA:486:U:C4	3.00	0.49
1:AA:50:A:O2'	1:AA:52:G:C8	2.57	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:56:U:H2'	1:AA:57:G:C8	2.44	0.49
1:AA:579:G:HO2'	1:AA:580:U:H5'	1.76	0.49
1:AA:594:G:H2'	1:AA:595:G:H1'	1.94	0.49
1:AA:687:A:H2	1:AA:700:G:H21	1.56	0.49
1:AA:757:U:H4'	1:AA:879:C:O2	2.12	0.49
1:AA:947:G:C2	1:AA:948:C:C2	3.00	0.49
3:AB:58:A:O2'	3:AB:59:U:H5''	2.12	0.49
3:AC:7:A:O2'	3:AC:8:U:OP1	2.25	0.49
4:AE:144:ARG:O	4:AE:147:LYS:CB	2.60	0.49
4:AE:92:TYR:O	4:AE:152:PHE:CB	2.59	0.49
4:AE:60:ASP:CB	4:AE:64:ARG:NH1	2.74	0.49
5:AF:119:ARG:HG2	5:AF:120:VAL:N	2.25	0.49
5:AF:157:ILE:CG1	5:AF:164:ARG:HG2	2.40	0.49
5:AF:138:VAL:HG12	5:AF:170:GLN:HE21	1.77	0.49
5:AF:191:THR:HB	5:AF:193:TYR:CD2	2.47	0.49
6:AG:148:VAL:HG21	6:AG:162:LEU:HD21	1.93	0.49
7:AH:108:ALA:HA	7:AH:111:GLU:OE1	2.12	0.49
9:AJ:111:ARG:HH12	9:AJ:112:PRO:HD2	1.74	0.49
10:AK:60:ARG:HG3	10:AK:61:VAL:N	2.26	0.49
11:AL:47:LEU:CD1	11:AL:50:LEU:HB3	2.31	0.49
11:AL:51:ARG:NH1	11:AL:51:ARG:CA	2.73	0.49
12:AM:5:ARG:O	12:AM:6:ILE:HG23	2.12	0.49
13:AN:67:ASP:N	13:AN:70:LYS:HZ2	2.09	0.49
13:AN:20:TYR:CD2	13:AN:83:ILE:HG21	2.47	0.49
13:AN:24:SER:O	13:AN:88:GLY:HA2	2.12	0.49
14:AO:100:ILE:H	14:AO:100:ILE:CD1	2.21	0.49
14:AO:117:ARG:HH11	14:AO:117:ARG:CG	2.12	0.49
15:AP:26:GLY:O	15:AP:29:ARG:HB2	2.12	0.49
17:AR:15:PHE:CD2	17:AR:15:PHE:N	2.79	0.49
19:AT:11:VAL:HB	19:AT:20:THR:CB	2.41	0.49
19:AT:12:SER:H	19:AT:20:THR:HG1	1.59	0.49
19:AT:22:LEU:HD13	19:AT:41:LYS:CA	2.42	0.49
20:AU:46:GLU:N	20:AU:49:LYS:HZ1	2.09	0.49
20:AU:52:PRO:O	20:AU:55:ARG:N	2.40	0.49
21:AV:19:VAL:HG22	21:AV:43:GLU:OE2	2.12	0.49
22:AW:53:LEU:HB2	22:AW:100:ILE:HG13	1.94	0.49
22:AW:30:LYS:O	22:AW:34:LYS:HG3	2.12	0.49
48:B1:19:LEU:CD1	48:B1:55:LEU:HG	2.42	0.49
49:B2:26:LEU:CG	49:B2:35:ARG:NH1	2.70	0.49
54:B7:30:ARG:CG	54:B7:31:HIS:H	2.23	0.49
24:BA:98:G:O2'	24:BA:103:A:C1'	2.60	0.49
24:BA:1120:G:H2'	24:BA:1121:C:H6	1.77	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1164:G:C2'	24:BA:1165:U:O5'	2.60	0.49
24:BA:1235:G:C2	24:BA:1236:G:N2	2.80	0.49
24:BA:1457:A:H2'	24:BA:1458:C:H5'	1.94	0.49
24:BA:1729:A:H3'	24:BA:1730:U:O4'	2.12	0.49
24:BA:1729:A:H2'	24:BA:1730:U:H5'	1.94	0.49
24:BA:1731:G:N3	24:BA:1731:G:C2'	2.74	0.49
24:BA:1759:A:N1	24:BA:1760:A:C2	2.81	0.49
24:BA:1969:A:O2'	24:BA:1972:A:H1'	2.12	0.49
24:BA:1975:G:O2'	24:BA:1976:U:C5'	2.60	0.49
24:BA:2057:A:C8	24:BA:2058:A:N7	2.80	0.49
24:BA:2296:U:O4	39:BR:5:THR:HG23	2.12	0.49
24:BA:2312:U:O4'	30:BG:43:LEU:HD13	2.12	0.49
24:BA:220:G:O2'	24:BA:233:A:C2	2.65	0.49
24:BA:2358:G:N2	24:BA:2359:C:C1'	2.75	0.49
24:BA:237:C:O2'	24:BA:238:C:H5'	2.12	0.49
24:BA:239:U:C2	24:BA:259:G:N1	2.80	0.49
24:BA:410:G:C2	24:BA:2407:G:N7	2.80	0.49
24:BA:957:A:H2	24:BA:2459:A:OP1	1.95	0.49
24:BA:2464:C:C4	24:BA:2465:C:C5	3.00	0.49
24:BA:195:A:H4'	24:BA:251:A:O4'	2.11	0.49
24:BA:2544:G:H2'	24:BA:2545:G:C5'	2.42	0.49
24:BA:257:A:C2'	24:BA:258:G:H5'	2.42	0.49
24:BA:2794:C:C2	24:BA:2799:A:C2	3.00	0.49
24:BA:2854:G:H2'	24:BA:2855:C:C6	2.47	0.49
24:BA:2899:G:C5	24:BA:2900:A:N7	2.80	0.49
24:BA:360:G:C2'	24:BA:361:G:O5'	2.59	0.49
24:BA:364:C:C2'	24:BA:365:C:C5	2.80	0.49
24:BA:397:G:OP2	50:B3:10:VAL:HG11	2.11	0.49
24:BA:429:A:C2'	24:BA:430:G:C8	2.89	0.49
24:BA:547:A:C5	24:BA:548:A:C5	2.99	0.49
24:BA:665:C:O2'	24:BA:666:G:O5'	2.19	0.49
24:BA:751:A:OP1	24:BA:1614:A:OP1	2.30	0.49
24:BA:800:A:N9	24:BA:802:A:H5'	2.27	0.49
24:BA:866:A:N3	24:BA:866:A:C2'	2.74	0.49
24:BA:928:G:N7	24:BA:929:G:C4	2.80	0.49
24:BA:931:G:C2	49:B2:24:LYS:HB3	2.46	0.49
24:BA:934:G:C6	24:BA:935:C:C5	3.00	0.49
24:BA:974:G:H8	24:BA:974(A):C:O4'	1.95	0.49
24:BA:988:A:H8	24:BA:988:A:O5'	1.96	0.49
24:BA:997:G:H2'	24:BA:998:C:C6	2.47	0.49
25:BB:112:G:C2'	25:BB:112:G:N3	2.74	0.49
25:BB:43:C:N3	30:BG:95:ARG:NH2	2.59	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:60:C:H2'	25:BB:61:G:C8	2.47	0.49
27:BD:97:TYR:HB3	27:BD:99:ASP:OD1	2.12	0.49
28:BE:127:ASP:O	28:BE:128:SER:HB3	2.11	0.49
28:BE:64:LYS:O	28:BE:65:GLY:C	2.50	0.49
29:BF:20:LEU:N	29:BF:20:LEU:HD23	2.11	0.49
29:BF:97:TYR:CD2	29:BF:97:TYR:N	2.78	0.49
30:BG:115:ARG:O	30:BG:117:PHE:N	2.45	0.49
30:BG:135:LEU:HD11	30:BG:137:GLU:O	2.11	0.49
30:BG:111:LEU:HD23	30:BG:178:PHE:HD2	1.77	0.49
30:BG:39:ILE:HG23	30:BG:157:ILE:HG13	1.91	0.49
30:BG:56:ALA:HB3	30:BG:68:PRO:CB	2.41	0.49
34:BM:114:ARG:O	34:BM:115:ARG:C	2.48	0.49
35:BN:59:LYS:O	35:BN:59:LYS:HE2	2.12	0.49
36:BO:107:LYS:O	36:BO:108:LYS:C	2.50	0.49
38:BQ:105:ARG:O	38:BQ:107:ASP:N	2.43	0.49
24:BA:2882:A:H4'	38:BQ:98:LEU:HD21	1.92	0.49
39:BR:12:PHE:CG	39:BR:13:ARG:N	2.80	0.49
25:BB:7:G:C4'	39:BR:29:PHE:HE2	2.17	0.49
39:BR:9:ARG:NH1	39:BR:9:ARG:CB	2.47	0.49
41:BT:5:LYS:C	41:BT:7:GLY:N	2.65	0.49
41:BT:69:CYS:SG	41:BT:70:ARG:N	2.85	0.49
41:BT:88:ILE:HG12	42:BU:52:VAL:CG2	2.41	0.49
43:BV:24:ILE:HG22	43:BV:32:ALA:CB	2.39	0.49
44:BW:35:THR:HB	44:BW:38:GLU:HB2	1.93	0.49
44:BW:42:ALA:O	44:BW:46:ALA:HB3	2.12	0.49
44:BW:60:ARG:HD3	44:BW:62:LYS:HZ1	1.74	0.49
32:BK:53:ALA:HB1	32:BK:57:ARG:HH21	1.77	0.49
3:AD:58:A:O2'	3:AD:61:C:C5	2.64	0.49
24:BA:1510:A:C5'	24:BA:1511:A:OP2	2.60	0.49
2:A1:37:U:H3'	2:A1:38:U:C5	2.46	0.49
1:AA:1037:C:C4	1:AA:1038:C:C4	3.00	0.49
1:AA:110:C:C6	1:AA:110:C:O5'	2.65	0.49
1:AA:1205:U:H2'	1:AA:1206:G:C8	2.46	0.49
1:AA:122:G:C2	1:AA:123:C:H1'	2.47	0.49
1:AA:1436:U:H3'	1:AA:1437:C:C6	2.47	0.49
1:AA:1415:G:C6	1:AA:1486:G:C6	3.00	0.49
1:AA:21:G:N2	1:AA:916:G:C6	2.80	0.49
1:AA:22:G:C2	1:AA:23:C:C2	3.00	0.49
1:AA:306:G:C4	1:AA:307:C:C6	3.00	0.49
1:AA:315:A:N3	1:AA:315:A:H2'	2.27	0.49
1:AA:364:A:C2	1:AA:365:U:O4	2.65	0.49
1:AA:429:U:H4'	1:AA:430:A:C5'	2.41	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:447:G:O5'	1:AA:447:G:C8	2.59	0.49
1:AA:44:G:H2'	1:AA:45:U:H5'	1.94	0.49
1:AA:468:A:C5	1:AA:474:G:C5	3.00	0.49
1:AA:595:G:N7	1:AA:641:U:C4	2.80	0.49
1:AA:720:C:H4'	20:AU:50:ILE:HG22	1.94	0.49
1:AA:769:G:H22	1:AA:811:C:H1'	1.77	0.49
1:AA:778:G:C6	1:AA:779:C:C4	2.99	0.49
1:AA:817:C:O2'	1:AA:818:G:OP2	2.30	0.49
1:AA:929:G:C6	1:AA:930:C:C5	3.00	0.49
1:AA:935:A:C4	1:AA:936:C:C5	3.00	0.49
1:AA:947:G:C2	1:AA:948:C:N1	2.80	0.49
1:AA:960:U:H2'	1:AA:960:U:O2	2.11	0.49
1:AA:967:C:OP2	1:AA:968:A:H3'	2.13	0.49
3:AB:63:G:O2'	24:BA:2482:G:C5'	2.60	0.49
3:AC:47:U:C6	3:AC:47:U:C3'	2.94	0.49
3:AC:19:G:N2	3:AC:56:C:N3	2.60	0.49
3:AC:65:G:H2'	3:AC:66:U:H6	1.77	0.49
3:AC:75:C:OP2	24:BA:2602:A:C8	2.65	0.49
4:AE:136:VAL:CA	4:AE:139:LYS:NZ	2.73	0.49
4:AE:177:ALA:O	4:AE:178:ARG:C	2.49	0.49
4:AE:61:LEU:HD21	4:AE:68:ILE:HD11	1.93	0.49
5:AF:12:LEU:CD1	16:AQ:57:ARG:HG3	2.41	0.49
1:AA:1107:C:OP1	5:AF:172:ARG:NH1	2.45	0.49
5:AF:6:HIS:NE2	5:AF:8:ILE:HB	2.26	0.49
6:AG:135:LEU:CD1	6:AG:138:TYR:HB2	2.39	0.49
7:AH:44:GLY:O	7:AH:58:ALA:HB1	2.12	0.49
8:AI:42:GLU:HB2	8:AI:61:LEU:CD2	2.41	0.49
8:AI:1:MET:HB3	8:AI:67:MET:O	2.12	0.49
8:AI:96:PRO:HD2	20:AU:32:ARG:HE	1.76	0.49
11:AL:47:LEU:O	11:AL:50:LEU:HB3	2.13	0.49
11:AL:5:TYR:HD2	11:AL:6:GLY:N	2.10	0.49
12:AM:23:ILE:HG13	12:AM:85:LEU:CB	2.30	0.49
15:AP:23:TYR:HD2	15:AP:70:LEU:HD13	1.77	0.49
15:AP:4:ILE:O	15:AP:5:ALA:CB	2.60	0.49
17:AR:29:VAL:O	17:AR:30:ALA:C	2.50	0.49
17:AR:79:ARG:HA	17:AR:82:ILE:CD1	2.42	0.49
17:AR:83:GLU:O	17:AR:84:LYS:C	2.49	0.49
18:AS:14:ASN:CA	18:AS:42:ARG:NH2	2.76	0.49
20:AU:49:LYS:CE	20:AU:49:LYS:H	2.20	0.49
13:AN:84:VAL:HG21	20:AU:88:LYS:NZ	2.27	0.49
44:BW:7:VAL:HG23	48:B1:28:MET:CE	2.42	0.49
24:BA:2345:G:P	52:B5:39:TYR:HA	2.52	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:B6:41:ARG:CG	53:B6:42:LEU:N	2.74	0.49
53:B6:5:TRP:HA	53:B6:5:TRP:HE3	1.77	0.49
54:B7:9:GLY:O	54:B7:10:ALA:C	2.50	0.49
24:BA:1103:A:OP2	24:BA:1104:C:C6	2.65	0.49
24:BA:991:C:C5	24:BA:1185:C:C4	3.00	0.49
24:BA:1196:C:H2'	24:BA:1197:G:C1'	2.42	0.49
24:BA:1309:G:OP1	53:B6:8:ASN:ND2	2.44	0.49
24:BA:1312:U:C6	24:BA:1313:U:C5	3.00	0.49
24:BA:1361:G:H2'	24:BA:1362:C:H6	1.77	0.49
24:BA:1475:G:C2	24:BA:1476:C:H6	2.31	0.49
24:BA:1544:C:O2'	24:BA:1545:A:O4'	2.30	0.49
24:BA:1575:C:N4	24:BA:1576:U:C4	2.80	0.49
24:BA:1672:C:H2'	24:BA:1673:U:H5''	1.94	0.49
24:BA:1905:C:H2'	24:BA:1930:G:C8	2.47	0.49
24:BA:2007:C:N3	24:BA:2008:C:C5	2.80	0.49
24:BA:2041:U:C2	24:BA:2042:A:N7	2.80	0.49
24:BA:2051:A:C2'	28:BE:141:ILE:HD11	2.43	0.49
24:BA:2052:G:C4	24:BA:2053:G:C8	2.99	0.49
24:BA:2076:U:C5'	24:BA:2077:A:P	3.00	0.49
24:BA:220:G:O6	24:BA:427:U:H3'	2.12	0.49
24:BA:2247:A:H2'	24:BA:2248:C:H6	1.76	0.49
24:BA:2311:A:H2	30:BG:45:GLU:CD	2.14	0.49
24:BA:2385:C:C4	24:BA:2386:C:C5	3.01	0.49
24:BA:2427:C:H4'	24:BA:2428:G:C5'	2.42	0.49
24:BA:2461:C:O2'	24:BA:2462:U:H5'	2.11	0.49
24:BA:251:A:OP2	24:BA:251:A:H3'	2.12	0.49
24:BA:2589:A:C4	24:BA:2590:A:C8	3.01	0.49
24:BA:2675:A:N1	24:BA:2732:G:C2	2.80	0.49
24:BA:2736:G:C2	24:BA:2769:C:C2	3.00	0.49
24:BA:2808:U:C2	24:BA:2892:A:C6	2.99	0.49
24:BA:2850:A:C5	24:BA:2851:A:N7	2.80	0.49
24:BA:2881:C:C2	24:BA:2882:A:N7	2.80	0.49
24:BA:493:G:N2	24:BA:494:G:C1'	2.75	0.49
24:BA:531:C:O4'	24:BA:2035:G:N2	2.43	0.49
24:BA:572:A:N7	24:BA:573:G:C5	2.80	0.49
24:BA:590:A:H5'	29:BF:93:LYS:HZ2	1.76	0.49
24:BA:602:G:H4'	24:BA:603:A:O3'	2.12	0.49
24:BA:646:A:C2	24:BA:647:G:C5	3.00	0.49
24:BA:744:G:H5'	24:BA:1659:U:OP1	2.12	0.49
24:BA:764:A:OP1	27:BD:211:ARG:HB3	2.12	0.49
24:BA:820:A:N7	24:BA:973:A:N6	2.59	0.49
24:BA:858:U:C5	24:BA:859:G:N2	2.80	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:863:A:H2'	24:BA:864:G:C8	2.47	0.49
24:BA:962:G:C2	24:BA:963:U:C2	3.00	0.49
24:BA:988:A:HO2'	24:BA:1157:G:H5'	1.75	0.49
25:BB:16:G:H22	25:BB:69:G:H1'	1.77	0.49
25:BB:81:G:C5	25:BB:82:G:N7	2.80	0.49
27:BD:105:ILE:CD1	27:BD:106:ILE:N	2.70	0.49
27:BD:117:VAL:CG2	27:BD:126:GLN:NE2	2.68	0.49
27:BD:172:TYR:CE2	27:BD:186:HIS:CD2	3.00	0.49
27:BD:91:ARG:NH2	27:BD:198:ASN:ND2	2.61	0.49
28:BE:154:LYS:HD2	28:BE:154:LYS:O	2.12	0.49
28:BE:37:ARG:O	28:BE:39:PRO:CD	2.60	0.49
28:BE:55:ASN:O	28:BE:57:LYS:N	2.46	0.49
24:BA:2787:C:C2	28:BE:61:ARG:CZ	2.96	0.49
28:BE:49:LEU:CD2	28:BE:75:VAL:C	2.79	0.49
30:BG:114:ILE:HG12	30:BG:140:ILE:HD11	1.93	0.49
31:BH:118:PRO:CG	31:BH:144:VAL:HG21	2.37	0.49
31:BH:152:ARG:CG	31:BH:152:ARG:HH21	2.26	0.49
31:BH:43:VAL:CG1	31:BH:51:ARG:O	2.52	0.49
24:BA:2748:A:C4	31:BH:67:LEU:HD21	2.41	0.49
31:BH:76:VAL:O	31:BH:78:GLY:N	2.46	0.49
32:BK:43:ASN:O	32:BK:46:ALA:HB3	2.12	0.49
33:BL:11:GLN:O	33:BL:12:LEU:HD23	2.12	0.49
33:BL:18:THR:CG2	33:BL:38:VAL:HG21	2.42	0.49
34:BM:107:LEU:C	34:BM:107:LEU:CD2	2.71	0.49
34:BM:122:VAL:C	34:BM:123:TYR:CG	2.85	0.49
34:BM:23:LEU:HB2	34:BM:63:THR:HG23	1.94	0.49
35:BN:19:ILE:O	35:BN:19:ILE:CD1	2.53	0.49
24:BA:1665:A:C4'	35:BN:66:LYS:HB2	2.43	0.49
35:BN:71:ARG:N	35:BN:72:PRO:HD2	2.27	0.49
37:BP:46:GLN:NE2	37:BP:126:PRO:HG3	2.27	0.49
37:BP:51:ARG:HD3	37:BP:52:VAL:CA	2.42	0.49
38:BQ:102:GLU:HG3	38:BQ:103:ARG:N	2.26	0.49
38:BQ:14:SER:CA	38:BQ:17:ARG:HG2	2.42	0.49
38:BQ:97:VAL:O	38:BQ:98:LEU:CD2	2.60	0.49
40:BS:9:LEU:O	40:BS:10:VAL:C	2.51	0.49
41:BT:112:ARG:HH22	42:BU:49:THR:CG2	2.22	0.49
24:BA:532:A:N7	41:BT:45:TYR:CE2	2.80	0.49
42:BU:79:VAL:CG1	42:BU:81:TYR:CD1	2.95	0.49
43:BV:59:VAL:HG21	43:BV:66:GLU:HG3	1.94	0.49
45:BX:17:SER:OG	45:BX:19:LYS:HE3	2.11	0.49
46:BY:145:GLU:O	46:BY:147:GLY:N	2.45	0.49
46:BY:48:PHE:CB	46:BY:54:HIS:CE1	2.91	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2124:G:H2'	26:BC:217:THR:OG1	2.12	0.49
24:BA:2146:C:C6	24:BA:2146:C:O5'	2.66	0.49
24:BA:2168:G:N3	24:BA:2170:A:H8	2.10	0.49
3:AB:71:G:N2	3:AB:72:C:C1'	2.68	0.49
1:AA:1171:G:C2'	1:AA:1172:C:C6	2.95	0.49
3:AD:41:C:H2'	3:AD:42:C:O4'	2.12	0.49
3:AD:44:G:H2'	3:AD:45:U:H5'	1.94	0.49
1:AA:511:C:O2'	1:AA:512:U:P	2.70	0.49
1:AA:1298:C:C2	9:AJ:114:ARG:NH1	2.80	0.49
1:AA:1319:A:OP1	21:AV:5:LEU:HD11	2.12	0.49
1:AA:1306:A:C2	1:AA:1332:A:C8	3.00	0.49
1:AA:1348:U:OP2	11:AL:109:VAL:HA	2.13	0.49
1:AA:136:C:H2'	1:AA:137:C:H6	1.77	0.49
1:AA:1400:C:C6	1:AA:1400:C:OP1	2.66	0.49
1:AA:1415:G:H2'	1:AA:1416:G:O5'	2.12	0.49
1:AA:1431:C:H2'	1:AA:1432:G:C4'	2.42	0.49
1:AA:1451:A:H8	1:AA:1451:A:OP1	1.95	0.49
1:AA:1479:C:H2'	1:AA:1480:G:O4'	2.12	0.49
1:AA:1480:G:C2'	1:AA:1481:U:O5'	2.60	0.49
1:AA:15:G:C2	1:AA:16:A:C5	3.01	0.49
1:AA:735:C:H4'	20:AU:75:ILE:HD11	1.95	0.49
1:AA:745:C:H2'	1:AA:746:A:H8	1.76	0.49
1:AA:874:G:C2	1:AA:875:C:C6	3.00	0.49
1:AA:924:C:H2'	1:AA:925:G:C8	2.47	0.49
1:AA:937:A:H1'	1:AA:1379:G:H22	1.77	0.49
1:AA:975:A:O2'	1:AA:1358:U:C1'	2.54	0.49
3:AB:13:C:O2'	3:AB:14:A:H4'	2.12	0.49
3:AC:58:A:H2'	3:AC:61:C:C5	2.46	0.49
3:AD:34:G:OP1	3:AD:35:A:C8	2.64	0.49
4:AE:153:ARG:NH2	4:AE:154:LEU:O	2.45	0.49
4:AE:71:VAL:O	4:AE:165:VAL:HG22	2.12	0.49
4:AE:43:ASP:OD1	4:AE:44:LEU:N	2.45	0.49
5:AF:12:LEU:HD12	5:AF:18:TRP:CH2	2.46	0.49
5:AF:142:MET:CA	5:AF:146:ALA:HB3	2.43	0.49
5:AF:15:THR:HG21	5:AF:181:ASN:N	2.26	0.49
6:AG:128:VAL:CG1	6:AG:129:ASN:N	2.75	0.49
6:AG:12:CYS:SG	6:AG:19:LEU:O	2.70	0.49
6:AG:165:MET:O	6:AG:166:LYS:C	2.50	0.49
1:AA:9:G:C8	7:AH:126:ARG:CZ	2.95	0.49
7:AH:145:LYS:O	7:AH:148:VAL:CB	2.50	0.49
7:AH:26:PHE:HD1	7:AH:26:PHE:N	2.08	0.49
7:AH:91:LEU:HD12	7:AH:118:ILE:HG23	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AI:7:ASN:O	8:AI:89:MET:O	2.30	0.49
10:AK:6:ILE:HG21	10:AK:85:ARG:HH22	1.76	0.49
10:AK:98:LYS:NZ	10:AK:98:LYS:H	1.90	0.49
11:AL:15:ALA:HB3	11:AL:76:ALA:C	2.32	0.49
11:AL:23:ASN:HD22	11:AL:24:GLY:N	2.09	0.49
14:AO:117:ARG:O	14:AO:121:GLY:HA2	2.12	0.49
18:AS:56:ALA:HB1	18:AS:79:VAL:HG11	1.92	0.49
19:AT:33:GLY:O	19:AT:34:LYS:C	2.50	0.49
19:AT:21:VAL:O	19:AT:42:TYR:O	2.29	0.49
20:AU:62:GLU:C	20:AU:66:LEU:HG	2.31	0.49
21:AV:51:VAL:HB	21:AV:58:VAL:HG22	1.94	0.49
22:AW:65:LYS:O	22:AW:68:LYS:HG2	2.12	0.49
48:B1:12:SER:H	48:B1:15:GLU:CD	2.15	0.49
51:B4:41:PRO:O	51:B4:42:PRO:C	2.49	0.49
52:B5:30:THR:CB	52:B5:31:PRO:HD3	2.42	0.49
24:BA:1009:A:N3	24:BA:1153:C:O2'	2.33	0.49
24:BA:10:G:C2	24:BA:2629:A:N3	2.80	0.49
24:BA:1125:G:H5''	55:B8:4:ARG:HD2	1.94	0.49
24:BA:1128:A:C5	24:BA:2518:A:N6	2.80	0.49
24:BA:1197:G:N7	24:BA:1198:U:C5	2.80	0.49
24:BA:331:A:C6	24:BA:1209:G:C4	3.00	0.49
24:BA:1210:A:C1'	24:BA:1212:G:H21	2.25	0.49
24:BA:134:C:O5'	24:BA:134:C:H6	1.94	0.49
24:BA:1357:U:O4	24:BA:1358:G:C2	2.65	0.49
24:BA:188:G:O4'	24:BA:1365:A:C2	2.66	0.49
24:BA:1372:U:O2'	24:BA:1373:A:H5'	2.11	0.49
24:BA:1395:A:OP1	24:BA:1602:U:O2'	2.29	0.49
24:BA:1455:G:O2'	24:BA:1456:G:H5'	2.12	0.49
24:BA:1651:G:N2	24:BA:1652:A:C2	2.80	0.49
24:BA:1689:A:C2	24:BA:1690:A:N7	2.79	0.49
24:BA:1690:A:N3	24:BA:1691:C:O4'	2.45	0.49
24:BA:155:C:C4	24:BA:171:G:N1	2.80	0.49
24:BA:1748:G:H2'	24:BA:1749:A:H8	1.73	0.49
24:BA:1772:G:C2	24:BA:1773:A:O2'	2.65	0.49
24:BA:1827:C:O2	24:BA:1828:G:H1'	2.12	0.49
24:BA:414:C:O2	24:BA:1864:U:H4'	2.11	0.49
24:BA:2021:C:H41	41:BT:28:ARG:HH22	1.60	0.49
24:BA:2022:U:O2	24:BA:2022:U:C2'	2.54	0.49
24:BA:2047:U:C2'	24:BA:2048:G:O5'	2.60	0.49
24:BA:2072:G:H2'	24:BA:2073:C:C5	2.46	0.49
24:BA:2076:U:H2'	24:BA:2076:U:O2	2.12	0.49
24:BA:2265:U:C2'	24:BA:2266:A:OP1	2.60	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2305:A:H62	24:BA:2306:C:H5	1.60	0.49
24:BA:2325:G:O2'	24:BA:2326:C:H5'	2.11	0.49
24:BA:2452:C:H2'	24:BA:2453:A:O4'	2.12	0.49
24:BA:2466:C:P	55:B8:5:ALA:HB3	2.52	0.49
24:BA:2458:G:C6	24:BA:2490:G:C2	2.99	0.49
24:BA:2589:A:C2'	24:BA:2590:A:H5'	2.41	0.49
24:BA:2657:A:N1	24:BA:2665:A:H1'	2.26	0.49
24:BA:2756:U:C2	24:BA:2758:A:C6	2.98	0.49
24:BA:2849:U:H2'	24:BA:2850:A:OP2	2.11	0.49
24:BA:319:C:N4	24:BA:320:A:N6	2.60	0.49
24:BA:455:C:C5'	24:BA:456:C:OP1	2.60	0.49
24:BA:470:A:N6	24:BA:471:A:C2	2.80	0.49
24:BA:503:A:H2	24:BA:506:G:C2	2.30	0.49
24:BA:552:G:C6	24:BA:553:U:C4	3.00	0.49
24:BA:60:G:O2'	24:BA:61:G:P	2.70	0.49
24:BA:711:G:C6	24:BA:712:G:N7	2.80	0.49
24:BA:70:G:H4'	24:BA:71:A:O5'	2.10	0.49
24:BA:904:C:H2'	24:BA:905:U:H6	1.77	0.49
24:BA:963:U:O2	24:BA:963:U:H2'	2.11	0.49
25:BB:109:G:N1	25:BB:110:G:C6	2.80	0.49
25:BB:16:G:O2'	25:BB:17:C:C5'	2.60	0.49
25:BB:75:G:H21	46:BY:27:VAL:HG21	1.76	0.49
27:BD:122:ASP:N	27:BD:135:PHE:HE2	2.08	0.49
27:BD:136:ILE:HD12	27:BD:168:ARG:CZ	2.42	0.49
27:BD:141:VAL:HG12	27:BD:194:GLY:O	2.12	0.49
27:BD:91:ARG:NH1	27:BD:198:ASN:HD22	2.11	0.49
27:BD:181:GLU:OE1	27:BD:271:ILE:O	2.30	0.49
24:BA:691:C:C2'	27:BD:45:ASN:HD21	2.25	0.49
27:BD:61:LEU:O	27:BD:62:TYR:CB	2.60	0.49
24:BA:1655:A:H5''	28:BE:114:ALA:CA	2.42	0.49
29:BF:101:LEU:O	29:BF:106:ARG:CZ	2.60	0.49
29:BF:178:PRO:O	29:BF:180:GLY:N	2.41	0.49
30:BG:151:ALA:C	30:BG:152:LEU:CG	2.80	0.49
30:BG:18:GLU:C	30:BG:18:GLU:OE1	2.50	0.49
30:BG:26:GLN:NE2	30:BG:31:VAL:HG22	2.23	0.49
31:BH:11:VAL:HG22	31:BH:76:VAL:HG11	1.94	0.49
31:BH:33:LEU:HD22	31:BH:75:ALA:HB2	1.94	0.49
31:BH:8:PRO:O	31:BH:9:ILE:HG13	2.11	0.49
32:BK:21:VAL:HB	32:BK:26:ALA:CA	2.39	0.49
33:BL:33:ASN:O	33:BL:37:PHE:HB2	2.12	0.49
34:BM:22:THR:HG21	34:BM:61:ARG:HH12	1.78	0.49
34:BM:23:LEU:HD12	34:BM:63:THR:N	2.21	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:BM:74:ARG:NE	34:BM:82:LEU:CD1	2.76	0.49
35:BN:89:ASN:HD21	35:BN:91:LEU:HB2	1.74	0.49
36:BO:114:ILE:O	36:BO:116:GLY:N	2.41	0.49
37:BP:59:ARG:NH2	37:BP:62:GLY:H	2.10	0.49
39:BR:106:ARG:NH1	39:BR:106:ARG:O	2.44	0.49
40:BS:30:VAL:HG23	40:BS:31:SER:H	1.77	0.49
40:BS:31:SER:C	40:BS:32:TYR:CG	2.81	0.49
40:BS:59:THR:N	40:BS:61:PHE:CE2	2.80	0.49
40:BS:76:PHE:CZ	40:BS:78:LEU:CG	2.94	0.49
41:BT:37:GLU:O	41:BT:40:PHE:N	2.45	0.49
41:BT:76:TYR:O	41:BT:77:SER:C	2.50	0.49
41:BT:96:ALA:O	41:BT:100:VAL:HG23	2.12	0.49
41:BT:88:ILE:CG1	42:BU:52:VAL:HG22	2.41	0.49
42:BU:78:LYS:HB2	42:BU:78:LYS:HZ3	1.76	0.49
43:BV:22:ASP:HA	43:BV:75:TYR:OH	2.11	0.49
44:BW:73:ARG:HH22	44:BW:74:PRO:C	2.16	0.49
45:BX:39:VAL:O	45:BX:39:VAL:HG12	2.13	0.49
45:BX:67:LEU:CD1	45:BX:71:LYS:NZ	2.75	0.49
46:BY:1:MET:HE3	46:BY:3:TYR:HD2	1.78	0.49
46:BY:10:ARG:CB	46:BY:36:LYS:HD2	2.25	0.49
46:BY:79:ARG:O	46:BY:80:ARG:HG3	2.12	0.49
32:BK:111:PRO:HG2	32:BK:112:LYS:CD	2.37	0.49
32:BK:91:SER:HB2	32:BK:119:PRO:CB	2.42	0.49
26:BC:108:MET:CE	26:BC:131:LEU:HD23	2.42	0.49
26:BC:131:LEU:CD1	26:BC:137:LEU:HA	2.42	0.49
24:BA:1485:G:H2'	24:BA:1486:A:H8	1.74	0.49
24:BA:1503:U:H2'	24:BA:1504:C:H6	1.70	0.49
24:BA:182:A:O2'	24:BA:183:C:O4'	2.29	0.49
24:BA:363(A):A:C2'	24:BA:363(B):G:O5'	2.60	0.49
24:BA:1563:G:C4	24:BA:1564:C:C5	3.00	0.49
1:AA:1002:G:N7	1:AA:1004:A:N1	2.60	0.49
1:AA:108:G:O6	22:AW:15:ARG:HD2	2.12	0.49
1:AA:1251:A:C2	1:AA:1252:A:C6	3.01	0.49
1:AA:1287:A:H2'	1:AA:1288:A:N7	2.28	0.49
1:AA:1307:U:N3	1:AA:1308:U:C5	2.80	0.49
1:AA:1399:C:O2	1:AA:1401:G:C5	2.66	0.49
1:AA:1428:A:C4	1:AA:1429:C:C5	3.01	0.49
1:AA:1440:C:C2	1:AA:1441:G:C8	3.00	0.49
1:AA:1499:A:H8	1:AA:1499:A:O5'	1.96	0.49
1:AA:176:C:O2'	1:AA:177:C:H5'	2.13	0.49
1:AA:186(A):C:N4	1:AA:191:G:C6	2.80	0.49
1:AA:208:U:O3'	1:AA:209:U:H6	1.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:226:G:O2'	1:AA:227:G:C5'	2.59	0.49
1:AA:236:G:C2'	1:AA:237:C:C6	2.95	0.49
1:AA:325:A:H2'	1:AA:326:G:O5'	2.13	0.49
1:AA:327:A:C2	1:AA:329:A:N3	2.80	0.49
1:AA:407:G:C1'	6:AG:119:GLN:OE1	2.60	0.49
1:AA:413:G:C2'	1:AA:414:A:OP2	2.60	0.49
1:AA:501:C:O2'	1:AA:549:C:O2	2.26	0.49
1:AA:584:G:H2'	1:AA:585:G:O5'	2.13	0.49
1:AA:5:U:N3	6:AG:86:LYS:HB3	2.27	0.49
1:AA:610:G:H2'	1:AA:611:A:H5'	1.92	0.49
1:AA:67:C:O2	1:AA:171:A:C2	2.64	0.49
1:AA:711:G:O2'	1:AA:712:A:C5'	2.61	0.49
1:AA:870:U:C5'	1:AA:871:U:OP1	2.61	0.49
1:AA:956:U:O2'	1:AA:957:U:H5'	2.13	0.49
1:AA:1229:A:O2'	3:AC:30:G:OP1	2.31	0.49
3:AC:19:G:N2	3:AC:57:G:C4	2.80	0.49
4:AE:187:LEU:HA	4:AE:201:ILE:HB	1.93	0.49
4:AE:76:GLN:O	4:AE:211:ILE:CD1	2.61	0.49
4:AE:88:ALA:HA	4:AE:222:ILE:HD11	1.93	0.49
5:AF:138:VAL:O	5:AF:139:GLN:C	2.50	0.49
6:AG:121:VAL:O	6:AG:134:ASP:CB	2.61	0.49
6:AG:155:LEU:CB	6:AG:158:ILE:HG12	2.33	0.49
6:AG:199:ASN:CG	6:AG:200:GLU:N	2.64	0.49
6:AG:32:ALA:C	6:AG:34:GLU:N	2.63	0.49
6:AG:87:GLY:O	6:AG:88:VAL:C	2.51	0.49
7:AH:54:ALA:O	7:AH:57:LYS:HB3	2.13	0.49
8:AI:41:GLU:O	8:AI:42:GLU:CB	2.60	0.49
9:AJ:49:ILE:HG12	9:AJ:121:ALA:HB2	1.94	0.49
9:AJ:46:ALA:O	9:AJ:49:ILE:N	2.46	0.49
10:AK:36:LEU:C	10:AK:39:LEU:HB2	2.33	0.49
7:AH:152:ARG:NH2	10:AK:44:PHE:N	2.59	0.49
10:AK:82:HIS:CE1	10:AK:84:ARG:HG3	2.48	0.49
10:AK:85:ARG:CD	10:AK:134:ILE:O	2.59	0.49
10:AK:97:VAL:HG13	10:AK:98:LYS:HZ2	1.75	0.49
11:AL:11:LYS:O	11:AL:11:LYS:CG	2.59	0.49
11:AL:69:GLY:O	11:AL:73:GLN:HG3	2.12	0.49
12:AM:16:LEU:HD22	12:AM:16:LEU:N	2.27	0.49
12:AM:24:VAL:HG13	12:AM:34:VAL:HG11	1.95	0.49
12:AM:56:HIS:O	12:AM:58:ASP:N	2.42	0.49
14:AO:25:PRO:HD2	14:AO:98:TYR:OH	2.12	0.49
15:AP:16:ASP:HB3	15:AP:34:LEU:HD11	1.93	0.49
17:AR:59:MET:O	17:AR:62:GLN:HB3	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:AR:79:ARG:HA	17:AR:82:ILE:HD12	1.94	0.49
21:AV:22:LEU:C	21:AV:24:ALA:N	2.64	0.49
21:AV:40:ILE:O	21:AV:68:GLY:CA	2.59	0.49
48:B1:12:SER:N	48:B1:15:GLU:OE1	2.45	0.49
49:B2:22:ALA:HB1	49:B2:46:ASN:CG	2.32	0.49
49:B2:4:LEU:HD23	49:B2:5:LYS:O	2.12	0.49
52:B5:28:ARG:O	52:B5:32:ASN:HA	2.13	0.49
53:B6:33:ARG:CG	53:B6:37:LYS:HD3	2.33	0.49
24:BA:1047:G:H2'	24:BA:1110:G:H1	1.72	0.49
24:BA:1052:C:O2'	24:BA:1053:C:C5'	2.59	0.49
24:BA:116:C:H4'	24:BA:127:A:C4'	2.41	0.49
24:BA:1175:U:H3'	24:BA:1176:G:O4'	2.13	0.49
24:BA:1200:C:C2	24:BA:1246:A:C2	3.01	0.49
24:BA:1210:A:C1'	24:BA:1212:G:N2	2.75	0.49
24:BA:1338:G:O2'	44:BW:16:LYS:NZ	2.39	0.49
24:BA:1427:A:O2'	24:BA:1428:C:P	2.70	0.49
24:BA:1615:C:C5	24:BA:1617:C:C2	3.00	0.49
24:BA:1682:G:H5'	24:BA:1762:A:O2'	2.13	0.49
24:BA:1752:C:C5'	24:BA:2862:G:OP1	2.61	0.49
24:BA:1861:G:H4'	26:BC:205:LYS:HZ2	1.76	0.49
24:BA:1936:A:C8	24:BA:1945:G:O6	2.66	0.49
24:BA:193:U:O4	24:BA:202:U:O2	2.30	0.49
24:BA:1982:C:H2'	24:BA:1983:C:C6	2.47	0.49
24:BA:2024:G:C5	24:BA:2025:C:C5	3.00	0.49
24:BA:2051:A:O2'	24:BA:2052:G:P	2.71	0.49
24:BA:793:A:OP2	24:BA:2072:G:H5'	2.13	0.49
24:BA:215:G:H4'	24:BA:216:A:C5'	2.41	0.49
24:BA:2209:C:HO2'	24:BA:2210:G:H3'	1.76	0.49
24:BA:2297:C:C4	24:BA:2333:A:N6	2.76	0.49
24:BA:2297:C:N3	24:BA:2333:A:N6	2.60	0.49
24:BA:2298:A:H2'	24:BA:2299:G:C8	2.47	0.49
24:BA:2282:G:O2'	24:BA:2390:U:O4	2.21	0.49
24:BA:411:G:H5'	24:BA:2407:G:OP2	2.12	0.49
24:BA:2558:C:C2'	24:BA:2559:C:O5'	2.61	0.49
24:BA:2560:C:H2'	24:BA:2561:A:H5'	1.95	0.49
24:BA:2617:C:C2	24:BA:2618:G:H8	2.30	0.49
24:BA:2620:C:C2'	24:BA:2621:A:O5'	2.60	0.49
24:BA:2651:C:C2	24:BA:2652:C:C5	3.01	0.49
24:BA:2674:G:H4'	35:BN:26:LYS:HZ3	1.77	0.49
24:BA:2681:C:C5	24:BA:2727:G:N2	2.81	0.49
24:BA:2709:G:C2'	24:BA:2710:C:C5'	2.89	0.49
24:BA:2716:U:H2'	24:BA:2717:G:H8	1.77	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2812:G:C2	24:BA:2813:A:C5	3.01	0.49
24:BA:292:C:O5'	24:BA:293:U:O4	2.31	0.49
24:BA:296:C:C2'	24:BA:297:C:O4'	2.60	0.49
24:BA:370:G:O2'	24:BA:371:A:O4'	2.25	0.49
24:BA:385:C:O2'	24:BA:386:G:C5'	2.60	0.49
24:BA:410:G:H3'	24:BA:411:G:C8	2.47	0.49
24:BA:467:G:C2'	24:BA:468:G:H5'	2.43	0.49
24:BA:50:U:H3'	24:BA:50:U:C6	2.46	0.49
24:BA:547:A:N6	24:BA:548:A:N1	2.60	0.49
24:BA:635:C:H2'	24:BA:636:G:O4'	2.12	0.49
24:BA:71:A:C2	24:BA:73:A:N1	2.80	0.49
24:BA:728:G:C1'	24:BA:729:G:H8	2.25	0.49
24:BA:730:C:OP2	24:BA:763:G:OP1	2.29	0.49
24:BA:851:U:O4'	49:B2:46:ASN:ND2	2.29	0.49
24:BA:874:G:N1	24:BA:875:G:C5	2.80	0.49
24:BA:985:C:H2'	24:BA:986:C:C5	2.48	0.49
25:BB:6:C:H5'	25:BB:27:C:H2'	1.95	0.49
25:BB:83:G:H5'	49:B2:52:HIS:NE2	2.27	0.49
27:BD:231:HIS:O	27:BD:233:HIS:N	2.44	0.49
27:BD:246:PRO:HD2	27:BD:250:TRP:CA	2.42	0.49
27:BD:181:GLU:CD	27:BD:271:ILE:O	2.50	0.49
28:BE:142:GLY:C	28:BE:143:ASN:CG	2.71	0.49
28:BE:14:ILE:O	28:BE:14:ILE:HD12	2.12	0.49
28:BE:31:CYS:O	28:BE:33:VAL:N	2.44	0.49
28:BE:44:TYR:C	28:BE:45:THR:CG2	2.79	0.49
28:BE:91:VAL:HG13	28:BE:93:VAL:HG22	1.90	0.49
29:BF:107:LYS:O	29:BF:108:LYS:C	2.51	0.49
29:BF:118:ALA:CB	29:BF:122:LYS:HB2	2.42	0.49
29:BF:132:VAL:HG22	29:BF:135:LYS:CB	2.42	0.49
24:BA:2059:A:O3'	29:BF:69:HIS:O	2.30	0.49
29:BF:74:ARG:HH12	29:BF:76:GLY:H	1.55	0.49
30:BG:8:LYS:NZ	30:BG:176:LEU:HD11	2.23	0.49
30:BG:86:MET:N	30:BG:87:PRO:CD	2.72	0.49
31:BH:136:ILE:HG23	31:BH:140:LYS:HE2	1.94	0.49
31:BH:54:ARG:NH1	31:BH:57:ASP:HA	2.27	0.49
33:BL:12:LEU:CD1	33:BL:23:VAL:HG21	2.43	0.49
34:BM:10:GLU:HB3	34:BM:39:ARG:HH12	1.76	0.49
34:BM:17:ASP:OD1	34:BM:19:GLU:O	2.31	0.49
34:BM:23:LEU:HD21	34:BM:62:VAL:HA	1.93	0.49
34:BM:91:LEU:HA	34:BM:95:PRO:CA	2.43	0.49
35:BN:85:VAL:CG1	35:BN:86:ILE:N	2.73	0.49
36:BO:50:ARG:NH2	54:B7:6:THR:OG1	2.45	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BO:58:THR:HG23	54:B7:13:ARG:H	1.76	0.49
36:BO:6:LEU:C	36:BO:7:ARG:HG3	2.32	0.49
36:BO:86:LYS:HZ1	36:BO:99:LEU:HD11	1.77	0.49
38:BQ:96:ARG:O	38:BQ:114:VAL:HA	2.13	0.49
38:BQ:13:HIS:HB3	38:BQ:16:HIS:HD2	1.66	0.49
38:BQ:65:LEU:O	38:BQ:66:VAL:C	2.46	0.49
38:BQ:26:LYS:CE	38:BQ:70:LEU:HA	2.41	0.49
39:BR:12:PHE:C	39:BR:12:PHE:CD1	2.85	0.49
39:BR:92:TYR:CE2	39:BR:93:LYS:HB3	2.48	0.49
40:BS:109:GLU:O	40:BS:110:ILE:CB	2.59	0.49
40:BS:112:ARG:O	40:BS:113:LYS:C	2.50	0.49
40:BS:55:ASN:O	40:BS:57:PHE:CE2	2.66	0.49
41:BT:27:LEU:C	41:BT:29:SER:N	2.62	0.49
42:BU:20:LEU:HD22	42:BU:68:LYS:HZ1	1.77	0.49
42:BU:14:VAL:CG2	42:BU:21:ARG:HH22	2.23	0.49
42:BU:6:LYS:HZ3	42:BU:10:LYS:CB	2.20	0.49
42:BU:78:LYS:HB2	42:BU:84:LYS:CB	2.42	0.49
45:BX:53:PRO:C	45:BX:55:TYR:N	2.63	0.49
46:BY:25:PRO:HG2	46:BY:84:GLU:O	2.12	0.49
46:BY:56:VAL:HG11	46:BY:135:GLU:OE2	2.12	0.49
25:BB:76:G:C5'	46:BY:85:HIS:ND1	2.74	0.49
3:AD:17:C:C5	3:AD:19:G:H8	2.30	0.49
3:AD:63:G:C2	3:AD:64:A:C4	3.00	0.49
26:BC:19:ILE:O	26:BC:19:ILE:HG22	2.12	0.49
26:BC:19:ILE:CG2	26:BC:223:ARG:HG2	2.40	0.49
26:BC:59:ARG:NH1	26:BC:164:ARG:CG	2.75	0.49
24:BA:1489:U:O2'	24:BA:1490:A:P	2.70	0.49
1:AA:341:C:C2'	1:AA:342:C:O5'	2.61	0.49
1:AA:1009:G:N2	1:AA:1010:G:H1'	2.27	0.49
2:A1:40:U:H2'	2:A1:41:U:H6	1.77	0.49
1:AA:60:A:H62	1:AA:110:C:N4	2.10	0.49
1:AA:1227:A:OP2	15:AP:111:LYS:HE3	2.13	0.49
1:AA:123:C:O2'	1:AA:290:C:H1'	2.13	0.49
1:AA:1253:G:C2	1:AA:1285:A:N6	2.75	0.49
1:AA:1268:A:H1'	1:AA:1326:C:O2'	2.12	0.49
1:AA:1305:G:O4'	1:AA:1305:G:P	2.71	0.49
1:AA:1251:A:H2	1:AA:1354:C:H1'	1.76	0.49
1:AA:138:G:N2	1:AA:226:G:C1'	2.74	0.49
1:AA:49:U:C4	1:AA:361:G:C2	3.00	0.49
1:AA:518:C:H3'	1:AA:530:G:H21	1.76	0.49
1:AA:521:G:C5	1:AA:529:G:N2	2.81	0.49
1:AA:565:U:N3	1:AA:566:G:O6	2.46	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:607:A:C2'	1:AA:608:A:H5'	2.42	0.49
1:AA:723:U:O2	1:AA:723:U:H2'	2.12	0.49
1:AA:797:C:C2'	1:AA:798:G:H5'	2.41	0.49
1:AA:821:G:H2'	1:AA:822:C:C6	2.42	0.49
1:AA:852:G:C6	1:AA:853:G:N7	2.81	0.49
1:AA:85:U:C2'	1:AA:86:U:H5'	2.43	0.49
1:AA:978:A:O4'	1:AA:1322:C:O2	2.30	0.49
3:AB:37:A:N6	3:AB:38:A:C2	2.81	0.49
4:AE:212:GLN:HB3	4:AE:235:SER:HG	1.71	0.49
4:AE:35:GLU:HG2	4:AE:39:ILE:C	2.33	0.49
4:AE:57:PHE:CD2	4:AE:57:PHE:C	2.86	0.49
5:AF:11:ARG:NH2	5:AF:178:LEU:HA	2.27	0.49
5:AF:188:LEU:HD13	5:AF:189:ALA:N	2.28	0.49
5:AF:77:ILE:CG2	5:AF:81:GLY:HA2	2.42	0.49
6:AG:104:VAL:HG23	6:AG:105:VAL:N	2.27	0.49
6:AG:146:ILE:N	6:AG:146:ILE:CD1	2.69	0.49
6:AG:191:ARG:HD3	6:AG:192:GLU:CA	2.42	0.49
6:AG:59:ARG:CB	6:AG:63:LYS:HZ2	2.26	0.49
7:AH:45:PHE:CD1	7:AH:47:LYS:HD2	2.47	0.49
8:AI:49:ALA:HB3	20:AU:79:LEU:N	2.28	0.49
8:AI:76:ALA:C	8:AI:80:ARG:CZ	2.81	0.49
9:AJ:149:ARG:HB3	13:AN:59:TYR:CE2	2.47	0.49
9:AJ:6:ARG:HH11	9:AJ:6:ARG:HA	1.77	0.49
10:AK:14:ARG:CA	10:AK:17:THR:OG1	2.54	0.49
10:AK:40:ALA:HB2	10:AK:45:ILE:CD1	2.41	0.49
12:AM:31:GLY:N	12:AM:81:THR:OG1	2.46	0.49
12:AM:4:ILE:HD13	12:AM:98:ILE:HG23	1.94	0.49
13:AN:66:LEU:HB2	13:AN:70:LYS:HZ2	1.76	0.49
13:AN:62:GLN:HA	13:AN:97:ALA:HB2	1.94	0.49
13:AN:95:ILE:CG2	13:AN:98:LEU:HD12	2.41	0.49
14:AO:42:THR:CA	14:AO:55:VAL:HG23	2.42	0.49
14:AO:25:PRO:CD	14:AO:98:TYR:OH	2.61	0.49
15:AP:66:LEU:HA	15:AP:70:LEU:CD1	2.33	0.49
18:AS:26:ARG:HB3	18:AS:30:GLY:HA3	1.95	0.49
19:AT:44:ALA:HB2	19:AT:59:ILE:HD13	1.95	0.49
20:AU:25:THR:HG22	20:AU:42:ARG:NE	2.28	0.49
20:AU:38:GLU:HG2	20:AU:39:VAL:H	1.77	0.49
20:AU:22:VAL:HG13	20:AU:55:ARG:HH12	1.77	0.49
22:AW:16:HIS:O	22:AW:19:SER:N	2.46	0.49
22:AW:51:GLU:HA	22:AW:54:LYS:HG3	1.94	0.49
22:AW:40:ALA:CA	22:AW:55:ILE:HG21	2.42	0.49
23:AX:12:LYS:HB3	23:AX:17:THR:O	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:B1:28:MET:HA	48:B1:31:ARG:CG	2.37	0.49
49:B2:12:PRO:HA	49:B2:15:TYR:CZ	2.46	0.49
49:B2:26:LEU:N	49:B2:26:LEU:HD13	2.26	0.49
49:B2:38:GLU:HG2	49:B2:38:GLU:O	2.11	0.49
50:B3:39:CYS:C	50:B3:40:HIS:CG	2.85	0.49
50:B3:56:VAL:C	50:B3:61:ARG:NH2	2.65	0.49
53:B6:20:ALA:HB3	53:B6:21:ARG:HH21	1.76	0.49
24:BA:1008:C:HO2'	24:BA:1009:A:P	2.35	0.49
24:BA:1008:C:O2'	24:BA:1009:A:P	2.71	0.49
24:BA:1024:G:C6	24:BA:1025:G:H8	2.26	0.49
24:BA:1139:G:C2'	24:BA:1140:C:H5''	2.39	0.49
24:BA:1154:G:O2'	24:BA:1155:A:C5'	2.61	0.49
24:BA:1272:A:C2	24:BA:1618:A:C2	3.01	0.49
24:BA:1472:A:C2'	24:BA:1473:G:O5'	2.61	0.49
24:BA:1530:G:H2'	24:BA:1531:C:C2	2.47	0.49
24:BA:1559:G:C8	24:BA:1559:G:H5''	2.47	0.49
24:BA:1613:G:N2	24:BA:1619:G:N9	2.60	0.49
24:BA:1657:C:OP1	28:BE:136:ARG:O	2.30	0.49
24:BA:1777:U:C2'	24:BA:1778:U:H5'	2.42	0.49
24:BA:1845:G:C6	24:BA:1896:G:C6	3.00	0.49
24:BA:1897:G:C6	24:BA:1898:U:C2	3.01	0.49
24:BA:1899:G:C3'	24:BA:1899:G:C8	2.95	0.49
24:BA:1924:C:H2'	24:BA:1925:C:C6	2.46	0.49
24:BA:1942:C:C5	24:BA:1943:U:C4	3.00	0.49
24:BA:1991:U:H3'	24:BA:1991:U:C6	2.47	0.49
24:BA:1999:C:H4'	24:BA:2723:C:O2	2.12	0.49
24:BA:2014:A:N3	24:BA:2015:A:C2	2.81	0.49
24:BA:2041:U:OP2	24:BA:2041:U:C6	2.66	0.49
24:BA:2452:C:O2'	24:BA:2453:A:H5'	2.13	0.49
24:BA:2520:C:H2'	24:BA:2521:C:C6	2.48	0.49
24:BA:2526:G:C2'	24:BA:2527:C:O5'	2.61	0.49
24:BA:2606:C:C6	24:BA:2606:C:H5'	2.38	0.49
24:BA:2652:C:C4	24:BA:2653:U:C4	3.00	0.49
24:BA:2694:G:C6	24:BA:2695:C:N4	2.80	0.49
24:BA:2701:C:H5'	24:BA:2701:C:H6	1.78	0.49
24:BA:2705:A:H2'	24:BA:2706:G:O5'	2.13	0.49
24:BA:270:A:OP2	24:BA:270(X):G:N2	2.37	0.49
24:BA:2717:G:HO2'	24:BA:2718:G:P	2.35	0.49
24:BA:2841:C:O2	24:BA:2842:G:C8	2.66	0.49
24:BA:379:G:C2	24:BA:396:G:C4	3.00	0.49
24:BA:533:G:C5	24:BA:534:U:C2	3.01	0.49
24:BA:547:A:H2'	24:BA:548:A:C8	2.47	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:558:G:C2'	24:BA:559:G:C5'	2.89	0.49
24:BA:587:C:O2'	24:BA:588:U:P	2.71	0.49
24:BA:592:G:N3	24:BA:592:G:H2'	2.27	0.49
24:BA:656:G:C5	24:BA:657:U:C4	3.01	0.49
24:BA:686:G:N7	53:B6:12:ARG:HB2	2.27	0.49
24:BA:740:U:H2'	24:BA:741:G:H8	1.77	0.49
24:BA:744:G:C6	24:BA:745:G:O6	2.66	0.49
24:BA:819:A:C8	24:BA:819:A:H5'	2.46	0.49
24:BA:849:A:N3	24:BA:850:C:C6	2.81	0.49
24:BA:881:G:C2	24:BA:897:C:C4	3.00	0.49
24:BA:964:C:H6	24:BA:964:C:O5'	1.95	0.49
27:BD:117:VAL:CG1	27:BD:128:GLY:C	2.79	0.49
27:BD:90:ALA:C	27:BD:91:ARG:NH1	2.66	0.49
24:BA:1204:A:C4	29:BF:188:ARG:HB2	2.45	0.49
24:BA:617:G:P	29:BF:40:GLN:OE1	2.71	0.49
29:BF:39:TRP:O	29:BF:42:ALA:HB3	2.12	0.49
29:BF:41:LEU:O	29:BF:44:ARG:NH2	2.45	0.49
30:BG:39:ILE:HG13	30:BG:157:ILE:HD11	1.92	0.49
31:BH:137:ASP:OD2	31:BH:140:LYS:HB3	2.13	0.49
31:BH:163:TYR:CB	31:BH:166:GLY:HA2	2.40	0.49
31:BH:54:ARG:C	31:BH:56:SER:H	2.15	0.49
32:BK:33:ARG:HB2	32:BK:35:LEU:HD23	1.95	0.49
33:BL:52:ILE:HG13	33:BL:80:LYS:HZ2	1.77	0.49
33:BL:78:ILE:HG22	33:BL:136:VAL:HG11	1.94	0.49
34:BM:122:VAL:O	34:BM:123:TYR:CD1	2.65	0.49
34:BM:25:ARG:CA	34:BM:28:THR:HG23	2.42	0.49
34:BM:96:GLU:HG2	34:BM:97:ARG:HD3	1.94	0.49
35:BN:64:ARG:NE	35:BN:67:LYS:C	2.66	0.49
37:BP:45:GLN:C	37:BP:47:ILE:N	2.65	0.49
37:BP:56:ARG:C	37:BP:56:ARG:HD2	2.33	0.49
38:BQ:98:LEU:N	38:BQ:114:VAL:HG22	2.27	0.49
38:BQ:28:LEU:HD21	38:BQ:115:GLU:HA	1.94	0.49
38:BQ:63:ARG:NH1	38:BQ:80:PHE:CG	2.81	0.49
39:BR:57:LYS:HD2	39:BR:65:VAL:HA	1.95	0.49
39:BR:78:LEU:C	39:BR:78:LEU:CD2	2.76	0.49
40:BS:64:ARG:HH11	40:BS:64:ARG:N	2.08	0.49
45:BX:32:PRO:HB2	45:BX:34:LYS:CD	2.43	0.49
45:BX:37:VAL:HG13	45:BX:39:VAL:CG2	2.42	0.49
24:BA:336:C:H4'	45:BX:67:LEU:HD21	1.93	0.49
46:BY:48:PHE:O	46:BY:53:ILE:HG22	2.12	0.49
46:BY:60:GLU:HG3	46:BY:69:THR:HG22	1.95	0.49
26:BC:120:MET:HE1	26:BC:138:PRO:CB	2.34	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:BC:38:ASP:O	26:BC:39:GLU:O	2.29	0.49
30:BG:91:ARG:CG	30:BG:91:ARG:HH21	2.24	0.49
24:BA:1284:A:C2	24:BA:1285:G:N2	2.81	0.49
24:BA:2803:C:OP2	24:BA:2803:C:H6	1.95	0.49
1:AA:1108:G:C8	1:AA:1109:C:C5	3.01	0.49
1:AA:1109:C:O2'	1:AA:1110:A:H5'	2.13	0.49
1:AA:1274:G:H21	1:AA:1275:A:N6	2.11	0.49
1:AA:1285:A:C4'	1:AA:1286:A:C8	2.95	0.49
1:AA:1317:C:H2'	1:AA:1318:A:H5'	1.94	0.49
1:AA:1413:A:C2	1:AA:1414:U:N1	2.81	0.49
1:AA:1497:G:HO2'	1:AA:1518:A:H2	1.61	0.49
1:AA:186(B):C:H4'	22:AW:89:ARG:CZ	2.42	0.49
1:AA:309:G:H2'	1:AA:310:G:H8	1.76	0.49
1:AA:423:G:N2	1:AA:424:G:C5	2.80	0.49
1:AA:430:A:H4'	6:AG:7:PRO:HA	1.94	0.49
1:AA:430:A:P	6:AG:9:CYS:H	2.36	0.49
1:AA:51:A:C2	1:AA:116:A:H1'	2.47	0.49
1:AA:607:A:N1	18:AS:31:LYS:HG3	2.27	0.49
1:AA:707:C:H2'	1:AA:708:C:O5'	2.13	0.49
1:AA:78:G:C6	1:AA:79:G:C5	3.01	0.49
1:AA:812:C:O4'	1:AA:813:U:H5	1.95	0.49
1:AA:858:G:C8	1:AA:858:G:O5'	2.66	0.49
1:AA:859:A:C2'	1:AA:860:A:O4'	2.58	0.49
1:AA:872:A:O2'	1:AA:873:A:P	2.68	0.49
1:AA:888:G:H3'	1:AA:889:A:H8	1.78	0.49
1:AA:87:A:N7	1:AA:88:C:N3	2.60	0.49
4:AE:134:GLU:O	4:AE:138:LEU:CG	2.56	0.49
4:AE:208:ILE:HA	4:AE:211:ILE:CD1	2.42	0.49
5:AF:144:SER:O	5:AF:144:SER:OG	2.21	0.49
5:AF:71:ALA:HB2	5:AF:106:VAL:HG23	1.94	0.49
6:AG:128:VAL:HG21	6:AG:133:VAL:HG23	1.94	0.49
6:AG:127:THR:O	6:AG:146:ILE:CG2	2.58	0.49
6:AG:148:VAL:HG13	6:AG:152:SER:OG	2.13	0.49
6:AG:152:SER:O	6:AG:154:ASN:ND2	2.45	0.49
6:AG:178:VAL:O	6:AG:179:GLU:O	2.31	0.49
7:AH:43:LEU:CD2	7:AH:44:GLY:N	2.67	0.49
8:AI:57:GLN:NE2	8:AI:57:GLN:O	2.45	0.49
8:AI:78:GLU:O	8:AI:81:ILE:CB	2.57	0.49
9:AJ:47:CYS:O	9:AJ:51:GLN:HG2	2.12	0.49
10:AK:89:PRO:HA	10:AK:92:ARG:NE	2.28	0.49
11:AL:48:GLU:N	11:AL:49:PRO:CD	2.73	0.49
11:AL:85:LEU:HD12	11:AL:89:ASN:ND2	2.28	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AM:7:LYS:HZ2	12:AM:71:LEU:HD11	1.78	0.49
13:AN:18:ARG:HG2	13:AN:18:ARG:NH1	2.26	0.49
1:AA:684:A:O2'	13:AN:39:PRO:O	2.30	0.49
13:AN:45:GLY:O	13:AN:50:TYR:CB	2.60	0.49
14:AO:106:ASP:O	14:AO:107:ALA:C	2.51	0.49
14:AO:82:VAL:HB	14:AO:106:ASP:OD2	2.13	0.49
15:AP:13:LYS:CB	15:AP:17:VAL:HG11	2.39	0.49
15:AP:90:LEU:HD21	15:AP:93:ARG:HH11	1.76	0.49
15:AP:96:LEU:O	15:AP:98:VAL:HG23	2.12	0.49
16:AQ:26:ARG:HB3	16:AQ:43:CYS:CB	2.43	0.49
18:AS:21:VAL:HG22	18:AS:36:ILE:HD13	1.95	0.49
20:AU:74:ARG:NH1	20:AU:81:PHE:HB3	2.27	0.49
22:AW:45:GLN:NE2	22:AW:91:LEU:HB3	2.28	0.49
48:B1:30:LEU:HD11	48:B1:48:LEU:HD23	1.94	0.49
48:B1:51:GLN:O	48:B1:54:ARG:HG3	2.12	0.49
49:B2:12:PRO:O	49:B2:13:ILE:O	2.30	0.49
49:B2:5:LYS:HE2	49:B2:57:GLU:HB2	1.94	0.49
52:B5:8:LYS:O	52:B5:9:LEU:HD22	2.13	0.49
24:BA:688:U:P	53:B6:2:LYS:HE2	2.52	0.49
54:B7:16:ILE:HG22	54:B7:21:LYS:O	2.13	0.49
24:BA:1008:C:H6	24:BA:1008:C:OP1	1.95	0.49
24:BA:1071:G:O4'	24:BA:1089:G:C5	2.65	0.49
24:BA:1095:A:N7	24:BA:1097:U:O4	2.45	0.49
24:BA:1142(A):A:C2	24:BA:1143:A:O4'	2.66	0.49
24:BA:1183:G:C1'	24:BA:1184:G:C8	2.93	0.49
24:BA:1250:G:O2'	24:BA:1251:C:OP2	2.30	0.49
24:BA:1288:U:C2	24:BA:1327:C:O2	2.66	0.49
24:BA:1299:G:O4'	24:BA:1301:A:C2	2.65	0.49
24:BA:1469:A:H8	24:BA:1469:A:H3'	1.76	0.49
24:BA:149:A:C8	24:BA:150:C:O4'	2.66	0.49
24:BA:1544:C:O2'	24:BA:1545:A:C4'	2.61	0.49
24:BA:1661:G:C6	24:BA:1662:C:C4	3.01	0.49
24:BA:1687:G:H1'	24:BA:1702:G:N2	2.26	0.49
24:BA:1789:A:O4'	27:BD:222:ARG:CZ	2.61	0.49
24:BA:1814:G:C2'	24:BA:1815:A:C8	2.90	0.49
24:BA:1816:G:O3'	24:BA:1817:G:H8	1.96	0.49
24:BA:1821:A:N6	24:BA:1822:G:O6	2.46	0.49
24:BA:1903:G:C4	24:BA:1904:G:C8	3.01	0.49
24:BA:1919:A:H3'	24:BA:1919:A:P	2.53	0.49
24:BA:1906:G:N9	24:BA:1929:G:C8	2.80	0.49
24:BA:1937:A:N7	24:BA:1939:U:C4	2.81	0.49
24:BA:2051:A:H3'	24:BA:2578:G:C5'	2.43	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2053:G:N1	24:BA:2054:A:C5	2.80	0.49
24:BA:2227:A:C5	24:BA:2228:G:N7	2.80	0.49
24:BA:2296:U:O5'	24:BA:2296:U:C6	2.65	0.49
24:BA:2306:C:O2'	30:BG:153:ARG:NH1	2.45	0.49
24:BA:2347:C:H5	24:BA:2382:G:H1'	1.77	0.49
24:BA:411:G:O4'	24:BA:2407:G:OP2	2.31	0.49
24:BA:2440:C:H2'	24:BA:2441:C:O5'	2.13	0.49
24:BA:2472:G:C3'	24:BA:2475:C:H42	2.25	0.49
24:BA:2497:A:H3'	24:BA:2497:A:C8	2.48	0.49
24:BA:2453:A:C2	24:BA:2499:C:N4	2.80	0.49
24:BA:2527:C:O2'	24:BA:2528:U:C5'	2.61	0.49
24:BA:2600:A:C2	24:BA:2601:C:C5	3.01	0.49
24:BA:2618:G:H2'	24:BA:2619:C:H6	1.77	0.49
24:BA:2654:A:C4'	24:BA:2656:U:C5	2.91	0.49
24:BA:2699:C:H2'	24:BA:2700:C:H5'	1.95	0.49
24:BA:2705:A:HO2'	24:BA:2706:G:P	2.35	0.49
24:BA:2766:G:C2	24:BA:2767:C:C6	3.00	0.49
24:BA:2773:C:OP1	28:BE:164:ARG:NH2	2.46	0.49
24:BA:2828:C:H2'	24:BA:2829:C:H6	1.78	0.49
24:BA:297:C:C4	24:BA:298:G:C2	3.00	0.49
24:BA:361:G:H2'	24:BA:362:U:H6	1.78	0.49
24:BA:37:C:H5'	24:BA:451:C:H5''	1.95	0.49
24:BA:386:G:O2'	24:BA:387:U:OP2	2.31	0.49
24:BA:540:G:C5	24:BA:541:C:C5	3.00	0.49
24:BA:573:G:C2'	24:BA:574:C:C5'	2.91	0.49
24:BA:600:G:H21	24:BA:604:G:H4'	1.77	0.49
24:BA:629:G:N2	24:BA:635:C:C2	2.81	0.49
24:BA:632:A:C2	24:BA:633:A:C4	3.00	0.49
24:BA:64:A:C2	24:BA:65:C:H1'	2.47	0.49
24:BA:704:G:C2	24:BA:725:G:N2	2.80	0.49
24:BA:715:G:C2'	24:BA:716:A:O5'	2.61	0.49
24:BA:749:C:H4'	24:BA:1271:G:N3	2.28	0.49
24:BA:832:G:OP1	36:BO:36:LYS:CE	2.61	0.49
24:BA:956:G:OP1	37:BP:87:LYS:HG3	2.13	0.49
25:BB:75:G:O6	25:BB:76:G:N2	2.46	0.49
25:BB:97:G:H2'	25:BB:98:G:C5'	2.33	0.49
27:BD:124:PRO:HG2	27:BD:126:GLN:HG2	1.94	0.49
27:BD:172:TYR:CD2	27:BD:186:HIS:N	2.80	0.49
24:BA:1775:U:C4	27:BD:208:LYS:HD2	2.47	0.49
28:BE:148:GLY:O	28:BE:149:ARG:HB3	2.12	0.49
24:BA:2680:C:H4'	28:BE:188:VAL:HB	1.95	0.49
28:BE:195:LEU:C	28:BE:195:LEU:HD13	2.30	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:BE:196:VAL:HG13	28:BE:197:ILE:H	1.77	0.49
28:BE:203:LYS:CD	28:BE:203:LYS:O	2.58	0.49
28:BE:53:PRO:HD2	28:BE:74:PRO:C	2.33	0.49
24:BA:2787:C:H1'	28:BE:61:ARG:CZ	2.43	0.49
28:BE:66:HIS:CG	28:BE:67:PHE:N	2.80	0.49
29:BF:47:GLY:O	29:BF:95:ARG:O	2.30	0.49
30:BG:53:LEU:HD21	30:BG:72:ARG:N	2.28	0.49
31:BH:58:GLU:HG2	31:BH:59:ARG:N	2.27	0.49
31:BH:69:ARG:CG	31:BH:69:ARG:NH2	2.74	0.49
31:BH:74:ASN:CG	31:BH:75:ALA:N	2.66	0.49
34:BM:69:GLN:HE21	34:BM:69:GLN:H	1.60	0.49
34:BM:70:LYS:HD3	34:BM:86:PRO:HA	1.94	0.49
34:BM:99:LEU:HD12	34:BM:100:GLU:HA	1.95	0.49
35:BN:12:ASP:O	35:BN:94:ARG:NH2	2.46	0.49
35:BN:8:LEU:CD2	35:BN:81:ASP:O	2.60	0.49
38:BQ:20:LEU:HD11	38:BQ:24:GLN:CD	2.31	0.49
39:BR:89:ARG:NE	39:BR:90:GLY:O	2.44	0.49
40:BS:53:ARG:NH2	40:BS:102:ILE:N	2.57	0.49
42:BU:15:GLU:CD	42:BU:16:PRO:CD	2.79	0.49
43:BV:78:GLU:OE2	43:BV:101:SER:N	2.46	0.49
45:BX:81:LYS:CE	45:BX:96:ILE:HG12	2.42	0.49
46:BY:107:THR:OG1	46:BY:141:VAL:O	2.29	0.49
46:BY:18:LEU:HB3	46:BY:23:LYS:C	2.32	0.49
46:BY:95:PRO:HD2	46:BY:131:ARG:N	2.28	0.49
47:BZ:40:GLN:HG2	47:BZ:45:PHE:CD1	2.48	0.49
24:BA:2157:G:H4'	24:BA:2158:A:OP1	2.13	0.49
26:BC:177:LYS:HB2	26:BC:180:PHE:CG	2.47	0.49
15:AP:58:GLU:O	15:AP:61:GLU:CB	2.61	0.49
3:AD:26:A:C2	3:AD:27:G:C8	3.00	0.49
9:AJ:136:LYS:HB3	9:AJ:136:LYS:HE3	1.55	0.49
2:A1:34:U:H6	2:A1:34:U:OP2	1.96	0.49
1:AA:1054:C:C5	3:AB:34:G:H4'	2.48	0.49
1:AA:1197:G:P	1:AA:1197:G:H3'	2.49	0.49
1:AA:1260:C:O5'	1:AA:1284:C:H4'	2.12	0.49
1:AA:1336:C:H4'	1:AA:1337:G:N1	2.28	0.49
1:AA:945:G:C2	1:AA:1337:G:C4	3.00	0.49
1:AA:1340:A:H2'	1:AA:1341:U:C6	2.47	0.49
1:AA:134:A:N1	1:AA:135:C:C4	2.80	0.49
1:AA:1353:G:C2	1:AA:1370:G:C2	3.01	0.49
1:AA:1371:G:OP2	11:AL:11:LYS:HE3	2.13	0.49
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.48	0.49
1:AA:262:A:C5	1:AA:263:A:N6	2.81	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:250:A:C2	1:AA:274:A:N1	2.81	0.49
1:AA:453:A:N6	1:AA:480:U:C2	2.73	0.49
1:AA:519:C:N4	1:AA:520:A:N3	2.59	0.49
1:AA:631:G:O2'	1:AA:632:A:C8	2.60	0.49
1:AA:643:C:C2	1:AA:644:G:C8	3.01	0.49
1:AA:781:A:O4'	1:AA:1523:G:H1'	2.11	0.49
1:AA:978:A:N6	1:AA:1318:A:N6	2.60	0.49
3:AB:34:G:C6	3:AB:35:A:C8	3.00	0.49
4:AE:91:PRO:CG	4:AE:155:LEU:HD23	2.42	0.49
4:AE:192:SER:C	4:AE:194:PRO:CD	2.80	0.49
1:AA:843:U:H3	4:AE:37:ASN:HA	1.77	0.49
4:AE:71:VAL:HG22	4:AE:93:VAL:N	2.28	0.49
5:AF:132:ARG:C	5:AF:136:GLN:HE21	2.15	0.49
5:AF:17:ASP:O	5:AF:18:TRP:C	2.51	0.49
5:AF:55:VAL:HG12	5:AF:57:ILE:HG13	1.95	0.49
5:AF:55:VAL:CG2	5:AF:68:VAL:HG13	2.39	0.49
5:AF:6:HIS:O	5:AF:8:ILE:N	2.45	0.49
6:AG:128:VAL:HG23	6:AG:133:VAL:H	1.78	0.49
6:AG:152:SER:OG	6:AG:158:ILE:HD12	2.12	0.49
6:AG:64:LEU:HD12	6:AG:75:PHE:CZ	2.47	0.49
6:AG:8:VAL:C	6:AG:10:ARG:H	2.15	0.49
9:AJ:106:GLN:O	9:AJ:109:ASN:N	2.45	0.49
9:AJ:123:GLU:O	9:AJ:124:LEU:C	2.50	0.49
9:AJ:15:ASP:N	9:AJ:20:ASP:H	2.09	0.49
9:AJ:2:ALA:CB	9:AJ:5:ARG:O	2.60	0.49
9:AJ:76:ARG:NH1	9:AJ:89:MET:CG	2.72	0.49
10:AK:96:GLY:O	10:AK:97:VAL:C	2.51	0.49
11:AL:113:LYS:HZ1	11:AL:119:ALA:HB1	1.77	0.49
11:AL:78:LYS:HD3	11:AL:79:LEU:CD2	2.41	0.49
12:AM:54:PHE:CE1	12:AM:55:LYS:HB3	2.48	0.49
13:AN:46:GLY:HA3	13:AN:55:LYS:HD2	1.91	0.49
13:AN:63:LEU:C	13:AN:63:LEU:CD2	2.81	0.49
13:AN:84:VAL:O	13:AN:85:ARG:HD3	2.13	0.49
15:AP:81:LEU:HD11	15:AP:88:ARG:NH2	2.20	0.49
16:AQ:34:TYR:CE1	16:AQ:39:LEU:O	2.65	0.49
17:AR:63:ARG:HH12	17:AR:87:ILE:HD13	1.76	0.49
19:AT:20:THR:O	19:AT:21:VAL:HG13	2.13	0.49
21:AV:18:LYS:HE2	21:AV:22:LEU:CB	2.43	0.49
1:AA:1311:G:N7	21:AV:2:PRO:HA	2.27	0.49
21:AV:31:ILE:O	21:AV:33:THR:N	2.46	0.49
21:AV:64:GLU:CG	21:AV:65:ASN:N	2.73	0.49
22:AW:29:LYS:O	22:AW:30:LYS:C	2.50	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:851:U:C5'	49:B2:49:LYS:HD2	2.38	0.49
49:B2:52:HIS:CG	49:B2:53:LEU:H	2.30	0.49
49:B2:8:LEU:C	49:B2:8:LEU:HD13	2.32	0.49
50:B3:57:GLU:O	50:B3:60:GLN:HG3	2.12	0.49
53:B6:19:ARG:CB	53:B6:23:ARG:NH2	2.73	0.49
54:B7:8:LYS:HA	54:B7:11:LYS:CD	2.40	0.49
24:BA:1044:G:C8	24:BA:1048:A:H1'	2.48	0.49
24:BA:1061:U:H4'	24:BA:1070:A:O4'	2.13	0.49
24:BA:1304:C:C4	24:BA:1305:C:C5	3.01	0.49
24:BA:1331:A:O2'	24:BA:1332:G:H8	1.95	0.49
24:BA:1364:G:C5	24:BA:1366:A:OP1	2.65	0.49
24:BA:1342:A:C4	24:BA:1397:U:H1'	2.48	0.49
24:BA:1420:U:O2'	24:BA:1421:G:C5'	2.60	0.49
24:BA:1479:G:N2	24:BA:1515:C:N3	2.61	0.49
24:BA:1595:G:N2	24:BA:1596:A:H1'	2.27	0.49
24:BA:14:A:C8	24:BA:15:G:O4'	2.66	0.49
24:BA:1857:G:H2'	24:BA:1858:G:C4	2.48	0.49
24:BA:1857:G:C5	24:BA:1858:G:O6	2.66	0.49
24:BA:1864:U:O2'	24:BA:1869:G:H5'	2.12	0.49
24:BA:1893:C:C2'	24:BA:1894:C:H5'	2.43	0.49
24:BA:1769:G:N1	24:BA:1984:G:C5	2.80	0.49
24:BA:2019:A:C6	24:BA:2020:A:C4	3.01	0.49
24:BA:2078:C:H4'	24:BA:2433:A:O2'	2.12	0.49
24:BA:2080:G:C6	24:BA:2241:A:C6	3.00	0.49
24:BA:2264:C:C5	24:BA:2265:U:C5	3.00	0.49
24:BA:2304:G:N2	30:BG:156:ASP:OD1	2.46	0.49
24:BA:2415:G:C2	24:BA:2416:C:C2	3.00	0.49
24:BA:2418:A:C2	24:BA:2419:U:C2	3.00	0.49
24:BA:2469:A:C2	24:BA:2482:G:H1'	2.48	0.49
24:BA:2509:G:H2'	24:BA:2510:C:O4'	2.13	0.49
24:BA:2525:G:C2	24:BA:2539:C:N4	2.80	0.49
24:BA:2623:G:N2	24:BA:2624:G:C4	2.81	0.49
24:BA:2679:A:O2'	28:BE:189:PRO:HA	2.13	0.49
24:BA:2754:U:H2'	24:BA:2755:C:C5'	2.35	0.49
24:BA:280:C:O3'	24:BA:281:G:C3'	2.34	0.49
24:BA:2811:G:N1	24:BA:2891:G:C2	2.80	0.49
24:BA:2858:C:H3'	24:BA:2859:G:C8	2.47	0.49
24:BA:2901:C:C2	24:BA:2902:C:C5	3.00	0.49
24:BA:400:G:C3'	24:BA:400:G:C8	2.95	0.49
24:BA:227:A:N6	24:BA:410:G:H1'	2.27	0.49
24:BA:503:A:C5	24:BA:505:A:N7	2.81	0.49
24:BA:820:A:C2	24:BA:943:U:C2'	2.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:874:G:C2	24:BA:904:C:C4	3.01	0.49
24:BA:880:G:H2'	24:BA:881:G:C4'	2.43	0.49
24:BA:980:A:N1	24:BA:1135:C:H4'	2.28	0.49
25:BB:12:C:C5'	47:BZ:74:ARG:CG	2.86	0.49
27:BD:21:PHE:O	27:BD:205:VAL:CG2	2.56	0.49
27:BD:23:GLU:HB3	27:BD:204:ILE:CG1	2.43	0.49
27:BD:82:ILE:CG2	27:BD:83:GLU:N	2.76	0.49
28:BE:103:ASP:C	28:BE:104:VAL:CG2	2.81	0.49
28:BE:158:GLY:O	28:BE:160:TYR:CD1	2.51	0.49
28:BE:169:ASN:HD22	28:BE:170:LEU:N	2.04	0.49
28:BE:67:PHE:O	28:BE:68:ALA:C	2.51	0.49
28:BE:50:GLY:CA	28:BE:76:ARG:HE	2.24	0.49
28:BE:92:THR:N	28:BE:95:ILE:HD13	2.20	0.49
29:BF:65:TRP:HE1	29:BF:73:ALA:CB	2.17	0.49
31:BH:125:VAL:N	31:BH:126:PRO:CD	2.76	0.49
31:BH:136:ILE:H	31:BH:141:VAL:HG21	1.78	0.49
31:BH:23:ARG:NE	31:BH:34:GLU:HB3	2.27	0.49
32:BK:2:LYS:CE	32:BK:39:ALA:HB2	2.43	0.49
34:BM:127:ASP:O	34:BM:128:HIS:C	2.50	0.49
35:BN:37:ASP:HB2	35:BN:61:VAL:HG21	1.94	0.49
35:BN:99:PHE:CA	35:BN:122:LEU:O	2.61	0.49
37:BP:34:LEU:CD2	37:BP:118:LEU:HD22	2.42	0.49
37:BP:45:GLN:C	37:BP:48:GLU:HG2	2.32	0.49
37:BP:67:ARG:HH21	37:BP:103:MET:C	2.15	0.49
24:BA:2496:C:OP1	37:BP:83:MET:HE1	2.13	0.49
38:BQ:105:ARG:CA	38:BQ:105:ARG:NH1	2.76	0.49
38:BQ:5:LYS:C	38:BQ:5:LYS:NZ	2.65	0.49
39:BR:32:LEU:O	39:BR:34:HIS:N	2.45	0.49
39:BR:76:LYS:HD3	39:BR:77:ALA:H	1.77	0.49
40:BS:57:PHE:O	40:BS:58:ASN:CB	2.59	0.49
40:BS:64:ARG:HH12	40:BS:78:LEU:H	1.60	0.49
41:BT:105:VAL:HG13	41:BT:106:PHE:N	2.27	0.49
42:BU:2:PHE:O	42:BU:43:GLU:OE1	2.30	0.49
43:BV:21:VAL:HG22	43:BV:75:TYR:CD2	2.47	0.49
43:BV:33:ARG:NH1	43:BV:48:ALA:HB2	2.21	0.49
45:BX:75:ILE:HD12	45:BX:75:ILE:O	2.12	0.49
46:BY:6:LYS:CB	46:BY:37:VAL:HG13	2.42	0.49
32:BK:128:LEU:HD22	32:BK:129:THR:H	1.74	0.49
24:BA:2146:C:N3	24:BA:2147:G:C1'	2.75	0.49
26:BC:77:ILE:HB	26:BC:115:ALA:CB	2.42	0.49
26:BC:49:ILE:HG23	26:BC:208:PHE:CE1	2.47	0.49
26:BC:22:ILE:HD13	26:BC:189:ILE:HG22	1.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:183:C:H1'	24:BA:433:C:C1'	2.27	0.49
1:AA:160:A:H1'	1:AA:344:A:H62	1.77	0.49
2:A1:21:G:H2'	2:A1:22:C:O4'	2.12	0.49
26:BC:155:GLU:OE1	26:BC:155:GLU:HA	2.13	0.49
26:BC:34:THR:CG2	26:BC:34:THR:O	2.59	0.49
24:BA:1284:A:C5	24:BA:1285:G:N1	2.80	0.49
2:A1:31:U:H6	2:A1:31:U:O5'	1.96	0.49
2:A1:40:U:H2'	2:A1:41:U:C6	2.47	0.49
1:AA:1062:U:C2	1:AA:1063:C:N4	2.80	0.49
1:AA:1100:C:O2	1:AA:1102:A:C5'	2.56	0.49
1:AA:1186:G:H21	16:AQ:61:TRP:C	2.13	0.49
1:AA:132:C:C2	1:AA:133:U:C5	3.00	0.49
1:AA:1346:A:C8	1:AA:1348:U:N3	2.81	0.49
1:AA:1441:G:N2	1:AA:1459:C:C5	2.81	0.49
1:AA:1477:C:O5'	1:AA:1477:C:H6	1.95	0.49
1:AA:1478:C:O2'	1:AA:1479:C:H5'	2.12	0.49
1:AA:194:C:O2'	1:AA:195:A:H4'	2.13	0.49
1:AA:228:A:O2'	1:AA:229:U:H5'	2.12	0.49
1:AA:367:U:O2'	1:AA:368:U:H4'	2.12	0.49
1:AA:41:G:C4	1:AA:42:G:N7	2.81	0.49
1:AA:447:G:N2	1:AA:486:U:C5	2.81	0.49
1:AA:28:G:C6	1:AA:556:C:N4	2.81	0.49
1:AA:609:A:H2'	1:AA:610:G:O4'	2.13	0.49
1:AA:908:A:C2	1:AA:909:A:C5	3.01	0.49
3:AB:14:A:C8	3:AB:22:G:N2	2.81	0.49
3:AB:44:G:H2'	3:AB:45:U:H5'	1.95	0.49
3:AB:58:A:C4'	3:AB:59:U:OP1	2.60	0.49
3:AC:72:C:N4	3:AC:73:A:N6	2.61	0.49
4:AE:60:ASP:O	4:AE:64:ARG:HD2	2.12	0.49
4:AE:77:ALA:HA	4:AE:208:ILE:CD1	2.33	0.49
5:AF:187:ALA:CB	5:AF:198:VAL:HG22	2.42	0.49
5:AF:28:GLN:HA	5:AF:30:ARG:NH1	2.27	0.49
5:AF:84:ILE:CD1	5:AF:101:LEU:HD22	2.42	0.49
6:AG:188:LEU:C	6:AG:189:PRO:O	2.46	0.49
6:AG:191:ARG:CD	6:AG:191:ARG:C	2.81	0.49
7:AH:34:VAL:CG2	7:AH:62:ALA:CB	2.91	0.49
7:AH:79:GLU:CG	7:AH:93:PRO:CD	2.89	0.49
8:AI:28:ARG:N	8:AI:28:ARG:HD3	2.27	0.49
8:AI:86:ARG:O	8:AI:87:ARG:HG2	2.12	0.49
9:AJ:43:PHE:CD2	9:AJ:44:TYR:CE2	2.99	0.49
9:AJ:75:VAL:HG11	9:AJ:86:GLN:HB3	1.95	0.49
10:AK:122:ARG:HD3	10:AK:122:ARG:H	1.76	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AK:33:GLU:OE2	10:AK:50:ARG:HD2	2.12	0.49
11:AL:112:LYS:HG3	11:AL:117:HIS:CA	2.41	0.49
1:AA:1368:G:OP1	11:AL:113:LYS:HA	2.13	0.49
11:AL:27:THR:HB	11:AL:62:TYR:HD1	1.76	0.49
11:AL:4:TYR:CE1	11:AL:59:PHE:HE2	2.14	0.49
11:AL:79:LEU:O	11:AL:82:ALA:HB3	2.12	0.49
12:AM:12:ASP:HB3	12:AM:15:THR:CG2	2.43	0.49
12:AM:48:THR:HG23	12:AM:61:GLU:C	2.33	0.49
12:AM:6:ILE:CG1	12:AM:73:ASP:H	2.26	0.49
13:AN:57:THR:C	13:AN:59:TYR:N	2.60	0.49
1:AA:1187:G:O2'	16:AQ:61:TRP:OXT	2.22	0.49
17:AR:35:ARG:NH2	17:AR:59:MET:HE3	2.28	0.49
18:AS:39:TYR:C	18:AS:39:TYR:CD1	2.85	0.49
18:AS:3:LYS:HA	18:AS:4:ILE:HD13	1.94	0.49
1:AA:277:C:P	19:AT:68:ARG:HH12	2.36	0.49
20:AU:39:VAL:O	20:AU:43:PHE:HE1	1.95	0.49
21:AV:19:VAL:CG1	21:AV:20:LEU:N	2.75	0.49
21:AV:81:ARG:HH11	21:AV:81:ARG:HB2	1.78	0.49
48:B1:28:MET:O	48:B1:31:ARG:N	2.46	0.49
48:B1:36:ILE:CG1	48:B1:37:GLY:N	2.69	0.49
50:B3:65:ASP:O	50:B3:68:ARG:NH1	2.45	0.49
24:BA:1263:U:C5'	51:B4:10:LYS:NZ	2.70	0.49
24:BA:2399:G:N3	52:B5:21:TYR:CE1	2.80	0.49
24:BA:459:U:OP2	53:B6:40:TRP:CD2	2.66	0.49
24:BA:1000:A:C2	24:BA:1155:A:N3	2.81	0.49
24:BA:1011:G:C6	24:BA:1151:G:C6	3.01	0.49
24:BA:1296:G:C4	24:BA:1297:C:C5	3.01	0.49
24:BA:1314:C:O5'	24:BA:1314:C:H6	1.96	0.49
24:BA:1349:A:H5'	24:BA:1350:C:C5'	2.42	0.49
24:BA:1353:A:O2'	24:BA:1354:A:O4'	2.30	0.49
24:BA:1356:G:N2	24:BA:1357:U:H1'	2.27	0.49
24:BA:1543:A:H8	24:BA:1544:C:HO2'	1.57	0.49
24:BA:1560:G:H2'	24:BA:1561:G:C8	2.48	0.49
24:BA:1567:A:C2'	24:BA:1567:A:N3	2.74	0.49
24:BA:1637:A:H4'	24:BA:2711:A:HO2'	1.73	0.49
24:BA:1729:A:H5''	24:BA:1730:U:C5	2.47	0.49
24:BA:1742:C:C6	24:BA:1742:C:OP2	2.65	0.49
24:BA:1747:G:C2	24:BA:1748:G:C8	3.01	0.49
24:BA:1801:G:H8	24:BA:1801:G:OP1	1.96	0.49
24:BA:1858:G:C6	24:BA:1883:G:C6	3.00	0.49
24:BA:1903:G:C4	24:BA:1904:G:N7	2.81	0.49
24:BA:1993:U:C3'	24:BA:1993:U:H6	2.24	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2357:U:H6	24:BA:2357:U:P	2.36	0.49
24:BA:2426:A:C3'	24:BA:2427:C:H5'	2.42	0.49
24:BA:245:G:C6	24:BA:246:C:N4	2.80	0.49
24:BA:2468:G:H4'	37:BP:120:ILE:CD1	2.40	0.49
24:BA:2496:C:C2	24:BA:2497:A:H2	2.30	0.49
24:BA:2520:C:C2	24:BA:2521:C:C5	3.01	0.49
24:BA:2573:C:H3'	24:BA:2573:C:C6	2.48	0.49
24:BA:2588:G:C5	24:BA:2589:A:N7	2.80	0.49
24:BA:270(P):C:O2'	24:BA:270(Q):C:H5'	2.12	0.49
24:BA:2632:A:C6	24:BA:2787:C:N4	2.81	0.49
24:BA:2787:C:H2'	24:BA:2788:C:C5	2.48	0.49
24:BA:2810:A:C2'	24:BA:2811:G:H5'	2.43	0.49
24:BA:2835:A:N6	24:BA:2879:C:OP2	2.45	0.49
24:BA:2847:U:H5'	24:BA:2848:G:OP2	2.13	0.49
24:BA:493:G:C2	24:BA:494:G:N9	2.81	0.49
24:BA:28:A:C1'	24:BA:513:A:C6	2.95	0.49
24:BA:604:G:O2'	24:BA:605:C:O5'	2.31	0.49
24:BA:660:G:H2'	24:BA:661:C:H6	1.76	0.49
24:BA:680:G:C4	24:BA:798:G:N2	2.81	0.49
24:BA:750:A:H2'	43:BV:90:ARG:NH1	2.26	0.49
24:BA:774:A:C5'	24:BA:778:G:C4'	2.90	0.49
24:BA:906:G:N1	24:BA:907:U:C4	2.81	0.49
24:BA:961:C:N4	24:BA:2031:A:C4	2.81	0.49
24:BA:993:G:C6	24:BA:994:C:N4	2.81	0.49
25:BB:99:A:H2'	25:BB:100:G:C5'	2.43	0.49
27:BD:144:ALA:HB3	27:BD:192:THR:HB	1.95	0.49
28:BE:176:ILE:HD13	28:BE:176:ILE:C	2.32	0.49
28:BE:55:ASN:HA	28:BE:58:ARG:HH22	1.78	0.49
28:BE:81:ILE:CG2	28:BE:82:ARG:HG2	2.40	0.49
29:BF:11:VAL:HB	29:BF:17:ARG:HH12	1.77	0.49
29:BF:136:THR:O	29:BF:139:PHE:HB3	2.13	0.49
31:BH:104:GLU:C	31:BH:105:LEU:HG	2.33	0.49
31:BH:159:GLU:HG2	31:BH:163:TYR:OH	2.11	0.49
33:BL:105:LEU:HD22	33:BL:124:ALA:HB2	1.93	0.49
33:BL:127:ILE:O	33:BL:131:ALA:CB	2.60	0.49
34:BM:95:PRO:HG2	34:BM:124:ALA:HB2	1.94	0.49
34:BM:98:VAL:O	34:BM:99:LEU:C	2.50	0.49
35:BN:39:ILE:HG12	35:BN:59:LYS:HZ2	1.67	0.49
35:BN:64:ARG:CZ	35:BN:67:LYS:N	2.76	0.49
35:BN:96:THR:CG2	35:BN:97:ARG:N	2.54	0.49
35:BN:9:GLU:HA	35:BN:9:GLU:OE1	2.13	0.49
37:BP:80:GLU:O	37:BP:81:VAL:O	2.31	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:42:ILE:C	37:BP:94:VAL:HG21	2.33	0.49
39:BR:24:LEU:HD11	39:BR:41:ASP:CB	2.43	0.49
41:BT:41:ALA:O	41:BT:42:ALA:C	2.51	0.49
42:BU:65:GLY:N	42:BU:97:LYS:HZ1	2.09	0.49
42:BU:23:GLU:HA	42:BU:93:GLU:CB	2.42	0.49
43:BV:10:VAL:HB	43:BV:12:ILE:CD1	2.42	0.49
43:BV:25:ARG:O	43:BV:27:LYS:N	2.46	0.49
24:BA:1340:U:C6	44:BW:57:LEU:HD11	2.48	0.49
45:BX:26:LYS:HD2	45:BX:27:VAL:HB	1.94	0.49
46:BY:37:VAL:C	46:BY:38:TYR:HD2	2.16	0.49
32:BK:72:LEU:C	32:BK:140:LEU:HD21	2.32	0.49
32:BK:94:ALA:CA	32:BK:97:ILE:HG13	2.36	0.49
24:BA:2168:G:N9	24:BA:2170:A:OP2	2.46	0.49
26:BC:47:LEU:CD2	26:BC:47:LEU:H	2.24	0.49
24:BA:1583:A:HO2'	24:BA:1585:C:H6	1.58	0.49
24:BA:1583:A:OP2	24:BA:1586:A:O3'	2.30	0.49
24:BA:2186:G:C2	24:BA:2187:G:C5	3.01	0.49
24:BA:164:U:C2'	24:BA:164:U:O2	2.60	0.49
1:AA:109:A:O4'	1:AA:109:A:N3	2.46	0.49
1:AA:1239:A:N3	1:AA:1239:A:C2'	2.74	0.49
1:AA:1301:U:C4	1:AA:1303:C:C6	3.00	0.49
1:AA:132:C:HO2'	1:AA:133:U:H6	1.59	0.49
1:AA:1338:G:C2	1:AA:1339:A:C5	3.01	0.49
1:AA:1419:G:C2'	1:AA:1420:C:C6	2.95	0.49
1:AA:1429:C:H2'	1:AA:1430:C:H6	1.78	0.49
1:AA:1416:G:N2	1:AA:1485:U:H1'	2.27	0.49
1:AA:1539:C:O5'	1:AA:1539:C:H6	1.96	0.49
1:AA:138:G:C2	1:AA:226:G:C4	3.01	0.49
1:AA:270:A:O2'	1:AA:271:C:C5'	2.56	0.49
1:AA:113:G:C4'	1:AA:354:G:H5''	2.43	0.49
1:AA:408:A:C5'	6:AG:116:GLN:HE21	2.25	0.49
1:AA:423:G:N2	1:AA:424:G:C4	2.80	0.49
1:AA:432:A:C8	1:AA:433:C:C6	3.01	0.49
1:AA:527:G:H2'	1:AA:528:C:H6	1.78	0.49
1:AA:59:A:H4'	1:AA:388:G:O5'	2.13	0.49
1:AA:649:G:H2'	1:AA:650:G:C8	2.44	0.49
1:AA:744:C:H2'	1:AA:745:C:C6	2.48	0.49
1:AA:907:A:C4	1:AA:908:A:C8	3.00	0.49
1:AA:924:C:C2'	1:AA:925:G:O5'	2.61	0.49
3:AC:23:A:C6	3:AC:24:G:C6	3.01	0.49
4:AE:167:PRO:HG2	4:AE:168:THR:N	2.24	0.49
5:AF:14:ILE:HG13	5:AF:178:LEU:CD1	2.43	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:179:ARG:CD	5:AF:206:GLU:OE1	2.61	0.49
6:AG:144:ASP:HA	6:AG:184:LYS:HZ3	1.77	0.49
6:AG:200:GLU:OE2	6:AG:201:GLN:NE2	2.45	0.49
6:AG:98:GLU:OE2	6:AG:107:ARG:HG3	2.12	0.49
7:AH:149:GLU:O	7:AH:150:ARG:C	2.51	0.49
7:AH:56:GLN:N	7:AH:56:GLN:HE21	2.10	0.49
8:AI:68:PRO:O	8:AI:69:GLU:C	2.51	0.49
9:AJ:49:ILE:CG2	9:AJ:121:ALA:HB1	2.33	0.49
9:AJ:65:ALA:CB	9:AJ:124:LEU:HD23	2.43	0.49
9:AJ:72:ARG:O	9:AJ:91:VAL:N	2.43	0.49
10:AK:14:ARG:NH1	10:AK:14:ARG:CB	2.56	0.49
10:AK:68:ARG:CD	10:AK:69:ARG:N	2.73	0.49
11:AL:85:LEU:HD11	11:AL:92:TYR:HE1	1.77	0.49
12:AM:49:VAL:C	12:AM:60:ARG:HB3	2.32	0.49
13:AN:51:LYS:HD3	13:AN:52:GLY:N	2.24	0.49
13:AN:80:VAL:H	13:AN:104:GLN:HE21	1.58	0.49
14:AO:59:ARG:HE	14:AO:65:GLU:CG	2.26	0.49
16:AQ:23:ARG:HA	16:AQ:30:ALA:HA	1.93	0.49
18:AS:55:ARG:O	18:AS:56:ALA:C	2.51	0.49
19:AT:68:ARG:N	19:AT:70:ARG:NH2	2.46	0.49
8:AI:98:LEU:CG	20:AU:28:GLU:HG3	2.41	0.49
1:AA:736:C:C5'	20:AU:72:ARG:NH2	2.68	0.49
48:B1:20:VAL:HG23	48:B1:52:ILE:CG2	2.30	0.49
49:B2:35:ARG:NH1	49:B2:47:VAL:CG2	2.74	0.49
50:B3:17:GLY:O	50:B3:18:CYS:HB3	2.13	0.49
50:B3:59:PHE:CA	50:B3:62:ARG:CZ	2.90	0.49
51:B4:34:PRO:HG3	51:B4:40:LYS:HZ1	1.78	0.49
53:B6:5:TRP:CE3	53:B6:5:TRP:C	2.86	0.49
24:BA:119:A:C4'	24:BA:120:U:H5'	2.42	0.49
24:BA:1238:G:C2	24:BA:1239:G:N9	2.81	0.49
24:BA:1267:U:H3'	24:BA:1267:U:C6	2.48	0.49
24:BA:1281:G:C4	24:BA:1282:U:C5	3.01	0.49
24:BA:1493:C:C2'	24:BA:1493:C:O2	2.53	0.49
24:BA:1500:G:O2'	24:BA:1501:C:H5'	2.12	0.49
24:BA:1568:G:N3	24:BA:1568:G:O4'	2.46	0.49
24:BA:163:U:O5'	24:BA:163:U:H6	1.95	0.49
24:BA:1710:C:O5'	24:BA:1710:C:H6	1.95	0.49
24:BA:1788:C:C6	24:BA:1788:C:H3'	2.47	0.49
24:BA:1949:G:C2'	24:BA:1950:G:O4'	2.61	0.49
24:BA:196:A:N1	24:BA:828:U:C5'	2.61	0.49
24:BA:1269:A:N6	24:BA:2011:U:H3	2.06	0.49
24:BA:2024:G:C4	24:BA:2025:C:C6	3.01	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2096:U:C2	24:BA:2097:C:C5	3.01	0.49
24:BA:2219:G:C2'	24:BA:2224:G:O5'	2.61	0.49
24:BA:2235:G:N2	24:BA:2236:C:C2	2.81	0.49
24:BA:2238:G:O2'	24:BA:2239:G:O4'	2.31	0.49
24:BA:2302:G:N2	24:BA:2303:G:H1'	2.28	0.49
24:BA:2349:G:C4	24:BA:2369:A:C2	3.01	0.49
24:BA:2377:A:N3	24:BA:2378:A:C8	2.81	0.49
24:BA:2385:C:O2'	24:BA:2386:C:O5'	2.28	0.49
24:BA:2415:G:C2	24:BA:2416:C:C4	3.01	0.49
24:BA:2259:G:O4'	24:BA:2427:C:C5	2.66	0.49
24:BA:249:C:C5	24:BA:2395:C:OP1	2.66	0.49
24:BA:24:G:C4	24:BA:25:U:C5	3.01	0.49
3:AB:75:C:C2	24:BA:2508:G:H5'	2.46	0.49
24:BA:2509:G:C2	24:BA:2510:C:H1'	2.48	0.49
24:BA:2640:G:H2'	24:BA:2641:G:H8	1.77	0.49
24:BA:2731:G:N2	24:BA:2732:G:N2	2.60	0.49
24:BA:2752:C:N3	24:BA:2753:A:C8	2.81	0.49
24:BA:572:A:N6	24:BA:2029:G:H1'	2.27	0.49
24:BA:673:C:H2'	24:BA:674:G:O5'	2.12	0.49
24:BA:696:G:C2	24:BA:697:C:C6	3.01	0.49
24:BA:715:G:C4	24:BA:716:A:C6	3.01	0.49
24:BA:734:A:C2	24:BA:735:A:N9	2.80	0.49
24:BA:776:G:N3	24:BA:793:A:C6	2.81	0.49
24:BA:684:G:N2	24:BA:794:G:N2	2.60	0.49
24:BA:868:U:C4	24:BA:869:G:N7	2.80	0.49
24:BA:881:G:N2	24:BA:897:C:C4	2.81	0.49
24:BA:917:A:C3'	24:BA:918:A:C5'	2.79	0.49
25:BB:32:C:C2	25:BB:33:G:C8	3.01	0.49
25:BB:65:C:C5	25:BB:108:C:C5	3.01	0.49
27:BD:116:GLN:O	27:BD:117:VAL:HG23	2.13	0.49
27:BD:27:THR:CG2	27:BD:29:PRO:HD2	2.36	0.49
27:BD:85:ASP:HB2	27:BD:87:ASN:ND2	2.23	0.49
28:BE:54:GLN:CG	28:BE:57:LYS:HG3	2.43	0.49
29:BF:33:LEU:HD23	29:BF:112:MET:SD	2.52	0.49
29:BF:80:ALA:HB1	29:BF:81:PRO:HD2	1.95	0.49
30:BG:103:LEU:HD12	30:BG:103:LEU:O	2.13	0.49
30:BG:136:ARG:O	30:BG:153:ARG:HG2	2.12	0.49
30:BG:26:GLN:CD	30:BG:29:TRP:HE3	2.16	0.49
31:BH:63:SER:O	31:BH:67:LEU:HD23	2.12	0.49
33:BL:24:GLY:CA	33:BL:34:ILE:HG12	2.37	0.49
34:BM:89:LYS:HE3	34:BM:89:LYS:N	2.22	0.49
24:BA:662:G:C5'	36:BO:17:LYS:H	2.22	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:12:GLN:NE2	37:BP:13:GLN:NE2	2.41	0.49
38:BQ:100:LEU:HD12	38:BQ:101:ALA:H	1.76	0.49
38:BQ:85:PRO:O	38:BQ:86:ARG:C	2.50	0.49
39:BR:103:GLU:HA	39:BR:106:ARG:HB2	1.94	0.49
39:BR:73:LEU:N	39:BR:73:LEU:CD1	2.74	0.49
28:BE:9:VAL:CG1	40:BS:3:ARG:HG2	2.41	0.49
41:BT:5:LYS:O	41:BT:7:GLY:N	2.46	0.49
43:BV:23:LEU:HD21	51:B4:25:LEU:O	2.13	0.49
43:BV:5:ALA:O	43:BV:105:VAL:CG1	2.61	0.49
24:BA:24:G:O2'	43:BV:77:ASP:OD1	2.27	0.49
43:BV:98:LYS:HE2	43:BV:99:ARG:C	2.32	0.49
44:BW:36:LYS:NZ	44:BW:36:LYS:HB2	2.28	0.49
44:BW:60:ARG:CD	44:BW:62:LYS:NZ	2.72	0.49
45:BX:52:SER:O	45:BX:53:PRO:C	2.48	0.49
46:BY:10:ARG:HD3	46:BY:36:LYS:CG	2.42	0.49
25:BB:78:A:H5'	46:BY:78:LYS:HE3	1.95	0.49
47:BZ:54:GLY:C	47:BZ:56:ASP:N	2.66	0.49
24:BA:2134:A:H5''	24:BA:2134:A:N3	2.27	0.49
24:BA:2160:G:C2	24:BA:2161:C:C2	3.01	0.49
24:BA:2169:A:N3	24:BA:2169:A:H2'	2.28	0.49
26:BC:62:VAL:CB	26:BC:195:ALA:CB	2.78	0.49
26:BC:171:ILE:HD13	26:BC:196:LEU:HD11	1.95	0.49
26:BC:21:THR:N	26:BC:24:GLU:OE1	2.45	0.49
26:BC:89:ALA:O	26:BC:157:LYS:HE2	2.12	0.49
1:AA:1034:G:N3	1:AA:1035:A:N7	2.61	0.49
1:AA:1053:G:C2	1:AA:1199:U:C4	3.01	0.49
1:AA:1118:C:H1'	1:AA:1179:A:C8	2.48	0.49
1:AA:1330:U:OP1	15:AP:25:ILE:N	2.37	0.49
1:AA:1354:C:H2'	1:AA:1355:G:C8	2.48	0.49
1:AA:1413:A:N1	1:AA:1487:G:N2	2.41	0.49
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.47	0.49
1:AA:1469:G:N2	1:AA:1470:G:C4	2.81	0.49
1:AA:1488:G:C6	1:AA:1489:G:N7	2.81	0.49
1:AA:293:G:OP2	1:AA:293:G:C8	2.66	0.49
1:AA:392:G:H5'	18:AS:12:LYS:HZ2	1.78	0.49
1:AA:404:U:OP1	6:AG:118:ARG:CZ	2.61	0.49
1:AA:498:A:C4'	1:AA:500:G:H5'	2.39	0.49
1:AA:521:G:N2	1:AA:522:C:C2	2.81	0.49
1:AA:537:G:H5''	14:AO:113:ARG:NH1	2.28	0.49
1:AA:545:C:O2'	1:AA:546:G:C5'	2.55	0.49
1:AA:547:A:H4'	1:AA:548:G:O5'	2.10	0.49
1:AA:748:C:O2'	1:AA:749:C:C5'	2.61	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:769:G:O2'	1:AA:770:C:C5'	2.61	0.49
1:AA:925:G:H1'	1:AA:1502:A:H1'	1.95	0.49
1:AA:949:A:H2'	1:AA:950:U:C5	2.48	0.49
1:AA:972:C:O2	1:AA:972:C:H2'	2.12	0.49
1:AA:983:A:C2'	1:AA:983:A:N3	2.76	0.49
1:AA:986:A:H4'	21:AV:55:LYS:HE3	1.94	0.49
4:AE:168:THR:CB	4:AE:192:SER:HA	2.43	0.49
5:AF:88:ARG:HG3	5:AF:99:VAL:O	2.13	0.49
6:AG:133:VAL:HG11	6:AG:135:LEU:HD12	1.95	0.49
6:AG:205:GLU:CD	7:AH:100:VAL:H	2.16	0.49
7:AH:74:GLY:O	7:AH:75:THR:CB	2.61	0.49
9:AJ:70:LYS:O	9:AJ:138:LYS:CE	2.61	0.49
1:AA:598:U:C4'	10:AK:94:TYR:HD2	2.17	0.49
1:AA:675:A:N3	13:AN:116:HIS:CB	2.76	0.49
13:AN:120:ARG:HE	13:AN:126:ARG:HH21	1.60	0.49
13:AN:18:ARG:N	13:AN:18:ARG:HD3	2.28	0.49
13:AN:31:THR:HG22	13:AN:32:ILE:N	2.27	0.49
13:AN:94:ALA:O	13:AN:98:LEU:HG	2.13	0.49
14:AO:24:VAL:HG12	14:AO:24:VAL:O	2.12	0.49
14:AO:60:LEU:HD21	14:AO:64:TYR:HD2	1.76	0.49
15:AP:10:PRO:HG3	15:AP:18:ALA:HA	1.93	0.49
17:AR:42:HIS:CD2	17:AR:43:LEU:N	2.81	0.49
18:AS:8:ARG:O	18:AS:9:PHE:HD2	1.95	0.49
19:AT:75:ARG:HH12	19:AT:77:VAL:HA	1.77	0.49
49:B2:23:LEU:HA	49:B2:28:LEU:HD11	1.95	0.49
49:B2:6:VAL:HG12	49:B2:56:VAL:HA	1.93	0.49
50:B3:56:VAL:CG1	50:B3:61:ARG:HG2	2.43	0.49
54:B7:22:VAL:HG13	54:B7:23:VAL:H	1.78	0.49
24:BA:83:G:C6	24:BA:102:G:N3	2.81	0.49
24:BA:1123:C:C2	24:BA:1124:C:C5	3.01	0.49
24:BA:1143:A:O2'	24:BA:1144:G:C5'	2.61	0.49
24:BA:1147:C:H2'	24:BA:1148:A:C5'	2.42	0.49
24:BA:1212:G:H3'	24:BA:1212:G:H8	1.77	0.49
24:BA:1240:U:C2'	24:BA:1240:U:O2	2.61	0.49
24:BA:1343:G:H1'	24:BA:1597:A:N1	2.28	0.49
24:BA:1356:G:C2'	24:BA:1357:U:H5'	2.42	0.49
24:BA:1390:U:H6	24:BA:1390:U:O5'	1.96	0.49
24:BA:1401:G:H8	24:BA:1401:G:O5'	1.95	0.49
24:BA:1542:G:O2'	24:BA:1543:A:C4	2.62	0.49
24:BA:1689:A:H2'	24:BA:1690:A:H8	1.77	0.49
24:BA:1727:U:HO2'	24:BA:1728:G:P	2.35	0.49
24:BA:1807:G:H21	24:BA:1809:A:C4'	2.25	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1882:C:C4	24:BA:1883:G:H1'	2.48	0.49
24:BA:1915:U:H2'	24:BA:1915:U:O2	2.13	0.49
24:BA:20:C:HO2'	24:BA:21:A:C5'	2.26	0.49
24:BA:2213:U:C3'	24:BA:2213:U:C2	2.96	0.49
24:BA:2218:G:O3'	27:BD:186:HIS:NE2	2.46	0.49
24:BA:2225:A:C5'	24:BA:2226:C:O4'	2.52	0.49
24:BA:2723:C:C4'	38:BQ:2:ARG:O	2.58	0.49
24:BA:2753:A:C2'	24:BA:2754:U:O5'	2.61	0.49
24:BA:2828:C:H2'	24:BA:2829:C:C6	2.48	0.49
24:BA:2801:A:C2	24:BA:2895:U:H1'	2.41	0.49
24:BA:289:A:C4	24:BA:351:G:C6	3.01	0.49
24:BA:28:A:N3	24:BA:29:U:O4'	2.46	0.49
24:BA:348:G:N3	24:BA:349:G:N7	2.61	0.49
24:BA:478:A:N6	24:BA:480:A:N1	2.61	0.49
24:BA:583:G:C2'	24:BA:584:C:O5'	2.61	0.49
24:BA:625:G:O6	36:BO:100:LEU:O	2.31	0.49
24:BA:692:C:H2'	24:BA:693:C:O5'	2.13	0.49
24:BA:700:G:C6	24:BA:701:G:N7	2.81	0.49
24:BA:730:C:H2'	24:BA:731:C:H6	1.73	0.49
24:BA:746:A:O2'	24:BA:747:U:OP1	2.31	0.49
25:BB:86:G:C2	25:BB:91:C:C2	3.00	0.49
27:BD:131:LEU:HA	27:BD:190:TYR:CE2	2.47	0.49
24:BA:1790:C:O3'	27:BD:213:ARG:HD3	2.13	0.49
27:BD:24:ILE:CG2	27:BD:25:THR:N	2.76	0.49
27:BD:7:LYS:HG3	27:BD:26:LYS:C	2.32	0.49
27:BD:53:PHE:C	27:BD:54:ARG:O	2.50	0.49
27:BD:5:LYS:CD	27:BD:31:LYS:HZ2	2.26	0.49
27:BD:79:VAL:HG12	27:BD:81:ALA:CA	2.43	0.49
28:BE:136:ARG:NH1	28:BE:137:HIS:HA	2.28	0.49
28:BE:150:VAL:HG12	28:BE:150:VAL:O	2.13	0.49
28:BE:98:PRO:HA	28:BE:172:VAL:HG21	1.95	0.49
28:BE:37:ARG:CB	28:BE:40:GLU:HB2	2.43	0.49
28:BE:49:LEU:HD11	28:BE:51:PHE:HD1	1.78	0.49
29:BF:202:PHE:CD2	29:BF:205:ARG:HD2	2.48	0.49
29:BF:31:HIS:ND1	36:BO:14:LYS:CE	2.75	0.49
33:BL:11:GLN:C	33:BL:12:LEU:HG	2.33	0.49
34:BM:2:LYS:N	41:BT:61:TRP:CH2	2.80	0.49
34:BM:78:TYR:O	34:BM:80:GLY:N	2.46	0.49
35:BN:7:TYR:CA	35:BN:18:LYS:CE	2.85	0.49
36:BO:107:LYS:O	36:BO:107:LYS:HG3	2.13	0.49
36:BO:114:ILE:CD1	36:BO:129:ALA:O	2.44	0.49
36:BO:6:LEU:O	36:BO:7:ARG:HG3	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:16:ARG:NH1	37:BP:72:LYS:HG2	2.27	0.49
38:BQ:102:GLU:HG3	38:BQ:103:ARG:H	1.75	0.49
38:BQ:14:SER:HA	38:BQ:17:ARG:CG	2.41	0.49
38:BQ:56:LYS:C	38:BQ:58:GLY:N	2.66	0.49
39:BR:57:LYS:HZ2	39:BR:65:VAL:N	2.11	0.49
39:BR:49:VAL:HB	39:BR:80:LEU:HD12	1.95	0.49
40:BS:104:ASN:O	40:BS:105:LEU:O	2.31	0.49
24:BA:1251:C:C5'	41:BT:10:ARG:HE	2.26	0.49
41:BT:52:ARG:HB2	41:BT:55:ARG:HD3	1.94	0.49
43:BV:76:VAL:HG22	43:BV:102:HIS:O	2.13	0.49
44:BW:61:GLY:N	44:BW:73:ARG:NH1	2.61	0.49
45:BX:35:TYR:HE2	45:BX:67:LEU:HD13	1.78	0.49
46:BY:171:ILE:HG23	46:BY:172:ALA:N	2.28	0.49
24:BA:2331:G:H4'	47:BZ:42:GLY:CA	2.43	0.49
32:BK:113:ARG:HA	32:BK:131:LYS:NZ	2.28	0.49
24:BA:2113:U:N3	24:BA:2169:A:N6	2.60	0.49
24:BA:2118:U:H5	24:BA:2147:G:N7	2.10	0.49
26:BC:91:ALA:CB	26:BC:153:ILE:HG21	2.35	0.49
26:BC:27:HIS:NE2	26:BC:182:PRO:HG3	2.27	0.49
24:BA:2103:C:C2	24:BA:2104:G:C8	3.01	0.49
1:AA:1081:G:H2'	1:AA:1082:G:C8	2.48	0.48
1:AA:1085:U:O2	1:AA:1094:G:C6	2.66	0.48
1:AA:1177:G:O5'	1:AA:1177:G:H8	1.96	0.48
1:AA:946:A:N6	1:AA:1236:A:C6	2.80	0.48
1:AA:1300:G:O2'	1:AA:1301:U:H6	1.95	0.48
1:AA:1347:G:HO2'	1:AA:1348:U:P	2.35	0.48
1:AA:1370:G:H5''	11:AL:12:GLU:CG	2.43	0.48
1:AA:1369:C:H2'	1:AA:1370:G:O4'	2.13	0.48
1:AA:1387:G:C4	1:AA:1388:C:C5	3.01	0.48
1:AA:1454:G:C4	1:AA:1455:G:N7	2.80	0.48
1:AA:1499:A:H2'	1:AA:1500:A:H5'	1.95	0.48
1:AA:1512:U:O2'	1:AA:1513:A:H5'	2.13	0.48
1:AA:66:G:C4'	1:AA:173:U:O4	2.59	0.48
1:AA:279:A:H5''	1:AA:280:C:H3'	1.93	0.48
1:AA:295:C:C4	1:AA:303:A:C2	3.01	0.48
1:AA:451:A:O2'	1:AA:452:A:C8	2.65	0.48
1:AA:505:G:N1	1:AA:535:A:C2	2.81	0.48
1:AA:672:U:O2	1:AA:673:G:N7	2.45	0.48
1:AA:69:G:H2'	1:AA:69:G:N3	2.28	0.48
1:AA:874:G:N2	1:AA:875:C:C2	2.80	0.48
1:AA:972:C:OP2	12:AM:57:LYS:HD2	2.13	0.48
3:AB:29:G:C4	3:AB:30:G:C8	3.01	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:57:G:OP1	30:BG:81:LYS:HD2	2.13	0.48
4:AE:115:LEU:HD23	4:AE:149:LEU:CD2	2.35	0.48
4:AE:207:ALA:C	4:AE:209:ARG:N	2.67	0.48
4:AE:234:PRO:O	4:AE:238:LEU:HD22	2.12	0.48
4:AE:28:PHE:CE1	4:AE:31:TYR:HB2	2.48	0.48
4:AE:55:PHE:CD2	4:AE:58:ILE:HD12	2.48	0.48
4:AE:76:GLN:O	4:AE:211:ILE:HD11	2.12	0.48
5:AF:16:ARG:O	5:AF:17:ASP:OD1	2.31	0.48
5:AF:190:ARG:O	5:AF:191:THR:C	2.51	0.48
7:AH:105:VAL:O	7:AH:106:PRO:C	2.51	0.48
7:AH:82:VAL:HG11	7:AH:134:ALA:O	2.12	0.48
7:AH:71:LEU:HD23	7:AH:72:GLN:N	2.28	0.48
7:AH:80:ILE:HG22	10:AK:104:ARG:HH22	1.78	0.48
8:AI:14:LEU:HD11	8:AI:19:LEU:CA	2.43	0.48
8:AI:47:ARG:C	8:AI:48:LEU:HD23	2.31	0.48
9:AJ:115:ARG:O	9:AJ:118:VAL:CB	2.60	0.48
9:AJ:47:CYS:HA	9:AJ:50:ILE:HG13	1.93	0.48
9:AJ:71:PRO:C	9:AJ:96:GLN:HE21	2.16	0.48
9:AJ:99:LEU:O	9:AJ:99:LEU:CD2	2.61	0.48
10:AK:124:ALA:O	10:AK:125:ARG:C	2.51	0.48
10:AK:89:PRO:HA	10:AK:92:ARG:HE	1.78	0.48
12:AM:49:VAL:O	12:AM:60:ARG:HA	2.13	0.48
13:AN:23:ALA:CB	13:AN:88:GLY:CA	2.91	0.48
13:AN:22:HIS:HD2	13:AN:23:ALA:N	2.11	0.48
15:AP:14:ARG:HG3	15:AP:16:ASP:OD2	2.12	0.48
15:AP:29:ARG:NH1	15:AP:66:LEU:HD22	2.28	0.48
15:AP:77:ASN:OD1	15:AP:78:ILE:HG13	2.13	0.48
5:AF:12:LEU:HD11	16:AQ:57:ARG:HG3	1.94	0.48
17:AR:36:ILE:O	17:AR:40:SER:OG	2.20	0.48
18:AS:53:VAL:HG23	18:AS:54:GLU:H	1.78	0.48
22:AW:85:MET:CA	22:AW:88:VAL:HG23	2.39	0.48
50:B3:65:ASP:O	50:B3:66:SER:C	2.49	0.48
53:B6:34:ARG:NH2	53:B6:42:LEU:HD23	2.28	0.48
55:B8:9:ARG:O	55:B8:10:ILE:HG13	2.12	0.48
24:BA:1011:G:O2'	24:BA:1013:C:C4'	2.60	0.48
24:BA:1067:A:OP2	24:BA:1068:G:OP2	2.31	0.48
24:BA:1132:A:H2'	24:BA:1133:U:O2	2.12	0.48
24:BA:1197:G:C6	24:BA:1198:U:C5	3.01	0.48
24:BA:1202:C:C2'	24:BA:1203:G:H4'	2.37	0.48
24:BA:1310:G:N7	24:BA:1311:G:C2	2.81	0.48
24:BA:1368:G:O6	50:B3:2:LYS:NZ	2.45	0.48
24:BA:149:A:C8	24:BA:150:C:N1	2.81	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1620:G:C2	24:BA:1621:U:C2	3.01	0.48
24:BA:1754:C:C2	24:BA:1755:A:C8	3.00	0.48
24:BA:1775:U:C1'	27:BD:208:LYS:NZ	2.76	0.48
24:BA:1806:C:C2	24:BA:1807:G:H8	2.31	0.48
24:BA:1812:A:C5	24:BA:1813:G:C8	3.01	0.48
24:BA:1853:A:H2'	24:BA:1854:A:O4'	2.13	0.48
24:BA:1889:A:C2	24:BA:2234:G:H1'	2.47	0.48
24:BA:2080:G:C2'	24:BA:2081:C:O5'	2.60	0.48
24:BA:2081:C:C2	24:BA:2082:A:H8	2.29	0.48
24:BA:2094:G:C5	24:BA:2095:C:C4	3.01	0.48
24:BA:2257:U:OP1	47:BZ:11:ARG:NH2	2.45	0.48
24:BA:2259:G:C5	24:BA:2260:C:C5	3.01	0.48
24:BA:2305:A:H3'	24:BA:2306:C:C5'	2.43	0.48
24:BA:2377:A:C2	24:BA:2378:A:C8	3.01	0.48
24:BA:411:G:C2	24:BA:2407:G:C5	3.01	0.48
24:BA:410:G:O3'	24:BA:2407:G:OP2	2.29	0.48
24:BA:2420:C:H5''	54:B7:35:GLN:NE2	2.25	0.48
24:BA:2562:U:H2'	24:BA:2563:U:H5'	1.94	0.48
24:BA:2593:U:OP2	24:BA:2593:U:C6	2.63	0.48
24:BA:2600:A:O2'	24:BA:2601:C:H5'	2.13	0.48
24:BA:2638:G:O2'	24:BA:2639:A:C8	2.65	0.48
24:BA:2645:G:H8	24:BA:2645:G:H5''	1.78	0.48
24:BA:527:C:N4	24:BA:2780:G:OP1	2.42	0.48
24:BA:2791:C:N4	24:BA:2807:G:N7	2.61	0.48
24:BA:2818:G:H4'	24:BA:2837:G:C4'	2.43	0.48
24:BA:2850:A:C2'	24:BA:2851:A:O5'	2.61	0.48
24:BA:2866:U:O2	24:BA:2868:A:C1'	2.60	0.48
24:BA:323:G:H2'	29:BF:170:LEU:CG	2.43	0.48
24:BA:332:A:C8	24:BA:335:C:C4	3.01	0.48
24:BA:348:G:C2	24:BA:349:G:N7	2.81	0.48
24:BA:352:G:C2	24:BA:353:G:H1'	2.48	0.48
24:BA:483:A:H2'	24:BA:484:C:H5'	1.95	0.48
24:BA:556:G:P	24:BA:556:G:H8	2.35	0.48
24:BA:566:U:H3'	24:BA:567:A:H8	1.77	0.48
24:BA:588:U:C4	24:BA:589:C:N4	2.81	0.48
24:BA:591:C:C2	24:BA:592:G:C8	3.01	0.48
24:BA:697:C:O2'	24:BA:698:C:O4'	2.25	0.48
24:BA:780:G:H2'	24:BA:782:A:C5	2.47	0.48
24:BA:193:U:H4'	24:BA:803:U:H5'	1.95	0.48
24:BA:820:A:C2	24:BA:943:U:O2'	2.62	0.48
24:BA:833:U:H1'	36:BO:48:PRO:HB2	1.95	0.48
24:BA:92:G:O2'	24:BA:93:C:H5'	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:942:G:C6	24:BA:943:U:C4	3.01	0.48
24:BA:973:A:H1'	24:BA:1188:U:C4	2.45	0.48
25:BB:103:U:C3'	25:BB:104:A:H5'	2.42	0.48
25:BB:2:C:H2'	25:BB:3:C:O5'	2.13	0.48
25:BB:77:U:C6	25:BB:77:U:C3'	2.95	0.48
27:BD:77:ALA:O	27:BD:116:GLN:HA	2.13	0.48
27:BD:133:LEU:HG	27:BD:187:GLY:O	2.12	0.48
24:BA:1775:U:O4'	27:BD:208:LYS:NZ	2.45	0.48
27:BD:176:ARG:HH12	27:BD:270:ILE:HD12	1.78	0.48
24:BA:1824:G:OP1	27:BD:53:PHE:CZ	2.66	0.48
27:BD:63:ARG:CG	27:BD:65:ILE:HG12	2.43	0.48
24:BA:2680:C:H5''	28:BE:188:VAL:O	2.13	0.48
28:BE:40:GLU:OE2	28:BE:41:LYS:HE2	2.13	0.48
28:BE:91:VAL:HG22	28:BE:92:THR:N	2.28	0.48
28:BE:93:VAL:O	28:BE:94:GLU:HG2	2.13	0.48
29:BF:163:VAL:HG11	29:BF:195:ASP:OD2	2.13	0.48
30:BG:179:PRO:O	30:BG:181:ARG:NH2	2.45	0.48
30:BG:72:ARG:HA	30:BG:88:ILE:HD11	1.95	0.48
30:BG:8:LYS:O	30:BG:9:ARG:C	2.51	0.48
31:BH:11:VAL:HG13	31:BH:15:VAL:HG11	1.95	0.48
34:BM:9:VAL:O	34:BM:11:PRO:HD3	2.13	0.48
35:BN:78:ARG:H	35:BN:78:ARG:HD2	1.78	0.48
24:BA:1667:G:OP1	35:BN:7:TYR:CD1	2.66	0.48
35:BN:97:ARG:C	35:BN:97:ARG:CD	2.80	0.48
36:BO:72:PRO:HB3	36:BO:110:TYR:O	2.13	0.48
37:BP:51:ARG:HD3	37:BP:52:VAL:CG2	2.43	0.48
40:BS:99:LEU:O	40:BS:102:ILE:HG23	2.13	0.48
40:BS:51:ARG:HH12	40:BS:114:LEU:CD1	2.26	0.48
24:BA:515:A:H5''	41:BT:32:PHE:HZ	1.72	0.48
42:BU:40:LEU:HG	42:BU:55:ALA:H	1.68	0.48
42:BU:52:VAL:O	42:BU:55:ALA:N	2.46	0.48
42:BU:5:VAL:N	42:BU:12:TYR:CD2	2.65	0.48
44:BW:47:PHE:HE2	44:BW:89:ILE:CA	2.08	0.48
45:BX:96:ILE:HB	45:BX:102:CYS:O	2.13	0.48
45:BX:97:ARG:CZ	45:BX:101:LYS:CG	2.90	0.48
32:BK:77:LEU:CD1	32:BK:142:VAL:HG22	2.43	0.48
3:AD:56:C:N1	24:BA:2169:A:H1'	2.28	0.48
26:BC:161:ILE:CG1	26:BC:161:ILE:O	2.61	0.48
26:BC:21:THR:CG2	26:BC:225:ASN:HD22	2.26	0.48
48:B1:2:ARG:HA	48:B1:5:LEU:CD1	2.28	0.48
24:BA:1578:U:O2'	24:BA:1579:A:H5'	2.13	0.48
33:BL:45:THR:CG2	33:BL:53:VAL:HG11	2.41	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BR:59:LYS:N	39:BR:59:LYS:HD3	2.26	0.48
24:BA:1563:G:C6	24:BA:1564:C:N4	2.81	0.48
1:AA:30:U:O2'	1:AA:31:G:P	2.71	0.48
2:A1:34:U:C3'	2:A1:34:U:C6	2.96	0.48
1:AA:1025:U:OP1	1:AA:1025:U:H4'	2.13	0.48
1:AA:1104:G:H2'	1:AA:1105:A:O4'	2.13	0.48
1:AA:115:G:O2'	1:AA:116:A:N7	2.47	0.48
1:AA:1227:A:H4'	15:AP:115:LYS:HZ1	1.78	0.48
1:AA:124:G:N2	1:AA:238:G:H1'	2.28	0.48
1:AA:1300:G:C2'	1:AA:1301:U:OP2	2.61	0.48
1:AA:1342:C:H2'	1:AA:1343:G:C8	2.48	0.48
1:AA:1494:G:N3	1:AA:1495:U:C4	2.81	0.48
1:AA:1498:U:H2'	1:AA:1498:U:O2	2.13	0.48
1:AA:151:A:C5	1:AA:152:A:N3	2.80	0.48
1:AA:198:G:C2'	1:AA:199:G:O5'	2.61	0.48
1:AA:242:C:C2	1:AA:285:G:N2	2.81	0.48
1:AA:262:A:C2	1:AA:263:A:C6	3.01	0.48
1:AA:287:U:C2'	1:AA:288:A:H5'	2.42	0.48
1:AA:323:U:H3'	1:AA:323:U:C6	2.47	0.48
1:AA:424:G:C4	1:AA:425:G:C8	3.00	0.48
1:AA:445:G:H2'	1:AA:446:G:H8	1.77	0.48
1:AA:543:C:C2	1:AA:544:G:N7	2.81	0.48
1:AA:685:G:H2'	1:AA:686:U:H6	1.76	0.48
1:AA:68:G:H5'	1:AA:171:A:H1'	1.95	0.48
1:AA:784:C:H2'	1:AA:785:G:O4'	2.13	0.48
1:AA:874:G:N1	1:AA:875:C:C4	2.81	0.48
1:AA:937:A:C2	1:AA:1379:G:C6	3.00	0.48
1:AA:949:A:H4'	1:AA:1364:U:O4	2.13	0.48
1:AA:973:G:N2	1:AA:974:A:H62	2.07	0.48
4:AE:163:PHE:CZ	4:AE:186:ALA:C	2.86	0.48
4:AE:169:LYS:HE2	4:AE:170:GLU:HA	1.95	0.48
4:AE:102:LEU:CB	4:AE:176:GLU:OE1	2.52	0.48
4:AE:178:ARG:HE	4:AE:196:LEU:CD1	2.11	0.48
4:AE:181:PHE:HE1	10:AK:70:GLN:NE2	2.11	0.48
4:AE:207:ALA:O	4:AE:209:ARG:N	2.46	0.48
4:AE:59:GLU:CA	4:AE:221:LEU:HD21	2.43	0.48
4:AE:58:ILE:O	4:AE:59:GLU:C	2.51	0.48
4:AE:69:LEU:CD2	4:AE:91:PRO:CB	2.90	0.48
4:AE:82:ARG:CD	4:AE:92:TYR:OH	2.54	0.48
5:AF:11:ARG:HG3	5:AF:16:ARG:CZ	2.43	0.48
5:AF:10:PHE:CD1	5:AF:178:LEU:HD22	2.35	0.48
5:AF:25:GLY:N	5:AF:28:GLN:NE2	2.61	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:144:ASP:O	6:AG:184:LYS:HA	2.13	0.48
6:AG:193:ASP:O	6:AG:194:LEU:HD13	2.13	0.48
7:AH:37:ARG:O	7:AH:38:GLN:HG3	2.13	0.48
7:AH:77:PRO:HG2	7:AH:78:HIS:CD2	2.48	0.48
9:AJ:10:ARG:CB	9:AJ:10:ARG:NH1	2.76	0.48
9:AJ:15:ASP:CB	9:AJ:20:ASP:H	2.25	0.48
10:AK:102:ARG:NH1	10:AK:102:ARG:CB	2.76	0.48
10:AK:126:LYS:HZ1	10:AK:127:LEU:CB	2.27	0.48
10:AK:24:THR:HG23	10:AK:24:THR:O	2.12	0.48
11:AL:116:LYS:N	11:AL:116:LYS:HD3	2.27	0.48
11:AL:85:LEU:HD11	11:AL:92:TYR:CE1	2.48	0.48
12:AM:60:ARG:CA	12:AM:60:ARG:NH1	2.76	0.48
13:AN:42:TRP:CE3	13:AN:43:SER:N	2.81	0.48
13:AN:45:GLY:CA	13:AN:55:LYS:HB3	2.41	0.48
14:AO:47:LYS:H	14:AO:48:PRO:HD3	1.76	0.48
15:AP:15:VAL:CG1	15:AP:34:LEU:HD21	2.43	0.48
17:AR:66:LEU:N	17:AR:66:LEU:CD2	2.75	0.48
48:B1:32:PHE:HB2	48:B1:33:GLN:NE2	2.28	0.48
49:B2:6:VAL:HA	49:B2:55:ARG:O	2.12	0.48
51:B4:58:LEU:HD13	51:B4:59:GLU:N	2.29	0.48
52:B5:21:TYR:CD2	52:B5:21:TYR:O	2.66	0.48
53:B6:10:ARG:HG2	53:B6:14:LYS:HE3	1.95	0.48
24:BA:1011:G:H2'	24:BA:1013:C:H5''	1.95	0.48
24:BA:1011:G:H5'	24:BA:1012:U:OP2	2.13	0.48
24:BA:1050:A:C2'	24:BA:1051:G:C5'	2.91	0.48
24:BA:1057:A:H61	24:BA:1086:A:H2	1.58	0.48
24:BA:1148:A:N6	24:BA:1149:G:O6	2.46	0.48
24:BA:1161:C:O2'	24:BA:1162:G:H5'	2.14	0.48
24:BA:974:G:H1'	24:BA:1186:G:C5	2.48	0.48
24:BA:1189:A:C3'	24:BA:1190:G:H5'	2.43	0.48
24:BA:1314:C:H2'	24:BA:1315:C:H6	1.78	0.48
24:BA:1351:C:N4	24:BA:1381:G:C6	2.81	0.48
24:BA:1429:G:C3'	24:BA:1430:C:H6	2.23	0.48
24:BA:1537:C:C2'	24:BA:1538:G:H5'	2.41	0.48
24:BA:1540:G:C3'	24:BA:1541:U:H5'	2.41	0.48
24:BA:1542:G:C2'	24:BA:1543:A:C5	2.96	0.48
24:BA:1718:G:N2	24:BA:1742:C:C2	2.66	0.48
24:BA:1747:G:H2'	24:BA:1748:G:H8	1.77	0.48
24:BA:184:C:N3	24:BA:213:A:N6	2.62	0.48
24:BA:1903:G:N3	24:BA:1904:G:C8	2.81	0.48
24:BA:1997:G:N1	24:BA:1998:G:C5	2.81	0.48
24:BA:1853:A:C1'	24:BA:2234:G:H5'	2.44	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2270:G:H2'	24:BA:2271:G:O4'	2.13	0.48
24:BA:2307:G:N9	24:BA:2308:G:H1'	2.27	0.48
24:BA:2373:G:C5	24:BA:2374:C:N4	2.81	0.48
24:BA:2377:A:C2	24:BA:2378:A:N7	2.81	0.48
24:BA:2457:U:C2'	24:BA:2458:G:H5'	2.43	0.48
24:BA:250:G:C2'	24:BA:251:A:O5'	2.61	0.48
24:BA:2573:C:P	24:BA:2574:G:OP1	2.71	0.48
24:BA:2576:G:O2'	24:BA:2612:C:N4	2.46	0.48
24:BA:2631:G:C6	24:BA:2632:A:C8	3.01	0.48
24:BA:2740:A:C4	24:BA:2741:A:N7	2.82	0.48
24:BA:2625:G:N1	24:BA:2777:G:N2	2.61	0.48
24:BA:2831:G:OP2	28:BE:57:LYS:HD3	2.13	0.48
24:BA:2692:C:H1'	24:BA:2847:U:O2'	2.12	0.48
24:BA:2858:C:C5'	24:BA:2859:G:OP2	2.61	0.48
24:BA:285:C:H2'	24:BA:286:C:H6	1.78	0.48
24:BA:2893:G:H1'	24:BA:2894:G:H8	1.77	0.48
24:BA:2897:U:H2'	24:BA:2898:U:C6	2.48	0.48
24:BA:307:G:H21	24:BA:330:A:N6	2.12	0.48
24:BA:344:G:H3'	24:BA:344:G:C8	2.48	0.48
24:BA:350:U:H2'	24:BA:351:G:OP1	2.13	0.48
24:BA:401:A:C4	24:BA:402:A:C8	3.00	0.48
24:BA:403:U:H4'	24:BA:404:C:OP1	2.11	0.48
24:BA:415:A:C2	24:BA:416:C:H1'	2.47	0.48
24:BA:476:G:O4'	24:BA:505:A:C2	2.65	0.48
24:BA:621:A:H8	24:BA:622:G:H5'	1.76	0.48
24:BA:685:A:H5''	24:BA:686:G:H22	1.70	0.48
24:BA:71:A:C3'	24:BA:72:U:H5''	2.40	0.48
24:BA:743:G:N1	24:BA:755:C:C4	2.81	0.48
24:BA:684:G:N1	24:BA:775:G:C5	2.81	0.48
24:BA:908:C:C2'	24:BA:909:A:O5'	2.61	0.48
27:BD:117:VAL:C	27:BD:118:VAL:CG2	2.81	0.48
27:BD:16:MET:O	27:BD:17:THR:O	2.30	0.48
24:BA:764:A:N3	27:BD:214:TRP:CD1	2.81	0.48
27:BD:40:THR:HG21	27:BD:43:ARG:HE	1.76	0.48
27:BD:91:ARG:NH2	27:BD:198:ASN:CG	2.66	0.48
28:BE:108:SER:OG	28:BE:163:GLU:O	2.31	0.48
28:BE:60:ASN:O	28:BE:63:LEU:N	2.46	0.48
29:BF:104:LYS:O	29:BF:108:LYS:CE	2.57	0.48
29:BF:110:LEU:HG	29:BF:183:VAL:N	2.28	0.48
24:BA:675:A:C5'	29:BF:67:GLN:NE2	2.76	0.48
24:BA:588:U:O4'	29:BF:90:PHE:CD1	2.66	0.48
30:BG:135:LEU:HD13	30:BG:137:GLU:H	1.77	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:BG:4:ASP:HB3	30:BG:104:GLU:CG	2.43	0.48
30:BG:9:ARG:HH11	30:BG:9:ARG:CG	2.25	0.48
31:BH:13:LYS:HD2	31:BH:15:VAL:HA	1.95	0.48
33:BL:131:ALA:HB1	33:BL:136:VAL:HG12	1.94	0.48
34:BM:109:LYS:HA	34:BM:109:LYS:HZ2	1.78	0.48
34:BM:30:ILE:O	34:BM:31:ALA:O	2.31	0.48
35:BN:106:LEU:HD12	35:BN:107:ARG:CA	2.42	0.48
35:BN:81:ASP:C	35:BN:82:ASN:OD1	2.51	0.48
36:BO:123:LEU:HD12	36:BO:130:PHE:CZ	2.48	0.48
36:BO:55:ARG:NH2	36:BO:55:ARG:CB	2.68	0.48
36:BO:86:LYS:NZ	36:BO:91:PHE:CE2	2.82	0.48
37:BP:37:LEU:CD1	37:BP:130:LYS:HB2	2.37	0.48
37:BP:59:ARG:O	37:BP:60:ARG:HD2	2.12	0.48
37:BP:85:LYS:HE3	37:BP:88:GLY:HA3	1.95	0.48
24:BA:1277:G:HO2'	38:BQ:24:GLN:HG2	1.78	0.48
38:BQ:61:HIS:CE1	38:BQ:64:ARG:NH2	2.81	0.48
39:BR:30:ARG:HD2	39:BR:91:PRO:CB	2.43	0.48
25:BB:48:A:OP1	39:BR:92:TYR:CD2	2.66	0.48
40:BS:50:ILE:CG2	40:BS:68:TYR:HB2	2.44	0.48
40:BS:85:LYS:HG3	40:BS:88:ILE:HG12	1.95	0.48
41:BT:39:LEU:O	41:BT:42:ALA:N	2.46	0.48
42:BU:43:GLU:O	42:BU:44:LYS:CD	2.52	0.48
42:BU:88:ARG:CG	42:BU:89:GLN:N	2.76	0.48
44:BW:47:PHE:O	44:BW:48:LYS:O	2.31	0.48
24:BA:297:C:C5'	45:BX:83:THR:HG21	2.43	0.48
47:BZ:27:GLU:N	47:BZ:69:PHE:CZ	2.81	0.48
24:BA:2352:A:H2	47:BZ:33:ALA:O	1.96	0.48
24:BA:2254:C:O2	47:BZ:7:LEU:HD11	2.13	0.48
3:AD:50:U:C4	3:AD:65:G:N1	2.82	0.48
24:BA:2110:G:C5	24:BA:2120:G:C8	3.00	0.48
26:BC:162:GLU:CG	26:BC:163:PHE:N	2.67	0.48
26:BC:19:ILE:HG23	26:BC:223:ARG:HB3	1.95	0.48
26:BC:211:SER:HA	26:BC:223:ARG:HE	1.78	0.48
26:BC:52:ARG:HG3	26:BC:53:ARG:CG	2.42	0.48
18:AS:68:ASP:O	18:AS:69:THR:C	2.49	0.48
1:AA:1031:G:C6	1:AA:1032:A:C6	3.01	0.48
26:BC:194:ARG:NH1	26:BC:194:ARG:HG3	2.27	0.48
27:BD:38:LYS:HD2	27:BD:38:LYS:H	1.78	0.48
1:AA:1376:U:H2'	1:AA:1377:A:H8	1.75	0.48
1:AA:1437:C:O2'	1:AA:1438:G:H5'	2.14	0.48
1:AA:1492:A:O3'	1:AA:1493:A:O4'	2.30	0.48
1:AA:20:U:H5	1:AA:916:G:H1	1.61	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:264:U:O2	1:AA:265:G:O4'	2.31	0.48
1:AA:247:G:N2	1:AA:282:A:C2	2.77	0.48
1:AA:328:C:O2'	1:AA:329:A:OP2	2.31	0.48
1:AA:467:G:C2	1:AA:468:A:C5	3.01	0.48
1:AA:526:C:N4	1:AA:535:A:H2	2.07	0.48
1:AA:552:U:H4'	14:AO:87:GLY:O	2.13	0.48
1:AA:579:G:C4	1:AA:580:U:C5	3.01	0.48
1:AA:628:G:C2'	1:AA:629:G:H8	2.21	0.48
1:AA:654:G:H1	1:AA:754:C:N4	2.12	0.48
1:AA:690:G:H3'	1:AA:691:G:C8	2.48	0.48
1:AA:714:G:O2'	1:AA:777:A:N6	2.46	0.48
1:AA:818:G:N2	1:AA:820:U:C2	2.82	0.48
1:AA:843:U:H3'	1:AA:848:C:C4'	2.44	0.48
1:AA:872:A:N1	1:AA:874:G:C6	2.80	0.48
1:AA:572:A:C2	1:AA:916:G:N2	2.81	0.48
3:AC:36:A:C6	3:AC:37:A:N7	2.81	0.48
3:AD:4:C:N3	3:AD:70:G:N1	2.61	0.48
4:AE:124:SER:C	4:AE:126:GLU:N	2.67	0.48
4:AE:170:GLU:C	4:AE:174:VAL:HG23	2.34	0.48
4:AE:213:LEU:HD23	4:AE:217:ARG:HD3	1.95	0.48
5:AF:124:ILE:HG23	5:AF:130:VAL:CG2	2.43	0.48
5:AF:176:HIS:O	5:AF:178:LEU:N	2.46	0.48
5:AF:29:TYR:C	5:AF:29:TYR:HD2	2.15	0.48
6:AG:106:TYR:CE2	6:AG:113:SER:HA	2.48	0.48
6:AG:54:TYR:CE2	6:AG:58:LEU:HB2	2.47	0.48
7:AH:109:ILE:HD13	7:AH:135:THR:HG21	1.91	0.48
9:AJ:5:ARG:CB	9:AJ:5:ARG:HH11	2.26	0.48
10:AK:15:ASN:HD22	10:AK:15:ASN:H	1.61	0.48
10:AK:92:ARG:HG2	10:AK:92:ARG:NH1	2.24	0.48
11:AL:50:LEU:HD11	11:AL:56:LEU:CA	2.23	0.48
13:AN:85:ARG:CZ	13:AN:111:ASP:OD2	2.61	0.48
1:AA:1524:C:H5''	13:AN:120:ARG:HH22	1.78	0.48
13:AN:29:ILE:HG22	13:AN:44:SER:OG	2.13	0.48
13:AN:67:ASP:O	13:AN:68:ALA:C	2.50	0.48
14:AO:24:VAL:HG13	14:AO:26:ALA:H	1.77	0.48
14:AO:28:LYS:CE	14:AO:33:ARG:HH12	2.19	0.48
15:AP:2:ALA:O	15:AP:8:GLU:O	2.31	0.48
15:AP:81:LEU:HD21	15:AP:88:ARG:NH2	2.28	0.48
1:AA:392:G:C4'	18:AS:12:LYS:HZ3	2.26	0.48
1:AA:136:C:H4'	18:AS:65:GLN:NE2	2.29	0.48
18:AS:9:PHE:CE1	18:AS:18:ARG:HG3	2.47	0.48
13:AN:110:ASP:OD2	20:AU:88:LYS:HD2	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
21:AV:16:LEU:CD1	21:AV:44:MET:HE1	2.35	0.48
24:BA:850:C:H5''	49:B2:18:ASP:CB	2.43	0.48
49:B2:50:VAL:HG13	49:B2:53:LEU:CB	2.42	0.48
50:B3:47:GLN:CA	50:B3:52:THR:HG21	2.37	0.48
52:B5:17:LYS:HE2	52:B5:49:HIS:O	2.12	0.48
24:BA:464:U:C1'	53:B6:12:ARG:NH2	2.76	0.48
54:B7:61:LEU:O	54:B7:62:LEU:HD23	2.13	0.48
24:BA:1005:C:H2'	24:BA:1006:C:C6	2.27	0.48
24:BA:1022:G:C3'	24:BA:1025:G:O6	2.61	0.48
24:BA:1024:G:O6	24:BA:1134:G:H1'	2.14	0.48
24:BA:107:C:H2'	24:BA:108:U:C6	2.48	0.48
24:BA:1029:A:N6	24:BA:1125:G:C2	2.81	0.48
24:BA:1223:C:O2	24:BA:1223:C:H2'	2.13	0.48
24:BA:1256:G:O2'	24:BA:1257:C:H5'	2.13	0.48
24:BA:1257:C:H2'	24:BA:1258:C:C6	2.48	0.48
24:BA:1364:G:P	24:BA:1364:G:C8	3.06	0.48
24:BA:1426:G:H3'	24:BA:1427:A:H5''	1.95	0.48
24:BA:1439:A:N7	24:BA:1440:G:N9	2.61	0.48
24:BA:1451:C:H2'	24:BA:1451:C:O2	2.13	0.48
24:BA:147:U:N3	24:BA:148:C:N4	2.60	0.48
24:BA:1449:A:OP1	24:BA:1543:A:C2	2.66	0.48
24:BA:1643:G:N2	24:BA:1644:C:H1'	2.28	0.48
24:BA:1742:C:C2'	24:BA:1743:G:H4'	2.38	0.48
24:BA:1746:G:P	24:BA:1746:G:H3'	2.54	0.48
24:BA:1753:G:C3'	24:BA:1753:G:C8	2.95	0.48
24:BA:1797:C:N3	24:BA:1798:U:O4	2.47	0.48
24:BA:1815:A:N3	24:BA:1817:G:C6	2.81	0.48
3:AD:4:C:O4'	24:BA:1851:U:OP1	2.31	0.48
24:BA:1869:G:N3	24:BA:1878:G:O6	2.47	0.48
24:BA:1970:A:HO2'	24:BA:1971:A:P	2.35	0.48
24:BA:2048:G:N1	24:BA:2049:G:C5	2.81	0.48
24:BA:2199:A:H8	24:BA:2199:A:O5'	1.89	0.48
24:BA:20:C:HO2'	24:BA:21:A:H5'	1.75	0.48
24:BA:2213:U:C2	24:BA:2213:U:H3'	2.48	0.48
24:BA:2245:U:C2	24:BA:2435:A:C8	3.01	0.48
24:BA:2252:G:N7	24:BA:2253:G:C5	2.81	0.48
24:BA:858:U:C2'	24:BA:2268:A:C8	2.92	0.48
24:BA:2275:C:O2'	24:BA:2276:G:OP2	2.25	0.48
24:BA:2341:G:C2'	24:BA:2342:C:C6	2.89	0.48
24:BA:2405:G:C2'	24:BA:2406:U:OP2	2.60	0.48
24:BA:2414:G:C2	24:BA:2415:G:C8	3.01	0.48
24:BA:2486:G:N2	24:BA:2487:G:C4	2.81	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2512:C:C3'	24:BA:2512:C:C6	2.97	0.48
24:BA:1782:C:C2	24:BA:2609:U:C6	3.01	0.48
24:BA:270(J):G:N1	24:BA:270(K):C:C2	2.82	0.48
24:BA:2799:A:H5''	24:BA:2801:A:OP2	2.14	0.48
24:BA:279:C:N4	24:BA:359:A:C1'	2.67	0.48
24:BA:2801:A:OP1	24:BA:2802:G:P	2.71	0.48
24:BA:2706:G:H5'	24:BA:2852:G:P	2.53	0.48
24:BA:389:G:OP1	24:BA:389:G:H8	1.94	0.48
24:BA:410:G:C3'	24:BA:411:G:C8	2.96	0.48
24:BA:631:A:C2	24:BA:2416:C:O4'	2.66	0.48
24:BA:720:C:O2'	24:BA:721:C:C5'	2.61	0.48
24:BA:742:G:O2'	24:BA:743:G:H5'	2.13	0.48
24:BA:800:A:O2'	24:BA:801:G:O5'	2.31	0.48
24:BA:878:A:C2'	24:BA:879:G:H8	2.26	0.48
24:BA:885:C:N4	24:BA:889:C:H6	2.10	0.48
24:BA:8:A:H5''	34:BM:51:PHE:HE2	1.76	0.48
24:BA:909:A:O2'	24:BA:911:A:OP2	2.28	0.48
24:BA:569:U:C5'	24:BA:946:G:H1'	2.33	0.48
24:BA:954:G:O2'	24:BA:955:C:H5'	2.13	0.48
24:BA:980:A:N6	24:BA:1135:C:H4'	2.28	0.48
24:BA:987:G:OP1	49:B2:13:ILE:CG2	2.57	0.48
27:BD:127:VAL:HG22	27:BD:194:GLY:HA2	1.94	0.48
27:BD:167:GLY:C	27:BD:174:ILE:HD13	2.33	0.48
27:BD:21:PHE:O	27:BD:205:VAL:HG13	2.14	0.48
27:BD:264:LYS:O	27:BD:265:PRO:C	2.49	0.48
27:BD:46:GLN:HE22	27:BD:51:VAL:HG23	1.78	0.48
24:BA:2053:G:O4'	28:BE:149:ARG:HA	2.13	0.48
28:BE:47:VAL:HA	28:BE:48:GLN:HE22	1.76	0.48
29:BF:9:ILE:CG2	29:BF:10:PRO:N	2.77	0.48
31:BH:27:LYS:HZ2	31:BH:32:GLU:HB2	1.77	0.48
33:BL:104:VAL:HG13	33:BL:127:ILE:CB	2.40	0.48
34:BM:4:TYR:HB3	41:BT:64:ARG:NH2	2.28	0.48
35:BN:99:PHE:HA	35:BN:122:LEU:O	2.14	0.48
24:BA:603:A:H5''	36:BO:100:LEU:HD21	1.96	0.48
36:BO:60:MET:SD	36:BO:60:MET:N	2.86	0.48
37:BP:42:ILE:HD13	37:BP:43:THR:O	2.13	0.48
38:BQ:33:ARG:CB	38:BQ:113:LEU:HD11	2.34	0.48
38:BQ:54:LEU:CD1	38:BQ:54:LEU:H	2.27	0.48
38:BQ:74:LYS:N	38:BQ:77:ARG:NH2	2.61	0.48
39:BR:97:ARG:CG	39:BR:97:ARG:HH21	2.23	0.48
40:BS:80:SER:HB3	40:BS:81:PRO:CD	2.40	0.48
42:BU:13:ARG:C	42:BU:14:VAL:CG2	2.82	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BU:20:LEU:CD1	42:BU:68:LYS:HZ3	2.09	0.48
43:BV:21:VAL:CG2	43:BV:75:TYR:HD2	2.25	0.48
43:BV:34:ASN:CG	43:BV:37:ARG:HH11	2.17	0.48
46:BY:45:ASP:HA	46:BY:48:PHE:HD1	1.79	0.48
46:BY:59:LEU:HD23	46:BY:60:GLU:N	2.27	0.48
32:BK:132:PRO:HD2	32:BK:138:ILE:H	1.77	0.48
32:BK:125:GLU:HA	32:BK:143:SER:HA	1.95	0.48
3:AD:18:G:H21	3:AD:58:A:H5'	1.72	0.48
3:AD:9:A:N6	3:AD:23:A:H62	1.98	0.48
24:BA:2168:G:C2'	24:BA:2170:A:OP2	2.61	0.48
26:BC:181:PRO:CD	26:BC:184:LYS:HD2	2.35	0.48
26:BC:200:LYS:HZ2	26:BC:204:ALA:HB3	1.76	0.48
26:BC:32:LEU:HB3	26:BC:220:PRO:CG	2.24	0.48
26:BC:47:LEU:HA	26:BC:208:PHE:O	2.14	0.48
1:AA:345:C:H5'	1:AA:346:G:C4	2.48	0.48
1:AA:1057:G:H2'	1:AA:1058:G:O5'	2.14	0.48
1:AA:1067:A:C2	1:AA:1068:G:H1'	2.47	0.48
1:AA:1087:G:N2	1:AA:1099:G:C4	2.82	0.48
1:AA:1094:G:C2'	1:AA:1108:G:H22	2.27	0.48
1:AA:1148:U:O2	1:AA:1149:C:O4'	2.31	0.48
1:AA:1158:C:C4	1:AA:1160:G:C1'	2.90	0.48
1:AA:1191:A:O5'	5:AF:4:LYS:NZ	2.46	0.48
1:AA:1217:C:H2'	1:AA:1218:C:C6	2.47	0.48
1:AA:1372:U:H2'	1:AA:1373:G:O4'	2.13	0.48
1:AA:1377:A:O2'	1:AA:1378:C:P	2.71	0.48
1:AA:1405:G:C2	1:AA:1406:U:C5	3.01	0.48
1:AA:1422:G:O2'	1:AA:1423:G:H5'	2.13	0.48
1:AA:1492:A:C6	14:AO:50:SER:HB2	2.48	0.48
1:AA:117:G:O6	1:AA:289:G:O4'	2.30	0.48
1:AA:41:G:N3	1:AA:42:G:C8	2.81	0.48
1:AA:556:C:C2'	1:AA:557:G:H5'	2.43	0.48
1:AA:566:G:H4'	1:AA:567:G:C5'	2.43	0.48
1:AA:593:G:H2'	1:AA:594:G:O4'	2.13	0.48
1:AA:826:C:C2	1:AA:827:U:C5	3.01	0.48
1:AA:821:G:O6	1:AA:880:C:N4	2.46	0.48
3:AB:18:G:H2'	3:AB:57:G:H1	1.77	0.48
3:AB:32:U:H2'	3:AB:33:U:C6	2.49	0.48
3:AB:61:C:H2'	3:AB:62:C:C5	2.48	0.48
3:AC:18:G:N2	3:AC:58:A:C4	2.80	0.48
4:AE:131:PRO:O	4:AE:134:GLU:CB	2.61	0.48
5:AF:114:PRO:HD3	5:AF:183:ASP:CG	2.34	0.48
5:AF:39:ILE:CG2	5:AF:40:ARG:N	2.72	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:14:ARG:CZ	6:AG:14:ARG:O	2.62	0.48
6:AG:54:TYR:O	6:AG:56:VAL:N	2.46	0.48
6:AG:79:PHE:HA	6:AG:93:PHE:CD1	2.49	0.48
8:AI:53:ALA:O	8:AI:55:ASP:OD1	2.31	0.48
8:AI:34:GLY:HA3	8:AI:68:PRO:CG	2.44	0.48
9:AJ:113:GLU:CB	9:AJ:118:VAL:CG1	2.91	0.48
10:AK:114:THR:OG1	10:AK:119:LEU:CD2	2.61	0.48
1:AA:1148:U:C4'	11:AL:16:ARG:HD2	2.43	0.48
12:AM:10:GLY:HA3	12:AM:16:LEU:CD2	2.42	0.48
12:AM:49:VAL:HG11	16:AQ:45:ARG:HD2	1.93	0.48
15:AP:13:LYS:CG	15:AP:17:VAL:HG11	2.43	0.48
15:AP:95:GLY:O	15:AP:110:ARG:HD2	2.13	0.48
12:AM:63:PHE:HA	16:AQ:59:ALA:N	2.28	0.48
19:AT:32:TYR:O	19:AT:34:LYS:N	2.46	0.48
20:AU:25:THR:HG22	20:AU:42:ARG:CZ	2.43	0.48
48:B1:27:LEU:H	48:B1:27:LEU:HD12	1.78	0.48
49:B2:11:SER:N	49:B2:12:PRO:CD	2.76	0.48
49:B2:23:LEU:HA	49:B2:26:LEU:CD2	2.43	0.48
49:B2:38:GLU:O	49:B2:40:THR:N	2.47	0.48
53:B6:22:MET:CA	53:B6:28:ARG:HG2	2.42	0.48
55:B8:7:VAL:HG21	55:B8:36:GLN:HE22	1.76	0.48
24:BA:1019:U:C5'	24:BA:1019:U:H6	2.26	0.48
24:BA:1035:U:O3'	31:BH:59:ARG:CZ	2.62	0.48
24:BA:1036:G:H5'	31:BH:59:ARG:HH22	1.78	0.48
24:BA:1071:G:N7	24:BA:1072:C:C5	2.81	0.48
24:BA:1022:G:C5	24:BA:1139:G:N1	2.81	0.48
24:BA:1264:G:C5	24:BA:1265:A:C5	3.01	0.48
24:BA:1277:G:O2'	38:BQ:24:GLN:NE2	2.41	0.48
24:BA:1287:A:OP1	38:BQ:105:ARG:HB2	2.14	0.48
24:BA:1343:G:H2'	24:BA:1384:A:C2	2.48	0.48
24:BA:1348:G:C6	24:BA:1349:A:C6	3.01	0.48
24:BA:1368:G:O6	50:B3:2:LYS:CE	2.60	0.48
24:BA:1458:C:C4'	24:BA:1459:G:C8	2.92	0.48
24:BA:1471:A:N7	24:BA:1519:G:C6	2.81	0.48
24:BA:149:A:H2'	24:BA:150:C:C5'	2.41	0.48
24:BA:1539:G:N7	24:BA:1540:G:C8	2.81	0.48
24:BA:154:G:C2	24:BA:155:C:C4	3.02	0.48
24:BA:1678:G:O5'	24:BA:1678:G:H8	1.96	0.48
24:BA:1690:A:N1	24:BA:1691:C:H1'	2.27	0.48
24:BA:1762:A:H5'	24:BA:1763:G:OP2	2.13	0.48
24:BA:1831:G:H2'	24:BA:1832:C:C6	2.47	0.48
24:BA:1834:U:C4'	24:BA:1834:U:OP1	2.61	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1965:C:H5'	24:BA:1966:A:H3'	1.96	0.48
24:BA:199:A:H5'	24:BA:200:U:OP2	2.13	0.48
24:BA:2016:U:C1'	51:B4:6:VAL:HG11	2.43	0.48
24:BA:2026:C:N3	24:BA:2027:G:C8	2.81	0.48
24:BA:2244:U:O4'	24:BA:2434:A:N6	2.47	0.48
24:BA:2258:C:C4	24:BA:2426:A:O4'	2.66	0.48
24:BA:2331:G:C2'	24:BA:2332:U:O4'	2.59	0.48
24:BA:218:A:N1	24:BA:235:U:H4'	2.29	0.48
24:BA:2361:A:OP2	54:B7:47:LYS:NZ	2.34	0.48
24:BA:2460:U:H3'	24:BA:2461:C:C6	2.48	0.48
24:BA:2471:C:H2'	24:BA:2472:G:O5'	2.12	0.48
24:BA:2472:G:C2	24:BA:2475:C:C2	3.02	0.48
24:BA:2487:G:N3	24:BA:2488:A:C8	2.82	0.48
24:BA:2507:C:C4	24:BA:2508:G:N7	2.80	0.48
24:BA:245:G:H21	24:BA:254:G:H1'	1.75	0.48
24:BA:2562:U:N3	24:BA:2563:U:C6	2.82	0.48
24:BA:2690:C:O2'	24:BA:2691:C:O5'	2.30	0.48
24:BA:270(C):C:OP1	24:BA:365:C:C1'	2.61	0.48
24:BA:2729:G:C6	24:BA:2730:C:C4	3.00	0.48
24:BA:2848:G:O5'	40:BS:99:LEU:HG	2.13	0.48
24:BA:377:C:H2'	24:BA:378:C:C6	2.47	0.48
24:BA:411:G:N3	24:BA:2408:U:C4	2.81	0.48
24:BA:459:U:H3'	53:B6:40:TRP:CZ3	2.47	0.48
24:BA:463:G:O3'	24:BA:464:U:H5	1.95	0.48
24:BA:500:G:O2'	24:BA:501:A:H3'	2.14	0.48
24:BA:546:C:C2	24:BA:547:A:C6	3.01	0.48
24:BA:600:G:H22	24:BA:604:G:H4'	1.76	0.48
24:BA:656:G:C2'	24:BA:657:U:O5'	2.60	0.48
24:BA:66:C:N4	24:BA:67:U:O4	2.47	0.48
24:BA:671:C:N4	24:BA:672:C:H41	2.11	0.48
24:BA:66:C:C2'	24:BA:67:U:O5'	2.60	0.48
24:BA:729:G:OP1	27:BD:19:ALA:CB	2.60	0.48
24:BA:768:G:H8	24:BA:768:G:O5'	1.96	0.48
24:BA:819:A:N7	24:BA:973:A:C2	2.81	0.48
24:BA:858:U:H4'	24:BA:859:G:OP1	2.12	0.48
24:BA:863:A:C2	24:BA:864:G:C5	3.00	0.48
24:BA:870:A:H2'	24:BA:871:U:O4'	2.13	0.48
24:BA:873:G:C5	24:BA:874:G:C8	3.02	0.48
24:BA:912:C:HO2'	24:BA:913:U:H5'	1.78	0.48
24:BA:947:G:C2	24:BA:948:G:C8	3.01	0.48
25:BB:15:A:C5'	25:BB:16:G:O5'	2.61	0.48
27:BD:109:ASP:O	27:BD:111:LEU:N	2.46	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:147:LEU:H	27:BD:154:LYS:CG	2.27	0.48
27:BD:166:GLN:O	27:BD:167:GLY:O	2.31	0.48
27:BD:219:PRO:HB2	27:BD:220:HIS:CD2	2.48	0.48
27:BD:5:LYS:HA	27:BD:29:PRO:HD3	1.96	0.48
27:BD:5:LYS:CA	27:BD:28:GLU:HB2	2.43	0.48
27:BD:85:ASP:CB	27:BD:87:ASN:HD21	2.24	0.48
28:BE:119:ARG:CZ	28:BE:155:LYS:HD2	2.42	0.48
28:BE:133:LYS:CD	28:BE:137:HIS:CG	2.90	0.48
28:BE:104:VAL:HG22	28:BE:198:VAL:HA	1.95	0.48
29:BF:35:GLU:HA	29:BF:38:ARG:HD2	1.94	0.48
30:BG:33:ARG:C	30:BG:33:ARG:NH2	2.66	0.48
30:BG:68:PRO:HB3	30:BG:72:ARG:HH12	1.76	0.48
31:BH:131:VAL:O	31:BH:131:VAL:HG12	2.12	0.48
33:BL:51:ALA:HA	33:BL:80:LYS:HG3	1.95	0.48
33:BL:54:PRO:HG3	33:BL:73:PRO:HD3	1.94	0.48
34:BM:33:LEU:HD13	34:BM:34:LEU:CG	2.35	0.48
34:BM:42:TRP:CZ3	41:BT:71:GLN:NE2	2.82	0.48
24:BA:2040:C:H4'	34:BM:72:TYR:HE2	1.79	0.48
35:BN:32:TYR:O	35:BN:34:THR:OG1	2.30	0.48
35:BN:69:VAL:H	35:BN:104:ARG:HH22	1.58	0.48
35:BN:97:ARG:C	35:BN:97:ARG:CZ	2.79	0.48
37:BP:85:LYS:HG3	37:BP:88:GLY:H	1.77	0.48
38:BQ:67:LEU:O	38:BQ:67:LEU:HD22	2.13	0.48
39:BR:49:VAL:CG2	39:BR:50:SER:N	2.76	0.48
40:BS:28:VAL:HG23	40:BS:93:ARG:C	2.34	0.48
41:BT:58:ARG:HH11	41:BT:58:ARG:CG	2.25	0.48
42:BU:15:GLU:OE1	42:BU:16:PRO:HD3	2.13	0.48
42:BU:78:LYS:CA	42:BU:83:ARG:O	2.61	0.48
43:BV:24:ILE:HG21	43:BV:36:LEU:HB2	1.95	0.48
43:BV:36:LEU:HD21	43:BV:48:ALA:N	2.28	0.48
44:BW:23:GLU:C	44:BW:23:GLU:OE1	2.51	0.48
44:BW:73:ARG:HH11	44:BW:73:ARG:CB	2.12	0.48
44:BW:73:ARG:NH1	44:BW:74:PRO:O	2.44	0.48
46:BY:169:GLU:O	46:BY:170:THR:HB	2.13	0.48
46:BY:20:ARG:CG	46:BY:20:ARG:HH11	2.26	0.48
47:BZ:14:ARG:N	47:BZ:14:ARG:HD3	2.29	0.48
47:BZ:1:MET:O	47:BZ:2:ALA:CB	2.61	0.48
47:BZ:50:ASN:O	47:BZ:81:VAL:HG21	2.13	0.48
3:AD:62:C:H5'	26:BC:52:ARG:NH1	2.28	0.48
24:BA:2114:A:H8	24:BA:2114:A:P	2.36	0.48
24:BA:2132:U:H2'	24:BA:2134:A:N7	2.28	0.48
6:AG:47:ARG:NH2	6:AG:48:ALA:O	2.46	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:B1:1:MET:H1	48:B1:2:ARG:HH12	1.62	0.48
1:AA:342:C:C2	1:AA:343:U:C5	3.02	0.48
1:AA:160:A:H1'	1:AA:344:A:N7	2.29	0.48
24:BA:1578:U:C2'	24:BA:1579:A:O5'	2.61	0.48
15:AP:121:LYS:O	15:AP:122:LYS:HB3	2.13	0.48
24:BA:1414:G:N2	24:BA:1415:U:C2	2.81	0.48
1:AA:1533:C:N4	2:A1:32:U:H3	2.12	0.48
2:A1:37:U:H2'	2:A1:38:U:C4	2.48	0.48
1:AA:1046:A:H2'	1:AA:1046:A:N3	2.29	0.48
1:AA:1109:C:H2'	1:AA:1110:A:H8	1.78	0.48
1:AA:1132:C:H2'	1:AA:1133:G:C8	2.47	0.48
1:AA:1155:G:H2'	1:AA:1156:G:H8	1.78	0.48
1:AA:1240:U:H4'	1:AA:1241:G:OP2	2.12	0.48
1:AA:1150:U:C5'	1:AA:1280:A:C2	2.95	0.48
1:AA:1284:C:C6	1:AA:1285:A:N7	2.81	0.48
1:AA:1500:A:H2'	1:AA:1501:C:H6	1.79	0.48
1:AA:68:G:C4'	1:AA:171:A:H1'	2.44	0.48
1:AA:294:U:H2'	1:AA:295:C:C6	2.48	0.48
1:AA:48:C:C5	1:AA:364:A:H2	2.32	0.48
1:AA:432:A:C3'	1:AA:432:A:C8	2.97	0.48
1:AA:446:G:H2'	1:AA:447:G:H8	1.79	0.48
1:AA:529:G:C6	14:AO:49:ASN:ND2	2.81	0.48
1:AA:584:G:C2'	1:AA:585:G:O5'	2.62	0.48
1:AA:683:G:H2'	1:AA:684:A:C8	2.48	0.48
1:AA:666:G:H22	1:AA:741:G:H1'	1.78	0.48
1:AA:580:U:O4	1:AA:761:G:O6	2.31	0.48
1:AA:842:C:H5'	1:AA:848:C:O2	2.13	0.48
1:AA:866:C:H6	1:AA:867:G:C1'	2.27	0.48
1:AA:872:A:C4	1:AA:874:G:N7	2.82	0.48
1:AA:890:G:O2'	1:AA:891:U:O5'	2.31	0.48
1:AA:997:U:C6	1:AA:997:U:OP2	2.66	0.48
4:AE:189:ASP:CB	4:AE:205:ASP:HB3	2.40	0.48
4:AE:209:ARG:C	4:AE:209:ARG:HD2	2.33	0.48
4:AE:78:GLN:NE2	4:AE:96:ARG:NH1	2.57	0.48
5:AF:140:ARG:HH11	5:AF:140:ARG:HB3	1.75	0.48
1:AA:1111:A:N1	5:AF:177:THR:HA	2.28	0.48
5:AF:6:HIS:HA	5:AF:7:PRO:HD2	1.77	0.48
6:AG:70:ILE:CD1	6:AG:100:ARG:HH21	2.18	0.48
6:AG:120:LEU:CG	6:AG:121:VAL:N	2.77	0.48
6:AG:118:ARG:HA	6:AG:136:PRO:HB3	1.95	0.48
6:AG:62:GLN:CA	6:AG:62:GLN:HE21	2.26	0.48
6:AG:64:LEU:O	6:AG:67:ILE:HG13	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AI:41:GLU:N	8:AI:63:TYR:CD1	2.81	0.48
9:AJ:65:ALA:HA	9:AJ:128:ALA:N	2.28	0.48
9:AJ:15:ASP:OD2	9:AJ:23:VAL:HG11	2.12	0.48
10:AK:36:LEU:HD12	10:AK:48:TYR:CD1	2.48	0.48
11:AL:2:GLU:O	11:AL:21:PRO:HD2	2.13	0.48
11:AL:79:LEU:HD22	11:AL:101:PHE:CD2	2.47	0.48
12:AM:31:GLY:CA	12:AM:81:THR:OG1	2.62	0.48
14:AO:102:ARG:CZ	14:AO:109:GLY:C	2.82	0.48
15:AP:24:GLY:CA	15:AP:66:LEU:HB2	2.19	0.48
15:AP:29:ARG:HH11	15:AP:66:LEU:HD22	1.79	0.48
18:AS:14:ASN:C	18:AS:14:ASN:OD1	2.51	0.48
20:AU:71:LYS:O	20:AU:72:ARG:C	2.51	0.48
22:AW:59:ALA:O	22:AW:61:SER:N	2.46	0.48
22:AW:85:MET:HB2	22:AW:104:LEU:CD2	2.35	0.48
49:B2:28:LEU:HA	49:B2:33:GLN:OE1	2.13	0.48
51:B4:13:LYS:O	51:B4:16:ARG:N	2.47	0.48
52:B5:16:CYS:O	52:B5:18:ARG:N	2.46	0.48
53:B6:22:MET:C	53:B6:28:ARG:HG2	2.33	0.48
24:BA:179:G:C5'	53:B6:32:LYS:HZ3	2.22	0.48
54:B7:52:LYS:O	54:B7:56:GLU:OE1	2.31	0.48
55:B8:9:ARG:O	55:B8:10:ILE:HG23	2.14	0.48
24:BA:1058:G:C2'	33:BL:116:ASN:HB3	2.44	0.48
24:BA:1025:G:H8	24:BA:1134:G:H1'	1.78	0.48
24:BA:1137:G:O2'	34:BM:102:ALA:HA	2.13	0.48
24:BA:1143:A:C2	24:BA:1144:G:C4	3.01	0.48
24:BA:1144:G:O2'	24:BA:1145:C:H5'	2.13	0.48
24:BA:1188:U:H2'	24:BA:1189:A:C5'	2.43	0.48
24:BA:1221:C:C2	24:BA:1229:G:C2	3.02	0.48
24:BA:1267:U:C6	24:BA:1267:U:C3'	2.97	0.48
24:BA:1426:G:N3	24:BA:1573:G:N2	2.61	0.48
24:BA:1524:G:C4	24:BA:1525:G:N7	2.82	0.48
24:BA:1558:A:H1'	24:BA:1559:G:O6	2.13	0.48
24:BA:1575:C:C4	24:BA:1576:U:C4	3.02	0.48
24:BA:1650:G:HO2'	24:BA:1651:G:P	2.33	0.48
24:BA:1651:G:H5''	24:BA:1652:A:OP1	2.13	0.48
24:BA:1655:A:C5'	28:BE:113:PHE:C	2.82	0.48
24:BA:1735:C:C2	24:BA:1741:C:C5	3.00	0.48
24:BA:151:C:N4	24:BA:175:G:O6	2.43	0.48
24:BA:1791:A:C3'	24:BA:1792:G:H8	2.15	0.48
24:BA:1869:G:O2'	24:BA:1871:A:N7	2.36	0.48
24:BA:2056:G:O5'	24:BA:2057:A:P	2.71	0.48
24:BA:2350:C:C2'	24:BA:2351:G:O5'	2.61	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2416:C:OP1	36:BO:59:LEU:C	2.52	0.48
24:BA:957:A:N1	24:BA:2459:A:C5'	2.77	0.48
24:BA:2469:A:H2'	24:BA:2470:G:H5'	1.95	0.48
24:BA:2607:G:C6	24:BA:2608:G:C2	3.01	0.48
24:BA:270(G):C:H2'	24:BA:270(H):C:C5	2.48	0.48
24:BA:35:G:H21	24:BA:450:G:H21	1.58	0.48
24:BA:458:G:H5''	53:B6:39:ARG:NE	2.29	0.48
24:BA:583:G:H2'	24:BA:584:C:O5'	2.14	0.48
24:BA:624:C:C3'	24:BA:624:C:H6	2.22	0.48
24:BA:805:G:N7	24:BA:2068:U:OP1	2.47	0.48
24:BA:852:G:C5	24:BA:926:A:C2	3.02	0.48
24:BA:864:G:C2'	24:BA:865:C:H1'	2.43	0.48
24:BA:936:C:C2	24:BA:937:U:C5	3.02	0.48
25:BB:40:U:H3'	25:BB:41:U:H5'	1.96	0.48
25:BB:42:C:H2'	25:BB:43:C:C6	2.48	0.48
25:BB:61:G:C4	25:BB:62:C:C5	3.02	0.48
25:BB:71:C:O2	25:BB:72:G:H4'	2.13	0.48
27:BD:157:ARG:HH11	27:BD:178:PRO:CD	2.26	0.48
27:BD:92:ILE:CD1	27:BD:104:TYR:CD1	2.96	0.48
24:BA:2773:C:H5''	28:BE:165:VAL:HG13	1.95	0.48
29:BF:169:ASN:ND2	29:BF:171:PRO:O	2.47	0.48
29:BF:163:VAL:HG21	29:BF:195:ASP:OD2	2.14	0.48
29:BF:23:ASP:O	29:BF:24:LEU:HD23	2.13	0.48
30:BG:19:LEU:N	30:BG:19:LEU:CD1	2.76	0.48
31:BH:74:ASN:HB2	31:BH:138:LYS:HZ3	1.75	0.48
33:BL:10:LEU:CD2	33:BL:27:LEU:HD21	2.43	0.48
33:BL:68:VAL:HG21	33:BL:70:LYS:NZ	2.28	0.48
34:BM:66:LYS:C	34:BM:69:GLN:OE1	2.52	0.48
35:BN:18:LYS:NZ	35:BN:44:LYS:HZ3	2.07	0.48
35:BN:64:ARG:NH2	35:BN:78:ARG:NH1	2.61	0.48
37:BP:22:LYS:HA	37:BP:99:PRO:HD3	1.96	0.48
38:BQ:10:LEU:CB	38:BQ:17:ARG:NH1	2.76	0.48
38:BQ:96:ARG:NE	38:BQ:117:VAL:HG23	2.28	0.48
38:BQ:17:ARG:O	38:BQ:18:LEU:C	2.52	0.48
38:BQ:51:LEU:HD23	38:BQ:70:LEU:HD11	1.92	0.48
38:BQ:99:LYS:HA	38:BQ:112:ALA:CB	2.39	0.48
39:BR:19:LYS:HD3	39:BR:20:ARG:N	2.29	0.48
39:BR:5:THR:HG22	39:BR:6:ALA:N	2.29	0.48
40:BS:33:LYS:CA	40:BS:46:GLU:O	2.35	0.48
40:BS:85:LYS:CB	40:BS:85:LYS:HZ2	2.24	0.48
40:BS:85:LYS:N	40:BS:85:LYS:NZ	2.57	0.48
24:BA:30:G:OP1	41:BT:8:VAL:CG1	2.61	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BU:22:VAL:O	42:BU:93:GLU:OE1	2.31	0.48
45:BX:53:PRO:HG2	45:BX:55:TYR:O	2.12	0.48
45:BX:84:ARG:HG2	45:BX:85:VAL:N	2.29	0.48
46:BY:158:PRO:CB	46:BY:159:PRO:CD	2.89	0.48
46:BY:127:LYS:CA	46:BY:164:ALA:HB3	2.41	0.48
46:BY:28:MET:C	46:BY:28:MET:SD	2.92	0.48
25:BB:105:G:H4'	46:BY:32:HIS:ND1	2.29	0.48
47:BZ:25:ARG:HD2	47:BZ:29:GLN:HE22	1.79	0.48
47:BZ:44:ARG:O	47:BZ:77:ARG:HG3	2.13	0.48
32:BK:69:LYS:C	32:BK:73:GLU:OE1	2.52	0.48
24:BA:2126:A:O2'	24:BA:2127:G:P	2.72	0.48
26:BC:74:VAL:CG1	26:BC:114:VAL:HG22	2.43	0.48
1:AA:160:A:O4'	1:AA:344:A:N7	2.47	0.48
24:BA:1413:G:N2	24:BA:1590:U:H1'	2.29	0.48
1:AA:73:G:C6	1:AA:74:C:N4	2.82	0.48
22:AW:36:LEU:HA	22:AW:36:LEU:HD23	1.47	0.48
2:A1:31:U:N3	2:A1:32:U:C4	2.81	0.48
1:AA:1321:C:C5	1:AA:1322:C:C3'	2.97	0.48
1:AA:934:C:N4	1:AA:1344:C:C2	2.78	0.48
1:AA:1347:G:H4'	1:AA:1348:U:C5'	2.42	0.48
1:AA:1410:G:C2	1:AA:1411:C:C4	3.01	0.48
1:AA:166:G:H2'	1:AA:167:G:O5'	2.13	0.48
1:AA:246:A:HO2'	1:AA:247:G:C1'	2.17	0.48
1:AA:251:G:C5'	1:AA:252:U:OP1	2.61	0.48
1:AA:323:U:H5	1:AA:324:G:N9	2.11	0.48
1:AA:375:U:C2'	1:AA:376:G:H5'	2.43	0.48
1:AA:430:A:C5	1:AA:431:A:C8	3.01	0.48
1:AA:621:A:H2'	1:AA:622:A:H8	1.77	0.48
1:AA:643:C:N3	1:AA:644:G:N7	2.60	0.48
1:AA:666:G:N1	1:AA:741:G:C4	2.82	0.48
1:AA:705:U:C4	1:AA:706:A:N7	2.81	0.48
1:AA:739:C:C2'	1:AA:740:U:H5'	2.43	0.48
1:AA:786:G:N2	1:AA:787:A:H1'	2.28	0.48
1:AA:832:C:N3	1:AA:833:U:C4	2.82	0.48
1:AA:22:G:O4'	1:AA:885:G:H1'	2.14	0.48
1:AA:950:U:H3'	15:AP:102:ARG:HH22	1.77	0.48
1:AA:1493:A:C6	3:AB:37:A:H5'	2.49	0.48
3:AC:72:C:C4	3:AC:73:A:N6	2.82	0.48
4:AE:77:ALA:O	4:AE:78:GLN:C	2.51	0.48
5:AF:58:GLU:HB2	5:AF:65:ALA:CB	2.44	0.48
5:AF:66:VAL:HB	5:AF:99:VAL:HG21	1.95	0.48
6:AG:187:ARG:HG3	6:AG:188:LEU:N	2.28	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:201:GLN:O	6:AG:202:LEU:C	2.52	0.48
6:AG:59:ARG:HB3	6:AG:63:LYS:NZ	2.29	0.48
7:AH:107:ARG:O	7:AH:108:ALA:C	2.50	0.48
7:AH:91:LEU:HA	7:AH:119:LEU:O	2.14	0.48
9:AJ:27:ILE:HG12	9:AJ:43:PHE:CG	2.48	0.48
9:AJ:37:ASN:O	9:AJ:39:ALA:N	2.47	0.48
9:AJ:57:GLU:HB3	9:AJ:58:PRO:HD2	1.95	0.48
9:AJ:72:ARG:HG2	9:AJ:142:GLU:CD	2.33	0.48
1:AA:824:C:C1'	10:AK:1:MET:N	2.77	0.48
10:AK:21:LYS:O	10:AK:63:LEU:HD13	2.13	0.48
10:AK:24:THR:H	10:AK:60:ARG:CD	2.26	0.48
10:AK:41:ARG:HH11	10:AK:41:ARG:C	2.17	0.48
1:AA:1179:A:O3'	11:AL:103:THR:OG1	2.32	0.48
11:AL:5:TYR:OH	11:AL:16:ARG:HG3	2.14	0.48
11:AL:75:ASP:O	11:AL:78:LYS:HB3	2.13	0.48
13:AN:58:PRO:HB3	13:AN:90:GLY:HA2	1.93	0.48
13:AN:78:GLN:CD	13:AN:78:GLN:N	2.66	0.48
1:AA:363:A:C8	14:AO:30:ALA:HB1	2.48	0.48
14:AO:86:ARG:HH22	14:AO:119:LYS:CD	2.26	0.48
1:AA:1317:C:H41	16:AQ:18:VAL:HG11	1.78	0.48
16:AQ:22:THR:HG22	16:AQ:33:VAL:HG23	1.94	0.48
16:AQ:3:ARG:HG3	16:AQ:3:ARG:O	2.13	0.48
17:AR:57:LEU:O	17:AR:58:MET:C	2.52	0.48
19:AT:27:PHE:HB2	19:AT:28:PRO:HD2	1.95	0.48
21:AV:30:LEU:HA	21:AV:48:THR:O	2.14	0.48
1:AA:1327:C:H5''	23:AX:20:LYS:NZ	2.28	0.48
48:B1:32:PHE:HB2	48:B1:33:GLN:HE22	1.78	0.48
24:BA:388:G:OP2	50:B3:23:GLU:OE2	2.31	0.48
50:B3:6:HIS:NE2	50:B3:55:ARG:CD	2.62	0.48
51:B4:4:HIS:CG	51:B4:5:PRO:CD	2.97	0.48
24:BA:1051:G:H5''	24:BA:1052:C:OP2	2.13	0.48
24:BA:1058:G:N3	33:BL:116:ASN:ND2	2.61	0.48
24:BA:1181:C:N4	24:BA:1182:A:N6	2.62	0.48
24:BA:1265:A:C1'	24:BA:1267:U:N3	2.77	0.48
24:BA:1391:U:C2'	24:BA:1391:U:O2	2.61	0.48
24:BA:1428:C:O2'	24:BA:1429:G:P	2.72	0.48
24:BA:1540:G:H3'	24:BA:1541:U:O4'	2.12	0.48
24:BA:1709:U:C5'	24:BA:1709:U:H6	2.25	0.48
24:BA:1746:G:O2'	24:BA:1747:G:O4'	2.22	0.48
24:BA:1782:C:O5'	24:BA:1783:A:OP2	2.32	0.48
24:BA:740:U:O4'	24:BA:1784:A:C6	2.67	0.48
24:BA:1837:C:C4	24:BA:1899:G:O6	2.67	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1954:G:C2'	24:BA:1956:U:O4	2.62	0.48
24:BA:1996:C:C2'	24:BA:1997:G:H4'	2.38	0.48
24:BA:2051:A:N3	24:BA:2614:A:N6	2.61	0.48
24:BA:2057:A:N7	24:BA:2058:A:N7	2.62	0.48
24:BA:2072:G:C6	24:BA:2073:C:C4	3.02	0.48
24:BA:225:A:N3	24:BA:225:A:H2'	2.29	0.48
24:BA:2286:A:H62	52:B5:30:THR:C	2.17	0.48
24:BA:2286:A:N6	52:B5:32:ASN:HA	2.29	0.48
24:BA:228:A:C2'	24:BA:229:A:H5'	2.36	0.48
24:BA:2371:G:N2	24:BA:2372:G:C4	2.82	0.48
24:BA:2423:U:C6	24:BA:2425:A:C5	3.02	0.48
24:BA:247:G:N1	54:B7:8:LYS:HD2	2.28	0.48
24:BA:2660:A:OP1	31:BH:175:LYS:HE3	2.13	0.48
24:BA:270(M):U:C3'	24:BA:270(N):G:H4'	2.44	0.48
24:BA:270(W):G:N7	24:BA:270(X):G:N7	2.61	0.48
24:BA:2751:G:N3	24:BA:2751:G:C2'	2.76	0.48
24:BA:2795:G:O5'	24:BA:2799:A:N1	2.46	0.48
24:BA:2872:G:C2	24:BA:2873:A:N6	2.82	0.48
24:BA:287:C:C2'	24:BA:288:C:H5	2.15	0.48
24:BA:30:G:C2'	24:BA:31:C:O4'	2.54	0.48
24:BA:322:A:H5'	24:BA:341:G:H5'	1.93	0.48
24:BA:332:A:O2'	24:BA:333:G:O5'	2.31	0.48
24:BA:371:A:C2	24:BA:372:G:C6	3.02	0.48
24:BA:462:C:C4	24:BA:468:G:N2	2.82	0.48
24:BA:645:C:H4'	24:BA:646:A:C8	2.49	0.48
24:BA:689:A:C2'	24:BA:690:G:O5'	2.62	0.48
24:BA:697:C:C3'	24:BA:698:C:H5''	2.43	0.48
24:BA:724:U:H2'	24:BA:725:G:O4'	2.13	0.48
24:BA:733:G:N7	24:BA:761:A:N6	2.61	0.48
24:BA:814:C:H2'	24:BA:815:C:H6	1.78	0.48
24:BA:856:C:C1'	47:BZ:69:PHE:CD1	2.96	0.48
24:BA:942:G:C5'	36:BO:32:THR:CG2	2.91	0.48
24:BA:973:A:HO2'	24:BA:974:G:H5'	1.73	0.48
25:BB:99:A:N6	25:BB:100:G:C6	2.81	0.48
25:BB:2:C:H6	25:BB:2:C:OP2	1.97	0.48
27:BD:224:ALA:O	27:BD:226:MET:N	2.47	0.48
28:BE:129:HIS:N	28:BE:129:HIS:CD2	2.78	0.48
28:BE:136:ARG:C	28:BE:137:HIS:CG	2.86	0.48
28:BE:149:ARG:HH11	28:BE:151:TYR:CA	2.27	0.48
28:BE:55:ASN:HA	28:BE:73:GLU:OE2	2.13	0.48
29:BF:103:LYS:HA	29:BF:106:ARG:CD	2.42	0.48
29:BF:145:GLU:C	29:BF:147:GLY:H	2.16	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:43:LYS:HE3	29:BF:98:SER:HB3	1.94	0.48
30:BG:16:ARG:HD2	30:BG:20:ILE:CD1	2.44	0.48
24:BA:2306:C:N3	30:BG:42:GLY:O	2.46	0.48
31:BH:148:ILE:CG2	31:BH:149:ARG:N	2.76	0.48
31:BH:97:ARG:HB3	31:BH:97:ARG:CZ	2.44	0.48
34:BM:38:HIS:O	34:BM:42:TRP:CZ3	2.67	0.48
34:BM:69:GLN:NE2	34:BM:69:GLN:N	2.61	0.48
35:BN:122:LEU:CA	40:BS:71:GLY:HA3	2.43	0.48
37:BP:16:ARG:O	37:BP:17:LEU:HD12	2.13	0.48
37:BP:99:PRO:O	37:BP:100:GLY:O	2.32	0.48
24:BA:2822:G:N7	38:BQ:4:LEU:CD2	2.77	0.48
38:BQ:74:LYS:N	38:BQ:77:ARG:HH22	2.12	0.48
35:BN:122:LEU:HB2	40:BS:71:GLY:HA3	1.95	0.48
24:BA:2848:G:H8	40:BS:99:LEU:CD1	2.16	0.48
41:BT:57:PHE:HD2	41:BT:61:TRP:HE1	1.62	0.48
43:BV:28:SER:O	43:BV:31:GLU:OE1	2.32	0.48
43:BV:25:ARG:HA	43:BV:71:VAL:HG21	1.95	0.48
24:BA:519:U:H5''	43:BV:75:TYR:HB2	1.96	0.48
45:BX:7:VAL:HG11	45:BX:72:VAL:H	1.78	0.48
45:BX:9:LYS:HD2	45:BX:110:GLU:HG3	1.96	0.48
46:BY:42:VAL:HG12	46:BY:46:LYS:HZ1	1.75	0.48
46:BY:40:ASP:O	46:BY:44:PHE:HD1	1.96	0.48
46:BY:60:GLU:CG	46:BY:69:THR:HG22	2.44	0.48
47:BZ:21:LEU:HD13	47:BZ:41:ARG:CG	2.39	0.48
47:BZ:46:LYS:CG	47:BZ:78:TYR:CD2	2.96	0.48
32:BK:69:LYS:HG3	32:BK:73:GLU:OE1	2.13	0.48
26:BC:117:PRO:HD3	26:BC:146:GLY:O	2.13	0.48
26:BC:18:LYS:O	26:BC:20:TYR:CE1	2.66	0.48
24:BA:1511:A:H3'	24:BA:1512:G:H5''	1.95	0.48
24:BA:1588:C:C2'	24:BA:1589:C:O5'	2.62	0.48
7:AH:153:LYS:HG2	7:AH:154:GLY:N	2.25	0.48
6:AG:159:ARG:HD2	6:AG:163:GLU:OE2	2.12	0.48
31:BH:20:ALA:HB1	31:BH:21:PRO:CD	2.42	0.48
27:BD:273:ARG:N	27:BD:273:ARG:HD3	2.28	0.48
2:A1:41:U:O2'	2:A1:42:U:H5'	2.14	0.48
1:AA:1074:G:O2'	1:AA:1075:C:H5'	2.14	0.48
1:AA:1080:A:N7	1:AA:1081:G:H1'	2.28	0.48
1:AA:1100:C:H2'	4:AE:98:LEU:HD13	1.86	0.48
1:AA:1127:G:O2'	1:AA:1148:U:N3	2.42	0.48
1:AA:1158:C:H2'	1:AA:1158:C:O2	2.12	0.48
1:AA:1325:C:C2	1:AA:1326:C:C5	3.01	0.48
1:AA:1288:A:H1'	1:AA:1352:C:O2'	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1358:U:H5''	1:AA:1359:C:OP2	2.13	0.48
1:AA:1413:A:N6	1:AA:1488:G:N1	2.62	0.48
1:AA:173:U:C5'	1:AA:197:A:H1'	2.43	0.48
1:AA:439:A:H3'	1:AA:440:A:C8	2.45	0.48
1:AA:60:A:O2'	1:AA:61:G:P	2.71	0.48
1:AA:873:A:N3	1:AA:873:A:H2'	2.28	0.48
1:AA:878:G:O2'	1:AA:879:C:H5'	2.13	0.48
1:AA:922:G:C2	1:AA:923:A:C4	3.02	0.48
1:AA:947:G:H2'	1:AA:948:C:H6	1.78	0.48
1:AA:996:A:C2	1:AA:997:U:C4	3.02	0.48
3:AB:31:A:C2'	3:AB:32:U:H5'	2.43	0.48
3:AC:19:G:C4	3:AC:57:G:N2	2.82	0.48
3:AD:3:C:C2	3:AD:4:C:C5	3.01	0.48
4:AE:112:VAL:CG1	4:AE:149:LEU:HD21	2.44	0.48
4:AE:52:GLU:O	4:AE:53:ARG:C	2.52	0.48
5:AF:8:ILE:HG13	5:AF:16:ARG:HD2	1.95	0.48
5:AF:28:GLN:C	5:AF:30:ARG:HD3	2.33	0.48
5:AF:48:TYR:C	5:AF:48:TYR:CD2	2.87	0.48
6:AG:102:ASP:HB2	6:AG:136:PRO:CA	2.44	0.48
6:AG:145:GLU:CG	6:AG:184:LYS:HE2	2.43	0.48
6:AG:30:LYS:HZ3	6:AG:35:ARG:HD2	1.77	0.48
7:AH:112:LEU:O	7:AH:113:ALA:C	2.52	0.48
9:AJ:102:ARG:O	9:AJ:105:VAL:N	2.47	0.48
9:AJ:113:GLU:OE1	9:AJ:119:ARG:N	2.47	0.48
9:AJ:149:ARG:O	9:AJ:152:ALA:N	2.46	0.48
10:AK:104:ARG:O	10:AK:105:ARG:C	2.51	0.48
10:AK:9:MET:CG	10:AK:26:VAL:HG11	2.41	0.48
10:AK:40:ALA:HB2	10:AK:45:ILE:HG23	1.96	0.48
10:AK:41:ARG:CB	10:AK:41:ARG:HH11	2.27	0.48
1:AA:1371:G:OP2	11:AL:11:LYS:CE	2.62	0.48
11:AL:9:ARG:HD2	11:AL:14:VAL:CG1	2.43	0.48
12:AM:79:ARG:O	12:AM:81:THR:N	2.47	0.48
13:AN:81:ASP:HA	13:AN:107:SER:O	2.14	0.48
14:AO:68:ALA:HB1	14:AO:99:HIS:CA	2.43	0.48
14:AO:8:ASN:HD22	14:AO:8:ASN:N	2.09	0.48
15:AP:102:ARG:HG3	15:AP:104:ARG:HB3	1.96	0.48
16:AQ:29:ARG:HB2	16:AQ:40:CYS:HB3	1.96	0.48
18:AS:19:ILE:HG13	18:AS:38:TYR:CA	2.40	0.48
20:AU:81:PHE:O	20:AU:82:THR:HB	2.14	0.48
21:AV:22:LEU:HA	21:AV:25:LYS:HZ1	1.79	0.48
22:AW:54:LYS:N	22:AW:100:ILE:HD11	2.28	0.48
1:AA:333:G:C4'	22:AW:16:HIS:HD2	2.25	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AW:42:GLN:O	22:AW:45:GLN:N	2.47	0.48
48:B1:33:GLN:O	48:B1:36:ILE:HG22	2.13	0.48
48:B1:38:GLN:H	48:B1:41:GLN:HE21	1.51	0.48
50:B3:65:ASP:HA	50:B3:68:ARG:HH12	1.77	0.48
51:B4:50:GLY:O	51:B4:57:VAL:HG22	2.14	0.48
52:B5:19:ARG:C	52:B5:43:CYS:SG	2.87	0.48
24:BA:469:G:N1	53:B6:40:TRP:NE1	2.52	0.48
24:BA:1013:C:H2'	24:BA:1014:U:C6	2.49	0.48
24:BA:1050:A:C8	24:BA:1051:G:H8	2.32	0.48
24:BA:1225:C:C4	24:BA:1226:G:N1	2.82	0.48
24:BA:1236:G:O2'	24:BA:1237:A:O4'	2.20	0.48
24:BA:1348:G:C2'	24:BA:1349:A:O5'	2.62	0.48
24:BA:1633:G:C5	24:BA:1635:G:N1	2.81	0.48
24:BA:1697:G:O6	24:BA:1698:A:N1	2.47	0.48
24:BA:1761:C:H5''	24:BA:1762:A:C2	2.49	0.48
24:BA:1778:U:H2'	24:BA:1779:U:C5	2.48	0.48
24:BA:1819:A:H3'	27:BD:178:PRO:CB	2.29	0.48
24:BA:18:C:O5'	24:BA:18:C:C6	2.64	0.48
24:BA:2044:C:C4	24:BA:2625:G:C2	3.01	0.48
24:BA:2048:G:C2'	24:BA:2049:G:O5'	2.61	0.48
24:BA:189:G:N2	24:BA:206:U:H5	2.12	0.48
24:BA:1854:A:H1'	24:BA:2087:G:H21	1.77	0.48
24:BA:2232:U:C2'	24:BA:2233:U:C5'	2.92	0.48
24:BA:2307:G:OP2	24:BA:2307:G:O4'	2.31	0.48
24:BA:2476:A:N7	24:BA:2477:C:C5	2.82	0.48
24:BA:2497:A:C8	24:BA:2497:A:C3'	2.96	0.48
24:BA:24:G:C6	24:BA:25:U:O4	2.67	0.48
24:BA:2527:C:H2'	24:BA:2528:U:H6	1.79	0.48
24:BA:2528:U:C2	24:BA:2536:G:N2	2.82	0.48
24:BA:2543:G:N2	24:BA:2765:A:N3	2.62	0.48
24:BA:2640:G:C4	24:BA:2641:G:C8	3.01	0.48
24:BA:2733:A:H2'	24:BA:2734:A:C4'	2.43	0.48
24:BA:2805:G:C3'	24:BA:2807:G:C5'	2.84	0.48
24:BA:2864:G:C2	24:BA:2865:U:C2	3.02	0.48
24:BA:289:A:C5	24:BA:351:G:O6	2.65	0.48
24:BA:318:C:C2	24:BA:334:C:N3	2.82	0.48
24:BA:247:G:C4'	24:BA:386:G:C2	2.95	0.48
24:BA:35:G:O4'	24:BA:454:A:C1'	2.62	0.48
24:BA:501:A:N7	24:BA:502:A:N6	2.61	0.48
24:BA:514:A:C2'	24:BA:515:A:H5'	2.44	0.48
24:BA:70:G:H4'	24:BA:71:A:H5'	1.89	0.48
24:BA:717:G:N2	24:BA:718:A:H1'	2.27	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:733:G:C5	24:BA:761:A:C5	3.01	0.48
24:BA:774:A:C1'	24:BA:775:G:C8	2.95	0.48
24:BA:586:A:H61	24:BA:810:U:H5'	1.78	0.48
24:BA:917:A:H2'	24:BA:918:A:C5'	2.37	0.48
24:BA:955:C:H5''	37:BP:87:LYS:CD	2.44	0.48
24:BA:979:G:C8	24:BA:981:A:OP2	2.66	0.48
24:BA:9:U:C2'	24:BA:9:U:O2	2.62	0.48
25:BB:100:G:H2'	25:BB:101:A:O4'	2.13	0.48
25:BB:71:C:C2'	25:BB:72:G:C5'	2.64	0.48
25:BB:85:G:C2	25:BB:86:G:C4	3.01	0.48
27:BD:159:ALA:HB1	27:BD:198:ASN:O	2.14	0.48
27:BD:80:ALA:O	27:BD:81:ALA:CB	2.61	0.48
24:BA:1658:C:OP1	28:BE:134:ILE:CD1	2.57	0.48
28:BE:7:VAL:CG1	28:BE:196:VAL:HG23	2.32	0.48
28:BE:4:ILE:O	28:BE:27:LEU:HD13	2.14	0.48
28:BE:85:ASN:C	28:BE:87:GLU:N	2.67	0.48
28:BE:8:LYS:CE	40:BS:3:ARG:HG3	2.44	0.48
24:BA:600:G:C1'	29:BF:105:VAL:HG21	2.43	0.48
30:BG:102:PHE:HD2	30:BG:106:LEU:HD12	1.71	0.48
30:BG:1:MET:HB3	30:BG:2:PRO:HD2	1.95	0.48
30:BG:36:LYS:HZ3	30:BG:38:VAL:HG22	1.79	0.48
30:BG:75:LYS:HA	30:BG:84:LYS:HG3	1.95	0.48
30:BG:94:LEU:N	30:BG:94:LEU:CD1	2.76	0.48
31:BH:13:LYS:CE	31:BH:80:SER:HA	2.41	0.48
24:BA:2745:C:C1'	31:BH:143:GLN:HG2	2.42	0.48
31:BH:35:VAL:CG2	31:BH:75:ALA:CB	2.91	0.48
33:BL:41:PHE:CE2	33:BL:55:VAL:HB	2.48	0.48
34:BM:17:ASP:OD1	34:BM:17:ASP:C	2.51	0.48
34:BM:21:LYS:HD3	34:BM:26:LEU:HD22	1.96	0.48
34:BM:30:ILE:HG22	34:BM:34:LEU:HD11	1.96	0.48
34:BM:12:ARG:CD	34:BM:50:ASP:OD1	2.62	0.48
34:BM:87:LEU:HD23	34:BM:88:GLU:CD	2.34	0.48
35:BN:39:ILE:CD1	35:BN:59:LYS:HE3	2.44	0.48
36:BO:101:VAL:HG23	36:BO:101:VAL:O	2.12	0.48
37:BP:112:GLU:HA	37:BP:115:MET:HB2	1.95	0.48
24:BA:2723:C:HO2'	38:BQ:2:ARG:HA	1.78	0.48
40:BS:109:GLU:CD	40:BS:110:ILE:H	2.17	0.48
40:BS:30:VAL:CG2	40:BS:32:TYR:HE2	2.24	0.48
40:BS:67:SER:HA	40:BS:75:ILE:HG22	1.95	0.48
41:BT:8:VAL:N	41:BT:11:ARG:NH2	2.62	0.48
41:BT:16:LYS:HG2	41:BT:17:ILE:N	2.26	0.48
42:BU:5:VAL:CG1	42:BU:37:VAL:CG2	2.90	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BT:47:TYR:CE2	42:BU:75:PHE:HB3	2.48	0.48
24:BA:1266:G:C4	43:BV:15:ARG:NH1	2.82	0.48
43:BV:25:ARG:CZ	43:BV:74:ALA:O	2.62	0.48
45:BX:53:PRO:O	45:BX:54:LYS:C	2.51	0.48
46:BY:127:LYS:CA	46:BY:164:ALA:H	2.23	0.48
46:BY:50:GLN:O	46:BY:52:SER:N	2.32	0.48
46:BY:80:ARG:HB2	46:BY:81:ARG:H	1.37	0.48
25:BB:75:G:N2	46:BY:87:ASP:OD1	2.46	0.48
32:BK:127:VAL:CA	32:BK:140:LEU:O	2.53	0.48
24:BA:2175:C:O2	24:BA:2175:C:H2'	2.12	0.48
26:BC:127:LEU:HB3	26:BC:131:LEU:HD11	1.96	0.48
26:BC:32:LEU:HD13	26:BC:220:PRO:HB2	1.95	0.48
6:AG:43:HIS:ND1	6:AG:46:LYS:HE3	2.29	0.48
1:AA:76:G:H2'	1:AA:77:C:C6	2.48	0.48
1:AA:1129:C:C5'	1:AA:1130:A:OP1	2.51	0.48
1:AA:1144:G:N2	1:AA:1146:A:N7	2.62	0.48
1:AA:1145:C:O2'	1:AA:1146:A:O5'	2.32	0.48
1:AA:1147:C:C2	1:AA:1148:U:C5	3.02	0.48
1:AA:1178:G:N2	1:AA:1180:A:O5'	2.47	0.48
1:AA:1052:U:OP2	1:AA:1200:C:O2	2.31	0.48
1:AA:1049:U:H1'	1:AA:1201:A:H8	1.76	0.48
1:AA:1261:A:H3'	1:AA:1262:C:C6	2.48	0.48
1:AA:1261:A:H5'	1:AA:1284:C:OP1	2.14	0.48
1:AA:1347:G:H22	1:AA:1373:G:H3'	1.77	0.48
1:AA:1388:C:O2'	1:AA:1389:C:H5'	2.13	0.48
1:AA:1413:A:N6	1:AA:1488:G:C5	2.80	0.48
1:AA:1443:G:P	1:AA:1446:A:OP1	2.71	0.48
1:AA:1480:G:H2'	1:AA:1481:U:C5'	2.43	0.48
1:AA:1486:G:H2'	1:AA:1487:G:O4'	2.12	0.48
1:AA:236:G:C3'	1:AA:237:C:C6	2.91	0.48
1:AA:293:G:C4	1:AA:294:U:C5	3.02	0.48
1:AA:49:U:O4	1:AA:362:G:N2	2.47	0.48
1:AA:440:A:N6	1:AA:494:U:C6	2.80	0.48
1:AA:536:C:O5'	1:AA:536:C:H6	1.96	0.48
1:AA:552:U:C2	1:AA:553:A:C8	3.02	0.48
1:AA:601:C:O2'	1:AA:602:A:H5'	2.14	0.48
1:AA:729:A:N6	17:AR:51:HIS:CD2	2.82	0.48
1:AA:910:C:HO2'	1:AA:911:U:H5'	1.78	0.48
3:AC:19:G:N2	3:AC:57:G:N3	2.62	0.48
5:AF:114:PRO:O	5:AF:117:ALA:HB3	2.14	0.48
5:AF:110:ASN:ND2	5:AF:144:SER:OG	2.46	0.48
6:AG:104:VAL:CG2	6:AG:105:VAL:N	2.76	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:106:TYR:CE1	6:AG:112:VAL:C	2.87	0.48
7:AH:105:VAL:HG13	7:AH:132:ALA:HA	1.96	0.48
7:AH:121:LYS:CE	7:AH:122:GLU:N	2.77	0.48
7:AH:40:ARG:CA	7:AH:68:GLU:OE1	2.61	0.48
8:AI:12:PRO:HG2	8:AI:13:ASN:ND2	2.28	0.48
9:AJ:129:GLU:OE1	9:AJ:131:LYS:HD3	2.14	0.48
10:AK:3:THR:HB	10:AK:4:ASP:OD1	2.14	0.48
10:AK:49:GLU:OE2	10:AK:51:VAL:HG23	2.14	0.48
10:AK:5:PRO:O	10:AK:6:ILE:O	2.32	0.48
11:AL:82:ALA:CB	11:AL:101:PHE:CE1	2.97	0.48
13:AN:119:CYS:O	13:AN:120:ARG:C	2.52	0.48
13:AN:60:ALA:O	13:AN:63:LEU:N	2.47	0.48
14:AO:77:LEU:CD1	14:AO:107:ALA:HB2	2.39	0.48
14:AO:24:VAL:CG1	14:AO:26:ALA:H	2.26	0.48
5:AF:29:TYR:CD1	16:AQ:36:PHE:HZ	2.32	0.48
17:AR:62:GLN:HA	17:AR:65:ARG:HH12	1.77	0.48
17:AR:6:GLU:C	17:AR:8:LYS:N	2.64	0.48
19:AT:18:THR:O	19:AT:19:VAL:HG13	2.13	0.48
21:AV:68:GLY:O	21:AV:69:HIS:ND1	2.46	0.48
22:AW:30:LYS:HB2	22:AW:30:LYS:NZ	2.29	0.48
22:AW:81:LYS:HB3	22:AW:85:MET:HE3	1.95	0.48
49:B2:50:VAL:CG2	49:B2:53:LEU:HD12	2.44	0.48
24:BA:1264:G:H5'	51:B4:15:ARG:HH11	1.79	0.48
54:B7:8:LYS:NZ	54:B7:11:LYS:NZ	2.61	0.48
54:B7:27:THR:N	54:B7:44:LYS:HZ1	2.11	0.48
24:BA:1002:G:H2'	24:BA:1003:G:O5'	2.13	0.48
24:BA:1156:A:OP1	41:BT:55:ARG:NH2	2.45	0.48
24:BA:49:A:N1	24:BA:120:U:O4	2.46	0.48
24:BA:1224:G:O6	24:BA:1225:C:N3	2.46	0.48
24:BA:1255:U:O2	29:BF:72:ARG:HB3	2.14	0.48
24:BA:1277:G:C2'	24:BA:1278:A:H5'	2.43	0.48
24:BA:1314:C:H2'	24:BA:1315:C:H5'	1.93	0.48
24:BA:1342:A:P	24:BA:1342:A:H8	2.37	0.48
24:BA:1689:A:C6	24:BA:1700:A:C2	3.02	0.48
24:BA:171:G:N2	24:BA:172:C:N3	2.62	0.48
24:BA:1746:G:C2'	24:BA:1747:G:O4'	2.61	0.48
24:BA:1781:C:H2'	24:BA:1782:C:OP2	2.12	0.48
24:BA:1364:G:H5''	24:BA:1809:A:N3	2.29	0.48
24:BA:1890:A:O5'	24:BA:1890:A:H8	1.96	0.48
24:BA:2021:C:N4	41:BT:28:ARG:HH12	2.12	0.48
24:BA:219:G:H2'	24:BA:220:G:O4'	2.14	0.48
24:BA:2255:G:C4	24:BA:2256:G:C8	3.01	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:919:G:H21	24:BA:2268:A:H5''	1.77	0.48
24:BA:230:U:C2'	24:BA:231:C:O4'	2.62	0.48
24:BA:236:C:C2'	24:BA:237:C:O5'	2.62	0.48
24:BA:2389:G:OP1	24:BA:2390:U:H5'	2.13	0.48
24:BA:2456:C:C2'	24:BA:2457:U:H5'	2.44	0.48
24:BA:2470:G:C2	24:BA:2471:C:C5	3.01	0.48
24:BA:2517:C:HO2'	24:BA:2518:A:P	2.36	0.48
24:BA:2551:C:H2'	24:BA:2552:U:O4'	2.14	0.48
24:BA:2604:U:H2'	24:BA:2605:U:C6	2.48	0.48
24:BA:2051:A:N1	24:BA:2614:A:C6	2.82	0.48
24:BA:2645:G:H4'	24:BA:2732:G:HO2'	1.72	0.48
24:BA:2718:G:C6	24:BA:2719:G:C6	3.01	0.48
24:BA:2728:U:H2'	24:BA:2729:G:H8	1.79	0.48
24:BA:2813:A:O2'	24:BA:2814:C:H5'	2.14	0.48
24:BA:2854:G:C2	24:BA:2864:G:C5	3.02	0.48
24:BA:2857:G:N1	24:BA:2861:G:C6	2.82	0.48
24:BA:301:G:C2'	24:BA:302:C:C6	2.89	0.48
24:BA:308:G:C2	24:BA:309:G:C1'	2.81	0.48
24:BA:270(C):C:P	24:BA:365:C:HO2'	2.34	0.48
24:BA:372:G:OP2	24:BA:373:U:OP2	2.31	0.48
24:BA:443:A:OP1	29:BF:46:ARG:O	2.32	0.48
24:BA:452:G:N1	24:BA:458:G:N3	2.57	0.48
24:BA:531:C:C2'	24:BA:532:A:OP1	2.62	0.48
24:BA:556:G:H2'	24:BA:557:U:O5'	2.12	0.48
24:BA:597:U:C2	24:BA:598:G:N7	2.82	0.48
24:BA:628:G:N1	24:BA:629:G:C6	2.81	0.48
24:BA:649:G:O2'	54:B7:17:THR:HG21	2.14	0.48
24:BA:637:A:C2	24:BA:651:G:O3'	2.67	0.48
24:BA:76:C:H4'	48:B1:54:ARG:NH2	2.27	0.48
24:BA:892:G:H2'	24:BA:893:C:C6	2.48	0.48
24:BA:945:A:C2'	24:BA:945:A:N3	2.76	0.48
24:BA:959:A:N6	24:BA:960:A:N6	2.61	0.48
24:BA:972:G:OP1	24:BA:974(A):C:C3'	2.61	0.48
24:BA:988:A:H2	24:BA:989:G:N2	2.12	0.48
25:BB:73:A:N7	25:BB:104:A:C5	2.82	0.48
25:BB:85:G:C2	25:BB:86:G:C8	3.02	0.48
27:BD:149:PRO:HG3	27:BD:189:CYS:SG	2.54	0.48
27:BD:233:HIS:HD1	27:BD:233:HIS:N	2.11	0.48
24:BA:2596:U:C2'	27:BD:242:ARG:NE	2.76	0.48
24:BA:1901:A:O3'	27:BD:244:ARG:NH2	2.47	0.48
27:BD:9:TYR:CE1	27:BD:25:THR:CG2	2.96	0.48
27:BD:183:ARG:NE	27:BD:268:ARG:HD2	2.29	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:60:ARG:CB	27:BD:62:TYR:CE2	2.96	0.48
28:BE:48:GLN:H	28:BE:48:GLN:NE2	2.11	0.48
28:BE:8:LYS:NZ	40:BS:3:ARG:CG	2.77	0.48
29:BF:156:LEU:N	29:BF:156:LEU:HD23	2.29	0.48
29:BF:52:LYS:NZ	29:BF:88:VAL:HG21	2.28	0.48
30:BG:107:LEU:HD12	30:BG:111:LEU:HD22	1.94	0.48
30:BG:103:LEU:CD2	30:BG:176:LEU:HD11	2.42	0.48
30:BG:35:GLU:OE1	30:BG:36:LYS:HB3	2.14	0.48
30:BG:36:LYS:HZ2	30:BG:160:VAL:HG23	1.78	0.48
24:BA:2746:U:H5'	31:BH:138:LYS:O	2.14	0.48
31:BH:137:ASP:O	31:BH:141:VAL:HG23	2.13	0.48
31:BH:69:ARG:HB2	31:BH:69:ARG:NH2	2.27	0.48
34:BM:18:ALA:O	34:BM:21:LYS:HB2	2.14	0.48
34:BM:88:GLU:H	34:BM:88:GLU:CD	2.17	0.48
34:BM:89:LYS:HG2	34:BM:90:MET:H	1.75	0.48
35:BN:106:LEU:CD1	35:BN:107:ARG:N	2.75	0.48
36:BO:117:GLU:N	36:BO:117:GLU:CD	2.67	0.48
36:BO:127:ALA:HB3	36:BO:130:PHE:CE2	2.48	0.48
36:BO:76:LYS:HB3	36:BO:113:LYS:O	2.13	0.48
41:BT:48:ALA:C	41:BT:52:ARG:HE	2.16	0.48
41:BT:88:ILE:O	42:BU:52:VAL:CA	2.58	0.48
42:BU:4:ILE:HD12	42:BU:4:ILE:H	1.77	0.48
43:BV:11:ARG:HB3	43:BV:11:ARG:CZ	2.43	0.48
43:BV:6:ILE:HG12	43:BV:104:THR:CA	2.29	0.48
46:BY:122:ARG:NH2	46:BY:169:GLU:OE1	2.47	0.48
46:BY:30:ASN:HB2	46:BY:90:VAL:CG2	2.28	0.48
47:BZ:27:GLU:CB	47:BZ:69:PHE:CE1	2.97	0.48
32:BK:130:TYR:O	32:BK:132:PRO:CD	2.57	0.48
32:BK:126:TYR:O	32:BK:142:VAL:HG23	2.14	0.48
3:AD:19:G:H5'	3:AD:20:U:O4	2.13	0.48
24:BA:2126:A:C4'	24:BA:2127:G:O5'	2.62	0.48
24:BA:2157:G:O2'	24:BA:2158:A:OP1	2.27	0.48
24:BA:1488:G:C2'	24:BA:1489:U:C5'	2.77	0.48
48:B1:6:GLU:N	48:B1:6:GLU:CD	2.66	0.48
24:BA:3:U:H6	24:BA:3:U:O5'	1.96	0.48
48:B1:65:GLN:CA	48:B1:65:GLN:NE2	2.77	0.48
2:A1:41:U:H2'	2:A1:42:U:H6	1.78	0.48
1:AA:1054:C:OP2	1:AA:1197:G:OP2	2.30	0.48
1:AA:1065:U:O2'	1:AA:1066:C:P	2.71	0.48
1:AA:1181:G:H2'	1:AA:1182:G:H5'	1.96	0.48
1:AA:1193:G:O2'	1:AA:1194:U:H5'	2.13	0.48
1:AA:1206:G:H2'	1:AA:1207:G:C8	2.49	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1273:G:C3'	1:AA:1274:G:H8	2.26	0.48
1:AA:1299:A:N7	1:AA:1301:U:N1	2.61	0.48
1:AA:1323:G:C6	1:AA:1324:A:N6	2.82	0.48
1:AA:1521:G:O2'	1:AA:1522:U:C5'	2.58	0.48
1:AA:174:C:N3	1:AA:175:C:C5	2.82	0.48
1:AA:225:C:O2	1:AA:226:G:O4'	2.32	0.48
1:AA:294:U:H2'	1:AA:295:C:C5	2.49	0.48
1:AA:383:A:H2'	1:AA:384:G:C4'	2.44	0.48
1:AA:522:C:H5''	14:AO:120:TYR:HH	1.75	0.48
1:AA:533:A:H3'	1:AA:534:U:H5''	1.96	0.48
1:AA:515:G:C2	1:AA:537:G:C2	3.02	0.48
1:AA:587:G:H1'	1:AA:755:G:C2	2.41	0.48
1:AA:656:C:H2'	1:AA:657:G:C5'	2.44	0.48
1:AA:692:U:C2	1:AA:694:A:H3'	2.48	0.48
1:AA:738:C:OP1	8:AI:4:TYR:OH	2.32	0.48
1:AA:658:G:C6	1:AA:749:C:N4	2.81	0.48
1:AA:859:A:H2'	1:AA:860:A:C4'	2.44	0.48
1:AA:87:A:N7	1:AA:88:C:C5	2.81	0.48
1:AA:982:U:H1'	1:AA:983:A:H62	1.78	0.48
3:AB:52:G:C6	3:AB:63:G:O6	2.67	0.48
3:AC:41:C:H2'	3:AC:42:C:O5'	2.13	0.48
3:AC:67:C:C2	3:AC:68:C:C5	3.02	0.48
4:AE:59:GLU:HB2	4:AE:225:ALA:HB2	1.94	0.48
4:AE:36:ARG:HE	4:AE:36:ARG:HA	1.79	0.48
5:AF:116:VAL:HG13	5:AF:119:ARG:HD3	1.96	0.48
5:AF:5:ILE:CG2	12:AM:51:ARG:HH22	2.27	0.48
5:AF:64:VAL:HG12	5:AF:64:VAL:O	2.13	0.48
6:AG:128:VAL:HB	6:AG:132:ARG:HA	1.95	0.48
6:AG:51:PRO:O	6:AG:52:SER:C	2.50	0.48
6:AG:75:PHE:HE1	6:AG:97:LEU:CD2	2.27	0.48
6:AG:205:GLU:OE1	7:AH:100:VAL:HB	2.14	0.48
7:AH:69:VAL:HG12	7:AH:76:ILE:HD11	1.96	0.48
8:AI:41:GLU:N	8:AI:63:TYR:HD1	2.11	0.48
8:AI:30:LEU:HD23	8:AI:75:LEU:CD1	2.43	0.48
10:AK:103:VAL:CB	10:AK:108:GLY:C	2.81	0.48
10:AK:111:ILE:CD1	10:AK:136:GLU:HA	2.44	0.48
10:AK:112:LEU:HG	10:AK:113:SER:N	2.28	0.48
10:AK:17:THR:CB	10:AK:18:ARG:NH2	2.77	0.48
11:AL:37:PHE:O	11:AL:40:LEU:HB2	2.12	0.48
13:AN:33:THR:HB	13:AN:38:ASN:O	2.14	0.48
14:AO:11:VAL:HG22	19:AT:32:TYR:CD1	2.47	0.48
15:AP:71:ARG:O	15:AP:72:ALA:C	2.50	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AP:86:CYS:SG	15:AP:89:GLY:HA3	2.53	0.48
16:AQ:48:ALA:O	16:AQ:51:GLY:N	2.46	0.48
20:AU:66:LEU:CD1	20:AU:67:ALA:H	2.22	0.48
21:AV:51:VAL:CG2	21:AV:60:VAL:HG21	2.43	0.48
54:B7:50:LEU:C	54:B7:53:PRO:HD2	2.33	0.48
24:BA:1027:A:C6	24:BA:1126:A:N3	2.81	0.48
24:BA:1139:G:OP1	34:BM:23:LEU:HB2	2.13	0.48
24:BA:1247:A:O2'	24:BA:1248:G:O5'	2.30	0.48
24:BA:1281:G:H2'	24:BA:1282:U:C5	2.46	0.48
24:BA:1300:U:H2'	24:BA:1626:G:C2	2.47	0.48
24:BA:1316:U:H2'	24:BA:1317:A:H8	1.78	0.48
24:BA:1359:A:C4	24:BA:1373:A:C2	3.02	0.48
24:BA:1394:U:H5''	24:BA:1603:A:O3'	2.13	0.48
24:BA:1408:C:C2	24:BA:1409:C:C5	3.01	0.48
24:BA:1456:G:N3	24:BA:1457:A:C8	2.81	0.48
24:BA:1525:G:C2'	24:BA:1526:G:O5'	2.62	0.48
24:BA:1544:C:C2'	24:BA:1545:A:O4'	2.62	0.48
24:BA:1575:C:C4	24:BA:1576:U:N3	2.82	0.48
24:BA:1612:C:H4'	53:B6:5:TRP:CD1	2.49	0.48
24:BA:1992:G:C2'	24:BA:1993:U:H5	2.27	0.48
24:BA:2261:C:O5'	24:BA:2261:C:C6	2.67	0.48
24:BA:2305:A:H1'	30:BG:155:MET:N	2.28	0.48
24:BA:249:C:H5	24:BA:2395:C:OP1	1.97	0.48
24:BA:2423:U:O2'	24:BA:2425:A:C3'	2.61	0.48
24:BA:2031:A:N6	24:BA:2498:C:H1'	2.25	0.48
3:AB:74:C:N3	24:BA:2555:U:C2	2.80	0.48
24:BA:2707:G:H2'	24:BA:2708:G:O5'	2.13	0.48
24:BA:270(T):G:H2'	24:BA:270(T):G:N3	2.29	0.48
24:BA:2746:U:C4	24:BA:2756:U:C5	2.98	0.48
24:BA:2827:C:H2'	24:BA:2828:C:C5'	2.43	0.48
24:BA:299:A:HO2'	24:BA:319:C:C2'	2.21	0.48
24:BA:322:A:C4'	24:BA:341:G:H5'	2.44	0.48
24:BA:354:G:O2'	24:BA:355:G:C5'	2.60	0.48
24:BA:383:U:C2	24:BA:385:C:C4	3.02	0.48
24:BA:403:U:C5'	24:BA:404:C:OP1	2.62	0.48
24:BA:468:G:C8	24:BA:469:G:C8	3.01	0.48
24:BA:510:C:P	24:BA:512:G:N1	2.74	0.48
24:BA:589:C:O2'	24:BA:590:A:H5'	2.13	0.48
24:BA:606:U:OP2	24:BA:606:U:C5	2.67	0.48
24:BA:61:G:C2	24:BA:62:C:C2	3.02	0.48
24:BA:673:C:C5'	29:BF:81:PRO:HG2	2.44	0.48
24:BA:685:A:N3	24:BA:688:U:N3	2.62	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:702:G:C2	24:BA:731:C:C2	3.02	0.48
24:BA:851:U:H1'	49:B2:46:ASN:HB2	1.96	0.48
24:BA:879:G:C2	24:BA:880:G:C8	3.01	0.48
25:BB:100:G:C6	25:BB:101:A:N6	2.82	0.48
25:BB:48:A:OP1	39:BR:92:TYR:CG	2.66	0.48
27:BD:123:ALA:HB3	27:BD:131:LEU:HD22	1.94	0.48
24:BA:1818:U:C4	27:BD:156:ALA:HB2	2.49	0.48
27:BD:149:PRO:HD3	27:BD:186:HIS:CE1	2.49	0.48
27:BD:226:MET:O	27:BD:227:ASN:C	2.53	0.48
27:BD:251:GLY:HA2	27:BD:255:LYS:HZ2	1.77	0.48
27:BD:6:PHE:C	27:BD:28:GLU:OE1	2.52	0.48
27:BD:45:ASN:C	27:BD:46:GLN:CG	2.81	0.48
27:BD:66:ASP:OD2	27:BD:103:ARG:NH1	2.45	0.48
28:BE:60:ASN:OD1	28:BE:61:ARG:N	2.47	0.48
28:BE:69:LYS:O	28:BE:70:ALA:O	2.32	0.48
28:BE:7:VAL:O	28:BE:193:GLY:N	2.47	0.48
29:BF:9:ILE:HG22	29:BF:10:PRO:N	2.28	0.48
29:BF:22:ALA:HB1	29:BF:115:ALA:CB	2.43	0.48
29:BF:181:LEU:CD1	29:BF:181:LEU:N	2.76	0.48
29:BF:123:LEU:HB2	29:BF:193:VAL:HA	1.95	0.48
29:BF:41:LEU:C	29:BF:41:LEU:HD12	2.34	0.48
30:BG:57:ALA:HA	30:BG:67:LYS:CA	2.44	0.48
31:BH:11:VAL:HG11	31:BH:17:VAL:HG11	1.94	0.48
31:BH:38:SER:CB	31:BH:41:MET:HG3	2.13	0.48
32:BK:24:GLY:O	32:BK:27:ARG:CB	2.62	0.48
33:BL:79:ARG:HG2	33:BL:136:VAL:HG21	1.94	0.48
34:BM:104:LYS:O	34:BM:105:GLY:C	2.52	0.48
34:BM:126:PRO:HB2	34:BM:127:ASP:OD2	2.13	0.48
34:BM:22:THR:CG2	34:BM:61:ARG:NH1	2.77	0.48
35:BN:113:LYS:HZ1	35:BN:117:LEU:HB2	1.79	0.48
35:BN:59:LYS:CD	35:BN:59:LYS:N	2.77	0.48
35:BN:6:THR:HA	35:BN:7:TYR:CE1	2.49	0.48
35:BN:86:ILE:CG2	35:BN:90:GLN:HA	2.43	0.48
36:BO:97:PRO:CA	36:BO:102:ARG:NE	2.75	0.48
24:BA:1244:G:C5'	36:BO:9:ASN:HB2	2.41	0.48
37:BP:11:LYS:HZ3	37:BP:73:PRO:HB3	1.78	0.48
37:BP:130:LYS:CE	37:BP:131:ILE:N	2.74	0.48
24:BA:955:C:H5''	37:BP:87:LYS:HD2	1.95	0.48
38:BQ:72:ASP:OD2	38:BQ:74:LYS:HB2	2.14	0.48
38:BQ:88:ARG:O	38:BQ:89:ASP:HB3	2.13	0.48
39:BR:38:GLN:CD	39:BR:40:ILE:HD11	2.33	0.48
24:BA:2320:A:C6	39:BR:4:LEU:HD13	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BR:73:LEU:HA	39:BR:76:LYS:CD	2.42	0.48
41:BT:61:TRP:CZ3	41:BT:93:LYS:C	2.87	0.48
41:BT:72:HIS:CD2	41:BT:110:VAL:HG21	2.49	0.48
43:BV:13:SER:CB	43:BV:16:LYS:HE2	2.43	0.48
45:BX:26:LYS:CE	45:BX:36:ALA:HB3	2.44	0.48
46:BY:151:HIS:CD2	46:BY:170:THR:HA	2.48	0.48
47:BZ:53:MET:HE3	47:BZ:58:THR:C	2.33	0.48
32:BK:50:ARG:HA	32:BK:53:ALA:CB	2.44	0.48
32:BK:87:LYS:HB3	32:BK:121:LYS:HE3	1.95	0.48
24:BA:2133:G:C6	24:BA:2157:G:H1'	2.49	0.48
26:BC:115:ALA:CB	26:BC:123:VAL:HG21	2.43	0.48
24:BA:1586:A:O2'	24:BA:1587:A:N7	2.45	0.48
39:BR:56:LEU:HB3	39:BR:59:LYS:HZ2	1.78	0.48
24:BA:276:A:H2'	24:BA:276:A:N3	2.28	0.48
1:AA:102:G:C5	1:AA:103:C:C5	3.02	0.48
1:AA:1213:A:C5	1:AA:1215:G:C6	3.01	0.48
1:AA:1326:C:H2'	1:AA:1327:C:C6	2.45	0.48
1:AA:1346:A:N6	1:AA:1375:A:OP2	2.40	0.48
1:AA:1389:C:C2'	1:AA:1390:U:C5'	2.88	0.48
1:AA:1431:C:N4	1:AA:1469:G:N1	2.56	0.48
1:AA:1433:A:N1	1:AA:1434:A:C2	2.82	0.48
1:AA:1476:G:C4	1:AA:1477:C:C5	3.02	0.48
1:AA:279:A:H4'	1:AA:280:C:O5'	2.14	0.48
1:AA:298:A:N6	1:AA:299:G:C2	2.82	0.48
1:AA:355:C:H42	1:AA:356:A:N6	2.12	0.48
1:AA:47:C:C5	1:AA:365:U:H2'	2.49	0.48
1:AA:414:A:N7	1:AA:430:A:N6	2.62	0.48
1:AA:439:A:C2	1:AA:496:A:H1'	2.49	0.48
1:AA:538:G:O2'	1:AA:539:A:H5'	2.14	0.48
1:AA:682:G:C6	1:AA:709:G:C6	3.02	0.48
1:AA:748:C:O2'	1:AA:749:C:H5'	2.14	0.48
1:AA:754:C:H5'	1:AA:755:G:H8	1.69	0.48
1:AA:769:G:O2'	1:AA:770:C:H5'	2.14	0.48
1:AA:832:C:C4	1:AA:833:U:O4	2.66	0.48
1:AA:922:G:H4'	7:AH:20:GLN:CA	2.27	0.48
1:AA:925:G:O2'	1:AA:927:G:OP1	2.19	0.48
3:AC:3:C:O2'	3:AC:4:C:O5'	2.31	0.48
4:AE:193:ASP:CG	4:AE:196:LEU:HD11	2.34	0.48
4:AE:187:LEU:HD23	4:AE:201:ILE:O	2.14	0.48
4:AE:76:GLN:O	4:AE:77:ALA:CB	2.62	0.48
4:AE:81:VAL:HB	4:AE:94:ASN:OD1	2.14	0.48
5:AF:11:ARG:O	5:AF:12:LEU:C	2.52	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:182:ILE:CD1	5:AF:203:PHE:CD1	2.97	0.48
5:AF:36:ASP:HA	5:AF:39:ILE:CD1	2.40	0.48
6:AG:200:GLU:HG3	6:AG:201:GLN:NE2	2.29	0.48
7:AH:74:GLY:O	7:AH:115:VAL:CG1	2.60	0.48
9:AJ:125:MET:O	9:AJ:126:ASP:C	2.52	0.48
9:AJ:38:LEU:C	9:AJ:41:ARG:HB2	2.34	0.48
10:AK:122:ARG:O	10:AK:125:ARG:HB3	2.14	0.48
10:AK:37:ARG:CD	10:AK:38:ILE:HD13	2.34	0.48
11:AL:4:TYR:HB3	11:AL:87:GLN:HB2	1.95	0.48
11:AL:27:THR:CG2	11:AL:62:TYR:CE1	2.97	0.48
13:AN:85:ARG:NE	13:AN:113:PRO:HD3	2.28	0.48
13:AN:22:HIS:CD2	13:AN:22:HIS:C	2.87	0.48
14:AO:33:ARG:HG2	14:AO:60:LEU:CD2	2.43	0.48
1:AA:1329:A:H5'	15:AP:29:ARG:HE	1.72	0.48
15:AP:39:ILE:HG21	15:AP:56:LEU:CD1	2.44	0.48
15:AP:66:LEU:O	15:AP:70:LEU:HB2	2.13	0.48
15:AP:69:GLU:C	15:AP:71:ARG:N	2.66	0.48
15:AP:88:ARG:NH2	15:AP:92:HIS:CD2	2.81	0.48
15:AP:92:HIS:CA	15:AP:98:VAL:HG21	2.44	0.48
18:AS:10:GLY:HA3	18:AS:14:ASN:O	2.14	0.48
1:AA:137:C:H1'	18:AS:62:VAL:HA	1.96	0.48
21:AV:9:VAL:HG11	21:AV:39:THR:HG21	1.96	0.48
22:AW:17:ARG:O	22:AW:20:LEU:CB	2.59	0.48
48:B1:22:GLU:O	48:B1:25:ARG:HB2	2.13	0.48
25:BB:83:G:H5'	49:B2:52:HIS:CE1	2.48	0.48
50:B3:64:GLY:O	50:B3:68:ARG:NH1	2.46	0.48
51:B4:10:LYS:HD2	51:B4:15:ARG:CZ	2.44	0.48
52:B5:17:LYS:HZ2	52:B5:50:ARG:CG	2.27	0.48
52:B5:19:ARG:CD	52:B5:19:ARG:N	2.75	0.48
52:B5:19:ARG:CG	52:B5:19:ARG:HH11	1.97	0.48
53:B6:9:ARG:O	53:B6:10:ARG:O	2.32	0.48
54:B7:16:ILE:CD1	54:B7:60:LEU:HD22	2.42	0.48
54:B7:37:SER:O	54:B7:41:ILE:HG13	2.13	0.48
55:B8:19:ARG:HG3	55:B8:19:ARG:O	2.14	0.48
24:BA:1059:G:C5	24:BA:1060:U:H1'	2.48	0.48
24:BA:1086:A:C2'	24:BA:1086:A:N3	2.75	0.48
24:BA:1091:G:N1	24:BA:1101:U:O4	2.47	0.48
24:BA:1152:C:O2'	24:BA:1153:C:H5'	2.13	0.48
24:BA:1153:C:N1	24:BA:1154:G:N7	2.61	0.48
24:BA:1182:A:OP2	24:BA:1182:A:O4'	2.32	0.48
24:BA:1258:C:C2	24:BA:1259:G:C8	3.02	0.48
24:BA:1270:C:C4'	24:BA:1271:G:H5'	2.33	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1298:C:C4'	24:BA:1302:A:N6	2.76	0.48
24:BA:1313:U:C2	24:BA:1314:C:C5	3.02	0.48
24:BA:1419:A:C5	24:BA:1421:G:C6	3.01	0.48
24:BA:1432:C:C2	24:BA:1433:U:C2	3.02	0.48
24:BA:1464:C:O2'	24:BA:1465:G:H5'	2.14	0.48
24:BA:1528:A:H8	24:BA:1529:A:C4	2.31	0.48
24:BA:1547:C:HO2'	24:BA:1548:C:H5'	1.75	0.48
24:BA:1607:C:C2'	24:BA:1608:A:OP2	2.62	0.48
24:BA:1693:U:O4	24:BA:1977:A:C5	2.67	0.48
24:BA:1689:A:C6	24:BA:1698:A:H2	2.27	0.48
24:BA:1801:G:C6	24:BA:2207:C:O4'	2.67	0.48
24:BA:1926:U:N3	24:BA:1929:G:N2	2.62	0.48
24:BA:1927:A:N7	24:BA:1928:A:C6	2.82	0.48
24:BA:1947:C:C2'	24:BA:1948:G:H5'	2.44	0.48
24:BA:572:A:H61	24:BA:2029:G:C1'	2.26	0.48
24:BA:2057:A:C2'	24:BA:2058:A:H8	2.23	0.48
24:BA:2081:C:N3	24:BA:2082:A:C8	2.82	0.48
24:BA:2287:A:N1	24:BA:2346:A:C6	2.82	0.48
24:BA:2305:A:C2'	30:BG:154:GLY:CA	2.89	0.48
24:BA:2309:A:C5	24:BA:2310:A:C5	3.02	0.48
24:BA:2289:G:N2	24:BA:2344:U:C6	2.82	0.48
24:BA:2350:C:O2'	24:BA:2351:G:P	2.71	0.48
24:BA:2358:G:C2	24:BA:2359:C:C6	3.01	0.48
24:BA:2405:G:O5'	24:BA:2405:G:H8	1.97	0.48
24:BA:2472:G:N2	24:BA:2477:C:OP1	2.33	0.48
24:BA:2545:G:O2'	24:BA:2546:U:H5'	2.14	0.48
24:BA:253:C:C2'	24:BA:254:G:C5'	2.91	0.48
24:BA:265:A:H2'	24:BA:266:G:C1'	2.44	0.48
24:BA:2693:A:O2'	24:BA:2848:G:C5'	2.61	0.48
24:BA:270(K):C:H5''	24:BA:270(L):U:C5	2.49	0.48
24:BA:270(L):U:O2'	24:BA:270(M):U:OP1	2.32	0.48
24:BA:2746:U:OP1	31:BH:142:GLY:HA3	2.14	0.48
24:BA:2816:C:H1'	24:BA:2831:G:N2	2.29	0.48
24:BA:2838:G:C5	24:BA:2839:G:C8	3.02	0.48
24:BA:2868:A:H2'	24:BA:2869:G:O4'	2.14	0.48
24:BA:425:G:C2	24:BA:426:C:C5	3.01	0.48
24:BA:454:A:C8	24:BA:454:A:H3'	2.49	0.48
24:BA:557:U:O3'	34:BM:112:LEU:CD2	2.61	0.48
24:BA:600:G:H4'	29:BF:105:VAL:HG13	1.96	0.48
24:BA:613:U:C5	24:BA:614:U:O2	2.65	0.48
24:BA:616:A:H1'	29:BF:180:GLY:CA	2.43	0.48
24:BA:791:C:H5'	24:BA:792:G:OP1	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:822:U:H2'	24:BA:823:G:H8	1.79	0.48
24:BA:837:C:H2'	24:BA:838:C:O5'	2.14	0.48
24:BA:86:C:H2'	24:BA:87:C:H6	1.78	0.48
24:BA:889:C:O2'	24:BA:890:A:H4'	2.14	0.48
24:BA:936:C:O2'	24:BA:937:U:O5'	2.32	0.48
25:BB:45:A:C6	25:BB:46:A:C4	3.02	0.48
24:BA:729:G:OP1	27:BD:19:ALA:HB1	2.14	0.48
27:BD:6:PHE:O	27:BD:28:GLU:OE1	2.31	0.48
27:BD:29:PRO:C	27:BD:31:LYS:H	2.17	0.48
24:BA:1569:A:O3'	27:BD:39:LYS:HE2	2.13	0.48
27:BD:85:ASP:CB	27:BD:87:ASN:ND2	2.77	0.48
27:BD:9:TYR:O	27:BD:10:THR:CB	2.61	0.48
28:BE:51:PHE:CD1	28:BE:51:PHE:C	2.87	0.48
28:BE:55:ASN:HA	28:BE:58:ARG:NH2	2.28	0.48
29:BF:18:ARG:C	29:BF:19:GLU:CG	2.77	0.48
29:BF:26:ALA:O	29:BF:112:MET:SD	2.72	0.48
29:BF:30:PRO:HG2	29:BF:31:HIS:H	1.78	0.48
29:BF:34:TRP:O	29:BF:38:ARG:HD2	2.13	0.48
30:BG:121:ASN:CG	30:BG:133:LEU:HD21	2.34	0.48
25:BB:57:A:O4'	30:BG:29:TRP:CZ3	2.67	0.48
32:BK:5:LEU:CD2	32:BK:17:GLN:O	2.62	0.48
32:BK:25:TYR:N	32:BK:25:TYR:CD2	2.80	0.48
32:BK:5:LEU:HD21	32:BK:18:VAL:N	2.29	0.48
34:BM:47:ALA:O	34:BM:48:MET:C	2.51	0.48
35:BN:64:ARG:HE	35:BN:67:LYS:CA	2.27	0.48
24:BA:1667:G:O5'	35:BN:7:TYR:CD1	2.66	0.48
36:BO:18:ARG:O	36:BO:20:GLY:N	2.42	0.48
36:BO:49:ARG:HA	36:BO:52:GLU:CG	2.43	0.48
36:BO:49:ARG:HG2	36:BO:49:ARG:NH2	2.20	0.48
37:BP:122:GLY:O	37:BP:124:LYS:N	2.46	0.48
38:BQ:96:ARG:CZ	38:BQ:117:VAL:HG23	2.44	0.48
38:BQ:39:PRO:HA	38:BQ:42:LYS:HB2	1.94	0.48
38:BQ:61:HIS:O	38:BQ:62:ALA:C	2.51	0.48
39:BR:24:LEU:H	39:BR:86:ALA:HB1	1.77	0.48
39:BR:9:ARG:HA	39:BR:9:ARG:HD3	1.51	0.48
40:BS:31:SER:HA	40:BS:32:TYR:CE1	2.49	0.48
40:BS:65:LYS:NZ	40:BS:75:ILE:HD13	2.28	0.48
41:BT:112:ARG:O	41:BT:115:ALA:N	2.47	0.48
24:BA:532:A:O2'	41:BT:28:ARG:HD3	2.14	0.48
41:BT:74:LEU:CG	41:BT:78:THR:HG21	2.43	0.48
41:BT:84:LYS:NZ	41:BT:90:VAL:HG11	2.29	0.48
41:BT:99:ALA:HB2	41:BT:106:PHE:CD1	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BU:15:GLU:CA	42:BU:100:ARG:NH1	2.72	0.48
42:BU:20:LEU:CD1	42:BU:68:LYS:HG3	2.44	0.48
43:BV:32:ALA:HA	43:BV:35:ILE:HG22	1.96	0.48
43:BV:87:PRO:C	43:BV:94:ASP:OD1	2.52	0.48
45:BX:2:ARG:HD2	45:BX:3:VAL:CG2	2.44	0.48
46:BY:104:PHE:CZ	46:BY:120:ILE:CG2	2.91	0.48
46:BY:74:VAL:HG22	46:BY:87:ASP:H	1.79	0.48
47:BZ:40:GLN:O	47:BZ:57:PHE:CB	2.62	0.48
47:BZ:76:GLY:O	47:BZ:78:TYR:CD1	2.67	0.48
32:BK:111:PRO:CG	32:BK:112:LYS:HD2	2.41	0.48
3:AD:24:G:C6	3:AD:25:C:C4	3.02	0.48
26:BC:59:ARG:HB2	26:BC:164:ARG:HG2	1.96	0.48
3:AB:71:G:H21	3:AB:72:C:H1'	1.76	0.48
1:AA:1171:G:H2'	1:AA:1172:C:H6	1.78	0.48
1:AA:511:C:O2'	1:AA:512:U:O5'	2.32	0.48
12:AM:3:LYS:CD	12:AM:3:LYS:N	2.77	0.48
1:AA:1065:U:H2'	1:AA:1066:C:OP2	2.13	0.47
1:AA:1105:A:N3	1:AA:1106:G:C8	2.82	0.47
1:AA:1237:C:HO2'	1:AA:1300:G:H22	1.54	0.47
1:AA:978:A:N6	1:AA:1318:A:H61	2.12	0.47
1:AA:1371:G:O2'	1:AA:1372:U:H5'	2.13	0.47
1:AA:938:A:O2'	1:AA:1376:U:H4'	2.14	0.47
1:AA:142:G:N1	1:AA:143:A:C5	2.82	0.47
1:AA:1483:A:H3'	1:AA:1484:C:C6	2.49	0.47
1:AA:1490:C:H2'	1:AA:1491:G:O4'	2.14	0.47
1:AA:1502:A:C2	1:AA:1504:G:C4	3.01	0.47
1:AA:152:A:C8	1:AA:153:C:C6	3.02	0.47
1:AA:20:U:O4	1:AA:21:G:C6	2.68	0.47
1:AA:295:C:O2	1:AA:296:U:C1'	2.62	0.47
1:AA:428:G:HO2'	1:AA:429:U:P	2.38	0.47
1:AA:458:C:H3'	1:AA:464:G:C8	2.48	0.47
1:AA:497:U:O2'	1:AA:498:A:H5'	2.13	0.47
1:AA:52:G:C2'	1:AA:53:A:O4'	2.59	0.47
1:AA:573:A:C2	1:AA:574:A:N1	2.82	0.47
1:AA:62:U:C2	1:AA:63:C:C5	3.02	0.47
1:AA:673:G:C2	1:AA:674:G:N1	2.82	0.47
1:AA:695:A:C2	1:AA:696:A:C4	3.02	0.47
1:AA:687:A:C2	1:AA:704:A:C6	3.01	0.47
1:AA:752:G:C2'	1:AA:753:A:OP2	2.61	0.47
1:AA:715:A:H4'	1:AA:777:A:H61	1.79	0.47
1:AA:570:G:O3'	1:AA:819:A:H2'	2.13	0.47
1:AA:830:G:C6	1:AA:857:C:C4	3.02	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:909:A:C2	1:AA:910:C:C1'	2.97	0.47
1:AA:960:U:O2'	1:AA:961:U:P	2.72	0.47
1:AA:995:C:O2	16:AQ:4:LYS:NZ	2.47	0.47
3:AB:74:C:O2'	3:AB:75:C:H5'	2.14	0.47
3:AC:21:A:C8	3:AC:46:G:O6	2.67	0.47
3:AD:35:A:H2'	3:AD:36:A:C8	2.49	0.47
4:AE:193:ASP:OD1	4:AE:193:ASP:N	2.41	0.47
4:AE:50:GLU:O	4:AE:51:LEU:C	2.53	0.47
4:AE:74:LYS:O	4:AE:75:LYS:C	2.50	0.47
5:AF:148:GLY:HA3	5:AF:172:ARG:O	2.14	0.47
5:AF:64:VAL:O	5:AF:99:VAL:CG1	2.62	0.47
5:AF:64:VAL:HG12	5:AF:66:VAL:HG23	1.95	0.47
5:AF:77:ILE:HG22	5:AF:81:GLY:HA2	1.95	0.47
6:AG:104:VAL:O	6:AG:105:VAL:C	2.52	0.47
6:AG:123:HIS:CD2	6:AG:123:HIS:N	2.81	0.47
6:AG:191:ARG:CD	6:AG:192:GLU:N	2.69	0.47
7:AH:31:LEU:HD23	7:AH:31:LEU:O	2.14	0.47
7:AH:49:PRO:O	7:AH:50:GLU:HG2	2.14	0.47
8:AI:6:VAL:HG12	8:AI:6:VAL:O	2.15	0.47
9:AJ:106:GLN:NE2	9:AJ:109:ASN:ND2	2.62	0.47
9:AJ:113:GLU:OE2	9:AJ:119:ARG:CG	2.58	0.47
9:AJ:94:ARG:O	9:AJ:97:GLN:HB3	2.14	0.47
10:AK:48:TYR:HB3	10:AK:61:VAL:HG22	1.93	0.47
10:AK:63:LEU:CG	10:AK:65:TYR:HE1	2.27	0.47
10:AK:18:ARG:HH12	10:AK:78:GLN:CD	2.16	0.47
11:AL:28:VAL:C	11:AL:30:GLY:N	2.64	0.47
12:AM:16:LEU:HB3	12:AM:70:ARG:HG3	1.96	0.47
13:AN:102:GLY:O	13:AN:104:GLN:O	2.31	0.47
1:AA:691:G:N2	13:AN:51:LYS:HZ3	2.12	0.47
14:AO:42:THR:HA	14:AO:55:VAL:HG23	1.95	0.47
15:AP:7:VAL:HG11	30:BG:140:ILE:CD1	2.41	0.47
17:AR:8:LYS:HE2	17:AR:9:GLN:HE22	1.77	0.47
19:AT:59:ILE:HG13	19:AT:60:ILE:N	2.29	0.47
20:AU:51:LEU:HA	20:AU:52:PRO:HD2	1.48	0.47
20:AU:74:ARG:CA	20:AU:79:LEU:HD21	2.42	0.47
21:AV:30:LEU:HD12	21:AV:59:PRO:HB3	1.95	0.47
21:AV:68:GLY:O	21:AV:69:HIS:CG	2.67	0.47
22:AW:85:MET:O	22:AW:86:ARG:C	2.52	0.47
49:B2:23:LEU:HD11	49:B2:53:LEU:CD1	2.40	0.47
51:B4:31:VAL:HB	51:B4:32:PRO:CD	2.44	0.47
52:B5:42:TRP:C	52:B5:42:TRP:CD1	2.87	0.47
53:B6:48:LYS:CG	53:B6:49:ARG:N	2.45	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BO:56:SER:OG	54:B7:13:ARG:NE	2.47	0.47
54:B7:4:MET:HB3	54:B7:7:HIS:NE2	2.27	0.47
55:B8:19:ARG:HG3	55:B8:22:ARG:HB2	1.96	0.47
24:BA:2465:C:O3'	55:B8:5:ALA:HB3	2.14	0.47
24:BA:1022:G:C6	24:BA:1139:G:N1	2.82	0.47
24:BA:1047:G:N1	24:BA:1110:G:N7	2.62	0.47
24:BA:1241:A:HO2'	24:BA:1242:A:H8	1.62	0.47
24:BA:1248:G:O2'	24:BA:1249:U:P	2.73	0.47
24:BA:1275:A:O2'	24:BA:1276:A:O5'	2.17	0.47
24:BA:1295:C:C2	24:BA:1296:G:N7	2.83	0.47
24:BA:1305:C:H2'	24:BA:1306:C:H6	1.78	0.47
24:BA:1334:G:C6	24:BA:1335:U:C4	3.01	0.47
24:BA:137(A):G:C6	24:BA:138:G:O6	2.66	0.47
24:BA:1467:C:C4'	24:BA:1467:C:OP1	2.62	0.47
24:BA:149:A:C5	24:BA:150:C:C5	3.01	0.47
24:BA:1515:C:H6	24:BA:1515:C:P	2.37	0.47
24:BA:1612:C:H1'	53:B6:6:GLN:NE2	2.29	0.47
24:BA:1613:G:C2'	24:BA:1614:A:OP1	2.62	0.47
24:BA:1703:G:C2'	24:BA:1704:G:H5'	2.44	0.47
24:BA:48:G:N2	24:BA:177:G:N7	2.62	0.47
1:AA:702:A:N1	24:BA:1848:A:C5	2.82	0.47
24:BA:1878:G:C6	24:BA:1879:C:C4	3.02	0.47
24:BA:1968:G:H2'	24:BA:1969:A:OP2	2.14	0.47
24:BA:2063:C:H2'	24:BA:2064:C:O4'	2.13	0.47
24:BA:2065:C:C5	24:BA:2066:C:C5	3.02	0.47
24:BA:2093:G:C2'	24:BA:2094:G:O5'	2.61	0.47
24:BA:2320:A:P	24:BA:2320:A:H8	2.36	0.47
24:BA:2324:C:C2'	24:BA:2325:G:OP1	2.61	0.47
24:BA:2365:G:OP1	47:BZ:55:ARG:CG	2.62	0.47
24:BA:2406:U:O5'	24:BA:2407:G:OP1	2.32	0.47
24:BA:2397:G:C2	24:BA:2420:C:C2	3.02	0.47
24:BA:2484:G:H4'	37:BP:46:GLN:HA	1.96	0.47
24:BA:2485:G:O2'	24:BA:2486:G:C5'	2.62	0.47
24:BA:2031:A:N6	24:BA:2498:C:C6	2.80	0.47
24:BA:2627:G:N2	24:BA:2628:C:C6	2.81	0.47
24:BA:2741:A:H2'	24:BA:2742:C:H6	1.78	0.47
24:BA:2805:G:C5	24:BA:2807:G:C8	2.99	0.47
24:BA:279:C:H2'	24:BA:280:C:C5	2.48	0.47
24:BA:2839:G:C5	24:BA:2840:C:C5	3.02	0.47
24:BA:295:G:N2	24:BA:296:C:C2	2.82	0.47
24:BA:307:G:O2'	24:BA:309:G:N7	2.35	0.47
24:BA:417:C:O2'	24:BA:418:G:H5'	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:445:C:H5''	41:BT:3:ARG:HG2	1.95	0.47
24:BA:455:C:H5'	24:BA:456:C:OP1	2.14	0.47
24:BA:625:G:C6	36:BO:100:LEU:HB3	2.49	0.47
24:BA:642:G:C3'	24:BA:642:G:C8	2.96	0.47
24:BA:721:C:O2'	24:BA:722:A:H5'	2.14	0.47
24:BA:740:U:C5	24:BA:741:G:N7	2.82	0.47
24:BA:786:C:H2'	24:BA:787:U:O4'	2.14	0.47
24:BA:917:A:C8	24:BA:918:A:H5'	2.48	0.47
24:BA:848:G:N2	24:BA:933:A:H1'	2.22	0.47
24:BA:977:G:C6	24:BA:987:G:C5	3.02	0.47
25:BB:31:C:N4	25:BB:32:C:H41	2.12	0.47
27:BD:10:THR:H	27:BD:23:GLU:CD	2.14	0.47
27:BD:89:SER:C	27:BD:159:ALA:HB2	2.34	0.47
27:BD:23:GLU:OE1	27:BD:24:ILE:O	2.30	0.47
27:BD:75:ILE:O	27:BD:76:PRO:O	2.32	0.47
24:BA:1656:C:O3'	28:BE:136:ARG:NH2	2.47	0.47
28:BE:80:GLU:O	28:BE:83:ASP:OD2	2.31	0.47
29:BF:132:VAL:HG23	29:BF:135:LYS:HB2	1.96	0.47
29:BF:135:LYS:HD3	29:BF:136:THR:N	2.29	0.47
29:BF:181:LEU:O	29:BF:182:ASN:HB3	2.13	0.47
29:BF:37:VAL:O	29:BF:184:TYR:CZ	2.66	0.47
29:BF:18:ARG:CG	29:BF:18:ARG:NH1	2.72	0.47
29:BF:125:LEU:HB2	29:BF:194:MET:O	2.14	0.47
29:BF:77:ASP:C	29:BF:77:ASP:OD1	2.52	0.47
24:BA:673:C:O4'	29:BF:82:ILE:HG21	2.14	0.47
31:BH:149:ARG:NH2	31:BH:164:TYR:HD1	2.09	0.47
31:BH:65:HIS:O	31:BH:66:GLY:C	2.53	0.47
31:BH:9:ILE:O	31:BH:50:VAL:O	2.32	0.47
32:BK:34:GLY:H	32:BK:35:LEU:HD22	1.78	0.47
34:BM:33:LEU:HD11	34:BM:52:VAL:CG2	2.44	0.47
34:BM:7:LYS:HD3	34:BM:39:ARG:NH2	2.28	0.47
34:BM:42:TRP:C	34:BM:43:THR:OG1	2.51	0.47
34:BM:42:TRP:O	34:BM:43:THR:CB	2.61	0.47
24:BA:672:C:C6	36:BO:38:GLN:CD	2.88	0.47
36:BO:7:ARG:H	36:BO:8:PRO:HD2	1.78	0.47
36:BO:95:VAL:C	36:BO:97:PRO:CD	2.79	0.47
37:BP:32:TYR:CB	37:BP:105:GLU:O	2.53	0.47
37:BP:120:ILE:O	37:BP:124:LYS:HG2	2.14	0.47
38:BQ:33:ARG:NH2	51:B4:56:LYS:CE	2.77	0.47
38:BQ:71:GLN:O	38:BQ:72:ASP:HB2	2.14	0.47
38:BQ:87:TYR:HD1	38:BQ:94:TYR:CG	2.32	0.47
39:BR:103:GLU:CA	39:BR:106:ARG:HB3	2.43	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BR:6:ALA:CA	39:BR:9:ARG:HH12	2.23	0.47
40:BS:108:ARG:O	40:BS:109:GLU:C	2.52	0.47
40:BS:70:VAL:CB	40:BS:74:ARG:HH11	2.14	0.47
41:BT:108:GLU:CA	41:BT:111:GLU:HG2	2.44	0.47
41:BT:89:GLU:C	41:BT:90:VAL:HG23	2.35	0.47
44:BW:35:THR:HG22	44:BW:36:LYS:N	2.29	0.47
46:BY:29:TYR:CD2	46:BY:89:PHE:CE2	3.01	0.47
25:BB:75:G:N2	46:BY:87:ASP:CG	2.66	0.47
47:BZ:72:ARG:HD2	47:BZ:75:LEU:HD22	1.95	0.47
32:BK:58:LEU:HB3	32:BK:62:LYS:HE3	1.95	0.47
32:BK:83:ALA:HA	32:BK:89:TYR:CZ	2.49	0.47
24:BA:2110:G:OP2	24:BA:2110:G:H8	1.96	0.47
26:BC:89:ALA:HB1	26:BC:154:ARG:HA	1.95	0.47
24:BA:1039:G:N2	24:BA:1115:G:H22	2.11	0.47
24:BA:1115:G:N2	24:BA:1116:C:O2	2.47	0.47
24:BA:1416:G:H2'	24:BA:1417:C:C5	2.49	0.47
2:A1:48:U:OP2	2:A1:48:U:C6	2.64	0.47
25:BB:93:C:H2'	25:BB:94:C:C6	2.48	0.47
1:AA:73:G:C2	1:AA:74:C:C2	3.02	0.47
32:BK:117:GLU:OE1	32:BK:117:GLU:N	2.43	0.47
2:A1:17:U:O2'	2:A1:18:U:OP1	2.29	0.47
1:AA:1006:C:O2	1:AA:1006:C:C2'	2.61	0.47
1:AA:1067:A:H2	1:AA:1068:G:C4	2.32	0.47
1:AA:108:G:C5	22:AW:15:ARG:NE	2.83	0.47
1:AA:1134:G:H2'	1:AA:1135:U:H5'	1.94	0.47
1:AA:1224:G:O6	1:AA:1322:C:H4'	2.14	0.47
1:AA:1261:A:N3	1:AA:1261:A:H2'	2.28	0.47
1:AA:1323:G:C2	1:AA:1324:A:C5	3.02	0.47
1:AA:13:U:C5'	1:AA:13:U:H6	2.27	0.47
1:AA:145:G:C2	1:AA:178:C:C2	3.01	0.47
1:AA:141:A:C4'	1:AA:182:U:H1'	2.44	0.47
1:AA:186(A):C:C2'	1:AA:186(B):C:H5'	2.44	0.47
1:AA:230:G:N1	1:AA:231:G:C4	2.82	0.47
1:AA:258:G:C4	1:AA:259:G:N7	2.82	0.47
1:AA:290:C:H2'	1:AA:291:C:C5'	2.44	0.47
1:AA:362:G:H4'	14:AO:28:LYS:NZ	2.28	0.47
1:AA:433:C:N4	1:AA:434:U:O4	2.48	0.47
1:AA:52:G:C4	1:AA:53:A:C8	3.02	0.47
1:AA:541:G:C8	1:AA:541:G:OP2	2.67	0.47
1:AA:55:A:HO2'	1:AA:56:U:H5'	1.78	0.47
1:AA:575:G:O2'	1:AA:576:G:H5'	2.15	0.47
1:AA:57:G:C6	1:AA:58:C:C4	3.02	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:665:A:C2	1:AA:732:C:C4	3.02	0.47
1:AA:68:G:H21	1:AA:152:A:H1'	1.78	0.47
1:AA:729:A:C2'	1:AA:730:G:O5'	2.62	0.47
1:AA:812:C:C2'	1:AA:813:U:OP2	2.62	0.47
1:AA:904:C:H2'	1:AA:905:U:C6	2.49	0.47
1:AA:932:C:O2	1:AA:932:C:H2'	2.14	0.47
1:AA:972:C:P	12:AM:57:LYS:NZ	2.86	0.47
3:AC:30:G:N3	3:AC:31:A:H1'	2.29	0.47
4:AE:178:ARG:CA	4:AE:184:VAL:HG21	2.40	0.47
4:AE:189:ASP:CG	4:AE:205:ASP:CG	2.71	0.47
4:AE:84:GLU:CD	4:AE:234:PRO:HD2	2.34	0.47
4:AE:45:GLN:O	4:AE:49:GLU:OE2	2.32	0.47
5:AF:18:TRP:CZ2	16:AQ:55:GLY:O	2.67	0.47
6:AG:193:ASP:C	6:AG:194:LEU:HD22	2.34	0.47
1:AA:540:G:N2	6:AG:42:GLN:NE2	2.56	0.47
9:AJ:119:ARG:O	9:AJ:120:ILE:C	2.52	0.47
9:AJ:71:PRO:CA	9:AJ:138:LYS:HE3	2.43	0.47
9:AJ:139:GLU:O	9:AJ:143:ARG:HG3	2.14	0.47
10:AK:103:VAL:CG1	10:AK:108:GLY:HA3	2.44	0.47
10:AK:25:ASP:HA	10:AK:59:LEU:O	2.14	0.47
10:AK:67:PRO:N	10:AK:76:PRO:HB3	2.29	0.47
12:AM:9:ARG:O	12:AM:9:ARG:HG3	2.14	0.47
13:AN:114:VAL:HG23	13:AN:115:PRO:HD2	1.96	0.47
14:AO:48:PRO:HG3	14:AO:92:ASP:OD1	2.14	0.47
14:AO:53:ARG:CZ	14:AO:92:ASP:OD2	2.62	0.47
17:AR:55:GLY:O	17:AR:56:LEU:C	2.51	0.47
17:AR:59:MET:O	17:AR:63:ARG:HG2	2.15	0.47
20:AU:17:SER:CB	20:AU:54:ARG:NH1	2.77	0.47
20:AU:87:ARG:HG2	20:AU:87:ARG:HH11	1.79	0.47
22:AW:100:ILE:C	22:AW:102:GLY:H	2.14	0.47
22:AW:86:ARG:CG	22:AW:87:LYS:N	2.77	0.47
48:B1:25:ARG:O	48:B1:28:MET:CB	2.61	0.47
24:BA:95:G:C2'	48:B1:43:HIS:NE2	2.72	0.47
49:B2:16:PRO:O	49:B2:19:GLN:N	2.47	0.47
49:B2:52:HIS:CG	49:B2:53:LEU:N	2.82	0.47
50:B3:14:ILE:HG13	50:B3:38:LYS:O	2.15	0.47
50:B3:24:THR:O	50:B3:25:TYR:CD2	2.66	0.47
53:B6:43:THR:O	53:B6:45:ALA:N	2.46	0.47
54:B7:4:MET:HE1	54:B7:62:LEU:CD1	2.44	0.47
24:BA:1004:C:H1'	24:BA:1010:A:H2'	1.96	0.47
24:BA:108:U:C2	24:BA:109:G:C8	3.02	0.47
24:BA:1107:G:H2'	24:BA:1108:U:C5'	2.42	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1165:U:O2'	24:BA:1166:C:O4'	2.32	0.47
24:BA:1203:G:N1	24:BA:1206:G:N1	2.59	0.47
24:BA:1250:G:O3'	24:BA:1251:C:C4'	2.61	0.47
24:BA:1267:U:C5	24:BA:1268:A:N7	2.82	0.47
24:BA:1270:C:O5'	24:BA:1270:C:C6	2.67	0.47
24:BA:1299:G:O3'	24:BA:1300:U:C6	2.67	0.47
24:BA:1324:G:O3'	24:BA:1325:G:H4'	2.14	0.47
24:BA:1392:A:N6	24:BA:1393:A:N6	2.62	0.47
24:BA:1402:C:N4	24:BA:1403:C:N4	2.62	0.47
24:BA:1464:C:H5'	24:BA:1528:A:HO2'	1.75	0.47
24:BA:120:U:H1'	24:BA:149:A:C4	2.49	0.47
24:BA:1513:C:H6	24:BA:1513:C:H5''	1.79	0.47
24:BA:1558:A:C2	24:BA:1560:G:N9	2.79	0.47
24:BA:1619:G:N1	24:BA:1620:G:C5	2.83	0.47
24:BA:1621:U:H6	24:BA:1621:U:H3'	1.79	0.47
24:BA:1684:C:O2	24:BA:1685:C:C6	2.67	0.47
24:BA:1689:A:N3	24:BA:1690:A:N7	2.62	0.47
24:BA:1725:G:N1	24:BA:1726:G:C8	2.82	0.47
24:BA:1729:A:C8	24:BA:1730:U:O4'	2.68	0.47
24:BA:1859:A:H8	24:BA:1859:A:O5'	1.96	0.47
24:BA:1786:A:C5'	24:BA:1938:A:H61	2.26	0.47
24:BA:1936:A:H1'	24:BA:1940:U:C2	2.49	0.47
1:AA:1483:A:H2	24:BA:1960:A:H1'	1.78	0.47
24:BA:1966:A:C2'	24:BA:1967:C:OP2	2.62	0.47
24:BA:2020:A:H2'	24:BA:2021:C:C5'	2.34	0.47
24:BA:2075:U:O2	24:BA:2076:U:O5'	2.31	0.47
24:BA:2312:U:H2'	24:BA:2313:C:H6	1.78	0.47
24:BA:2322:A:OP1	24:BA:2322:A:O4'	2.31	0.47
24:BA:2346:A:H2	24:BA:2383:G:C2	2.32	0.47
24:BA:2387:U:O5'	24:BA:2387:U:H6	1.97	0.47
24:BA:2399:G:C2	52:B5:21:TYR:OH	2.63	0.47
24:BA:2406:U:O2'	36:BO:67:MET:CG	2.62	0.47
24:BA:410:G:N2	24:BA:2407:G:N7	2.63	0.47
24:BA:2449:U:P	24:BA:2449:U:O4'	2.72	0.47
24:BA:253:C:C2'	24:BA:254:G:O5'	2.62	0.47
24:BA:2690:C:H6	24:BA:2690:C:C3'	2.09	0.47
24:BA:2691:C:O4'	24:BA:2872:G:C6	2.67	0.47
24:BA:271:G:C5	24:BA:404:C:N4	2.82	0.47
24:BA:2827:C:C2'	24:BA:2828:C:H5'	2.44	0.47
24:BA:29:U:C2	24:BA:30:G:O6	2.67	0.47
24:BA:323:G:C2	24:BA:333:G:H1'	2.49	0.47
24:BA:393:C:C2'	24:BA:394:A:H5'	2.43	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:470:A:N3	24:BA:471:A:C1'	2.76	0.47
24:BA:48:G:O5'	24:BA:48:G:H8	1.97	0.47
24:BA:532:A:O3'	41:BT:28:ARG:HD2	2.15	0.47
24:BA:548:A:H3'	24:BA:549:G:C4'	2.43	0.47
24:BA:661:C:H2'	24:BA:662:G:O4'	2.14	0.47
24:BA:705:A:H2	24:BA:706:A:C1'	2.27	0.47
24:BA:718:A:C5'	24:BA:719:C:C5	2.94	0.47
24:BA:836:G:C4	24:BA:837:C:C5	3.01	0.47
25:BB:61:G:C2	25:BB:62:C:C2	3.01	0.47
27:BD:147:LEU:O	27:BD:154:LYS:HE3	2.13	0.47
27:BD:34:VAL:C	27:BD:36:PRO:HD2	2.34	0.47
27:BD:33:LEU:CD1	27:BD:61:LEU:HD11	2.44	0.47
27:BD:72:LYS:HZ2	27:BD:75:ILE:HD12	1.78	0.47
28:BE:102:VAL:HA	28:BE:202:LYS:HZ2	1.77	0.47
28:BE:118:LYS:CA	28:BE:118:LYS:CE	2.85	0.47
24:BA:1656:C:C5'	28:BE:136:ARG:NH1	2.77	0.47
29:BF:119:ARG:HD3	29:BF:120:GLU:OE1	2.14	0.47
29:BF:136:THR:O	29:BF:137:LYS:C	2.52	0.47
29:BF:6:VAL:CB	29:BF:18:ARG:HD2	2.41	0.47
29:BF:194:MET:SD	29:BF:197:ASP:HB3	2.54	0.47
29:BF:64:ILE:C	29:BF:64:ILE:HD13	2.33	0.47
29:BF:88:VAL:O	29:BF:89:VAL:O	2.32	0.47
30:BG:21:ARG:O	30:BG:22:ARG:C	2.52	0.47
30:BG:47:LYS:HB3	30:BG:72:ARG:CB	2.44	0.47
31:BH:101:ARG:NE	31:BH:101:ARG:HA	2.29	0.47
31:BH:146:ALA:O	31:BH:147:ASN:C	2.52	0.47
31:BH:17:VAL:HG13	31:BH:17:VAL:O	2.14	0.47
31:BH:6:ARG:C	31:BH:7:LEU:HD23	2.34	0.47
33:BL:17:ALA:O	33:BL:38:VAL:CG1	2.62	0.47
34:BM:18:ALA:O	34:BM:19:GLU:C	2.53	0.47
24:BA:1139:G:OP1	34:BM:63:THR:HG21	2.14	0.47
34:BM:74:ARG:HG2	34:BM:76:SER:CB	2.43	0.47
35:BN:23:ARG:H	35:BN:40:VAL:CG1	2.26	0.47
35:BN:9:GLU:CB	35:BN:81:ASP:O	2.62	0.47
35:BN:92:GLU:CD	35:BN:113:LYS:HB3	2.34	0.47
36:BO:96:THR:CB	36:BO:102:ARG:HD3	2.44	0.47
36:BO:47:ASP:CB	36:BO:48:PRO:HD3	2.44	0.47
36:BO:81:GLN:C	36:BO:86:LYS:CG	2.83	0.47
37:BP:63:LYS:NZ	37:BP:64:ILE:HG13	2.29	0.47
38:BQ:50:HIS:O	38:BQ:53:HIS:CB	2.60	0.47
39:BR:106:ARG:NH1	39:BR:110:LEU:CB	2.63	0.47
41:BT:91:ASP:OD2	42:BU:10:LYS:HD3	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BT:93:LYS:CG	42:BU:10:LYS:NZ	2.68	0.47
24:BA:495:G:O4'	43:BV:57:ASN:CG	2.53	0.47
43:BV:59:VAL:HA	43:BV:63:ASP:O	2.14	0.47
43:BV:25:ARG:HA	43:BV:71:VAL:CG2	2.44	0.47
43:BV:88:ARG:HE	43:BV:88:ARG:CA	2.26	0.47
44:BW:72:LYS:O	44:BW:73:ARG:CB	2.47	0.47
46:BY:44:PHE:O	46:BY:48:PHE:CD1	2.67	0.47
3:AD:18:G:H2'	3:AD:19:G:O4'	2.14	0.47
24:BA:2163:C:OP1	24:BA:2172:U:C5	2.67	0.47
26:BC:102:LYS:HZ1	26:BC:107:TRP:HB2	1.78	0.47
26:BC:22:ILE:CD1	26:BC:190:ARG:NH2	2.76	0.47
1:AA:1011:G:C2	1:AA:1012:U:H1'	2.49	0.47
6:AG:159:ARG:HD2	6:AG:163:GLU:CD	2.34	0.47
50:B3:50:VAL:O	50:B3:51:ASP:CB	2.62	0.47
2:A1:10:U:O2'	2:A1:12:U:H5	1.95	0.47
1:AA:1066:C:C3'	1:AA:1067:A:C8	2.90	0.47
1:AA:1151:A:N6	1:AA:1152:A:C5	2.82	0.47
1:AA:1212:U:O4'	1:AA:1212:U:OP2	2.32	0.47
1:AA:1237:C:C4'	1:AA:1334:G:N2	2.77	0.47
1:AA:1407:C:H6	1:AA:1407:C:O5'	1.97	0.47
1:AA:1409:C:O5'	1:AA:1409:C:H6	1.96	0.47
1:AA:198:G:C2	1:AA:199:G:C8	3.03	0.47
1:AA:208:U:H2'	1:AA:208:U:O2	2.14	0.47
1:AA:292:G:OP2	1:AA:293:G:N7	2.47	0.47
1:AA:406:G:N2	1:AA:437:U:O2	2.47	0.47
1:AA:444:C:O2'	1:AA:445:G:H5'	2.14	0.47
1:AA:464:G:N2	1:AA:474:G:O6	2.47	0.47
1:AA:520:A:OP2	14:AO:51:ALA:CB	2.60	0.47
1:AA:521:G:C6	1:AA:529:G:N2	2.82	0.47
1:AA:640:A:H2'	1:AA:641:U:H5'	1.94	0.47
1:AA:644:G:H2'	1:AA:645:C:H5'	1.96	0.47
1:AA:648:A:C2	1:AA:649:G:C8	3.03	0.47
1:AA:718:G:N7	1:AA:719:C:N4	2.62	0.47
1:AA:778:G:C2	1:AA:779:C:C6	3.02	0.47
1:AA:849:C:O2'	1:AA:850:U:H5'	2.14	0.47
1:AA:862:C:N3	1:AA:863:U:H5	2.12	0.47
3:AB:30:G:O6	3:AB:41:C:N4	2.47	0.47
3:AC:57:G:OP1	30:BG:81:LYS:NZ	2.35	0.47
4:AE:101:MET:HA	4:AE:104:ASN:OD1	2.15	0.47
4:AE:24:TRP:CZ2	4:AE:26:PRO:HA	2.49	0.47
6:AG:59:ARG:HH22	6:AG:66:ARG:NH1	2.07	0.47
8:AI:45:LEU:HD23	8:AI:59:TYR:CB	2.44	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AK:114:THR:H	10:AK:119:LEU:CD2	2.26	0.47
1:AA:1368:G:P	11:AL:112:LYS:O	2.73	0.47
11:AL:113:LYS:HB2	11:AL:114:TYR:H	1.39	0.47
12:AM:15:THR:HG21	12:AM:93:GLY:O	2.14	0.47
13:AN:80:VAL:N	13:AN:104:GLN:NE2	2.56	0.47
13:AN:91:ARG:CD	13:AN:95:ILE:HD11	2.44	0.47
14:AO:110:VAL:HG21	14:AO:113:ARG:HG3	1.95	0.47
14:AO:5:PRO:HB3	14:AO:10:LEU:CD1	2.40	0.47
14:AO:34:ARG:N	14:AO:84:LEU:HD12	2.29	0.47
15:AP:92:HIS:CE1	15:AP:110:ARG:NH2	2.83	0.47
16:AQ:27:CYS:SG	16:AQ:42:ILE:HG13	2.54	0.47
17:AR:81:LEU:O	17:AR:85:LEU:HD12	2.14	0.47
18:AS:71:ARG:NH1	18:AS:71:ARG:HB2	2.29	0.47
19:AT:5:VAL:CG1	19:AT:6:LEU:H	2.27	0.47
20:AU:71:LYS:O	20:AU:73:ALA:N	2.47	0.47
21:AV:52:TYR:OH	21:AV:55:LYS:HA	2.13	0.47
21:AV:78:ARG:O	21:AV:79:THR:OG1	2.21	0.47
49:B2:4:LEU:HD23	49:B2:4:LEU:C	2.35	0.47
50:B3:33:VAL:CG1	50:B3:35:VAL:CG2	2.92	0.47
53:B6:8:ASN:HD22	53:B6:9:ARG:N	2.12	0.47
54:B7:49:VAL:O	54:B7:53:PRO:HD3	2.14	0.47
54:B7:5:LYS:HG2	54:B7:7:HIS:HA	1.97	0.47
24:BA:1022:G:O6	34:BM:65:LYS:NZ	2.43	0.47
24:BA:1106:G:H8	24:BA:1106:G:O5'	1.96	0.47
24:BA:1169:G:H2'	24:BA:1170:G:C1'	2.44	0.47
24:BA:1181:C:H2'	24:BA:1182:A:O4'	2.14	0.47
24:BA:1223:C:C2	24:BA:1225:C:H5''	2.49	0.47
24:BA:1238:G:N1	24:BA:1239:G:C5	2.82	0.47
24:BA:128:C:C4	24:BA:129:C:N4	2.81	0.47
24:BA:1381:G:O6	24:BA:1382:G:C6	2.67	0.47
24:BA:144:C:H2'	24:BA:145:G:C5'	2.45	0.47
24:BA:151:C:C2'	24:BA:152:G:C8	2.96	0.47
24:BA:1676:A:O2'	24:BA:1677:A:H5'	2.13	0.47
24:BA:1800:C:C4	24:BA:1818:U:C2	3.02	0.47
24:BA:1829:A:N3	24:BA:1829:A:H2'	2.29	0.47
24:BA:1913:A:N3	24:BA:1916:A:C2	2.82	0.47
24:BA:1936:A:C4	24:BA:1945:G:C6	3.02	0.47
24:BA:1970:A:O2'	24:BA:1971:A:OP2	2.27	0.47
24:BA:200:U:C4	24:BA:201:C:C1'	2.96	0.47
24:BA:2021:C:O4'	24:BA:2021:C:OP1	2.32	0.47
24:BA:2053:G:C2	24:BA:2054:A:C8	3.02	0.47
24:BA:2091:U:O2'	24:BA:2092:U:OP1	2.28	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2371:G:O2'	24:BA:2372:G:C1'	2.62	0.47
24:BA:2373:G:HO2'	24:BA:2374:C:H6	1.59	0.47
24:BA:2380:C:N4	24:BA:2381:C:N4	2.62	0.47
24:BA:2416:C:N3	24:BA:2417:C:C5	2.82	0.47
3:AD:76:A:C2	24:BA:2432:A:O4'	2.67	0.47
24:BA:2458:G:N7	24:BA:2490:G:C5	2.82	0.47
24:BA:2471:C:H2'	24:BA:2472:G:C5'	2.44	0.47
24:BA:2597:G:C6	24:BA:2598:A:C6	3.02	0.47
24:BA:14:A:H2	24:BA:2625:G:O2'	1.97	0.47
24:BA:2687:U:O2	24:BA:2688:U:C6	2.60	0.47
24:BA:2720:U:C3'	24:BA:2721:A:C8	2.96	0.47
24:BA:2645:G:O2'	24:BA:2732:G:O3'	2.29	0.47
24:BA:2817:G:C5	24:BA:2818:G:N7	2.82	0.47
24:BA:282:A:C6	24:BA:283:A:H4'	2.49	0.47
24:BA:28:A:N3	24:BA:29:U:C4'	2.77	0.47
24:BA:393:C:O2'	24:BA:394:A:H5'	2.14	0.47
24:BA:427:U:O2'	24:BA:428:A:C1'	2.62	0.47
24:BA:443:A:C5	29:BF:45:ARG:NH2	2.82	0.47
24:BA:468:G:H2'	24:BA:469:G:C4'	2.43	0.47
24:BA:673:C:N3	24:BA:808:G:N2	2.62	0.47
24:BA:740:U:O5'	24:BA:1784:A:C2	2.67	0.47
24:BA:730:C:C5'	24:BA:761:A:OP1	2.63	0.47
24:BA:781:A:O2'	27:BD:222:ARG:NH1	2.46	0.47
24:BA:6:A:N3	24:BA:7:G:C8	2.82	0.47
24:BA:900:A:H2'	24:BA:901:A:C5'	2.44	0.47
24:BA:903:C:H2'	24:BA:904:C:H6	1.79	0.47
24:BA:912:C:C2'	24:BA:913:U:H5'	2.43	0.47
24:BA:820:A:C2	24:BA:943:U:H2'	2.48	0.47
24:BA:569:U:OP1	24:BA:945:A:N1	2.47	0.47
24:BA:961:C:N4	24:BA:2031:A:H1'	2.29	0.47
25:BB:103:U:O2'	46:BY:72:ARG:HB2	2.15	0.47
25:BB:49:C:H2'	25:BB:50:G:O4'	2.15	0.47
27:BD:208:LYS:CE	27:BD:211:ARG:NE	2.78	0.47
24:BA:781:A:O2'	27:BD:222:ARG:CZ	2.62	0.47
27:BD:37:LEU:CD2	27:BD:63:ARG:HE	2.27	0.47
29:BF:162:LEU:HA	29:BF:165:ARG:HB3	1.95	0.47
29:BF:37:VAL:O	29:BF:41:LEU:HG	2.14	0.47
29:BF:44:ARG:O	29:BF:45:ARG:O	2.32	0.47
30:BG:125:PHE:CD1	30:BG:131:TYR:C	2.88	0.47
30:BG:41:GLN:NE2	30:BG:155:MET:CA	2.75	0.47
31:BH:102:ALA:HA	31:BH:115:VAL:HG12	1.94	0.47
31:BH:157:TYR:C	31:BH:157:TYR:HD1	2.18	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:BH:29:PRO:CD	31:BH:30:LYS:H	2.27	0.47
32:BK:4:ILE:HG23	32:BK:18:VAL:HG21	1.95	0.47
33:BL:10:LEU:CD1	33:BL:27:LEU:HD11	2.44	0.47
33:BL:115:LEU:HD12	33:BL:118:THR:HA	1.95	0.47
34:BM:26:LEU:O	34:BM:30:ILE:CG1	2.60	0.47
34:BM:55:VAL:O	34:BM:56:ASN:C	2.50	0.47
34:BM:67:LEU:O	34:BM:68:GLU:HG3	2.14	0.47
35:BN:1:MET:HG3	35:BN:2:ILE:N	2.28	0.47
35:BN:97:ARG:O	35:BN:97:ARG:CD	2.62	0.47
36:BO:24:GLY:O	36:BO:25:SER:C	2.52	0.47
37:BP:16:ARG:HG3	37:BP:72:LYS:CB	2.41	0.47
37:BP:99:PRO:HD2	37:BP:101:ARG:CZ	2.44	0.47
38:BQ:96:ARG:HH21	38:BQ:117:VAL:HG23	1.80	0.47
38:BQ:22:ARG:O	38:BQ:26:LYS:HG3	2.15	0.47
28:BE:110:GLY:O	38:BQ:4:LEU:HD13	2.13	0.47
25:BB:116:G:H5'	39:BR:53:SER:CB	2.44	0.47
39:BR:58:LEU:HD23	39:BR:62:LYS:HG3	1.95	0.47
40:BS:30:VAL:HG11	40:BS:52:ILE:HD11	1.97	0.47
40:BS:85:LYS:HZ2	40:BS:85:LYS:H	1.61	0.47
41:BT:110:VAL:O	41:BT:113:ALA:N	2.47	0.47
41:BT:34:LYS:O	41:BT:38:THR:OG1	2.32	0.47
41:BT:54:LYS:CA	41:BT:54:LYS:CE	2.92	0.47
42:BU:10:LYS:C	42:BU:12:TYR:H	2.18	0.47
42:BU:78:LYS:HB2	42:BU:83:ARG:O	2.14	0.47
42:BU:64:HIS:CG	42:BU:96:ILE:HG22	2.49	0.47
43:BV:13:SER:N	43:BV:101:SER:OG	2.47	0.47
43:BV:42:ARG:CG	43:BV:43:GLY:H	2.26	0.47
44:BW:35:THR:O	44:BW:38:GLU:CB	2.62	0.47
45:BX:72:VAL:HG11	45:BX:96:ILE:CG2	2.42	0.47
46:BY:48:PHE:CA	46:BY:54:HIS:CE1	2.98	0.47
24:BA:2115:G:H1	24:BA:2118:U:H5''	1.77	0.47
26:BC:68:LEU:HD23	26:BC:69:GLY:CA	2.44	0.47
26:BC:68:LEU:HG	26:BC:69:GLY:H	1.79	0.47
14:AO:126:LYS:HD2	14:AO:126:LYS:O	2.14	0.47
24:BA:1507:A:C2'	24:BA:1507:A:N3	2.62	0.47
1:AA:1165:C:C4	1:AA:1166:G:C8	3.03	0.47
2:A1:47:U:H5''	2:A1:48:U:OP1	2.14	0.47
1:AA:1342:C:C5'	11:AL:125:TYR:HB2	2.44	0.47
1:AA:134:A:P	1:AA:134:A:H8	2.36	0.47
1:AA:290:C:C6	1:AA:290:C:H3'	2.49	0.47
1:AA:321:A:H5''	1:AA:1436:U:O4'	2.13	0.47
1:AA:372:C:N4	1:AA:389:A:N6	2.61	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:379:C:C2'	1:AA:380:G:H5'	2.42	0.47
1:AA:432:A:C8	1:AA:433:C:C5	3.02	0.47
1:AA:44:G:C5	1:AA:45:U:C6	3.02	0.47
1:AA:502:G:O2'	1:AA:503:C:H5'	2.13	0.47
1:AA:559:A:C3'	1:AA:560:U:H5'	2.43	0.47
1:AA:706:A:C4'	13:AN:29:ILE:HD13	2.44	0.47
1:AA:709:G:C4	1:AA:710:G:C8	3.03	0.47
1:AA:715:A:H2'	1:AA:716:A:O4'	2.14	0.47
1:AA:721:G:H1'	1:AA:722:A:N1	2.30	0.47
1:AA:742:G:C2	1:AA:743:U:H1'	2.49	0.47
1:AA:761:G:H1'	19:AT:103:GLY:O	2.13	0.47
1:AA:862:C:C2	1:AA:863:U:C5	3.02	0.47
3:AB:26:A:N6	3:AB:44:G:C6	2.78	0.47
3:AC:54:U:C5	3:AC:55:U:C4	3.02	0.47
3:AC:4:C:C2'	3:AC:5:G:O5'	2.62	0.47
4:AE:104:ASN:O	4:AE:104:ASN:OD1	2.31	0.47
5:AF:71:ALA:CA	5:AF:105:GLU:HG3	2.42	0.47
5:AF:179:ARG:HG2	5:AF:206:GLU:OE1	2.13	0.47
6:AG:121:VAL:HA	6:AG:126:ILE:CD1	2.36	0.47
6:AG:14:ARG:HD3	6:AG:15:GLU:OE1	2.14	0.47
6:AG:27:TYR:CD2	6:AG:27:TYR:O	2.68	0.47
6:AG:32:ALA:O	6:AG:37:PRO:HA	2.14	0.47
7:AH:103:GLY:O	7:AH:104:ALA:C	2.52	0.47
7:AH:109:ILE:HG12	7:AH:139:LEU:HD11	1.97	0.47
7:AH:109:ILE:CG2	7:AH:110:LEU:N	2.75	0.47
7:AH:94:ALA:HB3	7:AH:117:ASP:O	2.15	0.47
7:AH:144:THR:HG22	7:AH:146:ALA:CB	2.44	0.47
8:AI:16:GLN:CG	8:AI:17:SER:H	2.25	0.47
8:AI:25:ILE:O	8:AI:26:ILE:C	2.52	0.47
9:AJ:123:GLU:OE1	9:AJ:134:ALA:CB	2.62	0.47
9:AJ:155:ARG:O	9:AJ:156:TRP:HE3	1.97	0.47
9:AJ:15:ASP:OD1	9:AJ:18:TYR:N	2.47	0.47
9:AJ:50:ILE:HD13	9:AJ:58:PRO:CA	2.45	0.47
10:AK:9:MET:HE3	10:AK:13:ILE:HD11	1.96	0.47
4:AE:181:PHE:CE1	10:AK:70:GLN:NE2	2.82	0.47
10:AK:87:SER:HB2	10:AK:91:ARG:O	2.14	0.47
12:AM:33:GLN:C	12:AM:34:VAL:HG23	2.35	0.47
13:AN:44:SER:N	13:AN:47:VAL:CG2	2.77	0.47
13:AN:85:ARG:HA	13:AN:85:ARG:HD3	1.56	0.47
14:AO:102:ARG:HG3	14:AO:120:TYR:HA	1.97	0.47
14:AO:24:VAL:HG13	14:AO:98:TYR:CZ	2.49	0.47
15:AP:37:THR:CG2	15:AP:56:LEU:HD22	2.45	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:AQ:16:PHE:C	16:AQ:18:VAL:N	2.67	0.47
18:AS:6:LEU:CG	18:AS:17:TYR:HD2	2.26	0.47
1:AA:136:C:C1'	18:AS:1:MET:HE1	2.44	0.47
19:AT:38:ARG:HE	19:AT:38:ARG:HA	1.80	0.47
20:AU:21:LYS:HE2	20:AU:23:LYS:HB3	1.97	0.47
1:AA:1314:C:OP2	21:AV:6:LYS:HA	2.14	0.47
22:AW:22:ARG:C	22:AW:26:ASN:OD1	2.52	0.47
22:AW:37:SER:OG	22:AW:38:LYS:N	2.47	0.47
22:AW:88:VAL:O	22:AW:92:LEU:HG	2.14	0.47
48:B1:30:LEU:O	48:B1:31:ARG:C	2.52	0.47
50:B3:28:LYS:CB	50:B3:29:PRO:CD	2.91	0.47
50:B3:48:ARG:H	50:B3:52:THR:CG2	2.27	0.47
52:B5:19:ARG:CG	52:B5:43:CYS:SG	3.02	0.47
54:B7:54:GLU:O	54:B7:57:ARG:N	2.48	0.47
55:B8:7:VAL:HG12	55:B8:7:VAL:O	2.13	0.47
24:BA:1005:C:C5	24:BA:1143:A:P	3.07	0.47
24:BA:1256:G:C2'	24:BA:1257:C:O5'	2.62	0.47
24:BA:1296:G:C2	24:BA:1297:C:C5	3.02	0.47
24:BA:1312:U:H2'	24:BA:1313:U:C4'	2.41	0.47
24:BA:1429:G:H2'	24:BA:1430:C:O4'	2.14	0.47
24:BA:1513:C:H2'	24:BA:1514:U:H5	1.79	0.47
24:BA:1567:A:N1	27:BD:85:ASP:HA	2.30	0.47
24:BA:1645:G:OP2	24:BA:1645:G:H8	1.97	0.47
24:BA:1664:A:C2'	24:BA:1665:A:C8	2.92	0.47
24:BA:1684:C:H2'	24:BA:1685:C:H6	1.76	0.47
24:BA:1689:A:H2'	24:BA:1690:A:C8	2.49	0.47
24:BA:1757:U:H2'	24:BA:1758:G:OP1	2.15	0.47
24:BA:1769:G:H2'	24:BA:1770:G:H8	1.79	0.47
24:BA:1802:A:H5'	24:BA:1803:A:P	2.54	0.47
24:BA:1857:G:H2'	24:BA:1858:G:C8	2.49	0.47
24:BA:1990:C:C4	24:BA:1991:U:C4	3.03	0.47
24:BA:2247:A:O5'	24:BA:2247:A:H8	1.97	0.47
24:BA:2310:A:H2	30:BG:83:ARG:NH2	2.10	0.47
24:BA:2324:C:O2'	24:BA:2325:G:P	2.72	0.47
24:BA:2371:G:H2'	24:BA:2372:G:C8	2.49	0.47
24:BA:2402:C:C5'	24:BA:2403:C:OP1	2.57	0.47
24:BA:2435:A:C2	24:BA:2436:G:N9	2.82	0.47
24:BA:2435:A:H2'	24:BA:2436:G:O5'	2.14	0.47
24:BA:2549:G:C2'	24:BA:2550:G:H5'	2.44	0.47
24:BA:2682:U:C4	28:BE:21:VAL:HG11	2.49	0.47
24:BA:2696:U:H2'	24:BA:2697:G:H8	1.79	0.47
24:BA:2795:G:C2'	24:BA:2795:G:N3	2.72	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2822:G:C8	38:BQ:4:LEU:HD21	2.49	0.47
24:BA:2877:G:N2	24:BA:2878:U:C2	2.82	0.47
24:BA:401:A:C4	24:BA:402:A:H8	2.32	0.47
24:BA:419:C:H2'	24:BA:420:C:C6	2.50	0.47
24:BA:462:C:C6	24:BA:468:G:N2	2.82	0.47
24:BA:543:C:H2'	24:BA:544:C:C6	2.49	0.47
24:BA:60:G:N7	24:BA:63:U:C4	2.82	0.47
24:BA:643:A:O2'	24:BA:644:A:P	2.73	0.47
24:BA:653:A:H62	24:BA:655:A:C1'	2.13	0.47
24:BA:656:G:C8	24:BA:656:G:OP2	2.67	0.47
24:BA:705:A:N6	24:BA:727:A:C8	2.83	0.47
24:BA:72:U:H1'	48:B1:53:ALA:HA	1.95	0.47
24:BA:783:A:H2	24:BA:1779:U:C4'	2.27	0.47
24:BA:801:G:O2'	24:BA:802:A:P	2.73	0.47
24:BA:860:U:H3'	24:BA:860:U:O2	2.15	0.47
24:BA:954:G:C6	24:BA:955:C:C2	3.02	0.47
25:BB:12:C:O5'	47:BZ:74:ARG:NE	2.46	0.47
25:BB:37:C:N3	25:BB:48:A:O2'	2.47	0.47
25:BB:8:U:C2	25:BB:9:G:H8	2.30	0.47
27:BD:118:VAL:O	27:BD:129:ASN:CB	2.63	0.47
27:BD:143:HIS:CA	27:BD:145:VAL:HG23	2.44	0.47
27:BD:147:LEU:HD23	27:BD:147:LEU:N	2.24	0.47
27:BD:18:VAL:O	27:BD:18:VAL:HG12	2.15	0.47
27:BD:246:PRO:CG	27:BD:252:TRP:HA	2.44	0.47
27:BD:46:GLN:O	27:BD:47:GLY:C	2.50	0.47
27:BD:65:ILE:HG23	27:BD:104:TYR:O	2.14	0.47
27:BD:85:ASP:OD2	27:BD:88:ARG:NE	2.37	0.47
27:BD:90:ALA:C	27:BD:91:ARG:HH11	2.17	0.47
28:BE:53:PRO:HD2	28:BE:74:PRO:HA	1.97	0.47
28:BE:8:LYS:HB3	28:BE:24:THR:CG2	2.43	0.47
29:BF:106:ARG:CB	29:BF:106:ARG:HH21	2.27	0.47
29:BF:12:LEU:O	29:BF:14:PRO:N	2.48	0.47
30:BG:14:GLU:O	30:BG:17:PRO:HG2	2.15	0.47
24:BA:2306:C:N4	30:BG:45:GLU:HG2	2.30	0.47
31:BH:43:VAL:CG1	31:BH:44:VAL:H	2.25	0.47
24:BA:2751:G:O4'	31:BH:6:ARG:NH2	2.47	0.47
31:BH:98:LEU:HD22	31:BH:100:GLY:H	1.79	0.47
31:BH:9:ILE:HD13	31:BH:73:ALA:HB1	1.95	0.47
32:BK:7:GLU:O	32:BK:12:LEU:HA	2.13	0.47
33:BL:19:PRO:HG2	33:BL:22:PRO:HG2	1.96	0.47
33:BL:42:ASN:O	33:BL:46:ALA:CB	2.61	0.47
34:BM:104:LYS:O	34:BM:106:MET:N	2.47	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:BM:15:LEU:HD11	34:BM:137:LYS:O	2.14	0.47
34:BM:47:ALA:O	34:BM:48:MET:O	2.33	0.47
35:BN:48:PRO:O	35:BN:49:ARG:C	2.52	0.47
36:BO:126:VAL:HB	36:BO:146:VAL:CB	2.43	0.47
38:BQ:51:LEU:O	38:BQ:52:ILE:C	2.50	0.47
38:BQ:90:ARG:HB2	38:BQ:94:TYR:CE2	2.49	0.47
41:BT:37:GLU:O	41:BT:39:LEU:N	2.47	0.47
41:BT:50:ARG:NH1	41:BT:50:ARG:CB	2.57	0.47
24:BA:1152:C:OP1	41:BT:81:HIS:ND1	2.47	0.47
44:BW:90:GLU:O	44:BW:93:GLU:HG2	2.14	0.47
45:BX:10:GLY:N	45:BX:110:GLU:OE2	2.48	0.47
45:BX:15:VAL:HG12	45:BX:16:ALA:N	2.30	0.47
46:BY:102:LEU:HB2	46:BY:124:ILE:CA	2.41	0.47
46:BY:95:PRO:HG2	46:BY:131:ARG:CD	2.44	0.47
46:BY:153:SER:O	46:BY:154:ASP:C	2.52	0.47
3:AD:14:A:C2	3:AD:15:G:N7	2.82	0.47
24:BA:2127:G:C5	24:BA:2162:G:N1	2.82	0.47
26:BC:8:ARG:NH1	26:BC:11:LEU:CD2	2.78	0.47
24:BA:2176:A:O2'	26:BC:215:THR:HG21	2.14	0.47
1:AA:1027:C:OP2	1:AA:1028:C:OP2	2.32	0.47
1:AA:1134:G:C6	1:AA:1141:C:N4	2.82	0.47
1:AA:1214:C:H4'	1:AA:1215:G:OP2	2.12	0.47
1:AA:122:G:O5'	1:AA:122:G:H8	1.97	0.47
1:AA:1284:C:N1	1:AA:1285:A:N7	2.61	0.47
1:AA:1351:U:C2	1:AA:1352:C:C5	3.03	0.47
1:AA:1497:G:H2'	1:AA:1498:U:C6	2.49	0.47
1:AA:1506:U:H3'	1:AA:1507:A:C5'	2.45	0.47
1:AA:265:G:N9	1:AA:267:C:C5	2.83	0.47
1:AA:276:G:O2'	1:AA:277:C:H5'	2.14	0.47
1:AA:303:A:O2'	1:AA:304:U:H5'	2.15	0.47
1:AA:109:A:N6	1:AA:326:G:N1	2.62	0.47
1:AA:393:A:N6	1:AA:394:G:O6	2.47	0.47
1:AA:587:G:N2	1:AA:754:C:OP2	2.47	0.47
1:AA:706:A:H4'	13:AN:22:HIS:ND1	2.30	0.47
1:AA:657:G:N2	1:AA:750:G:C8	2.83	0.47
1:AA:790:A:OP1	3:AC:38:A:O2'	2.25	0.47
1:AA:889:A:H4'	1:AA:890:G:C5'	2.44	0.47
1:AA:900:A:H62	1:AA:901:A:N6	2.13	0.47
1:AA:813:U:OP1	1:AA:904:C:H5'	2.14	0.47
1:AA:933:G:O5'	1:AA:933:G:H8	1.98	0.47
1:AA:952:U:O2'	15:AP:126:LYS:OXT	2.32	0.47
1:AA:991:U:O2'	1:AA:993:G:H8	1.92	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:75:C:OP2	24:BA:2602:A:H8	1.98	0.47
4:AE:168:THR:O	4:AE:169:LYS:HB2	2.15	0.47
4:AE:218:ALA:O	4:AE:219:VAL:C	2.52	0.47
4:AE:80:ILE:CG2	4:AE:81:VAL:N	2.78	0.47
5:AF:84:ILE:CG1	5:AF:101:LEU:HD13	2.43	0.47
5:AF:33:LEU:CD2	5:AF:36:ASP:OD1	2.63	0.47
5:AF:63:ASN:O	5:AF:64:VAL:HB	2.15	0.47
5:AF:6:HIS:CB	16:AQ:49:HIS:ND1	2.77	0.47
6:AG:3:ARG:HG3	6:AG:118:ARG:NE	2.30	0.47
6:AG:83:SER:N	6:AG:89:THR:HG23	2.29	0.47
7:AH:17:ALA:CA	7:AH:26:PHE:HD2	2.27	0.47
7:AH:37:ARG:HG2	7:AH:111:GLU:O	2.14	0.47
7:AH:59:GLY:CA	7:AH:63:ARG:HH21	2.27	0.47
7:AH:65:ASN:O	7:AH:65:ASN:CG	2.53	0.47
8:AI:3:ARG:CA	8:AI:67:MET:CE	2.84	0.47
8:AI:4:TYR:N	8:AI:67:MET:HE2	2.29	0.47
8:AI:76:ALA:CB	8:AI:80:ARG:CZ	2.92	0.47
9:AJ:15:ASP:HB3	9:AJ:19:GLY:N	2.30	0.47
9:AJ:47:CYS:HA	9:AJ:50:ILE:CG1	2.43	0.47
10:AK:6:ILE:HD12	10:AK:85:ARG:CZ	2.44	0.47
10:AK:6:ILE:HG23	10:AK:85:ARG:NH1	2.30	0.47
12:AM:49:VAL:O	12:AM:60:ARG:CB	2.62	0.47
13:AN:106:LYS:CG	13:AN:107:SER:N	2.77	0.47
1:AA:551:U:C5'	14:AO:119:LYS:NZ	2.61	0.47
14:AO:119:LYS:O	14:AO:120:TYR:HB2	2.15	0.47
15:AP:2:ALA:HB3	15:AP:4:ILE:CD1	2.41	0.47
15:AP:66:LEU:CA	15:AP:70:LEU:HB2	2.45	0.47
12:AM:47:PHE:CE2	16:AQ:37:PHE:CZ	3.02	0.47
17:AR:34:LEU:HD12	17:AR:38:ARG:NE	2.29	0.47
1:AA:721:G:OP2	20:AU:63:GLN:HG2	2.15	0.47
20:AU:70:ILE:O	20:AU:74:ARG:CD	2.59	0.47
20:AU:74:ARG:H	20:AU:74:ARG:CD	2.28	0.47
20:AU:74:ARG:NH1	20:AU:81:PHE:CB	2.78	0.47
22:AW:98:PRO:O	22:AW:99:LEU:O	2.32	0.47
49:B2:26:LEU:HG	49:B2:35:ARG:HH12	1.73	0.47
50:B3:7:PRO:HG2	50:B3:60:GLN:CG	2.44	0.47
51:B4:56:LYS:CG	51:B4:57:VAL:HG13	2.44	0.47
54:B7:51:ALA:C	54:B7:53:PRO:HD2	2.35	0.47
54:B7:5:LYS:HE3	54:B7:10:ALA:HB3	1.96	0.47
54:B7:8:LYS:O	54:B7:9:GLY:C	2.53	0.47
24:BA:1044:G:H21	24:BA:1111:A:C4'	2.26	0.47
24:BA:116:C:C2'	24:BA:117:G:O5'	2.62	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1186:G:H2'	24:BA:1187:G:O4'	2.14	0.47
24:BA:1259:G:C4	24:BA:1260:G:C8	3.03	0.47
24:BA:1294:U:H2'	24:BA:1295:C:H5'	1.96	0.47
24:BA:1439:A:C8	24:BA:1440:G:C8	3.03	0.47
24:BA:1517:G:H2'	24:BA:1518:C:O4'	2.14	0.47
24:BA:1475:G:C8	24:BA:1517:G:N2	2.83	0.47
24:BA:1635:G:C8	24:BA:1635:G:O5'	2.67	0.47
24:BA:1637:A:C6	24:BA:1638:C:C4	3.03	0.47
24:BA:1706:U:N3	24:BA:1757:U:H5''	2.21	0.47
24:BA:1774:C:H5	24:BA:1775:U:C5	2.26	0.47
24:BA:1809:A:H2'	24:BA:1810:A:C5'	2.35	0.47
24:BA:1915:U:OP2	24:BA:1915:U:C3'	2.62	0.47
24:BA:1935:G:C2	24:BA:1962:C:C2	3.02	0.47
24:BA:1949:G:C8	24:BA:1950:G:C8	3.03	0.47
24:BA:2048:G:N2	24:BA:2049:G:C4	2.82	0.47
24:BA:2063:C:C3'	24:BA:2064:C:C5'	2.87	0.47
24:BA:2088:G:N1	24:BA:2089:U:C2	2.83	0.47
24:BA:2095:C:C2'	24:BA:2096:U:H5'	2.45	0.47
24:BA:215:G:C4'	24:BA:216:A:H4'	2.44	0.47
24:BA:2226:C:C2'	24:BA:2227:A:H5'	2.44	0.47
24:BA:2246:G:H2'	24:BA:2247:A:N7	2.29	0.47
24:BA:2246:G:N2	24:BA:2247:A:C2	2.83	0.47
24:BA:2278:A:C2	24:BA:2279:G:C4	3.03	0.47
24:BA:2285:C:H1'	24:BA:2288:A:C5	2.49	0.47
24:BA:2288:A:H5'	24:BA:2289:G:OP2	2.15	0.47
24:BA:2367:G:O6	24:BA:2382:G:O6	2.33	0.47
24:BA:2422:A:HO2'	24:BA:2424:C:H5	1.58	0.47
24:BA:2251:G:C2	24:BA:2450:A:H1'	2.49	0.47
24:BA:245:G:C6	24:BA:246:C:C5	3.03	0.47
24:BA:2482:G:H2'	24:BA:2483:C:O4'	2.14	0.47
24:BA:2505:G:O2'	24:BA:2506:U:H5''	2.14	0.47
24:BA:2539:C:HO2'	24:BA:2540:C:H5'	1.77	0.47
24:BA:2601:C:C2	24:BA:2603:G:N7	2.82	0.47
24:BA:2619:C:C5'	28:BE:152:LYS:CA	2.90	0.47
24:BA:2824:C:C4	24:BA:2825:C:C2	3.03	0.47
24:BA:2839:G:C5	24:BA:2840:C:C4	3.03	0.47
24:BA:295:G:N2	24:BA:344:G:C1'	2.78	0.47
24:BA:301:G:C8	24:BA:317:G:N2	2.83	0.47
24:BA:364:C:H2'	24:BA:365:C:H6	1.62	0.47
24:BA:500:G:H2'	24:BA:501:A:C3'	2.43	0.47
24:BA:629:G:OP1	24:BA:649:G:O2'	2.12	0.47
24:BA:7:G:H2'	24:BA:8:A:C8	2.47	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:894:C:C2	24:BA:895:U:C5	3.02	0.47
24:BA:900:A:H8	24:BA:901:A:C8	2.26	0.47
24:BA:969:U:N3	24:BA:970:C:C6	2.82	0.47
24:BA:994:C:O2	24:BA:996:A:C8	2.68	0.47
25:BB:16:G:C5	25:BB:17:C:C5	3.02	0.47
27:BD:117:VAL:HG13	27:BD:129:ASN:CA	2.45	0.47
27:BD:136:ILE:HB	27:BD:168:ARG:CZ	2.42	0.47
27:BD:54:ARG:HB2	27:BD:218:ARG:HD2	1.96	0.47
27:BD:79:VAL:HG12	27:BD:81:ALA:N	2.28	0.47
28:BE:136:ARG:HD3	28:BE:136:ARG:C	2.34	0.47
28:BE:136:ARG:NH2	28:BE:137:HIS:HA	2.29	0.47
28:BE:113:PHE:C	28:BE:158:GLY:HA2	2.35	0.47
28:BE:102:VAL:CG2	28:BE:200:GLU:OE1	2.61	0.47
28:BE:59:VAL:O	28:BE:62:PRO:HD2	2.14	0.47
28:BE:8:LYS:HD2	28:BE:9:VAL:HG22	1.91	0.47
29:BF:35:GLU:CA	29:BF:38:ARG:HD2	2.44	0.47
15:AP:3:ARG:NE	30:BG:140:ILE:HB	2.30	0.47
30:BG:35:GLU:HG2	30:BG:36:LYS:N	2.28	0.47
31:BH:105:LEU:CG	31:BH:113:VAL:HG11	2.44	0.47
31:BH:31:GLY:HA2	31:BH:136:ILE:HD11	1.96	0.47
33:BL:54:PRO:HG3	33:BL:72:PRO:HA	1.95	0.47
35:BN:1:MET:SD	35:BN:2:ILE:HG12	2.55	0.47
36:BO:73:GLY:C	36:BO:107:LYS:HE3	2.35	0.47
36:BO:114:ILE:HD11	36:BO:123:LEU:CG	2.44	0.47
36:BO:72:PRO:CB	36:BO:111:ARG:CB	2.74	0.47
37:BP:134:ARG:NE	37:BP:137:TYR:N	2.62	0.47
37:BP:79:LEU:O	37:BP:80:GLU:CB	2.63	0.47
24:BA:956:G:P	37:BP:87:LYS:HG3	2.54	0.47
38:BQ:102:GLU:HA	38:BQ:102:GLU:OE2	2.14	0.47
38:BQ:28:LEU:HD22	38:BQ:34:ILE:HG12	1.97	0.47
39:BR:39:ILE:HB	39:BR:48:LEU:HB2	1.97	0.47
40:BS:26:ASP:OD2	40:BS:100:TYR:CE2	2.68	0.47
42:BU:6:LYS:CE	42:BU:10:LYS:HB3	2.44	0.47
42:BU:22:VAL:O	42:BU:93:GLU:CB	2.62	0.47
43:BV:33:ARG:O	43:BV:34:ASN:C	2.51	0.47
45:BX:49:VAL:N	45:BX:56:PRO:HG3	2.29	0.47
46:BY:151:HIS:CD2	46:BY:170:THR:N	2.83	0.47
46:BY:151:HIS:HB3	46:BY:170:THR:CA	2.44	0.47
24:BA:857:C:O2'	47:BZ:23:VAL:CB	2.63	0.47
47:BZ:27:GLU:HA	47:BZ:67:VAL:HG11	1.96	0.47
47:BZ:83:PRO:O	47:BZ:84:LEU:C	2.53	0.47
32:BK:63:ALA:HB1	32:BK:67:ARG:HH21	1.78	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2113:U:H3	24:BA:2169:A:H61	1.58	0.47
24:BA:2168:G:N2	24:BA:2171:A:C8	2.82	0.47
26:BC:129:ARG:C	26:BC:130:ILE:HD12	2.35	0.47
1:AA:511:C:O2'	1:AA:512:U:C6	2.52	0.47
24:BA:487:C:H6	24:BA:487:C:H3'	1.80	0.47
2:A1:39:U:O3'	2:A1:40:U:C6	2.67	0.47
1:AA:1005:A:C5	1:AA:1026:G:N2	2.82	0.47
1:AA:993:G:N1	1:AA:1046:A:C6	2.83	0.47
1:AA:1150:U:H5'	1:AA:1280:A:H2	1.76	0.47
1:AA:115:G:O2'	1:AA:116:A:P	2.72	0.47
1:AA:1161:C:O2	1:AA:1162:C:C5	2.67	0.47
1:AA:1275:A:O2'	1:AA:1276:G:H5'	2.14	0.47
1:AA:1301:U:O4	1:AA:1303:C:C2	2.68	0.47
1:AA:1308:U:H2'	1:AA:1309:G:C8	2.49	0.47
1:AA:1327:C:O2'	1:AA:1328:C:H5'	2.15	0.47
1:AA:1390:U:C2	1:AA:1391:U:C5	3.03	0.47
1:AA:1443:G:O2'	1:AA:1447:G:OP1	2.33	0.47
1:AA:237:C:OP1	19:AT:40:LYS:CE	2.62	0.47
1:AA:261:U:O4	22:AW:79:ARG:NH2	2.46	0.47
1:AA:266:G:O2'	1:AA:268:C:OP2	2.30	0.47
1:AA:50:A:C2	1:AA:360:A:O2'	2.64	0.47
1:AA:524:G:H2'	1:AA:525:C:O4'	2.15	0.47
1:AA:60:A:HO2'	1:AA:61:G:P	2.37	0.47
1:AA:622:A:N3	1:AA:623:C:O4'	2.48	0.47
1:AA:627:G:H2'	1:AA:628:G:C8	2.47	0.47
1:AA:767:A:N6	1:AA:813:U:C2	2.83	0.47
1:AA:575:G:C6	1:AA:821:G:N7	2.83	0.47
1:AA:877:C:H2'	1:AA:878:G:C8	2.50	0.47
1:AA:997:U:C4	1:AA:998:G:N7	2.83	0.47
3:AD:32:U:HO2'	9:AJ:77:SER:CB	2.28	0.47
4:AE:15:VAL:O	4:AE:16:HIS:CB	2.61	0.47
5:AF:180:ALA:HB1	5:AF:203:PHE:HE1	1.80	0.47
6:AG:133:VAL:HG21	6:AG:138:TYR:CE1	2.50	0.47
9:AJ:121:ALA:O	9:AJ:122:HIS:C	2.52	0.47
9:AJ:44:TYR:O	9:AJ:45:ASP:C	2.52	0.47
9:AJ:95:ARG:O	9:AJ:97:GLN:N	2.47	0.47
10:AK:123:GLU:O	10:AK:124:ALA:C	2.51	0.47
10:AK:14:ARG:HB3	10:AK:14:ARG:CZ	2.42	0.47
10:AK:5:PRO:HA	10:AK:8:ASP:CB	2.42	0.47
10:AK:92:ARG:CD	10:AK:92:ARG:N	2.75	0.47
12:AM:46:ARG:NH1	16:AQ:59:ALA:CB	2.77	0.47
12:AM:78:ASN:O	12:AM:79:ARG:C	2.51	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AM:80:LYS:O	12:AM:80:LYS:HD3	2.15	0.47
14:AO:86:ARG:HD3	14:AO:101:VAL:HG11	1.96	0.47
14:AO:117:ARG:NH1	14:AO:117:ARG:CG	2.74	0.47
15:AP:15:VAL:HG11	15:AP:34:LEU:HD21	1.96	0.47
16:AQ:13:THR:C	16:AQ:15:LYS:N	2.66	0.47
17:AR:33:THR:O	17:AR:37:ASN:ND2	2.46	0.47
1:AA:667:G:H4'	17:AR:51:HIS:CG	2.49	0.47
1:AA:230:G:H5'	18:AS:23:ASP:OD2	2.14	0.47
19:AT:40:LYS:NZ	19:AT:42:TYR:HE1	2.12	0.47
1:AA:279:A:C2	19:AT:98:LEU:HG	2.47	0.47
21:AV:80:TYR:CE1	21:AV:81:ARG:HG3	2.49	0.47
22:AW:67:ALA:O	22:AW:68:LYS:C	2.52	0.47
23:AX:14:TRP:O	23:AX:15:ARG:C	2.52	0.47
48:B1:27:LEU:CG	48:B1:48:LEU:HD23	2.44	0.47
49:B2:23:LEU:HD12	49:B2:50:VAL:CG2	2.45	0.47
49:B2:28:LEU:CD2	49:B2:28:LEU:N	2.66	0.47
24:BA:2286:A:N7	52:B5:31:PRO:CD	2.77	0.47
24:BA:1084:A:C3'	24:BA:1085:A:H5'	2.45	0.47
24:BA:1097:U:H2'	24:BA:1098:A:O4'	2.14	0.47
24:BA:1228:G:C6	24:BA:1229:G:C5	3.03	0.47
24:BA:1326:U:O4	24:BA:1648:C:O2'	2.31	0.47
24:BA:1444(A):A:N6	24:BA:1461:G:H5''	2.29	0.47
24:BA:1540:G:OP1	24:BA:1540:G:C4'	2.62	0.47
24:BA:1613:G:H2'	24:BA:1617:C:N4	2.29	0.47
24:BA:1637:A:H2'	24:BA:1638:C:H6	1.78	0.47
24:BA:1727:U:C4	24:BA:1730:U:C4	3.03	0.47
24:BA:1731:G:N3	24:BA:1731:G:H2'	2.29	0.47
24:BA:1799:G:C6	24:BA:1819:A:C8	3.03	0.47
24:BA:1826:G:OP1	27:BD:233:HIS:CD2	2.68	0.47
24:BA:1924:C:C2	24:BA:1925:C:C6	3.01	0.47
24:BA:1926:U:H2'	24:BA:1928:A:OP2	2.15	0.47
24:BA:1936:A:N3	24:BA:1940:U:C2	2.82	0.47
24:BA:1952:A:C8	24:BA:1953:A:C4	3.03	0.47
24:BA:195:A:H8	24:BA:195:A:O5'	1.97	0.47
24:BA:1968:G:O2'	24:BA:1969:A:O5'	2.28	0.47
24:BA:1655:A:N6	24:BA:2005:A:C2'	2.78	0.47
24:BA:204:A:C4	24:BA:206:U:N3	2.83	0.47
24:BA:2070:G:O2'	24:BA:2071:A:H5'	2.14	0.47
24:BA:2195:C:O2	24:BA:2196:C:H1'	2.15	0.47
24:BA:226:G:H21	24:BA:228:A:N6	2.11	0.47
24:BA:245:G:C5	24:BA:246:C:C5	2.96	0.47
24:BA:2487:G:H2'	24:BA:2488:A:O5'	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2528:U:O2	24:BA:2536:G:N2	2.47	0.47
24:BA:2582:G:H21	24:BA:2583:G:H1'	1.68	0.47
24:BA:2598:A:OP1	27:BD:234:GLY:CA	2.51	0.47
24:BA:2626:C:C2'	24:BA:2627:G:O4'	2.61	0.47
24:BA:262:A:H2'	24:BA:263:C:C6	2.50	0.47
24:BA:2640:G:H4'	34:BM:75:TYR:CZ	2.49	0.47
24:BA:265:A:H2	24:BA:281:G:O5'	1.97	0.47
24:BA:2674:G:C5	24:BA:2675:A:N7	2.83	0.47
24:BA:2701:C:C3'	24:BA:2702:U:C5'	2.80	0.47
24:BA:270(W):G:C4	24:BA:270(X):G:H8	2.32	0.47
24:BA:2723:C:OP2	28:BE:109:LYS:NZ	2.46	0.47
24:BA:2731:G:H22	24:BA:2732:G:N2	2.12	0.47
24:BA:2745:C:H2'	24:BA:2746:U:H6	1.80	0.47
24:BA:298:G:O6	24:BA:338:G:O4'	2.32	0.47
24:BA:389:G:OP2	50:B3:24:THR:CG2	2.58	0.47
24:BA:514:A:C2	24:BA:515:A:C1'	2.94	0.47
24:BA:640:C:C2'	24:BA:641:C:H5'	2.37	0.47
24:BA:629:G:C5'	24:BA:649:G:N3	2.77	0.47
24:BA:653:A:H5'	24:BA:654:A:H4'	1.96	0.47
24:BA:669:G:C5	24:BA:801:G:C6	3.03	0.47
24:BA:679:C:O2	24:BA:680:G:C8	2.67	0.47
24:BA:783:A:H8	27:BD:227:ASN:ND2	2.13	0.47
24:BA:819:A:C2	24:BA:820:A:C5	3.02	0.47
24:BA:831:G:N3	24:BA:831:G:H2'	2.29	0.47
24:BA:882:G:C2	24:BA:895:U:C2	3.03	0.47
24:BA:949:C:N3	24:BA:950:G:N7	2.62	0.47
24:BA:951:C:HO2'	24:BA:952:G:H5'	1.78	0.47
25:BB:118:G:H2'	25:BB:119:A:H8	1.80	0.47
27:BD:105:ILE:O	27:BD:106:ILE:C	2.52	0.47
24:BA:1819:A:C5	27:BD:179:SER:HB3	2.49	0.47
27:BD:23:GLU:O	27:BD:204:ILE:HD11	2.15	0.47
27:BD:246:PRO:CG	27:BD:252:TRP:CE3	2.86	0.47
27:BD:9:TYR:CE1	27:BD:25:THR:HG21	2.48	0.47
27:BD:60:ARG:CA	27:BD:62:TYR:CZ	2.94	0.47
27:BD:90:ALA:HA	27:BD:91:ARG:HH11	1.74	0.47
28:BE:154:LYS:CD	28:BE:154:LYS:C	2.80	0.47
28:BE:171:GLU:H	28:BE:185:LYS:HZ3	1.61	0.47
28:BE:176:ILE:CD1	28:BE:179:GLU:N	2.78	0.47
28:BE:198:VAL:HG12	28:BE:199:ARG:N	2.28	0.47
28:BE:12:THR:HA	28:BE:21:VAL:HG23	1.96	0.47
28:BE:61:ARG:CB	28:BE:62:PRO:HD3	2.44	0.47
28:BE:47:VAL:HG13	28:BE:78:LEU:C	2.34	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:BE:2:LYS:CE	28:BE:83:ASP:HB2	2.45	0.47
29:BF:137:LYS:HZ3	29:BF:137:LYS:HA	1.79	0.47
29:BF:157:VAL:CG2	29:BF:157:VAL:O	2.62	0.47
29:BF:39:TRP:HB2	29:BF:101:LEU:HG	1.95	0.47
30:BG:115:ARG:HG3	30:BG:115:ARG:HH21	1.80	0.47
30:BG:80:PHE:CD1	30:BG:81:LYS:N	2.68	0.47
31:BH:155:SER:O	31:BH:158:HIS:O	2.32	0.47
31:BH:26:VAL:HG21	31:BH:35:VAL:HG21	1.97	0.47
33:BL:35:MET:O	33:BL:35:MET:SD	2.73	0.47
33:BL:39:LYS:O	33:BL:42:ASN:HB2	2.15	0.47
35:BN:58:VAL:O	35:BN:86:ILE:HB	2.14	0.47
35:BN:64:ARG:NH2	35:BN:65:THR:H	2.12	0.47
35:BN:80:ASP:CG	35:BN:82:ASN:OD1	2.53	0.47
35:BN:98:VAL:O	35:BN:99:PHE:HB2	2.14	0.47
36:BO:128:HIS:ND1	36:BO:128:HIS:N	2.63	0.47
36:BO:46:LYS:HZ1	36:BO:50:ARG:HH11	1.63	0.47
36:BO:7:ARG:N	36:BO:8:PRO:CD	2.77	0.47
37:BP:130:LYS:HE3	37:BP:131:ILE:O	2.15	0.47
37:BP:16:ARG:C	37:BP:17:LEU:HD12	2.35	0.47
37:BP:43:THR:OG1	37:BP:46:GLN:N	2.48	0.47
37:BP:44:ALA:O	37:BP:48:GLU:OE2	2.31	0.47
38:BQ:98:LEU:C	38:BQ:112:ALA:HB1	2.28	0.47
39:BR:31:SER:C	39:BR:97:ARG:NH2	2.68	0.47
40:BS:29:ARG:CA	40:BS:51:ARG:HA	2.40	0.47
41:BT:33:ARG:NH1	41:BT:33:ARG:HB2	2.28	0.47
41:BT:74:LEU:C	41:BT:78:THR:OG1	2.52	0.47
41:BT:89:GLU:CB	42:BU:51:VAL:HB	2.43	0.47
42:BU:40:LEU:HD11	42:BU:55:ALA:CA	2.41	0.47
42:BU:43:GLU:C	42:BU:44:LYS:CD	2.83	0.47
42:BU:61:VAL:O	42:BU:99:ILE:O	2.32	0.47
24:BA:993:G:C1'	42:BU:91:TYR:CE2	2.87	0.47
44:BW:57:LEU:HD23	44:BW:57:LEU:C	2.35	0.47
45:BX:9:LYS:HD2	45:BX:110:GLU:CD	2.35	0.47
45:BX:67:LEU:HD11	45:BX:71:LYS:HE2	1.95	0.47
46:BY:95:PRO:HD2	46:BY:130:PRO:CA	2.44	0.47
46:BY:171:ILE:C	46:BY:171:ILE:HD12	2.35	0.47
47:BZ:21:LEU:HD12	47:BZ:39:ARG:CB	2.39	0.47
47:BZ:56:ASP:CG	47:BZ:58:THR:HB	2.34	0.47
47:BZ:37:LEU:CD2	47:BZ:60:PHE:HA	2.43	0.47
32:BK:76:THR:CG2	32:BK:141:LYS:HE2	2.45	0.47
32:BK:60:GLU:O	32:BK:63:ALA:HB3	2.15	0.47
24:BA:2128:C:N4	24:BA:2129:C:C4	2.83	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2132:U:C5'	24:BA:2133:G:H5'	2.42	0.47
24:BA:2142:C:C2	24:BA:2143:C:C5	3.02	0.47
26:BC:77:ILE:HD12	26:BC:123:VAL:HG11	1.92	0.47
26:BC:7:TYR:HE1	26:BC:10:LEU:HG	1.80	0.47
24:BA:1488:G:H3'	24:BA:1489:U:H5'	1.94	0.47
24:BA:1582:C:N3	24:BA:1583:A:N7	2.62	0.47
33:BL:98:ARG:HH11	33:BL:139:VAL:HG11	1.80	0.47
2:A1:22:C:C2'	2:A1:23:A:C8	2.91	0.47
1:AA:443:C:C2	1:AA:492:G:C2	3.02	0.47
3:AD:66:U:H2'	3:AD:67:C:C6	2.49	0.47
24:BA:2182:G:H2'	24:BA:2183:C:H6	1.80	0.47
1:AA:1117:G:H5'	1:AA:1118:C:OP2	2.14	0.47
1:AA:113:G:H2'	1:AA:114:U:H6	1.76	0.47
1:AA:1181:G:H2'	1:AA:1182:G:C4'	2.44	0.47
1:AA:1202:G:C4	16:AQ:42:ILE:CD1	2.94	0.47
1:AA:1215:G:H2'	1:AA:1215:G:N3	2.28	0.47
1:AA:1302:U:C3'	1:AA:1303:C:H5'	2.45	0.47
1:AA:1335:C:H5''	1:AA:1336:C:H5'	1.95	0.47
1:AA:1361:G:O5'	1:AA:1361:G:C8	2.68	0.47
1:AA:1396:A:H4'	1:AA:1398:A:O4'	2.15	0.47
1:AA:193:C:O2'	1:AA:194:C:H5'	2.14	0.47
1:AA:67:C:OP1	1:AA:199:G:H5''	2.14	0.47
1:AA:290:C:C6	1:AA:290:C:C3'	2.98	0.47
1:AA:355:C:H2'	1:AA:356:A:C8	2.50	0.47
1:AA:408:A:N6	1:AA:409:G:O6	2.48	0.47
1:AA:409:G:C4	1:AA:410:G:C8	3.02	0.47
1:AA:414:A:H62	1:AA:430:A:N6	2.12	0.47
1:AA:450:G:H5'	18:AS:43:LYS:NZ	2.30	0.47
1:AA:528:C:O4'	1:AA:535:A:C6	2.68	0.47
1:AA:622:A:C2	1:AA:623:C:C1'	2.98	0.47
1:AA:640:A:C2'	1:AA:641:U:C5'	2.91	0.47
1:AA:68:G:O5'	1:AA:68:G:H8	1.98	0.47
1:AA:783:C:C2'	1:AA:784:C:H5'	2.42	0.47
1:AA:801:U:H2'	1:AA:802:A:C8	2.50	0.47
1:AA:832:C:N3	1:AA:855:G:C6	2.83	0.47
1:AA:873:A:O4'	1:AA:873:A:P	2.73	0.47
1:AA:874:G:H2'	1:AA:875:C:O5'	2.15	0.47
1:AA:22:G:C4'	1:AA:885:G:O4'	2.62	0.47
1:AA:891:U:C5	1:AA:906:G:N2	2.82	0.47
1:AA:901:A:N3	1:AA:902:G:O4'	2.48	0.47
1:AA:92:G:C2	1:AA:93:U:C2	3.03	0.47
3:AB:39:U:C6	3:AB:39:U:O5'	2.67	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AD:36:A:H3'	3:AD:37:A:C8	2.49	0.47
4:AE:114:ARG:NH1	4:AE:141:GLU:HG3	2.29	0.47
4:AE:160:ASP:HB3	4:AE:182:ILE:CG2	2.35	0.47
4:AE:213:LEU:C	4:AE:213:LEU:CD2	2.82	0.47
4:AE:95:GLN:HG3	4:AE:148:TYR:HB2	1.91	0.47
5:AF:205:GLY:O	5:AF:206:GLU:CB	2.54	0.47
6:AG:54:TYR:C	6:AG:56:VAL:N	2.67	0.47
7:AH:19:MET:SD	7:AH:24:ARG:HG2	2.54	0.47
7:AH:48:ALA:HB1	7:AH:53:LEU:CD1	2.40	0.47
8:AI:30:LEU:C	8:AI:35:ALA:HB3	2.35	0.47
9:AJ:68:ASN:ND2	9:AJ:128:ALA:CA	2.78	0.47
10:AK:110:ALA:HA	10:AK:136:GLU:CB	2.40	0.47
10:AK:119:LEU:CD2	10:AK:119:LEU:N	2.72	0.47
10:AK:75:ARG:CB	10:AK:75:ARG:CZ	2.79	0.47
13:AN:31:THR:OG1	13:AN:42:TRP:CB	2.63	0.47
15:AP:10:PRO:CG	15:AP:18:ALA:CA	2.91	0.47
15:AP:75:ALA:O	15:AP:79:LYS:HB2	2.15	0.47
1:AA:625:G:H4'	18:AS:16:HIS:CG	2.50	0.47
18:AS:21:VAL:CG2	18:AS:59:TRP:HE1	2.21	0.47
18:AS:60:LEU:O	18:AS:61:SER:C	2.53	0.47
20:AU:52:PRO:C	20:AU:54:ARG:N	2.67	0.47
20:AU:22:VAL:HG22	20:AU:55:ARG:HH12	1.80	0.47
21:AV:50:ALA:HA	21:AV:58:VAL:O	2.14	0.47
53:B6:2:LYS:C	53:B6:4:THR:N	2.66	0.47
24:BA:459:U:OP2	53:B6:40:TRP:N	2.48	0.47
53:B6:41:ARG:HD3	53:B6:42:LEU:H	1.79	0.47
54:B7:22:VAL:HB	54:B7:48:PHE:CZ	2.49	0.47
24:BA:1096:A:N6	33:BL:30:HIS:CB	2.78	0.47
24:BA:1174:A:C2	24:BA:1176:G:O5'	2.67	0.47
24:BA:1197:G:C4	24:BA:1198:U:C6	3.03	0.47
24:BA:443:A:O4'	24:BA:1201:C:H4'	2.15	0.47
24:BA:1345:C:C2'	24:BA:1346:G:H5'	2.44	0.47
24:BA:1372:U:C6	24:BA:1372:U:C3'	2.97	0.47
24:BA:1477:A:H2	24:BA:1516:U:O2	1.96	0.47
24:BA:1299:G:N3	24:BA:1640:C:H5	2.12	0.47
24:BA:1684:C:C2	24:BA:1685:C:C5	3.03	0.47
24:BA:180:G:OP1	53:B6:32:LYS:CD	2.62	0.47
24:BA:1853:A:H2	24:BA:2087:G:N3	2.12	0.47
24:BA:191:A:C2	24:BA:799:G:N2	2.83	0.47
24:BA:1949:G:O2'	24:BA:1950:G:C5'	2.59	0.47
24:BA:2040:C:N3	24:BA:2041:U:C4	2.83	0.47
24:BA:2081:C:C2'	24:BA:2082:A:H5'	2.44	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2085:C:O2'	24:BA:2086:U:H5'	2.13	0.47
24:BA:2213:U:H5'	24:BA:2215:G:C6	2.49	0.47
24:BA:2279:G:O2'	24:BA:2280:G:O5'	2.28	0.47
24:BA:2317:C:H2'	24:BA:2318:G:C8	2.50	0.47
24:BA:2371:G:O2'	24:BA:2372:G:H1'	2.14	0.47
24:BA:2371:G:O2'	24:BA:2372:G:O4'	2.31	0.47
24:BA:2404:C:N3	24:BA:2414:G:C2	2.83	0.47
24:BA:2437:U:H2'	24:BA:2438:U:C5	2.49	0.47
24:BA:2476:A:C2	24:BA:2481:G:N2	2.78	0.47
24:BA:2482:G:C5	24:BA:2483:C:C5	3.02	0.47
24:BA:2496:C:OP1	37:BP:82:ARG:CG	2.39	0.47
24:BA:246:C:N4	24:BA:252:G:N1	2.63	0.47
24:BA:2572:A:H3'	28:BE:144:ARG:HH21	1.80	0.47
24:BA:2633:G:N1	24:BA:2634:G:C5	2.83	0.47
24:BA:270(N):G:C8	24:BA:270(O):U:C6	3.02	0.47
24:BA:2732:G:C8	24:BA:2732:G:OP2	2.68	0.47
24:BA:2805:G:H2'	24:BA:2807:G:C4'	2.44	0.47
24:BA:2823:A:O5'	24:BA:2824:C:OP2	2.32	0.47
24:BA:2826:A:H2'	24:BA:2827:C:O5'	2.15	0.47
24:BA:2817:G:N2	24:BA:2830:G:H1'	2.29	0.47
24:BA:37:C:HO2'	29:BF:50:SER:CB	2.26	0.47
24:BA:511:U:OP2	24:BA:512:G:C5	2.68	0.47
24:BA:577:G:H2'	24:BA:578:A:O4'	2.15	0.47
24:BA:636:G:H2'	36:BO:113:LYS:NZ	2.29	0.47
24:BA:638:G:H2'	24:BA:639:U:C4'	2.44	0.47
24:BA:65:C:C2	24:BA:66:C:H5	2.32	0.47
24:BA:774:A:C5	24:BA:775:G:C6	3.03	0.47
24:BA:94:G:O2'	48:B1:39:LEU:HD22	2.14	0.47
25:BB:103:U:H5''	25:BB:103:U:H6	1.79	0.47
25:BB:114:G:H1'	39:BR:38:GLN:HE21	1.72	0.47
25:BB:2:C:C2'	25:BB:3:C:O5'	2.63	0.47
25:BB:50:G:H5''	39:BR:61:ASN:HA	1.97	0.47
25:BB:58:A:O5'	25:BB:58:A:C8	2.60	0.47
25:BB:5:C:H2'	25:BB:6:C:C5	2.50	0.47
28:BE:120:TRP:CD1	28:BE:121:ASN:O	2.67	0.47
28:BE:49:LEU:CD1	28:BE:76:ARG:O	2.60	0.47
24:BA:2636:U:O2'	28:BE:79:ARG:NH2	2.48	0.47
28:BE:81:ILE:CG2	28:BE:82:ARG:H	2.25	0.47
29:BF:104:LYS:C	29:BF:108:LYS:NZ	2.68	0.47
31:BH:137:ASP:HB3	31:BH:140:LYS:CG	2.41	0.47
31:BH:85:LYS:HZ3	31:BH:142:GLY:CA	2.27	0.47
31:BH:73:ALA:O	31:BH:76:VAL:CG2	2.47	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BN:1:MET:SD	35:BN:2:ILE:CG1	3.02	0.47
24:BA:1995:U:O2'	35:BN:31:LYS:HE2	2.15	0.47
35:BN:22:ILE:CD1	35:BN:40:VAL:HG21	2.45	0.47
35:BN:64:ARG:NH2	35:BN:78:ARG:HH11	2.12	0.47
36:BO:18:ARG:C	36:BO:20:GLY:H	2.17	0.47
36:BO:78:PRO:HD2	36:BO:115:LEU:O	2.14	0.47
36:BO:80:TYR:CE1	36:BO:85:LEU:HD13	2.49	0.47
37:BP:125:LEU:N	37:BP:125:LEU:HD23	2.28	0.47
38:BQ:103:ARG:HB2	38:BQ:108:GLY:O	2.14	0.47
24:BA:1275:A:N3	38:BQ:16:HIS:ND1	2.63	0.47
39:BR:29:PHE:C	39:BR:30:ARG:HG2	2.34	0.47
39:BR:43:GLU:C	39:BR:45:GLY:N	2.67	0.47
40:BS:107:ASP:HB2	40:BS:108:ARG:HH11	1.79	0.47
24:BA:2876:G:H5'	40:BS:1:MET:N	2.29	0.47
40:BS:54:ARG:H	40:BS:64:ARG:CB	2.25	0.47
40:BS:56:GLY:C	40:BS:57:PHE:CD2	2.87	0.47
40:BS:64:ARG:CZ	40:BS:77:PRO:CA	2.92	0.47
40:BS:92:GLY:HA2	40:BS:93:ARG:NH2	2.29	0.47
24:BA:1755:A:N7	40:BS:98:LYS:NZ	2.63	0.47
24:BA:581:C:H5''	41:BT:32:PHE:CD2	2.50	0.47
41:BT:40:PHE:HB3	42:BU:78:LYS:CE	2.44	0.47
41:BT:46:ALA:O	41:BT:50:ARG:CD	2.53	0.47
41:BT:55:ARG:HA	41:BT:58:ARG:NE	2.30	0.47
41:BT:98:LEU:O	41:BT:99:ALA:C	2.52	0.47
42:BU:3:ALA:CA	42:BU:44:LYS:NZ	2.78	0.47
42:BU:69:LYS:CA	42:BU:92:THR:HB	2.44	0.47
42:BU:92:THR:OG1	42:BU:93:GLU:N	2.47	0.47
44:BW:36:LYS:HE3	44:BW:56:THR:OG1	2.14	0.47
44:BW:62:LYS:O	44:BW:63:LYS:CB	2.51	0.47
45:BX:32:PRO:CB	45:BX:34:LYS:HE3	2.44	0.47
45:BX:12:THR:CB	45:BX:71:LYS:HA	2.45	0.47
46:BY:128:VAL:O	46:BY:129:SER:HB2	2.14	0.47
2:A1:35:U:OP2	2:A1:35:U:C5	2.67	0.47
1:AA:1067:A:H4'	1:AA:1068:G:O5'	2.15	0.47
1:AA:1086:U:H2'	1:AA:1087:G:C8	2.49	0.47
1:AA:1138:G:C2	1:AA:1140:C:C5	3.02	0.47
1:AA:1184:G:N1	1:AA:1185:G:C6	2.82	0.47
1:AA:1185:G:H2'	1:AA:1186:G:C5'	2.45	0.47
1:AA:1200:C:C5'	1:AA:1202:G:OP1	2.62	0.47
1:AA:1277:C:O2'	1:AA:1279:A:H8	1.97	0.47
1:AA:1403:C:H1'	1:AA:1500:A:N1	2.29	0.47
1:AA:1492:A:H2'	1:AA:1493:A:C4	2.50	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:14:U:O2	1:AA:17:U:H5	1.98	0.47
1:AA:258:G:C5	1:AA:259:G:N7	2.83	0.47
1:AA:45:U:O2	1:AA:398:C:N3	2.47	0.47
1:AA:475:G:HO2'	1:AA:476:G:H8	1.60	0.47
1:AA:557:G:O3'	1:AA:558:G:O4'	2.32	0.47
1:AA:22:G:P	1:AA:561:U:O2	2.72	0.47
1:AA:587:G:N2	1:AA:755:G:C4	2.82	0.47
1:AA:611:A:C5	1:AA:612:C:C5	3.03	0.47
1:AA:68:G:C2	1:AA:69:G:H1'	2.49	0.47
1:AA:729:A:O2'	1:AA:730:G:H5'	2.15	0.47
1:AA:742:G:C2'	1:AA:743:U:H5'	2.45	0.47
1:AA:774:G:C4	1:AA:775:G:C8	3.02	0.47
1:AA:792:A:C2	1:AA:794:A:N1	2.83	0.47
1:AA:766:A:C8	1:AA:814:A:N6	2.82	0.47
1:AA:818:G:N2	1:AA:820:U:C5	2.81	0.47
1:AA:837:G:N1	1:AA:838:G:C5	2.83	0.47
1:AA:913:A:O2'	1:AA:914:A:O5'	2.32	0.47
1:AA:936:C:H2'	1:AA:937:A:H5'	1.94	0.47
1:AA:95:G:N2	1:AA:96:G:H1'	2.29	0.47
3:AC:74:C:H2'	3:AC:75:C:H4'	1.97	0.47
4:AE:102:LEU:CD2	4:AE:176:GLU:CB	2.82	0.47
4:AE:117:GLU:CD	4:AE:118:LEU:N	2.68	0.47
4:AE:184:VAL:HB	4:AE:198:ASP:CG	2.33	0.47
4:AE:44:LEU:H	4:AE:44:LEU:HD23	1.79	0.47
4:AE:61:LEU:O	4:AE:64:ARG:HD2	2.15	0.47
4:AE:97:TRP:HE3	4:AE:172:ILE:HB	1.80	0.47
5:AF:150:LYS:NZ	5:AF:152:ILE:HG21	2.29	0.47
1:AA:1057:G:H5'	5:AF:196:LEU:HA	1.97	0.47
5:AF:29:TYR:CG	16:AQ:36:PHE:HE1	2.32	0.47
5:AF:59:ARG:CZ	5:AF:64:VAL:HA	2.42	0.47
6:AG:35:ARG:O	6:AG:36:ARG:C	2.53	0.47
6:AG:4:TYR:HE2	6:AG:8:VAL:HG22	1.80	0.47
6:AG:78:LEU:HB3	6:AG:93:PHE:CE2	2.50	0.47
9:AJ:15:ASP:HB2	9:AJ:23:VAL:CB	2.45	0.47
10:AK:114:THR:HB	10:AK:129:VAL:HG13	1.96	0.47
10:AK:10:LEU:C	10:AK:13:ILE:HB	2.29	0.47
10:AK:40:ALA:HB2	10:AK:45:ILE:HD13	1.97	0.47
10:AK:78:GLN:O	10:AK:79:VAL:C	2.52	0.47
11:AL:108:VAL:O	11:AL:108:VAL:HG23	2.15	0.47
11:AL:41:VAL:O	11:AL:44:VAL:HG22	2.13	0.47
12:AM:24:VAL:HG13	12:AM:34:VAL:CG1	2.44	0.47
1:AA:1254:C:OP1	12:AM:45:ARG:HD2	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AN:44:SER:H	13:AN:47:VAL:CB	2.25	0.47
15:AP:36:LYS:HB3	15:AP:59:TYR:OH	2.14	0.47
17:AR:63:ARG:NH2	17:AR:87:ILE:HD13	2.26	0.47
18:AS:19:ILE:HB	18:AS:36:ILE:O	2.15	0.47
18:AS:53:VAL:HA	18:AS:79:VAL:HG22	1.95	0.47
19:AT:29:HIS:ND1	19:AT:30:PRO:N	2.62	0.47
19:AT:60:ILE:HD13	19:AT:62:SER:CB	2.45	0.47
19:AT:5:VAL:O	19:AT:6:LEU:HB3	2.15	0.47
19:AT:6:LEU:HD12	19:AT:6:LEU:O	2.15	0.47
20:AU:18:ARG:HH22	20:AU:21:LYS:HD3	1.79	0.47
8:AI:89:MET:CB	20:AU:76:LEU:HD11	2.40	0.47
21:AV:35:SER:C	21:AV:37:ARG:H	2.18	0.47
21:AV:30:LEU:N	21:AV:48:THR:O	2.48	0.47
22:AW:62:LEU:O	22:AW:63:ILE:C	2.53	0.47
51:B4:23:HIS:O	51:B4:24:ALA:HB3	2.14	0.47
38:BQ:99:LYS:HD3	51:B4:43:HIS:CG	2.50	0.47
24:BA:2612:C:HO2'	51:B4:4:HIS:HB3	1.79	0.47
53:B6:25:PRO:CA	53:B6:28:ARG:NE	2.76	0.47
24:BA:1140:C:H2'	24:BA:1141:U:OP2	2.15	0.47
24:BA:1212:G:C8	24:BA:1235:G:N1	2.83	0.47
24:BA:122:G:C2	24:BA:130:C:C2	3.03	0.47
24:BA:1265:A:H1'	24:BA:1267:U:N3	2.28	0.47
24:BA:1289:C:N3	24:BA:1290:C:C5	2.83	0.47
24:BA:128:C:N4	24:BA:129:C:H41	2.12	0.47
24:BA:1433:U:C6	24:BA:1433:U:H3'	2.49	0.47
24:BA:1593:G:C4	24:BA:1594:G:C8	3.02	0.47
24:BA:1626:G:H5'	24:BA:1627:G:OP1	2.15	0.47
24:BA:1649:G:N2	38:BQ:107:ASP:CB	2.63	0.47
24:BA:1799:G:O2'	24:BA:1800:C:O4'	2.31	0.47
24:BA:1813:G:H4'	27:BD:46:GLN:CG	2.42	0.47
24:BA:1903:G:C2	24:BA:1904:G:C5	3.03	0.47
24:BA:1941:C:C6	24:BA:1965:C:C4	3.02	0.47
24:BA:197:A:H62	24:BA:248:G:N2	2.00	0.47
24:BA:2065:C:O2'	24:BA:2449:U:O2	2.33	0.47
24:BA:2213:U:H5''	24:BA:2213:U:C2	2.50	0.47
24:BA:2298:A:H3'	24:BA:2299:G:C8	2.49	0.47
24:BA:2400:G:C6	24:BA:2401:U:C2	3.03	0.47
24:BA:2553:G:C5'	24:BA:2554:U:OP2	2.63	0.47
24:BA:2617:C:OP2	24:BA:2617:C:C6	2.67	0.47
24:BA:270(K):C:N4	24:BA:270(M):U:C6	2.83	0.47
24:BA:2720:U:O4	24:BA:2872:G:C5	2.67	0.47
24:BA:273:G:C5	24:BA:273(A):G:N7	2.83	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2877:G:C3'	24:BA:2878:U:C6	2.94	0.47
24:BA:304:G:O2'	24:BA:305:U:H5'	2.15	0.47
24:BA:359:A:O3'	24:BA:360:G:C8	2.68	0.47
24:BA:428:A:C2'	24:BA:428:A:N3	2.78	0.47
24:BA:499:U:C6	24:BA:503:A:N6	2.83	0.47
24:BA:530:G:N2	24:BA:2021:C:C2'	2.78	0.47
24:BA:537:C:H2'	24:BA:539:G:H8	1.79	0.47
24:BA:566:U:H6	24:BA:567:A:C8	2.32	0.47
24:BA:703:U:C3'	24:BA:704:G:O4'	2.63	0.47
24:BA:718:A:H3'	24:BA:719:C:O4'	2.14	0.47
24:BA:848:G:C3'	24:BA:848:G:C8	2.98	0.47
24:BA:848:G:H5''	24:BA:848:G:C8	2.50	0.47
24:BA:90:U:H5'	24:BA:91:A:OP1	2.15	0.47
24:BA:932:G:C2'	24:BA:933:A:C8	2.87	0.47
25:BB:20:C:H2'	25:BB:21:G:O4'	2.15	0.47
25:BB:73:A:N3	25:BB:74:U:C6	2.83	0.47
25:BB:85:G:C4	25:BB:92:G:C2	3.02	0.47
24:BA:1566:A:H2	27:BD:215:LEU:HD13	1.68	0.47
27:BD:34:VAL:O	27:BD:36:PRO:CD	2.62	0.47
27:BD:55:GLY:H	27:BD:218:ARG:HD2	1.79	0.47
27:BD:75:ILE:HD13	27:BD:99:ASP:OD1	2.15	0.47
24:BA:2619:C:H5'	28:BE:151:TYR:O	2.13	0.47
28:BE:91:VAL:HG23	28:BE:180:ASN:CG	2.34	0.47
28:BE:172:VAL:CA	28:BE:184:VAL:HG12	2.43	0.47
28:BE:53:PRO:O	28:BE:53:PRO:HG2	2.15	0.47
28:BE:61:ARG:O	28:BE:62:PRO:C	2.51	0.47
28:BE:80:GLU:N	28:BE:80:GLU:CD	2.68	0.47
31:BH:120:GLY:C	31:BH:135:GLY:HA2	2.35	0.47
31:BH:71:LEU:O	31:BH:74:ASN:CB	2.61	0.47
33:BL:27:LEU:CB	33:BL:32:ALA:HB3	2.43	0.47
34:BM:112:LEU:O	34:BM:115:ARG:N	2.48	0.47
34:BM:107:LEU:CB	34:BM:117:PHE:CZ	2.98	0.47
34:BM:74:ARG:CG	34:BM:76:SER:OG	2.63	0.47
36:BO:97:PRO:HD3	36:BO:102:ARG:NH1	2.28	0.47
36:BO:122:PRO:CG	36:BO:137:LYS:C	2.77	0.47
36:BO:16:ARG:HG3	36:BO:19:VAL:HG22	1.92	0.47
37:BP:25:ASP:C	37:BP:102:VAL:HB	2.34	0.47
24:BA:2723:C:HO2'	38:BQ:2:ARG:CA	2.28	0.47
38:BQ:96:ARG:C	38:BQ:114:VAL:HG13	2.35	0.47
39:BR:79:ALA:O	39:BR:81:GLY:N	2.47	0.47
40:BS:61:PHE:CD1	40:BS:81:PRO:HD3	2.41	0.47
41:BT:105:VAL:O	41:BT:108:GLU:OE2	2.32	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BT:106:PHE:O	41:BT:107:ALA:C	2.51	0.47
41:BT:114:LYS:HB3	41:BT:114:LYS:HE2	1.36	0.47
41:BT:12:ARG:O	41:BT:13:LYS:C	2.53	0.47
24:BA:531:C:O2	41:BT:28:ARG:NE	2.47	0.47
41:BT:39:LEU:C	41:BT:41:ALA:N	2.68	0.47
43:BV:1:MET:N	43:BV:4:LYS:HD3	2.29	0.47
46:BY:152:ALA:C	46:BY:155:LEU:HD22	2.34	0.47
46:BY:20:ARG:HB2	46:BY:20:ARG:NH1	2.28	0.47
46:BY:69:THR:HG1	46:BY:70:LEU:H	1.63	0.47
47:BZ:51:VAL:CG1	47:BZ:59:LEU:HD22	2.45	0.47
3:AD:19:G:P	3:AD:20:U:O4	2.72	0.47
24:BA:2112:G:N3	24:BA:2112:G:C2'	2.77	0.47
26:BC:49:ILE:CD1	26:BC:51:PRO:HD3	2.45	0.47
26:BC:75:LEU:HG	26:BC:77:ILE:HG12	1.96	0.47
24:BA:2161:C:C2	24:BA:2162:G:C8	3.02	0.47
26:BC:108:MET:CE	26:BC:131:LEU:HA	2.44	0.47
26:BC:22:ILE:CG2	26:BC:189:ILE:HG21	2.43	0.47
26:BC:190:ARG:HG3	26:BC:190:ARG:NH1	2.30	0.47
26:BC:46:LYS:CD	26:BC:210:ARG:HB2	2.43	0.47
3:AD:43:C:H2'	3:AD:44:G:H8	1.78	0.47
3:AD:44:G:C6	3:AD:45:U:O2	2.68	0.47
18:AS:67:THR:HG22	18:AS:68:ASP:N	2.30	0.47
1:AA:443:C:C6	1:AA:492:G:N2	2.83	0.47
1:AA:1015:A:N7	1:AA:1016:A:N6	2.63	0.47
24:BA:1284:A:C6	24:BA:1285:G:N1	2.82	0.47
1:AA:1029:G:C4	1:AA:1032(A):G:N1	2.82	0.47
24:BA:55:G:N3	24:BA:56:A:C8	2.83	0.47
24:BA:2183:C:C2	24:BA:2184:G:C8	3.02	0.47
1:AA:1049:U:O2'	1:AA:1050:G:OP2	2.32	0.47
1:AA:1119:C:H2'	1:AA:1120:G:N7	2.27	0.47
1:AA:1128:C:O4'	1:AA:1148:U:O4	2.33	0.47
1:AA:1180:A:H8	1:AA:1180:A:O5'	1.98	0.47
1:AA:1228:C:OP1	15:AP:115:LYS:CB	2.63	0.47
1:AA:1317:C:OP1	1:AA:1317:C:C5	2.68	0.47
1:AA:1371:G:H5''	11:AL:68:GLY:O	2.15	0.47
1:AA:1426:C:O2'	1:AA:1427:U:H5'	2.15	0.47
1:AA:1461:G:O2'	1:AA:1462:G:C5'	2.62	0.47
1:AA:1428:A:N6	1:AA:1473:A:N6	2.62	0.47
1:AA:1483:A:H2'	1:AA:1484:C:O4'	2.13	0.47
1:AA:927:G:O5'	1:AA:1503:A:N7	2.47	0.47
1:AA:152:A:N7	1:AA:153:C:C5	2.83	0.47
1:AA:307:C:C4	1:AA:308:C:C5	2.82	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:332:G:H2'	1:AA:333:G:C8	2.39	0.47
1:AA:397:A:HO2'	1:AA:398:C:H3'	1.78	0.47
1:AA:519:C:O2'	1:AA:520:A:H5'	2.14	0.47
1:AA:581:G:C6	1:AA:758:G:N7	2.83	0.47
1:AA:592:G:O2'	1:AA:593:G:H5'	2.15	0.47
1:AA:606:G:H22	1:AA:631:G:H2'	1.79	0.47
1:AA:695:A:C4	1:AA:696:A:C8	3.02	0.47
1:AA:737:A:H2'	1:AA:738:C:H6	1.79	0.47
1:AA:767:A:C6	1:AA:768:A:C5	3.03	0.47
1:AA:84:U:H2'	1:AA:85:U:C1'	2.44	0.47
1:AA:964:A:C2	1:AA:965:A:N7	2.83	0.47
3:AB:37:A:H2'	3:AB:38:A:H5'	1.96	0.47
3:AB:76:A:O2'	24:BA:2583:G:N2	2.47	0.47
3:AC:15:G:H22	3:AC:48:C:N4	2.04	0.47
3:AC:76:A:H2	24:BA:2506:U:N3	2.12	0.47
4:AE:110:GLN:O	4:AE:113:HIS:HB3	2.15	0.47
4:AE:186:ALA:O	4:AE:201:ILE:CB	2.57	0.47
4:AE:234:PRO:HB2	4:AE:238:LEU:CD2	2.45	0.47
4:AE:33:TYR:CB	4:AE:43:ASP:HB2	2.45	0.47
2:A1:18:U:C4	4:AE:76:GLN:NE2	2.82	0.47
5:AF:5:ILE:HD13	5:AF:10:PHE:CE2	2.49	0.47
6:AG:61:LYS:CG	6:AG:207:TYR:CE1	2.92	0.47
6:AG:79:PHE:CD2	6:AG:80:GLU:N	2.83	0.47
8:AI:71:ARG:O	8:AI:72:VAL:C	2.53	0.47
10:AK:14:ARG:CZ	10:AK:15:ASN:ND2	2.78	0.47
10:AK:34:GLU:C	10:AK:37:ARG:HB3	2.32	0.47
11:AL:46:ALA:HB1	11:AL:77:ILE:CG2	2.45	0.47
12:AM:9:ARG:CB	12:AM:9:ARG:NH1	2.78	0.47
13:AN:22:HIS:CD2	13:AN:23:ALA:N	2.83	0.47
13:AN:84:VAL:HG21	20:AU:88:LYS:HZ2	1.78	0.47
13:AN:99:GLN:HA	13:AN:105:VAL:CG2	2.44	0.47
14:AO:102:ARG:CZ	14:AO:110:VAL:N	2.78	0.47
14:AO:24:VAL:HG13	14:AO:98:TYR:OH	2.15	0.47
14:AO:86:ARG:HH22	14:AO:119:LYS:HD3	1.80	0.47
15:AP:33:ALA:HB2	15:AP:64:TRP:CZ3	2.49	0.47
16:AQ:23:ARG:CD	16:AQ:30:ALA:HB2	2.44	0.47
18:AS:4:ILE:HG12	18:AS:66:PRO:CA	2.44	0.47
19:AT:43:LEU:HD11	19:AT:69:LYS:CB	2.45	0.47
20:AU:51:LEU:H	20:AU:51:LEU:CD1	2.28	0.47
20:AU:56:THR:O	20:AU:57:GLY:C	2.53	0.47
20:AU:31:LEU:HD23	20:AU:65:ILE:HG13	1.95	0.47
22:AW:11:SER:O	22:AW:12:ALA:HB2	2.13	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AW:49:ALA:O	22:AW:53:LEU:HG	2.14	0.47
48:B1:46:ARG:HE	48:B1:50:ARG:HH22	1.63	0.47
51:B4:58:LEU:CD2	51:B4:59:GLU:N	2.67	0.47
52:B5:22:ALA:O	52:B5:23:THR:CB	2.61	0.47
53:B6:43:THR:CA	53:B6:46:VAL:HB	2.44	0.47
53:B6:46:VAL:O	53:B6:47:ARG:O	2.32	0.47
54:B7:58:ILE:HD12	54:B7:59:LYS:H	1.79	0.47
54:B7:4:MET:HE1	54:B7:62:LEU:HG	1.94	0.47
24:BA:253:C:H41	54:B7:7:HIS:HD1	1.63	0.47
24:BA:1001:A:N6	24:BA:1002:G:C2	2.82	0.47
24:BA:1031:G:C2	24:BA:1032:A:C5	3.03	0.47
24:BA:1111:A:O2'	24:BA:1112:G:C1'	2.48	0.47
24:BA:1168:G:C6	24:BA:1169:G:C5	3.03	0.47
24:BA:1203:G:N2	24:BA:1206:G:N1	2.63	0.47
24:BA:814:C:C3'	24:BA:1224:G:H22	2.28	0.47
24:BA:1229:G:C2'	24:BA:1230:C:H5'	2.44	0.47
24:BA:1265:A:C1'	24:BA:1267:U:C4	2.91	0.47
24:BA:1338:G:N2	24:BA:1339:G:H1'	2.30	0.47
24:BA:1385:G:C6	24:BA:1386:C:C4	3.03	0.47
24:BA:1453:A:N7	38:BQ:73:VAL:CG1	2.77	0.47
24:BA:1530:G:H2'	24:BA:1531:C:C5	2.48	0.47
24:BA:1596:A:C6	24:BA:1597:A:C6	3.03	0.47
24:BA:1672:C:H3'	24:BA:1673:U:C5'	2.36	0.47
24:BA:1688:U:N3	24:BA:1700:A:C5'	2.77	0.47
24:BA:1709:U:C6	24:BA:1709:U:H5'	2.46	0.47
24:BA:1826:G:N2	24:BA:1827:C:H1'	2.29	0.47
24:BA:1829:A:C6	24:BA:1830:C:H1'	2.49	0.47
24:BA:1847:A:N1	24:BA:1851:U:O4	2.47	0.47
24:BA:1927:A:C6	24:BA:1928:A:N1	2.83	0.47
24:BA:1964:G:H4'	24:BA:1965:C:OP2	2.15	0.47
24:BA:2062:A:C2'	24:BA:2063:C:OP1	2.63	0.47
24:BA:2244:U:O2'	24:BA:2245:U:O5'	2.33	0.47
24:BA:2298:A:C2'	24:BA:2299:G:H8	2.27	0.47
24:BA:2320:A:C5'	24:BA:2321:G:C5	2.91	0.47
24:BA:2325:G:N7	24:BA:2326:C:C5	2.83	0.47
24:BA:233:A:C5	24:BA:234:C:C5	3.03	0.47
24:BA:2354:G:H1'	47:BZ:34:GLY:O	2.14	0.47
24:BA:2394:C:H5'	54:B7:12:LYS:NZ	2.29	0.47
24:BA:2459:A:C2	24:BA:2492:U:O4	2.54	0.47
24:BA:2505:G:C8	24:BA:2505:G:H3'	2.50	0.47
24:BA:2535:G:H5'	24:BA:2536:G:OP2	2.15	0.47
24:BA:2553:G:C2	24:BA:2554:U:H1'	2.39	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2579:C:O2'	24:BA:2580:U:H5'	2.14	0.47
24:BA:270(X):G:H5''	24:BA:273:G:OP1	2.14	0.47
24:BA:2688:U:O4	24:BA:2719:G:H3'	2.15	0.47
24:BA:2740:A:C6	24:BA:2741:A:C6	3.03	0.47
24:BA:2815:C:O2'	24:BA:2816:C:C5'	2.52	0.47
24:BA:2812:G:N2	24:BA:2889:C:C2	2.83	0.47
24:BA:323:G:C6	24:BA:333:G:C8	3.03	0.47
24:BA:477:A:O2'	24:BA:478:A:H5'	2.15	0.47
24:BA:594:U:OP1	54:B7:61:LEU:HB3	2.14	0.47
24:BA:666:G:P	24:BA:666:G:H3'	2.55	0.47
24:BA:690:G:C6	24:BA:691:C:C4	3.02	0.47
24:BA:729:G:H2'	24:BA:730:C:C2'	2.44	0.47
24:BA:783:A:O2'	24:BA:784:A:H5'	2.15	0.47
24:BA:782:A:C5'	24:BA:783:A:OP1	2.62	0.47
24:BA:887:A:H4'	24:BA:889:C:H5''	1.97	0.47
24:BA:919:G:H2'	24:BA:920:G:O5'	2.14	0.47
24:BA:958:U:O2'	24:BA:959:A:O5'	2.33	0.47
25:BB:110:G:C6	25:BB:111:U:C2	3.03	0.47
25:BB:7:G:C6	25:BB:8:U:N3	2.83	0.47
27:BD:72:LYS:O	27:BD:73:VAL:C	2.53	0.47
28:BE:14:ILE:HD12	28:BE:14:ILE:N	2.15	0.47
28:BE:4:ILE:CG1	28:BE:27:LEU:HD13	2.41	0.47
28:BE:82:ARG:NE	28:BE:82:ARG:HA	2.30	0.47
28:BE:91:VAL:O	28:BE:92:THR:CB	2.61	0.47
28:BE:97:LYS:HG3	28:BE:100:GLU:CG	2.45	0.47
29:BF:38:ARG:O	29:BF:42:ALA:HB2	2.14	0.47
29:BF:65:TRP:HA	29:BF:65:TRP:CE3	2.49	0.47
24:BA:2312:U:O4'	30:BG:43:LEU:HD22	2.15	0.47
31:BH:13:LYS:CG	31:BH:15:VAL:HB	2.45	0.47
31:BH:32:GLU:O	31:BH:33:LEU:C	2.52	0.47
31:BH:7:LEU:CD1	31:BH:65:HIS:NE2	2.73	0.47
34:BM:30:ILE:C	34:BM:33:LEU:HB3	2.33	0.47
35:BN:10:VAL:C	35:BN:17:ARG:CG	2.80	0.47
36:BO:78:PRO:HG3	36:BO:116:GLY:HA2	1.96	0.47
36:BO:117:GLU:CG	36:BO:118:GLY:H	2.22	0.47
37:BP:106:VAL:CG2	37:BP:107:ALA:N	2.53	0.47
37:BP:109:VAL:HG12	37:BP:110:THR:N	2.29	0.47
37:BP:15:GLY:HA2	37:BP:73:PRO:HG2	1.96	0.47
37:BP:66:ILE:HG22	37:BP:67:ARG:O	2.14	0.47
38:BQ:18:LEU:HB3	38:BQ:22:ARG:NH2	2.22	0.47
24:BA:2000:G:OP2	38:BQ:2:ARG:CD	2.63	0.47
38:BQ:67:LEU:HD21	38:BQ:71:GLN:HA	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BQ:90:ARG:HH22	38:BQ:117:VAL:HG13	1.78	0.47
39:BR:106:ARG:HD2	39:BR:107:GLU:OE2	2.15	0.47
35:BN:122:LEU:CA	40:BS:74:ARG:NH1	2.68	0.47
34:BM:4:TYR:HE2	41:BT:100:VAL:HB	1.80	0.47
41:BT:61:TRP:HB3	41:BT:65:ILE:HD11	1.97	0.47
41:BT:93:LYS:O	42:BU:6:LYS:NZ	2.32	0.47
41:BT:98:LEU:HD13	41:BT:101:ARG:HD2	1.97	0.47
42:BU:20:LEU:CD1	42:BU:68:LYS:NZ	2.73	0.47
42:BU:78:LYS:HE2	42:BU:84:LYS:CG	2.45	0.47
43:BV:13:SER:OG	43:BV:16:LYS:HE3	2.14	0.47
43:BV:8:ARG:NH2	43:BV:102:HIS:CE1	2.83	0.47
45:BX:54:LYS:C	45:BX:56:PRO:HD3	2.35	0.47
45:BX:75:ILE:CD1	45:BX:75:ILE:O	2.62	0.47
45:BX:74:PRO:CD	45:BX:76:CYS:O	2.63	0.47
46:BY:152:ALA:HB3	46:BY:168:GLU:H	1.80	0.47
46:BY:39:VAL:CG2	46:BY:44:PHE:CE2	2.87	0.47
25:BB:102:G:C2'	46:BY:73:GLN:NE2	2.63	0.47
47:BZ:28:GLY:C	47:BZ:67:VAL:HB	2.35	0.47
47:BZ:49:LYS:HB2	47:BZ:80:HIS:ND1	2.30	0.47
32:BK:79:ILE:HA	32:BK:80:PRO:HD3	1.67	0.47
3:AD:48:C:C5	3:AD:59:U:C2	3.03	0.47
24:BA:2110:G:C2'	24:BA:2120:G:H5'	2.45	0.47
24:BA:2133:G:O6	24:BA:2157:G:C8	2.68	0.47
26:BC:137:LEU:HD23	26:BC:138:PRO:HD2	1.95	0.47
26:BC:175:VAL:HG21	26:BC:189:ILE:HG12	1.95	0.47
24:BA:1114:G:H21	24:BA:1115:G:H1'	1.69	0.47
33:BL:14:ALA:CB	33:BL:53:VAL:CG2	2.92	0.47
43:BV:85:VAL:HG23	43:BV:85:VAL:O	2.14	0.47
2:A1:46:U:C6	2:A1:46:U:C3'	2.98	0.47
1:AA:1003:G:H2'	1:AA:1004:A:H4'	1.96	0.47
1:AA:1085:U:H5''	1:AA:1086:U:H5	1.78	0.47
1:AA:1270:C:HO2'	1:AA:1313:U:HO2'	1.59	0.47
1:AA:1274:G:H2'	1:AA:1275:A:H8	1.78	0.47
1:AA:1340:A:H2'	1:AA:1341:U:H6	1.80	0.47
1:AA:1390:U:C4	1:AA:1391:U:O4	2.68	0.47
1:AA:1475:G:C2'	1:AA:1476:G:O5'	2.63	0.47
1:AA:1476:G:H2'	1:AA:1477:C:C5	2.50	0.47
1:AA:251:G:N3	1:AA:266:G:C6	2.83	0.47
1:AA:25:C:H4'	1:AA:524:G:N2	2.30	0.47
1:AA:285:G:C5	1:AA:286:G:N7	2.83	0.47
1:AA:29:G:C5'	1:AA:296:U:OP1	2.59	0.47
1:AA:536:C:C6	1:AA:536:C:O5'	2.68	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:59:A:H61	1:AA:331:G:H1'	1.80	0.47
1:AA:67:C:O2'	1:AA:171:A:H1'	2.15	0.47
1:AA:686:U:HO2'	1:AA:687:A:P	2.37	0.47
1:AA:697:U:C6	1:AA:697:U:O5'	2.62	0.47
1:AA:841:U:OP2	1:AA:842:C:N4	2.48	0.47
1:AA:872:A:C6	1:AA:874:G:C5	3.03	0.47
1:AA:936:C:C2'	1:AA:937:A:C5'	2.92	0.47
1:AA:981:U:C6	1:AA:982:U:C5	3.03	0.47
3:AC:31:A:C2	3:AC:40:C:C4	3.03	0.47
3:AD:5:G:C2	3:AD:6:G:C5	3.02	0.47
4:AE:104:ASN:O	4:AE:107:THR:HB	2.15	0.47
4:AE:135:GLN:C	4:AE:139:LYS:NZ	2.59	0.47
4:AE:179:LYS:C	4:AE:181:PHE:H	2.18	0.47
4:AE:219:VAL:HA	4:AE:222:ILE:CG1	2.45	0.47
4:AE:73:THR:HA	4:AE:94:ASN:HA	1.96	0.47
5:AF:12:LEU:HD21	16:AQ:57:ARG:HG2	1.91	0.47
5:AF:186:PHE:CA	5:AF:198:VAL:O	2.59	0.47
5:AF:152:ILE:O	5:AF:199:LYS:O	2.33	0.47
5:AF:22:TRP:CZ2	16:AQ:54:PRO:HG2	2.50	0.47
5:AF:57:ILE:HG23	5:AF:66:VAL:HG22	1.96	0.47
6:AG:170:VAL:CG1	6:AG:174:LEU:HD12	2.45	0.47
6:AG:26:CYS:SG	6:AG:26:CYS:O	2.73	0.47
6:AG:64:LEU:CD1	6:AG:65:ARG:N	2.76	0.47
7:AH:47:LYS:O	7:AH:57:LYS:HE2	2.15	0.47
7:AH:77:PRO:HG2	7:AH:78:HIS:H	1.79	0.47
9:AJ:45:ASP:HB2	9:AJ:117:ALA:CB	2.44	0.47
11:AL:4:TYR:CG	11:AL:88:TYR:HB2	2.50	0.47
12:AM:54:PHE:H	16:AQ:41:ARG:HH21	1.63	0.47
13:AN:21:ILE:HD11	13:AN:82:VAL:CG1	2.45	0.47
15:AP:66:LEU:HA	15:AP:70:LEU:HB2	1.97	0.47
15:AP:79:LYS:O	15:AP:82:MET:HB2	2.14	0.47
17:AR:29:VAL:O	17:AR:33:THR:OG1	2.25	0.47
1:AA:376:G:H4'	18:AS:28:ARG:CB	2.45	0.47
19:AT:4:LYS:CG	19:AT:5:VAL:N	2.77	0.47
19:AT:75:ARG:HG2	19:AT:75:ARG:NH1	2.30	0.47
19:AT:80:GLY:O	19:AT:81:ARG:C	2.54	0.47
20:AU:36:ASN:O	20:AU:37:VAL:C	2.52	0.47
22:AW:38:LYS:O	22:AW:41:ILE:N	2.48	0.47
22:AW:57:ARG:HH11	22:AW:57:ARG:HG2	1.80	0.47
49:B2:8:LEU:CB	49:B2:33:GLN:HB3	2.44	0.47
49:B2:6:VAL:CG2	49:B2:35:ARG:NH2	2.77	0.47
50:B3:58:ARG:H	50:B3:61:ARG:HH12	1.63	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:B3:70:GLY:O	50:B3:71:ARG:CB	2.63	0.47
52:B5:17:LYS:HG2	52:B5:19:ARG:HE	1.79	0.47
52:B5:14:THR:CB	52:B5:51:GLU:HA	2.30	0.47
52:B5:7:ILE:HG23	52:B5:8:LYS:H	1.79	0.47
24:BA:459:U:OP2	53:B6:40:TRP:CG	2.68	0.47
54:B7:3:LYS:HE2	54:B7:59:LYS:HE2	1.97	0.47
24:BA:242:G:H5''	54:B7:4:MET:SD	2.55	0.47
24:BA:2528:U:OP1	55:B8:30:PRO:HG2	2.15	0.47
24:BA:1029:A:O5'	24:BA:1029:A:C8	2.60	0.47
24:BA:1027:A:N6	24:BA:1126:A:H1'	2.27	0.47
24:BA:1234:U:H2'	24:BA:1235:G:O4'	2.14	0.47
24:BA:1351:C:C4	24:BA:1381:G:C6	3.02	0.47
24:BA:1339:G:O4'	24:BA:1393:A:C2	2.68	0.47
24:BA:1424:G:O4'	24:BA:1424:G:OP2	2.32	0.47
24:BA:1425:G:C6	24:BA:1426:G:O6	2.68	0.47
24:BA:142:G:H2'	24:BA:143:C:C5	2.49	0.47
24:BA:1432:C:N3	24:BA:1433:U:O2	2.48	0.47
24:BA:1519:G:H3'	24:BA:1520:U:C1'	2.45	0.47
24:BA:1613:G:C8	24:BA:1617:C:N4	2.82	0.47
24:BA:1699:G:C2'	24:BA:1700:A:OP1	2.62	0.47
24:BA:1891:G:C5	24:BA:1892:C:C5	3.03	0.47
24:BA:1916:A:O2'	24:BA:1917:U:C2	2.66	0.47
24:BA:1923:U:H2'	24:BA:1924:C:C6	2.50	0.47
24:BA:1949:G:N7	24:BA:1950:G:N7	2.63	0.47
24:BA:194:G:H2'	24:BA:195:A:H8	1.76	0.47
24:BA:1964:G:C2	24:BA:1967:C:H5	2.27	0.47
24:BA:1973:G:C4	24:BA:1974:C:C5	3.03	0.47
24:BA:2097:C:H2'	24:BA:2098:U:C4'	2.44	0.47
24:BA:2325:G:N7	24:BA:2326:C:H5	2.13	0.47
24:BA:2364:C:N4	24:BA:2365:G:C6	2.83	0.47
24:BA:2383:G:C2	24:BA:2384:G:C4	3.03	0.47
24:BA:2404:C:C4	24:BA:2414:G:C2	3.03	0.47
24:BA:2431:U:C2	24:BA:2433:A:OP2	2.68	0.47
24:BA:2450:A:OP1	24:BA:2497:A:C8	2.67	0.47
24:BA:2530:A:H2'	24:BA:2531:A:H5''	1.96	0.47
24:BA:2601:C:O2	24:BA:2603:G:C8	2.68	0.47
24:BA:2616:C:C2'	24:BA:2617:C:C6	2.97	0.47
24:BA:2676:C:N3	24:BA:2677:G:N7	2.63	0.47
24:BA:2758:A:P	24:BA:2759:G:OP2	2.73	0.47
24:BA:2812:G:C4	24:BA:2813:A:N7	2.83	0.47
24:BA:2850:A:OP2	24:BA:2866:U:C5	2.68	0.47
24:BA:291:C:C5	24:BA:292:C:C5	3.03	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:301:G:C8	24:BA:334:C:C2	3.03	0.47
24:BA:342:G:H2'	24:BA:343:C:O4'	2.15	0.47
24:BA:349:G:H2'	24:BA:350:U:C5	2.49	0.47
24:BA:349:G:C6	24:BA:350:U:O4	2.68	0.47
24:BA:416:C:C4	24:BA:417:C:C4	3.03	0.47
24:BA:451:C:C4	24:BA:453:C:H3'	2.49	0.47
24:BA:467:G:O2'	24:BA:468:G:H5'	2.14	0.47
24:BA:473:G:N2	24:BA:474:G:C4	2.83	0.47
24:BA:496:G:C6	24:BA:497:A:C5	3.03	0.47
24:BA:570:G:N1	24:BA:2498:C:C4'	2.59	0.47
24:BA:585:G:O2'	24:BA:586:A:C8	2.57	0.47
24:BA:587:C:C6	24:BA:671:C:H1'	2.50	0.47
24:BA:587:C:HO2'	24:BA:588:U:P	2.38	0.47
24:BA:689:A:C4	24:BA:690:G:C8	3.02	0.47
24:BA:746:A:N7	24:BA:2612:C:O5'	2.48	0.47
24:BA:763:G:H2'	24:BA:764:A:C5'	2.44	0.47
24:BA:827:U:C4	24:BA:2430:A:C6	3.03	0.47
24:BA:836:G:C5	24:BA:837:C:C4	3.03	0.47
24:BA:857:C:O2'	47:BZ:23:VAL:HG11	2.15	0.47
24:BA:865:C:C2'	24:BA:865:C:O2	2.63	0.47
24:BA:988:A:C2	24:BA:989:G:C2	3.02	0.47
25:BB:87:G:N2	25:BB:89:G:C8	2.82	0.47
27:BD:148:GLU:OE1	27:BD:154:LYS:NZ	2.48	0.47
27:BD:42:GLY:HA2	27:BD:60:ARG:NH2	2.26	0.47
28:BE:21:VAL:O	28:BE:185:LYS:HB2	2.15	0.47
28:BE:104:VAL:HG22	28:BE:198:VAL:CB	2.44	0.47
28:BE:8:LYS:HG3	28:BE:24:THR:HG21	1.97	0.47
29:BF:116:ASP:HA	29:BF:119:ARG:HD2	1.96	0.47
29:BF:124:LEU:CD2	29:BF:197:ASP:OD2	2.63	0.47
29:BF:135:LYS:HB3	29:BF:138:GLU:OE2	2.15	0.47
29:BF:154:VAL:HG23	29:BF:156:LEU:CD2	2.45	0.47
29:BF:6:VAL:HB	29:BF:18:ARG:CD	2.40	0.47
30:BG:107:LEU:HD21	30:BG:173:LEU:HD21	1.95	0.47
30:BG:9:ARG:CG	30:BG:13:GLU:OE2	2.62	0.47
31:BH:161:GLY:C	31:BH:163:TYR:HE1	2.18	0.47
31:BH:163:TYR:N	31:BH:163:TYR:CD1	2.83	0.47
24:BA:2751:G:C1'	31:BH:6:ARG:HH22	2.28	0.47
31:BH:94:TYR:CD2	31:BH:95:ARG:N	2.82	0.47
33:BL:81:ALA:CB	33:BL:107:ILE:HD13	2.45	0.47
34:BM:107:LEU:HD13	34:BM:117:PHE:CD1	2.50	0.47
34:BM:134:ARG:N	34:BM:135:PRO:CD	2.78	0.47
34:BM:42:TRP:HE1	41:BT:64:ARG:CG	2.27	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BN:70:LYS:HD3	35:BN:107:ARG:HH12	1.76	0.47
35:BN:70:LYS:CB	35:BN:72:PRO:HD2	2.43	0.47
35:BN:8:LEU:HD13	35:BN:82:ASN:HA	1.95	0.47
36:BO:113:LYS:HD3	36:BO:113:LYS:C	2.35	0.47
37:BP:68:ILE:CD1	37:BP:97:VAL:HG13	2.45	0.47
39:BR:75:GLU:O	39:BR:78:LEU:HD12	2.15	0.47
39:BR:92:TYR:CE1	39:BR:93:LYS:HB3	2.49	0.47
40:BS:17:THR:HG21	40:BS:22:PHE:CZ	2.50	0.47
41:BT:32:PHE:O	41:BT:36:ARG:HG2	2.14	0.47
41:BT:33:ARG:C	41:BT:35:ALA:N	2.66	0.47
41:BT:96:ALA:O	41:BT:99:ALA:N	2.48	0.47
42:BU:67:GLY:CA	42:BU:94:LEU:HA	2.45	0.47
42:BU:8:GLY:HA3	42:BU:24:LYS:NZ	2.30	0.47
43:BV:58:ALA:CB	43:BV:69:LEU:HD21	2.45	0.47
44:BW:5:TYR:HB3	48:B1:24:LYS:CD	2.40	0.47
45:BX:84:ARG:HB2	45:BX:92:ASN:O	2.15	0.47
46:BY:100:VAL:HG23	46:BY:102:LEU:HD23	1.96	0.47
46:BY:15:PRO:O	46:BY:19:ARG:HD2	2.14	0.47
47:BZ:29:GLN:OE1	47:BZ:67:VAL:HG21	2.15	0.47
24:BA:2127:G:N2	24:BA:2128:C:C2	2.83	0.47
26:BC:56:GLN:NE2	26:BC:203:GLY:O	2.47	0.47
26:BC:54:SER:CB	26:BC:57:ASN:HD22	2.28	0.47
3:AD:54:U:H4'	26:BC:54:SER:OG	2.14	0.47
24:BA:1484:G:C6	24:BA:1485:G:C5	3.03	0.47
24:BA:1589:C:O2'	24:BA:1590:U:H5'	2.15	0.47
1:AA:1173:G:C2'	1:AA:1174:G:H5''	2.45	0.47
39:BR:59:LYS:CD	39:BR:59:LYS:H	2.28	0.47
33:BL:61:ALA:O	33:BL:62:ASP:CB	2.63	0.47
6:AG:151:LYS:N	6:AG:151:LYS:CD	2.78	0.47
1:AA:1121:U:C6	1:AA:1121:U:O5'	2.68	0.47
12:AM:17:ASP:O	12:AM:21:GLN:HB3	2.14	0.47
2:A1:31:U:H2'	2:A1:32:U:C6	2.50	0.47
1:AA:1124:G:N2	1:AA:1127:G:C4	2.83	0.47
1:AA:1124:G:H2'	1:AA:1126:U:O4	2.15	0.47
1:AA:112:G:C2	1:AA:113:G:C8	3.03	0.47
1:AA:1142:G:O2'	1:AA:1143:G:C5'	2.61	0.47
1:AA:1054:C:P	1:AA:1197:G:P	3.13	0.47
1:AA:1272:G:H2'	1:AA:1273:G:C8	2.49	0.47
1:AA:1224:G:O6	1:AA:1322:C:C4'	2.63	0.47
1:AA:135:C:O2	18:AS:1:MET:HG2	2.14	0.47
1:AA:1392:G:O2'	1:AA:1393:U:H5'	2.15	0.47
1:AA:1407:C:C2'	1:AA:1408:A:C5'	2.86	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:141:A:H2'	1:AA:142:G:O4'	2.14	0.47
1:AA:1507:A:C2'	1:AA:1508:G:C5'	2.92	0.47
1:AA:815:A:C6	1:AA:1529:G:C2	3.03	0.47
1:AA:155:C:H2'	1:AA:156:G:O4'	2.15	0.47
1:AA:261:U:H5''	1:AA:262:A:OP2	2.15	0.47
1:AA:485:G:HO2'	1:AA:486:U:H6	1.60	0.47
1:AA:541:G:OP2	1:AA:541:G:H8	1.97	0.47
1:AA:544:G:C4	1:AA:545:C:C5	3.03	0.47
1:AA:588:G:H2'	1:AA:588:G:N3	2.28	0.47
1:AA:691:G:O6	13:AN:26:ASN:O	2.33	0.47
1:AA:748:C:H1'	1:AA:749:C:C5	2.50	0.47
1:AA:896:C:N3	1:AA:897:C:C5	2.83	0.47
1:AA:908:A:C2	1:AA:909:A:C8	3.03	0.47
1:AA:914:A:H2'	1:AA:915:A:N7	2.30	0.47
1:AA:977:A:H2'	1:AA:977:A:N3	2.30	0.47
1:AA:994:A:N7	1:AA:1216:G:C4'	2.69	0.47
3:AB:38:A:H2'	3:AB:39:U:C6	2.48	0.47
3:AB:55:U:OP1	46:BY:178:GLU:CD	2.53	0.47
4:AE:160:ASP:O	4:AE:161:ALA:HB2	2.15	0.47
4:AE:189:ASP:OD2	4:AE:205:ASP:CG	2.54	0.47
4:AE:216:SER:O	4:AE:220:ASP:OD1	2.33	0.47
4:AE:223:ILE:HA	4:AE:226:ARG:HD2	1.97	0.47
4:AE:55:PHE:O	4:AE:58:ILE:CB	2.63	0.47
5:AF:120:VAL:HG21	5:AF:137:ALA:HB2	1.96	0.47
5:AF:132:ARG:C	5:AF:136:GLN:NE2	2.69	0.47
5:AF:88:ARG:N	5:AF:101:LEU:HD12	2.30	0.47
6:AG:38:TYR:CZ	6:AG:45:GLN:NE2	2.83	0.47
6:AG:63:LYS:CG	6:AG:64:LEU:N	2.77	0.47
7:AH:129:ILE:O	7:AH:132:ALA:HB3	2.15	0.47
7:AH:39:GLY:C	7:AH:68:GLU:OE1	2.54	0.47
7:AH:76:ILE:CG2	7:AH:142:LEU:HD13	2.44	0.47
8:AI:33:TYR:CZ	8:AI:75:LEU:HA	2.49	0.47
8:AI:46:ARG:HG2	8:AI:47:ARG:N	2.29	0.47
9:AJ:64:GLN:C	9:AJ:128:ALA:HA	2.36	0.47
9:AJ:37:ASN:O	9:AJ:38:LEU:C	2.53	0.47
10:AK:101:PRO:O	10:AK:102:ARG:HG3	2.14	0.47
10:AK:126:LYS:NZ	10:AK:127:LEU:CD2	2.73	0.47
10:AK:114:THR:HA	10:AK:130:GLY:O	2.15	0.47
11:AL:121:ARG:CG	11:AL:121:ARG:HH11	2.26	0.47
11:AL:17:VAL:CG2	11:AL:77:ILE:HG23	2.44	0.47
12:AM:97:GLU:C	12:AM:98:ILE:HD12	2.36	0.47
13:AN:121:PRO:HB2	13:AN:125:PHE:CD1	2.49	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AO:115:LYS:O	14:AO:116:SER:O	2.33	0.47
15:AP:24:GLY:C	15:AP:66:LEU:HD13	2.35	0.47
15:AP:78:ILE:O	15:AP:81:LEU:HD13	2.15	0.47
16:AQ:35:ARG:C	16:AQ:37:PHE:N	2.67	0.47
16:AQ:36:PHE:CE2	16:AQ:37:PHE:CE1	3.03	0.47
17:AR:18:PHE:O	17:AR:18:PHE:CD1	2.68	0.47
17:AR:75:PRO:HA	17:AR:78:TYR:CD1	2.49	0.47
1:AA:392:G:C5'	18:AS:12:LYS:HZ3	2.27	0.47
1:AA:376:G:OP1	18:AS:6:LEU:CD1	2.62	0.47
19:AT:18:THR:CG2	19:AT:43:LEU:HD21	2.30	0.47
20:AU:46:GLU:CB	20:AU:85:LEU:HD13	2.27	0.47
22:AW:14:LYS:O	22:AW:18:GLN:HG3	2.15	0.47
22:AW:31:SER:O	22:AW:32:ALA:C	2.53	0.47
22:AW:38:LYS:O	22:AW:39:LYS:C	2.53	0.47
22:AW:43:LEU:HB2	22:AW:55:ILE:CD1	2.44	0.47
22:AW:99:LEU:H	22:AW:99:LEU:HD23	1.80	0.47
49:B2:48:GLU:CG	49:B2:49:LYS:N	2.78	0.47
52:B5:19:ARG:O	52:B5:19:ARG:NH1	2.47	0.47
24:BA:1613:G:H1'	53:B6:3:ARG:NE	2.30	0.47
24:BA:2539:C:H1'	55:B8:2:LYS:HZ2	1.80	0.47
24:BA:1030:G:C2	24:BA:1031:G:C4	3.02	0.47
24:BA:1077:A:N7	24:BA:1078:U:N3	2.63	0.47
24:BA:1142(A):A:H3'	24:BA:1143:A:H5'	1.94	0.47
24:BA:1350:C:C2'	24:BA:1351:C:O5'	2.63	0.47
24:BA:187:G:C2'	24:BA:1365:A:C2	2.95	0.47
24:BA:1343:G:C2	24:BA:1405:U:C2	3.03	0.47
24:BA:1448:G:C2'	24:BA:1449:A:H8	2.27	0.47
24:BA:1493:C:N4	24:BA:1499:C:C2	2.82	0.47
24:BA:1449:A:C1'	24:BA:1529:A:C6	2.98	0.47
24:BA:1727:U:C5	24:BA:1730:U:O4	2.68	0.47
24:BA:1741:C:H2'	24:BA:1742:C:C1'	2.44	0.47
24:BA:1753:G:N2	24:BA:1756:G:N3	2.63	0.47
24:BA:1679:U:N3	24:BA:1764:G:H5''	2.29	0.47
24:BA:1878:G:C5	24:BA:1879:C:C5	3.03	0.47
24:BA:1906:G:C1'	24:BA:1929:G:C8	2.98	0.47
24:BA:1953:A:N6	24:BA:2550:G:C5'	2.78	0.47
24:BA:1954:G:O2'	24:BA:1955:U:C5'	2.56	0.47
24:BA:1958:C:H2'	24:BA:1959:G:O5'	2.14	0.47
24:BA:2011:U:H3'	24:BA:2012:G:H8	1.80	0.47
24:BA:2040:C:H4'	34:BM:72:TYR:CE2	2.50	0.47
24:BA:197:A:H5''	24:BA:2068:U:O4	2.14	0.47
24:BA:2067:G:C2	24:BA:2069:G:N9	2.83	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2077:A:H1'	24:BA:2435:A:O4'	2.15	0.47
24:BA:2077:A:O2'	24:BA:2434:A:H4'	2.15	0.47
24:BA:2286:A:N1	52:B5:28:ARG:C	2.68	0.47
24:BA:2324:C:O2'	24:BA:2325:G:OP1	2.31	0.47
24:BA:2071:A:C2	24:BA:2441:C:C4	3.03	0.47
24:BA:2505:G:H8	24:BA:2505:G:H3'	1.78	0.47
24:BA:2585:U:C2'	24:BA:2586:C:OP2	2.62	0.47
24:BA:2642:G:C6	24:BA:2643:G:C5	3.03	0.47
24:BA:2734:A:H3'	24:BA:2735:G:O4'	2.13	0.47
24:BA:2750:A:C8	24:BA:2753:A:N6	2.83	0.47
24:BA:342:G:OP2	24:BA:342:G:H8	1.98	0.47
24:BA:364:C:C2	24:BA:365:C:C5	3.03	0.47
24:BA:448:U:O4	24:BA:583:G:C1'	2.60	0.47
24:BA:548:A:H61	24:BA:549:G:H21	1.62	0.47
24:BA:616:A:O3'	24:BA:617:G:O4'	2.32	0.47
24:BA:260:G:O4'	24:BA:621:A:O4'	2.31	0.47
24:BA:64:A:N3	44:BW:66:LEU:CD2	2.71	0.47
24:BA:675:A:N6	24:BA:804:A:C4	2.83	0.47
24:BA:723:G:C2	24:BA:724:U:H1'	2.50	0.47
24:BA:695:G:C5	24:BA:768:G:C6	3.03	0.47
24:BA:885:C:C5	24:BA:887:A:N3	2.82	0.47
24:BA:979:G:N7	24:BA:981:A:OP2	2.47	0.47
25:BB:81:G:O6	25:BB:96:G:O6	2.33	0.47
27:BD:101:GLU:OE1	27:BD:102:LYS:O	2.33	0.47
27:BD:168:ARG:HA	27:BD:174:ILE:HD12	1.97	0.47
27:BD:62:TYR:N	27:BD:63:ARG:HH22	2.13	0.47
27:BD:91:ARG:NH1	27:BD:198:ASN:ND2	2.63	0.47
28:BE:121:ASN:O	28:BE:122:PHE:C	2.52	0.47
28:BE:49:LEU:CD1	28:BE:51:PHE:H	2.26	0.47
29:BF:168:ARG:H	29:BF:168:ARG:HG3	1.36	0.47
29:BF:200:GLU:CD	29:BF:201:VAL:H	2.15	0.47
29:BF:75:HIS:NE2	29:BF:77:ASP:O	2.48	0.47
30:BG:94:LEU:H	30:BG:94:LEU:HD13	1.80	0.47
24:BA:2748:A:C2	31:BH:67:LEU:HD11	2.50	0.47
33:BL:111:LYS:O	33:BL:113:PRO:CD	2.63	0.47
33:BL:129:GLY:HA2	33:BL:132:ARG:NH2	2.29	0.47
33:BL:79:ARG:CD	33:BL:134:MET:HG3	2.36	0.47
34:BM:107:LEU:HD11	34:BM:113:GLY:C	2.33	0.47
35:BN:21:CYS:CA	35:BN:40:VAL:O	2.62	0.47
35:BN:63:VAL:CG2	35:BN:81:ASP:CA	2.90	0.47
24:BA:2685:G:P	35:BN:67:LYS:HD2	2.55	0.47
35:BN:68:GLU:HB2	35:BN:104:ARG:CD	2.44	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BN:9:GLU:O	35:BN:82:ASN:CA	2.62	0.47
36:BO:70:GLN:O	36:BO:71:VAL:CG2	2.63	0.47
36:BO:95:VAL:HG12	36:BO:95:VAL:O	2.15	0.47
37:BP:118:LEU:O	37:BP:119:ARG:C	2.53	0.47
39:BR:106:ARG:HD3	39:BR:107:GLU:CD	2.35	0.47
39:BR:106:ARG:HD3	39:BR:107:GLU:OE2	2.15	0.47
39:BR:13:ARG:O	39:BR:16:ASN:OD1	2.32	0.47
35:BN:106:LEU:CB	40:BS:39:ARG:HH22	2.08	0.47
40:BS:76:PHE:CE2	40:BS:78:LEU:HD12	2.49	0.47
41:BT:25:TRP:HE3	41:BT:25:TRP:C	2.18	0.47
41:BT:36:ARG:O	41:BT:40:PHE:HD1	1.98	0.47
42:BU:37:VAL:HG13	42:BU:37:VAL:O	2.15	0.47
42:BU:38:LEU:O	42:BU:39:LEU:O	2.33	0.47
42:BU:74:LYS:C	42:BU:75:PHE:CG	2.88	0.47
42:BU:99:ILE:O	42:BU:100:ARG:O	2.33	0.47
45:BX:21:LYS:HD2	45:BX:23:ARG:HH22	1.80	0.47
45:BX:83:THR:HG21	45:BX:84:ARG:NH1	2.29	0.47
45:BX:85:VAL:O	45:BX:87:LYS:N	2.47	0.47
46:BY:1:MET:SD	46:BY:2:GLU:N	2.88	0.47
47:BZ:74:ARG:O	47:BZ:75:LEU:C	2.53	0.47
3:AD:16:U:O5'	3:AD:16:U:H6	1.97	0.47
24:BA:1488:G:H3'	24:BA:1489:U:C5'	2.44	0.47
1:AA:161:A:C6	1:AA:162:A:C6	3.03	0.47
24:BA:1511:A:C3'	24:BA:1511:A:C8	2.98	0.47
24:BA:1417:C:H1'	24:BA:1587:A:N3	2.30	0.47
3:AD:27:G:H2'	3:AD:28:G:C8	2.49	0.47
38:BQ:60:LEU:HD23	38:BQ:60:LEU:N	2.30	0.47
14:AO:125:PRO:O	14:AO:127:GLU:N	2.46	0.47
1:AA:1061:G:H2'	1:AA:1062:U:O4'	2.15	0.46
1:AA:1067:A:O2'	1:AA:1068:G:O5'	2.33	0.46
1:AA:1134:G:N2	1:AA:1136:U:C4	2.84	0.46
1:AA:1148:U:H5'	11:AL:16:ARG:HG3	1.96	0.46
1:AA:954:G:H21	1:AA:1227:A:H62	1.62	0.46
1:AA:1240:U:C2	9:AJ:32:ARG:NE	2.83	0.46
1:AA:1305:G:C2	1:AA:1331:G:C2	3.03	0.46
1:AA:1354:C:H6	1:AA:1354:C:O5'	1.98	0.46
1:AA:1433:A:H62	1:AA:1467:G:H21	0.82	0.46
1:AA:1483:A:H3'	1:AA:1484:C:H6	1.80	0.46
1:AA:1486:G:C6	1:AA:1487:G:C5	3.02	0.46
1:AA:68:G:H5'	1:AA:171:A:C1'	2.45	0.46
1:AA:209:U:OP2	1:AA:209:U:C6	2.68	0.46
1:AA:19:C:C2	1:AA:20:U:C5	3.03	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:311:C:HO2'	1:AA:312:C:H5'	1.79	0.46
1:AA:51:A:N1	1:AA:116:A:C4	2.83	0.46
1:AA:593:G:C6	1:AA:647:C:N3	2.83	0.46
1:AA:666:G:N2	1:AA:741:G:H1'	2.30	0.46
1:AA:686:U:O2'	1:AA:687:A:P	2.73	0.46
1:AA:763:G:N3	1:AA:764:C:C6	2.83	0.46
1:AA:817:C:C5	1:AA:819:A:O4'	2.68	0.46
1:AA:966:G:N2	3:AC:34:G:H5'	2.30	0.46
1:AA:978:A:C3'	1:AA:978:A:C8	2.98	0.46
1:AA:993:G:O6	1:AA:1046:A:N6	2.48	0.46
3:AB:58:A:H5''	3:AB:59:U:OP1	2.15	0.46
3:AC:28:G:C4	3:AC:29:G:N7	2.84	0.46
3:AC:41:C:H3'	3:AC:41:C:OP2	2.15	0.46
3:AC:63:G:H2'	3:AC:64:A:O4'	2.15	0.46
3:AC:72:C:O2'	3:AC:73:A:O4'	2.24	0.46
4:AE:118:LEU:HD12	4:AE:145:LEU:HD23	1.97	0.46
4:AE:71:VAL:HG21	4:AE:93:VAL:HB	1.96	0.46
5:AF:204:LEU:O	5:AF:205:GLY:C	2.53	0.46
6:AG:20:TYR:C	6:AG:22:LYS:H	2.12	0.46
7:AH:151:LEU:HA	7:AH:151:LEU:HD23	1.59	0.46
7:AH:53:LEU:O	7:AH:54:ALA:C	2.53	0.46
8:AI:70:ASP:O	8:AI:73:ASN:ND2	2.48	0.46
9:AJ:129:GLU:HB3	9:AJ:131:LYS:HE2	1.97	0.46
9:AJ:75:VAL:HG13	9:AJ:87:VAL:C	2.35	0.46
10:AK:120:THR:OG1	10:AK:122:ARG:NH1	2.45	0.46
10:AK:6:ILE:CG2	10:AK:85:ARG:NH1	2.78	0.46
11:AL:97:LYS:HD2	11:AL:102:LEU:HD22	1.98	0.46
11:AL:22:GLY:O	11:AL:58:HIS:O	2.33	0.46
11:AL:53:VAL:HG21	11:AL:92:TYR:CD1	2.48	0.46
12:AM:60:ARG:O	12:AM:61:GLU:HB2	2.15	0.46
14:AO:121:GLY:O	14:AO:122:THR:OG1	2.29	0.46
14:AO:36:VAL:HG13	14:AO:36:VAL:O	2.14	0.46
15:AP:14:ARG:HA	15:AP:45:VAL:N	2.26	0.46
17:AR:3:ILE:CD1	17:AR:3:ILE:H	2.24	0.46
1:AA:586:C:P	19:AT:34:LYS:NZ	2.89	0.46
20:AU:43:PHE:CD2	20:AU:56:THR:HG22	2.50	0.46
21:AV:10:PHE:O	21:AV:39:THR:HB	2.15	0.46
1:AA:1320:C:C6	21:AV:37:ARG:NH1	2.83	0.46
21:AV:39:THR:C	21:AV:40:ILE:O	2.53	0.46
21:AV:30:LEU:HD12	21:AV:59:PRO:CB	2.45	0.46
22:AW:51:GLU:CA	22:AW:54:LYS:CE	2.92	0.46
23:AX:4:GLY:C	23:AX:6:ARG:H	2.18	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:B1:33:GLN:NE2	48:B1:33:GLN:H	2.11	0.46
24:BA:96:G:H4'	48:B1:43:HIS:NE2	2.29	0.46
48:B1:54:ARG:NH2	48:B1:54:ARG:CG	2.78	0.46
53:B6:10:ARG:O	53:B6:14:LYS:HG3	2.15	0.46
53:B6:21:ARG:HG2	53:B6:31:LEU:CG	2.44	0.46
24:BA:1024:G:C4'	24:BA:1025:G:H5''	2.43	0.46
24:BA:1141:U:H5'	24:BA:1142(A):A:N6	2.30	0.46
24:BA:976:C:C4'	24:BA:1156:A:N7	2.78	0.46
24:BA:1167:U:C2	24:BA:1183:G:N2	2.83	0.46
24:BA:1268:A:N6	24:BA:2013:A:N7	2.63	0.46
24:BA:1339:G:H1'	24:BA:1393:A:C2	2.50	0.46
24:BA:1359:A:N6	24:BA:1360:A:C5	2.83	0.46
24:BA:1434:A:N1	24:BA:1435:G:C4	2.83	0.46
24:BA:1631:A:C6	24:BA:1632:A:N1	2.83	0.46
24:BA:1658:C:H2'	24:BA:1658:C:O2	2.15	0.46
24:BA:1831:G:C6	24:BA:1975:G:C6	3.02	0.46
24:BA:1919:A:P	24:BA:1919:A:C8	3.08	0.46
24:BA:2013:A:C6	24:BA:2014:A:C6	3.03	0.46
24:BA:2015:A:H8	24:BA:2016:U:C5	2.33	0.46
24:BA:2092:U:H2'	24:BA:2092:U:O2	2.15	0.46
24:BA:2194:G:C2'	24:BA:2195:C:H5	2.28	0.46
24:BA:2199:A:C2	24:BA:2225:A:C2	3.03	0.46
24:BA:221:A:C2'	24:BA:222:A:OP2	2.63	0.46
24:BA:2327:A:C4	24:BA:2328:A:C8	3.03	0.46
24:BA:233:A:C5	24:BA:234:C:C6	3.03	0.46
24:BA:2392:A:C2'	24:BA:2393:A:C5'	2.93	0.46
24:BA:2420:C:OP2	54:B7:33:ASN:O	2.33	0.46
24:BA:199:A:C6	24:BA:2433:A:N3	2.83	0.46
24:BA:2439:A:C4'	24:BA:2440:C:O5'	2.63	0.46
24:BA:2443:C:C2	24:BA:2444:G:N7	2.83	0.46
3:AB:63:G:C4'	24:BA:2482:G:HO2'	2.20	0.46
24:BA:2497:A:O2'	24:BA:2498:C:C5	2.61	0.46
24:BA:2607:G:N1	24:BA:2608:G:N3	2.62	0.46
24:BA:2630:G:C5	24:BA:2894:G:C6	3.03	0.46
24:BA:2685:G:H8	24:BA:2685:G:OP2	1.98	0.46
24:BA:270(Q):C:H2'	24:BA:270(R):G:C8	2.46	0.46
24:BA:280:C:H3'	24:BA:282:A:P	2.55	0.46
24:BA:2838:G:C6	24:BA:2839:G:N7	2.82	0.46
24:BA:2899:G:C6	24:BA:2900:A:N7	2.83	0.46
24:BA:400:G:H3'	24:BA:400:G:H8	1.78	0.46
24:BA:473:G:N1	24:BA:474:G:C6	2.83	0.46
24:BA:535:C:HO2'	24:BA:536:A:H5'	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:539:G:C2	24:BA:540:G:C5	3.03	0.46
24:BA:730:C:O2	24:BA:731:C:C5	2.68	0.46
24:BA:782:A:H4'	24:BA:783:A:N7	2.30	0.46
24:BA:466:A:C2	24:BA:796:C:O4'	2.68	0.46
24:BA:812:C:C2	24:BA:813:U:C5	3.03	0.46
24:BA:853:G:O2'	24:BA:854:G:O4'	2.26	0.46
24:BA:906:G:N2	24:BA:907:U:C2	2.83	0.46
24:BA:822:U:OP2	24:BA:945:A:C3'	2.63	0.46
24:BA:963:U:H2'	24:BA:964:C:O5'	2.15	0.46
25:BB:15:A:N3	25:BB:109:G:H1'	2.30	0.46
25:BB:88:C:H6	25:BB:88:C:O5'	1.97	0.46
27:BD:159:ALA:HA	27:BD:196:VAL:CG1	2.44	0.46
27:BD:228:PRO:O	27:BD:229:VAL:C	2.53	0.46
27:BD:27:THR:HG22	27:BD:29:PRO:HD3	1.90	0.46
24:BA:2731:G:O3'	28:BE:168:MET:HE2	2.14	0.46
29:BF:7:TYR:HD2	29:BF:119:ARG:HB3	1.78	0.46
30:BG:125:PHE:O	30:BG:126:ASP:CB	2.61	0.46
30:BG:123:ASN:ND2	30:BG:126:ASP:OD2	2.47	0.46
30:BG:59:GLU:CB	30:BG:152:LEU:HD13	2.45	0.46
30:BG:3:LEU:HD22	30:BG:4:ASP:OD2	2.14	0.46
31:BH:103:LEU:O	31:BH:104:GLU:C	2.53	0.46
31:BH:24:VAL:HG21	31:BH:72:ILE:HD13	1.97	0.46
31:BH:54:ARG:HB3	31:BH:54:ARG:HH21	1.80	0.46
32:BK:22:LYS:HB2	32:BK:25:TYR:CG	2.50	0.46
24:BA:2198:A:C6	32:BK:29:TYR:HB3	2.51	0.46
33:BL:113:PRO:O	33:BL:115:LEU:N	2.41	0.46
33:BL:71:THR:CB	33:BL:114:ASP:HB3	2.45	0.46
34:BM:7:LYS:HD2	34:BM:10:GLU:HB2	1.97	0.46
34:BM:53:VAL:HG13	34:BM:121:LYS:O	2.15	0.46
34:BM:86:PRO:HD2	34:BM:89:LYS:CD	2.44	0.46
35:BN:23:ARG:CG	35:BN:23:ARG:HH11	2.28	0.46
35:BN:61:VAL:O	35:BN:61:VAL:HG12	2.15	0.46
38:BQ:32:GLY:C	38:BQ:116:LEU:HD21	2.32	0.46
38:BQ:20:LEU:HD21	38:BQ:24:GLN:CD	2.35	0.46
38:BQ:53:HIS:C	38:BQ:53:HIS:ND1	2.68	0.46
39:BR:20:ARG:NH2	39:BR:20:ARG:CB	2.58	0.46
40:BS:104:ASN:HA	40:BS:108:ARG:NH1	2.29	0.46
40:BS:65:LYS:HA	40:BS:76:PHE:C	2.35	0.46
41:BT:54:LYS:HA	41:BT:54:LYS:CE	2.45	0.46
41:BT:80:ILE:O	41:BT:81:HIS:C	2.52	0.46
41:BT:88:ILE:CB	42:BU:52:VAL:HG22	2.45	0.46
42:BU:28:GLU:HB3	42:BU:94:LEU:CD1	2.25	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BU:5:VAL:HG11	42:BU:37:VAL:CG2	2.45	0.46
42:BU:69:LYS:HE2	42:BU:70:ILE:HG13	1.97	0.46
42:BU:7:THR:C	42:BU:9:GLY:N	2.69	0.46
45:BX:31:LEU:O	45:BX:32:PRO:C	2.49	0.46
45:BX:38:ILE:CG2	45:BX:60:PHE:HZ	2.27	0.46
46:BY:149:SER:O	46:BY:150:LEU:HD23	2.16	0.46
46:BY:36:LYS:HB3	46:BY:38:TYR:CE2	2.50	0.46
46:BY:59:LEU:HD11	46:BY:66:SER:OG	2.15	0.46
24:BA:2257:U:OP1	47:BZ:11:ARG:CZ	2.63	0.46
24:BA:2117:A:N6	24:BA:2171:A:C6	2.84	0.46
26:BC:124:GLY:O	26:BC:128:GLY:HA3	2.15	0.46
26:BC:49:ILE:CG1	26:BC:51:PRO:HD3	2.45	0.46
24:BA:2101:G:O2'	24:BA:2102:U:H5'	2.16	0.46
2:A1:6:U:C2'	2:A1:7:U:C5	2.88	0.46
1:AA:1164:G:N1	1:AA:1165:C:C2	2.82	0.46
24:BA:273(E):U:C2	24:BA:363(B):G:C2	3.03	0.46
3:AB:66:U:C4	3:AB:67:C:C5	3.03	0.46
2:A1:8:U:H5'	4:AE:19:HIS:CE1	2.50	0.46
1:AA:1034:G:H2'	1:AA:1035:A:H8	1.81	0.46
1:AA:1075:C:C4'	1:AA:1101:A:N6	2.71	0.46
1:AA:1133:G:C6	1:AA:1142:G:C6	3.03	0.46
1:AA:1189:C:O5'	1:AA:1189:C:H6	1.99	0.46
1:AA:1193:G:C3'	1:AA:1193:G:C8	2.98	0.46
1:AA:1323:G:H4'	1:AA:1362(A):C:N4	2.29	0.46
1:AA:1402:C:C5	1:AA:1403:C:C5	3.03	0.46
1:AA:150:C:O2	1:AA:151:A:C8	2.68	0.46
1:AA:148:G:C2	1:AA:175:C:C4	3.03	0.46
1:AA:175:C:H2'	1:AA:176:C:H6	1.80	0.46
1:AA:184:G:O4'	1:AA:224:C:H4'	2.14	0.46
1:AA:20:U:H5	1:AA:916:G:N1	2.12	0.46
1:AA:292:G:H3'	1:AA:293:G:H8	1.79	0.46
1:AA:352:C:H4'	1:AA:354:G:OP1	2.15	0.46
1:AA:362:G:C8	14:AO:34:ARG:NH2	2.65	0.46
1:AA:375:U:O3'	18:AS:6:LEU:HD11	2.15	0.46
1:AA:47:C:C5	1:AA:365:U:C2	3.03	0.46
1:AA:47:C:O2'	1:AA:48:C:O5'	2.33	0.46
1:AA:571:U:H4'	1:AA:572:A:OP2	2.16	0.46
1:AA:573:A:N1	1:AA:574:A:C6	2.83	0.46
1:AA:293:G:H5'	1:AA:609:A:N1	2.30	0.46
1:AA:728:A:N6	1:AA:729:A:C6	2.83	0.46
1:AA:817:C:H1'	1:AA:819:A:C5'	2.46	0.46
1:AA:81:G:H5"	1:AA:82:U:OP2	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:901:A:H2'	1:AA:902:G:O5'	2.15	0.46
1:AA:929:G:C6	1:AA:930:C:C4	3.03	0.46
3:AC:69:G:H2'	3:AC:70:G:H8	1.80	0.46
3:AD:76:A:C2	24:BA:2432:A:O5'	2.68	0.46
3:AD:76:A:P	24:BA:2421:G:N2	2.86	0.46
1:AA:1104:G:H4'	4:AE:111:ARG:NH2	2.30	0.46
4:AE:32:ILE:HG22	4:AE:32:ILE:O	2.14	0.46
4:AE:48:MET:O	4:AE:49:GLU:C	2.50	0.46
4:AE:73:THR:CG2	4:AE:95:GLN:O	2.59	0.46
5:AF:194:GLY:O	5:AF:196:LEU:HD23	2.15	0.46
5:AF:8:ILE:CD1	5:AF:16:ARG:HD2	2.44	0.46
6:AG:145:GLU:CB	6:AG:184:LYS:HG2	2.36	0.46
6:AG:17:VAL:O	6:AG:19:LEU:CD2	2.63	0.46
6:AG:82:ALA:C	6:AG:89:THR:HG23	2.35	0.46
8:AI:1:MET:CA	8:AI:67:MET:O	2.64	0.46
8:AI:24:GLU:O	8:AI:27:GLN:N	2.49	0.46
9:AJ:106:GLN:N	9:AJ:106:GLN:HE21	2.12	0.46
9:AJ:143:ARG:O	9:AJ:145:ALA:O	2.33	0.46
9:AJ:38:LEU:CA	9:AJ:41:ARG:HB2	2.45	0.46
10:AK:82:HIS:CD2	10:AK:138:TRP:NE1	2.83	0.46
1:AA:1342:C:C4'	11:AL:125:TYR:HB2	2.37	0.46
13:AN:28:THR:CG2	13:AN:29:ILE:H	2.28	0.46
13:AN:32:ILE:HD13	13:AN:72:ALA:HA	1.97	0.46
1:AA:551:U:C5'	14:AO:119:LYS:HZ3	2.23	0.46
15:AP:108:ARG:HH12	15:AP:111:LYS:HB3	1.73	0.46
15:AP:20:THR:CG2	15:AP:20:THR:O	2.64	0.46
15:AP:20:THR:O	15:AP:25:ILE:O	2.34	0.46
18:AS:71:ARG:CB	18:AS:71:ARG:NH1	2.78	0.46
19:AT:43:LEU:CD2	19:AT:44:ALA:N	2.61	0.46
19:AT:91:ARG:HG2	19:AT:92:ARG:N	2.29	0.46
21:AV:16:LEU:HD12	21:AV:44:MET:CE	2.38	0.46
22:AW:25:ARG:HH11	22:AW:25:ARG:CG	2.26	0.46
22:AW:38:LYS:HA	22:AW:41:ILE:HD12	1.97	0.46
22:AW:60:GLU:OE1	22:AW:81:LYS:HD3	2.15	0.46
23:AX:15:ARG:HB3	23:AX:17:THR:HG23	1.97	0.46
48:B1:17:GLU:O	48:B1:21:ARG:HG2	2.14	0.46
50:B3:58:ARG:C	50:B3:62:ARG:NE	2.69	0.46
50:B3:64:GLY:O	50:B3:67:TYR:HB2	2.14	0.46
50:B3:7:PRO:O	50:B3:8:LYS:CB	2.63	0.46
51:B4:15:ARG:O	51:B4:16:ARG:C	2.54	0.46
52:B5:16:CYS:HB2	52:B5:49:HIS:C	2.34	0.46
54:B7:26:LYS:CE	54:B7:45:GLY:H	2.28	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1024:G:N1	24:BA:1025:G:N7	2.63	0.46
24:BA:1065:U:N3	24:BA:1066:U:O4'	2.48	0.46
24:BA:1256:G:H2'	24:BA:1257:C:O5'	2.16	0.46
24:BA:122:G:N2	24:BA:130:C:H1'	2.31	0.46
24:BA:1542:G:C1'	24:BA:1543:A:C5	2.98	0.46
24:BA:1654:A:N1	24:BA:1655:A:C8	2.84	0.46
24:BA:1683:C:C2'	24:BA:1684:C:O5'	2.63	0.46
24:BA:1690:A:H2'	24:BA:1691:C:C5'	2.44	0.46
24:BA:1754:C:OP1	40:BS:98:LYS:HD2	2.15	0.46
24:BA:1789:A:H2'	24:BA:1789:A:N3	2.30	0.46
24:BA:1803:A:H5''	27:BD:257:LEU:HB3	1.97	0.46
24:BA:1914:C:C2	24:BA:1915:U:H5	2.34	0.46
24:BA:1936:A:N9	24:BA:1940:U:N3	2.64	0.46
24:BA:2033:A:O5'	24:BA:2033:A:H8	1.99	0.46
24:BA:2046:G:H2'	24:BA:2047:U:H5	1.78	0.46
24:BA:397:G:HO2'	24:BA:2231:C:H1'	1.79	0.46
24:BA:2334:G:H22	25:BB:12:C:N4	2.03	0.46
24:BA:2377:A:H2'	24:BA:2378:A:N7	2.30	0.46
24:BA:237:C:N3	24:BA:238:C:C5	2.84	0.46
24:BA:2562:U:H2'	24:BA:2563:U:C5'	2.45	0.46
24:BA:2583:G:H5''	24:BA:2584:U:OP2	2.15	0.46
24:BA:2665:A:H8	24:BA:2665:A:C3'	2.09	0.46
24:BA:2705:A:H8	24:BA:2705:A:O5'	1.98	0.46
24:BA:270(R):G:C2	24:BA:270(S):G:C4	3.03	0.46
24:BA:270(Z):U:O2	24:BA:271(B):G:OP1	2.32	0.46
24:BA:2756:U:C4	24:BA:2758:A:C6	3.00	0.46
24:BA:2780:G:N2	34:BM:97:ARG:CZ	2.77	0.46
24:BA:278:A:N7	24:BA:359:A:H2	2.12	0.46
24:BA:2826:A:C5	24:BA:2827:C:C5	3.03	0.46
24:BA:294:A:N6	24:BA:345:A:C6	2.83	0.46
24:BA:37:C:O2'	29:BF:50:SER:HA	2.14	0.46
24:BA:416:C:C5	24:BA:417:C:C4	3.03	0.46
24:BA:29:U:O4	24:BA:447:A:H5''	2.14	0.46
24:BA:46:C:OP2	24:BA:215:G:C3'	2.55	0.46
24:BA:553:U:H2'	24:BA:554:U:C1'	2.45	0.46
24:BA:638:G:O6	24:BA:639:U:N3	2.48	0.46
24:BA:629:G:H5'	24:BA:649:G:N2	2.31	0.46
24:BA:64:A:H4'	44:BW:73:ARG:H	1.79	0.46
24:BA:666:G:H2'	24:BA:667:U:H6	1.79	0.46
24:BA:714:U:H6	24:BA:714:U:P	2.38	0.46
24:BA:729:G:O2'	24:BA:730:C:O3'	2.30	0.46
24:BA:813:U:OP2	36:BO:26:GLY:CA	2.57	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:858:U:H2'	24:BA:2268:A:N7	2.30	0.46
24:BA:918:A:H2	24:BA:919:G:C8	2.33	0.46
24:BA:569:U:OP1	24:BA:945:A:C6	2.68	0.46
24:BA:952:G:C6	24:BA:966:G:N1	2.83	0.46
25:BB:27:C:N4	25:BB:56:G:C6	2.74	0.46
28:BE:125:GLY:H	28:BE:136:ARG:CA	2.24	0.46
24:BA:2619:C:H5"	28:BE:152:LYS:CA	2.45	0.46
28:BE:33:VAL:HG22	28:BE:47:VAL:C	2.35	0.46
28:BE:52:LEU:CA	28:BE:74:PRO:HA	2.29	0.46
28:BE:53:PRO:HG2	28:BE:75:VAL:HG13	1.97	0.46
29:BF:39:TRP:C	29:BF:39:TRP:CD2	2.88	0.46
30:BG:101:ILE:CD1	30:BG:101:ILE:O	2.52	0.46
30:BG:16:ARG:C	30:BG:20:ILE:HG13	2.36	0.46
30:BG:174:GLU:OE2	30:BG:175:LEU:CG	2.61	0.46
30:BG:19:LEU:O	30:BG:20:ILE:C	2.54	0.46
30:BG:36:LYS:HZ3	30:BG:38:VAL:HG13	1.78	0.46
31:BH:101:ARG:HE	31:BH:101:ARG:HA	1.80	0.46
33:BL:10:LEU:HD22	33:BL:57:ILE:HG12	1.94	0.46
35:BN:52:VAL:O	35:BN:53:LYS:CB	2.64	0.46
35:BN:64:ARG:HE	35:BN:67:LYS:C	2.19	0.46
35:BN:70:LYS:HE2	35:BN:104:ARG:HG2	1.96	0.46
36:BO:137:LYS:N	36:BO:137:LYS:HZ2	2.13	0.46
36:BO:33:ARG:O	36:BO:35:HIS:N	2.48	0.46
38:BQ:61:HIS:CE1	38:BQ:64:ARG:HE	2.33	0.46
39:BR:70:GLY:C	39:BR:72:ALA:N	2.68	0.46
39:BR:82:ILE:HG13	39:BR:84:GLN:HE22	1.80	0.46
40:BS:48:ILE:CG2	40:BS:50:ILE:HD11	2.46	0.46
40:BS:29:ARG:HG2	40:BS:51:ARG:CB	2.44	0.46
40:BS:54:ARG:CA	40:BS:64:ARG:HB2	2.44	0.46
40:BS:87:ASP:O	40:BS:88:ILE:HG13	2.14	0.46
24:BA:515:A:H5'	41:BT:32:PHE:CZ	2.50	0.46
41:BT:32:PHE:O	41:BT:35:ALA:CB	2.59	0.46
41:BT:33:ARG:O	41:BT:35:ALA:N	2.48	0.46
43:BV:24:ILE:CG2	43:BV:35:ILE:HG23	2.45	0.46
44:BW:49:VAL:HG23	44:BW:50:LYS:N	2.29	0.46
44:BW:87:GLN:CD	44:BW:87:GLN:N	2.68	0.46
46:BY:77:ASP:HB3	46:BY:81:ARG:O	2.15	0.46
24:BA:2353:G:O2'	47:BZ:33:ALA:O	2.32	0.46
47:BZ:40:GLN:HE21	47:BZ:57:PHE:HB3	1.80	0.46
26:BC:113:VAL:O	26:BC:144:THR:HG22	2.15	0.46
26:BC:188:ASN:O	26:BC:189:ILE:C	2.54	0.46
48:B1:6:GLU:O	48:B1:9:ARG:N	2.48	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1382:C:H2'	1:AA:1383:C:C5	2.50	0.46
10:AK:54:ASP:O	10:AK:56:LYS:CD	2.62	0.46
32:BK:51:ILE:O	32:BK:52:ARG:C	2.53	0.46
4:AE:230:VAL:HG12	4:AE:231:GLU:N	2.29	0.46
1:AA:1072:G:C6	1:AA:1104:G:N1	2.84	0.46
1:AA:1284:C:N3	1:AA:1285:A:C6	2.83	0.46
1:AA:1468:A:C2'	1:AA:1469:G:O5'	2.63	0.46
1:AA:1479:C:H2'	1:AA:1480:G:C8	2.50	0.46
1:AA:1480:G:H2'	1:AA:1481:U:O5'	2.14	0.46
1:AA:1486:G:C2	1:AA:1487:G:C4	3.02	0.46
1:AA:1508:G:O2'	1:AA:1509:C:C5'	2.63	0.46
1:AA:141:A:O2'	1:AA:182:U:C6	2.58	0.46
1:AA:322:C:O2'	1:AA:323:U:C5'	2.56	0.46
1:AA:34:C:H2'	1:AA:35:G:C8	2.43	0.46
1:AA:390:C:C2'	1:AA:391:G:O5'	2.64	0.46
1:AA:424:G:C2	1:AA:425:G:C8	3.04	0.46
1:AA:494:U:H2'	1:AA:495:A:H5'	1.96	0.46
1:AA:59:A:H1'	1:AA:354:G:C2	2.50	0.46
1:AA:600:C:N3	1:AA:601:C:C5	2.83	0.46
1:AA:706:A:H4'	13:AN:29:ILE:HD11	1.98	0.46
1:AA:734:G:H8	1:AA:734:G:OP1	1.99	0.46
1:AA:89:U:C2	1:AA:90:C:C5	3.03	0.46
1:AA:20:U:C6	1:AA:916:G:N2	2.83	0.46
1:AA:945:G:C6	1:AA:1337:G:C5	3.03	0.46
3:AC:14:A:C5	3:AC:15:G:N7	2.83	0.46
3:AD:76:A:C2'	24:BA:2432:A:H4'	2.45	0.46
4:AE:100:GLY:C	4:AE:104:ASN:ND2	2.69	0.46
4:AE:139:LYS:CG	4:AE:140:HIS:H	2.23	0.46
4:AE:115:LEU:CB	4:AE:145:LEU:HG	2.44	0.46
5:AF:122:GLU:O	5:AF:125:GLU:N	2.48	0.46
5:AF:127:ARG:C	5:AF:128:PHE:HD1	2.18	0.46
5:AF:190:ARG:CA	5:AF:190:ARG:NE	2.73	0.46
6:AG:149:ALA:O	6:AG:150:GLU:O	2.34	0.46
6:AG:20:TYR:HA	6:AG:31:CYS:SG	2.55	0.46
6:AG:62:GLN:C	6:AG:66:ARG:HD2	2.36	0.46
6:AG:77:ASN:HA	6:AG:80:GLU:OE2	2.16	0.46
6:AG:80:GLU:O	6:AG:81:GLU:C	2.51	0.46
7:AH:102:ALA:O	7:AH:107:ARG:NH2	2.48	0.46
7:AH:133:TYR:HA	7:AH:136:MET:HG2	1.96	0.46
7:AH:84:PHE:HZ	7:AH:133:TYR:HB3	1.68	0.46
7:AH:149:GLU:OE2	7:AH:149:GLU:HA	2.15	0.46
7:AH:48:ALA:HB3	7:AH:54:ALA:N	2.30	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AI:19:LEU:HD11	8:AI:23:LYS:HZ2	1.80	0.46
8:AI:21:LEU:O	8:AI:25:ILE:HG13	2.15	0.46
10:AK:19:VAL:O	10:AK:20:TYR:CB	2.63	0.46
11:AL:37:PHE:HB3	11:AL:40:LEU:HB2	1.96	0.46
12:AM:24:VAL:CG2	12:AM:34:VAL:HG11	2.42	0.46
13:AN:73:MET:C	13:AN:75:TYR:H	2.18	0.46
13:AN:87:THR:CG2	13:AN:91:ARG:HH12	2.24	0.46
1:AA:37:U:P	14:AO:123:LYS:HB3	2.53	0.46
14:AO:23:LYS:HA	14:AO:23:LYS:CE	2.21	0.46
14:AO:82:VAL:CG1	14:AO:83:VAL:H	2.22	0.46
16:AQ:40:CYS:O	16:AQ:41:ARG:C	2.54	0.46
17:AR:56:LEU:O	17:AR:59:MET:HB3	2.14	0.46
18:AS:51:VAL:HG22	18:AS:73:LEU:HD11	1.96	0.46
19:AT:15:MET:HE3	19:AT:15:MET:H	1.79	0.46
21:AV:18:LYS:HG2	21:AV:31:ILE:HG21	1.96	0.46
22:AW:23:ARG:NH2	22:AW:24:LEU:HD23	2.31	0.46
48:B1:22:GLU:OE1	48:B1:22:GLU:CA	2.63	0.46
48:B1:33:GLN:HA	48:B1:36:ILE:HG22	1.97	0.46
48:B1:45:ILE:HD12	48:B1:46:ARG:N	2.30	0.46
50:B3:54:GLY:O	50:B3:55:ARG:HB3	2.16	0.46
50:B3:7:PRO:HD3	50:B3:56:VAL:HG12	1.92	0.46
51:B4:51:TYR:CD1	51:B4:55:ARG:CD	2.96	0.46
52:B5:19:ARG:HD3	52:B5:19:ARG:N	2.13	0.46
53:B6:34:ARG:HH12	53:B6:42:LEU:HG	1.81	0.46
24:BA:1026:U:H2'	24:BA:1027:A:O5'	2.16	0.46
24:BA:1044:G:C4'	24:BA:1047:G:O2'	2.64	0.46
24:BA:1058:G:C2	24:BA:1059:G:C8	3.03	0.46
24:BA:1062:G:N2	33:BL:91:PRO:CG	2.73	0.46
24:BA:1021:A:O2'	24:BA:1123:C:H5''	2.16	0.46
24:BA:1228:G:N1	24:BA:1229:G:C5	2.84	0.46
24:BA:1360:A:H2'	24:BA:1361:G:O4'	2.15	0.46
24:BA:1378:A:C2	24:BA:1380:G:H1'	2.51	0.46
24:BA:1381:G:C6	24:BA:1382:G:C6	3.04	0.46
24:BA:1559:G:C2	24:BA:1560:G:O5'	2.69	0.46
24:BA:1650:G:C2	24:BA:1651:G:C1'	2.98	0.46
24:BA:1743:G:C5	24:BA:1746:G:C8	3.04	0.46
24:BA:1754:C:N3	24:BA:1755:A:C4	2.83	0.46
24:BA:151:C:N3	24:BA:175:G:N1	2.63	0.46
24:BA:1775:U:C1'	27:BD:208:LYS:HZ2	2.29	0.46
24:BA:1811:G:H2'	24:BA:1812:A:C8	2.50	0.46
24:BA:1816:G:O3'	24:BA:1817:G:C8	2.68	0.46
24:BA:1842:G:C4	24:BA:1843:C:C6	3.04	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2004:G:H2'	24:BA:2005:A:H8	1.80	0.46
24:BA:200:U:C3'	24:BA:201:C:H5'	2.46	0.46
24:BA:2010:G:P	43:BV:41:LYS:NZ	2.88	0.46
24:BA:2087:G:H5''	24:BA:2087:G:C8	2.50	0.46
24:BA:2199:A:OP2	24:BA:2205:C:C5	2.67	0.46
24:BA:2242:G:C6	24:BA:2243:U:C4	3.04	0.46
24:BA:224:G:N7	24:BA:420:C:H4'	2.30	0.46
24:BA:2250:G:O2'	24:BA:2496:C:C5'	2.63	0.46
24:BA:2253:G:C2'	24:BA:2254:C:O5'	2.64	0.46
24:BA:2254:C:C2'	24:BA:2255:G:C5'	2.78	0.46
24:BA:2289:G:H2'	24:BA:2289:G:N3	2.30	0.46
24:BA:2350:C:O2'	24:BA:2351:G:OP1	2.32	0.46
24:BA:236:C:C2	24:BA:237:C:C5	3.03	0.46
24:BA:2377:A:C4	24:BA:2378:A:N7	2.83	0.46
3:AB:53:G:H4'	24:BA:2470:G:H5''	1.94	0.46
24:BA:2696:U:O2'	24:BA:2697:G:C5'	2.63	0.46
24:BA:270(H):C:C2	24:BA:270(I):G:C8	3.03	0.46
24:BA:273:G:C4	24:BA:273(A):G:N7	2.83	0.46
24:BA:270(X):G:C4'	24:BA:273:G:H5'	2.44	0.46
24:BA:2781:A:H2'	24:BA:2782:G:C4'	2.46	0.46
24:BA:2781:A:H3'	24:BA:2781:A:H8	1.70	0.46
24:BA:278:A:O2'	24:BA:279:C:C1'	2.63	0.46
24:BA:2817:G:C4	24:BA:2818:G:C8	3.04	0.46
24:BA:2693:A:O2'	24:BA:2848:G:H5''	2.16	0.46
24:BA:2851:A:H2'	24:BA:2852:G:O5'	2.15	0.46
24:BA:2857:G:O5'	24:BA:2857:G:H8	1.97	0.46
24:BA:2898:U:C2	24:BA:2899:G:C8	3.04	0.46
24:BA:364:C:N3	24:BA:365:C:N4	2.62	0.46
24:BA:380:U:O2'	24:BA:381:G:H5'	2.16	0.46
24:BA:468:G:H2'	24:BA:469:G:C5'	2.45	0.46
24:BA:469:G:N1	53:B6:40:TRP:CZ2	2.83	0.46
24:BA:495:G:H2'	24:BA:496:G:O5'	2.15	0.46
24:BA:531:C:C4'	24:BA:532:A:N3	2.79	0.46
24:BA:531:C:C5'	24:BA:532:A:N3	2.77	0.46
24:BA:696:G:HO2'	24:BA:697:C:H5'	1.79	0.46
24:BA:776:G:HO2'	24:BA:777:A:P	2.36	0.46
24:BA:669:G:C6	24:BA:801:G:C6	3.03	0.46
24:BA:818:G:H21	24:BA:1189:A:H62	1.63	0.46
24:BA:663:G:C2'	24:BA:940:G:H4'	2.43	0.46
24:BA:981:A:O2'	24:BA:2036:C:O2'	2.23	0.46
24:BA:997:G:C2	24:BA:998:C:C4	3.03	0.46
24:BA:997:G:C2	24:BA:998:C:C5	3.03	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:32:C:O2	25:BB:33:G:C8	2.69	0.46
25:BB:55:U:C2'	25:BB:56:G:C5'	2.93	0.46
27:BD:119:ALA:CB	27:BD:130:ALA:O	2.57	0.46
24:BA:1695:G:C1'	27:BD:15:PHE:HB3	2.45	0.46
27:BD:259:THR:HG22	27:BD:260:ARG:H	1.81	0.46
28:BE:176:ILE:HG22	28:BE:181:LEU:C	2.34	0.46
28:BE:50:GLY:O	28:BE:76:ARG:NE	2.39	0.46
29:BF:200:GLU:O	29:BF:203:GLN:N	2.48	0.46
29:BF:51:THR:O	29:BF:52:LYS:CG	2.63	0.46
30:BG:113:ARG:O	30:BG:114:ILE:CB	2.63	0.46
31:BH:45:VAL:HG13	31:BH:50:VAL:CG1	2.44	0.46
31:BH:89:ILE:CD1	31:BH:90:LYS:N	2.76	0.46
32:BK:33:ARG:HB3	32:BK:35:LEU:CD2	2.45	0.46
34:BM:31:ALA:O	34:BM:34:LEU:N	2.48	0.46
35:BN:68:GLU:HA	35:BN:104:ARG:HH12	1.73	0.46
36:BO:52:GLU:O	36:BO:55:ARG:CB	2.63	0.46
37:BP:63:LYS:O	37:BP:107:ALA:HA	2.15	0.46
37:BP:85:LYS:HZ2	47:BZ:10:THR:CB	2.29	0.46
37:BP:90:VAL:C	37:BP:91:GLU:OE2	2.54	0.46
38:BQ:17:ARG:HG3	38:BQ:18:LEU:HD22	1.95	0.46
39:BR:62:LYS:CB	39:BR:65:VAL:H	2.19	0.46
39:BR:73:LEU:CA	39:BR:76:LYS:HD2	2.44	0.46
40:BS:71:GLY:N	40:BS:74:ARG:HH12	2.12	0.46
24:BA:1216:G:OP1	41:BT:11:ARG:HD2	2.14	0.46
41:BT:61:TRP:CZ3	41:BT:93:LYS:HA	2.51	0.46
41:BT:61:TRP:O	41:BT:65:ILE:CG1	2.62	0.46
41:BT:67:ALA:O	41:BT:71:GLN:CD	2.54	0.46
43:BV:25:ARG:NH2	43:BV:74:ALA:O	2.48	0.46
43:BV:86:LEU:HB3	43:BV:87:PRO:CD	2.44	0.46
24:BA:748:G:P	43:BV:88:ARG:NE	2.88	0.46
45:BX:37:VAL:HG22	45:BX:37:VAL:O	2.15	0.46
46:BY:19:ARG:HH21	46:BY:84:GLU:HA	1.80	0.46
46:BY:27:VAL:HG22	46:BY:85:HIS:CE1	2.35	0.46
26:BC:103:ILE:HG22	26:BC:130:ILE:HG21	1.97	0.46
26:BC:74:VAL:CG2	26:BC:112:ALA:HB3	2.34	0.46
26:BC:61:THR:HG21	26:BC:160:ARG:CZ	2.45	0.46
26:BC:21:THR:HG22	26:BC:225:ASN:HB3	1.96	0.46
26:BC:68:LEU:CG	26:BC:69:GLY:N	2.78	0.46
26:BC:75:LEU:CD2	26:BC:77:ILE:HD11	2.32	0.46
1:AA:342:C:O2'	1:AA:343:U:H5'	2.16	0.46
1:AA:1381:U:H2'	1:AA:1381:U:O2	2.14	0.46
15:AP:121:LYS:O	15:AP:122:LYS:CB	2.63	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AI:54:LYS:N	8:AI:54:LYS:HD2	2.31	0.46
22:AW:96:GLY:O	22:AW:97:ALA:HB3	2.15	0.46
1:AA:998:G:C6	1:AA:1044:A:C6	3.03	0.46
1:AA:1055:A:H2'	1:AA:1056:U:O5'	2.16	0.46
1:AA:1079:G:N2	1:AA:1080:A:N1	2.62	0.46
1:AA:1095:U:N3	1:AA:1096:C:C5	2.83	0.46
1:AA:1192:C:C5	1:AA:1193:G:N7	2.83	0.46
1:AA:1206:G:C2	1:AA:1207:G:C4	3.03	0.46
1:AA:1268:A:C2	1:AA:1327:C:H1'	2.50	0.46
1:AA:1269:A:H2'	1:AA:1270:C:O4'	2.15	0.46
1:AA:1224:G:C6	1:AA:1322:C:H4'	2.51	0.46
1:AA:133:U:C4'	1:AA:134:A:OP1	2.64	0.46
1:AA:949:A:O2'	1:AA:1364:U:N3	2.46	0.46
1:AA:1497:G:H2'	1:AA:1498:U:H6	1.80	0.46
1:AA:1532:U:O5'	1:AA:1532:U:H6	1.98	0.46
1:AA:185:A:C6	1:AA:186:C:N4	2.84	0.46
1:AA:20:U:H5'	1:AA:572:A:C6	2.49	0.46
1:AA:410:G:N3	1:AA:432:A:C6	2.83	0.46
1:AA:517:G:N7	1:AA:531:U:C2	2.83	0.46
1:AA:553:A:H2'	1:AA:554:C:C1'	2.46	0.46
1:AA:578:C:C2'	1:AA:728:A:N3	2.78	0.46
1:AA:625:G:H2'	1:AA:626:U:H6	1.80	0.46
1:AA:766:A:C2	1:AA:767:A:C4	3.03	0.46
1:AA:714:G:C1'	1:AA:777:A:N7	2.77	0.46
1:AA:791:G:C8	1:AA:792:A:C8	3.03	0.46
1:AA:802:A:H2'	1:AA:803:G:O4'	2.15	0.46
1:AA:87:A:C8	1:AA:88:C:N1	2.84	0.46
1:AA:88:C:O2'	1:AA:89:U:P	2.74	0.46
1:AA:902:G:C2'	1:AA:903:G:H5'	2.43	0.46
1:AA:9:G:C8	7:AH:126:ARG:NH1	2.84	0.46
3:AB:74:C:O3'	3:AB:74:C:OP1	2.33	0.46
3:AB:75:C:O2	24:BA:2507:C:O2'	2.24	0.46
3:AC:38:A:C8	3:AC:39:U:C5	3.03	0.46
4:AE:20:GLU:OE2	4:AE:189:ASP:OD2	2.33	0.46
4:AE:32:ILE:HD11	4:AE:40:HIS:CD2	2.39	0.46
5:AF:11:ARG:N	5:AF:11:ARG:HE	2.13	0.46
5:AF:48:TYR:C	5:AF:48:TYR:HD2	2.17	0.46
6:AG:110:PHE:HZ	6:AG:147:ALA:HB1	1.80	0.46
6:AG:175:SER:OG	6:AG:184:LYS:O	2.27	0.46
6:AG:60:GLU:OE1	6:AG:202:LEU:HD12	2.15	0.46
7:AH:32:VAL:C	7:AH:43:LEU:HG	2.35	0.46
7:AH:98:THR:HB	7:AH:117:ASP:HA	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AI:3:ARG:O	8:AI:93:SER:OG	2.32	0.46
8:AI:56:PRO:HG2	8:AI:57:GLN:OE1	2.15	0.46
8:AI:4:TYR:CD1	8:AI:90:VAL:HG22	2.51	0.46
8:AI:4:TYR:HD1	8:AI:90:VAL:HG22	1.80	0.46
10:AK:111:ILE:CD1	10:AK:111:ILE:N	2.59	0.46
10:AK:20:TYR:CE2	10:AK:75:ARG:HD2	2.51	0.46
11:AL:101:PHE:O	11:AL:102:LEU:HD23	2.16	0.46
11:AL:114:TYR:O	11:AL:116:LYS:NZ	2.47	0.46
11:AL:49:PRO:HB2	11:AL:82:ALA:CA	2.46	0.46
12:AM:40:LEU:CB	12:AM:69:ASN:HB2	2.46	0.46
12:AM:74:ILE:HD11	12:AM:85:LEU:HD21	1.96	0.46
13:AN:32:ILE:O	13:AN:39:PRO:HB2	2.16	0.46
15:AP:13:LYS:HD3	15:AP:17:VAL:HG11	1.96	0.46
15:AP:7:VAL:CG1	30:BG:140:ILE:CG2	2.89	0.46
15:AP:3:ARG:CG	15:AP:7:VAL:HG12	2.44	0.46
15:AP:81:LEU:CD1	15:AP:88:ARG:HH22	2.21	0.46
16:AQ:24:CYS:SG	16:AQ:27:CYS:C	2.94	0.46
5:AF:29:TYR:CD1	16:AQ:36:PHE:CE1	3.03	0.46
16:AQ:45:ARG:HG3	16:AQ:46:GLU:N	2.31	0.46
18:AS:63:GLY:O	18:AS:64:ALA:C	2.52	0.46
18:AS:56:ALA:HB1	18:AS:74:LEU:CD1	2.45	0.46
20:AU:22:VAL:O	20:AU:24:ALA:N	2.48	0.46
21:AV:62:ILE:HD11	21:AV:67:VAL:CB	2.44	0.46
23:AX:3:LYS:NZ	23:AX:13:ILE:HG21	2.31	0.46
48:B1:29:GLU:O	48:B1:33:GLN:OE1	2.33	0.46
49:B2:52:HIS:ND1	49:B2:53:LEU:HG	2.29	0.46
50:B3:25:TYR:N	50:B3:25:TYR:CD2	2.79	0.46
50:B3:38:LYS:HG2	50:B3:39:CYS:N	2.25	0.46
24:BA:2286:A:C1'	52:B5:37:ARG:HH21	2.27	0.46
54:B7:39:LYS:CB	54:B7:39:LYS:HZ3	2.26	0.46
55:B8:10:ILE:CD1	55:B8:14:CYS:SG	3.03	0.46
55:B8:2:LYS:HB3	55:B8:35:ARG:O	2.15	0.46
24:BA:1023:U:O4	24:BA:1024:G:H1'	2.14	0.46
24:BA:1060:U:OP2	33:BL:73:PRO:HG3	2.15	0.46
24:BA:117:G:C5	24:BA:119:A:N6	2.84	0.46
24:BA:1182:A:H2'	24:BA:1182:A:N3	2.30	0.46
24:BA:814:C:C2'	24:BA:1224:G:H22	2.29	0.46
24:BA:1227:A:C8	24:BA:1227:A:C3'	2.97	0.46
24:BA:1334:G:C2'	24:BA:1335:U:O5'	2.62	0.46
24:BA:1338:G:C2'	24:BA:1339:G:H5'	2.45	0.46
24:BA:1358:G:O2'	24:BA:1373:A:N6	2.40	0.46
24:BA:1343:G:O6	24:BA:1404:C:C4	2.68	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1422:G:C4	24:BA:1423:G:C8	3.03	0.46
24:BA:1529:A:H3'	24:BA:1530:G:C8	2.46	0.46
24:BA:1542:G:H1'	24:BA:1543:A:C5	2.43	0.46
24:BA:1661:G:C2	24:BA:2000:G:C4	3.04	0.46
24:BA:1665:A:C2	24:BA:1666:G:C4	3.03	0.46
24:BA:1666:G:H5''	24:BA:1667:G:OP2	2.15	0.46
24:BA:1796:U:H2'	24:BA:1797:C:H6	1.80	0.46
24:BA:1844:C:N3	24:BA:1845:G:N7	2.62	0.46
24:BA:1892:C:N3	24:BA:1893:C:C5	2.83	0.46
24:BA:1935:G:H4'	24:BA:1937:A:C2	2.51	0.46
24:BA:1936:A:O4'	24:BA:1940:U:O4	2.32	0.46
24:BA:1964:G:C5	24:BA:1967:C:H5	2.34	0.46
24:BA:196:A:N3	24:BA:2068:U:H5	2.12	0.46
24:BA:2072:G:C5	24:BA:2073:C:C5	3.04	0.46
24:BA:2304:G:P	30:BG:132:ASN:HD21	2.38	0.46
24:BA:2366:A:H3'	24:BA:2367:G:H8	1.80	0.46
24:BA:2425:A:OP1	24:BA:2427:C:O4'	2.34	0.46
24:BA:2459:A:H3'	24:BA:2460:U:C6	2.50	0.46
24:BA:2554:U:C5	24:BA:2556:C:C4	3.03	0.46
24:BA:2552:U:H3'	24:BA:2554:U:OP2	2.16	0.46
24:BA:2558:C:H2'	24:BA:2559:C:O5'	2.15	0.46
24:BA:2606:C:N3	24:BA:2607:G:N7	2.63	0.46
24:BA:2710:C:H2'	24:BA:2711:A:H5''	1.98	0.46
24:BA:2858:C:H5''	24:BA:2859:G:N7	2.30	0.46
24:BA:2813:A:N1	24:BA:2888:C:N3	2.63	0.46
24:BA:28:A:C2	24:BA:29:U:H4'	2.50	0.46
24:BA:297:C:C3'	24:BA:298:G:C8	2.98	0.46
24:BA:360:G:HO2'	24:BA:361:G:H5'	1.78	0.46
24:BA:403:U:C4'	24:BA:404:C:OP1	2.62	0.46
24:BA:442:G:O4'	29:BF:46:ARG:HD2	2.16	0.46
24:BA:464:U:C4	24:BA:465:G:O6	2.68	0.46
24:BA:570:G:H2'	24:BA:2030:A:C6	2.50	0.46
24:BA:588:U:H2'	24:BA:589:C:H6	1.81	0.46
24:BA:592:G:O2'	54:B7:2:PRO:CA	2.49	0.46
24:BA:609:A:H61	24:BA:619:G:H21	1.63	0.46
24:BA:620:G:C5'	24:BA:621:A:OP1	2.59	0.46
24:BA:624:C:H6	24:BA:624:C:C5'	2.29	0.46
24:BA:662:G:H5''	36:BO:19:VAL:CG1	2.40	0.46
24:BA:700:G:H4'	24:BA:1633:G:H4'	1.95	0.46
24:BA:739:G:O3'	24:BA:1784:A:C2	2.68	0.46
24:BA:775:G:C1'	24:BA:777:A:C2	2.98	0.46
24:BA:790:C:H6	24:BA:790:C:H3'	1.79	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:815:C:O2'	24:BA:816:C:C5'	2.62	0.46
25:BB:6:C:O2'	25:BB:7:G:O5'	2.26	0.46
27:BD:120:GLY:H	27:BD:131:LEU:CD1	2.29	0.46
27:BD:174:ILE:HD11	27:BD:184:LYS:HE3	1.93	0.46
27:BD:256:GLY:O	27:BD:257:LEU:CG	2.64	0.46
28:BE:113:PHE:HB3	28:BE:158:GLY:HA2	1.97	0.46
28:BE:108:SER:HG	28:BE:164:ARG:CA	2.29	0.46
28:BE:36:ARG:CB	28:BE:41:LYS:HB2	2.44	0.46
24:BA:2637:U:O5'	28:BE:81:ILE:HD11	2.15	0.46
28:BE:92:THR:O	28:BE:92:THR:CG2	2.63	0.46
29:BF:18:ARG:CG	29:BF:19:GLU:N	2.78	0.46
29:BF:35:GLU:HA	29:BF:38:ARG:CD	2.44	0.46
30:BG:118:ARG:HG2	30:BG:119:GLY:H	1.76	0.46
30:BG:13:GLU:O	30:BG:17:PRO:CD	2.63	0.46
30:BG:142:PRO:HG2	30:BG:143:GLU:HG2	1.98	0.46
30:BG:144:ILE:HG23	30:BG:145:THR:N	2.30	0.46
30:BG:49:ASP:H	30:BG:53:LEU:HD13	1.80	0.46
31:BH:97:ARG:CB	31:BH:104:GLU:HG3	2.38	0.46
32:BK:31:LEU:CD2	32:BK:36:ALA:HB3	2.45	0.46
33:BL:60:TYR:CG	33:BL:67:PHE:HE1	2.33	0.46
24:BA:1062:G:H21	33:BL:91:PRO:HG3	1.75	0.46
34:BM:109:LYS:CE	34:BM:111:PRO:HD2	2.46	0.46
34:BM:25:ARG:HH21	34:BM:26:LEU:HB2	1.80	0.46
35:BN:113:LYS:O	35:BN:113:LYS:NZ	2.48	0.46
35:BN:28:SER:O	35:BN:29:ASN:CB	2.64	0.46
35:BN:40:VAL:HG22	35:BN:41:ALA:N	2.30	0.46
35:BN:39:ILE:CB	35:BN:59:LYS:HZ1	2.27	0.46
24:BA:661:C:C5'	36:BO:15:ARG:HH11	2.26	0.46
36:BO:6:LEU:C	36:BO:7:ARG:CG	2.83	0.46
36:BO:74:GLU:HB2	36:BO:107:LYS:HZ3	1.81	0.46
36:BO:79:ARG:HE	36:BO:83:VAL:CG1	2.29	0.46
37:BP:11:LYS:HZ3	37:BP:73:PRO:CG	2.29	0.46
37:BP:16:ARG:O	37:BP:17:LEU:CD1	2.64	0.46
37:BP:87:LYS:O	37:BP:88:GLY:O	2.33	0.46
37:BP:90:VAL:CA	37:BP:91:GLU:OE2	2.64	0.46
38:BQ:103:ARG:HB2	38:BQ:108:GLY:HA2	1.97	0.46
38:BQ:87:TYR:O	38:BQ:89:ASP:OD1	2.33	0.46
39:BR:58:LEU:O	39:BR:65:VAL:CG1	2.60	0.46
40:BS:40:THR:O	40:BS:41:ARG:C	2.53	0.46
40:BS:33:LYS:HB3	40:BS:45:PHE:C	2.36	0.46
41:BT:52:ARG:O	41:BT:53:ARG:C	2.53	0.46
41:BT:55:ARG:C	41:BT:58:ARG:HB3	2.34	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BW:65:ARG:HA	44:BW:70:LEU:CG	2.46	0.46
45:BX:22:GLY:HA3	45:BX:73:ARG:CZ	2.38	0.46
46:BY:102:LEU:HD13	46:BY:137:ILE:C	2.35	0.46
32:BK:79:ILE:O	32:BK:144:VAL:CA	2.54	0.46
26:BC:23:ASP:CG	26:BC:186:ALA:HB2	2.36	0.46
26:BC:59:ARG:HH11	26:BC:59:ARG:HB2	1.81	0.46
3:AD:40:C:H3'	3:AD:41:C:C5'	2.45	0.46
39:BR:59:LYS:CE	39:BR:59:LYS:H	2.28	0.46
34:BM:6:PRO:CB	34:BM:41:ASP:HB3	2.45	0.46
24:BA:54:G:N2	24:BA:55:G:H1'	2.31	0.46
24:BA:436:C:O2	24:BA:436:C:H2'	2.15	0.46
2:A1:30:U:C4	2:A1:31:U:C4	3.04	0.46
1:AA:1084:G:O2'	1:AA:1085:U:OP1	2.32	0.46
1:AA:1188:A:H3'	1:AA:1189:C:H5	1.80	0.46
1:AA:1188:A:C2	1:AA:1189:C:C2	3.03	0.46
1:AA:1189:C:OP2	1:AA:1189:C:C6	2.68	0.46
1:AA:1308:U:C6	15:AP:99:ARG:NH1	2.77	0.46
1:AA:1313:U:O4	21:AV:4:SER:OG	2.23	0.46
1:AA:1443:G:C5'	1:AA:1446:A:H5'	2.39	0.46
1:AA:1533:C:H2'	1:AA:1534:A:H8	1.80	0.46
1:AA:209:U:H5''	1:AA:210:U:OP1	2.15	0.46
1:AA:295:C:C2	1:AA:296:U:C6	3.03	0.46
1:AA:332:G:O2'	1:AA:333:G:C5'	2.63	0.46
1:AA:517:G:C4	1:AA:531:U:O4'	2.68	0.46
1:AA:594:G:C5	1:AA:595:G:N2	2.80	0.46
1:AA:623:C:H2'	1:AA:624:C:H6	1.79	0.46
1:AA:629:G:N3	1:AA:630:G:C8	2.84	0.46
1:AA:696:A:C2'	1:AA:697:U:H5'	2.44	0.46
1:AA:711:G:C2'	1:AA:712:A:O5'	2.63	0.46
1:AA:728:A:C6	1:AA:729:A:C5	3.03	0.46
1:AA:89:U:O5'	1:AA:89:U:H6	1.99	0.46
1:AA:885:G:C2	1:AA:913:A:C2	3.03	0.46
1:AA:947:G:C4	1:AA:948:C:C6	3.04	0.46
1:AA:965:A:O2'	1:AA:966:G:P	2.74	0.46
1:AA:968:A:OP1	1:AA:968:A:O4'	2.33	0.46
3:AC:19:G:H1'	3:AC:57:G:H21	1.80	0.46
3:AC:70:G:N3	3:AC:71:G:C8	2.84	0.46
4:AE:57:PHE:CD1	4:AE:199:TYR:HE1	2.32	0.46
4:AE:19:HIS:C	4:AE:20:GLU:HG2	2.36	0.46
4:AE:23:ARG:HB2	4:AE:23:ARG:CZ	2.45	0.46
4:AE:82:ARG:HB3	4:AE:83:MET:HE2	1.96	0.46
5:AF:134:ILE:CD1	5:AF:134:ILE:N	2.79	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:132:ARG:O	5:AF:135:LYS:HB2	2.16	0.46
5:AF:31:HIS:HA	5:AF:34:LEU:HB3	1.97	0.46
5:AF:96:GLY:O	5:AF:97:LYS:C	2.53	0.46
6:AG:88:VAL:HG12	6:AG:91:SER:H	1.80	0.46
7:AH:121:LYS:HB3	7:AH:121:LYS:HE3	1.74	0.46
7:AH:151:LEU:HD11	10:AK:67:PRO:HG2	1.98	0.46
7:AH:36:ASP:OD1	7:AH:38:GLN:HB2	2.16	0.46
7:AH:61:TYR:CA	7:AH:64:ARG:HG2	2.46	0.46
7:AH:41:VAL:O	7:AH:67:VAL:O	2.33	0.46
7:AH:78:HIS:ND1	10:AK:107:LEU:CD1	2.64	0.46
8:AI:95:GLU:CD	8:AI:95:GLU:N	2.69	0.46
8:AI:96:PRO:O	8:AI:97:PHE:CB	2.60	0.46
9:AJ:29:LYS:HD2	9:AJ:102:ARG:HA	1.98	0.46
9:AJ:3:ARG:C	9:AJ:4:ARG:HG2	2.36	0.46
9:AJ:94:ARG:NH1	9:AJ:98:SER:OG	2.49	0.46
10:AK:104:ARG:CD	10:AK:107:LEU:HD11	2.46	0.46
10:AK:10:LEU:O	10:AK:83:ILE:HD13	2.14	0.46
11:AL:16:ARG:CG	11:AL:18:PHE:CE1	2.89	0.46
12:AM:9:ARG:NH1	12:AM:9:ARG:HB3	2.30	0.46
16:AQ:35:ARG:O	16:AQ:38:GLY:N	2.48	0.46
16:AQ:34:TYR:CZ	16:AQ:44:LEU:HD22	2.51	0.46
17:AR:18:PHE:O	17:AR:20:GLY:N	2.48	0.46
1:AA:667:G:H5'	17:AR:51:HIS:CD2	2.51	0.46
18:AS:4:ILE:HA	18:AS:20:VAL:O	2.16	0.46
18:AS:71:ARG:CZ	18:AS:71:ARG:HB2	2.46	0.46
19:AT:29:HIS:ND1	19:AT:32:TYR:N	2.63	0.46
19:AT:28:PRO:CB	19:AT:33:GLY:O	2.59	0.46
20:AU:25:THR:HG22	20:AU:42:ARG:NH2	2.31	0.46
20:AU:23:LYS:HD2	20:AU:57:GLY:O	2.15	0.46
20:AU:80:PRO:O	20:AU:81:PHE:CD1	2.69	0.46
21:AV:37:ARG:HD3	21:AV:37:ARG:HA	1.43	0.46
21:AV:51:VAL:HB	21:AV:75:ALA:HB2	1.97	0.46
24:BA:380:U:H4'	50:B3:16:CYS:HB3	1.97	0.46
24:BA:1364:G:OP1	50:B3:2:LYS:O	2.34	0.46
50:B3:57:GLU:N	50:B3:61:ARG:CZ	2.78	0.46
52:B5:19:ARG:CG	52:B5:19:ARG:NH1	2.58	0.46
54:B7:8:LYS:NZ	54:B7:11:LYS:HZ2	2.12	0.46
55:B8:10:ILE:HD12	55:B8:14:CYS:HB3	1.97	0.46
24:BA:2527:C:OP1	55:B8:30:PRO:HB3	2.16	0.46
24:BA:1036:G:H5'	31:BH:59:ARG:NH2	2.31	0.46
24:BA:1068:G:N1	24:BA:1073:A:C2	2.84	0.46
24:BA:1081:U:H5''	33:BL:122:ALA:CA	2.36	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1094:U:O2	24:BA:1097:U:H5	1.99	0.46
24:BA:1056:G:C2	24:BA:1102:C:C5	3.03	0.46
24:BA:1213:A:C2	24:BA:1237:A:H1'	2.50	0.46
24:BA:1238:G:N2	24:BA:1239:G:C4	2.83	0.46
24:BA:1241:A:C4	24:BA:1241:A:C3'	2.98	0.46
24:BA:1373:A:N7	24:BA:1374:G:C5	2.84	0.46
24:BA:1469:A:C8	24:BA:1469:A:H3'	2.50	0.46
24:BA:1515:C:C6	24:BA:1515:C:P	3.08	0.46
24:BA:1518:C:N3	24:BA:1519:G:H1'	2.30	0.46
24:BA:1641:A:N7	24:BA:1642:G:C5	2.84	0.46
24:BA:1707:G:N3	24:BA:1708:C:C6	2.84	0.46
24:BA:1727:U:H2'	24:BA:1728:G:OP1	2.15	0.46
24:BA:1731:G:N3	24:BA:1732:A:OP2	2.49	0.46
24:BA:1741:C:O3'	24:BA:1742:C:O4'	2.33	0.46
24:BA:47:C:C2	24:BA:179:G:C2	3.03	0.46
24:BA:179:G:C4	24:BA:180:G:C8	3.03	0.46
24:BA:1882:C:C2	24:BA:1883:G:H1'	2.49	0.46
24:BA:1890:A:C3'	24:BA:1891:G:H8	2.25	0.46
24:BA:215:G:C1'	24:BA:216:A:H4'	2.46	0.46
24:BA:215:G:C4'	24:BA:216:A:O5'	2.40	0.46
24:BA:215:G:O2'	24:BA:216:A:OP2	2.30	0.46
24:BA:221:A:N3	24:BA:233:A:H1'	2.30	0.46
24:BA:2249:U:C2'	24:BA:2250:G:OP1	2.63	0.46
24:BA:966:G:C2'	24:BA:2267:A:N6	2.78	0.46
24:BA:2268:A:H3'	24:BA:2269:A:C5'	2.46	0.46
24:BA:2259:G:H4'	24:BA:2427:C:H2'	1.97	0.46
24:BA:2464:C:N3	24:BA:2465:C:C5	2.84	0.46
24:BA:2503:A:O2'	24:BA:2504:U:P	2.73	0.46
24:BA:2559:C:H2'	24:BA:2560:C:H6	1.79	0.46
24:BA:2553:G:C8	24:BA:2583:G:H4'	2.45	0.46
24:BA:2645:G:O4'	24:BA:2645:G:OP2	2.33	0.46
24:BA:2734:A:N6	24:BA:2735:G:N2	2.64	0.46
24:BA:2745:C:N3	24:BA:2746:U:C5	2.83	0.46
24:BA:2768:C:C2'	24:BA:2769:C:H5'	2.45	0.46
24:BA:371:A:H5''	24:BA:423:A:C5	2.46	0.46
24:BA:375:C:O2	24:BA:375:C:C2'	2.62	0.46
24:BA:378:C:H2'	24:BA:379:G:H8	1.81	0.46
24:BA:387:U:H2'	24:BA:387:U:O2	2.14	0.46
24:BA:457:A:C2	24:BA:470:A:C5'	2.99	0.46
24:BA:496:G:O6	24:BA:497:A:C6	2.69	0.46
24:BA:563:G:N2	24:BA:578:A:C2	2.69	0.46
24:BA:598:G:O2'	36:BO:14:LYS:HE3	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:746:A:HO2'	24:BA:747:U:P	2.21	0.46
24:BA:783:A:C2'	24:BA:784:A:C5'	2.92	0.46
24:BA:819:A:N3	24:BA:943:U:O2	2.49	0.46
24:BA:831:G:H5'	36:BO:35:HIS:HB3	1.97	0.46
24:BA:923:C:O4'	47:BZ:26:TYR:CB	2.62	0.46
24:BA:974:G:C8	24:BA:974(A):C:O4'	2.69	0.46
25:BB:82:G:C4	25:BB:83:G:N7	2.84	0.46
27:BD:108:PRO:O	27:BD:109:ASP:C	2.54	0.46
27:BD:177:LEU:HD23	27:BD:177:LEU:N	2.22	0.46
27:BD:183:ARG:NH2	27:BD:268:ARG:HH11	2.13	0.46
27:BD:109:ASP:N	27:BD:196:VAL:O	2.49	0.46
24:BA:764:A:N3	27:BD:214:TRP:HD1	2.12	0.46
28:BE:199:ARG:O	28:BE:200:GLU:OE1	2.33	0.46
28:BE:34:VAL:CG1	28:BE:36:ARG:NH2	2.79	0.46
28:BE:38:THR:C	28:BE:40:GLU:N	2.68	0.46
28:BE:45:THR:HG1	28:BE:80:GLU:C	2.08	0.46
28:BE:50:GLY:CA	28:BE:76:ARG:NE	2.79	0.46
29:BF:157:VAL:O	29:BF:158:THR:CB	2.63	0.46
29:BF:169:ASN:HD22	29:BF:173:VAL:HG12	1.80	0.46
30:BG:116:ASP:CB	30:BG:118:ARG:NH2	2.76	0.46
30:BG:167:GLU:OE1	30:BG:167:GLU:N	2.44	0.46
30:BG:56:ALA:HA	30:BG:59:GLU:CD	2.33	0.46
31:BH:103:LEU:H	31:BH:115:VAL:H	1.62	0.46
31:BH:97:ARG:CB	31:BH:97:ARG:NH2	2.79	0.46
33:BL:23:VAL:O	33:BL:34:ILE:HG12	2.15	0.46
33:BL:9:LYS:HG2	33:BL:56:GLU:CD	2.36	0.46
34:BM:103:VAL:HG23	34:BM:117:PHE:HE2	1.80	0.46
34:BM:115:ARG:HA	34:BM:118:LYS:HE3	1.96	0.46
34:BM:12:ARG:HD3	34:BM:50:ASP:OD1	2.15	0.46
35:BN:107:ARG:O	35:BN:108:GLU:C	2.54	0.46
35:BN:109:LYS:O	35:BN:110:GLY:C	2.54	0.46
35:BN:80:ASP:OD2	35:BN:82:ASN:ND2	2.48	0.46
24:BA:637:A:OP2	36:BO:131:SER:HB3	2.16	0.46
36:BO:131:SER:O	36:BO:135:LEU:CD1	2.64	0.46
36:BO:122:PRO:CA	36:BO:134:ALA:HA	2.45	0.46
36:BO:138:LEU:HD22	36:BO:138:LEU:C	2.35	0.46
36:BO:27:HIS:HB3	36:BO:28:GLY:H	1.63	0.46
37:BP:56:ARG:NH1	37:BP:57:HIS:HA	2.30	0.46
24:BA:872:A:O2'	37:BP:66:ILE:CB	2.64	0.46
37:BP:34:LEU:CD1	37:BP:67:ARG:NH2	2.72	0.46
24:BA:2494:G:O2'	37:BP:81:VAL:O	2.24	0.46
37:BP:97:VAL:CA	37:BP:98:LYS:HE2	2.45	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BQ:27:SER:O	38:BQ:30:THR:HB	2.15	0.46
38:BQ:52:ILE:HD13	38:BQ:52:ILE:C	2.35	0.46
38:BQ:55:ALA:HB1	38:BQ:79:LEU:HD21	1.94	0.46
39:BR:35:ILE:HG13	39:BR:36:TYR:N	2.31	0.46
40:BS:38:ASN:O	40:BS:39:ARG:O	2.33	0.46
41:BT:31:SER:OG	41:BT:35:ALA:CA	2.64	0.46
41:BT:66:ASN:HA	41:BT:76:TYR:CE1	2.51	0.46
43:BV:18:ARG:HH21	43:BV:18:ARG:CG	2.28	0.46
24:BA:518:G:C4'	43:BV:18:ARG:NH1	2.76	0.46
45:BX:2:ARG:HE	45:BX:4:LYS:H	1.64	0.46
46:BY:10:ARG:NH2	46:BY:35:ARG:HG3	2.30	0.46
46:BY:150:LEU:C	46:BY:151:HIS:CG	2.89	0.46
47:BZ:74:ARG:HD2	47:BZ:75:LEU:HD12	1.97	0.46
26:BC:160:ARG:O	26:BC:161:ILE:HG13	2.14	0.46
26:BC:190:ARG:O	26:BC:193:ILE:HB	2.14	0.46
3:AD:63:G:H5'	26:BC:53:ARG:CZ	2.46	0.46
26:BC:6:ARG:C	26:BC:8:ARG:H	2.17	0.46
24:BA:1042:G:N2	24:BA:1114:G:C4	2.78	0.46
24:BA:182:A:C2	24:BA:183:C:N3	2.83	0.46
24:BA:1767:C:C4	24:BA:1768:U:C4	3.04	0.46
1:AA:614:A:H2'	1:AA:615:C:C6	2.50	0.46
2:A1:13:U:H3'	2:A1:14:U:C6	2.51	0.46
1:AA:1055:A:HO2'	1:AA:1056:U:P	2.37	0.46
1:AA:120:A:C8	1:AA:122:G:C5	3.04	0.46
1:AA:1289:A:C2	1:AA:1372:U:H4'	2.51	0.46
1:AA:1363:A:H5''	1:AA:1364:U:C6	2.51	0.46
1:AA:1405:G:N3	1:AA:1406:U:C5	2.84	0.46
1:AA:1464:G:HO2'	1:AA:1465:C:H6	1.63	0.46
1:AA:1517:G:C2	1:AA:1518:A:C4	3.03	0.46
1:AA:186(B):C:C2	1:AA:186(C):G:C8	3.03	0.46
1:AA:227:G:C6	1:AA:228:A:C6	3.03	0.46
1:AA:323:U:O2	1:AA:329:A:N6	2.49	0.46
1:AA:452:A:C6	1:AA:453:A:C6	3.03	0.46
1:AA:495:A:H4'	1:AA:496:A:OP1	2.15	0.46
1:AA:518:C:C5	1:AA:530:G:N7	2.83	0.46
1:AA:625:G:H2'	1:AA:626:U:C6	2.50	0.46
1:AA:644:G:C5	1:AA:645:C:C5	3.04	0.46
1:AA:745:C:N4	1:AA:746:A:H62	2.13	0.46
1:AA:811:C:C6	1:AA:811:C:C3'	2.98	0.46
1:AA:854:G:H3'	1:AA:871:U:C4	2.48	0.46
1:AA:867:G:N3	1:AA:868:C:C5	2.83	0.46
1:AA:880:C:P	14:AO:9:GLN:HE21	2.38	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:938:A:C6	1:AA:939:G:C5	3.03	0.46
1:AA:958:A:H2'	1:AA:959:A:O4'	2.16	0.46
3:AB:9:A:N3	3:AB:46:G:C2	2.84	0.46
3:AB:9:A:O2'	3:AB:45:U:O2'	2.25	0.46
3:AC:47:U:O4	3:AC:49:C:C4'	2.60	0.46
3:AC:66:U:C3'	3:AC:67:C:C6	2.96	0.46
4:AE:73:THR:HG22	4:AE:94:ASN:C	2.35	0.46
5:AF:59:ARG:NE	5:AF:64:VAL:CA	2.64	0.46
6:AG:130:GLY:HA3	6:AG:131:ARG:NH1	2.31	0.46
6:AG:145:GLU:N	6:AG:184:LYS:HE2	2.30	0.46
6:AG:195:ALA:O	6:AG:196:LEU:O	2.33	0.46
8:AI:12:PRO:O	8:AI:14:LEU:N	2.48	0.46
8:AI:14:LEU:HD22	8:AI:18:GLN:CD	2.35	0.46
8:AI:19:LEU:HD11	8:AI:23:LYS:NZ	2.31	0.46
8:AI:65:VAL:O	8:AI:67:MET:CE	2.63	0.46
8:AI:11:ASN:HB2	8:AI:84:ASN:HB3	1.97	0.46
9:AJ:111:ARG:HD3	9:AJ:122:HIS:CB	2.46	0.46
9:AJ:122:HIS:N	9:AJ:125:MET:HE3	2.30	0.46
1:AA:933:G:OP2	9:AJ:3:ARG:HG2	2.15	0.46
10:AK:109:ILE:O	10:AK:109:ILE:HG13	2.14	0.46
10:AK:127:LEU:HD13	10:AK:127:LEU:C	2.35	0.46
10:AK:15:ASN:HD22	10:AK:15:ASN:N	2.13	0.46
10:AK:35:ILE:C	10:AK:37:ARG:N	2.68	0.46
10:AK:37:ARG:CD	10:AK:41:ARG:HG3	2.19	0.46
10:AK:6:ILE:CD1	10:AK:85:ARG:CZ	2.93	0.46
10:AK:70:GLN:HE21	10:AK:71:GLY:H	1.47	0.46
11:AL:50:LEU:HD21	11:AL:55:ALA:O	2.15	0.46
1:AA:1058:G:N2	12:AM:53:PRO:HG3	2.31	0.46
9:AJ:153:HIS:CE1	13:AN:58:PRO:HD2	2.42	0.46
14:AO:34:ARG:HD3	14:AO:105:TYR:CZ	2.51	0.46
14:AO:92:ASP:CA	14:AO:93:LEU:HD23	2.45	0.46
15:AP:73:GLU:O	15:AP:75:ALA:N	2.49	0.46
5:AF:40:ARG:NE	16:AQ:52:GLN:NE2	2.64	0.46
18:AS:26:ARG:CD	18:AS:31:LYS:HZ3	2.28	0.46
18:AS:53:VAL:HA	18:AS:79:VAL:CG2	2.45	0.46
18:AS:74:LEU:CD2	18:AS:79:VAL:HG21	2.43	0.46
1:AA:237:C:C5'	19:AT:25:ARG:CZ	2.86	0.46
19:AT:27:PHE:C	19:AT:27:PHE:CD2	2.87	0.46
19:AT:88:TYR:CD2	19:AT:92:ARG:HD2	2.51	0.46
21:AV:24:ALA:O	21:AV:26:GLY:N	2.49	0.46
21:AV:58:VAL:HG23	21:AV:60:VAL:CG2	2.44	0.46
22:AW:50:GLU:CB	22:AW:99:LEU:HD12	2.46	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:B4:37:LYS:HB2	51:B4:38:ALA:H	1.41	0.46
51:B4:8:LYS:C	51:B4:9:LYS:HG3	2.36	0.46
24:BA:2287:A:C2	52:B5:37:ARG:NH2	2.84	0.46
52:B5:51:GLU:CD	52:B5:52:VAL:N	2.68	0.46
54:B7:31:HIS:O	54:B7:32:LEU:HG	2.16	0.46
24:BA:1119:C:H2'	24:BA:1119:C:O2	2.13	0.46
24:BA:1213:A:OP2	24:BA:1235:G:N2	2.48	0.46
24:BA:1313:U:O2	24:BA:1314:C:C5	2.69	0.46
24:BA:1405:U:C2	24:BA:1406:U:C5	3.04	0.46
24:BA:1420:U:O2'	24:BA:1421:G:P	2.73	0.46
24:BA:1444(A):A:H5'	24:BA:1445:C:C6	2.51	0.46
24:BA:1449:A:H4'	24:BA:1542:G:H21	1.80	0.46
24:BA:1464:C:O2'	24:BA:1465:G:C5'	2.64	0.46
24:BA:1570:A:C6	24:BA:1571:A:N7	2.83	0.46
24:BA:1655:A:H4'	28:BE:114:ALA:HA	1.96	0.46
24:BA:1712:C:H3'	24:BA:1716:U:C5	2.50	0.46
24:BA:1680:U:O2	24:BA:1764:G:O5'	2.33	0.46
24:BA:1785:A:C8	24:BA:1785:A:OP2	2.63	0.46
24:BA:1363:C:O2'	24:BA:1809:A:N7	2.38	0.46
24:BA:1889:A:C2	24:BA:1890:A:C5	3.03	0.46
24:BA:1891:G:H3'	24:BA:1892:C:H6	1.79	0.46
24:BA:1992:G:N2	24:BA:1995:U:C5	2.83	0.46
24:BA:218:A:H2'	24:BA:219:G:O4'	2.16	0.46
24:BA:2230:G:C2	24:BA:2231:C:C2	3.03	0.46
24:BA:962:G:H21	24:BA:2250:G:N2	2.12	0.46
24:BA:2343:C:H4'	24:BA:2373:G:O3'	2.15	0.46
24:BA:2349:G:C3'	24:BA:2350:C:C5'	2.90	0.46
24:BA:243:U:OP2	54:B7:7:HIS:NE2	2.48	0.46
24:BA:2462:U:O4	24:BA:2463:C:N4	2.49	0.46
24:BA:2478:A:C5	24:BA:2479:G:C8	3.04	0.46
24:BA:2459:A:C2	24:BA:2492:U:C4	3.02	0.46
24:BA:2521:C:C2	24:BA:2545:G:N2	2.84	0.46
24:BA:2553:G:H2'	24:BA:2553:G:N3	2.31	0.46
24:BA:2588:G:O6	24:BA:2589:A:C6	2.68	0.46
24:BA:2689:U:O2	24:BA:2713:A:N7	2.49	0.46
24:BA:2690:C:O2'	24:BA:2691:C:C5'	2.63	0.46
24:BA:2703:C:C5	24:BA:2704:C:N4	2.84	0.46
24:BA:2748:A:N1	24:BA:2756:U:O2	2.49	0.46
24:BA:2834:G:C3'	24:BA:2834:G:C8	2.99	0.46
24:BA:284:U:P	24:BA:284:U:H3'	2.56	0.46
24:BA:2884:U:O2'	24:BA:2885:C:H5'	2.15	0.46
24:BA:2893:G:P	24:BA:2893:G:O4'	2.73	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:295:G:H1'	24:BA:345:A:C2	2.50	0.46
24:BA:307:G:H2'	24:BA:309:G:H8	1.79	0.46
24:BA:341:G:C2'	24:BA:342:G:O4'	2.63	0.46
24:BA:465:G:C6	24:BA:466:A:C6	3.04	0.46
24:BA:467:G:P	53:B6:33:ARG:NH1	2.88	0.46
24:BA:470:A:O2'	24:BA:471:A:P	2.73	0.46
24:BA:479:A:N3	24:BA:480:A:C5	2.84	0.46
24:BA:578:A:C3'	24:BA:579:G:H5''	2.46	0.46
24:BA:580:C:N4	24:BA:581:C:N4	2.63	0.46
24:BA:612:G:H2'	24:BA:615:G:C4	2.51	0.46
24:BA:653:A:C3'	24:BA:654:A:H4'	2.45	0.46
24:BA:209:C:C5'	24:BA:681:G:H4'	2.41	0.46
24:BA:757:U:C2'	24:BA:758:C:O5'	2.64	0.46
24:BA:774:A:HO2'	24:BA:775:G:H8	1.53	0.46
24:BA:773:U:O2'	24:BA:774:A:OP1	2.30	0.46
24:BA:799:G:H8	24:BA:799:G:OP2	1.97	0.46
24:BA:800:A:C5	24:BA:802:A:O4'	2.69	0.46
24:BA:823:G:H3'	24:BA:824:A:C8	2.43	0.46
24:BA:833:U:H2'	24:BA:834:C:H6	1.80	0.46
24:BA:87:C:H5''	24:BA:88:G:O5'	2.15	0.46
24:BA:889:C:H2'	24:BA:890:A:C1'	2.45	0.46
24:BA:933:A:N3	24:BA:934:G:C8	2.84	0.46
24:BA:945:A:H2'	24:BA:946:G:H5''	1.98	0.46
24:BA:95:G:OP1	48:B1:39:LEU:HD13	2.14	0.46
24:BA:974:G:C3'	24:BA:974(A):C:C5'	2.85	0.46
25:BB:104:A:C3'	25:BB:105:G:O4'	2.63	0.46
25:BB:42:C:C4	30:BG:93:THR:HB	2.50	0.46
25:BB:46:A:O2'	25:BB:47:C:H5'	2.16	0.46
25:BB:48:A:OP1	39:BR:92:TYR:CB	2.63	0.46
25:BB:56:G:O2'	25:BB:57:A:H5'	2.15	0.46
25:BB:83:G:H21	25:BB:84:C:C1'	2.29	0.46
25:BB:99:A:H2'	25:BB:100:G:O5'	2.16	0.46
25:BB:99:A:HO2'	25:BB:100:G:H5'	1.79	0.46
25:BB:8:U:O2'	25:BB:9:G:O4'	2.27	0.46
27:BD:247:ALA:O	27:BD:250:TRP:HB2	2.16	0.46
27:BD:7:LYS:HB2	27:BD:27:THR:HA	1.97	0.46
24:BA:1813:G:O3'	27:BD:46:GLN:HG2	2.16	0.46
27:BD:84:TYR:HA	27:BD:92:ILE:HG23	1.96	0.46
28:BE:108:SER:O	28:BE:109:LYS:C	2.53	0.46
28:BE:32:PRO:HG3	28:BE:88:GLY:HA2	1.97	0.46
28:BE:51:PHE:HE1	28:BE:75:VAL:H	1.64	0.46
28:BE:54:GLN:OE1	28:BE:56:PRO:HD2	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:135:LYS:HE3	29:BF:136:THR:OG1	2.16	0.46
29:BF:57:VAL:O	29:BF:60:SER:OG	2.29	0.46
30:BG:124:SER:OG	30:BG:132:ASN:O	2.32	0.46
30:BG:107:LEU:HG	30:BG:177:GLY:O	2.16	0.46
30:BG:47:LYS:CB	30:BG:53:LEU:HD11	2.35	0.46
30:BG:57:ALA:CA	30:BG:68:PRO:CD	2.83	0.46
31:BH:132:ARG:H	31:BH:132:ARG:HD3	1.78	0.46
31:BH:42:ARG:O	31:BH:43:VAL:HG23	2.16	0.46
31:BH:9:ILE:CD1	31:BH:69:ARG:HH22	2.28	0.46
31:BH:93:GLY:O	31:BH:107:VAL:CG2	2.63	0.46
33:BL:111:LYS:C	33:BL:113:PRO:CD	2.82	0.46
34:BM:127:ASP:O	34:BM:130:HIS:HB2	2.14	0.46
34:BM:17:ASP:O	34:BM:18:ALA:CB	2.64	0.46
34:BM:58:ASP:OD1	34:BM:59:LYS:HE3	2.15	0.46
34:BM:67:LEU:CA	34:BM:70:LYS:HZ1	2.29	0.46
35:BN:106:LEU:CG	35:BN:107:ARG:N	2.78	0.46
36:BO:54:GLY:O	54:B7:12:LYS:CE	2.64	0.46
36:BO:85:LEU:O	36:BO:86:LYS:HE2	2.16	0.46
37:BP:133:ARG:C	37:BP:133:ARG:HD2	2.36	0.46
37:BP:49:ALA:O	37:BP:52:VAL:HB	2.16	0.46
37:BP:59:ARG:C	37:BP:60:ARG:CD	2.84	0.46
38:BQ:72:ASP:OD2	38:BQ:74:LYS:NZ	2.38	0.46
39:BR:49:VAL:HG22	39:BR:50:SER:N	2.31	0.46
39:BR:70:GLY:CA	39:BR:73:LEU:HD22	2.42	0.46
40:BS:28:VAL:HG23	40:BS:94:ALA:N	2.30	0.46
42:BU:93:GLU:O	42:BU:95:LEU:HD23	2.16	0.46
43:BV:16:LYS:O	43:BV:19:LEU:HB2	2.15	0.46
43:BV:28:SER:N	43:BV:31:GLU:OE2	2.30	0.46
43:BV:34:ASN:HA	43:BV:37:ARG:CG	2.45	0.46
43:BV:25:ARG:O	43:BV:71:VAL:CG1	2.64	0.46
43:BV:94:ASP:N	43:BV:94:ASP:OD2	2.49	0.46
44:BW:29:TRP:CH2	44:BW:78:LYS:HE3	2.50	0.46
44:BW:89:ILE:O	44:BW:93:GLU:HG2	2.15	0.46
45:BX:21:LYS:HD2	45:BX:23:ARG:NH2	2.30	0.46
45:BX:27:VAL:O	45:BX:35:TYR:HA	2.16	0.46
46:BY:47:VAL:O	46:BY:50:GLN:HB2	2.15	0.46
46:BY:61:LEU:HD23	46:BY:66:SER:HA	1.98	0.46
47:BZ:21:LEU:HA	47:BZ:39:ARG:HB2	1.96	0.46
32:BK:88:ILE:N	32:BK:88:ILE:HD12	2.31	0.46
24:BA:2125:G:OP1	26:BC:40:THR:CG2	2.63	0.46
26:BC:123:VAL:CG1	26:BC:138:PRO:HG2	2.41	0.46
24:BA:2186:G:N2	24:BA:2187:G:C5	2.84	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:273(E):U:N3	24:BA:273(F):C:H1'	2.30	0.46
1:AA:1029:G:C4	1:AA:1032(A):G:C6	3.03	0.46
1:AA:1176:A:N6	1:AA:1177:G:N1	2.63	0.46
1:AA:1183:A:H2'	1:AA:1184:G:OP1	2.15	0.46
1:AA:1276:G:H1'	1:AA:1282:C:O2'	2.15	0.46
1:AA:1506:U:C5'	1:AA:1507:A:OP2	2.59	0.46
1:AA:186(C):G:C6	1:AA:191(E):G:C6	3.03	0.46
1:AA:217:C:N4	1:AA:218:C:N4	2.64	0.46
1:AA:267:C:C2	1:AA:268:C:C5	3.04	0.46
1:AA:298:A:H3'	1:AA:299:G:H8	1.80	0.46
1:AA:322:C:C2'	1:AA:323:U:H5'	2.46	0.46
1:AA:395:C:C2	1:AA:396:G:N7	2.83	0.46
1:AA:474:G:OP2	1:AA:474:G:H8	1.97	0.46
1:AA:520:A:C8	1:AA:521:G:H5''	2.48	0.46
1:AA:525:C:H4'	1:AA:524:G:H21	1.80	0.46
1:AA:564:C:H2'	1:AA:565:U:O4'	2.16	0.46
1:AA:569:C:C1'	1:AA:574:A:C2	2.99	0.46
1:AA:589:C:N4	1:AA:590:C:H41	2.14	0.46
1:AA:670:G:C6	1:AA:671:G:C8	3.03	0.46
1:AA:717:C:O2'	1:AA:718:G:OP2	2.33	0.46
1:AA:588:G:H1'	1:AA:753:A:C6	2.49	0.46
1:AA:779:C:H2'	1:AA:780:A:O4'	2.15	0.46
1:AA:812:C:C4'	1:AA:813:U:H6	2.28	0.46
1:AA:817:C:C6	1:AA:819:A:C4'	2.98	0.46
1:AA:946:A:C3'	1:AA:947:G:H8	2.29	0.46
1:AA:956:U:O2	1:AA:960:U:O4	2.34	0.46
3:AB:52:G:H2'	3:AB:53:G:N9	2.31	0.46
3:AC:42:C:H2'	3:AC:43:C:O4'	2.15	0.46
4:AE:115:LEU:HD23	4:AE:149:LEU:HD13	1.94	0.46
4:AE:46:LYS:NZ	4:AE:49:GLU:HG2	2.31	0.46
4:AE:56:ARG:O	4:AE:57:PHE:C	2.53	0.46
5:AF:50:ALA:HB1	5:AF:72:LYS:HB2	1.96	0.46
6:AG:98:GLU:HG2	6:AG:173:TRP:HE1	1.80	0.46
6:AG:195:ALA:C	6:AG:196:LEU:HG	2.35	0.46
6:AG:3:ARG:NH1	6:AG:118:ARG:CZ	2.78	0.46
9:AJ:149:ARG:O	9:AJ:151:TYR:N	2.49	0.46
9:AJ:155:ARG:C	9:AJ:156:TRP:HE3	2.19	0.46
9:AJ:42:ILE:HD13	9:AJ:116:ALA:HB1	1.98	0.46
9:AJ:50:ILE:HD13	9:AJ:58:PRO:CB	2.46	0.46
10:AK:35:ILE:O	10:AK:36:LEU:C	2.52	0.46
10:AK:51:VAL:HG21	10:AK:60:ARG:HE	1.81	0.46
10:AK:79:VAL:HG12	10:AK:80:ILE:N	2.31	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AL:5:TYR:HD2	11:AL:6:GLY:H	1.62	0.46
12:AM:60:ARG:CB	12:AM:60:ARG:NH1	2.79	0.46
13:AN:23:ALA:HB1	13:AN:88:GLY:CA	2.45	0.46
15:AP:96:LEU:O	15:AP:97:PRO:C	2.52	0.46
5:AF:18:TRP:HZ2	16:AQ:57:ARG:HB2	1.80	0.46
19:AT:56:VAL:C	19:AT:57:VAL:HG12	2.36	0.46
19:AT:84:LEU:O	19:AT:85:VAL:C	2.54	0.46
19:AT:87:LYS:HA	19:AT:87:LYS:HD2	1.54	0.46
20:AU:33:ASP:O	20:AU:69:THR:HG23	2.15	0.46
48:B1:45:ILE:CD1	48:B1:46:ARG:N	2.78	0.46
50:B3:10:VAL:O	50:B3:10:VAL:CG1	2.63	0.46
50:B3:56:VAL:O	50:B3:57:GLU:HG2	2.16	0.46
24:BA:2287:A:H2	52:B5:37:ARG:HH22	1.62	0.46
52:B5:9:LEU:C	52:B5:10:LEU:HD23	2.35	0.46
54:B7:30:ARG:HG2	54:B7:31:HIS:N	2.24	0.46
36:BO:49:ARG:HD3	54:B7:52:LYS:HE3	1.97	0.46
24:BA:1014:U:C2'	24:BA:1015:G:C5'	2.92	0.46
24:BA:1071:G:C3'	24:BA:1072:C:H5'	2.46	0.46
24:BA:107:C:H2'	24:BA:108:U:H6	1.80	0.46
24:BA:120:U:H2'	24:BA:121:G:OP2	2.14	0.46
24:BA:1213:A:H3'	24:BA:1214:A:H8	1.81	0.46
24:BA:1216:G:N2	24:BA:1234:U:H1'	2.31	0.46
24:BA:1350:C:H2'	24:BA:1351:C:O5'	2.15	0.46
24:BA:1360:A:H2'	24:BA:1361:G:H5'	1.98	0.46
24:BA:1438:U:OP2	24:BA:1438:U:H6	1.98	0.46
24:BA:1491:G:C4	24:BA:1492:G:O2'	2.61	0.46
24:BA:14:A:H2	24:BA:2625:G:HO2'	1.63	0.46
24:BA:1608:A:C2	24:BA:1611:C:C5	3.04	0.46
24:BA:1620:G:O2'	24:BA:1621:U:C5'	2.63	0.46
24:BA:1631:A:C2'	24:BA:1632:A:O5'	2.64	0.46
24:BA:1638:C:H5''	24:BA:2710:C:O2'	2.16	0.46
24:BA:1650:G:O2'	24:BA:1651:G:C5'	2.63	0.46
24:BA:1669:A:C2'	24:BA:1669:A:N3	2.77	0.46
24:BA:1672:C:C2'	24:BA:1673:U:OP1	2.64	0.46
24:BA:1683:C:C6	24:BA:1683:C:O5'	2.68	0.46
24:BA:1689:A:C5	24:BA:1700:A:C6	3.04	0.46
24:BA:1697:G:H8	24:BA:1698:A:H5''	1.75	0.46
24:BA:1364:G:P	24:BA:1809:A:N6	2.89	0.46
24:BA:1829:A:C2	24:BA:1830:C:O4'	2.68	0.46
24:BA:188:G:H2'	24:BA:189:G:C8	2.49	0.46
24:BA:1847:A:N6	24:BA:1890:A:OP2	2.48	0.46
24:BA:188:G:C8	24:BA:189:G:C8	3.04	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1929:G:H5''	24:BA:1930:G:OP1	2.16	0.46
24:BA:1931:U:C5	24:BA:1969:A:N6	2.82	0.46
24:BA:1268:A:OP2	24:BA:2006:C:OP2	2.33	0.46
24:BA:2009:G:N1	24:BA:2010:G:N7	2.64	0.46
24:BA:2010:G:C5	24:BA:2011:U:C6	3.04	0.46
24:BA:2032:G:O2'	28:BE:145:LYS:HD2	2.16	0.46
24:BA:2046:G:P	51:B4:18:ALA:HB1	2.56	0.46
24:BA:2094:G:C6	24:BA:2196:C:C4	3.04	0.46
24:BA:2285:C:C3'	24:BA:2285:C:C6	2.99	0.46
24:BA:2286:A:C8	24:BA:2286:A:C3'	2.91	0.46
24:BA:2323:G:C4	24:BA:2324:C:C5	3.03	0.46
24:BA:2346:A:H1'	24:BA:2383:G:N7	2.26	0.46
24:BA:2345:G:N2	24:BA:2381:C:H2'	2.30	0.46
24:BA:2259:G:C4'	24:BA:2427:C:H2'	2.46	0.46
24:BA:2433:A:N3	24:BA:2433:A:C2'	2.76	0.46
24:BA:251:A:HO2'	24:BA:252:G:P	2.38	0.46
24:BA:270(C):C:C2'	24:BA:270(D):C:H6	2.02	0.46
24:BA:2734:A:N6	24:BA:2735:G:C2	2.83	0.46
24:BA:2766:G:N3	24:BA:2767:C:C6	2.84	0.46
24:BA:2846:G:H2'	24:BA:2846:G:N3	2.31	0.46
24:BA:2884:U:H2'	24:BA:2885:C:C5'	2.46	0.46
24:BA:304:G:H2'	24:BA:305:U:O4'	2.16	0.46
24:BA:311:A:H62	24:BA:329:G:C5'	2.28	0.46
24:BA:319:C:C4	24:BA:320:A:C6	3.04	0.46
24:BA:333:G:C2	24:BA:334:C:C6	3.04	0.46
24:BA:345:A:OP1	24:BA:345:A:H4'	2.14	0.46
24:BA:443:A:H61	29:BF:41:LEU:HD12	1.76	0.46
24:BA:449:A:O2'	24:BA:450:G:C5'	2.62	0.46
24:BA:483:A:H1'	45:BX:45:VAL:O	2.15	0.46
24:BA:493:G:O2'	43:BV:7:ALA:HB1	2.15	0.46
24:BA:582:G:C6	24:BA:583:G:O6	2.69	0.46
24:BA:621:A:C8	24:BA:622:G:C5'	2.99	0.46
24:BA:657:U:C2	24:BA:658:C:C5	3.04	0.46
24:BA:658:C:H2'	24:BA:659:C:C6	2.51	0.46
24:BA:704:G:C2'	24:BA:704:G:N3	2.78	0.46
24:BA:729:G:C6	24:BA:730:C:C2	3.03	0.46
24:BA:837:C:O5'	24:BA:837:C:H6	1.99	0.46
24:BA:848:G:H8	24:BA:848:G:H5''	1.80	0.46
24:BA:869:G:C3'	24:BA:870:A:H5''	2.43	0.46
24:BA:950:G:C5	24:BA:951:C:C5	3.04	0.46
25:BB:81:G:O6	25:BB:96:G:C6	2.68	0.46
27:BD:131:LEU:HA	27:BD:131:LEU:HD12	1.68	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:177:LEU:CD2	27:BD:181:GLU:O	2.60	0.46
27:BD:143:HIS:NE2	27:BD:192:THR:HG22	2.30	0.46
27:BD:95:LEU:CD2	27:BD:96:HIS:N	2.70	0.46
28:BE:66:HIS:CE1	28:BE:70:ALA:HA	2.50	0.46
29:BF:37:VAL:O	29:BF:41:LEU:CG	2.64	0.46
15:AP:3:ARG:NH2	30:BG:139:LEU:O	2.49	0.46
30:BG:151:ALA:HB1	30:BG:152:LEU:HG	1.97	0.46
30:BG:165:THR:HB	30:BG:168:GLU:OE2	2.15	0.46
31:BH:93:GLY:O	31:BH:107:VAL:HB	2.15	0.46
31:BH:85:LYS:O	31:BH:133:VAL:O	2.33	0.46
35:BN:72:PRO:HG3	35:BN:107:ARG:HH22	1.81	0.46
35:BN:78:ARG:CZ	35:BN:78:ARG:N	2.78	0.46
36:BO:23:PRO:CB	36:BO:28:GLY:HA2	2.25	0.46
36:BO:71:VAL:N	36:BO:72:PRO:HD3	2.31	0.46
37:BP:54:MET:HB3	37:BP:58:PHE:CE2	2.47	0.46
37:BP:54:MET:SD	37:BP:121:ALA:CB	3.02	0.46
38:BQ:118:GLU:OE2	38:BQ:118:GLU:HA	2.15	0.46
38:BQ:52:ILE:O	38:BQ:56:LYS:CG	2.63	0.46
38:BQ:75:LEU:HD23	38:BQ:78:LYS:HB3	1.98	0.46
25:BB:7:G:C5'	39:BR:29:PHE:CE2	2.99	0.46
40:BS:108:ARG:O	40:BS:110:ILE:HG13	2.16	0.46
40:BS:53:ARG:NH2	40:BS:101:PHE:H	2.14	0.46
40:BS:97:ALA:C	40:BS:99:LEU:H	2.19	0.46
41:BT:55:ARG:H	41:BT:55:ARG:CD	2.16	0.46
41:BT:70:ARG:C	41:BT:72:HIS:N	2.67	0.46
41:BT:80:ILE:HA	41:BT:83:LEU:CD1	2.45	0.46
41:BT:89:GLU:O	41:BT:90:VAL:HG22	2.16	0.46
43:BV:16:LYS:H	43:BV:16:LYS:CE	2.28	0.46
24:BA:297:C:C5'	45:BX:83:THR:CG2	2.93	0.46
46:BY:130:PRO:O	46:BY:132:ASN:N	2.49	0.46
46:BY:153:SER:H	46:BY:168:GLU:HB2	1.79	0.46
46:BY:128:VAL:CG2	46:BY:164:ALA:HB2	2.45	0.46
46:BY:70:LEU:C	46:BY:70:LEU:CD1	2.84	0.46
37:BP:136:ALA:CB	46:BY:76:LEU:HD13	2.46	0.46
47:BZ:72:ARG:O	47:BZ:73:GLY:O	2.34	0.46
3:AD:21:A:C6	3:AD:46:G:N2	2.79	0.46
24:BA:2134:A:C2	24:BA:2134:A:OP1	2.68	0.46
24:BA:2157:G:C2	24:BA:2157:G:OP2	2.69	0.46
26:BC:26:ALA:HB1	26:BC:185:LEU:HD12	1.97	0.46
26:BC:87:GLU:HG3	26:BC:94:VAL:HG11	1.97	0.46
24:BA:1417:C:C2'	24:BA:1418:G:O5'	2.63	0.46
1:AA:1171:G:O2'	1:AA:1172:C:H6	1.99	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:146:ALA:CB	29:BF:148:LEU:HD23	2.45	0.46
24:BA:2106:G:H2'	24:BA:2107:C:O4'	2.15	0.46
1:AA:1048:G:HO2'	1:AA:1050:G:P	2.38	0.46
1:AA:110:C:C2'	1:AA:111:G:C5'	2.94	0.46
1:AA:1092:A:N7	1:AA:1183:A:N7	2.63	0.46
1:AA:977:A:N6	1:AA:1224:G:P	2.88	0.46
1:AA:1256:A:C6	1:AA:1278:U:O2'	2.64	0.46
1:AA:1259:C:C2	1:AA:1283:G:H1'	2.49	0.46
1:AA:1319:A:H61	1:AA:1361:G:H1'	1.80	0.46
1:AA:1361:G:C3'	1:AA:1361:G:C8	2.99	0.46
1:AA:1374:A:H2'	1:AA:1375:A:O5'	2.16	0.46
1:AA:1399:C:HO2'	1:AA:1400:C:P	2.38	0.46
1:AA:1453:G:O2'	1:AA:1454:G:H5'	2.16	0.46
1:AA:142:G:O2'	1:AA:196:A:C2	2.64	0.46
1:AA:196:A:H1'	1:AA:222:U:O4'	2.15	0.46
1:AA:43:C:O5'	18:AS:12:LYS:HG2	2.15	0.46
1:AA:501:C:OP2	14:AO:124:LYS:HD2	2.16	0.46
1:AA:560:U:C2'	1:AA:561:U:OP2	2.63	0.46
1:AA:563:A:C2	1:AA:567:G:C5	3.04	0.46
1:AA:590:C:OP1	10:AK:29:SER:CB	2.62	0.46
1:AA:597:G:C8	1:AA:644:G:N2	2.83	0.46
1:AA:771:G:O6	1:AA:809:G:C6	2.69	0.46
1:AA:834:C:N4	1:AA:853:G:O6	2.49	0.46
1:AA:864:A:H8	1:AA:864:A:O5'	1.99	0.46
1:AA:873:A:C5'	1:AA:874:G:OP2	2.60	0.46
1:AA:924:C:H5'	1:AA:1399:C:OP1	2.16	0.46
1:AA:97:U:H2'	1:AA:99:C:C6	2.51	0.46
4:AE:20:GLU:CG	4:AE:189:ASP:OD2	2.64	0.46
4:AE:32:ILE:CG2	4:AE:32:ILE:O	2.61	0.46
4:AE:18:GLY:HA2	4:AE:41:ILE:HG23	1.96	0.46
4:AE:88:ALA:HA	4:AE:222:ILE:CD1	2.46	0.46
5:AF:84:ILE:HG13	5:AF:101:LEU:CG	2.46	0.46
5:AF:33:LEU:HD11	16:AQ:53:LEU:CA	2.28	0.46
5:AF:47:LEU:O	5:AF:52:LEU:HD13	2.16	0.46
6:AG:191:ARG:HB3	6:AG:192:GLU:OE1	2.16	0.46
7:AH:9:LYS:HD2	7:AH:112:LEU:HD23	1.96	0.46
7:AH:12:LEU:C	7:AH:13:ILE:HD12	2.35	0.46
9:AJ:69:VAL:HG13	9:AJ:135:VAL:N	2.30	0.46
1:AA:1240:U:N1	9:AJ:32:ARG:NH2	2.63	0.46
9:AJ:70:LYS:C	9:AJ:138:LYS:HE3	2.36	0.46
9:AJ:75:VAL:HG22	9:AJ:88:PRO:HA	1.95	0.46
10:AK:137:VAL:CG1	10:AK:138:TRP:N	2.79	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AK:18:ARG:HD2	10:AK:18:ARG:H	1.81	0.46
1:AA:1058:G:H21	12:AM:53:PRO:HG3	1.81	0.46
13:AN:21:ILE:HG12	13:AN:83:ILE:O	2.15	0.46
14:AO:26:ALA:HA	14:AO:98:TYR:HE2	1.80	0.46
14:AO:85:ILE:HD12	14:AO:99:HIS:O	2.15	0.46
15:AP:104:ARG:CD	15:AP:105:THR:HG23	2.46	0.46
15:AP:25:ILE:HG12	15:AP:66:LEU:CD1	2.46	0.46
15:AP:15:VAL:CG1	15:AP:39:ILE:HD12	2.43	0.46
17:AR:49:ASP:O	17:AR:50:HIS:C	2.53	0.46
18:AS:19:ILE:O	18:AS:36:ILE:HG13	2.15	0.46
1:AA:377:G:OP1	18:AS:3:LYS:HD2	2.15	0.46
1:AA:278:G:C4	19:AT:95:TYR:CE2	3.04	0.46
21:AV:15:LEU:O	21:AV:16:LEU:C	2.53	0.46
1:AA:1459:C:P	22:AW:27:LYS:NZ	2.89	0.46
22:AW:33:ILE:CD1	22:AW:63:ILE:HA	2.24	0.46
22:AW:86:ARG:O	22:AW:90:GLN:OE1	2.34	0.46
48:B1:19:LEU:HD22	48:B1:23:LYS:HG3	1.98	0.46
49:B2:7:LYS:HB3	49:B2:55:ARG:CB	2.43	0.46
24:BA:1263:U:C5'	51:B4:10:LYS:HZ3	2.26	0.46
52:B5:25:LYS:HE2	54:B7:35:GLN:CB	2.42	0.46
55:B8:19:ARG:HG2	55:B8:24:TYR:HB2	1.98	0.46
24:BA:82:G:N2	24:BA:103:A:OP2	2.47	0.46
24:BA:1080:C:O2'	33:BL:126:MET:N	2.48	0.46
24:BA:1110:G:O3'	24:BA:1111:A:C8	2.69	0.46
24:BA:1130:U:O2'	24:BA:1131:G:P	2.73	0.46
24:BA:1264:G:C3'	24:BA:1264:G:C8	2.99	0.46
24:BA:1352:U:O2'	24:BA:1353:A:C5'	2.61	0.46
24:BA:1361:G:O2'	24:BA:1362:C:H5'	2.16	0.46
24:BA:1433:U:C6	24:BA:1433:U:C3'	2.98	0.46
24:BA:1522:G:H3'	24:BA:1522:G:H8	1.80	0.46
24:BA:1449:A:H1'	24:BA:1529:A:C5	2.50	0.46
24:BA:1496:A:C4	24:BA:1577:C:O2'	2.69	0.46
24:BA:1591:G:C6	24:BA:1592:C:C4	3.03	0.46
24:BA:1667:G:C2'	24:BA:1667:G:N3	2.64	0.46
24:BA:1725:G:C2	24:BA:1726:G:C8	3.04	0.46
24:BA:1794:U:O4'	24:BA:1900:A:C5	2.69	0.46
24:BA:1799:G:C8	27:BD:183:ARG:NH2	2.80	0.46
24:BA:1858:G:O2'	24:BA:1859:A:O5'	2.34	0.46
24:BA:1883:G:H5''	24:BA:1884:A:OP1	2.15	0.46
24:BA:193:U:C4'	24:BA:803:U:H5'	2.46	0.46
24:BA:1953:A:N6	24:BA:2550:G:C4'	2.77	0.46
24:BA:1958:C:O2'	24:BA:1959:G:C5'	2.58	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2027:G:C1'	24:BA:2037:G:H22	2.23	0.46
24:BA:21:A:O2'	24:BA:22:C:H5'	2.16	0.46
24:BA:2232:U:C2'	24:BA:2233:U:O5'	2.64	0.46
24:BA:2264:C:H2'	24:BA:2265:U:O5'	2.15	0.46
24:BA:2305:A:C1'	30:BG:154:GLY:C	2.84	0.46
24:BA:2374:C:N4	24:BA:2375:G:O6	2.49	0.46
24:BA:2345:G:H21	24:BA:2381:C:H3'	1.79	0.46
24:BA:2390:U:O2'	24:BA:2391:G:C5'	2.58	0.46
24:BA:2450:A:C2	24:BA:2451:A:C1'	2.98	0.46
24:BA:250:G:OP1	54:B7:12:LYS:NZ	2.35	0.46
24:BA:2690:C:O2'	24:BA:2691:C:H5'	2.16	0.46
24:BA:2691:C:C4'	24:BA:2872:G:N7	2.78	0.46
24:BA:270:A:O2'	24:BA:270(A):A:OP1	2.32	0.46
24:BA:270(N):G:H3'	24:BA:270(O):U:C5	2.50	0.46
24:BA:2691:C:N4	24:BA:2719:G:N2	2.64	0.46
24:BA:2752:C:C6	24:BA:2752:C:OP1	2.69	0.46
24:BA:2811:G:N1	24:BA:2891:G:N3	2.64	0.46
24:BA:2815:C:O2'	51:B4:42:PRO:HB3	2.16	0.46
24:BA:2825:C:N3	24:BA:2826:A:C5	2.84	0.46
24:BA:2826:A:H2'	24:BA:2827:C:C5'	2.46	0.46
24:BA:2630:G:H21	24:BA:2892:A:H1'	1.81	0.46
24:BA:298:G:H8	24:BA:298:G:P	2.38	0.46
24:BA:304:G:N2	24:BA:305:U:H1'	2.30	0.46
24:BA:324:A:H2	24:BA:325:G:C1'	2.28	0.46
24:BA:417:C:O5'	24:BA:417:C:H6	1.98	0.46
24:BA:269:U:C2	24:BA:424:G:N1	2.84	0.46
24:BA:465:G:H21	24:BA:683:C:C2'	2.27	0.46
24:BA:640:C:H42	24:BA:647:G:H1	1.58	0.46
24:BA:885:C:H5	24:BA:887:A:N3	2.14	0.46
24:BA:915:C:O2'	24:BA:916:G:H5'	2.16	0.46
24:BA:986:C:H3'	24:BA:986:C:C6	2.51	0.46
25:BB:113:C:H2'	25:BB:114:G:C8	2.50	0.46
25:BB:32:C:O2	25:BB:32:C:C2'	2.60	0.46
25:BB:52:A:H4'	25:BB:52:A:OP1	2.15	0.46
27:BD:171:ASP:O	27:BD:186:HIS:CB	2.64	0.46
27:BD:55:GLY:HA2	27:BD:218:ARG:HD3	1.96	0.46
27:BD:34:VAL:H	27:BD:104:TYR:HH	1.61	0.46
27:BD:68:LYS:HB3	27:BD:70:TRP:CE2	2.48	0.46
28:BE:5:LEU:HG	28:BE:25:VAL:CG1	2.44	0.46
28:BE:38:THR:HG22	28:BE:39:PRO:CD	2.46	0.46
28:BE:53:PRO:HG2	28:BE:75:VAL:CG1	2.45	0.46
28:BE:95:ILE:HG22	28:BE:96:PHE:N	2.31	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:659:C:C5'	29:BF:102:PRO:HD3	2.45	0.46
30:BG:107:LEU:CD1	30:BG:111:LEU:HD13	2.40	0.46
30:BG:30:GLU:HG2	30:BG:33:ARG:CG	2.46	0.46
30:BG:39:ILE:CD1	30:BG:92:VAL:O	2.64	0.46
31:BH:101:ARG:HB3	31:BH:117:PRO:CD	2.45	0.46
31:BH:137:ASP:HB3	31:BH:140:LYS:CE	2.46	0.46
31:BH:154:PRO:O	31:BH:155:SER:CB	2.54	0.46
31:BH:97:ARG:O	31:BH:104:GLU:CG	2.64	0.46
33:BL:10:LEU:HD23	33:BL:55:VAL:O	2.15	0.46
33:BL:78:ILE:HD13	33:BL:131:ALA:CA	2.45	0.46
34:BM:134:ARG:N	34:BM:135:PRO:HD2	2.31	0.46
34:BM:72:TYR:O	34:BM:72:TYR:HD2	1.99	0.46
35:BN:8:LEU:HD11	35:BN:82:ASN:CA	2.43	0.46
36:BO:131:SER:N	36:BO:134:ALA:CB	2.79	0.46
24:BA:2393:A:C5'	36:BO:56:SER:H	2.28	0.46
37:BP:42:ILE:CD1	37:BP:46:GLN:NE2	2.78	0.46
37:BP:46:GLN:HG2	37:BP:125:LEU:HD22	1.97	0.46
37:BP:77:LYS:HG3	37:BP:88:GLY:O	2.15	0.46
38:BQ:75:LEU:HD23	38:BQ:78:LYS:CG	2.45	0.46
38:BQ:84:ALA:HB3	38:BQ:85:PRO:HD3	1.98	0.46
39:BR:36:TYR:HD1	39:BR:51:ALA:HB3	1.81	0.46
39:BR:77:ALA:CA	39:BR:80:LEU:HB2	2.46	0.46
40:BS:51:ARG:NH1	40:BS:114:LEU:CD1	2.76	0.46
35:BN:122:LEU:HA	40:BS:71:GLY:HA3	1.97	0.46
42:BU:15:GLU:O	42:BU:98:GLU:CD	2.55	0.46
44:BW:6:ASP:OD1	44:BW:7:VAL:N	2.49	0.46
44:BW:84:ALA:N	44:BW:85:PRO:CD	2.78	0.46
46:BY:102:LEU:HA	46:BY:137:ILE:O	2.15	0.46
46:BY:110:GLY:HA2	46:BY:144:LEU:CB	2.44	0.46
46:BY:17:ALA:HA	46:BY:20:ARG:HH21	1.80	0.46
46:BY:17:ALA:O	46:BY:20:ARG:HB3	2.16	0.46
46:BY:77:ASP:O	46:BY:78:LYS:C	2.53	0.46
24:BA:2114:A:H2'	24:BA:2115:G:C4'	2.46	0.46
24:BA:2128:C:C4	24:BA:2129:C:C5	3.03	0.46
26:BC:209:LEU:C	26:BC:209:LEU:HD23	2.36	0.46
48:B1:6:GLU:O	48:B1:10:LYS:HE2	2.15	0.46
1:AA:131:C:C4	1:AA:232:G:N2	2.84	0.46
24:BA:1767:C:O2'	24:BA:1768:U:H5'	2.16	0.46
1:AA:73:G:C4	1:AA:74:C:C5	3.03	0.46
24:BA:1232:G:C2	24:BA:1233:C:C6	3.04	0.46
1:AA:1053:G:H2'	1:AA:1199:U:H5	1.80	0.46
1:AA:104:G:N1	1:AA:105:G:C5	2.83	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1062:U:N3	1:AA:1063:C:N4	2.63	0.46
1:AA:1152:A:C6	1:AA:1153:C:C4	3.04	0.46
1:AA:1332:A:H3'	1:AA:1333:A:C8	2.51	0.46
1:AA:1358:U:OP1	16:AQ:34:TYR:CA	2.63	0.46
1:AA:1407:C:N3	1:AA:1495:U:O4	2.49	0.46
1:AA:184:G:H4'	1:AA:224:C:O3'	2.16	0.46
1:AA:258:G:N1	1:AA:259:G:C5	2.84	0.46
1:AA:251:G:H1	1:AA:271:C:H41	1.64	0.46
1:AA:299:G:C5	1:AA:300:A:N6	2.84	0.46
1:AA:305:G:O2'	1:AA:306:G:OP2	2.33	0.46
1:AA:498:A:C4'	1:AA:500:G:OP1	2.61	0.46
1:AA:682:G:C2	1:AA:683:G:C8	3.04	0.46
1:AA:688:G:H2'	1:AA:689:C:O4'	2.16	0.46
1:AA:695:A:C2	1:AA:696:A:N9	2.84	0.46
1:AA:706:A:C2	1:AA:707:C:N1	2.84	0.46
1:AA:729:A:N6	17:AR:51:HIS:NE2	2.64	0.46
1:AA:739:C:H2'	1:AA:740:U:O5'	2.16	0.46
1:AA:586:C:H1'	1:AA:878:G:O2'	2.16	0.46
1:AA:931:C:H2'	1:AA:932:C:C6	2.51	0.46
3:AB:18:G:HO2'	3:AB:57:G:N2	2.13	0.46
3:AC:4:C:H2'	3:AC:5:G:O5'	2.15	0.46
4:AE:80:ILE:CG1	4:AE:212:GLN:HG2	2.45	0.46
4:AE:35:GLU:CD	4:AE:36:ARG:N	2.69	0.46
5:AF:5:ILE:CD1	5:AF:10:PHE:CE2	2.99	0.46
6:AG:100:ARG:HG2	6:AG:100:ARG:HH11	1.81	0.46
1:AA:408:A:H5'	6:AG:116:GLN:HE21	1.81	0.46
1:AA:438:G:C5'	6:AG:123:HIS:HB3	2.45	0.46
6:AG:112:VAL:HG22	6:AG:161:ASN:HD21	1.81	0.46
6:AG:173:TRP:CD1	6:AG:185:PHE:CE2	3.02	0.46
6:AG:29:PRO:O	6:AG:30:LYS:CB	2.64	0.46
7:AH:129:ILE:O	7:AH:130:ASN:C	2.54	0.46
7:AH:40:ARG:HB2	7:AH:68:GLU:OE1	2.14	0.46
9:AJ:15:ASP:OD2	9:AJ:16:LEU:N	2.49	0.46
10:AK:114:THR:H	10:AK:119:LEU:HD23	1.81	0.46
10:AK:46:LYS:HG3	10:AK:64:LYS:HB2	1.97	0.46
10:AK:49:GLU:OE2	10:AK:60:ARG:HB3	2.16	0.46
10:AK:63:LEU:HB2	10:AK:65:TYR:HE1	1.79	0.46
1:AA:1131:G:OP1	11:AL:20:ARG:NH1	2.49	0.46
11:AL:31:GLN:HB3	11:AL:35:GLU:OE2	2.15	0.46
12:AM:47:PHE:HZ	12:AM:65:LEU:HB2	1.80	0.46
12:AM:16:LEU:HD13	12:AM:94:VAL:HG21	1.98	0.46
13:AN:103:LEU:O	13:AN:104:GLN:CB	2.63	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AN:34:ASP:CB	13:AN:35:PRO:CD	2.94	0.46
15:AP:97:PRO:CB	15:AP:101:GLN:CB	2.94	0.46
15:AP:73:GLU:OE2	15:AP:77:ASN:HB3	2.16	0.46
17:AR:11:VAL:C	17:AR:13:GLN:N	2.62	0.46
17:AR:6:GLU:O	17:AR:8:LYS:N	2.49	0.46
18:AS:75:ARG:O	18:AS:76:GLN:C	2.54	0.46
19:AT:50:LYS:HB3	19:AT:51:TYR:CD1	2.51	0.46
8:AI:97:PHE:O	20:AU:30:ASP:HA	2.16	0.46
48:B1:23:LYS:NZ	48:B1:23:LYS:HB3	2.30	0.46
49:B2:29:ARG:HB2	49:B2:30:ARG:HH21	1.72	0.46
49:B2:6:VAL:CB	49:B2:35:ARG:HH21	2.29	0.46
50:B3:38:LYS:HG2	50:B3:40:HIS:CE1	2.51	0.46
50:B3:42:PHE:O	50:B3:61:ARG:NH2	2.48	0.46
50:B3:58:ARG:CG	50:B3:62:ARG:NH2	2.79	0.46
50:B3:62:ARG:HA	50:B3:65:ASP:OD1	2.16	0.46
52:B5:50:ARG:O	52:B5:51:GLU:HB3	2.15	0.46
24:BA:458:G:N7	53:B6:38:GLY:CA	2.79	0.46
24:BA:1069:A:C2	24:BA:1073:A:OP2	2.68	0.46
24:BA:1076:C:H4'	33:BL:93:ARG:HH21	1.77	0.46
24:BA:1184:G:P	49:B2:30:ARG:HH11	2.39	0.46
24:BA:1229:G:C5	24:BA:1230:C:C2	3.03	0.46
24:BA:1237:A:O2'	24:BA:1238:G:C4'	2.62	0.46
24:BA:1308:A:N6	24:BA:1606:G:H1'	2.31	0.46
24:BA:1322:A:H2'	24:BA:1323:U:C5'	2.45	0.46
24:BA:1382:G:C4	24:BA:1383:C:C5	3.03	0.46
24:BA:141:A:N3	24:BA:1596:A:O2'	2.40	0.46
24:BA:1429:G:H1'	24:BA:1568:G:C2	2.51	0.46
24:BA:1523:U:N3	24:BA:1524:G:C8	2.84	0.46
24:BA:1560:G:C4	24:BA:1561:G:C8	3.04	0.46
24:BA:1704:G:C2'	24:BA:1705:G:O5'	2.63	0.46
24:BA:1809:A:N1	50:B3:3:GLU:CD	2.69	0.46
24:BA:1850:G:C6	24:BA:1851:U:C4	3.04	0.46
24:BA:1889:A:O4'	24:BA:2087:G:C4'	2.62	0.46
24:BA:1892:C:N4	24:BA:1893:C:H41	2.13	0.46
24:BA:1907:G:O2'	24:BA:1908:C:H5'	2.15	0.46
24:BA:1914:C:P	24:BA:1916:A:C6	3.09	0.46
24:BA:1917:U:C6	24:BA:1918:A:N9	2.84	0.46
24:BA:19:C:C2	24:BA:20:C:C5	3.04	0.46
24:BA:2033:A:C6	24:BA:2036:C:N4	2.83	0.46
24:BA:2041:U:O2'	24:BA:2042:A:O4'	2.21	0.46
24:BA:2072:G:C4	24:BA:2073:C:H5	2.27	0.46
24:BA:2199:A:C5	24:BA:2205:C:C5	3.04	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2378:A:N3	24:BA:2378:A:C2'	2.77	0.46
24:BA:2401:U:H2'	24:BA:2402:C:O4'	2.15	0.46
24:BA:2407:G:H3'	24:BA:2408:U:C5	2.51	0.46
24:BA:2516:G:N9	24:BA:2569:G:N2	2.64	0.46
24:BA:2532:G:H2'	24:BA:2533:A:C8	2.51	0.46
24:BA:2519:U:C2	24:BA:2542:A:N1	2.83	0.46
24:BA:2586:C:H3'	24:BA:2586:C:C6	2.51	0.46
24:BA:2586:C:O2'	24:BA:2587:A:H5'	2.16	0.46
24:BA:1939:U:O2'	24:BA:2592:G:H1'	2.15	0.46
24:BA:2599:G:H2'	24:BA:2600:A:O4'	2.16	0.46
24:BA:2630:G:C8	24:BA:2894:G:C6	3.04	0.46
24:BA:2721:A:C3'	24:BA:2722:G:H8	2.28	0.46
24:BA:2851:A:C2'	24:BA:2852:G:O5'	2.64	0.46
24:BA:2888:C:O2'	24:BA:2889:C:O4'	2.24	0.46
24:BA:307:G:N1	24:BA:309:G:H5''	2.30	0.46
24:BA:319:C:H2'	24:BA:320:A:H8	1.71	0.46
24:BA:326:G:N3	24:BA:327:G:C8	2.84	0.46
24:BA:416:C:C2	24:BA:2407:G:O6	2.69	0.46
24:BA:459:U:H5	24:BA:469:G:C2	2.33	0.46
24:BA:485:C:C4	24:BA:486:C:C5	3.03	0.46
24:BA:531:C:H3'	24:BA:532:A:C1'	2.45	0.46
24:BA:533:G:C6	24:BA:534:U:C2	3.04	0.46
24:BA:603:A:N6	24:BA:625:G:C8	2.84	0.46
24:BA:607:U:H5	24:BA:620:G:H21	1.64	0.46
24:BA:6:A:C2	24:BA:7:G:C8	3.04	0.46
24:BA:743:G:H2'	24:BA:744:G:H8	1.79	0.46
24:BA:799:G:OP1	24:BA:800:A:H3'	2.15	0.46
24:BA:586:A:C2	24:BA:810:U:O4'	2.69	0.46
24:BA:959:A:C6	24:BA:960:A:C6	3.03	0.46
24:BA:997:G:H5''	41:BT:92:ARG:CZ	2.44	0.46
25:BB:27:C:H41	25:BB:56:G:H1	1.53	0.46
25:BB:68:C:H2'	25:BB:69:G:C8	2.50	0.46
25:BB:77:U:C2'	25:BB:78:A:H8	2.24	0.46
27:BD:129:ASN:O	27:BD:193:VAL:HG23	2.15	0.46
27:BD:216:GLY:O	27:BD:217:ARG:CB	2.42	0.46
28:BE:111:ARG:HB2	28:BE:160:TYR:C	2.37	0.46
28:BE:201:THR:O	28:BE:202:LYS:CB	2.63	0.46
29:BF:200:GLU:O	29:BF:204:ASN:OD1	2.33	0.46
30:BG:29:TRP:HB2	30:BG:31:VAL:HG23	1.97	0.46
31:BH:25:LYS:HD3	31:BH:27:LYS:HZ3	1.81	0.46
31:BH:6:ARG:O	31:BH:65:HIS:CD2	2.68	0.46
31:BH:80:SER:OG	31:BH:81:GLU:OE2	2.33	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BK:7:GLU:H	32:BK:8:PRO:HD3	1.79	0.46
34:BM:113:GLY:O	34:BM:116:LEU:N	2.48	0.46
34:BM:31:ALA:C	34:BM:33:LEU:N	2.69	0.46
24:BA:1996:C:OP2	35:BN:31:LYS:NZ	2.49	0.46
35:BN:31:LYS:O	35:BN:32:TYR:CG	2.68	0.46
36:BO:108:LYS:HD3	36:BO:109:GLY:N	2.20	0.46
36:BO:138:LEU:HD11	36:BO:145:PRO:HG3	1.97	0.46
36:BO:97:PRO:HA	36:BO:102:ARG:CZ	2.46	0.46
37:BP:99:PRO:CD	37:BP:101:ARG:NE	2.78	0.46
37:BP:67:ARG:NH2	37:BP:103:MET:O	2.49	0.46
37:BP:104:PHE:C	37:BP:105:GLU:OE1	2.55	0.46
37:BP:119:ARG:O	37:BP:123:HIS:HB3	2.15	0.46
37:BP:43:THR:O	37:BP:44:ALA:C	2.54	0.46
39:BR:9:ARG:N	39:BR:9:ARG:NH1	2.53	0.46
40:BS:96:ARG:NE	40:BS:117:ASP:HB3	2.31	0.46
40:BS:54:ARG:O	40:BS:55:ASN:OD1	2.34	0.46
41:BT:15:LYS:O	41:BT:16:LYS:C	2.52	0.46
42:BU:14:VAL:CG1	42:BU:15:GLU:H	2.08	0.46
42:BU:1:MET:HB3	42:BU:15:GLU:HG2	1.98	0.46
42:BU:67:GLY:HA2	42:BU:93:GLU:C	2.34	0.46
45:BX:37:VAL:HG22	45:BX:39:VAL:HG21	1.97	0.46
45:BX:47:LYS:HB3	45:BX:49:VAL:HG13	1.96	0.46
24:BA:297:C:H5''	45:BX:83:THR:CG2	2.46	0.46
46:BY:122:ARG:C	46:BY:124:ILE:H	2.18	0.46
46:BY:2:GLU:OE2	46:BY:58:VAL:CG2	2.64	0.46
25:BB:75:G:N3	46:BY:85:HIS:CE1	2.84	0.46
47:BZ:50:ASN:CB	47:BZ:63:VAL:HG22	2.46	0.46
32:BK:79:ILE:CD1	32:BK:79:ILE:N	2.67	0.46
26:BC:64:LEU:CB	26:BC:188:ASN:ND2	2.73	0.46
45:BX:42:VAL:N	45:BX:61:ILE:CB	2.68	0.46
24:BA:2103:C:C2'	24:BA:2104:G:H8	2.13	0.46
52:B5:54:ILE:C	52:B5:54:ILE:CD1	2.85	0.46
24:BA:489:G:N2	24:BA:491:G:H1'	2.30	0.46
2:A1:52:U:C5'	6:AG:50:ARG:HB2	2.45	0.46
1:AA:1026:G:C8	1:AA:1027:C:C5	3.04	0.46
1:AA:1111:A:C6	1:AA:1112:C:N4	2.84	0.46
1:AA:1132:C:C2	1:AA:1133:G:C8	3.03	0.46
1:AA:1180:A:C2'	1:AA:1181:G:C5'	2.86	0.46
1:AA:1182:G:H4'	1:AA:1183:A:C5'	2.45	0.46
1:AA:1210:C:H2'	1:AA:1211:U:C6	2.51	0.46
1:AA:991:U:N3	1:AA:1212:U:O2	2.49	0.46
1:AA:1239:A:H4'	1:AA:1240:U:O5'	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1250:A:C8	1:AA:1251:A:N7	2.85	0.46
1:AA:1277:C:H2'	1:AA:1279:A:H8	1.80	0.46
1:AA:1284:C:C4	1:AA:1285:A:C5	3.04	0.46
1:AA:1305:G:N2	1:AA:1331:G:N3	2.63	0.46
1:AA:1309:G:O6	1:AA:1329:A:C6	2.69	0.46
1:AA:1363:A:N3	1:AA:1365:G:N1	2.63	0.46
1:AA:1422:G:C2	1:AA:1423:G:N7	2.84	0.46
1:AA:18:C:N4	1:AA:918:A:N6	2.64	0.46
1:AA:244:U:HO2'	1:AA:245:C:P	2.36	0.46
1:AA:310:G:H2'	1:AA:311:C:C5	2.49	0.46
1:AA:659:U:C2	1:AA:660:G:N7	2.84	0.46
1:AA:692:U:O2	1:AA:694:A:H8	1.99	0.46
1:AA:883:C:H5'	1:AA:884:U:OP2	2.16	0.46
1:AA:955:U:H2'	1:AA:956:U:C6	2.51	0.46
3:AC:36:A:N1	3:AC:37:A:C5	2.84	0.46
4:AE:76:GLN:HG3	4:AE:206:ASP:OD2	2.16	0.46
5:AF:36:ASP:C	5:AF:36:ASP:OD2	2.54	0.46
6:AG:191:ARG:HD3	6:AG:191:ARG:C	2.35	0.46
6:AG:72:GLU:O	6:AG:75:PHE:HB3	2.15	0.46
7:AH:9:LYS:HB3	7:AH:108:ALA:HB1	1.97	0.46
7:AH:6:PHE:HZ	7:AH:66:MET:SD	2.39	0.46
8:AI:69:GLU:O	8:AI:72:VAL:HG22	2.16	0.46
9:AJ:111:ARG:HD3	9:AJ:122:HIS:HB3	1.98	0.46
9:AJ:57:GLU:CB	9:AJ:58:PRO:HD2	2.47	0.46
9:AJ:76:ARG:HH11	9:AJ:89:MET:CG	2.28	0.46
13:AN:42:TRP:HZ3	13:AN:47:VAL:CG2	2.29	0.46
14:AO:102:ARG:NH2	14:AO:109:GLY:C	2.69	0.46
14:AO:110:VAL:HB	14:AO:113:ARG:HG3	1.98	0.46
14:AO:64:TYR:O	14:AO:65:GLU:HG3	2.16	0.46
15:AP:3:ARG:HG3	15:AP:7:VAL:HA	1.97	0.46
15:AP:90:LEU:O	15:AP:91:ARG:C	2.52	0.46
17:AR:36:ILE:CG1	17:AR:60:VAL:HG22	2.46	0.46
8:AI:46:ARG:HH12	20:AU:37:VAL:HG22	1.81	0.46
20:AU:40:LEU:O	20:AU:41:LYS:C	2.54	0.46
20:AU:53:ARG:CA	20:AU:63:GLN:HE21	2.25	0.46
1:AA:191:G:N3	22:AW:105:SER:HB3	2.31	0.46
22:AW:81:LYS:O	22:AW:84:LEU:N	2.49	0.46
23:AX:24:ARG:O	23:AX:25:LYS:CB	2.60	0.46
51:B4:51:TYR:HD1	51:B4:55:ARG:H	1.62	0.46
52:B5:20:ASN:HD21	52:B5:42:TRP:HD1	1.61	0.46
36:BO:56:SER:O	54:B7:13:ARG:NH1	2.49	0.46
55:B8:1:MET:N	55:B8:33:LYS:CB	2.79	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1128:A:O2'	24:BA:1129:A:C5'	2.64	0.46
24:BA:1144:G:C2'	24:BA:1145:C:H6	2.20	0.46
24:BA:1203:G:C5	24:BA:1240:U:C4	3.04	0.46
24:BA:119:A:O2'	24:BA:120:U:C5'	2.64	0.46
24:BA:1225:C:OP1	42:BU:88:ARG:HB3	2.16	0.46
24:BA:1243:G:N1	24:BA:1244:G:C4	2.84	0.46
24:BA:1364:G:C2	24:BA:1367:A:OP2	2.69	0.46
24:BA:1419:A:OP2	24:BA:1419:A:O4'	2.34	0.46
24:BA:1525:G:H2'	24:BA:1526:G:O5'	2.16	0.46
24:BA:1527:G:C2'	24:BA:1528:A:O4'	2.60	0.46
24:BA:1655:A:H3'	24:BA:1656:C:C6	2.51	0.46
24:BA:1657:C:C4	24:BA:1658:C:C5	3.04	0.46
24:BA:1684:C:N4	24:BA:1705:G:N1	2.64	0.46
24:BA:1799:G:O2'	24:BA:1800:C:C4'	2.63	0.46
24:BA:1831:G:C6	24:BA:1832:C:C4	3.04	0.46
24:BA:1899:G:H22	24:BA:1902:C:H41	1.62	0.46
24:BA:215:G:O2'	24:BA:216:A:H5''	2.15	0.46
24:BA:218:A:N6	24:BA:219:G:N2	2.64	0.46
24:BA:2227:A:C5'	27:BD:260:ARG:CD	2.91	0.46
24:BA:2230:G:C6	24:BA:2231:C:C4	3.04	0.46
24:BA:2236:C:C4	24:BA:2237:G:C4	3.04	0.46
24:BA:223:A:H2	24:BA:407:G:N3	2.14	0.46
24:BA:2285:C:C4'	24:BA:2288:A:C6	2.98	0.46
24:BA:2285:C:O4'	24:BA:2288:A:C6	2.69	0.46
24:BA:2386:C:H2'	24:BA:2386:C:O2	2.16	0.46
24:BA:2459:A:C6	24:BA:2493:U:C4	3.04	0.46
24:BA:2589:A:OP1	27:BD:226:MET:HG3	2.16	0.46
24:BA:2633:G:C6	24:BA:2634:G:N7	2.84	0.46
24:BA:2637:U:C5'	28:BE:81:ILE:CD1	2.79	0.46
24:BA:270(P):C:O5'	24:BA:270(P):C:H6	1.99	0.46
24:BA:2717:G:C4	24:BA:2718:G:C8	3.04	0.46
24:BA:2723:C:O2'	24:BA:2724:C:H5'	2.16	0.46
24:BA:1051:G:C4'	24:BA:2752:C:H1'	2.41	0.46
24:BA:2811:G:H2'	24:BA:2812:G:O4'	2.15	0.46
24:BA:2820:A:H4'	38:BQ:4:LEU:CD2	2.46	0.46
24:BA:2863:C:O2	24:BA:2864:G:C8	2.69	0.46
24:BA:35:G:C5	24:BA:454:A:H2	2.34	0.46
24:BA:389:G:OP1	24:BA:389:G:C8	2.69	0.46
24:BA:427:U:O2'	24:BA:428:A:H1'	2.16	0.46
24:BA:500:G:C2'	24:BA:501:A:H3'	2.46	0.46
24:BA:529:A:H4'	24:BA:529:A:OP1	2.16	0.46
24:BA:52:A:C4	24:BA:53:A:N7	2.83	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:588:U:H1'	29:BF:90:PHE:CG	2.51	0.46
24:BA:590:A:C2	24:BA:591:C:C2	3.04	0.46
24:BA:648:G:C2	24:BA:649:G:C8	3.04	0.46
24:BA:6:A:C2	24:BA:7:G:C5	3.04	0.46
24:BA:774:A:C5'	24:BA:778:G:O4'	2.64	0.46
24:BA:802:A:C6	24:BA:803:U:C2	3.04	0.46
24:BA:820:A:H2	24:BA:944:G:OP1	1.98	0.46
27:BD:54:ARG:HA	27:BD:220:HIS:H	1.81	0.46
27:BD:268:ARG:HG2	27:BD:269:PHE:N	2.31	0.46
27:BD:63:ARG:CZ	27:BD:63:ARG:N	2.79	0.46
28:BE:59:VAL:HB	28:BE:62:PRO:HG2	1.97	0.46
24:BA:2635:C:H5''	28:BE:78:LEU:HD13	1.97	0.46
28:BE:84:PHE:C	28:BE:85:ASN:ND2	2.64	0.46
29:BF:110:LEU:HD21	29:BF:186:ILE:HD11	1.95	0.46
29:BF:123:LEU:CG	29:BF:191:ARG:HD3	2.45	0.46
29:BF:37:VAL:HG12	29:BF:41:LEU:CD2	2.40	0.46
30:BG:123:ASN:HB2	30:BG:126:ASP:CB	2.45	0.46
30:BG:68:PRO:CG	30:BG:90:LEU:HD21	2.43	0.46
31:BH:149:ARG:HB2	31:BH:149:ARG:HE	1.53	0.46
24:BA:1036:G:P	31:BH:59:ARG:NH2	2.89	0.46
34:BM:136:GLU:C	34:BM:137:LYS:HG3	2.36	0.46
35:BN:78:ARG:HE	35:BN:78:ARG:HB3	1.53	0.46
36:BO:127:ALA:HB3	36:BO:130:PHE:HE2	1.80	0.46
29:BF:31:HIS:CE1	36:BO:14:LYS:HE3	2.51	0.46
36:BO:57:THR:O	36:BO:58:THR:CB	2.63	0.46
37:BP:115:MET:O	37:BP:116:GLU:C	2.53	0.46
37:BP:130:LYS:HE3	37:BP:131:ILE:C	2.35	0.46
37:BP:36:ALA:C	37:BP:37:LEU:HG	2.34	0.46
37:BP:59:ARG:HA	37:BP:60:ARG:NE	2.31	0.46
37:BP:72:LYS:HE2	37:BP:96:VAL:CG2	2.46	0.46
37:BP:75:THR:HG23	37:BP:89:ASN:O	2.16	0.46
38:BQ:116:LEU:HD12	38:BQ:118:GLU:HG2	1.97	0.46
38:BQ:20:LEU:O	38:BQ:22:ARG:N	2.49	0.46
25:BB:50:G:P	39:BR:63:THR:OG1	2.74	0.46
41:BT:67:ALA:C	41:BT:71:GLN:NE2	2.70	0.46
42:BU:16:PRO:HD3	42:BU:100:ARG:HH11	1.76	0.46
43:BV:20:VAL:CG2	43:BV:47:VAL:HG11	2.46	0.46
44:BW:53:LYS:O	44:BW:81:VAL:HA	2.16	0.46
46:BY:39:VAL:HA	46:BY:44:PHE:CE1	2.50	0.46
47:BZ:50:ASN:C	47:BZ:62:LEU:HB3	2.36	0.46
47:BZ:74:ARG:HH11	47:BZ:75:LEU:CD1	2.29	0.46
3:AD:64:A:C4	3:AD:65:G:C8	3.04	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:BC:102:LYS:HE3	26:BC:107:TRP:CB	2.46	0.46
26:BC:167:LYS:CG	26:BC:168:THR:N	2.75	0.46
26:BC:200:LYS:NZ	26:BC:204:ALA:CB	2.77	0.46
24:BA:1583:A:H4'	24:BA:1583:A:OP1	2.15	0.46
1:AA:1163:C:H2'	1:AA:1164:G:C5'	2.46	0.46
1:AA:1170:A:N7	1:AA:1171:G:C5	2.84	0.46
24:BA:2182:G:N2	24:BA:2183:C:C2	2.84	0.46
16:AQ:9:LYS:HD3	16:AQ:9:LYS:O	2.16	0.46
2:A1:52:U:O2'	6:AG:51:PRO:HD3	2.16	0.45
1:AA:101:A:C5	1:AA:102:G:N7	2.84	0.45
1:AA:1047:G:O2'	1:AA:1048:G:H5'	2.16	0.45
1:AA:1060:C:C4'	12:AM:52:GLY:HA2	2.45	0.45
1:AA:1084:G:N3	1:AA:1085:U:H5	2.14	0.45
1:AA:1118:C:O4'	1:AA:1179:A:H1'	2.16	0.45
1:AA:1210:C:H4'	1:AA:1214:C:H42	1.81	0.45
1:AA:1220:G:O2'	1:AA:1221:G:H5'	2.16	0.45
1:AA:1307:U:C4	1:AA:1308:U:C5	3.04	0.45
1:AA:1357:A:C5	1:AA:1358:U:O4	2.67	0.45
1:AA:1435:G:N1	1:AA:1436:U:O4	2.49	0.45
1:AA:1449:C:C2'	1:AA:1450:U:O5'	2.62	0.45
1:AA:1517:G:N1	1:AA:1518:A:N3	2.64	0.45
1:AA:1405:G:H1'	1:AA:1518:A:O2'	2.15	0.45
1:AA:1513:A:C2	1:AA:1523:G:C6	3.03	0.45
1:AA:15:G:N3	1:AA:15:G:H2'	2.31	0.45
1:AA:307:C:C5'	1:AA:308:C:OP2	2.64	0.45
1:AA:319:G:H2'	1:AA:320:C:C5'	2.46	0.45
1:AA:320:C:O2'	1:AA:321:A:C5'	2.65	0.45
1:AA:62:U:H5''	1:AA:385:C:O2'	2.16	0.45
1:AA:404:U:H5'	6:AG:122:ARG:CD	2.45	0.45
1:AA:41:G:C2'	1:AA:42:G:C8	2.87	0.45
1:AA:46:G:H2'	1:AA:366:C:N4	2.30	0.45
1:AA:515:G:H3'	1:AA:516:U:C6	2.51	0.45
1:AA:564:C:C4	1:AA:565:U:C4	3.03	0.45
1:AA:687:A:H2'	1:AA:701:C:N4	2.30	0.45
1:AA:689:C:OP2	13:AN:55:LYS:NZ	2.49	0.45
1:AA:737:A:OP1	8:AI:92:LYS:N	2.41	0.45
1:AA:737:A:H2'	1:AA:738:C:C6	2.51	0.45
1:AA:880:C:O2'	1:AA:881:G:H5'	2.16	0.45
1:AA:888:G:H3'	1:AA:889:A:C8	2.50	0.45
1:AA:917:G:H2'	1:AA:918:A:H8	1.81	0.45
1:AA:999:U:H6	1:AA:999:U:O5'	1.99	0.45
3:AB:19:G:HO2'	3:AB:57:G:N2	2.13	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:157:ARG:HG2	4:AE:158:LEU:HD21	1.98	0.45
4:AE:15:VAL:HG21	4:AE:209:ARG:CB	2.42	0.45
4:AE:164:VAL:CG2	4:AE:165:VAL:N	2.77	0.45
4:AE:168:THR:HG21	4:AE:192:SER:HA	1.96	0.45
4:AE:32:ILE:HD12	4:AE:190:THR:CG2	2.46	0.45
4:AE:83:MET:HB2	4:AE:234:PRO:CG	2.45	0.45
4:AE:73:THR:HG22	4:AE:95:GLN:N	2.31	0.45
5:AF:185:GLY:O	5:AF:199:LYS:HA	2.16	0.45
5:AF:30:ARG:NH1	5:AF:31:HIS:HB2	2.31	0.45
6:AG:165:MET:SD	6:AG:168:ARG:NH1	2.89	0.45
6:AG:61:LYS:HA	6:AG:203:VAL:CG1	2.46	0.45
6:AG:61:LYS:HG2	6:AG:203:VAL:HG13	1.97	0.45
6:AG:85:LYS:O	6:AG:86:LYS:O	2.34	0.45
7:AH:41:VAL:HG21	7:AH:113:ALA:CB	2.45	0.45
9:AJ:139:GLU:CD	9:AJ:139:GLU:H	2.20	0.45
9:AJ:17:VAL:O	9:AJ:18:TYR:CD1	2.69	0.45
10:AK:123:GLU:CD	10:AK:124:ALA:H	2.13	0.45
10:AK:126:LYS:NZ	10:AK:127:LEU:CB	2.78	0.45
10:AK:14:ARG:HD2	10:AK:14:ARG:C	2.35	0.45
10:AK:63:LEU:HD23	10:AK:63:LEU:C	2.36	0.45
10:AK:6:ILE:HD11	10:AK:85:ARG:HD3	1.98	0.45
1:AA:1341:U:O2'	11:AL:126:SER:O	2.29	0.45
11:AL:6:GLY:HA3	11:AL:84:ALA:N	2.32	0.45
12:AM:8:LEU:HG	12:AM:19:SER:HB3	1.98	0.45
13:AN:85:ARG:HD3	13:AN:112:THR:H	1.80	0.45
13:AN:90:GLY:C	13:AN:92:GLU:N	2.67	0.45
14:AO:103:GLY:CA	14:AO:107:ALA:O	2.64	0.45
14:AO:22:SER:C	14:AO:24:VAL:N	2.70	0.45
15:AP:59:TYR:CG	15:AP:60:VAL:N	2.84	0.45
16:AQ:29:ARG:HD2	16:AQ:42:ILE:HD11	1.98	0.45
17:AR:75:PRO:HA	17:AR:78:TYR:CG	2.50	0.45
18:AS:34:GLU:OE1	18:AS:35:LYS:O	2.33	0.45
18:AS:19:ILE:HD11	18:AS:39:TYR:HB3	1.97	0.45
19:AT:34:LYS:HD2	19:AT:35:VAL:N	2.30	0.45
22:AW:81:LYS:O	22:AW:82:SER:C	2.53	0.45
48:B1:28:MET:O	48:B1:32:PHE:CD1	2.69	0.45
49:B2:40:THR:O	49:B2:44:ARG:CG	2.64	0.45
50:B3:39:CYS:C	50:B3:40:HIS:ND1	2.69	0.45
50:B3:6:HIS:CE1	50:B3:55:ARG:CD	2.99	0.45
50:B3:62:ARG:O	50:B3:63:TYR:C	2.54	0.45
52:B5:25:LYS:O	52:B5:26:ASN:CG	2.54	0.45
54:B7:17:THR:C	54:B7:19:SER:H	2.19	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1000:A:C5	24:BA:1001:A:C2	3.04	0.45
24:BA:1071:G:N2	24:BA:1090:U:C4	2.83	0.45
24:BA:1122:G:N2	24:BA:1123:C:C6	2.84	0.45
24:BA:1137:G:H2'	24:BA:1138:G:O4'	2.15	0.45
24:BA:1144:G:C2'	24:BA:1145:C:C6	2.83	0.45
24:BA:1174:A:N6	24:BA:1177:A:C5	2.82	0.45
24:BA:1191:G:C6	24:BA:1192:G:C5	3.04	0.45
24:BA:1221:C:N4	24:BA:1229:G:O6	2.49	0.45
24:BA:1221:C:C2'	24:BA:1222:C:O5'	2.63	0.45
24:BA:1342:A:C8	24:BA:1601:G:O6	2.69	0.45
24:BA:1397:U:H2'	24:BA:1397:U:O2	2.15	0.45
24:BA:1343:G:N2	24:BA:1405:U:C6	2.85	0.45
24:BA:1434:A:C2	24:BA:1435:G:C8	3.04	0.45
24:BA:1449:A:C2	24:BA:1449(A):G:C4	3.05	0.45
24:BA:1466:G:O4'	24:BA:1545(A):A:H2	1.97	0.45
24:BA:1534:G:H1'	24:BA:1536:A:H62	1.80	0.45
24:BA:1534:G:N3	24:BA:1536:A:N7	2.63	0.45
24:BA:1630:G:N1	24:BA:1637:A:C6	2.84	0.45
24:BA:172:C:C4	24:BA:173:G:N7	2.84	0.45
24:BA:1746:G:C3'	24:BA:1746:G:OP2	2.60	0.45
24:BA:1791:A:H2'	24:BA:1792:G:O4'	2.16	0.45
24:BA:1799:G:H1	27:BD:157:ARG:CZ	2.28	0.45
24:BA:1826:G:C6	24:BA:1827:C:C5	3.04	0.45
24:BA:1850:G:C5	24:BA:1851:U:C5	3.04	0.45
24:BA:1853:A:C2	24:BA:2087:G:N3	2.84	0.45
24:BA:1904:G:O2'	24:BA:1905:C:H5'	2.16	0.45
24:BA:1927:A:H2'	24:BA:1928:A:O4'	2.16	0.45
24:BA:1964:G:C6	24:BA:1967:C:N4	2.78	0.45
24:BA:1980:G:C6	24:BA:1982:C:C4	3.04	0.45
24:BA:2014:A:C2	24:BA:2613:U:C2	3.05	0.45
24:BA:2249:U:O4	24:BA:2253:G:OP2	2.34	0.45
24:BA:2278:A:H62	47:BZ:14:ARG:CB	2.23	0.45
24:BA:2278:A:C6	24:BA:2279:G:C5	3.04	0.45
24:BA:2305:A:C3'	24:BA:2306:C:C5'	2.94	0.45
24:BA:2356:C:C2'	24:BA:2357:U:O5'	2.64	0.45
24:BA:2415:G:C4	24:BA:2416:C:C5	3.04	0.45
24:BA:2548:G:C6	24:BA:2549:G:C5	3.04	0.45
24:BA:2692:C:C2'	24:BA:2847:U:O2'	2.64	0.45
24:BA:2825:C:N4	24:BA:2826:A:H62	2.15	0.45
24:BA:2887:U:C2	24:BA:2888:C:C6	3.04	0.45
24:BA:332:A:C4	24:BA:335:C:C5	3.04	0.45
24:BA:270(A):A:C8	24:BA:370:G:O4'	2.65	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:395:U:H6	24:BA:395:U:OP2	1.99	0.45
24:BA:447:A:C8	24:BA:454:A:N6	2.84	0.45
24:BA:463:G:O2'	24:BA:464:U:C5	2.67	0.45
24:BA:535:C:H4'	41:BT:53:ARG:CD	2.32	0.45
24:BA:546:C:H2'	24:BA:547:A:C4	2.51	0.45
24:BA:656:G:O2'	24:BA:657:U:C5'	2.63	0.45
24:BA:658:C:C2	24:BA:659:C:C5	3.04	0.45
24:BA:727:A:O2'	24:BA:728:G:OP1	2.24	0.45
24:BA:756:C:C4	24:BA:757:U:C6	3.04	0.45
24:BA:91:A:H3'	24:BA:92:G:H8	1.75	0.45
24:BA:930:U:H6	24:BA:930:U:H3'	1.80	0.45
25:BB:100:G:C4	25:BB:101:A:C8	3.04	0.45
25:BB:71:C:O2	25:BB:72:G:C4'	2.64	0.45
24:BA:2227:A:H5''	27:BD:260:ARG:HB3	1.97	0.45
28:BE:119:ARG:HE	28:BE:120:TRP:HB3	1.81	0.45
24:BA:1658:C:OP1	28:BE:134:ILE:CG1	2.64	0.45
28:BE:176:ILE:CG2	28:BE:176:ILE:O	2.64	0.45
29:BF:119:ARG:CZ	29:BF:119:ARG:HB2	2.40	0.45
30:BG:105:LYS:O	30:BG:109:VAL:CG2	2.53	0.45
31:BH:8:PRO:N	31:BH:51:ARG:NH2	2.64	0.45
31:BH:7:LEU:HA	31:BH:52:VAL:CG1	2.46	0.45
31:BH:97:ARG:NH1	31:BH:104:GLU:OE2	2.49	0.45
33:BL:8:VAL:HG23	33:BL:31:GLY:O	2.16	0.45
34:BM:126:PRO:C	34:BM:127:ASP:CG	2.72	0.45
34:BM:15:LEU:CG	34:BM:138:LEU:O	2.48	0.45
34:BM:13:TRP:CD2	34:BM:51:PHE:HB2	2.50	0.45
34:BM:58:ASP:O	34:BM:59:LYS:C	2.52	0.45
35:BN:68:GLU:CA	35:BN:104:ARG:NH1	2.65	0.45
35:BN:56:ASP:O	35:BN:56:ASP:OD1	2.34	0.45
35:BN:37:ASP:H	35:BN:61:VAL:CG2	2.29	0.45
35:BN:63:VAL:HB	35:BN:78:ARG:HG2	1.98	0.45
36:BO:114:ILE:CG1	36:BO:123:LEU:HB2	2.46	0.45
36:BO:124:LYS:NZ	36:BO:141:ALA:HB1	2.31	0.45
24:BA:1192:G:OP1	36:BO:18:ARG:NH1	2.48	0.45
36:BO:35:HIS:O	36:BO:36:LYS:NZ	2.49	0.45
36:BO:46:LYS:HZ3	36:BO:50:ARG:CZ	2.29	0.45
38:BQ:90:ARG:HB2	38:BQ:94:TYR:HE2	1.82	0.45
1:AA:1432:G:OP2	40:BS:112:ARG:HB2	2.16	0.45
24:BA:533:G:H5'	41:BT:24:TYR:CD2	2.51	0.45
41:BT:33:ARG:O	41:BT:36:ARG:HG3	2.16	0.45
24:BA:446:G:C8	41:BT:3:ARG:NH2	2.83	0.45
24:BA:1249:U:HO2'	41:BT:6:THR:CG2	2.29	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:BV:5:ALA:HB3	43:BV:105:VAL:HG13	1.98	0.45
45:BX:85:VAL:HG12	45:BX:85:VAL:O	2.16	0.45
45:BX:86:ARG:HA	45:BX:91:GLU:HB3	1.98	0.45
46:BY:43:GLU:HA	46:BY:46:LYS:NZ	2.31	0.45
46:BY:80:ARG:N	46:BY:80:ARG:HD2	2.31	0.45
47:BZ:22:GLY:C	47:BZ:38:VAL:HG13	2.37	0.45
32:BK:114:LEU:HD13	32:BK:130:TYR:CD2	2.51	0.45
32:BK:139:GLN:O	32:BK:140:LEU:HG	2.16	0.45
3:AD:55:U:C6	3:AD:55:U:H3'	2.51	0.45
3:AD:55:U:O3'	3:AD:57:G:N7	2.48	0.45
3:AD:63:G:H5'	26:BC:53:ARG:HE	1.81	0.45
24:BA:2136:C:N3	24:BA:2137:C:C5	2.83	0.45
26:BC:22:ILE:HD12	26:BC:190:ARG:HH22	1.80	0.45
24:BA:492:A:H2'	24:BA:492:A:N3	2.30	0.45
2:A1:4:U:H6	2:A1:4:U:O5'	1.99	0.45
1:AA:1027:C:N3	1:AA:1028:C:C5	2.84	0.45
1:AA:1084:G:HO2'	1:AA:1085:U:P	2.39	0.45
1:AA:1099:G:N7	1:AA:1100:C:C5	2.85	0.45
1:AA:1205:U:O2'	5:AF:194:GLY:CA	2.64	0.45
1:AA:1250:A:H4'	11:AL:68:GLY:N	2.31	0.45
1:AA:1265:G:C6	1:AA:1271:G:C6	3.03	0.45
1:AA:1149:C:O2'	1:AA:1280:A:N1	2.43	0.45
1:AA:1319:A:N1	1:AA:1361:G:N2	2.63	0.45
1:AA:928:G:H4'	1:AA:1532:U:H5''	1.97	0.45
1:AA:19:C:O2	1:AA:572:A:C2	2.62	0.45
1:AA:225:C:C2'	1:AA:226:G:O5'	2.64	0.45
1:AA:260:G:C4	1:AA:261:U:N3	2.84	0.45
1:AA:301:G:C2	1:AA:302:G:N9	2.85	0.45
1:AA:440:A:C8	1:AA:442:C:C5	3.04	0.45
1:AA:39:G:N7	1:AA:547:A:C8	2.85	0.45
1:AA:674:G:O2'	1:AA:675:A:H5'	2.16	0.45
1:AA:689:C:O3'	1:AA:705:U:O2'	2.32	0.45
1:AA:706:A:C2'	1:AA:707:C:O5'	2.64	0.45
1:AA:774:G:H3'	1:AA:775:G:H8	1.81	0.45
1:AA:80:G:C3'	1:AA:81:G:H8	2.29	0.45
1:AA:814:A:O2'	1:AA:815:A:H5'	2.16	0.45
1:AA:830:G:C6	1:AA:831:U:C5	3.04	0.45
1:AA:888:G:C2	1:AA:909:A:N6	2.80	0.45
1:AA:961:U:C2'	1:AA:962:C:C5'	2.94	0.45
3:AB:25:C:O2	3:AB:25:C:H2'	2.17	0.45
3:AB:58:A:C6	3:AB:61:C:H1'	2.50	0.45
3:AC:29:G:O2'	3:AC:30:G:H5'	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:136:VAL:CA	4:AE:139:LYS:HZ2	2.30	0.45
4:AE:50:GLU:CG	4:AE:200:ILE:HB	2.47	0.45
5:AF:156:ARG:O	5:AF:157:ILE:C	2.54	0.45
6:AG:31:CYS:O	6:AG:33:MET:CE	2.59	0.45
7:AH:59:GLY:O	7:AH:62:ALA:N	2.50	0.45
9:AJ:47:CYS:O	9:AJ:50:ILE:HB	2.17	0.45
9:AJ:22:LEU:HG	9:AJ:63:LYS:HZ2	1.82	0.45
10:AK:49:GLU:O	10:AK:59:LEU:HD23	2.17	0.45
11:AL:26:VAL:HG13	11:AL:63:ILE:HD13	1.98	0.45
11:AL:67:GLY:C	11:AL:73:GLN:NE2	2.69	0.45
14:AO:26:ALA:HA	14:AO:98:TYR:CE2	2.51	0.45
14:AO:69:TYR:HB3	14:AO:99:HIS:HB3	1.96	0.45
14:AO:85:ILE:HD11	14:AO:99:HIS:H	1.73	0.45
15:AP:81:LEU:O	15:AP:84:ILE:CG1	2.64	0.45
16:AQ:4:LYS:HA	16:AQ:7:ILE:HD11	1.98	0.45
17:AR:41:GLU:O	17:AR:44:LYS:HB2	2.15	0.45
17:AR:71:GLN:HA	17:AR:75:PRO:HB3	1.99	0.45
18:AS:21:VAL:HG21	18:AS:59:TRP:CE2	2.47	0.45
19:AT:59:ILE:HD11	19:AT:71:PHE:C	2.36	0.45
19:AT:59:ILE:HD11	19:AT:71:PHE:CA	2.45	0.45
20:AU:31:LEU:N	20:AU:31:LEU:CD1	2.79	0.45
20:AU:59:SER:O	20:AU:60:GLY:C	2.54	0.45
8:AI:50:TYR:CE1	20:AU:81:PHE:CZ	3.04	0.45
49:B2:55:ARG:CA	49:B2:55:ARG:CZ	2.90	0.45
41:BT:27:LEU:HD11	51:B4:12:SER:HB2	1.98	0.45
52:B5:16:CYS:HB3	52:B5:49:HIS:CE1	2.51	0.45
24:BA:242:G:C8	54:B7:4:MET:HG2	2.46	0.45
24:BA:2358:G:N2	54:B7:52:LYS:HZ1	2.14	0.45
55:B8:20:HIS:N	55:B8:20:HIS:ND1	2.65	0.45
24:BA:1059:G:H1'	33:BL:126:MET:HE2	1.96	0.45
24:BA:111:A:C2	24:BA:112:U:C4	3.05	0.45
24:BA:1178:C:N3	24:BA:1179:C:N4	2.63	0.45
24:BA:1223:C:C5	24:BA:1227:A:N6	2.83	0.45
24:BA:1301:A:C2'	24:BA:1302:A:O5'	2.64	0.45
24:BA:1473:G:O6	24:BA:1519:G:C4	2.69	0.45
24:BA:1491:G:N2	24:BA:1493:C:H41	2.13	0.45
24:BA:1546:C:O5'	24:BA:1546:C:H6	1.99	0.45
24:BA:1651:G:O2'	24:BA:1652:A:C1'	2.64	0.45
24:BA:1661:G:C6	24:BA:1662:C:N4	2.84	0.45
24:BA:1703:G:N2	24:BA:1704:G:C1'	2.78	0.45
24:BA:1793:C:N4	24:BA:1794:U:O4	2.49	0.45
24:BA:1907:G:C5	24:BA:1908:C:C5	3.04	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1835:G:N3	24:BA:1931:U:C2	2.85	0.45
24:BA:1991:U:C3'	24:BA:1991:U:C6	2.99	0.45
24:BA:2016:U:C1'	51:B4:6:VAL:CG1	2.94	0.45
24:BA:579:G:O2'	24:BA:2019:A:OP1	2.34	0.45
24:BA:2082:A:H2'	24:BA:2082:A:N3	2.31	0.45
24:BA:2225:A:C4'	24:BA:2226:C:H6	2.29	0.45
24:BA:2286:A:N6	52:B5:32:ASN:CA	2.78	0.45
24:BA:2289:G:H5'	24:BA:2384:G:C1'	2.39	0.45
24:BA:2319:G:C4'	24:BA:2320:A:OP1	2.44	0.45
24:BA:2325:G:C5	24:BA:2326:C:C5	3.03	0.45
24:BA:2345:G:N2	24:BA:2382:G:OP2	2.49	0.45
24:BA:2400:G:C2	24:BA:2417:C:C4	3.05	0.45
24:BA:242:G:C2'	24:BA:254:G:N1	2.78	0.45
24:BA:2468:G:H5'	37:BP:120:ILE:HD11	1.99	0.45
24:BA:2459:A:N7	24:BA:2493:U:O4	2.49	0.45
24:BA:2500:U:C5'	24:BA:2500:U:H6	2.29	0.45
24:BA:2516:G:C6	24:BA:2517:C:N4	2.84	0.45
24:BA:2550:G:N1	24:BA:2559:C:N3	2.65	0.45
24:BA:2573:C:C3'	24:BA:2573:C:C6	2.99	0.45
24:BA:270(S):G:C2	24:BA:270(T):G:C8	3.04	0.45
24:BA:2776:A:H1'	24:BA:2778:A:H5''	1.98	0.45
24:BA:287:C:C3'	24:BA:288:C:C5	2.98	0.45
24:BA:297:C:H2'	24:BA:298:G:C8	2.52	0.45
24:BA:458:G:O2'	24:BA:469:G:N1	2.47	0.45
24:BA:459:U:C2'	24:BA:460:A:O5'	2.64	0.45
24:BA:627:A:H2'	24:BA:628:G:C1'	2.42	0.45
24:BA:675:A:N7	24:BA:804:A:N1	2.64	0.45
24:BA:858:U:O3'	24:BA:859:G:O4'	2.34	0.45
24:BA:997:G:H5''	41:BT:92:ARG:CD	2.44	0.45
24:BA:996:A:N3	24:BA:997:G:N7	2.64	0.45
29:BF:160:ASN:O	29:BF:163:VAL:CB	2.49	0.45
29:BF:170:LEU:HB3	29:BF:171:PRO:HD3	1.98	0.45
29:BF:7:TYR:N	29:BF:20:LEU:HD22	2.29	0.45
29:BF:35:GLU:N	29:BF:38:ARG:HD2	2.31	0.45
29:BF:39:TRP:CG	29:BF:101:LEU:HG	2.52	0.45
29:BF:43:LYS:HE3	29:BF:99:TYR:H	1.81	0.45
30:BG:113:ARG:O	30:BG:114:ILE:CG2	2.62	0.45
30:BG:124:SER:HG	30:BG:133:LEU:HD23	1.78	0.45
30:BG:72:ARG:O	30:BG:73:ALA:HB2	2.16	0.45
30:BG:77:ILE:O	30:BG:78:SER:O	2.33	0.45
30:BG:87:PRO:C	30:BG:88:ILE:HG13	2.35	0.45
30:BG:92:VAL:O	30:BG:92:VAL:HG12	2.15	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:BH:11:VAL:HG11	31:BH:17:VAL:CG2	2.46	0.45
31:BH:119:GLU:H	31:BH:121:ILE:HG22	1.81	0.45
32:BK:5:LEU:C	32:BK:8:PRO:HD2	2.37	0.45
32:BK:8:PRO:N	32:BK:14:ASP:HA	2.30	0.45
33:BL:106:GLU:HA	33:BL:109:LYS:CD	2.47	0.45
34:BM:15:LEU:HD21	34:BM:137:LYS:HB3	1.94	0.45
34:BM:23:LEU:HB2	34:BM:24:GLY:H	1.44	0.45
34:BM:91:LEU:HA	34:BM:95:PRO:N	2.32	0.45
35:BN:107:ARG:C	35:BN:109:LYS:N	2.65	0.45
35:BN:18:LYS:NZ	35:BN:44:LYS:CD	2.79	0.45
35:BN:34:THR:O	35:BN:37:ASP:HB2	2.16	0.45
35:BN:78:ARG:N	35:BN:78:ARG:NE	2.65	0.45
36:BO:125:VAL:O	36:BO:130:PHE:HZ	1.98	0.45
36:BO:130:PHE:C	36:BO:131:SER:O	2.53	0.45
36:BO:97:PRO:O	36:BO:98:GLU:C	2.53	0.45
37:BP:6:ARG:CD	37:BP:6:ARG:C	2.82	0.45
37:BP:75:THR:C	37:BP:77:LYS:HD2	2.36	0.45
24:BA:2275:C:O2'	37:BP:84:GLY:O	2.33	0.45
37:BP:6:ARG:NH2	37:BP:8:LYS:C	2.64	0.45
38:BQ:5:LYS:CE	38:BQ:5:LYS:CA	2.92	0.45
39:BR:9:ARG:CA	39:BR:12:PHE:CD2	2.99	0.45
24:BA:532:A:N6	41:BT:45:TYR:OH	2.25	0.45
41:BT:52:ARG:C	41:BT:54:LYS:H	2.19	0.45
42:BU:40:LEU:N	42:BU:54:GLY:CA	2.79	0.45
42:BU:56:SER:O	42:BU:57:VAL:HG23	2.16	0.45
42:BU:79:VAL:CG1	42:BU:81:TYR:HD1	2.29	0.45
43:BV:10:VAL:CG2	43:BV:12:ILE:HD11	2.46	0.45
45:BX:74:PRO:HD2	45:BX:76:CYS:O	2.15	0.45
45:BX:81:LYS:CG	45:BX:96:ILE:HG23	2.38	0.45
37:BP:62:GLY:N	46:BY:177:PRO:HA	2.31	0.45
32:BK:114:LEU:H	32:BK:131:LYS:HZ1	1.63	0.45
3:AD:18:G:O6	3:AD:57:G:N1	2.49	0.45
26:BC:61:THR:HA	26:BC:163:PHE:CE2	2.51	0.45
26:BC:8:ARG:NE	26:BC:12:GLU:OE2	2.49	0.45
26:BC:97:GLU:CG	26:BC:100:ILE:HD12	2.46	0.45
14:AO:126:LYS:CD	14:AO:128:ALA:HB3	2.45	0.45
1:AA:800:G:P	1:AA:800:G:H8	2.39	0.45
24:BA:2191:G:N2	24:BA:2192:G:C4	2.83	0.45
12:AM:36:GLY:O	12:AM:38:ILE:N	2.49	0.45
50:B3:49:PHE:N	50:B3:49:PHE:CD1	2.84	0.45
1:AA:1055:A:O2'	1:AA:1056:U:OP1	2.26	0.45
1:AA:1068:G:O6	1:AA:1108:G:N3	2.49	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1114:C:O2'	16:AQ:60:SER:CB	2.65	0.45
1:AA:1176:A:C6	1:AA:1177:G:C6	3.04	0.45
1:AA:1118:C:O4'	1:AA:1179:A:C1'	2.65	0.45
1:AA:1186:G:H4'	11:AL:110:GLU:HG3	1.99	0.45
1:AA:1188:A:N3	1:AA:1188:A:H2'	2.30	0.45
1:AA:1191:A:N3	1:AA:1191:A:C2'	2.79	0.45
1:AA:1287:A:N6	1:AA:1371:G:C4'	2.77	0.45
1:AA:1317:C:C2	16:AQ:16:PHE:CZ	3.04	0.45
1:AA:134:A:H2'	1:AA:135:C:O5'	2.16	0.45
1:AA:1409:C:H2'	1:AA:1410:G:H8	1.81	0.45
1:AA:1429:C:H2'	1:AA:1430:C:C5	2.50	0.45
1:AA:1466:C:C2'	1:AA:1467:G:C8	2.98	0.45
1:AA:1523:G:C6	1:AA:1524:C:C4	3.04	0.45
1:AA:255:G:C1'	19:AT:16:GLN:HB2	2.46	0.45
1:AA:27:G:H8	1:AA:27:G:OP2	1.98	0.45
1:AA:307:C:N4	1:AA:308:C:N4	2.58	0.45
1:AA:415:A:H2'	1:AA:416:G:O4'	2.16	0.45
1:AA:416:G:O6	1:AA:428:G:O6	2.34	0.45
1:AA:450:G:OP1	1:AA:452:A:P	2.74	0.45
1:AA:483:C:C3'	1:AA:483:C:C6	3.00	0.45
1:AA:752:G:O2'	1:AA:753:A:P	2.75	0.45
1:AA:828:A:O2'	1:AA:829:G:O5'	2.27	0.45
1:AA:918:A:O2'	1:AA:919:A:P	2.74	0.45
3:AC:46:G:OP2	3:AC:46:G:H8	1.98	0.45
3:AC:53:G:C2	3:AC:62:C:N3	2.84	0.45
3:AC:74:C:H2'	3:AC:75:C:C4'	2.47	0.45
4:AE:179:LYS:O	4:AE:180:LEU:C	2.53	0.45
4:AE:186:ALA:O	4:AE:201:ILE:CD1	2.64	0.45
4:AE:223:ILE:HA	4:AE:226:ARG:CD	2.46	0.45
4:AE:19:HIS:C	4:AE:39:ILE:HD11	2.37	0.45
5:AF:182:ILE:CD1	5:AF:203:PHE:HD1	2.29	0.45
6:AG:121:VAL:HG11	6:AG:136:PRO:CA	2.45	0.45
6:AG:13:ARG:CA	6:AG:32:ALA:HB2	2.47	0.45
9:AJ:20:ASP:OD1	9:AJ:23:VAL:HG23	2.17	0.45
9:AJ:38:LEU:O	9:AJ:42:ILE:HG13	2.16	0.45
10:AK:28:ALA:HA	10:AK:59:LEU:HD12	1.98	0.45
11:AL:20:ARG:O	11:AL:21:PRO:C	2.53	0.45
11:AL:67:GLY:O	11:AL:68:GLY:C	2.54	0.45
11:AL:69:GLY:O	11:AL:70:LYS:C	2.55	0.45
11:AL:75:ASP:O	11:AL:78:LYS:N	2.50	0.45
11:AL:7:THR:HG21	11:AL:9:ARG:NH1	2.30	0.45
14:AO:86:ARG:HD3	14:AO:101:VAL:CG1	2.47	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AO:48:PRO:CD	14:AO:49:ASN:H	2.29	0.45
15:AP:87:TYR:C	15:AP:87:TYR:HD2	2.20	0.45
16:AQ:28:GLY:O	16:AQ:29:ARG:C	2.54	0.45
17:AR:21:ASP:OD2	17:AR:24:SER:HB3	2.17	0.45
19:AT:101:ARG:HG2	19:AT:102:GLY:H	1.82	0.45
21:AV:36:ARG:HB2	21:AV:71:LEU:CB	2.45	0.45
22:AW:40:ALA:HB2	22:AW:55:ILE:HG22	1.95	0.45
22:AW:63:ILE:HG23	22:AW:72:LEU:CD1	2.47	0.45
23:AX:23:PRO:C	23:AX:25:LYS:N	2.69	0.45
49:B2:15:TYR:O	49:B2:20:LYS:HD2	2.16	0.45
49:B2:23:LEU:HD12	49:B2:50:VAL:HG21	1.97	0.45
50:B3:59:PHE:O	50:B3:61:ARG:N	2.49	0.45
51:B4:34:PRO:CG	51:B4:40:LYS:HZ1	2.29	0.45
52:B5:27:LYS:CE	52:B5:29:ASN:HD21	2.29	0.45
54:B7:15:LYS:HZ1	54:B7:64:TYR:HD2	1.63	0.45
24:BA:1194:A:C6	24:BA:1195:G:C5	3.05	0.45
24:BA:1202:C:N4	24:BA:1241:A:N7	2.65	0.45
24:BA:1361:G:C4	24:BA:1362:C:C5	3.04	0.45
24:BA:1453:A:C8	38:BQ:73:VAL:HG11	2.51	0.45
24:BA:1556:C:O2'	24:BA:1557:C:H5'	2.16	0.45
24:BA:1410:G:C2	24:BA:1593:G:C2	3.04	0.45
24:BA:163:U:C5	24:BA:171:G:H1'	2.51	0.45
24:BA:1657:C:C2'	24:BA:1658:C:O4'	2.62	0.45
24:BA:1667:G:O3'	35:BN:7:TYR:CZ	2.68	0.45
24:BA:174:C:C4	24:BA:175:G:N7	2.85	0.45
24:BA:1827:C:H5'	24:BA:1971:A:H4'	1.97	0.45
24:BA:199:A:N1	24:BA:2433:A:N3	2.63	0.45
24:BA:1999:C:O2'	24:BA:2000:G:H5'	2.17	0.45
24:BA:2073:C:C3'	24:BA:2074:U:H5'	2.46	0.45
24:BA:2218:G:C4	24:BA:2219:G:C8	3.04	0.45
24:BA:2246:G:N3	24:BA:2247:A:C8	2.84	0.45
24:BA:2345:G:N2	24:BA:2381:C:H3'	2.31	0.45
24:BA:2346:A:H5'	24:BA:2383:G:C4'	2.46	0.45
24:BA:2414:G:N1	24:BA:2415:G:N7	2.65	0.45
24:BA:2432:A:N7	24:BA:2433:A:C6	2.85	0.45
24:BA:2491:U:H6	24:BA:2492:U:P	2.33	0.45
24:BA:249:C:C2'	24:BA:250:G:OP2	2.65	0.45
24:BA:2510:C:H5''	24:BA:2511:U:OP2	2.17	0.45
24:BA:2633:G:H8	24:BA:2633:G:O5'	1.98	0.45
24:BA:2659:G:C1'	24:BA:2661:G:OP2	2.64	0.45
24:BA:2677:G:HO2'	24:BA:2678:C:H5'	1.73	0.45
24:BA:2689:U:H4'	24:BA:2690:C:O5'	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:25:U:C2	24:BA:26:G:N7	2.84	0.45
24:BA:270(M):U:O3'	24:BA:270(N):G:H4'	2.16	0.45
24:BA:2523:G:O2'	24:BA:2765:A:N7	2.43	0.45
24:BA:281:G:H2'	24:BA:282:A:OP2	2.16	0.45
24:BA:2876:G:N3	24:BA:2877:G:C8	2.84	0.45
24:BA:2892:A:H2'	24:BA:2893:G:C1'	2.45	0.45
24:BA:2629:A:N6	24:BA:2895:U:O2	2.50	0.45
24:BA:311:A:H2	24:BA:331:A:H5''	1.80	0.45
24:BA:450:G:H3'	24:BA:451:C:C5'	2.47	0.45
24:BA:511:U:C5	24:BA:512:G:C4	3.03	0.45
24:BA:58:G:H2'	24:BA:73:A:C2	2.44	0.45
24:BA:596:G:C6	24:BA:597:U:N3	2.85	0.45
24:BA:610:C:H2'	24:BA:611:C:H6	1.80	0.45
24:BA:668:G:C6	24:BA:670:A:C5	3.04	0.45
24:BA:699:A:N6	24:BA:734:A:C8	2.85	0.45
24:BA:749:C:C2	24:BA:1618:A:C5	3.04	0.45
24:BA:826:U:N3	24:BA:828:U:H6	2.15	0.45
24:BA:972:G:C8	24:BA:973:A:C8	3.04	0.45
24:BA:994:C:H5''	24:BA:995:C:OP1	2.17	0.45
25:BB:24:G:C5'	25:BB:25:A:H5'	2.45	0.45
25:BB:30:C:C5	25:BB:31:C:C6	3.05	0.45
25:BB:37:C:O2	25:BB:49:C:H5'	2.16	0.45
25:BB:99:A:C2	25:BB:100:G:N9	2.85	0.45
27:BD:106:ILE:HD12	27:BD:192:THR:HG23	1.93	0.45
27:BD:200:ASP:O	27:BD:201:HIS:C	2.54	0.45
28:BE:163:GLU:OE1	28:BE:163:GLU:N	2.50	0.45
28:BE:27:LEU:HD13	28:BE:76:ARG:HH12	1.81	0.45
28:BE:40:GLU:CA	28:BE:40:GLU:OE2	2.64	0.45
29:BF:34:TRP:CD1	36:BO:8:PRO:O	2.69	0.45
29:BF:93:LYS:O	29:BF:94:PRO:C	2.54	0.45
30:BG:103:LEU:HD11	30:BG:107:LEU:HD23	1.98	0.45
30:BG:128:ARG:NH1	30:BG:162:THR:HA	2.28	0.45
30:BG:18:GLU:HB3	30:BG:19:LEU:HD12	1.98	0.45
31:BH:42:ARG:CA	31:BH:42:ARG:NE	2.71	0.45
32:BK:33:ARG:HB3	32:BK:35:LEU:HD21	1.97	0.45
33:BL:117:THR:O	33:BL:118:THR:CB	2.64	0.45
33:BL:67:PHE:CD2	33:BL:68:VAL:HG22	2.50	0.45
34:BM:99:LEU:CD1	34:BM:103:VAL:HG11	2.46	0.45
34:BM:109:LYS:HE3	34:BM:111:PRO:CD	2.46	0.45
34:BM:23:LEU:HD23	34:BM:61:ARG:O	2.12	0.45
35:BN:112:MET:HA	35:BN:115:VAL:HG23	1.98	0.45
35:BN:59:LYS:CB	35:BN:85:VAL:HA	2.46	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:126:PRO:HD2	37:BP:127:ILE:HD11	1.98	0.45
37:BP:130:LYS:HZ1	37:BP:132:VAL:CG2	2.29	0.45
24:BA:2820:A:OP1	38:BQ:5:LYS:HG2	2.16	0.45
39:BR:39:ILE:HD11	39:BR:76:LYS:CE	2.46	0.45
39:BR:49:VAL:HG21	39:BR:80:LEU:CG	2.47	0.45
40:BS:103:ARG:O	40:BS:105:LEU:C	2.55	0.45
40:BS:111:ARG:HA	40:BS:114:LEU:CG	2.47	0.45
40:BS:58:ASN:CA	40:BS:61:PHE:CE2	2.99	0.45
40:BS:72:VAL:HG12	40:BS:73:GLU:N	2.31	0.45
40:BS:7:ILE:O	40:BS:10:VAL:N	2.49	0.45
41:BT:11:ARG:CG	41:BT:12:ARG:N	2.80	0.45
41:BT:88:ILE:N	42:BU:52:VAL:CG2	2.71	0.45
44:BW:83:VAL:HG21	44:BW:86:GLY:HA2	1.97	0.45
45:BX:1:MET:HE2	45:BX:67:LEU:HD23	1.99	0.45
45:BX:31:LEU:CB	45:BX:32:PRO:CD	2.88	0.45
45:BX:49:VAL:HG23	45:BX:52:SER:H	1.82	0.45
45:BX:54:LYS:O	45:BX:56:PRO:HD3	2.16	0.45
45:BX:6:HIS:CG	45:BX:33:LYS:NZ	2.84	0.45
46:BY:138:GLU:O	46:BY:139:VAL:HG22	2.16	0.45
46:BY:163:LEU:HD12	46:BY:163:LEU:N	2.30	0.45
46:BY:45:ASP:O	46:BY:47:VAL:N	2.49	0.45
46:BY:66:SER:O	46:BY:67:LEU:HD23	2.17	0.45
24:BA:2129:C:OP2	26:BC:6:ARG:HG2	2.17	0.45
24:BA:2150:U:C2	24:BA:2151:G:C8	3.05	0.45
26:BC:93:TYR:CD1	26:BC:107:TRP:HZ2	2.34	0.45
26:BC:189:ILE:HD13	26:BC:224:ILE:HD13	1.96	0.45
24:BA:2129:C:P	26:BC:6:ARG:HG3	2.56	0.45
26:BC:87:GLU:HG3	26:BC:94:VAL:CB	2.46	0.45
26:BC:90:GLY:C	26:BC:153:ILE:HG22	2.36	0.45
3:AD:28:G:H2'	3:AD:29:G:C8	2.35	0.45
24:BA:273(E):U:N1	24:BA:363(B):G:N2	2.63	0.45
24:BA:363(B):G:O2'	24:BA:363(C):G:O5'	2.31	0.45
1:AA:1018:C:H2'	1:AA:1019:C:O4'	2.16	0.45
24:BA:489:G:C4	24:BA:491:G:C8	3.04	0.45
24:BA:2183:C:C2'	24:BA:2183:C:O2	2.64	0.45
1:AA:1537:U:H2'	1:AA:1538:C:H6	1.81	0.45
2:A1:29:G:C3'	2:A1:30:U:C5'	2.92	0.45
2:A1:35:U:H5	2:A1:35:U:OP2	2.00	0.45
1:AA:1003:G:C8	1:AA:1003:G:O5'	2.67	0.45
1:AA:102:G:N3	1:AA:151:A:H2	2.14	0.45
1:AA:1061:G:N2	1:AA:1197:G:C4	2.83	0.45
1:AA:1076:C:C2	1:AA:1077:G:C8	3.04	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1082:G:O2'	1:AA:1083:U:H5'	2.16	0.45
1:AA:1231:G:H2'	1:AA:1232:U:C6	2.50	0.45
1:AA:1343:G:H5'	11:AL:124:GLN:HA	1.97	0.45
1:AA:1353:G:OP2	23:AX:3:LYS:NZ	2.47	0.45
1:AA:136:C:H4'	18:AS:65:GLN:OE1	2.16	0.45
1:AA:1401:G:C2'	1:AA:1402:C:H5'	2.46	0.45
1:AA:1477:C:N4	1:AA:1478:C:N4	2.64	0.45
1:AA:1496:C:H6	1:AA:1496:C:O5'	2.00	0.45
1:AA:791:G:N2	1:AA:1497:G:H4'	2.31	0.45
1:AA:151:A:O2'	1:AA:152:A:H5'	2.16	0.45
1:AA:251:G:O4'	1:AA:252:U:C5	2.70	0.45
1:AA:261:U:H5	22:AW:79:ARG:NH1	2.15	0.45
1:AA:299:G:C2	1:AA:300:A:C6	3.05	0.45
1:AA:50:A:N1	1:AA:361:G:O4'	2.50	0.45
1:AA:539:A:C6	1:AA:540:G:C6	3.04	0.45
1:AA:564:C:OP1	14:AO:15:ARG:NE	2.50	0.45
1:AA:710:G:C2	1:AA:711:G:C8	3.04	0.45
1:AA:737:A:O2'	1:AA:738:C:C5'	2.65	0.45
1:AA:833:U:C2'	1:AA:834:C:H6	2.30	0.45
1:AA:902:G:H2'	1:AA:903:G:C8	2.50	0.45
1:AA:934:C:N4	1:AA:939:G:N1	2.64	0.45
1:AA:966:G:O2'	1:AA:967:C:O5'	2.34	0.45
1:AA:99:C:H2'	1:AA:101:A:C8	2.52	0.45
3:AC:19:G:H5''	3:AC:20:U:O4	2.16	0.45
3:AC:34:G:OP1	3:AC:34:G:H8	2.00	0.45
3:AC:9:A:H4'	3:AC:10:G:OP2	2.16	0.45
4:AE:109:SER:O	4:AE:111:ARG:N	2.49	0.45
4:AE:115:LEU:HB2	4:AE:145:LEU:HD21	1.97	0.45
4:AE:28:PHE:HE1	4:AE:31:TYR:O	1.99	0.45
4:AE:56:ARG:NH1	4:AE:56:ARG:CB	2.54	0.45
4:AE:92:TYR:C	4:AE:92:TYR:CD2	2.87	0.45
5:AF:15:THR:CB	5:AF:181:ASN:HA	2.46	0.45
5:AF:186:PHE:CD1	5:AF:187:ALA:N	2.85	0.45
5:AF:21:ARG:HB2	5:AF:58:GLU:CG	2.40	0.45
5:AF:30:ARG:HG2	5:AF:30:ARG:HH11	1.81	0.45
6:AG:187:ARG:CG	6:AG:188:LEU:N	2.79	0.45
6:AG:24:GLU:C	6:AG:24:GLU:OE2	2.55	0.45
7:AH:107:ARG:NH1	7:AH:107:ARG:HB2	2.29	0.45
7:AH:5:ASP:HB3	7:AH:6:PHE:H	1.61	0.45
7:AH:79:GLU:HA	7:AH:91:LEU:HD23	1.98	0.45
9:AJ:5:ARG:HB3	9:AJ:5:ARG:CZ	2.45	0.45
10:AK:75:ARG:HA	10:AK:76:PRO:HD3	1.70	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AL:46:ALA:HB1	11:AL:77:ILE:HG22	1.97	0.45
12:AM:33:GLN:O	12:AM:34:VAL:HB	2.17	0.45
12:AM:70:ARG:HA	12:AM:70:ARG:HD3	1.79	0.45
14:AO:79:GLU:H	14:AO:79:GLU:HG3	1.60	0.45
14:AO:88:GLY:O	14:AO:99:HIS:CD2	2.70	0.45
16:AQ:23:ARG:CA	16:AQ:33:VAL:HG21	2.46	0.45
1:AA:1048:G:OP1	16:AQ:3:ARG:HD2	2.17	0.45
1:AA:750:G:O2'	17:AR:23:GLY:O	2.35	0.45
17:AR:24:SER:O	17:AR:25:THR:C	2.55	0.45
18:AS:29:ASP:O	18:AS:30:GLY:O	2.35	0.45
18:AS:1:MET:CB	18:AS:3:LYS:HZ1	2.29	0.45
21:AV:24:ALA:C	21:AV:26:GLY:N	2.70	0.45
22:AW:47:GLY:O	22:AW:49:ALA:N	2.45	0.45
22:AW:91:LEU:C	22:AW:93:GLU:H	2.20	0.45
48:B1:20:VAL:HB	48:B1:55:LEU:HD23	1.98	0.45
49:B2:23:LEU:CA	49:B2:28:LEU:CD1	2.90	0.45
49:B2:30:ARG:O	49:B2:32:GLN:N	2.49	0.45
49:B2:40:THR:N	49:B2:44:ARG:HG3	2.31	0.45
50:B3:40:HIS:HB3	50:B3:41:PRO:HD2	1.95	0.45
50:B3:7:PRO:HG2	50:B3:60:GLN:CD	2.36	0.45
51:B4:34:PRO:CD	51:B4:40:LYS:HD2	2.29	0.45
52:B5:17:LYS:HZ3	52:B5:50:ARG:HA	1.81	0.45
53:B6:19:ARG:O	53:B6:20:ALA:C	2.53	0.45
54:B7:23:VAL:HA	54:B7:47:LYS:O	2.16	0.45
54:B7:26:LYS:CD	54:B7:45:GLY:H	2.29	0.45
54:B7:54:GLU:O	54:B7:55:ALA:C	2.55	0.45
24:BA:1069:A:N7	24:BA:1073:A:N7	2.65	0.45
24:BA:107:C:C5'	24:BA:293:U:O4'	2.65	0.45
24:BA:1101:U:O2	24:BA:1101:U:H2'	2.16	0.45
24:BA:1128:A:N1	24:BA:1129:A:C6	2.84	0.45
24:BA:1131:G:C2	24:BA:1132:A:C5	3.05	0.45
24:BA:1139:G:H5'	34:BM:24:GLY:HA3	1.98	0.45
24:BA:1210:A:H5''	24:BA:1211:U:O5'	2.16	0.45
24:BA:1264:G:C6	24:BA:1265:A:C6	3.03	0.45
24:BA:1325:G:H21	43:BV:86:LEU:CD1	2.18	0.45
24:BA:1342:A:C8	24:BA:1342:A:O5'	2.69	0.45
24:BA:1339:G:C1'	24:BA:1393:A:C2	2.99	0.45
24:BA:1529:A:H2'	24:BA:1530:G:O4'	2.17	0.45
24:BA:154:G:H1	24:BA:173:G:H1	1.61	0.45
24:BA:1781:C:C2'	24:BA:1782:C:OP2	2.65	0.45
24:BA:1783:A:C5'	24:BA:1784:A:OP1	2.57	0.45
24:BA:48:G:C2	24:BA:178:G:C6	3.05	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1804:C:C2'	24:BA:1805:U:O5'	2.64	0.45
24:BA:1799:G:C5	24:BA:1819:A:N7	2.84	0.45
24:BA:1829:A:N3	24:BA:1830:C:O4'	2.50	0.45
24:BA:2025:C:C2	24:BA:2026:C:C5	3.04	0.45
24:BA:2027:G:N2	24:BA:2028:U:H1'	2.32	0.45
24:BA:2092:U:OP1	24:BA:2199:A:O2'	2.30	0.45
24:BA:2194:G:C3'	24:BA:2195:C:H5	2.30	0.45
24:BA:2198:A:H2	24:BA:2225:A:H62	1.64	0.45
24:BA:2205:C:H2'	24:BA:2206:C:C6	2.52	0.45
24:BA:2239:G:C3'	24:BA:2240:C:C5'	2.87	0.45
24:BA:223:A:C2	24:BA:407:G:N3	2.85	0.45
24:BA:2244:U:O2	24:BA:2244:U:H2'	2.16	0.45
24:BA:2260:C:H2'	24:BA:2261:C:H6	1.80	0.45
24:BA:2309:A:N6	30:BG:80:PHE:CE1	2.85	0.45
24:BA:2323:G:N2	24:BA:2324:C:N3	2.64	0.45
24:BA:2346:A:OP2	24:BA:2381:C:O2'	2.32	0.45
24:BA:22:C:H2'	24:BA:23:G:O5'	2.17	0.45
24:BA:2431:U:OP2	24:BA:2432:A:P	2.75	0.45
24:BA:2439:A:N3	24:BA:2439:A:H2'	2.32	0.45
24:BA:2482:G:N7	24:BA:2483:C:C5	2.84	0.45
24:BA:2484:G:O2'	24:BA:2485:G:H5'	2.17	0.45
24:BA:2032:G:H22	24:BA:2499:C:N4	2.14	0.45
24:BA:2533:A:H5''	24:BA:2665:A:C5'	2.36	0.45
24:BA:2553:G:N7	24:BA:2583:G:C4'	2.67	0.45
24:BA:2606:C:C2	24:BA:2607:G:N7	2.85	0.45
24:BA:2588:G:C6	24:BA:2607:G:O6	2.70	0.45
24:BA:2745:C:N4	24:BA:2746:U:O4	2.49	0.45
24:BA:2756:U:O2'	24:BA:2757:A:H5''	2.16	0.45
24:BA:2776:A:N7	24:BA:2781:A:C6	2.84	0.45
24:BA:280:C:C5	24:BA:283:A:N7	2.84	0.45
24:BA:2834:G:C4	24:BA:2879:C:N4	2.85	0.45
24:BA:2836:U:C6	24:BA:2883:A:N6	2.84	0.45
24:BA:308:G:N2	24:BA:309:G:O2'	2.50	0.45
24:BA:323:G:OP2	24:BA:340:A:N1	2.49	0.45
24:BA:348:G:H2'	24:BA:349:G:C8	2.48	0.45
24:BA:383:U:O2	24:BA:385:C:N4	2.43	0.45
24:BA:416:C:C3'	24:BA:416:C:C6	2.99	0.45
24:BA:573:G:H2'	24:BA:574:C:H3'	1.97	0.45
24:BA:662:G:H2'	24:BA:663:G:C8	2.51	0.45
24:BA:686:G:O6	53:B6:12:ARG:NE	2.50	0.45
24:BA:692:C:HO2'	24:BA:693:C:H5'	1.82	0.45
24:BA:727:A:H61	24:BA:729:G:H1	1.63	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:836:G:C5	24:BA:837:C:C5	3.05	0.45
24:BA:955:C:N4	24:BA:956:G:C2	2.85	0.45
25:BB:104:A:H3'	25:BB:105:G:O4'	2.16	0.45
25:BB:49:C:C2	25:BB:50:G:C8	3.05	0.45
27:BD:208:LYS:HE2	27:BD:211:ARG:HG2	1.98	0.45
27:BD:257:LEU:HD23	27:BD:257:LEU:HA	1.61	0.45
27:BD:260:ARG:HG3	27:BD:260:ARG:HH11	1.78	0.45
27:BD:181:GLU:CG	27:BD:268:ARG:NE	2.79	0.45
27:BD:61:LEU:HB3	27:BD:62:TYR:H	1.44	0.45
27:BD:89:SER:OG	27:BD:158:ALA:CB	2.56	0.45
24:BA:2052:G:C8	28:BE:150:VAL:HG23	2.52	0.45
28:BE:103:ASP:HA	28:BE:170:LEU:HD21	1.98	0.45
28:BE:8:LYS:HD3	28:BE:9:VAL:CB	2.47	0.45
29:BF:3:GLU:O	29:BF:3:GLU:CD	2.54	0.45
29:BF:80:ALA:O	29:BF:83:PHE:HD2	2.00	0.45
30:BG:42:GLY:O	30:BG:43:LEU:O	2.34	0.45
30:BG:44:GLY:HA3	30:BG:88:ILE:CG2	2.46	0.45
30:BG:56:ALA:O	30:BG:68:PRO:HD2	2.17	0.45
30:BG:95:ARG:HG3	30:BG:95:ARG:O	2.16	0.45
31:BH:105:LEU:CD1	31:BH:113:VAL:HG11	2.45	0.45
31:BH:60:ARG:HD2	31:BH:61:HIS:CD2	2.52	0.45
31:BH:85:LYS:N	31:BH:133:VAL:O	2.49	0.45
32:BK:4:ILE:HD11	32:BK:39:ALA:HA	1.97	0.45
33:BL:72:PRO:CD	33:BL:111:LYS:HE3	2.46	0.45
33:BL:117:THR:O	33:BL:118:THR:CG2	2.64	0.45
34:BM:99:LEU:O	34:BM:100:GLU:C	2.53	0.45
34:BM:23:LEU:HD23	34:BM:23:LEU:H	1.82	0.45
34:BM:34:LEU:HD21	34:BM:120:LEU:CD1	2.46	0.45
35:BN:18:LYS:CE	35:BN:44:LYS:CD	2.82	0.45
35:BN:47:ILE:HD12	35:BN:52:VAL:HG13	1.95	0.45
36:BO:123:LEU:H	36:BO:138:LEU:HB2	1.82	0.45
37:BP:27:VAL:HG12	37:BP:102:VAL:HG21	1.99	0.45
37:BP:51:ARG:HD3	37:BP:52:VAL:HG23	1.97	0.45
39:BR:57:LYS:HD3	39:BR:57:LYS:C	2.37	0.45
39:BR:57:LYS:NZ	39:BR:62:LYS:CG	2.79	0.45
40:BS:63:VAL:C	40:BS:64:ARG:NH1	2.69	0.45
35:BN:122:LEU:HA	40:BS:71:GLY:CA	2.47	0.45
24:BA:2848:G:C8	40:BS:99:LEU:HD13	2.47	0.45
41:BT:30:LYS:CD	41:BT:30:LYS:H	2.27	0.45
41:BT:52:ARG:CB	41:BT:55:ARG:HD3	2.46	0.45
41:BT:49:HIS:CA	41:BT:52:ARG:CZ	2.85	0.45
42:BU:5:VAL:O	42:BU:6:LYS:HB2	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:564:C:OP1	42:BU:80:GLN:HB3	2.16	0.45
43:BV:14:PRO:O	43:BV:16:LYS:NZ	2.49	0.45
44:BW:18:TYR:CZ	44:BW:96:ILE:HG12	2.51	0.45
44:BW:84:ALA:H	44:BW:85:PRO:CD	2.29	0.45
46:BY:145:GLU:OE2	46:BY:180:VAL:HG11	2.17	0.45
47:BZ:32:ARG:O	47:BZ:35:ASN:CB	2.58	0.45
24:BA:856:C:O4'	47:BZ:69:PHE:HD1	1.99	0.45
32:BK:58:LEU:HA	32:BK:61:ARG:HG3	1.99	0.45
32:BK:96:ASP:O	32:BK:97:ILE:C	2.54	0.45
24:BA:2175:C:N3	24:BA:2176:A:N7	2.64	0.45
26:BC:114:VAL:O	26:BC:114:VAL:HG23	2.17	0.45
24:BA:182:A:O2'	24:BA:183:C:C5'	2.64	0.45
24:BA:1511:A:C2'	24:BA:1512:G:C5'	2.88	0.45
3:AD:39:U:H2'	3:AD:40:C:H6	1.74	0.45
18:AS:68:ASP:C	18:AS:70:ALA:N	2.69	0.45
24:BA:131:G:C2	24:BA:132:G:N7	2.84	0.45
28:BE:15:PHE:O	28:BE:16:ARG:O	2.33	0.45
31:BH:20:ALA:HB3	31:BH:21:PRO:CD	2.46	0.45
1:AA:1108:G:N7	1:AA:1109:C:C5	2.85	0.45
1:AA:1181:G:O3'	1:AA:1184:G:C5'	2.65	0.45
1:AA:1213:A:N6	1:AA:1215:G:N2	2.65	0.45
1:AA:1263:C:H2'	1:AA:1264:C:C5	2.50	0.45
1:AA:1296:C:C5	1:AA:1297:C:N4	2.84	0.45
1:AA:1305:G:OP1	23:AX:2:GLY:N	2.50	0.45
1:AA:1316:G:C4	1:AA:1318:A:OP2	2.70	0.45
1:AA:1343:G:C5	1:AA:1344:C:C4	3.04	0.45
1:AA:1251:A:H4'	1:AA:1370:G:H4'	1.99	0.45
1:AA:1477:C:C4	1:AA:1478:C:C5	3.03	0.45
1:AA:1484:C:H2'	1:AA:1485:U:C5'	2.47	0.45
1:AA:1533:C:H2'	1:AA:1534:A:O5'	2.15	0.45
1:AA:183:G:H2'	1:AA:184:G:O4'	2.17	0.45
1:AA:275:G:C2	1:AA:276:G:C8	3.04	0.45
1:AA:282:A:H2'	1:AA:282:A:N3	2.29	0.45
1:AA:321:A:H2'	1:AA:322:C:H6	1.81	0.45
1:AA:425:G:C2	1:AA:426:G:C8	3.05	0.45
1:AA:468:A:N6	1:AA:474:G:C6	2.84	0.45
1:AA:523:A:O2'	1:AA:525:C:H5	1.98	0.45
1:AA:571:U:H5'	1:AA:572:A:OP2	2.17	0.45
1:AA:61:G:C8	1:AA:62:U:C5	3.05	0.45
1:AA:640:A:C5	1:AA:641:U:C6	3.04	0.45
1:AA:714:G:H1'	1:AA:777:A:C5	2.51	0.45
1:AA:792:A:O2'	1:AA:793:U:H5''	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:18:C:N4	1:AA:918:A:H61	2.13	0.45
1:AA:954:G:H2'	1:AA:955:U:H6	1.80	0.45
1:AA:995:C:C2'	16:AQ:4:LYS:HE2	2.46	0.45
4:AE:58:ILE:HB	4:AE:221:LEU:HG	1.98	0.45
5:AF:172:ARG:CB	5:AF:172:ARG:CZ	2.93	0.45
6:AG:114:ARG:CG	6:AG:114:ARG:NH1	2.76	0.45
6:AG:119:GLN:CG	6:AG:123:HIS:CE1	3.00	0.45
7:AH:35:GLY:N	7:AH:112:LEU:CD1	2.79	0.45
7:AH:114:GLY:C	7:AH:115:VAL:HG13	2.36	0.45
7:AH:145:LYS:HA	7:AH:148:VAL:HG21	1.94	0.45
7:AH:61:TYR:O	7:AH:65:ASN:N	2.38	0.45
8:AI:47:ARG:HA	8:AI:57:GLN:HA	1.97	0.45
9:AJ:147:ALA:C	9:AJ:149:ARG:H	2.19	0.45
10:AK:102:ARG:HE	10:AK:105:ARG:HD2	1.81	0.45
10:AK:110:ALA:HB3	10:AK:121:ASP:OD1	2.16	0.45
10:AK:137:VAL:HG12	10:AK:138:TRP:H	1.82	0.45
10:AK:19:VAL:CG1	10:AK:21:LYS:HE3	2.46	0.45
10:AK:68:ARG:O	10:AK:69:ARG:HB3	2.16	0.45
10:AK:6:ILE:HD12	10:AK:85:ARG:NH1	2.31	0.45
11:AL:119:ALA:O	11:AL:120:ARG:CB	2.64	0.45
11:AL:49:PRO:CB	11:AL:82:ALA:HB2	2.42	0.45
14:AO:36:VAL:HA	14:AO:82:VAL:HA	1.99	0.45
15:AP:40:ASN:HB3	15:AP:43:THR:HG23	1.98	0.45
15:AP:48:LEU:HD13	15:AP:53:VAL:CG2	2.40	0.45
17:AR:60:VAL:HA	17:AR:63:ARG:CG	2.47	0.45
17:AR:65:ARG:HB3	17:AR:65:ARG:CZ	2.46	0.45
17:AR:79:ARG:HB3	17:AR:79:ARG:NH1	2.31	0.45
13:AN:84:VAL:CG2	20:AU:88:LYS:NZ	2.80	0.45
21:AV:18:LYS:CE	21:AV:22:LEU:HD12	2.46	0.45
22:AW:43:LEU:HA	22:AW:43:LEU:HD23	1.73	0.45
48:B1:64:ARG:HD3	48:B1:64:ARG:HA	1.67	0.45
49:B2:31:LEU:HD12	49:B2:32:GLN:CD	2.37	0.45
49:B2:41:PRO:HA	49:B2:44:ARG:CZ	2.47	0.45
24:BA:1263:U:C3'	51:B4:10:LYS:HD3	2.46	0.45
51:B4:15:ARG:O	51:B4:17:ASP:N	2.50	0.45
51:B4:4:HIS:O	51:B4:4:HIS:CD2	2.69	0.45
54:B7:22:VAL:O	54:B7:23:VAL:HG23	2.15	0.45
54:B7:52:LYS:HB2	54:B7:52:LYS:NZ	2.31	0.45
24:BA:1076:C:H1'	33:BL:90:LYS:HE2	1.98	0.45
24:BA:1196:C:H1'	24:BA:1226:G:H1'	1.98	0.45
24:BA:1203:G:N7	24:BA:1240:U:C4	2.85	0.45
24:BA:1275:A:N7	24:BA:1296:G:C1'	2.76	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1298:C:OP2	24:BA:1639:U:OP2	2.35	0.45
24:BA:1363:C:C2	24:BA:1369:G:C6	3.04	0.45
24:BA:1388:G:C4	24:BA:1389:G:C8	3.05	0.45
24:BA:1407:C:OP2	24:BA:1407:C:H3'	2.16	0.45
24:BA:1459:G:N3	24:BA:1459:G:H2'	2.32	0.45
24:BA:1471:A:OP2	24:BA:1472:A:C2	2.66	0.45
24:BA:1536:A:C2	24:BA:1537:C:C2	3.05	0.45
24:BA:1438:U:N3	24:BA:1553:A:N6	2.61	0.45
24:BA:14:A:C8	24:BA:15:G:C8	3.05	0.45
24:BA:749:C:C5	24:BA:1618:A:N6	2.85	0.45
24:BA:1670:C:H2'	24:BA:1671:U:C5'	2.46	0.45
24:BA:1686:C:O2	24:BA:1686:C:H2'	2.15	0.45
24:BA:1686:C:N4	24:BA:1703:G:O6	2.49	0.45
24:BA:172:C:C5	24:BA:173:G:N7	2.84	0.45
24:BA:1789:A:H4'	27:BD:222:ARG:NH1	2.31	0.45
24:BA:1919:A:H2'	24:BA:1920:C:H5'	1.98	0.45
24:BA:1957:C:C2'	24:BA:1958:C:O5'	2.65	0.45
24:BA:2040:C:N3	24:BA:2041:U:C5	2.85	0.45
24:BA:2051:A:N3	24:BA:2052:G:N7	2.65	0.45
24:BA:2080:G:O2'	24:BA:2081:C:C5'	2.64	0.45
24:BA:2208:U:C2	24:BA:2217:G:C6	3.05	0.45
24:BA:2482:G:C2	24:BA:2483:C:C1'	3.00	0.45
24:BA:2532:G:C8	24:BA:2533:A:N7	2.85	0.45
24:BA:2572:A:C5'	24:BA:2573:C:OP1	2.65	0.45
24:BA:2582:G:C5'	24:BA:2582:G:C8	2.98	0.45
24:BA:270:A:C5	24:BA:270(A):A:C8	3.05	0.45
24:BA:2729:G:H2'	24:BA:2730:C:H5'	1.97	0.45
24:BA:2822:G:H5''	28:BE:159:HIS:CE1	2.52	0.45
24:BA:285:C:C4	24:BA:286:C:N4	2.84	0.45
24:BA:317:G:C2	24:BA:318:C:C6	3.05	0.45
24:BA:365:C:C2	24:BA:366:C:C5	3.05	0.45
24:BA:236:C:C4'	24:BA:431:U:H1'	2.46	0.45
24:BA:447:A:O2'	24:BA:448:U:H5'	2.17	0.45
24:BA:457:A:H4'	24:BA:459:U:O2	2.17	0.45
24:BA:481:G:N2	24:BA:507:A:C4	2.85	0.45
24:BA:507:A:H4'	24:BA:509:C:C6	2.51	0.45
24:BA:50:U:C6	24:BA:50:U:C3'	2.99	0.45
24:BA:539:G:C2	24:BA:540:G:N7	2.84	0.45
24:BA:565:C:O2'	24:BA:1253:A:C2	2.70	0.45
24:BA:573:G:C2'	24:BA:574:C:H5''	2.46	0.45
24:BA:624:C:OP2	36:BO:105:LEU:HD22	2.16	0.45
24:BA:672:C:O2	24:BA:673:C:C5	2.70	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:705:A:N7	24:BA:727:A:N7	2.64	0.45
24:BA:744:G:H2'	24:BA:745:G:H8	1.78	0.45
24:BA:76:C:C2'	24:BA:76:C:O2	2.64	0.45
24:BA:806:C:H2'	24:BA:807:U:C5	2.51	0.45
24:BA:835:A:N6	24:BA:836:G:C6	2.85	0.45
24:BA:974:G:H5'	24:BA:1187:G:O2'	2.17	0.45
25:BB:43:C:C2	25:BB:45:A:C8	3.05	0.45
25:BB:66:A:H2	25:BB:108:C:C6	2.33	0.45
25:BB:9:G:C2	25:BB:10:C:C5	3.04	0.45
27:BD:118:VAL:O	27:BD:119:ALA:CB	2.64	0.45
27:BD:117:VAL:CG1	27:BD:129:ASN:N	2.79	0.45
27:BD:160:GLY:N	27:BD:196:VAL:HG21	2.32	0.45
24:BA:2226:C:N3	27:BD:262:ARG:NH2	2.64	0.45
28:BE:100:GLU:N	28:BE:172:VAL:HG21	2.23	0.45
29:BF:131:GLY:O	29:BF:134:GLY:N	2.49	0.45
24:BA:674:G:O3'	29:BF:74:ARG:NH2	2.50	0.45
30:BG:21:ARG:NH1	30:BG:27:ASN:HA	2.31	0.45
30:BG:33:ARG:C	30:BG:33:ARG:HH21	2.20	0.45
31:BH:105:LEU:HB2	31:BH:113:VAL:CG1	2.33	0.45
31:BH:156:ALA:O	31:BH:157:TYR:CB	2.65	0.45
31:BH:45:VAL:O	31:BH:46:GLU:OE1	2.34	0.45
31:BH:87:LEU:O	31:BH:131:VAL:C	2.55	0.45
33:BL:103:GLN:O	33:BL:106:GLU:HG3	2.16	0.45
33:BL:27:LEU:HD11	33:BL:57:ILE:CD1	2.35	0.45
34:BM:14:VAL:CG1	34:BM:138:LEU:HB3	2.29	0.45
34:BM:16:ILE:HG22	34:BM:21:LYS:HZ2	1.80	0.45
34:BM:23:LEU:CG	34:BM:63:THR:HG23	2.46	0.45
35:BN:38:VAL:C	35:BN:39:ILE:HG23	2.36	0.45
36:BO:137:LYS:CE	36:BO:137:LYS:CA	2.92	0.45
36:BO:36:LYS:HD3	36:BO:36:LYS:HA	1.51	0.45
36:BO:46:LYS:NZ	36:BO:50:ARG:HH11	2.14	0.45
37:BP:104:PHE:C	37:BP:105:GLU:CD	2.75	0.45
24:BA:955:C:OP1	37:BP:17:LEU:HG	2.15	0.45
37:BP:38:GLU:N	37:BP:39:PRO:CD	2.76	0.45
37:BP:59:ARG:NH2	46:BY:177:PRO:CB	2.78	0.45
38:BQ:93:GLY:C	38:BQ:95:THR:N	2.68	0.45
40:BS:26:ASP:OD2	40:BS:26:ASP:C	2.54	0.45
40:BS:38:ASN:O	40:BS:39:ARG:HG2	2.17	0.45
40:BS:62:THR:HG22	40:BS:79:HIS:N	2.28	0.45
41:BT:36:ARG:O	41:BT:39:LEU:HB2	2.17	0.45
43:BV:6:ILE:HD11	43:BV:104:THR:HA	1.97	0.45
24:BA:519:U:C4'	43:BV:75:TYR:HB2	2.47	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:85:G:P	45:BX:28:LYS:HE3	2.57	0.45
46:BY:44:PHE:O	46:BY:47:VAL:HB	2.16	0.45
47:BZ:37:LEU:HG	47:BZ:38:VAL:H	1.81	0.45
47:BZ:40:GLN:OE1	47:BZ:44:ARG:N	2.50	0.45
3:AD:47:U:H2'	3:AD:47:U:O2	2.16	0.45
24:BA:2121:G:C1'	26:BC:167:LYS:HZ3	2.22	0.45
26:BC:222:VAL:HG13	26:BC:223:ARG:O	2.17	0.45
26:BC:75:LEU:HD21	26:BC:99:ILE:CG2	2.45	0.45
26:BC:99:ILE:HG12	26:BC:107:TRP:CZ3	2.51	0.45
1:AA:164:U:C2'	1:AA:165:C:C6	2.99	0.45
1:AA:343:U:C2'	1:AA:344:A:O5'	2.64	0.45
24:BA:1416:G:N2	24:BA:1581:G:C6	2.81	0.45
24:BA:1231:G:H2'	24:BA:1232:G:H8	1.82	0.45
1:AA:1079:G:N2	1:AA:1080:A:C2	2.84	0.45
1:AA:1107:C:P	5:AF:172:ARG:NH1	2.89	0.45
1:AA:1126:U:OP1	1:AA:1126:U:O4'	2.35	0.45
1:AA:1213:A:H2'	1:AA:1215:G:N7	2.31	0.45
1:AA:1239:A:H8	1:AA:1241:G:H1'	1.82	0.45
1:AA:1342:C:O2'	1:AA:1343:G:H5'	2.16	0.45
1:AA:976:G:C4	1:AA:1363:A:N6	2.84	0.45
1:AA:141:A:O4'	1:AA:182:U:H1'	2.17	0.45
1:AA:1468:A:C8	1:AA:1469:G:H8	2.33	0.45
1:AA:1476:G:C6	1:AA:1477:C:N4	2.85	0.45
1:AA:1509:C:O2'	1:AA:1510:U:C5'	2.56	0.45
1:AA:278:G:N2	1:AA:279:A:H62	2.15	0.45
1:AA:322:C:N3	1:AA:323:U:O2	2.49	0.45
1:AA:407:G:C2	1:AA:436:C:O2	2.70	0.45
1:AA:456:C:C2	1:AA:477:G:C2	3.05	0.45
1:AA:577:G:N2	1:AA:578:C:C1'	2.79	0.45
1:AA:637:G:C6	1:AA:638:G:N7	2.85	0.45
1:AA:723:U:O4'	2:A1:29:G:O2'	2.22	0.45
1:AA:747:C:H2'	1:AA:748:C:O4'	2.17	0.45
1:AA:747:C:H6	1:AA:747:C:O5'	1.99	0.45
1:AA:787:A:C2'	1:AA:788:U:H5'	2.35	0.45
1:AA:829:G:N2	1:AA:858:G:O2'	2.49	0.45
1:AA:873:A:C4'	1:AA:874:G:OP2	2.65	0.45
1:AA:938:A:O2'	1:AA:939:G:C5'	2.58	0.45
1:AA:953:G:C2'	1:AA:954:G:O5'	2.65	0.45
3:AB:74:C:H5	24:BA:2556:C:N1	2.13	0.45
3:AB:76:A:H4'	24:BA:2507:C:C5'	2.46	0.45
3:AC:3:C:C2'	3:AC:4:C:O5'	2.65	0.45
3:AC:59:U:C4	3:AC:60:U:C4	3.04	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:46:LYS:CE	4:AE:49:GLU:HG2	2.47	0.45
6:AG:98:GLU:O	6:AG:103:ASN:CB	2.63	0.45
6:AG:125:HIS:CB	6:AG:152:SER:HB2	2.36	0.45
6:AG:196:LEU:HA	6:AG:197:PRO:HD2	1.86	0.45
9:AJ:21:VAL:HG23	9:AJ:22:LEU:HD22	1.99	0.45
9:AJ:26:PHE:CD2	9:AJ:62:PHE:HE1	2.34	0.45
9:AJ:29:LYS:NZ	9:AJ:98:SER:O	2.48	0.45
10:AK:111:ILE:HD12	10:AK:111:ILE:H	1.76	0.45
10:AK:88:LYS:O	10:AK:90:GLY:N	2.50	0.45
11:AL:101:PHE:O	11:AL:102:LEU:CD2	2.65	0.45
11:AL:63:ILE:N	11:AL:63:ILE:CD1	2.64	0.45
12:AM:55:LYS:O	12:AM:55:LYS:CG	2.65	0.45
13:AN:85:ARG:CD	13:AN:113:PRO:HD2	2.46	0.45
14:AO:34:ARG:O	14:AO:60:LEU:HB2	2.17	0.45
17:AR:60:VAL:O	17:AR:63:ARG:CG	2.49	0.45
18:AS:66:PRO:HG2	18:AS:71:ARG:NH1	2.32	0.45
19:AT:3:LYS:O	19:AT:4:LYS:C	2.54	0.45
19:AT:75:ARG:NH1	19:AT:76:LEU:O	2.48	0.45
19:AT:7:THR:HG22	19:AT:56:VAL:CG1	2.47	0.45
20:AU:43:PHE:O	20:AU:51:LEU:CD1	2.52	0.45
22:AW:23:ARG:HA	22:AW:26:ASN:CG	2.37	0.45
22:AW:40:ALA:O	22:AW:43:LEU:N	2.49	0.45
24:BA:1128:A:N3	24:BA:1128:A:C2'	2.78	0.45
24:BA:1006:C:C6	24:BA:1137:G:N2	2.85	0.45
24:BA:119:A:O2'	24:BA:120:U:O5'	2.35	0.45
24:BA:1342:A:N9	24:BA:1345:C:N4	2.64	0.45
24:BA:1464:C:H2'	24:BA:1465:G:C8	2.44	0.45
24:BA:147:U:C4	24:BA:148:C:N4	2.85	0.45
24:BA:1522:G:H2'	24:BA:1523:U:C6	2.51	0.45
24:BA:1615:C:N4	24:BA:1617:C:O2	2.50	0.45
24:BA:1638:C:OP1	24:BA:2710:C:O2'	2.33	0.45
24:BA:1691:C:O2	24:BA:1691:C:H2'	2.15	0.45
24:BA:1743:G:C4	24:BA:1746:G:C8	3.04	0.45
24:BA:1681:G:H1'	24:BA:1763:G:H5'	1.99	0.45
24:BA:1808:U:C2	24:BA:1810:A:C2	3.05	0.45
24:BA:1958:C:C2'	24:BA:1959:G:O5'	2.64	0.45
24:BA:2016:U:H1'	51:B4:6:VAL:HG13	1.98	0.45
24:BA:2016:U:O4'	51:B4:6:VAL:CG1	2.61	0.45
24:BA:2210:G:C6	27:BD:70:TRP:CE2	3.05	0.45
24:BA:2263:C:H2'	24:BA:2264:C:H5'	1.98	0.45
24:BA:2284:C:O2'	24:BA:2325:G:C2	2.70	0.45
24:BA:2363:C:O2'	24:BA:2364:C:H5'	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2394:C:O2	24:BA:2394:C:C2'	2.64	0.45
24:BA:2395:C:C5	24:BA:2396:G:N7	2.84	0.45
24:BA:2397:G:H2'	24:BA:2398:U:C6	2.51	0.45
24:BA:2464:C:C2	24:BA:2465:C:C6	3.05	0.45
24:BA:2550:G:N2	24:BA:2559:C:N1	2.65	0.45
24:BA:2547:U:C6	24:BA:2566:A:C2	3.05	0.45
24:BA:270(B):A:C1'	24:BA:270(C):C:C5	2.92	0.45
24:BA:2742:C:O2	24:BA:2742:C:C2'	2.64	0.45
24:BA:2780:G:H2'	24:BA:2781:A:H5''	1.96	0.45
24:BA:2788:C:O5'	24:BA:2788:C:H6	1.99	0.45
24:BA:2866:U:O2	24:BA:2868:A:H1'	2.16	0.45
24:BA:303:U:O5'	24:BA:303:U:H6	2.00	0.45
24:BA:366:C:H6	24:BA:366:C:O5'	2.00	0.45
24:BA:371:A:C8	24:BA:424:G:OP1	2.70	0.45
24:BA:386:G:N3	24:BA:386:G:C2'	2.72	0.45
24:BA:416:C:N4	24:BA:417:C:N4	2.64	0.45
24:BA:499:U:H2'	24:BA:500:G:O4'	2.17	0.45
24:BA:514:A:HO2'	24:BA:515:A:H5'	1.81	0.45
24:BA:28:A:O2'	24:BA:583:G:H5'	2.16	0.45
24:BA:624:C:C4'	24:BA:624:C:C6	3.00	0.45
24:BA:75:G:O3'	48:B1:50:ARG:NE	2.41	0.45
24:BA:804:A:OP2	36:BO:39:LYS:HB3	2.17	0.45
24:BA:811:U:C3'	24:BA:811:U:H6	2.28	0.45
24:BA:817:C:H3'	24:BA:818:G:C8	2.51	0.45
24:BA:862:G:H21	25:BB:99:A:H2	1.62	0.45
24:BA:960:A:C8	24:BA:960:A:O5'	2.70	0.45
24:BA:974:G:C2'	24:BA:1186:G:C4	3.00	0.45
24:BA:996:A:N6	24:BA:1160:G:N1	2.65	0.45
27:BD:145:VAL:HG13	27:BD:190:TYR:O	2.16	0.45
24:BA:1566:A:N3	27:BD:215:LEU:HD22	2.31	0.45
27:BD:252:TRP:HB3	27:BD:253:GLN:H	1.41	0.45
1:AA:776:G:O6	27:BD:276:LYS:OXT	2.34	0.45
27:BD:39:LYS:HB3	27:BD:62:TYR:HD2	1.81	0.45
27:BD:85:ASP:C	27:BD:87:ASN:HD22	2.20	0.45
28:BE:187:ALA:O	28:BE:189:PRO:N	2.49	0.45
24:BA:2787:C:C5'	28:BE:64:LYS:HB2	2.46	0.45
28:BE:2:LYS:CD	28:BE:83:ASP:CB	2.94	0.45
29:BF:12:LEU:HD22	29:BF:142:TRP:CZ3	2.50	0.45
29:BF:123:LEU:CD1	29:BF:193:VAL:HG22	2.27	0.45
29:BF:7:TYR:OH	29:BF:23:ASP:O	2.34	0.45
24:BA:2060:A:OP2	29:BF:72:ARG:HA	2.16	0.45
31:BH:117:PRO:HB2	31:BH:121:ILE:HG23	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:BH:151:ILE:O	31:BH:152:ARG:O	2.34	0.45
31:BH:7:LEU:HD12	31:BH:51:ARG:HD2	1.98	0.45
31:BH:77:LYS:HE3	31:BH:77:LYS:HB3	1.69	0.45
32:BK:32:PRO:O	32:BK:33:ARG:C	2.54	0.45
32:BK:37:VAL:HG12	32:BK:43:ASN:OD1	2.17	0.45
33:BL:24:GLY:HA2	33:BL:34:ILE:CD1	2.46	0.45
34:BM:117:PHE:CA	34:BM:120:LEU:HB3	2.43	0.45
34:BM:53:VAL:HG22	34:BM:121:LYS:HB2	1.99	0.45
34:BM:128:HIS:O	34:BM:131:GLN:N	2.50	0.45
34:BM:16:ILE:N	34:BM:16:ILE:CD1	2.71	0.45
35:BN:38:VAL:HG12	35:BN:59:LYS:O	2.17	0.45
35:BN:47:ILE:HG12	35:BN:47:ILE:O	2.16	0.45
35:BN:11:ALA:HB3	35:BN:97:ARG:NH2	2.28	0.45
35:BN:97:ARG:NH1	35:BN:98:VAL:O	2.42	0.45
36:BO:72:PRO:O	36:BO:111:ARG:CZ	2.64	0.45
36:BO:52:GLU:N	36:BO:55:ARG:HG3	2.31	0.45
37:BP:48:GLU:HA	37:BP:51:ARG:HG3	1.98	0.45
38:BQ:13:HIS:CD2	38:BQ:15:SER:HG	2.35	0.45
39:BR:17:ARG:HA	39:BR:20:ARG:HG3	1.99	0.45
40:BS:32:TYR:C	40:BS:33:LYS:HG2	2.35	0.45
41:BT:102:GLU:HA	41:BT:103:PRO:HD2	1.56	0.45
24:BA:995:C:P	41:BT:53:ARG:HH22	2.39	0.45
41:BT:98:LEU:HA	41:BT:101:ARG:CG	2.45	0.45
43:BV:34:ASN:CA	43:BV:37:ARG:HE	2.16	0.45
44:BW:65:ARG:HG2	44:BW:65:ARG:H	1.45	0.45
44:BW:85:PRO:C	44:BW:87:GLN:NE2	2.70	0.45
46:BY:119:GLU:O	46:BY:119:GLU:HG3	2.15	0.45
46:BY:125:LEU:HD22	46:BY:127:LYS:HE2	1.97	0.45
47:BZ:50:ASN:HB2	47:BZ:81:VAL:HG23	1.98	0.45
24:BA:2135:A:O5'	24:BA:2136:C:C5	2.70	0.45
26:BC:73:ARG:HB3	26:BC:93:TYR:CE2	2.52	0.45
24:BA:182:A:H1'	24:BA:433:C:O2'	2.17	0.45
24:BA:1483:G:C4	24:BA:1507:A:C2	3.04	0.45
24:BA:1509:C:OP1	24:BA:1510:A:C8	2.57	0.45
24:BA:1870:C:C2'	24:BA:1870:C:O2	2.62	0.45
1:AA:513:C:N3	1:AA:514:C:C5	2.84	0.45
2:A1:26:G:C6	2:A1:27:A:N6	2.85	0.45
1:AA:1002:G:H2'	1:AA:1002:G:N3	2.31	0.45
1:AA:1101:A:O2'	1:AA:1102:A:OP2	2.35	0.45
1:AA:1145:C:O2'	1:AA:1146:A:P	2.74	0.45
1:AA:1225:A:N3	1:AA:1225:A:H2'	2.32	0.45
1:AA:1338:G:H2'	1:AA:1339:A:H8	1.76	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1466:C:C3'	1:AA:1467:G:H8	2.30	0.45
1:AA:1466:C:H2'	1:AA:1467:G:N9	2.30	0.45
1:AA:1466:C:H3'	1:AA:1467:G:H8	1.80	0.45
1:AA:1488:G:N3	1:AA:1489:G:C8	2.84	0.45
1:AA:1498:U:O2'	1:AA:1499:A:C5'	2.65	0.45
1:AA:22:G:O2'	1:AA:23:C:O4'	2.34	0.45
1:AA:448:A:OP2	1:AA:485:G:N2	2.50	0.45
1:AA:509:A:C6	1:AA:510:A:N1	2.85	0.45
1:AA:524:G:O2'	1:AA:525:C:C5'	2.64	0.45
1:AA:544:G:C2	1:AA:545:C:C2	3.05	0.45
1:AA:665:A:O4'	1:AA:733:A:H1'	2.16	0.45
1:AA:767:A:H2'	1:AA:768:A:H5'	1.99	0.45
1:AA:781:A:N7	1:AA:802:A:N1	2.64	0.45
1:AA:87:A:C8	1:AA:88:C:C2	3.05	0.45
1:AA:920:U:H2'	1:AA:921:U:C6	2.50	0.45
1:AA:941:G:H2'	1:AA:942:G:O5'	2.15	0.45
1:AA:956:U:C2	1:AA:960:U:O4	2.70	0.45
1:AA:981:U:C3'	1:AA:981:U:H6	2.26	0.45
3:AB:62:C:C2	3:AB:63:G:N7	2.84	0.45
3:AD:5:G:N2	3:AD:6:G:C5	2.85	0.45
3:AD:76:A:H3'	24:BA:2432:A:C4'	2.39	0.45
4:AE:12:GLU:C	4:AE:14:GLY:N	2.70	0.45
4:AE:157:ARG:C	4:AE:158:LEU:CD2	2.81	0.45
4:AE:102:LEU:HD23	4:AE:176:GLU:HB3	1.95	0.45
4:AE:179:LYS:HG2	10:AK:72:PRO:HA	1.98	0.45
5:AF:123:GLN:HB3	5:AF:128:PHE:CZ	2.52	0.45
5:AF:157:ILE:HG13	5:AF:164:ARG:CD	2.46	0.45
5:AF:70:VAL:HG12	5:AF:72:LYS:H	1.82	0.45
6:AG:126:ILE:O	6:AG:132:ARG:HB3	2.17	0.45
6:AG:145:GLU:HB3	6:AG:184:LYS:CG	2.38	0.45
6:AG:80:GLU:O	6:AG:83:SER:OG	2.34	0.45
7:AH:20:GLN:NE2	7:AH:21:ALA:HB3	2.29	0.45
7:AH:95:ALA:C	7:AH:96:PRO:O	2.53	0.45
8:AI:2:ARG:O	8:AI:67:MET:CE	2.64	0.45
8:AI:97:PHE:CE2	20:AU:62:GLU:OE2	2.69	0.45
9:AJ:104:LEU:O	9:AJ:105:VAL:C	2.55	0.45
9:AJ:29:LYS:HE3	9:AJ:101:LEU:CD1	2.39	0.45
9:AJ:37:ASN:OD1	9:AJ:38:LEU:HD13	2.17	0.45
9:AJ:42:ILE:HG21	9:AJ:116:ALA:HB1	1.98	0.45
9:AJ:17:VAL:HG21	9:AJ:44:TYR:CZ	2.50	0.45
9:AJ:69:VAL:HG13	9:AJ:135:VAL:CA	2.47	0.45
12:AM:34:VAL:CA	12:AM:74:ILE:HG12	2.40	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AN:26:ASN:O	13:AN:27:ASN:CB	2.65	0.45
1:AA:1228:C:O3'	15:AP:116:THR:HA	2.17	0.45
15:AP:17:VAL:HG12	15:AP:21:TYR:CZ	2.52	0.45
15:AP:40:ASN:CG	15:AP:42:ALA:HB3	2.37	0.45
12:AM:49:VAL:HG22	16:AQ:41:ARG:HB2	1.97	0.45
17:AR:62:GLN:CA	17:AR:65:ARG:HH12	2.30	0.45
18:AS:34:GLU:CD	18:AS:35:LYS:N	2.70	0.45
21:AV:15:LEU:HG	21:AV:16:LEU:N	2.26	0.45
1:AA:1286:A:C5'	23:AX:25:LYS:HG2	2.25	0.45
53:B6:11:LYS:CE	53:B6:15:THR:HG21	2.47	0.45
55:B8:11:CYS:C	55:B8:13:LYS:H	2.20	0.45
24:BA:1048:A:OP2	24:BA:1110:G:N1	2.44	0.45
24:BA:1120:G:C4	24:BA:1121:C:C5	3.05	0.45
24:BA:1184:G:C5	24:BA:1185:C:C5	3.05	0.45
24:BA:814:C:O3'	24:BA:1224:G:N2	2.50	0.45
24:BA:1260:G:N2	24:BA:1261:C:C2	2.85	0.45
24:BA:1419:A:P	24:BA:1419:A:O4'	2.74	0.45
24:BA:1388:G:H4'	24:BA:1524:G:HO2'	1.81	0.45
24:BA:1570:A:N1	24:BA:1571:A:N7	2.64	0.45
24:BA:1635:G:C5'	24:BA:1635:G:H8	2.30	0.45
24:BA:1641:A:N6	24:BA:1642:G:N3	2.65	0.45
24:BA:1698:A:O2'	24:BA:1699:G:H3'	2.16	0.45
24:BA:1700:A:H2'	24:BA:1701:A:O4'	2.16	0.45
24:BA:1759:A:O5'	24:BA:1759:A:H8	1.99	0.45
24:BA:1801:G:O6	24:BA:2207:C:H1'	2.16	0.45
24:BA:1837:C:N3	24:BA:1899:G:O6	2.49	0.45
24:BA:1955:U:O2	24:BA:1955:U:C2'	2.65	0.45
24:BA:2046:G:H2'	24:BA:2047:U:C6	2.51	0.45
24:BA:218:A:H2'	24:BA:219:G:C8	2.51	0.45
24:BA:2097:C:N4	24:BA:2193:G:C6	2.84	0.45
24:BA:2277:G:C5	24:BA:2278:A:C8	3.05	0.45
24:BA:2325:G:C8	24:BA:2326:C:C5	3.05	0.45
24:BA:2355:C:C5	24:BA:2356:C:C5	3.05	0.45
24:BA:2352:A:C8	24:BA:2366:A:C6	3.04	0.45
24:BA:2261:C:O4'	24:BA:2388:A:H1'	2.17	0.45
24:BA:2427:C:H3'	24:BA:2427:C:H6	1.82	0.45
24:BA:2591:C:C2	24:BA:2592:G:C8	3.04	0.45
24:BA:2682:U:O2'	24:BA:2683:C:H5'	2.16	0.45
24:BA:2712:U:HO2'	24:BA:2712(A):A:P	2.40	0.45
24:BA:2745:C:C2	24:BA:2746:U:C5	3.04	0.45
24:BA:2759:G:C2	24:BA:2760:C:C6	3.04	0.45
24:BA:2543:G:C2	24:BA:2765:A:N1	2.83	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2848:G:N2	24:BA:2849:U:C2	2.85	0.45
24:BA:295:G:C2'	24:BA:296:C:H5'	2.47	0.45
24:BA:479:A:O2'	24:BA:480:A:C8	2.69	0.45
24:BA:625:G:O2'	24:BA:656:G:O3'	2.30	0.45
24:BA:688:U:H5'	24:BA:1780:A:N6	2.32	0.45
24:BA:705:A:H62	24:BA:727:A:H8	1.62	0.45
24:BA:728:G:H21	24:BA:730:C:H5''	1.81	0.45
24:BA:851:U:OP1	49:B2:49:LYS:NZ	2.41	0.45
24:BA:87:C:O2'	48:B1:46:ARG:NH2	2.50	0.45
24:BA:93:C:H2'	24:BA:94:G:H8	1.80	0.45
25:BB:29:A:OP1	39:BR:34:HIS:CE1	2.69	0.45
25:BB:6:C:C2'	25:BB:7:G:O5'	2.65	0.45
27:BD:173:VAL:O	27:BD:184:LYS:HA	2.17	0.45
24:BA:2224:G:H4'	27:BD:262:ARG:HH21	1.81	0.45
28:BE:101:ARG:HD2	28:BE:170:LEU:O	2.17	0.45
28:BE:103:ASP:HA	28:BE:170:LEU:CD2	2.47	0.45
24:BA:2773:C:C5'	28:BE:165:VAL:HG13	2.46	0.45
28:BE:195:LEU:HD22	28:BE:195:LEU:HA	1.38	0.45
24:BA:2733:A:C2	28:BE:204:ALA:HB2	2.52	0.45
28:BE:27:LEU:CD1	28:BE:30:PRO:HD3	2.31	0.45
28:BE:32:PRO:CD	28:BE:88:GLY:C	2.85	0.45
28:BE:52:LEU:HA	28:BE:74:PRO:CB	2.46	0.45
28:BE:76:ARG:HG3	28:BE:76:ARG:O	2.17	0.45
24:BA:323:G:C8	29:BF:170:LEU:HB2	2.51	0.45
29:BF:194:MET:SD	29:BF:197:ASP:CB	3.05	0.45
30:BG:22:ARG:CG	30:BG:23:PHE:N	2.80	0.45
34:BM:127:ASP:H	34:BM:129:PRO:CD	2.19	0.45
35:BN:47:ILE:CD1	35:BN:49:ARG:O	2.64	0.45
24:BA:2393:A:H5''	36:BO:56:SER:C	2.37	0.45
36:BO:58:THR:CG2	36:BO:60:MET:HG2	2.46	0.45
37:BP:36:ALA:HB3	37:BP:101:ARG:H	1.82	0.45
37:BP:27:VAL:HG13	37:BP:102:VAL:HG21	1.98	0.45
37:BP:130:LYS:HZ1	37:BP:132:VAL:HG13	1.79	0.45
37:BP:134:ARG:CG	37:BP:134:ARG:HH11	2.26	0.45
37:BP:37:LEU:H	37:BP:39:PRO:HD3	1.82	0.45
38:BQ:10:LEU:HD22	38:BQ:43:GLU:HG2	1.99	0.45
38:BQ:63:ARG:NH1	38:BQ:63:ARG:HG2	2.32	0.45
38:BQ:87:TYR:CD2	38:BQ:87:TYR:N	2.83	0.45
38:BQ:87:TYR:N	38:BQ:87:TYR:HD2	2.15	0.45
39:BR:67:ARG:HD3	39:BR:103:GLU:HB2	1.99	0.45
39:BR:77:ALA:O	39:BR:79:ALA:N	2.50	0.45
39:BR:92:TYR:CD2	39:BR:93:LYS:N	2.85	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BS:37:GLY:CA	40:BS:42:ILE:O	2.64	0.45
41:BT:69:CYS:O	41:BT:72:HIS:HB2	2.16	0.45
42:BU:40:LEU:HB3	42:BU:51:VAL:CG1	2.47	0.45
42:BU:42:GLY:O	42:BU:49:THR:O	2.34	0.45
43:BV:29:LEU:O	43:BV:30:GLU:C	2.55	0.45
43:BV:25:ARG:CA	43:BV:71:VAL:HG11	2.42	0.45
45:BX:53:PRO:HG2	45:BX:56:PRO:HA	1.99	0.45
45:BX:57:GLN:O	45:BX:58:GLY:C	2.55	0.45
46:BY:111:VAL:HA	46:BY:116:VAL:O	2.15	0.45
47:BZ:72:ARG:O	47:BZ:75:LEU:CD1	2.65	0.45
47:BZ:75:LEU:HB2	47:BZ:78:TYR:CE1	2.52	0.45
32:BK:96:ASP:CA	32:BK:99:GLU:OE1	2.50	0.45
24:BA:2150:U:N3	24:BA:2151:G:N7	2.64	0.45
24:BA:2171:A:O2'	24:BA:2172:U:O4'	2.34	0.45
24:BA:2177:C:O2'	24:BA:2178:C:H5'	2.17	0.45
26:BC:108:MET:HE3	26:BC:136:LEU:CD1	2.42	0.45
26:BC:104:LEU:HA	26:BC:130:ILE:HG12	1.99	0.45
26:BC:200:LYS:HZ1	26:BC:204:ALA:HB3	1.81	0.45
26:BC:21:THR:HG1	26:BC:24:GLU:CD	2.19	0.45
24:BA:2127:G:O3'	26:BC:36:LYS:HB2	2.15	0.45
2:A1:30:U:H3'	2:A1:31:U:C6	2.51	0.45
1:AA:1001:G:C5	1:AA:1002:G:H1'	2.51	0.45
1:AA:1083:U:H3'	1:AA:1084:G:C8	2.52	0.45
1:AA:1108:G:C5	1:AA:1109:C:C4	3.05	0.45
1:AA:1252:A:C6	1:AA:1253:G:C5	3.05	0.45
1:AA:1386:G:N1	1:AA:1387:G:C5	2.85	0.45
1:AA:1392:G:C2'	1:AA:1393:U:O5'	2.65	0.45
1:AA:1424:C:H2'	1:AA:1425:U:C6	2.52	0.45
1:AA:1433:A:O2'	1:AA:1434:A:H5'	2.16	0.45
1:AA:144:G:C6	1:AA:179:A:C6	3.04	0.45
1:AA:1480:G:C2'	1:AA:1481:U:C5'	2.95	0.45
1:AA:152:A:OP2	1:AA:153:C:H5	1.99	0.45
1:AA:181:G:H2'	1:AA:182:U:OP2	2.17	0.45
1:AA:195:A:H1'	1:AA:223:U:H5'	1.99	0.45
1:AA:195:A:P	22:AW:68:LYS:HZ1	2.40	0.45
1:AA:251:G:C4'	1:AA:252:U:OP1	2.65	0.45
1:AA:273:A:C2	1:AA:274:A:C1'	2.91	0.45
1:AA:246:A:C2	1:AA:282:A:C5	3.04	0.45
1:AA:307:C:N3	1:AA:308:C:H5	2.14	0.45
1:AA:292:G:C4	1:AA:309:G:N2	2.84	0.45
1:AA:416:G:C2	1:AA:417:C:C2	3.05	0.45
1:AA:619:U:H1'	6:AG:133:VAL:HG22	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:622:A:C2	1:AA:623:C:O4'	2.70	0.45
1:AA:722:A:H5'	1:AA:723:U:O4	2.16	0.45
1:AA:588:G:C4	1:AA:753:A:C5	3.05	0.45
1:AA:812:C:C4'	1:AA:813:U:C6	3.00	0.45
1:AA:890:G:O2'	1:AA:891:U:H6	1.98	0.45
1:AA:895:G:N2	1:AA:896:C:C2	2.85	0.45
1:AA:92:G:N2	1:AA:93:U:H1'	2.31	0.45
1:AA:976:G:C6	1:AA:1362:C:N4	2.85	0.45
3:AC:57:G:H4'	30:BG:82:LEU:CD2	2.47	0.45
4:AE:31:TYR:CZ	4:AE:200:ILE:HG21	2.51	0.45
4:AE:7:VAL:CG2	4:AE:8:LYS:H	2.21	0.45
5:AF:122:GLU:HA	5:AF:125:GLU:OE2	2.17	0.45
5:AF:160:ALA:C	5:AF:162:GLN:N	2.69	0.45
5:AF:172:ARG:HB3	5:AF:172:ARG:NH1	2.31	0.45
6:AG:140:VAL:HG12	6:AG:185:PHE:HD1	1.81	0.45
6:AG:30:LYS:HA	6:AG:35:ARG:HG2	1.98	0.45
6:AG:30:LYS:N	6:AG:34:GLU:CB	2.72	0.45
7:AH:140:ARG:O	7:AH:141:GLN:C	2.52	0.45
7:AH:41:VAL:CG2	7:AH:113:ALA:HA	2.47	0.45
7:AH:57:LYS:NZ	7:AH:61:TYR:OH	2.45	0.45
8:AI:16:GLN:O	8:AI:19:LEU:HB3	2.17	0.45
8:AI:23:LYS:HA	8:AI:26:ILE:HG13	1.98	0.45
8:AI:53:ALA:O	8:AI:55:ASP:CG	2.55	0.45
8:AI:79:LEU:CD2	8:AI:79:LEU:N	2.76	0.45
9:AJ:129:GLU:HB2	9:AJ:131:LYS:HE2	1.99	0.45
11:AL:113:LYS:H	11:AL:113:LYS:HD2	1.81	0.45
1:AA:1254:C:OP1	12:AM:45:ARG:NE	2.50	0.45
12:AM:4:ILE:HD13	12:AM:98:ILE:CG2	2.47	0.45
13:AN:79:SER:HA	13:AN:104:GLN:NE2	2.31	0.45
13:AN:34:ASP:HB2	13:AN:35:PRO:CD	2.47	0.45
13:AN:81:ASP:OD1	13:AN:106:LYS:CD	2.64	0.45
15:AP:104:ARG:HG2	15:AP:105:THR:N	2.31	0.45
15:AP:20:THR:HG22	15:AP:20:THR:O	2.15	0.45
15:AP:52:GLU:CB	15:AP:55:ARG:CZ	2.94	0.45
17:AR:27:VAL:HG12	17:AR:31:LEU:CD2	2.47	0.45
18:AS:32:TYR:C	18:AS:34:GLU:N	2.70	0.45
20:AU:38:GLU:N	20:AU:38:GLU:CD	2.64	0.45
20:AU:58:LEU:HB3	20:AU:62:GLU:CG	2.43	0.45
20:AU:78:LEU:O	20:AU:79:LEU:CB	2.64	0.45
15:AP:87:TYR:HD1	21:AV:73:GLU:HB3	1.81	0.45
48:B1:48:LEU:CD1	48:B1:51:GLN:HE22	2.29	0.45
48:B1:54:ARG:O	48:B1:55:LEU:C	2.55	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:B3:1:MET:CE	50:B3:9:LEU:HD21	2.46	0.45
50:B3:65:ASP:OD2	50:B3:69:LYS:CE	2.64	0.45
51:B4:9:LYS:H	51:B4:9:LYS:HD2	1.78	0.45
53:B6:33:ARG:O	53:B6:37:LYS:CG	2.65	0.45
24:BA:1005:C:O4'	24:BA:1012:U:O2	2.34	0.45
24:BA:1104:C:H2'	24:BA:1105:U:H6	1.80	0.45
24:BA:110:G:H2'	24:BA:110:G:N3	2.32	0.45
24:BA:1137:G:O2'	34:BM:102:ALA:O	2.35	0.45
24:BA:1165:U:C2	24:BA:1166:C:C5	3.05	0.45
24:BA:1203:G:C2	24:BA:1206:G:N1	2.84	0.45
24:BA:1303:G:N7	24:BA:1304:C:N4	2.64	0.45
24:BA:1321:A:N6	24:BA:1322:A:C2	2.82	0.45
24:BA:1378:A:C2	24:BA:1380:G:N9	2.85	0.45
24:BA:1407:C:OP2	24:BA:1407:C:H6	1.97	0.45
24:BA:1472:A:HO2'	24:BA:1473:G:H8	1.62	0.45
24:BA:1574:C:C4	24:BA:1575:C:C4	3.04	0.45
24:BA:1685:C:C2'	24:BA:1686:C:O5'	2.63	0.45
24:BA:1690:A:N6	24:BA:1697:G:C2	2.85	0.45
24:BA:1790:C:O3'	27:BD:209:ALA:HB1	2.16	0.45
24:BA:1842:G:N1	24:BA:1901:A:C6	2.85	0.45
24:BA:1869:G:C4	24:BA:1878:G:O6	2.70	0.45
24:BA:1935:G:H3'	24:BA:1962:C:N4	2.26	0.45
24:BA:194:G:C2	24:BA:195:A:C4	3.05	0.45
24:BA:1970:A:C5	24:BA:1972:A:C5	3.05	0.45
24:BA:1992:G:C4'	24:BA:1993:U:C5	2.99	0.45
24:BA:217:G:C2'	24:BA:218:A:O5'	2.65	0.45
24:BA:2258:C:N4	24:BA:2426:A:O4'	2.50	0.45
24:BA:2414:G:C2	24:BA:2415:G:N7	2.85	0.45
24:BA:242:G:H5''	54:B7:4:MET:HE3	1.97	0.45
24:BA:2457:U:H2'	24:BA:2458:G:C4'	2.46	0.45
24:BA:2473:U:OP1	24:BA:2474:C:N4	2.41	0.45
24:BA:2524:G:C4	24:BA:2525:G:H1'	2.52	0.45
24:BA:244:A:C2	24:BA:255:A:C2	3.05	0.45
24:BA:2625:G:H2'	24:BA:2626:C:O5'	2.17	0.45
24:BA:2638:G:H2'	24:BA:2639:A:N7	2.31	0.45
24:BA:2642:G:H2'	24:BA:2643:G:C8	2.50	0.45
24:BA:2720:U:C2'	24:BA:2721:A:C8	2.98	0.45
24:BA:2776:A:H5''	24:BA:2777:G:OP1	2.17	0.45
24:BA:2851:A:N1	24:BA:2852:G:C2	2.85	0.45
24:BA:2851:A:N1	24:BA:2852:G:C4	2.85	0.45
24:BA:2887:U:O2'	24:BA:2888:C:H5'	2.17	0.45
24:BA:308:G:N1	24:BA:309:G:C4	2.85	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:30:G:H2'	24:BA:31:C:C6	2.51	0.45
24:BA:33:U:O2'	24:BA:34:C:C5	2.56	0.45
24:BA:354:G:O2'	24:BA:355:G:O4'	2.31	0.45
24:BA:536:A:C6	24:BA:558:G:C6	3.05	0.45
24:BA:620:G:OP2	24:BA:620:G:O4'	2.35	0.45
24:BA:692:C:C2'	24:BA:693:C:O5'	2.65	0.45
24:BA:693:C:H2'	24:BA:694:U:O5'	2.16	0.45
24:BA:775:G:H5'	24:BA:777:A:N9	2.31	0.45
24:BA:840:C:H6	24:BA:840:C:O5'	1.99	0.45
24:BA:930:U:C2'	24:BA:931:G:OP2	2.64	0.45
24:BA:949:C:H2'	24:BA:950:G:C8	2.34	0.45
25:BB:3:C:O2'	25:BB:4:C:H5'	2.16	0.45
27:BD:107:ALA:O	27:BD:108:PRO:O	2.35	0.45
24:BA:2216:G:H21	27:BD:150:LYS:CD	2.30	0.45
27:BD:181:GLU:OE2	27:BD:272:ALA:HA	2.15	0.45
27:BD:33:LEU:HD11	27:BD:61:LEU:HD11	1.98	0.45
27:BD:61:LEU:O	27:BD:62:TYR:HB2	2.16	0.45
24:BA:1567:A:N1	27:BD:85:ASP:C	2.70	0.45
28:BE:146:THR:CB	28:BE:147:PRO:CD	2.78	0.45
29:BF:142:TRP:O	29:BF:145:GLU:N	2.49	0.45
29:BF:21:ALA:O	29:BF:22:ALA:HB3	2.16	0.45
29:BF:34:TRP:HB3	29:BF:38:ARG:NE	2.27	0.45
30:BG:105:LYS:C	30:BG:109:VAL:HG22	2.34	0.45
31:BH:11:VAL:HB	31:BH:50:VAL:HG22	1.97	0.45
31:BH:11:VAL:HG11	31:BH:45:VAL:HG11	1.98	0.45
32:BK:9:LEU:CG	32:BK:17:GLN:NE2	2.79	0.45
34:BM:19:GLU:HG3	34:BM:59:LYS:HB2	1.99	0.45
34:BM:34:LEU:HD22	34:BM:116:LEU:CD2	2.47	0.45
34:BM:69:GLN:H	34:BM:69:GLN:NE2	2.14	0.45
34:BM:77:GLY:C	34:BM:78:TYR:O	2.55	0.45
35:BN:52:VAL:O	35:BN:53:LYS:CG	2.65	0.45
36:BO:76:LYS:HB2	36:BO:101:VAL:HG21	1.99	0.45
29:BF:34:TRP:CG	36:BO:8:PRO:HB2	2.51	0.45
37:BP:32:TYR:N	37:BP:32:TYR:CD1	2.85	0.45
37:BP:7:MET:O	37:BP:69:PHE:CZ	2.70	0.45
24:BA:1287:A:H8	38:BQ:104:ARG:NH1	2.13	0.45
38:BQ:31:HIS:C	38:BQ:33:ARG:H	2.20	0.45
38:BQ:36:THR:OG1	38:BQ:40:LYS:HB3	2.17	0.45
24:BA:2820:A:OP1	38:BQ:5:LYS:HE2	2.17	0.45
38:BQ:83:ILE:O	38:BQ:84:ALA:C	2.53	0.45
40:BS:105:LEU:HG	40:BS:106:SER:H	1.82	0.45
40:BS:40:THR:O	40:BS:42:ILE:N	2.50	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BS:70:VAL:HB	40:BS:74:ARG:CD	2.44	0.45
40:BS:87:ASP:OD2	40:BS:88:ILE:N	2.49	0.45
40:BS:30:VAL:CG2	40:BS:89:VAL:O	2.54	0.45
41:BT:37:GLU:C	41:BT:39:LEU:N	2.70	0.45
24:BA:1154:G:OP1	41:BT:58:ARG:HD3	2.16	0.45
41:BT:67:ALA:HA	41:BT:70:ARG:NH2	2.11	0.45
42:BU:4:ILE:HD11	42:BU:43:GLU:OE1	2.17	0.45
42:BU:48:GLY:O	42:BU:49:THR:HG23	2.17	0.45
42:BU:40:LEU:CB	42:BU:51:VAL:HG13	2.47	0.45
43:BV:25:ARG:HD3	43:BV:74:ALA:C	2.38	0.45
43:BV:34:ASN:H	43:BV:34:ASN:ND2	2.15	0.45
43:BV:81:ALA:HB3	43:BV:97:LYS:HB2	1.98	0.45
45:BX:50:ARG:HG3	45:BX:54:LYS:CB	2.40	0.45
45:BX:97:ARG:C	45:BX:98:VAL:CG2	2.85	0.45
46:BY:1:MET:CE	46:BY:59:LEU:HD22	2.46	0.45
32:BK:97:ILE:HG22	32:BK:101:LEU:HD22	1.99	0.45
26:BC:22:ILE:CG1	26:BC:189:ILE:HG21	2.47	0.45
26:BC:43:VAL:HG21	26:BC:175:VAL:HG21	1.98	0.45
26:BC:44:HIS:CD2	26:BC:215:THR:HG21	2.52	0.45
26:BC:76:ALA:CA	26:BC:149:ILE:HD11	2.46	0.45
26:BC:78:ALA:HA	26:BC:119:VAL:HG22	1.98	0.45
33:BL:98:ARG:HD3	33:BL:139:VAL:HG11	1.98	0.45
43:BV:85:VAL:HG12	43:BV:95:ILE:CG2	2.46	0.45
18:AS:67:THR:CB	18:AS:70:ALA:HB2	2.43	0.45
11:AL:99:LEU:N	11:AL:99:LEU:CD2	2.80	0.45
1:AA:110:C:H2'	1:AA:111:G:H8	1.82	0.45
1:AA:1227:A:OP1	21:AV:80:TYR:HE2	1.95	0.45
1:AA:1321:C:H6	1:AA:1321:C:H3'	1.82	0.45
1:AA:1365:G:C2	1:AA:1366:C:C6	3.05	0.45
1:AA:1399:C:O2	1:AA:1401:G:N7	2.50	0.45
1:AA:1453:G:C2'	1:AA:1454:G:H5'	2.46	0.45
1:AA:1438:G:N2	1:AA:1464:G:H1'	2.32	0.45
1:AA:1470:G:C6	1:AA:1471:G:C5	3.05	0.45
1:AA:1519:A:H8	1:AA:1519:A:O5'	1.99	0.45
1:AA:152:A:C8	1:AA:153:C:C5	3.05	0.45
1:AA:392:G:N2	1:AA:393:A:H1'	2.32	0.45
1:AA:440:A:H2'	1:AA:442:C:O4'	2.17	0.45
1:AA:50:A:N3	1:AA:360:A:N3	2.65	0.45
1:AA:690:G:H2'	1:AA:691:G:O5'	2.17	0.45
1:AA:692:U:C4	13:AN:26:ASN:ND2	2.84	0.45
1:AA:789:U:H6	1:AA:789:U:C3'	2.26	0.45
1:AA:81:G:O6	1:AA:82:U:O4	2.35	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:986:A:H2'	1:AA:987:G:H8	1.81	0.45
1:AA:995:C:O2	16:AQ:4:LYS:CE	2.65	0.45
3:AB:18:G:H22	3:AB:55:U:H1'	1.82	0.45
4:AE:119:GLU:CA	4:AE:142:LEU:CD1	2.95	0.45
4:AE:185:ILE:HG12	4:AE:185:ILE:O	2.17	0.45
4:AE:51:LEU:N	4:AE:51:LEU:HD23	2.32	0.45
4:AE:70:PHE:HB3	4:AE:163:PHE:C	2.38	0.45
5:AF:116:VAL:HG21	5:AF:141:VAL:HG22	1.97	0.45
5:AF:155:GLY:O	5:AF:196:LEU:CB	2.64	0.45
5:AF:85:ARG:HH21	5:AF:89:GLU:CA	2.28	0.45
6:AG:106:TYR:CD2	6:AG:114:ARG:HG2	2.44	0.45
6:AG:139:ARG:CG	6:AG:140:VAL:H	2.29	0.45
6:AG:194:LEU:O	6:AG:195:ALA:O	2.35	0.45
7:AH:110:LEU:HD23	7:AH:110:LEU:N	2.32	0.45
7:AH:112:LEU:O	7:AH:114:GLY:N	2.49	0.45
8:AI:21:LEU:O	8:AI:24:GLU:HG3	2.17	0.45
9:AJ:126:ASP:O	9:AJ:131:LYS:CG	2.64	0.45
9:AJ:144:MET:HE2	9:AJ:144:MET:HB3	1.90	0.45
1:AA:824:C:C1'	10:AK:1:MET:H1	2.29	0.45
10:AK:26:VAL:O	10:AK:58:TYR:CD1	2.70	0.45
11:AL:71:SER:O	11:AL:74:ILE:N	2.50	0.45
12:AM:22:LYS:CE	12:AM:90:LEU:HD12	2.45	0.45
13:AN:108:ILE:HB	20:AU:88:LYS:OXT	2.17	0.45
13:AN:32:ILE:O	13:AN:40:ILE:HD13	2.17	0.45
13:AN:86:GLY:H	13:AN:112:THR:HG23	1.82	0.45
14:AO:24:VAL:CG1	14:AO:98:TYR:CE2	3.00	0.45
15:AP:22:ILE:CB	15:AP:25:ILE:HD12	2.47	0.45
18:AS:40:ASP:CG	18:AS:40:ASP:O	2.55	0.45
1:AA:189:U:H3	19:AT:63:ARG:CB	2.30	0.45
19:AT:65:ILE:HG23	19:AT:69:LYS:CD	2.41	0.45
20:AU:22:VAL:CG2	20:AU:55:ARG:O	2.65	0.45
20:AU:17:SER:HB2	20:AU:54:ARG:HH12	1.81	0.45
22:AW:31:SER:O	22:AW:34:LYS:HB2	2.17	0.45
22:AW:84:LEU:CD1	22:AW:84:LEU:C	2.86	0.45
23:AX:3:LYS:O	23:AX:14:TRP:HE3	1.98	0.45
50:B3:31:ILE:HG12	50:B3:31:ILE:O	2.17	0.45
50:B3:5:ILE:HD12	50:B3:8:LYS:O	2.16	0.45
52:B5:39:TYR:CG	52:B5:39:TYR:O	2.70	0.45
24:BA:2345:G:OP1	52:B5:39:TYR:O	2.35	0.45
52:B5:7:ILE:CG2	52:B5:8:LYS:H	2.28	0.45
54:B7:19:SER:HG	54:B7:21:LYS:HZ1	1.65	0.45
54:B7:26:LYS:O	54:B7:47:LYS:HE3	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:B7:29:LYS:HB3	54:B7:34:TRP:HH2	1.70	0.45
54:B7:62:LEU:CB	54:B7:63:PRO:HD3	2.46	0.45
24:BA:1055:G:C2	24:BA:1084:A:C2	3.05	0.45
24:BA:1056:G:N1	24:BA:1102:C:C5	2.84	0.45
24:BA:1119:C:O2	24:BA:1119:C:C2'	2.64	0.45
24:BA:111:A:C2'	24:BA:112:U:C6	2.94	0.45
24:BA:585:G:H22	24:BA:1253:A:P	2.39	0.45
24:BA:1267:U:HO2'	24:BA:1268:A:P	2.37	0.45
24:BA:1326:U:C6	24:BA:2010:G:N2	2.77	0.45
24:BA:1355:G:H22	24:BA:1377:G:C1'	2.25	0.45
24:BA:1388:G:N3	24:BA:1389:G:C8	2.85	0.45
24:BA:1343:G:C6	24:BA:1404:C:N3	2.85	0.45
24:BA:1449:A:H2	24:BA:1449(A):G:H1'	1.80	0.45
24:BA:1631:A:C8	24:BA:1631:A:OP1	2.70	0.45
24:BA:1635:G:H2'	24:BA:1636:C:H6	1.81	0.45
24:BA:1680:U:O2'	24:BA:1763:G:C8	2.70	0.45
24:BA:1761:C:H3'	24:BA:1761:C:H6	1.82	0.45
24:BA:18:C:N3	24:BA:19:C:C5	2.85	0.45
24:BA:1912:A:C6	24:BA:1919:A:C4	3.05	0.45
24:BA:193:U:O2'	24:BA:194:G:H5'	2.17	0.45
24:BA:1996:C:C3'	24:BA:1996:C:C6	3.00	0.45
24:BA:2024:G:C6	24:BA:2025:C:C5	3.05	0.45
24:BA:2051:A:C2	24:BA:2614:A:N6	2.85	0.45
24:BA:2056:G:O5'	24:BA:2057:A:OP1	2.34	0.45
24:BA:2076:U:C5'	24:BA:2077:A:OP2	2.65	0.45
24:BA:2089:U:C2	24:BA:2090:G:N7	2.85	0.45
24:BA:2445:G:C2	24:BA:2446:G:C5	3.05	0.45
24:BA:253:C:O2	24:BA:254:G:O4'	2.35	0.45
24:BA:2626:C:H3'	24:BA:2626:C:C6	2.52	0.45
24:BA:2706:G:C2'	24:BA:2707:G:O5'	2.65	0.45
24:BA:2717:G:C4	24:BA:2718:G:N7	2.85	0.45
24:BA:271(B):G:C3'	24:BA:271(C):U:H5'	2.46	0.45
24:BA:271(C):U:O4	24:BA:421:U:N3	2.50	0.45
24:BA:2880:C:H2'	24:BA:2881:C:H6	1.81	0.45
24:BA:2896:C:H2'	24:BA:2897:U:O5'	2.17	0.45
24:BA:285:C:N3	24:BA:357:A:C2	2.85	0.45
24:BA:513:A:C2'	24:BA:514:A:H5'	2.47	0.45
24:BA:566:U:C5	24:BA:567:A:C5	3.05	0.45
24:BA:618:G:H2'	24:BA:618(A):C:N1	2.31	0.45
24:BA:703:U:C5	24:BA:704:G:C5	3.05	0.45
24:BA:768:G:C4	24:BA:769:G:C8	3.05	0.45
24:BA:778:G:C6	24:BA:779:U:N3	2.85	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:779:U:O4	24:BA:780:G:N1	2.50	0.45
24:BA:815:C:H2'	24:BA:816:C:H6	1.82	0.45
24:BA:829:A:OP1	24:BA:831:G:H1'	2.16	0.45
24:BA:975:G:C2	24:BA:976:C:C6	2.99	0.45
24:BA:983:A:C2'	24:BA:984:A:C8	2.97	0.45
24:BA:983:A:C2	24:BA:984:A:N1	2.85	0.45
25:BB:33:G:N3	25:BB:33:G:H2'	2.31	0.45
25:BB:44:G:C2	25:BB:48:A:H1'	2.51	0.45
27:BD:175:LEU:CD1	27:BD:175:LEU:C	2.77	0.45
27:BD:23:GLU:CD	27:BD:24:ILE:O	2.55	0.45
27:BD:57:GLY:O	27:BD:58:HIS:HB2	2.17	0.45
27:BD:84:TYR:CD1	27:BD:91:ARG:HD2	2.52	0.45
28:BE:101:ARG:NH2	28:BE:171:GLU:CG	2.79	0.45
24:BA:2830:G:H5'	28:BE:57:LYS:HE3	1.99	0.45
29:BF:43:LYS:HG3	29:BF:98:SER:C	2.37	0.45
30:BG:100:TRP:C	30:BG:102:PHE:N	2.63	0.45
30:BG:139:LEU:O	30:BG:142:PRO:HD3	2.17	0.45
30:BG:39:ILE:HA	30:BG:157:ILE:HA	1.98	0.45
30:BG:33:ARG:NH2	30:BG:34:LEU:C	2.70	0.45
31:BH:111:HIS:O	31:BH:113:VAL:N	2.50	0.45
31:BH:150:ALA:O	31:BH:151:ILE:C	2.55	0.45
31:BH:46:GLU:O	31:BH:47:GLU:HB2	2.17	0.45
31:BH:58:GLU:O	31:BH:62:LYS:HG2	2.17	0.45
32:BK:28:ASN:O	32:BK:28:ASN:OD1	2.34	0.45
33:BL:115:LEU:O	33:BL:116:ASN:C	2.55	0.45
34:BM:22:THR:HG21	34:BM:61:ARG:NH1	2.31	0.45
34:BM:7:LYS:CE	34:BM:8:GLN:H	2.27	0.45
36:BO:96:THR:O	36:BO:102:ARG:CD	2.63	0.45
24:BA:637:A:OP1	36:BO:133:SER:HB3	2.16	0.45
36:BO:58:THR:HG22	36:BO:59:LEU:N	2.32	0.45
36:BO:76:LYS:HE2	36:BO:81:GLN:CD	2.37	0.45
36:BO:81:GLN:C	36:BO:86:LYS:HG3	2.37	0.45
37:BP:75:THR:HG21	37:BP:89:ASN:O	2.17	0.45
38:BQ:35:THR:HG22	38:BQ:113:LEU:CD2	2.47	0.45
38:BQ:65:LEU:HD23	38:BQ:65:LEU:O	2.16	0.45
39:BR:3:ARG:HH11	39:BR:3:ARG:CG	2.29	0.45
40:BS:39:ARG:HE	40:BS:39:ARG:HB3	1.60	0.45
40:BS:79:HIS:HB2	40:BS:82:LEU:CB	2.42	0.45
41:BT:61:TRP:N	41:BT:61:TRP:CD1	2.85	0.45
42:BU:1:MET:N	42:BU:45:THR:OG1	2.50	0.45
24:BA:566:U:H3'	42:BU:82:ARG:HH12	1.81	0.45
43:BV:41:LYS:HB3	43:BV:41:LYS:HZ2	1.78	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:BV:70:TYR:CE1	43:BV:72:LYS:HB2	2.52	0.45
43:BV:21:VAL:CG1	43:BV:75:TYR:CD2	2.99	0.45
45:BX:26:LYS:NZ	45:BX:36:ALA:HB3	2.32	0.45
45:BX:38:ILE:HG22	45:BX:38:ILE:O	2.17	0.45
45:BX:44:ILE:O	45:BX:45:VAL:C	2.55	0.45
45:BX:46:LYS:HB2	45:BX:57:GLN:N	2.31	0.45
45:BX:1:MET:HG2	45:BX:67:LEU:HD22	1.98	0.45
45:BX:71:LYS:N	45:BX:71:LYS:HD2	2.19	0.45
24:BA:2278:A:C5	47:BZ:14:ARG:HB3	2.51	0.45
47:BZ:46:LYS:HE2	47:BZ:77:ARG:H	1.82	0.45
32:BK:118:LYS:HG3	32:BK:119:PRO:HD2	1.98	0.45
32:BK:87:LYS:CE	32:BK:122:GLU:OE2	2.57	0.45
32:BK:86:THR:CG2	32:BK:87:LYS:N	2.76	0.45
3:AD:48:C:O2'	3:AD:49:C:P	2.74	0.45
24:BA:2133:G:N3	24:BA:2133:G:H2'	2.32	0.45
24:BA:1417:C:H2'	24:BA:1418:G:O5'	2.17	0.45
1:AA:1163:C:N4	1:AA:1174:G:C6	2.85	0.45
34:BM:139:GLU:O	34:BM:140:VAL:HG22	2.13	0.45
3:AD:66:U:N3	3:AD:67:C:C4	2.85	0.45
24:BA:1563:G:C6	24:BA:1564:C:C4	3.05	0.45
33:BL:120:LEU:HD23	33:BL:120:LEU:N	2.31	0.45
14:AO:125:PRO:C	14:AO:127:GLU:H	2.20	0.45
2:A1:13:U:H3'	2:A1:14:U:C5	2.52	0.45
1:AA:1056:U:O2	5:AF:195:VAL:CG2	2.62	0.45
1:AA:1057:G:C4	1:AA:1058:G:C8	3.05	0.45
1:AA:1236:A:H5''	1:AA:1305:G:OP1	2.17	0.45
1:AA:1308:U:H2'	1:AA:1309:G:H8	1.82	0.45
1:AA:1310:G:C2	1:AA:1328:C:C2	3.04	0.45
1:AA:266:G:C2'	1:AA:267:C:OP2	2.65	0.45
1:AA:318:G:O2'	1:AA:319:G:H5'	2.17	0.45
1:AA:47:C:C5	1:AA:365:U:O2	2.70	0.45
1:AA:538:G:OP2	14:AO:115:LYS:HB2	2.17	0.45
1:AA:689:C:C6	1:AA:690:G:C8	3.05	0.45
1:AA:702:A:C6	24:BA:1848:A:C2	3.05	0.45
1:AA:779:C:N4	1:AA:780:A:C2	2.85	0.45
1:AA:897:C:C2'	1:AA:898:G:O5'	2.65	0.45
1:AA:963:G:N1	1:AA:973:G:C6	2.85	0.45
4:AE:42:ILE:HD12	4:AE:202:PRO:HB2	1.90	0.45
5:AF:176:HIS:O	5:AF:177:THR:C	2.55	0.45
5:AF:187:ALA:HB3	5:AF:198:VAL:HG21	1.98	0.45
6:AG:15:GLU:OE2	6:AG:63:LYS:HE3	2.17	0.45
6:AG:198:VAL:HG23	6:AG:199:ASN:N	2.25	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AI:41:GLU:O	8:AI:42:GLU:HB3	2.16	0.45
9:AJ:51:GLN:NE2	9:AJ:58:PRO:HD3	2.31	0.45
9:AJ:71:PRO:HG2	9:AJ:96:GLN:HA	1.98	0.45
10:AK:114:THR:CG2	10:AK:119:LEU:HD23	2.41	0.45
10:AK:15:ASN:O	10:AK:16:ALA:C	2.55	0.45
10:AK:63:LEU:CD2	10:AK:63:LEU:N	2.80	0.45
11:AL:19:LEU:HD22	11:AL:20:ARG:N	2.32	0.45
12:AM:55:LYS:HG3	12:AM:55:LYS:O	2.16	0.45
1:AA:676:A:C4'	13:AN:114:VAL:O	2.65	0.45
13:AN:23:ALA:CB	13:AN:28:THR:CG2	2.95	0.45
1:AA:538:G:OP1	14:AO:114:LYS:HB2	2.16	0.45
1:AA:1228:C:O5'	15:AP:115:LYS:O	2.35	0.45
15:AP:26:GLY:C	15:AP:27:LYS:O	2.55	0.45
15:AP:48:LEU:HD22	15:AP:49:THR:O	2.17	0.45
16:AQ:45:ARG:NH1	16:AQ:45:ARG:CG	2.72	0.45
17:AR:66:LEU:H	17:AR:66:LEU:CD2	2.29	0.45
17:AR:69:TYR:O	17:AR:72:ARG:N	2.50	0.45
18:AS:34:GLU:OE2	18:AS:35:LYS:N	2.50	0.45
18:AS:8:ARG:HH12	18:AS:11:SER:CA	2.28	0.45
19:AT:97:SER:CB	19:AT:104:LYS:H	2.30	0.45
20:AU:67:ALA:HA	20:AU:70:ILE:CG1	2.46	0.45
8:AI:50:TYR:HH	20:AU:77:GLY:HA2	1.80	0.45
21:AV:25:LYS:O	21:AV:25:LYS:HD2	2.17	0.45
21:AV:45:VAL:HG22	21:AV:67:VAL:CG2	2.37	0.45
22:AW:12:ALA:C	22:AW:14:LYS:N	2.68	0.45
23:AX:6:ARG:HG3	23:AX:7:ARG:H	1.82	0.45
48:B1:19:LEU:HD11	48:B1:23:LYS:HD3	1.99	0.45
48:B1:55:LEU:C	48:B1:58:VAL:HG13	2.28	0.45
50:B3:61:ARG:O	50:B3:62:ARG:C	2.56	0.45
50:B3:64:GLY:C	50:B3:68:ARG:NH2	2.70	0.45
51:B4:10:LYS:HE3	51:B4:15:ARG:NH1	2.30	0.45
24:BA:2399:G:N3	52:B5:21:TYR:HE1	2.15	0.45
54:B7:22:VAL:O	54:B7:48:PHE:CD1	2.69	0.45
55:B8:29:ASN:HA	55:B8:30:PRO:HD2	1.84	0.45
24:BA:1009:A:H4'	41:BT:62:ILE:CG2	2.43	0.45
24:BA:1048:A:N3	24:BA:1048:A:H2'	2.32	0.45
24:BA:1049:C:N3	24:BA:1050:A:C6	2.85	0.45
24:BA:1122:G:N2	24:BA:1123:C:N1	2.64	0.45
24:BA:1155:A:H3'	24:BA:1155:A:P	2.57	0.45
24:BA:1161:C:H2'	24:BA:1162:G:O4'	2.16	0.45
24:BA:1444(A):A:H2'	24:BA:1460:A:O2'	2.17	0.45
24:BA:1451:C:C5'	24:BA:1453:A:H4'	2.46	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1518:C:C4	24:BA:1519:G:C8	3.05	0.45
24:BA:1596:A:C6	24:BA:1597:A:C5	3.05	0.45
24:BA:1635:G:H2'	24:BA:1636:C:O4'	2.17	0.45
24:BA:1636:C:O3'	24:BA:1760:A:O2'	2.34	0.45
24:BA:1704:G:N1	24:BA:1705:G:C4	2.84	0.45
24:BA:1784:A:C1'	24:BA:1785:A:C8	3.00	0.45
24:BA:1806:C:H2'	24:BA:1807:G:C5'	2.47	0.45
24:BA:1932:A:H3'	24:BA:1933:G:H8	1.81	0.45
24:BA:2051:A:C5	24:BA:2614:A:N6	2.85	0.45
24:BA:211:A:O2'	24:BA:212:G:H5'	2.17	0.45
24:BA:2227:A:H2'	24:BA:2228:G:O5'	2.16	0.45
24:BA:2232:U:H2'	24:BA:2233:U:H5'	1.99	0.45
24:BA:2257:U:C5'	47:BZ:11:ARG:HD3	2.46	0.45
24:BA:2306:C:N4	30:BG:43:LEU:HB3	2.32	0.45
24:BA:2346:A:O2'	24:BA:2347:C:OP2	2.32	0.45
3:AB:51:U:C2'	24:BA:2471:C:H4'	2.47	0.45
3:AB:52:G:C4'	24:BA:2471:C:OP1	2.49	0.45
24:BA:251:A:H2'	24:BA:252:G:C5'	2.46	0.45
24:BA:2520:C:C5	24:BA:2567:G:N9	2.85	0.45
24:BA:2689:U:H5'	24:BA:2690:C:H5'	1.98	0.45
24:BA:270(A):A:N6	24:BA:270(Z):U:O5'	2.50	0.45
24:BA:270(B):A:C1'	24:BA:270(C):C:H5	2.30	0.45
24:BA:2783:G:C6	24:BA:2784:C:C4	3.05	0.45
24:BA:2876:G:C4'	40:BS:1:MET:N	2.69	0.45
24:BA:324:A:C2	24:BA:325:G:C4	3.05	0.45
24:BA:324:A:H2	24:BA:325:G:H1'	1.82	0.45
24:BA:270(C):C:OP1	24:BA:365:C:O2	2.35	0.45
24:BA:371:A:C5	24:BA:424:G:O4'	2.69	0.45
24:BA:470:A:H2'	24:BA:471:A:O5'	2.17	0.45
24:BA:479:A:HO2'	24:BA:480:A:H3'	1.82	0.45
24:BA:493:G:O2'	24:BA:494:G:H5'	2.17	0.45
24:BA:499:U:O4	24:BA:500:G:N2	2.50	0.45
24:BA:523:C:H2'	24:BA:524:U:C5'	2.47	0.45
24:BA:583:G:C5	24:BA:584:C:C5	3.05	0.45
24:BA:237:C:O2'	24:BA:608:A:H4'	2.17	0.45
24:BA:611:C:O2	24:BA:612:G:H1'	2.16	0.45
24:BA:649:G:C2	24:BA:650:C:H1'	2.52	0.45
24:BA:733:G:O6	24:BA:761:A:N9	2.50	0.45
24:BA:762:U:H1'	24:BA:763:G:C4	2.51	0.45
24:BA:803:U:H2'	24:BA:804:A:O4'	2.17	0.45
24:BA:848:G:H1'	24:BA:934:G:O4'	2.17	0.45
24:BA:972:G:H5''	24:BA:974:G:P	2.56	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:146:GLU:OE2	27:BD:150:LYS:N	2.50	0.45
27:BD:174:ILE:H	27:BD:174:ILE:HD12	1.79	0.45
27:BD:208:LYS:NZ	27:BD:211:ARG:CZ	2.80	0.45
28:BE:105:THR:HG21	28:BE:199:ARG:NH2	2.32	0.45
29:BF:32:LEU:HD21	29:BF:105:VAL:CG1	2.47	0.45
29:BF:133:ASN:CB	29:BF:162:LEU:HD13	2.47	0.45
29:BF:8:GLN:HB3	29:BF:18:ARG:CB	2.47	0.45
24:BA:449:A:OP2	29:BF:85:GLY:HA2	2.16	0.45
30:BG:33:ARG:HH22	30:BG:34:LEU:C	2.20	0.45
30:BG:36:LYS:CA	30:BG:95:ARG:O	2.64	0.45
30:BG:96:ARG:NH1	30:BG:96:ARG:HB2	2.32	0.45
31:BH:149:ARG:HH12	31:BH:164:TYR:HB3	1.81	0.45
31:BH:25:LYS:HE3	31:BH:34:GLU:OE2	2.16	0.45
31:BH:43:VAL:HG13	31:BH:44:VAL:H	1.82	0.45
31:BH:76:VAL:CA	31:BH:79:VAL:HG22	2.45	0.45
33:BL:127:ILE:O	33:BL:131:ALA:HB2	2.17	0.45
33:BL:7:VAL:CG2	33:BL:56:GLU:OE1	2.65	0.45
35:BN:63:VAL:HG21	35:BN:81:ASP:CA	2.47	0.45
36:BO:97:PRO:HB3	36:BO:102:ARG:HH11	1.80	0.45
36:BO:102:ARG:O	36:BO:108:LYS:HB2	2.18	0.45
36:BO:46:LYS:CB	36:BO:49:ARG:NH1	2.78	0.45
36:BO:78:PRO:O	36:BO:81:GLN:HB2	2.17	0.45
37:BP:130:LYS:HE3	37:BP:131:ILE:CA	2.47	0.45
37:BP:131:ILE:CG2	37:BP:132:VAL:N	2.80	0.45
37:BP:74:TYR:CD2	37:BP:92:GLY:O	2.70	0.45
25:BB:116:G:H5'	39:BR:53:SER:HA	1.99	0.45
39:BR:93:LYS:CG	39:BR:94:TYR:N	2.80	0.45
41:BT:86:ALA:HB3	41:BT:90:VAL:HG22	1.99	0.45
41:BT:98:LEU:HD13	41:BT:98:LEU:HA	1.84	0.45
41:BT:89:GLU:HB2	42:BU:51:VAL:HB	1.98	0.45
24:BA:1161:C:O4'	42:BU:8:GLY:HA3	2.17	0.45
43:BV:24:ILE:CD1	43:BV:36:LEU:HD13	2.44	0.45
24:BA:1312:U:C6	44:BW:62:LYS:HG3	2.52	0.45
45:BX:14:LEU:HD22	45:BX:19:LYS:CB	2.39	0.45
45:BX:65:ALA:O	45:BX:66:PRO:O	2.35	0.45
46:BY:18:LEU:HD22	46:BY:23:LYS:HG2	1.97	0.45
46:BY:37:VAL:C	46:BY:38:TYR:CD2	2.91	0.45
25:BB:77:U:H5'	46:BY:84:GLU:HB3	1.99	0.45
47:BZ:64:ASP:HB3	47:BZ:84:LEU:CD1	2.27	0.45
32:BK:87:LYS:HE2	32:BK:121:LYS:CG	2.23	0.45
26:BC:223:ARG:CG	26:BC:224:ILE:N	2.80	0.45
15:AP:122:LYS:O	15:AP:123:ALA:HB2	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AD:30:G:H2'	3:AD:31:A:C8	2.52	0.45
1:AA:1068:G:N2	1:AA:1191:A:C2	2.85	0.44
1:AA:1236:A:H2'	1:AA:1237:C:C6	2.53	0.44
1:AA:1267:C:N4	1:AA:1268:A:N1	2.62	0.44
1:AA:1319:A:OP2	21:AV:5:LEU:HD13	2.17	0.44
1:AA:1333:A:O5'	1:AA:1333:A:C8	2.64	0.44
1:AA:1336:C:C2'	1:AA:1337:G:OP2	2.65	0.44
1:AA:133:U:O3'	1:AA:134:A:C8	2.70	0.44
1:AA:1349:A:O2'	1:AA:1350:A:H5'	2.17	0.44
1:AA:1315:U:O2'	1:AA:1360:A:C1'	2.64	0.44
1:AA:1402:C:H2'	1:AA:1403:C:O5'	2.18	0.44
1:AA:1412:C:C2	1:AA:1413:A:C8	3.05	0.44
1:AA:1446:A:N3	1:AA:1446:A:O4'	2.50	0.44
1:AA:1495:U:C2'	1:AA:1496:C:O5'	2.65	0.44
1:AA:1498:U:HO2'	1:AA:1499:A:C5'	2.30	0.44
1:AA:1511:G:C6	1:AA:1512:U:C4	3.06	0.44
1:AA:819:A:N3	1:AA:1529:G:O6	2.50	0.44
1:AA:186(B):C:N3	1:AA:186(C):G:C8	2.84	0.44
1:AA:186(D):C:C2	1:AA:186(E):C:C5	3.05	0.44
1:AA:19:C:N3	1:AA:20:U:H5	2.14	0.44
1:AA:242:C:C2'	1:AA:243:A:O5'	2.65	0.44
1:AA:246:A:HO2'	1:AA:247:G:C4'	2.24	0.44
1:AA:113:G:O4'	1:AA:354:G:H5''	2.17	0.44
1:AA:363:A:N1	1:AA:364:A:C2	2.85	0.44
1:AA:393:A:C5	1:AA:394:G:N7	2.85	0.44
1:AA:530:G:H5'	1:AA:531:U:H5''	1.99	0.44
1:AA:563:A:C2	1:AA:567:G:C4	3.05	0.44
1:AA:568:G:H2'	1:AA:569:C:C6	2.52	0.44
1:AA:597:G:C4	1:AA:644:G:C2	3.06	0.44
1:AA:664:G:OP1	20:AU:64:ARG:NE	2.25	0.44
1:AA:721:G:H1'	1:AA:722:A:C2	2.52	0.44
1:AA:754:C:C2'	1:AA:754:C:O2	2.64	0.44
1:AA:828:A:C5'	1:AA:859:A:N1	2.80	0.44
1:AA:88:C:O2'	1:AA:89:U:O5'	2.35	0.44
1:AA:988:G:N1	1:AA:989:C:C2	2.85	0.44
2:A1:46:U:C2	3:AB:34:G:C2	3.05	0.44
3:AD:73:A:N3	3:AD:73:A:H2'	2.32	0.44
4:AE:115:LEU:HA	4:AE:145:LEU:HD23	1.99	0.44
4:AE:28:PHE:HA	4:AE:194:PRO:HG2	1.99	0.44
4:AE:49:GLU:HA	4:AE:52:GLU:OE2	2.17	0.44
5:AF:130:VAL:O	5:AF:134:ILE:HD13	2.17	0.44
5:AF:138:VAL:HG13	5:AF:149:ALA:HB1	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:28:GLN:CA	5:AF:30:ARG:CZ	2.95	0.44
5:AF:64:VAL:O	5:AF:65:ALA:C	2.54	0.44
6:AG:80:GLU:O	6:AG:83:SER:CB	2.66	0.44
7:AH:105:VAL:HG12	7:AH:106:PRO:HD3	1.99	0.44
7:AH:10:MET:O	7:AH:10:MET:SD	2.75	0.44
1:AA:8:A:C5'	7:AH:120:THR:O	2.65	0.44
7:AH:12:LEU:HD12	7:AH:31:LEU:N	2.32	0.44
9:AJ:64:GLN:HB3	9:AJ:128:ALA:CB	2.45	0.44
10:AK:113:SER:O	10:AK:131:GLY:CA	2.65	0.44
10:AK:10:LEU:CD2	10:AK:135:CYS:SG	3.04	0.44
10:AK:44:PHE:O	10:AK:64:LYS:HD3	2.17	0.44
4:AE:181:PHE:CE1	10:AK:71:GLY:HA3	2.52	0.44
11:AL:91:ASP:O	11:AL:91:ASP:CG	2.54	0.44
13:AN:100:ALA:O	13:AN:102:GLY:N	2.50	0.44
13:AN:31:THR:HG23	13:AN:42:TRP:HB3	1.98	0.44
13:AN:43:SER:HA	13:AN:47:VAL:HG11	1.99	0.44
14:AO:26:ALA:C	14:AO:27:LEU:O	2.52	0.44
14:AO:55:VAL:O	14:AO:70:ILE:HD11	2.16	0.44
14:AO:88:GLY:O	14:AO:89:ARG:C	2.55	0.44
14:AO:85:ILE:CG1	14:AO:98:TYR:HB3	2.47	0.44
1:AA:953:G:O3'	15:AP:124:PRO:O	2.36	0.44
15:AP:17:VAL:HG12	15:AP:21:TYR:OH	2.17	0.44
15:AP:40:ASN:C	15:AP:42:ALA:N	2.69	0.44
18:AS:14:ASN:O	18:AS:14:ASN:CG	2.56	0.44
18:AS:8:ARG:NH1	18:AS:14:ASN:O	2.50	0.44
19:AT:61:GLU:CA	19:AT:71:PHE:CE2	2.97	0.44
19:AT:7:THR:CG2	19:AT:56:VAL:CG1	2.85	0.44
19:AT:86:GLU:O	19:AT:89:LEU:N	2.50	0.44
21:AV:50:ALA:HB1	21:AV:57:HIS:CB	2.46	0.44
22:AW:23:ARG:CD	22:AW:24:LEU:N	2.78	0.44
22:AW:33:ILE:O	22:AW:34:LYS:C	2.53	0.44
22:AW:61:SER:HG	22:AW:62:LEU:H	1.65	0.44
22:AW:98:PRO:O	22:AW:99:LEU:C	2.54	0.44
48:B1:16:LEU:HD12	48:B1:16:LEU:O	2.18	0.44
48:B1:36:ILE:CG2	48:B1:37:GLY:H	2.17	0.44
48:B1:37:GLY:O	48:B1:38:GLN:HB2	2.17	0.44
49:B2:41:PRO:HA	49:B2:44:ARG:NE	2.32	0.44
50:B3:20:ASN:CB	50:B3:30:GLU:OE2	2.64	0.44
50:B3:35:VAL:CG1	50:B3:36:CYS:N	2.79	0.44
50:B3:57:GLU:H	50:B3:61:ARG:HG2	1.82	0.44
50:B3:6:HIS:CB	50:B3:7:PRO:HD3	2.46	0.44
52:B5:20:ASN:HD22	52:B5:43:CYS:H	1.62	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:B5:49:HIS:HB3	52:B5:50:ARG:H	1.61	0.44
24:BA:1309:G:H5''	53:B6:9:ARG:H	1.81	0.44
54:B7:44:LYS:CE	54:B7:44:LYS:HA	2.46	0.44
24:BA:1024:G:P	24:BA:1025:G:H3'	2.58	0.44
24:BA:1044:G:O4'	24:BA:1047:G:O2'	2.33	0.44
24:BA:1053:C:C4	24:BA:1054:A:C6	3.05	0.44
24:BA:1142:U:C6	24:BA:1142(A):A:C8	2.84	0.44
24:BA:1182:A:H3'	24:BA:1183:G:C3'	2.28	0.44
24:BA:1196:C:C2	24:BA:1197:G:C8	3.05	0.44
24:BA:1198:U:C2	24:BA:1199:U:C5	3.05	0.44
24:BA:1444(A):A:C8	24:BA:1460:A:C2'	3.00	0.44
24:BA:1332:G:C4	24:BA:1609:A:C6	3.05	0.44
24:BA:1621:U:C3'	24:BA:1621:U:C6	2.99	0.44
24:BA:1668:A:O2'	24:BA:1669:A:C4	2.63	0.44
24:BA:1798:U:N3	24:BA:1819:A:C2	2.84	0.44
24:BA:191:A:N3	24:BA:192:C:H1'	2.32	0.44
24:BA:1992:G:O2'	24:BA:1993:U:H5	2.00	0.44
24:BA:2049:G:O2'	24:BA:2050:C:P	2.75	0.44
24:BA:2090:G:C6	24:BA:2230:G:C6	3.05	0.44
24:BA:2309:A:C4	24:BA:2310:A:C8	3.05	0.44
24:BA:2306:C:N4	24:BA:2311:A:C2	2.83	0.44
24:BA:233:A:C2'	24:BA:234:C:O5'	2.64	0.44
24:BA:2383:G:N2	24:BA:2384:G:C4	2.86	0.44
24:BA:2392:A:N6	24:BA:2393:A:C6	2.85	0.44
24:BA:2457:U:O4	24:BA:2458:G:N2	2.50	0.44
24:BA:2507:C:C1'	24:BA:2583:G:N2	2.80	0.44
24:BA:2593:U:O4	27:BD:239:ARG:CZ	2.65	0.44
24:BA:2624:G:C3'	24:BA:2625:G:H5''	2.47	0.44
24:BA:2692:C:HO2'	24:BA:2847:U:C2'	2.26	0.44
24:BA:2694:G:H2'	24:BA:2695:C:O5'	2.16	0.44
24:BA:2695:C:O2	24:BA:2696:U:C5	2.70	0.44
24:BA:2715:C:C2	24:BA:2716:U:C5	3.05	0.44
24:BA:278:A:H2'	24:BA:279:C:C6	2.52	0.44
24:BA:2849:U:H3	24:BA:2867:G:H1'	1.82	0.44
24:BA:2897:U:H2'	24:BA:2898:U:H6	1.82	0.44
24:BA:322:A:O5'	24:BA:341:G:H5'	2.17	0.44
24:BA:348:G:C4	24:BA:349:G:N7	2.85	0.44
24:BA:398:G:N2	24:BA:399:G:H1'	2.33	0.44
24:BA:422:A:C2'	24:BA:423:A:O5'	2.65	0.44
24:BA:446:G:OP1	41:BT:3:ARG:HD3	2.17	0.44
24:BA:597:U:H2'	24:BA:598:G:C8	2.51	0.44
24:BA:609:A:N6	24:BA:609(A):G:O6	2.49	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:614:U:C5'	24:BA:615:G:OP2	2.64	0.44
24:BA:618(A):C:OP2	29:BF:107:LYS:NZ	2.49	0.44
24:BA:702:G:C2'	24:BA:703:U:C5'	2.94	0.44
24:BA:76:C:OP2	24:BA:76:C:C5	2.70	0.44
24:BA:785:G:N3	24:BA:786:C:C6	2.85	0.44
24:BA:813:U:H2'	24:BA:814:C:C6	2.51	0.44
24:BA:813:U:H2'	24:BA:814:C:H6	1.82	0.44
24:BA:890:A:H5'	24:BA:892:G:H5''	2.00	0.44
24:BA:945:A:H3'	24:BA:946:G:C5'	2.47	0.44
24:BA:980:A:N3	24:BA:2037:G:O2'	2.42	0.44
25:BB:46:A:H2'	25:BB:47:C:O4'	2.17	0.44
27:BD:183:ARG:CZ	27:BD:268:ARG:HD2	2.46	0.44
27:BD:173:VAL:O	27:BD:184:LYS:CG	2.65	0.44
27:BD:57:GLY:N	27:BD:217:ARG:CD	2.73	0.44
27:BD:63:ARG:NH1	27:BD:87:ASN:ND2	2.56	0.44
28:BE:97:LYS:O	28:BE:100:GLU:OE1	2.35	0.44
28:BE:128:SER:OG	28:BE:129:HIS:CD2	2.67	0.44
28:BE:13:ARG:CZ	28:BE:21:VAL:N	2.80	0.44
28:BE:169:ASN:C	28:BE:170:LEU:HD23	2.35	0.44
28:BE:172:VAL:O	28:BE:174:ASP:N	2.50	0.44
28:BE:195:LEU:HD13	28:BE:196:VAL:CA	2.42	0.44
28:BE:33:VAL:CG2	28:BE:34:VAL:N	2.80	0.44
28:BE:59:VAL:HG12	28:BE:61:ARG:N	2.32	0.44
29:BF:34:TRP:HB3	29:BF:38:ARG:NH2	2.31	0.44
30:BG:77:ILE:O	30:BG:78:SER:C	2.56	0.44
30:BG:4:ASP:C	30:BG:7:LEU:HB2	2.37	0.44
24:BA:2309:A:N6	30:BG:80:PHE:CZ	2.85	0.44
30:BG:78:SER:CB	30:BG:82:LEU:HB3	2.45	0.44
31:BH:159:GLU:OE2	31:BH:163:TYR:CE1	2.70	0.44
33:BL:10:LEU:HB2	33:BL:12:LEU:HD21	1.99	0.44
33:BL:37:PHE:HE2	33:BL:65:PHE:CB	2.28	0.44
34:BM:99:LEU:O	34:BM:103:VAL:HG13	2.17	0.44
34:BM:16:ILE:O	34:BM:54:VAL:CG2	2.64	0.44
34:BM:39:ARG:HG2	34:BM:40:PRO:N	2.32	0.44
34:BM:86:PRO:CD	34:BM:89:LYS:HD2	2.43	0.44
34:BM:90:MET:HB3	34:BM:91:LEU:HD23	1.99	0.44
36:BO:117:GLU:O	36:BO:121:LYS:CG	2.58	0.44
36:BO:16:ARG:CG	36:BO:19:VAL:CG2	2.92	0.44
36:BO:23:PRO:HG2	36:BO:28:GLY:C	2.38	0.44
36:BO:23:PRO:HB3	36:BO:29:LYS:H	1.74	0.44
36:BO:74:GLU:HB2	36:BO:107:LYS:CD	2.47	0.44
36:BO:96:THR:HB	36:BO:99:LEU:CB	2.47	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:17:LEU:C	37:BP:18:LYS:HG2	2.37	0.44
37:BP:56:ARG:O	37:BP:57:HIS:C	2.54	0.44
37:BP:75:THR:CG2	37:BP:77:LYS:CD	2.94	0.44
37:BP:85:LYS:HD2	47:BZ:10:THR:OG1	2.16	0.44
38:BQ:34:ILE:O	38:BQ:113:LEU:HD22	2.17	0.44
38:BQ:22:ARG:CD	38:BQ:69:ASP:O	2.65	0.44
38:BQ:96:ARG:HG3	38:BQ:98:LEU:HD11	1.96	0.44
41:BT:98:LEU:HD12	41:BT:105:VAL:HG11	1.99	0.44
41:BT:105:VAL:HG12	41:BT:106:PHE:N	2.32	0.44
41:BT:43:GLY:C	41:BT:45:TYR:N	2.68	0.44
41:BT:61:TRP:C	41:BT:65:ILE:HD11	2.37	0.44
43:BV:20:VAL:HG21	43:BV:47:VAL:HG21	1.99	0.44
43:BV:7:ALA:N	43:BV:103:ILE:CD1	2.80	0.44
44:BW:3:THR:N	44:BW:5:TYR:CE2	2.85	0.44
44:BW:4:ALA:HB3	48:B1:21:ARG:CZ	2.47	0.44
46:BY:25:PRO:O	46:BY:85:HIS:HD2	2.00	0.44
47:BZ:72:ARG:O	47:BZ:75:LEU:HD13	2.17	0.44
32:BK:97:ILE:HG22	32:BK:101:LEU:CD2	2.47	0.44
3:AD:16:U:H4'	3:AD:18:G:O5'	2.17	0.44
3:AD:50:U:C4	3:AD:65:G:C6	3.05	0.44
24:BA:2119:A:C6	24:BA:2170:A:C6	3.06	0.44
24:BA:2104:G:H2'	24:BA:2104:G:N3	2.33	0.44
24:BA:1284:A:O2'	24:BA:1285:G:H5'	2.17	0.44
24:BA:1040:C:OP2	24:BA:1040:C:H6	1.99	0.44
31:BH:10:PRO:O	31:BH:12:PRO:HD2	2.17	0.44
1:AA:1034:G:C2	1:AA:1035:A:N7	2.85	0.44
1:AA:1080:A:H4'	7:AH:16:THR:HG1	1.81	0.44
1:AA:1068:G:N2	1:AA:1191:A:N3	2.50	0.44
1:AA:1203:C:H2'	1:AA:1204:A:C8	2.51	0.44
1:AA:1241:G:O2'	1:AA:1242:C:C5'	2.65	0.44
1:AA:1252:A:N6	1:AA:1253:G:C6	2.85	0.44
1:AA:1255:G:HO2'	1:AA:1258:G:HO2'	1.63	0.44
1:AA:1320:C:N3	21:AV:72:GLY:HA3	2.31	0.44
1:AA:1309:G:C6	1:AA:1329:A:C6	3.05	0.44
1:AA:1350:A:C5	1:AA:1351:U:C5	3.06	0.44
1:AA:1419:G:O2'	1:AA:1420:C:O5'	2.34	0.44
1:AA:1465:C:C2	1:AA:1466:C:C6	3.06	0.44
1:AA:1506:U:H3'	1:AA:1507:A:H5'	1.99	0.44
1:AA:119:A:N6	1:AA:287:U:C2	2.78	0.44
1:AA:321:A:C4	1:AA:322:C:C5	3.06	0.44
1:AA:483:C:O5'	1:AA:483:C:C6	2.69	0.44
1:AA:517:G:C8	1:AA:531:U:C6	3.06	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:557:G:H3'	1:AA:558:G:H8	1.74	0.44
1:AA:26:A:N6	1:AA:558:G:H1'	2.32	0.44
1:AA:563:A:O2'	1:AA:566:G:H2'	2.17	0.44
1:AA:579:G:H2'	1:AA:580:U:H6	1.82	0.44
1:AA:632:A:H2'	1:AA:633:G:O4'	2.16	0.44
1:AA:696:A:C2	1:AA:697:U:C1'	3.00	0.44
1:AA:720:C:C4	1:AA:721:G:H2'	2.51	0.44
1:AA:836:G:N1	1:AA:837:G:C5	2.85	0.44
1:AA:878:G:OP1	10:AK:88:LYS:HB2	2.17	0.44
3:AB:52:G:H4'	24:BA:2471:C:C5'	2.46	0.44
3:AC:17:C:H4'	3:AC:17:C:OP2	2.16	0.44
3:AC:20:U:OP1	3:AC:20:U:O4'	2.35	0.44
1:AA:1339:A:H2	3:AC:31:A:HO2'	1.58	0.44
3:AC:31:A:C5'	3:AC:32:U:OP2	2.62	0.44
4:AE:80:ILE:HG13	4:AE:239:VAL:HG21	2.00	0.44
4:AE:87:ARG:CZ	4:AE:87:ARG:HB3	2.46	0.44
5:AF:96:GLY:O	5:AF:98:ASN:N	2.49	0.44
6:AG:39:PRO:HG2	6:AG:44:GLY:O	2.17	0.44
7:AH:23:GLY:HA3	7:AH:25:ARG:CZ	2.45	0.44
7:AH:71:LEU:HD11	7:AH:74:GLY:CA	2.37	0.44
7:AH:91:LEU:HD12	7:AH:118:ILE:HG21	1.97	0.44
8:AI:95:GLU:N	8:AI:96:PRO:CD	2.64	0.44
9:AJ:146:GLU:HG2	9:AJ:149:ARG:HD2	1.99	0.44
9:AJ:69:VAL:HG13	9:AJ:135:VAL:HA	1.98	0.44
10:AK:26:VAL:CG2	10:AK:27:PRO:CD	2.87	0.44
10:AK:44:PHE:HA	10:AK:79:VAL:CG1	2.47	0.44
10:AK:6:ILE:CG2	10:AK:7:ALA:N	2.59	0.44
13:AN:84:VAL:HG11	20:AU:88:LYS:HE2	1.98	0.44
15:AP:13:LYS:HD3	15:AP:17:VAL:CG1	2.46	0.44
18:AS:16:HIS:C	18:AS:17:TYR:HD1	2.19	0.44
1:AA:230:G:OP1	18:AS:33:ILE:HG12	2.18	0.44
20:AU:86:VAL:O	20:AU:87:ARG:CB	2.59	0.44
21:AV:36:ARG:HA	21:AV:71:LEU:HD13	1.97	0.44
22:AW:13:LEU:CD1	22:AW:13:LEU:N	2.57	0.44
48:B1:24:LYS:HG2	48:B1:52:ILE:HD13	1.98	0.44
49:B2:17:LYS:HA	49:B2:20:LYS:CD	2.47	0.44
49:B2:45:GLY:O	49:B2:48:GLU:CG	2.50	0.44
50:B3:29:PRO:O	50:B3:31:ILE:CD1	2.65	0.44
43:BV:23:LEU:HG	51:B4:25:LEU:HG	1.99	0.44
51:B4:29:THR:C	51:B4:30:LEU:CG	2.85	0.44
54:B7:15:LYS:HZ1	54:B7:64:TYR:HB3	1.83	0.44
24:BA:2526:G:O2'	55:B8:35:ARG:NH2	2.49	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1022:G:C6	24:BA:1139:G:C6	3.05	0.44
24:BA:1203:G:O6	24:BA:1240:U:C2'	2.62	0.44
24:BA:1207:C:N3	24:BA:1208:C:C4	2.86	0.44
24:BA:1228:G:C8	24:BA:1228:G:H5'	2.52	0.44
24:BA:1267:U:C4	24:BA:2012:G:N2	2.86	0.44
24:BA:1353:A:C2'	24:BA:1354:A:O4'	2.65	0.44
24:BA:1385:G:C6	24:BA:1386:C:N4	2.85	0.44
24:BA:1432:C:N3	24:BA:1433:U:C2	2.85	0.44
24:BA:1449:A:O4'	24:BA:1529:A:C6	2.70	0.44
24:BA:1491:G:C2	24:BA:1493:C:N4	2.78	0.44
24:BA:1477:A:C2	24:BA:1516:U:O2	2.70	0.44
24:BA:1662:C:N3	24:BA:1663:C:C4	2.85	0.44
24:BA:173:G:N2	24:BA:174:C:N1	2.66	0.44
24:BA:1819:A:O2'	24:BA:1820:U:O5'	2.35	0.44
24:BA:1899:G:N2	24:BA:1901:A:C6	2.85	0.44
24:BA:1947:C:N3	24:BA:1948:G:N7	2.64	0.44
24:BA:196:A:H3'	24:BA:197:A:C5'	2.43	0.44
24:BA:2011:U:C3'	24:BA:2012:G:H8	2.30	0.44
24:BA:2084:C:O2'	24:BA:2085:C:H5'	2.17	0.44
24:BA:210:C:H5''	53:B6:29:LYS:HZ3	1.82	0.44
24:BA:2210:G:HO2'	24:BA:2211:G:P	2.40	0.44
24:BA:228:A:N6	24:BA:230:U:C2	2.86	0.44
24:BA:2356:C:H2'	24:BA:2357:U:O5'	2.18	0.44
24:BA:2568:C:O5'	24:BA:2568:C:H6	2.00	0.44
24:BA:2657:A:N7	24:BA:2658:C:C5	2.85	0.44
24:BA:2661:G:C4	24:BA:2662:A:C8	3.05	0.44
24:BA:2681:C:C2'	24:BA:2682:U:H5'	2.45	0.44
24:BA:2687:U:O2	24:BA:2688:U:O4'	2.35	0.44
24:BA:2697:G:HO2'	24:BA:2698:U:H5'	1.82	0.44
24:BA:270(C):C:P	24:BA:365:C:H1'	2.58	0.44
24:BA:2710:C:H2'	24:BA:2711:A:C5'	2.47	0.44
24:BA:2726:U:O2'	24:BA:2727:G:OP1	2.29	0.44
24:BA:2642:G:C2	24:BA:2773:C:C2	3.05	0.44
24:BA:2825:C:C2	24:BA:2826:A:C8	3.05	0.44
24:BA:2839:G:C6	24:BA:2840:C:C4	3.05	0.44
24:BA:2839:G:H2'	24:BA:2840:C:O4'	2.17	0.44
24:BA:297:C:H3'	24:BA:298:G:N7	2.31	0.44
24:BA:325:G:C8	24:BA:325:G:H3'	2.53	0.44
24:BA:332:A:C2'	24:BA:334:C:OP2	2.65	0.44
24:BA:370:G:C2'	24:BA:371:A:O5'	2.65	0.44
24:BA:447:A:C6	24:BA:473:G:C1'	3.00	0.44
24:BA:456:C:N4	44:BW:68:ARG:HB3	2.32	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:539:G:O5'	24:BA:539:G:H8	2.00	0.44
24:BA:542:C:C4	24:BA:552:G:N1	2.85	0.44
24:BA:601:C:C2'	24:BA:601:C:O2	2.61	0.44
24:BA:617:G:N7	24:BA:618:G:N7	2.64	0.44
24:BA:660:G:C6	24:BA:661:C:C4	3.05	0.44
24:BA:727:A:H2'	24:BA:728:G:C5'	2.43	0.44
24:BA:748:G:H5'	43:BV:88:ARG:CZ	2.47	0.44
24:BA:850:C:O2	24:BA:851:U:C6	2.70	0.44
24:BA:919:G:C4	24:BA:920:G:N7	2.86	0.44
25:BB:21:G:C2	25:BB:63:G:C6	3.04	0.44
27:BD:54:ARG:CA	27:BD:219:PRO:CG	2.90	0.44
28:BE:178:GLU:HB3	28:BE:179:GLU:OE2	2.17	0.44
24:BA:2787:C:H4'	28:BE:60:ASN:OD1	2.17	0.44
28:BE:66:HIS:O	28:BE:68:ALA:N	2.50	0.44
29:BF:12:LEU:HD22	29:BF:128:ALA:HA	1.98	0.44
30:BG:157:ILE:CG1	30:BG:158:ALA:N	2.79	0.44
30:BG:50:ALA:HA	30:BG:70:VAL:HG22	2.00	0.44
31:BH:75:ALA:O	31:BH:79:VAL:HG13	2.17	0.44
32:BK:6:LEU:C	32:BK:6:LEU:HD23	2.37	0.44
33:BL:27:LEU:CA	33:BL:32:ALA:HB3	2.47	0.44
34:BM:109:LYS:HE3	34:BM:111:PRO:HD2	1.99	0.44
34:BM:38:HIS:O	34:BM:42:TRP:HZ3	2.00	0.44
34:BM:89:LYS:O	34:BM:92:ALA:HB3	2.17	0.44
35:BN:3:GLN:C	35:BN:3:GLN:CD	2.76	0.44
36:BO:128:HIS:CG	36:BO:129:ALA:N	2.74	0.44
36:BO:51:PHE:O	36:BO:52:GLU:C	2.54	0.44
36:BO:77:ARG:HA	36:BO:78:PRO:HD2	1.90	0.44
37:BP:67:ARG:NH2	37:BP:103:MET:CB	2.78	0.44
38:BQ:53:HIS:C	38:BQ:53:HIS:HD1	2.21	0.44
24:BA:2820:A:OP1	38:BQ:5:LYS:CE	2.65	0.44
38:BQ:63:ARG:HH12	38:BQ:80:PHE:HB3	1.82	0.44
40:BS:64:ARG:NH1	40:BS:78:LEU:N	2.65	0.44
40:BS:93:ARG:CG	40:BS:95:ARG:NH1	2.80	0.44
43:BV:11:ARG:O	43:BV:11:ARG:CG	2.62	0.44
43:BV:10:VAL:CB	43:BV:12:ILE:HD11	2.45	0.44
43:BV:18:ARG:CD	43:BV:76:VAL:H	2.29	0.44
43:BV:79:GLY:HA3	43:BV:102:HIS:CE1	2.52	0.44
44:BW:50:LYS:NZ	44:BW:87:GLN:H	2.15	0.44
46:BY:18:LEU:CB	46:BY:23:LYS:O	2.61	0.44
46:BY:6:LYS:HA	46:BY:37:VAL:HG13	1.97	0.44
32:BK:114:LEU:O	32:BK:131:LYS:HE3	2.17	0.44
32:BK:81:VAL:CG1	32:BK:88:ILE:HG12	2.47	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2111:C:N4	24:BA:2144:U:O2'	2.45	0.44
26:BC:162:GLU:O	26:BC:163:PHE:HD2	1.98	0.44
1:AA:1382:C:C4	1:AA:1383:C:N4	2.83	0.44
24:BA:2182:G:C6	24:BA:2183:C:C4	3.04	0.44
33:BL:47:ASN:OD1	33:BL:47:ASN:O	2.34	0.44
22:AW:94:ALA:O	22:AW:95:ALA:HB3	2.17	0.44
1:AA:1000:A:N6	1:AA:1001:G:O6	2.50	0.44
1:AA:1025:U:O2	1:AA:1026:G:O6	2.36	0.44
1:AA:1068:G:O2'	1:AA:1069:C:C5'	2.55	0.44
1:AA:110:C:H6	1:AA:110:C:P	2.40	0.44
1:AA:1148:U:O2	1:AA:1149:C:C1'	2.66	0.44
1:AA:1152:A:N1	1:AA:1153:C:C4	2.86	0.44
1:AA:122:G:C2	1:AA:123:C:C1'	3.00	0.44
1:AA:1268:A:C2'	1:AA:1269:A:O5'	2.65	0.44
1:AA:1477:C:H2'	1:AA:1478:C:O4'	2.17	0.44
1:AA:251:G:O4'	1:AA:252:U:H5	2.00	0.44
1:AA:279:A:H5'	1:AA:280:C:C3'	2.33	0.44
1:AA:46:G:N3	1:AA:396:G:N1	2.66	0.44
1:AA:483:C:OP2	1:AA:483:C:C6	2.71	0.44
1:AA:580:U:C5'	17:AR:58:MET:HG2	2.48	0.44
1:AA:641:U:O2'	1:AA:642:A:N7	2.50	0.44
1:AA:644:G:H2'	1:AA:645:C:C5'	2.48	0.44
1:AA:692:U:C2	1:AA:694:A:OP2	2.71	0.44
1:AA:701:C:H1'	1:AA:703:G:C6	2.53	0.44
1:AA:706:A:H2'	1:AA:707:C:O5'	2.17	0.44
1:AA:828:A:C8	1:AA:829:G:N9	2.85	0.44
1:AA:867:G:C2	1:AA:868:C:C4	3.06	0.44
1:AA:89:U:N3	1:AA:90:C:C4	2.85	0.44
1:AA:943:U:H6	1:AA:943:U:O5'	2.00	0.44
1:AA:965:A:N7	1:AA:969:A:N3	2.66	0.44
3:AB:16:U:H4'	3:AB:60:U:O2'	2.17	0.44
3:AB:75:C:C4	3:AB:76:A:H2	2.34	0.44
3:AC:57:G:O4'	30:BG:82:LEU:HD22	2.17	0.44
3:AC:72:C:C2'	3:AC:73:A:C8	2.95	0.44
4:AE:132:LYS:NZ	4:AE:132:LYS:HB3	2.29	0.44
4:AE:140:HIS:HA	4:AE:143:GLU:HB3	1.99	0.44
4:AE:171:ALA:N	4:AE:174:VAL:HG23	2.32	0.44
1:AA:1111:A:N1	5:AF:177:THR:HB	2.33	0.44
5:AF:5:ILE:HG22	12:AM:51:ARG:HH22	1.83	0.44
6:AG:120:LEU:HG	6:AG:121:VAL:H	1.82	0.44
6:AG:135:LEU:HB2	6:AG:138:TYR:HB2	1.99	0.44
7:AH:82:VAL:HB	7:AH:138:ALA:HB2	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AI:30:LEU:CB	8:AI:35:ALA:HB3	2.44	0.44
8:AI:41:GLU:CB	8:AI:62:TRP:HE3	2.26	0.44
9:AJ:126:ASP:CA	9:AJ:131:LYS:HG3	2.47	0.44
9:AJ:77:SER:HA	9:AJ:85:TYR:O	2.17	0.44
11:AL:10:ARG:NE	11:AL:75:ASP:OD2	2.51	0.44
11:AL:50:LEU:HD21	11:AL:56:LEU:HB2	1.99	0.44
12:AM:33:GLN:O	12:AM:34:VAL:CB	2.64	0.44
12:AM:5:ARG:CG	12:AM:5:ARG:HH11	2.30	0.44
12:AM:6:ILE:CD1	12:AM:73:ASP:H	2.30	0.44
1:AA:718:G:C4	13:AN:116:HIS:NE2	2.84	0.44
13:AN:66:LEU:HB3	13:AN:70:LYS:HZ2	1.81	0.44
13:AN:85:ARG:CG	13:AN:85:ARG:NH1	2.79	0.44
13:AN:87:THR:HA	13:AN:91:ARG:HH12	1.77	0.44
16:AQ:34:TYR:OH	16:AQ:41:ARG:CA	2.65	0.44
5:AF:29:TYR:CE2	16:AQ:54:PRO:HB2	2.51	0.44
17:AR:24:SER:O	17:AR:28:GLN:HG2	2.17	0.44
1:AA:729:A:H62	17:AR:51:HIS:CD2	2.36	0.44
17:AR:54:ARG:O	17:AR:55:GLY:C	2.56	0.44
17:AR:63:ARG:O	17:AR:64:ARG:C	2.56	0.44
20:AU:37:VAL:HG12	20:AU:41:LYS:HZ2	1.77	0.44
20:AU:52:PRO:CG	20:AU:54:ARG:HB3	2.45	0.44
21:AV:37:ARG:HH11	21:AV:70:LYS:HD3	1.82	0.44
23:AX:12:LYS:O	23:AX:13:ILE:C	2.56	0.44
24:BA:400:G:N2	50:B3:63:TYR:OH	2.50	0.44
52:B5:10:LEU:HD12	52:B5:28:ARG:HH21	1.82	0.44
54:B7:6:THR:HG23	54:B7:9:GLY:N	2.33	0.44
24:BA:1144:G:C5	24:BA:1145:C:N4	2.85	0.44
24:BA:1151:G:H2'	24:BA:1152:C:H6	1.76	0.44
24:BA:125:G:N2	53:B6:10:ARG:CA	2.68	0.44
24:BA:1294:U:C2'	24:BA:1295:C:H5'	2.48	0.44
24:BA:1316:U:H2'	24:BA:1317:A:C8	2.53	0.44
24:BA:1323:U:C2'	24:BA:1324:G:OP1	2.65	0.44
24:BA:1359:A:C8	24:BA:1359:A:C4'	3.00	0.44
24:BA:1471:A:N7	24:BA:1521:G:C2	2.86	0.44
24:BA:147:U:H2'	24:BA:148:C:C5	2.51	0.44
24:BA:1552:G:N3	24:BA:1552:G:H2'	2.32	0.44
24:BA:1660:C:C2'	24:BA:1661:G:O5'	2.65	0.44
24:BA:1697:G:H3'	24:BA:1697:G:C8	2.52	0.44
24:BA:1754:C:C4	24:BA:1755:A:C5	3.05	0.44
24:BA:1784:A:C1'	24:BA:1785:A:N7	2.80	0.44
24:BA:1855:G:C6	24:BA:1856:G:N7	2.85	0.44
24:BA:188:G:H5'	24:BA:1365:A:N3	2.32	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1974:C:C2	24:BA:1975:G:C8	3.06	0.44
24:BA:1977:A:H2	24:BA:1978:A:H1'	1.82	0.44
24:BA:20:C:H2'	24:BA:21:A:H8	1.82	0.44
24:BA:2199:A:C2	24:BA:2205:C:N1	2.86	0.44
24:BA:2259:G:H2'	24:BA:2260:C:H6	1.82	0.44
24:BA:2307:G:O2'	24:BA:2311:A:N7	2.50	0.44
24:BA:2397:G:O2'	24:BA:2398:U:H5'	2.18	0.44
24:BA:2407:G:N3	24:BA:2407:G:H2'	2.31	0.44
24:BA:239:U:C2'	24:BA:240:G:O4'	2.63	0.44
24:BA:2655:G:N3	24:BA:2664:G:O6	2.51	0.44
24:BA:270(C):C:O2'	24:BA:270(D):C:C5'	2.62	0.44
24:BA:1638:C:C5'	24:BA:2710:C:H1'	2.47	0.44
24:BA:2718:G:C2	24:BA:2719:G:C4	3.05	0.44
24:BA:2820:A:N7	28:BE:191:PRO:HB3	2.33	0.44
24:BA:2876:G:C2	24:BA:2877:G:C5	3.06	0.44
24:BA:28:A:C2	24:BA:29:U:C4'	3.01	0.44
24:BA:390:A:P	24:BA:390:A:H3'	2.57	0.44
24:BA:4:C:C2	24:BA:5:A:N7	2.85	0.44
24:BA:562:U:O2	24:BA:572:A:O4'	2.35	0.44
24:BA:60:G:HO2'	24:BA:61:G:P	2.39	0.44
24:BA:612:G:C4'	24:BA:616:A:N1	2.80	0.44
24:BA:625:G:N1	24:BA:626:U:H1'	2.32	0.44
24:BA:633:A:H3'	24:BA:634:C:O4'	2.18	0.44
24:BA:669:G:C4	24:BA:801:G:N1	2.86	0.44
24:BA:729:G:C5	24:BA:730:C:N1	2.85	0.44
24:BA:735:A:C8	24:BA:735:A:H3'	2.52	0.44
24:BA:763:G:C5	24:BA:765:G:C8	3.05	0.44
24:BA:813:U:C5	36:BO:25:SER:HB3	2.53	0.44
24:BA:84:A:H5'	24:BA:85:G:OP1	2.17	0.44
24:BA:874:G:C2	24:BA:875:G:C8	3.06	0.44
24:BA:902:C:N4	24:BA:903:C:N4	2.66	0.44
24:BA:915:C:C2'	24:BA:916:G:H8	2.28	0.44
24:BA:943:U:C2'	24:BA:944:G:OP1	2.65	0.44
25:BB:33:G:C2'	25:BB:34:U:H6	2.27	0.44
27:BD:199:ALA:O	27:BD:202:LYS:CB	2.60	0.44
27:BD:198:ASN:HD21	27:BD:201:HIS:HB2	1.83	0.44
24:BA:1816:G:OP1	27:BD:43:ARG:NH2	2.51	0.44
27:BD:49:ILE:HD12	27:BD:49:ILE:N	2.31	0.44
28:BE:91:VAL:HG23	28:BE:180:ASN:ND2	2.31	0.44
28:BE:51:PHE:CD1	28:BE:76:ARG:CG	2.98	0.44
28:BE:8:LYS:C	28:BE:8:LYS:CD	2.85	0.44
29:BF:109:GLY:O	29:BF:112:MET:N	2.50	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:11:VAL:CG2	29:BF:126:VAL:HG12	2.47	0.44
29:BF:137:LYS:HB3	29:BF:137:LYS:HZ2	1.82	0.44
24:BA:675:A:H5'	29:BF:67:GLN:NE2	2.32	0.44
30:BG:103:LEU:C	30:BG:103:LEU:HD12	2.38	0.44
30:BG:144:ILE:HG23	30:BG:145:THR:O	2.16	0.44
30:BG:55:LYS:HG3	30:BG:148:MET:CG	2.46	0.44
31:BH:140:LYS:O	31:BH:143:GLN:HB2	2.17	0.44
31:BH:19:VAL:HG12	31:BH:24:VAL:CG1	2.37	0.44
32:BK:32:PRO:CD	32:BK:33:ARG:HG2	2.42	0.44
32:BK:43:ASN:N	32:BK:43:ASN:ND2	2.61	0.44
33:BL:17:ALA:O	33:BL:18:THR:CG2	2.63	0.44
34:BM:34:LEU:CD2	34:BM:120:LEU:HD13	2.46	0.44
34:BM:95:PRO:HG2	34:BM:96:GLU:N	2.33	0.44
35:BN:120:GLU:O	35:BN:121:VAL:C	2.56	0.44
24:BA:811:U:O4	36:BO:23:PRO:CD	2.65	0.44
36:BO:99:LEU:HD22	36:BO:101:VAL:CG1	2.45	0.44
37:BP:64:ILE:CG2	37:BP:106:VAL:O	2.65	0.44
38:BQ:66:VAL:O	38:BQ:69:ASP:N	2.50	0.44
38:BQ:26:LYS:NZ	38:BQ:70:LEU:O	2.32	0.44
39:BR:40:ILE:HD12	39:BR:40:ILE:N	2.32	0.44
39:BR:58:LEU:O	39:BR:60:GLY:N	2.50	0.44
40:BS:28:VAL:HG22	40:BS:93:ARG:CA	2.46	0.44
41:BT:17:ILE:HD13	41:BT:20:LEU:HD11	1.99	0.44
24:BA:581:C:O3'	41:BT:32:PHE:CE2	2.70	0.44
41:BT:93:LYS:HA	41:BT:93:LYS:CE	2.43	0.44
41:BT:96:ALA:O	41:BT:97:ASP:C	2.54	0.44
42:BU:20:LEU:HD13	42:BU:95:LEU:CD1	2.47	0.44
43:BV:4:LYS:HG2	43:BV:4:LYS:H	1.39	0.44
43:BV:59:VAL:C	43:BV:63:ASP:HA	2.36	0.44
45:BX:86:ARG:CA	45:BX:91:GLU:HB3	2.47	0.44
45:BX:8:LYS:O	45:BX:9:LYS:C	2.55	0.44
46:BY:14:LYS:CD	46:BY:14:LYS:N	2.80	0.44
46:BY:14:LYS:O	46:BY:15:PRO:C	2.53	0.44
46:BY:31:ARG:HG2	46:BY:31:ARG:NH1	2.32	0.44
46:BY:6:LYS:CD	46:BY:35:ARG:HD3	2.44	0.44
32:BK:50:ARG:HA	32:BK:53:ALA:HB3	2.00	0.44
32:BK:76:THR:CA	32:BK:77:LEU:HD23	2.46	0.44
3:AD:18:G:H2'	3:AD:19:G:C5'	2.46	0.44
3:AD:48:C:C4	3:AD:59:U:C2	3.06	0.44
3:AD:7:A:H2'	3:AD:8:U:OP1	2.18	0.44
24:BA:2114:A:H2'	24:BA:2115:G:O4'	2.17	0.44
24:BA:2115:G:H2'	24:BA:2117:A:C5	2.46	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2121:G:O2'	26:BC:167:LYS:HG2	2.17	0.44
24:BA:2125:G:N2	24:BA:2172:U:C5'	2.80	0.44
26:BC:103:ILE:HD13	26:BC:127:LEU:HD11	1.99	0.44
26:BC:28:LEU:O	26:BC:32:LEU:CG	2.66	0.44
26:BC:46:LYS:HE2	26:BC:210:ARG:HE	1.82	0.44
26:BC:87:GLU:HA	26:BC:91:ALA:HB3	1.99	0.44
1:AA:131:C:C4	1:AA:232:G:N1	2.85	0.44
24:BA:1581:G:C2'	24:BA:1582:C:H5'	2.47	0.44
3:AD:43:C:H2'	3:AD:44:G:C8	2.52	0.44
39:BR:112:PHE:C	39:BR:112:PHE:CD1	2.91	0.44
1:AA:1142:G:H2'	1:AA:1143:G:C8	2.41	0.44
1:AA:1227:A:C8	1:AA:1228:C:C6	3.06	0.44
1:AA:1352:C:H1'	1:AA:1371:G:N2	2.32	0.44
1:AA:1362:C:O2'	1:AA:1362(A):C:C6	2.71	0.44
1:AA:1394:A:C3'	1:AA:1395:C:H5'	2.47	0.44
1:AA:1395:C:H2'	1:AA:1396:A:C8	2.50	0.44
1:AA:1451:A:H5''	1:AA:1452:C:C5	2.50	0.44
1:AA:104:G:H5'	1:AA:172:A:N1	2.32	0.44
1:AA:210:U:H5'	1:AA:216:G:OP1	2.17	0.44
1:AA:251:G:H4'	1:AA:252:U:OP1	2.17	0.44
1:AA:258:G:H2'	1:AA:259:G:C8	2.52	0.44
1:AA:370:C:C2'	1:AA:371:G:H5'	2.46	0.44
1:AA:397:A:H2'	1:AA:399:G:OP2	2.17	0.44
1:AA:399:G:C6	1:AA:400:C:C4	3.05	0.44
1:AA:411:A:C6	1:AA:429:U:C4	3.06	0.44
1:AA:414:A:C4	1:AA:415:A:C8	3.06	0.44
1:AA:548:G:H2'	1:AA:549:C:O5'	2.18	0.44
1:AA:689:C:H2'	1:AA:689:C:O2	2.16	0.44
1:AA:737:A:C2'	1:AA:738:C:O5'	2.66	0.44
1:AA:779:C:O2'	1:AA:780:A:H5'	2.18	0.44
1:AA:791:G:C5	1:AA:792:A:N7	2.85	0.44
1:AA:872:A:O2'	1:AA:873:A:C5'	2.58	0.44
1:AA:935:A:C6	1:AA:936:C:N4	2.85	0.44
1:AA:942:G:C2	1:AA:943:U:C6	3.05	0.44
1:AA:947:G:O3'	15:AP:109:THR:OG1	2.24	0.44
1:AA:962:C:C4	1:AA:963:G:N7	2.85	0.44
3:AD:4:C:H2'	3:AD:5:G:O4'	2.17	0.44
4:AE:61:LEU:CA	4:AE:64:ARG:HH11	2.31	0.44
5:AF:6:HIS:CD2	16:AQ:49:HIS:ND1	2.85	0.44
5:AF:83:ARG:C	5:AF:85:ARG:N	2.67	0.44
6:AG:107:ARG:HD2	6:AG:173:TRP:CZ2	2.52	0.44
6:AG:198:VAL:CG2	6:AG:199:ASN:H	2.14	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AH:91:LEU:CD1	7:AH:118:ILE:HG23	2.47	0.44
8:AI:14:LEU:O	8:AI:15:ASP:HB3	2.17	0.44
9:AJ:14:PRO:HG3	9:AJ:21:VAL:HG13	1.99	0.44
9:AJ:6:ARG:O	9:AJ:7:ALA:HB3	2.17	0.44
10:AK:9:MET:SD	10:AK:32:LYS:HB2	2.57	0.44
11:AL:101:PHE:C	11:AL:102:LEU:CD2	2.81	0.44
11:AL:27:THR:HA	11:AL:31:GLN:O	2.17	0.44
11:AL:47:LEU:CD1	11:AL:51:ARG:HH12	2.30	0.44
11:AL:96:LEU:O	11:AL:100:GLY:CA	2.62	0.44
12:AM:22:LYS:HZ2	12:AM:90:LEU:CD1	2.26	0.44
13:AN:42:TRP:CZ3	13:AN:47:VAL:HG21	2.52	0.44
14:AO:41:ARG:HG2	14:AO:42:THR:HG22	2.00	0.44
14:AO:60:LEU:CD2	14:AO:64:TYR:HB3	2.46	0.44
1:AA:880:C:P	14:AO:9:GLN:NE2	2.91	0.44
15:AP:98:VAL:HB	15:AP:110:ARG:HH21	1.82	0.44
1:AA:1329:A:C5'	15:AP:29:ARG:CZ	2.94	0.44
15:AP:39:ILE:HG21	15:AP:56:LEU:HD13	1.99	0.44
1:AA:750:G:C2'	17:AR:23:GLY:O	2.66	0.44
17:AR:33:THR:O	17:AR:34:LEU:C	2.56	0.44
18:AS:10:GLY:CA	18:AS:14:ASN:ND2	2.81	0.44
20:AU:74:ARG:O	20:AU:77:GLY:HA2	2.17	0.44
21:AV:21:GLU:O	21:AV:24:ALA:HB2	2.17	0.44
21:AV:38:SER:OG	21:AV:39:THR:N	2.50	0.44
22:AW:57:ARG:CZ	22:AW:100:ILE:HD12	2.47	0.44
24:BA:1809:A:H61	50:B3:3:GLU:HB2	1.83	0.44
50:B3:42:PHE:N	50:B3:58:ARG:HG3	2.31	0.44
51:B4:25:LEU:O	51:B4:25:LEU:CG	2.57	0.44
51:B4:35:GLU:HB3	51:B4:49:CYS:HB2	1.96	0.44
51:B4:46:CYS:O	51:B4:48:GLU:N	2.41	0.44
53:B6:43:THR:C	53:B6:46:VAL:HB	2.37	0.44
54:B7:26:LYS:HB2	54:B7:44:LYS:NZ	2.31	0.44
54:B7:34:TRP:HA	54:B7:36:LYS:HB2	2.00	0.44
36:BO:45:LEU:CD1	54:B7:3:LYS:NZ	2.80	0.44
24:BA:1065:U:H2'	24:BA:1066:U:H5''	1.99	0.44
24:BA:1076:C:O2	33:BL:91:PRO:HD2	2.17	0.44
24:BA:1106:G:N7	24:BA:1106:G:OP2	2.51	0.44
24:BA:1210:A:H4'	24:BA:1211:U:O5'	2.14	0.44
24:BA:1263:U:C5	24:BA:1264:G:N1	2.85	0.44
24:BA:1292:U:H2'	24:BA:1293:C:H6	1.82	0.44
24:BA:1356:G:C4	24:BA:1357:U:C6	3.06	0.44
24:BA:1360:A:H61	24:BA:1371:G:H1'	1.79	0.44
24:BA:1378:A:C2	24:BA:1380:G:C1'	3.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1342:A:C2	24:BA:1397:U:C6	3.06	0.44
24:BA:140:A:H2	24:BA:1408:C:C2	2.35	0.44
24:BA:1419:A:OP2	24:BA:1419:A:C4'	2.66	0.44
24:BA:1427:A:H1'	24:BA:1428:C:C4	2.52	0.44
24:BA:1429:G:C8	24:BA:1430:C:C5	3.05	0.44
24:BA:120:U:O2	24:BA:149:A:C2	2.70	0.44
24:BA:1534:G:O2'	24:BA:1536:A:N6	2.50	0.44
24:BA:1609:A:N6	24:BA:1616:A:H2	2.04	0.44
24:BA:1691:C:H2'	24:BA:1692:U:H5'	1.97	0.44
24:BA:1702:G:C2'	24:BA:1703:G:C5'	2.79	0.44
24:BA:1786:A:C2'	24:BA:1787:A:H5'	2.46	0.44
24:BA:1814:G:N2	24:BA:1815:A:N6	2.65	0.44
24:BA:1819:A:N3	24:BA:1821:A:N1	2.64	0.44
24:BA:1926:U:N3	24:BA:1929:G:C2	2.85	0.44
24:BA:1940:U:H5'	24:BA:1941:C:OP1	2.17	0.44
24:BA:1661:G:C4	24:BA:2000:G:C2	3.06	0.44
24:BA:2000:G:C6	24:BA:2001:A:N6	2.84	0.44
24:BA:2023:G:C4	24:BA:2024:G:N7	2.85	0.44
24:BA:2070:G:C2	24:BA:2071:A:C4	3.06	0.44
24:BA:2208:U:H4'	27:BD:151:LYS:HZ2	1.77	0.44
24:BA:2239:G:N3	24:BA:2239:G:H2'	2.32	0.44
24:BA:2276:G:N2	24:BA:2277:G:C4	2.85	0.44
24:BA:2302:G:C2	24:BA:2303:G:N9	2.85	0.44
24:BA:2335:A:N7	24:BA:2337:G:C6	2.85	0.44
24:BA:2348:U:C2'	24:BA:2349:G:O5'	2.65	0.44
24:BA:2369:A:N6	24:BA:2382:G:H22	2.16	0.44
24:BA:2373:G:C8	24:BA:2373:G:OP2	2.68	0.44
24:BA:2373:G:C2	24:BA:2374:C:N3	2.85	0.44
24:BA:2447:G:O2'	24:BA:2448:A:P	2.74	0.44
24:BA:2471:C:H2'	24:BA:2472:G:H5'	1.99	0.44
24:BA:2472:G:H1'	24:BA:2478:A:N6	2.32	0.44
24:BA:246:C:H2'	24:BA:247:G:C8	2.52	0.44
24:BA:2484:G:C4	37:BP:124:LYS:HE2	2.52	0.44
24:BA:252:G:H2'	24:BA:253:C:H6	1.81	0.44
24:BA:2554:U:H5	24:BA:2556:C:C4	2.36	0.44
3:AB:76:A:P	24:BA:2573:C:N3	2.90	0.44
24:BA:2599:G:C2'	24:BA:2600:A:H5'	2.46	0.44
24:BA:2623:G:H22	51:B4:22:HIS:CE1	2.22	0.44
24:BA:2675:A:OP1	35:BN:32:TYR:HE2	2.00	0.44
24:BA:270(E):G:C2	24:BA:270(V):G:N2	2.85	0.44
24:BA:288:C:H6	24:BA:288:C:O5'	2.01	0.44
24:BA:298:G:H1	24:BA:338:G:H4'	1.82	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:30:G:H2'	24:BA:31:C:H6	1.82	0.44
24:BA:310:A:C8	24:BA:312:G:C6	3.05	0.44
24:BA:322:A:OP1	29:BF:168:ARG:HG2	2.18	0.44
24:BA:270(C):C:P	24:BA:365:C:O2'	2.75	0.44
24:BA:495:G:C2'	24:BA:496:G:O5'	2.66	0.44
24:BA:528:A:H2'	24:BA:529:A:OP1	2.17	0.44
24:BA:545:G:C1'	24:BA:549:G:N2	2.66	0.44
24:BA:557:U:O5'	24:BA:557:U:H6	2.00	0.44
24:BA:590:A:C6	24:BA:591:C:C4	3.05	0.44
24:BA:64:A:C2	24:BA:65:C:C1'	3.00	0.44
24:BA:709:U:H6	24:BA:709:U:O5'	2.01	0.44
24:BA:734:A:C2	24:BA:735:A:C1'	3.01	0.44
24:BA:783:A:C6	24:BA:785:G:O4'	2.71	0.44
24:BA:820:A:OP2	24:BA:973:A:N6	2.50	0.44
24:BA:833:U:H2'	24:BA:834:C:O5'	2.18	0.44
24:BA:87:C:H1'	48:B1:46:ARG:HH22	1.81	0.44
24:BA:889:C:H1'	24:BA:892:G:C8	2.52	0.44
24:BA:931:G:N3	49:B2:24:LYS:CE	2.80	0.44
25:BB:111:U:O2	25:BB:112:G:C8	2.71	0.44
25:BB:6:C:C4	25:BB:115:G:N2	2.86	0.44
27:BD:55:GLY:H	27:BD:218:ARG:HA	1.83	0.44
27:BD:42:GLY:HA3	27:BD:60:ARG:HH22	1.79	0.44
28:BE:142:GLY:O	28:BE:143:ASN:CG	2.55	0.44
28:BE:176:ILE:HA	28:BE:177:PRO:HD2	1.76	0.44
28:BE:97:LYS:HG3	28:BE:100:GLU:HG3	1.99	0.44
29:BF:101:LEU:C	29:BF:101:LEU:HD13	2.38	0.44
29:BF:169:ASN:OD1	29:BF:171:PRO:HG2	2.18	0.44
29:BF:194:MET:HE2	29:BF:195:ASP:N	2.33	0.44
29:BF:65:TRP:O	29:BF:67:GLN:N	2.51	0.44
29:BF:75:HIS:CE1	29:BF:80:ALA:CB	3.01	0.44
29:BF:80:ALA:O	29:BF:81:PRO:C	2.55	0.44
29:BF:95:ARG:HE	29:BF:96:ASP:H	1.66	0.44
30:BG:27:ASN:HB3	30:BG:29:TRP:CZ2	2.52	0.44
30:BG:2:PRO:HA	30:BG:5:VAL:HG21	2.00	0.44
30:BG:71:THR:CG2	30:BG:71:THR:O	2.58	0.44
30:BG:37:VAL:CB	30:BG:99:MET:SD	3.03	0.44
30:BG:9:ARG:HD2	30:BG:10:LYS:HZ3	1.78	0.44
31:BH:74:ASN:O	31:BH:76:VAL:N	2.50	0.44
31:BH:28:GLY:HA3	31:BH:79:VAL:C	2.38	0.44
32:BK:5:LEU:N	32:BK:5:LEU:CD2	2.77	0.44
33:BL:104:VAL:HG12	33:BL:124:ALA:CA	2.48	0.44
34:BM:102:ALA:O	34:BM:105:GLY:N	2.50	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:BM:82:LEU:HD23	34:BM:82:LEU:N	2.32	0.44
36:BO:113:LYS:CG	36:BO:114:ILE:N	2.80	0.44
37:BP:16:ARG:HD3	37:BP:16:ARG:N	2.28	0.44
38:BQ:17:ARG:HG3	38:BQ:18:LEU:CD2	2.47	0.44
38:BQ:71:GLN:O	38:BQ:72:ASP:CB	2.65	0.44
38:BQ:97:VAL:C	38:BQ:98:LEU:CG	2.85	0.44
40:BS:25:GLY:O	40:BS:100:TYR:OH	2.36	0.44
40:BS:103:ARG:C	40:BS:107:ASP:OD2	2.56	0.44
40:BS:108:ARG:H	40:BS:108:ARG:NH1	2.11	0.44
40:BS:28:VAL:HG13	40:BS:92:GLY:O	2.17	0.44
40:BS:2:ASN:C	40:BS:6:LEU:HD22	2.37	0.44
40:BS:71:GLY:N	40:BS:74:ARG:HH11	2.16	0.44
42:BU:3:ALA:C	42:BU:12:TYR:CE2	2.90	0.44
43:BV:12:ILE:H	43:BV:12:ILE:HD13	1.82	0.44
43:BV:24:ILE:O	43:BV:32:ALA:HB2	2.17	0.44
44:BW:21:PHE:HE2	44:BW:27:THR:HG1	1.60	0.44
45:BX:49:VAL:CB	45:BX:51:VAL:H	2.29	0.44
47:BZ:23:VAL:CG2	47:BZ:44:ARG:HH12	2.30	0.44
32:BK:115:ALA:HB1	32:BK:128:LEU:CD2	2.43	0.44
32:BK:87:LYS:HG2	32:BK:121:LYS:O	2.17	0.44
24:BA:2124:G:N3	26:BC:217:THR:HG23	2.31	0.44
24:BA:2168:G:N2	24:BA:2170:A:H2'	2.32	0.44
26:BC:117:PRO:HD2	26:BC:147:PHE:CG	2.52	0.44
26:BC:11:LEU:HD12	26:BC:14:VAL:HB	1.98	0.44
26:BC:160:ARG:HD3	26:BC:160:ARG:C	2.38	0.44
15:AP:54:VAL:O	15:AP:58:GLU:HG3	2.16	0.44
48:B1:11:LEU:N	48:B1:11:LEU:CD1	2.81	0.44
24:BA:1579:A:H61	24:BA:1581:G:N2	2.01	0.44
24:BA:487:C:N4	24:BA:488:G:C5	2.86	0.44
24:BA:1414:G:N1	24:BA:1415:U:C4	2.86	0.44
1:AA:1074:G:C2'	1:AA:1075:C:H5'	2.47	0.44
1:AA:1133:G:C8	1:AA:1133:G:H3'	2.52	0.44
1:AA:1151:A:N7	1:AA:1152:A:C8	2.86	0.44
1:AA:1187:G:C2'	1:AA:1188:A:H8	2.31	0.44
1:AA:1242:C:N3	1:AA:1243:C:C5	2.85	0.44
1:AA:1315:U:H1'	1:AA:1360:A:N3	2.33	0.44
1:AA:1319:A:H5'	21:AV:5:LEU:HD21	1.99	0.44
1:AA:1343:G:C2	1:AA:1344:C:C2	3.06	0.44
1:AA:1480:G:C6	1:AA:1481:U:C2	3.05	0.44
1:AA:148:G:O2'	1:AA:149:A:H5'	2.17	0.44
1:AA:1519:A:C3'	1:AA:1520:G:H5'	2.47	0.44
1:AA:179:A:H2'	1:AA:179:A:N3	2.32	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:189:U:H2'	19:AT:63:ARG:HH22	1.82	0.44
1:AA:194:C:O3'	22:AW:68:LYS:NZ	2.50	0.44
1:AA:254:G:C1'	19:AT:15:MET:HG2	2.48	0.44
1:AA:279:A:OP2	19:AT:95:TYR:OH	2.32	0.44
1:AA:285:G:C6	1:AA:286:G:C5	3.06	0.44
1:AA:285:G:C6	1:AA:286:G:N7	2.86	0.44
1:AA:414:A:C6	1:AA:431:A:C2	3.06	0.44
1:AA:428:G:O2'	1:AA:429:U:OP2	2.30	0.44
1:AA:520:A:H8	1:AA:520:A:H3'	1.82	0.44
1:AA:518:C:C6	1:AA:530:G:C4	3.05	0.44
1:AA:540:G:C5	1:AA:541:G:N7	2.86	0.44
1:AA:567:G:N2	1:AA:568:G:H1'	2.33	0.44
1:AA:568:G:C2	1:AA:574:A:H2	2.35	0.44
1:AA:582:U:OP2	1:AA:758:G:N2	2.51	0.44
1:AA:622:A:C4	1:AA:623:C:C6	3.04	0.44
1:AA:664:G:N3	1:AA:726:C:H4'	2.32	0.44
1:AA:779:C:N3	1:AA:780:A:N3	2.64	0.44
1:AA:857:C:H2'	1:AA:858:G:C5'	2.46	0.44
1:AA:975:A:O2'	1:AA:976:G:P	2.76	0.44
3:AC:38:A:N7	3:AC:39:U:C5	2.86	0.44
4:AE:153:ARG:O	4:AE:153:ARG:CZ	2.65	0.44
4:AE:167:PRO:O	4:AE:174:VAL:HG21	2.17	0.44
4:AE:25:ASN:O	4:AE:26:PRO:C	2.56	0.44
5:AF:38:ARG:CB	5:AF:38:ARG:NH1	2.58	0.44
6:AG:129:ASN:HD21	6:AG:145:GLU:HG2	1.82	0.44
6:AG:155:LEU:O	6:AG:158:ILE:N	2.51	0.44
6:AG:176:LEU:HD23	6:AG:176:LEU:H	1.81	0.44
6:AG:30:LYS:HG2	6:AG:35:ARG:HG3	2.00	0.44
6:AG:67:ILE:CD1	6:AG:68:TYR:CD1	3.00	0.44
6:AG:65:ARG:HG3	6:AG:72:GLU:CD	2.38	0.44
6:AG:83:SER:N	6:AG:89:THR:CG2	2.80	0.44
7:AH:112:LEU:HA	7:AH:112:LEU:HD22	1.79	0.44
7:AH:52:PRO:O	7:AH:55:VAL:N	2.50	0.44
7:AH:7:GLU:OE1	7:AH:37:ARG:NH2	2.50	0.44
7:AH:84:PHE:CG	7:AH:134:ALA:CA	3.00	0.44
10:AK:101:PRO:HG2	10:AK:102:ARG:N	2.32	0.44
10:AK:84:ARG:C	10:AK:135:CYS:HG	2.19	0.44
12:AM:40:LEU:HD23	12:AM:40:LEU:HA	1.87	0.44
12:AM:40:LEU:O	12:AM:42:THR:N	2.51	0.44
14:AO:113:ARG:NH2	14:AO:116:SER:O	2.42	0.44
1:AA:37:U:OP1	14:AO:123:LYS:HE3	2.18	0.44
14:AO:82:VAL:O	14:AO:83:VAL:CB	2.65	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AS:42:ARG:C	18:AS:43:LYS:HD2	2.38	0.44
18:AS:8:ARG:NH1	18:AS:11:SER:O	2.51	0.44
1:AA:280:C:O2	19:AT:39:SER:HB3	2.18	0.44
21:AV:18:LYS:HE2	21:AV:22:LEU:HD12	1.99	0.44
21:AV:32:LYS:HB3	21:AV:50:ALA:HB3	1.99	0.44
22:AW:10:LEU:HD12	22:AW:11:SER:N	2.32	0.44
50:B3:41:PRO:CA	50:B3:58:ARG:HD2	2.47	0.44
50:B3:7:PRO:HG2	50:B3:60:GLN:HB2	1.98	0.44
52:B5:17:LYS:CE	52:B5:48:VAL:HG11	2.47	0.44
53:B6:32:LYS:O	53:B6:33:ARG:C	2.55	0.44
54:B7:5:LYS:HG2	54:B7:7:HIS:CA	2.48	0.44
24:BA:1027:A:N1	24:BA:1126:A:C4	2.85	0.44
24:BA:117:G:C2	24:BA:119:A:N6	2.85	0.44
24:BA:1213:A:C4	24:BA:1214:A:C8	3.06	0.44
24:BA:1264:G:N7	24:BA:1265:A:C5	2.85	0.44
24:BA:1287:A:H8	38:BQ:104:ARG:HH11	1.65	0.44
24:BA:1299:G:OP1	24:BA:1300:U:H5'	2.18	0.44
24:BA:1303:G:H22	24:BA:1626:G:HO2'	1.60	0.44
24:BA:1304:C:H2'	24:BA:1305:C:C5'	2.47	0.44
24:BA:1458:C:H4'	24:BA:1459:G:C4	2.52	0.44
24:BA:1475:G:H22	24:BA:1477:A:N6	2.08	0.44
24:BA:1593:G:H2'	24:BA:1594:G:O4'	2.18	0.44
24:BA:1604:C:C2'	24:BA:1604:C:O2	2.66	0.44
24:BA:1672:C:C3'	24:BA:1673:U:C5'	2.92	0.44
24:BA:1709:U:C4	24:BA:1710:C:N4	2.86	0.44
24:BA:1790:C:H1'	27:BD:213:ARG:NH2	2.33	0.44
24:BA:1795:C:H6	24:BA:1795:C:O5'	2.01	0.44
24:BA:1807:G:N2	24:BA:1809:A:OP2	2.50	0.44
24:BA:1977:A:C2	24:BA:1978:A:C1'	3.01	0.44
24:BA:1982:C:N4	24:BA:1983:C:H41	2.15	0.44
24:BA:2046:G:C6	24:BA:2623:G:C6	3.06	0.44
24:BA:2084:C:C2	24:BA:2085:C:C5	3.05	0.44
24:BA:2091:U:O4	24:BA:2092:U:C5	2.70	0.44
24:BA:2091:U:C5'	24:BA:2093:G:OP1	2.65	0.44
24:BA:2227:A:C4'	27:BD:262:ARG:HD2	2.48	0.44
24:BA:2286:A:N7	52:B5:31:PRO:N	2.66	0.44
24:BA:2331:G:H3'	24:BA:2332:U:C6	2.51	0.44
24:BA:2352:A:N1	47:BZ:34:GLY:CA	2.80	0.44
24:BA:2424:C:C2'	24:BA:2424:C:O2	2.65	0.44
24:BA:2450:A:H2	24:BA:2451:A:H1'	1.82	0.44
24:BA:2514:U:H6	24:BA:2514:U:O5'	1.99	0.44
24:BA:2547:U:C6	24:BA:2547:U:H5''	2.52	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2676:C:H2'	24:BA:2677:G:H8	1.83	0.44
24:BA:266:G:C5	24:BA:267:C:C6	3.06	0.44
24:BA:2720:U:O2	24:BA:2720:U:C2'	2.53	0.44
24:BA:2726:U:H4'	24:BA:2727:G:OP1	2.16	0.44
24:BA:2770:G:C8	24:BA:2770:G:O5'	2.67	0.44
24:BA:2816:C:C2	24:BA:2831:G:C2	3.06	0.44
24:BA:344:G:C2	24:BA:345:A:C6	3.06	0.44
24:BA:424:G:N3	24:BA:425:G:C8	2.85	0.44
24:BA:568:U:C2'	24:BA:570:G:N7	2.80	0.44
24:BA:629:G:OP1	54:B7:17:THR:HG22	2.17	0.44
24:BA:67:U:C5'	24:BA:67:U:H6	2.30	0.44
24:BA:689:A:H2'	24:BA:690:G:H5''	1.99	0.44
24:BA:72:U:O4	24:BA:112:U:C1'	2.59	0.44
24:BA:830:G:O6	24:BA:2446:G:H1'	2.17	0.44
24:BA:861:A:H2'	24:BA:862:G:C5'	2.41	0.44
24:BA:943:U:H2'	24:BA:944:G:OP1	2.18	0.44
24:BA:971:C:N4	24:BA:972:G:N2	2.66	0.44
24:BA:973:A:C8	24:BA:973:A:H3'	2.53	0.44
27:BD:132:PRO:HB2	27:BD:134:ARG:HD2	1.99	0.44
27:BD:182:LEU:H	27:BD:270:ILE:HG13	1.83	0.44
27:BD:23:GLU:C	27:BD:23:GLU:OE1	2.55	0.44
27:BD:246:PRO:HB2	27:BD:250:TRP:CD1	2.52	0.44
27:BD:55:GLY:N	27:BD:218:ARG:HH11	2.16	0.44
27:BD:58:HIS:O	27:BD:59:LYS:HE2	2.16	0.44
24:BA:1568:G:P	27:BD:61:LEU:CG	3.06	0.44
28:BE:99:GLY:N	28:BE:172:VAL:CG2	2.80	0.44
24:BA:2833:G:N2	28:BE:56:PRO:HB3	2.33	0.44
29:BF:119:ARG:C	29:BF:119:ARG:HH21	2.21	0.44
30:BG:2:PRO:C	30:BG:5:VAL:HB	2.34	0.44
30:BG:68:PRO:CG	30:BG:72:ARG:NH1	2.77	0.44
31:BH:42:ARG:HB2	31:BH:53:GLU:HG3	1.98	0.44
31:BH:54:ARG:NH1	31:BH:57:ASP:CB	2.81	0.44
33:BL:102:GLU:O	33:BL:106:GLU:CG	2.62	0.44
33:BL:11:GLN:NE2	33:BL:73:PRO:CG	2.76	0.44
33:BL:105:LEU:CD2	33:BL:124:ALA:CB	2.93	0.44
33:BL:18:THR:N	33:BL:38:VAL:HG22	2.32	0.44
35:BN:22:ILE:HB	35:BN:23:ARG:CD	2.48	0.44
35:BN:63:VAL:CG2	35:BN:82:ASN:N	2.79	0.44
35:BN:77:ILE:O	40:BS:75:ILE:CD1	2.66	0.44
35:BN:8:LEU:HD21	35:BN:81:ASP:HB3	2.00	0.44
35:BN:89:ASN:O	35:BN:90:GLN:CB	2.64	0.44
36:BO:28:GLY:O	36:BO:29:LYS:CG	2.62	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BO:40:SER:O	36:BO:42:SER:N	2.50	0.44
36:BO:91:PHE:HE2	36:BO:96:THR:HG22	1.80	0.44
37:BP:134:ARG:C	37:BP:134:ARG:NH1	2.67	0.44
37:BP:51:ARG:HH22	37:BP:63:LYS:HZ1	1.66	0.44
37:BP:68:ILE:HG21	37:BP:95:ALA:HB2	2.00	0.44
24:BA:2882:A:C4'	38:BQ:98:LEU:HD21	2.48	0.44
39:BR:57:LYS:CD	39:BR:65:VAL:HA	2.46	0.44
39:BR:75:GLU:O	39:BR:78:LEU:CD1	2.65	0.44
40:BS:102:ILE:O	40:BS:103:ARG:C	2.56	0.44
41:BT:68:ALA:HA	41:BT:71:GLN:OE1	2.17	0.44
41:BT:93:LYS:HZ3	41:BT:93:LYS:CA	2.28	0.44
42:BU:16:PRO:CD	42:BU:100:ARG:NH1	2.78	0.44
42:BU:33:VAL:HG12	42:BU:34:GLU:H	1.82	0.44
43:BV:47:VAL:O	43:BV:51:LEU:CD1	2.57	0.44
24:BA:1615:C:O2	43:BV:87:PRO:HG3	2.17	0.44
45:BX:76:CYS:N	45:BX:100:ALA:HB3	2.33	0.44
45:BX:24:VAL:HG23	45:BX:38:ILE:HD12	2.00	0.44
45:BX:72:VAL:O	45:BX:77:PRO:O	2.36	0.44
47:BZ:52:GLY:O	47:BZ:60:PHE:CD2	2.71	0.44
47:BZ:74:ARG:HH11	47:BZ:75:LEU:HD11	1.82	0.44
26:BC:59:ARG:O	26:BC:199:HIS:CD2	2.71	0.44
26:BC:10:LEU:CD1	26:BC:32:LEU:O	2.64	0.44
26:BC:74:VAL:HG13	26:BC:112:ALA:O	2.17	0.44
24:BA:276:A:OP2	24:BA:276:A:O4'	2.35	0.44
1:AA:1003:G:OP2	1:AA:1003:G:C8	2.70	0.44
1:AA:1085:U:O4'	1:AA:1094:G:C2	2.70	0.44
1:AA:1068:G:C8	1:AA:1094:G:C8	3.04	0.44
1:AA:1065:U:H5	1:AA:1190:G:N3	2.14	0.44
1:AA:1241:G:C8	1:AA:1241:G:OP2	2.69	0.44
1:AA:1250:A:H2'	1:AA:1251:A:C8	2.53	0.44
1:AA:1347:G:O2'	1:AA:1348:U:P	2.75	0.44
1:AA:1368:G:O2'	1:AA:1369:C:H5'	2.17	0.44
1:AA:1396:A:H2'	1:AA:1397:C:OP2	2.17	0.44
1:AA:1424:C:C2'	1:AA:1425:U:O5'	2.66	0.44
1:AA:1454:G:C4	1:AA:1455:G:C8	3.05	0.44
1:AA:1480:G:O2'	1:AA:1481:U:C5'	2.61	0.44
1:AA:1504:G:O4'	1:AA:1505:G:C6	2.70	0.44
1:AA:1520:G:C2'	1:AA:1521:G:C8	2.95	0.44
1:AA:151:A:C6	1:AA:152:A:C2	3.05	0.44
1:AA:169:C:C6	1:AA:170:U:H5	2.35	0.44
1:AA:185:A:C4	1:AA:186:C:C5	3.06	0.44
1:AA:22:G:OP1	1:AA:561:U:O2	2.35	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:24:U:C4	1:AA:25:C:C5	3.05	0.44
1:AA:270:A:C5	1:AA:271:C:C5	3.06	0.44
1:AA:292:G:C2	1:AA:309:G:N3	2.86	0.44
1:AA:311:C:O2'	1:AA:312:C:H5'	2.17	0.44
1:AA:314:C:H2'	1:AA:315:A:C8	2.53	0.44
1:AA:409:G:N2	1:AA:410:G:O4'	2.50	0.44
1:AA:568:G:N3	1:AA:574:A:H2	2.16	0.44
1:AA:625:G:C4	1:AA:626:U:C5	3.06	0.44
1:AA:723:U:C6	1:AA:723:U:O5'	2.71	0.44
1:AA:960:U:C6	1:AA:960:U:H5'	2.53	0.44
3:AD:4:C:C4	3:AD:70:G:N1	2.85	0.44
4:AE:101:MET:HB3	4:AE:105:PHE:CD1	2.53	0.44
4:AE:145:LEU:O	4:AE:149:LEU:HB3	2.14	0.44
4:AE:157:ARG:HG2	4:AE:158:LEU:HD23	1.98	0.44
5:AF:164:ARG:HG2	5:AF:165:THR:N	2.32	0.44
5:AF:190:ARG:O	5:AF:191:THR:O	2.36	0.44
6:AG:92:VAL:O	6:AG:96:LEU:HG	2.17	0.44
7:AH:108:ALA:HA	7:AH:111:GLU:CD	2.38	0.44
9:AJ:11:GLN:NE2	9:AJ:12:LEU:HD12	2.33	0.44
9:AJ:129:GLU:HB3	9:AJ:131:LYS:HG2	1.99	0.44
9:AJ:6:ARG:H	9:AJ:6:ARG:CZ	2.29	0.44
10:AK:48:TYR:CA	10:AK:61:VAL:HG22	2.47	0.44
10:AK:97:VAL:HG22	10:AK:98:LYS:HZ2	1.83	0.44
11:AL:105:ASP:OD1	11:AL:107:ARG:NH2	2.50	0.44
11:AL:36:TYR:HD2	11:AL:37:PHE:HE2	1.66	0.44
13:AN:48:ILE:HD11	13:AN:64:ALA:HA	1.98	0.44
13:AN:66:LEU:CB	13:AN:70:LYS:NZ	2.79	0.44
14:AO:102:ARG:HH11	14:AO:110:VAL:CG1	2.31	0.44
14:AO:36:VAL:O	14:AO:59:ARG:O	2.36	0.44
15:AP:55:ARG:HH21	15:AP:56:LEU:CD1	2.30	0.44
15:AP:91:ARG:HB3	15:AP:98:VAL:HG13	1.98	0.44
16:AQ:13:THR:O	16:AQ:13:THR:HG22	2.17	0.44
16:AQ:26:ARG:HE	16:AQ:43:CYS:HA	1.82	0.44
17:AR:39:LEU:HD22	17:AR:56:LEU:CD2	2.42	0.44
1:AA:377:G:OP1	18:AS:5:ARG:NH1	2.51	0.44
19:AT:22:LEU:CD1	19:AT:41:LYS:HA	2.48	0.44
19:AT:5:VAL:CB	19:AT:59:ILE:O	2.66	0.44
8:AI:96:PRO:N	20:AU:32:ARG:HG3	2.32	0.44
20:AU:62:GLU:HB3	20:AU:66:LEU:HD23	2.00	0.44
21:AV:30:LEU:C	21:AV:30:LEU:HD23	2.38	0.44
21:AV:30:LEU:HA	21:AV:48:THR:C	2.38	0.44
48:B1:19:LEU:C	48:B1:19:LEU:HD22	2.37	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:B2:55:ARG:CG	49:B2:55:ARG:NH2	2.81	0.44
50:B3:57:GLU:N	50:B3:61:ARG:CG	2.81	0.44
50:B3:66:SER:O	50:B3:69:LYS:CB	2.56	0.44
24:BA:126:A:OP1	53:B6:17:GLY:HA3	2.17	0.44
24:BA:458:G:H2'	53:B6:40:TRP:CD1	2.53	0.44
54:B7:16:ILE:HA	54:B7:21:LYS:O	2.18	0.44
54:B7:16:ILE:HG23	54:B7:22:VAL:HG22	1.96	0.44
55:B8:1:MET:H2	55:B8:33:LYS:CB	2.31	0.44
24:BA:1003:G:O2'	24:BA:1010:A:N1	2.43	0.44
24:BA:1023:U:O2	24:BA:1024:G:H4'	2.17	0.44
24:BA:105:C:H2'	24:BA:106:C:H6	1.83	0.44
24:BA:1128:A:OP2	24:BA:1128:A:O4'	2.35	0.44
24:BA:1183:G:O2'	24:BA:1184:G:P	2.76	0.44
24:BA:1190:G:O2'	24:BA:1191:G:H5'	2.17	0.44
24:BA:1212:G:C8	24:BA:1212:G:C3'	2.99	0.44
24:BA:1372:U:C4	24:BA:1373:A:N7	2.85	0.44
24:BA:1388:G:N1	24:BA:1400:G:C2	2.85	0.44
24:BA:1454:U:C5'	24:BA:1455:G:OP2	2.56	0.44
24:BA:1522:G:C3'	24:BA:1522:G:C8	3.01	0.44
24:BA:1630:G:C8	24:BA:1630(A):C:H5	2.35	0.44
24:BA:1691:C:H2'	24:BA:1692:U:C5'	2.48	0.44
24:BA:1707:G:H2'	24:BA:1708:C:O4'	2.17	0.44
24:BA:1778:U:H3'	24:BA:1779:U:C5	2.52	0.44
24:BA:1933:G:O6	24:BA:1968:G:C2	2.68	0.44
24:BA:1995:U:C6	24:BA:1995:U:C3'	3.01	0.44
24:BA:1268:A:OP1	24:BA:2006:C:OP1	2.36	0.44
24:BA:2007:C:H2'	24:BA:2008:C:O5'	2.18	0.44
24:BA:2040:C:N4	24:BA:2041:U:O4	2.50	0.44
24:BA:2046:G:C2	24:BA:2047:U:C4	3.06	0.44
24:BA:219:G:H2'	24:BA:220:G:H5'	1.99	0.44
24:BA:2268:A:C3'	24:BA:2269:A:H5''	2.48	0.44
24:BA:2296:U:C4	39:BR:5:THR:HG23	2.53	0.44
24:BA:2298:A:H2'	24:BA:2299:G:H8	1.82	0.44
24:BA:233:A:N7	24:BA:234:C:C5	2.86	0.44
24:BA:2373:G:C4	24:BA:2374:C:C4	3.06	0.44
24:BA:2373:G:H2'	24:BA:2374:C:H5	1.82	0.44
24:BA:1864:U:OP1	24:BA:2410:G:O2'	2.36	0.44
24:BA:2472:G:H22	24:BA:2477:C:P	2.38	0.44
24:BA:2496:C:C6	24:BA:2497:A:C2	3.05	0.44
24:BA:2532:G:C5	24:BA:2533:A:C5	3.06	0.44
24:BA:2533:A:C2'	24:BA:2534:A:H8	2.28	0.44
24:BA:2547:U:H6	24:BA:2547:U:H5''	1.81	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AB:75:C:N4	24:BA:2554:U:O2	2.50	0.44
24:BA:2546:U:O4'	24:BA:2565:A:C2	2.68	0.44
24:BA:2573:C:OP1	24:BA:2574:G:OP1	2.35	0.44
3:AC:74:C:H5''	24:BA:2602:A:H2'	2.00	0.44
24:BA:747:U:O2	24:BA:2613:U:C4	2.71	0.44
24:BA:10:G:N1	24:BA:2629:A:N3	2.66	0.44
24:BA:266:G:C2	24:BA:267:C:H1'	2.52	0.44
24:BA:2681:C:H5	24:BA:2727:G:N2	2.15	0.44
24:BA:2706:G:N1	24:BA:2707:G:C5	2.86	0.44
24:BA:270(M):U:O3'	24:BA:270(N):G:C4'	2.66	0.44
24:BA:270(V):G:C4	24:BA:270(W):G:N7	2.85	0.44
24:BA:2737:G:C6	24:BA:2738:A:N7	2.86	0.44
24:BA:2749:A:N7	24:BA:2750:A:N7	2.66	0.44
24:BA:2776:A:C5	24:BA:2781:A:N7	2.85	0.44
24:BA:2776:A:N7	24:BA:2781:A:N7	2.65	0.44
24:BA:2827:C:H2'	24:BA:2828:C:H5'	2.00	0.44
24:BA:2879:C:C5'	24:BA:2880:C:OP1	2.64	0.44
24:BA:449:A:OP2	29:BF:85:GLY:CA	2.66	0.44
24:BA:566:U:O2'	24:BA:808:G:OP1	2.35	0.44
24:BA:70:G:C3'	24:BA:71:A:H5'	2.48	0.44
24:BA:71:A:C2'	24:BA:72:U:OP2	2.65	0.44
24:BA:771:G:C2	24:BA:772:C:C5	3.05	0.44
24:BA:687:C:C1'	24:BA:788:A:O4'	2.66	0.44
24:BA:824:A:C5	24:BA:825:C:N4	2.86	0.44
24:BA:885:C:N4	24:BA:892:G:C5	2.86	0.44
25:BB:71:C:O2	25:BB:71:C:C2'	2.63	0.44
25:BB:87:G:N1	25:BB:90:C:N4	2.66	0.44
24:BA:2208:U:C4'	27:BD:151:LYS:NZ	2.76	0.44
27:BD:161:THR:N	27:BD:196:VAL:HG21	2.32	0.44
24:BA:2596:U:C3'	27:BD:242:ARG:CZ	2.96	0.44
27:BD:85:ASP:C	27:BD:87:ASN:N	2.66	0.44
28:BE:116:VAL:O	28:BE:120:TRP:HD1	1.95	0.44
28:BE:13:ARG:CZ	28:BE:20:ALA:C	2.86	0.44
29:BF:96:ASP:OD1	29:BF:97:TYR:N	2.51	0.44
30:BG:104:GLU:CG	30:BG:105:LYS:N	2.68	0.44
30:BG:138:GLN:HG2	30:BG:139:LEU:N	2.33	0.44
31:BH:135:GLY:HA3	31:BH:141:VAL:CG2	2.47	0.44
31:BH:149:ARG:NH2	31:BH:164:TYR:CD1	2.85	0.44
31:BH:42:ARG:HB2	31:BH:53:GLU:CG	2.47	0.44
34:BM:21:LYS:HB3	34:BM:25:ARG:NH2	2.33	0.44
35:BN:25:LEU:HB2	35:BN:39:ILE:HA	2.00	0.44
36:BO:122:PRO:CG	36:BO:138:LEU:HA	2.48	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:134:ARG:HH21	37:BP:137:TYR:N	2.14	0.44
37:BP:42:ILE:O	37:BP:47:ILE:HD11	2.18	0.44
38:BQ:6:SER:CB	38:BQ:9:LYS:HE2	2.46	0.44
39:BR:10:ARG:O	39:BR:14:VAL:HG23	2.17	0.44
39:BR:6:ALA:O	39:BR:7:TYR:C	2.55	0.44
40:BS:91:ARG:C	40:BS:93:ARG:HH21	2.12	0.44
41:BT:106:PHE:O	41:BT:110:VAL:HG23	2.17	0.44
41:BT:110:VAL:HG12	41:BT:114:LYS:HZ1	1.83	0.44
41:BT:59:ARG:C	41:BT:62:ILE:HB	2.36	0.44
42:BU:6:LYS:HG2	42:BU:12:TYR:CA	2.47	0.44
42:BU:62:LEU:HB3	42:BU:97:LYS:O	2.17	0.44
43:BV:33:ARG:HH11	43:BV:36:LEU:CB	2.26	0.44
43:BV:70:TYR:CD1	43:BV:71:VAL:O	2.71	0.44
44:BW:12:VAL:HA	44:BW:29:TRP:NE1	2.33	0.44
45:BX:14:LEU:N	45:BX:14:LEU:CD1	2.80	0.44
45:BX:2:ARG:C	45:BX:4:LYS:N	2.69	0.44
45:BX:46:LYS:HZ3	45:BX:47:LYS:HG3	1.83	0.44
46:BY:169:GLU:O	46:BY:170:THR:CB	2.66	0.44
46:BY:11:GLU:N	46:BY:36:LYS:HZ2	2.16	0.44
46:BY:63:ASP:OD1	46:BY:65:GLN:N	2.50	0.44
46:BY:75:ASN:O	46:BY:84:GLU:N	2.45	0.44
32:BK:70:LYS:HE2	32:BK:70:LYS:HB2	1.47	0.44
3:AD:64:A:C2	3:AD:65:G:C8	3.05	0.44
24:BA:2174:C:O2'	26:BC:218:MET:HG3	2.17	0.44
24:BA:2177:C:N3	24:BA:2178:C:C5	2.86	0.44
26:BC:22:ILE:HD12	26:BC:190:ARG:CZ	2.48	0.44
46:BY:112:ARG:HH11	46:BY:112:ARG:HG3	1.83	0.44
1:AA:1171:G:C2'	1:AA:1172:C:H6	2.31	0.44
1:AA:489:C:O2'	1:AA:490:G:C5'	2.65	0.44
32:BK:47:LEU:HG	32:BK:51:ILE:CD1	2.48	0.44
2:A1:18:U:O4	4:AE:76:GLN:NE2	2.50	0.44
1:AA:108:G:C5'	1:AA:109:A:H5''	2.36	0.44
1:AA:124:G:C6	1:AA:125:U:N3	2.86	0.44
1:AA:1315:U:O2	1:AA:1360:A:H2	2.00	0.44
1:AA:1224:G:N2	1:AA:1362(A):C:C4	2.81	0.44
1:AA:1376:U:OP1	9:AJ:98:SER:CB	2.66	0.44
1:AA:1390:U:N3	1:AA:1391:U:C4	2.86	0.44
1:AA:1402:C:H2'	1:AA:1403:C:C6	2.45	0.44
1:AA:1423:G:C2	1:AA:1424:C:C2	3.05	0.44
1:AA:1434:A:N7	1:AA:1435:G:C5	2.85	0.44
1:AA:1434:A:N7	1:AA:1435:G:N7	2.66	0.44
1:AA:1483:A:H2'	1:AA:1484:C:O5'	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1403:C:C1'	1:AA:1500:A:H61	2.14	0.44
1:AA:20:U:O4'	1:AA:572:A:C6	2.70	0.44
1:AA:27:G:C8	1:AA:27:G:OP2	2.70	0.44
1:AA:307:C:C2'	1:AA:307:C:O2	2.65	0.44
1:AA:380:G:C6	1:AA:384:G:O6	2.71	0.44
1:AA:38:G:N3	1:AA:397:A:C6	2.86	0.44
1:AA:544:G:C6	1:AA:545:C:N4	2.86	0.44
1:AA:581:G:O6	1:AA:758:G:C8	2.71	0.44
1:AA:621:A:N6	1:AA:622:A:N6	2.65	0.44
1:AA:593:G:N1	1:AA:647:C:C2	2.86	0.44
1:AA:655:A:C6	1:AA:656:C:C4	3.06	0.44
1:AA:674:G:H4'	20:AU:81:PHE:HZ	1.82	0.44
1:AA:679:C:H6	1:AA:679:C:O5'	2.00	0.44
1:AA:715:A:C4'	1:AA:777:A:N6	2.81	0.44
1:AA:824:C:H4'	10:AK:1:MET:HA	2.00	0.44
1:AA:951:G:C2	1:AA:952:U:C2	3.06	0.44
1:AA:95:G:H2'	1:AA:96:G:H5'	1.98	0.44
3:AC:13:C:H2'	3:AC:14:A:O5'	2.18	0.44
3:AC:4:C:O2'	3:AC:5:G:C5'	2.65	0.44
4:AE:165:VAL:HG23	4:AE:166:ASP:N	2.21	0.44
4:AE:207:ALA:O	4:AE:210:SER:N	2.50	0.44
4:AE:23:ARG:O	4:AE:24:TRP:CD1	2.70	0.44
4:AE:54:THR:CG2	4:AE:199:TYR:HB3	2.48	0.44
5:AF:138:VAL:O	5:AF:170:GLN:NE2	2.51	0.44
7:AH:103:GLY:C	7:AH:107:ARG:NH1	2.71	0.44
7:AH:111:GLU:H	7:AH:111:GLU:HG3	1.56	0.44
7:AH:39:GLY:O	7:AH:68:GLU:OE2	2.36	0.44
9:AJ:113:GLU:HB3	9:AJ:118:VAL:HG11	1.98	0.44
9:AJ:74:GLU:HA	9:AJ:145:ALA:HB3	1.98	0.44
10:AK:112:LEU:CD1	10:AK:133:LEU:HD23	2.48	0.44
10:AK:32:LYS:NZ	10:AK:32:LYS:H	2.13	0.44
11:AL:11:LYS:HA	11:AL:108:VAL:HG11	1.98	0.44
11:AL:42:ARG:O	11:AL:43:ALA:C	2.53	0.44
13:AN:65:ALA:O	13:AN:68:ALA:HB3	2.18	0.44
13:AN:95:ILE:O	13:AN:99:GLN:HG3	2.17	0.44
15:AP:14:ARG:CB	15:AP:44:ARG:HD2	2.46	0.44
5:AF:29:TYR:CB	16:AQ:36:PHE:HE1	2.30	0.44
16:AQ:26:ARG:HB2	16:AQ:39:LEU:HD22	1.99	0.44
17:AR:42:HIS:ND1	17:AR:43:LEU:N	2.66	0.44
18:AS:19:ILE:HG22	18:AS:36:ILE:O	2.17	0.44
19:AT:10:VAL:CG1	19:AT:54:GLY:N	2.74	0.44
19:AT:63:ARG:O	19:AT:65:ILE:HG22	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
21:AV:19:VAL:HG11	21:AV:44:MET:HE3	2.00	0.44
21:AV:30:LEU:CD1	21:AV:50:ALA:HB2	2.47	0.44
21:AV:30:LEU:CD2	21:AV:50:ALA:HB2	2.47	0.44
1:AA:194:C:O3'	22:AW:65:LYS:NZ	2.50	0.44
48:B1:42:ASN:O	48:B1:45:ILE:CG1	2.63	0.44
49:B2:10:LYS:NZ	49:B2:12:PRO:CD	2.79	0.44
50:B3:5:ILE:HG13	50:B3:10:VAL:H	1.82	0.44
51:B4:10:LYS:HB3	51:B4:10:LYS:HE2	1.81	0.44
43:BV:19:LEU:CD2	51:B4:25:LEU:HD22	2.47	0.44
54:B7:29:LYS:C	54:B7:34:TRP:CZ2	2.91	0.44
54:B7:58:ILE:HD12	54:B7:59:LYS:N	2.33	0.44
24:BA:1000:A:C6	24:BA:1001:A:C2	3.05	0.44
24:BA:104:U:C2'	24:BA:105:C:O4'	2.47	0.44
24:BA:1102:C:O2'	24:BA:1103:A:H8	2.01	0.44
24:BA:999:U:O2	24:BA:1157:G:N2	2.50	0.44
24:BA:1171:G:C8	24:BA:1173:G:H4'	2.52	0.44
24:BA:1176:G:H3'	24:BA:1177:A:O4'	2.18	0.44
24:BA:118:A:O2'	24:BA:178:G:C5'	2.63	0.44
24:BA:1255:U:H2'	24:BA:1255:U:O2	2.17	0.44
24:BA:1323:U:O4	24:BA:1324:G:O6	2.36	0.44
24:BA:1429:G:H2'	24:BA:1430:C:C6	2.52	0.44
24:BA:1440:G:C5	24:BA:1441:G:N7	2.86	0.44
24:BA:1442:G:N1	24:BA:1443:G:C6	2.86	0.44
24:BA:1348:G:C6	24:BA:1599:C:N3	2.86	0.44
24:BA:1630:G:H2'	24:BA:1630(A):C:C6	2.48	0.44
24:BA:1660:C:O2'	24:BA:1661:G:C5'	2.65	0.44
24:BA:1685:C:O2'	24:BA:1686:C:C5'	2.60	0.44
24:BA:118:A:H1'	24:BA:178:G:C4'	2.48	0.44
24:BA:1910:G:C6	24:BA:1911:U:C4	3.06	0.44
24:BA:1949:G:N7	24:BA:1950:G:C8	2.86	0.44
24:BA:1980:G:C5	24:BA:1982:C:C4	3.05	0.44
24:BA:2026:C:C2'	24:BA:2027:G:C5'	2.96	0.44
24:BA:2267:A:N1	24:BA:2272:U:O4	2.51	0.44
24:BA:2295:C:OP1	39:BR:9:ARG:HD2	2.18	0.44
24:BA:2303:G:N1	24:BA:2304:G:C5	2.86	0.44
24:BA:2309:A:C6	24:BA:2310:A:C4	3.06	0.44
24:BA:2376:A:C2	24:BA:2377:A:N3	2.85	0.44
24:BA:2450:A:C2	24:BA:2451:A:N3	2.85	0.44
24:BA:2466:C:O2'	24:BA:2467:C:H5'	2.17	0.44
24:BA:2513:G:H2'	24:BA:2514:U:C5	2.50	0.44
24:BA:2519:U:O2	24:BA:2519:U:C2'	2.63	0.44
24:BA:2607:G:N3	24:BA:2608:G:O4'	2.51	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2610:C:O2'	24:BA:2611:U:OP2	2.24	0.44
24:BA:261:G:C2'	24:BA:262:A:H5'	2.47	0.44
24:BA:2734:A:C2	28:BE:203:LYS:HD2	2.52	0.44
24:BA:2774:C:H2'	24:BA:2774:C:O2	2.17	0.44
24:BA:2808:U:O2'	24:BA:2810:A:O5'	2.28	0.44
24:BA:298:G:H1	24:BA:338:G:C2'	2.31	0.44
24:BA:356:G:C3'	24:BA:357:A:C8	3.00	0.44
24:BA:224:G:N7	24:BA:420:C:H5'	2.33	0.44
24:BA:572:A:C8	24:BA:573:G:C5	3.06	0.44
24:BA:619:G:O6	29:BF:103:LYS:NZ	2.23	0.44
24:BA:693:C:C2'	24:BA:694:U:O5'	2.66	0.44
24:BA:731:C:H2'	24:BA:732:C:H5'	2.00	0.44
25:BB:73:A:C5	25:BB:104:A:C4	3.06	0.44
25:BB:106:G:C4	25:BB:107:U:C5	3.06	0.44
25:BB:12:C:N4	47:BZ:74:ARG:O	2.51	0.44
27:BD:137:PRO:HG2	27:BD:140:THR:HG21	1.99	0.44
24:BA:730:C:OP2	27:BD:211:ARG:NH2	2.50	0.44
27:BD:234:GLY:CA	27:BD:241:PRO:HG2	2.48	0.44
28:BE:111:ARG:HB2	28:BE:161:GLY:HA3	1.98	0.44
28:BE:149:ARG:HH11	28:BE:151:TYR:C	2.21	0.44
28:BE:19:ARG:HB3	35:BN:73:ASP:OD2	2.18	0.44
28:BE:37:ARG:N	28:BE:40:GLU:HB2	2.33	0.44
28:BE:5:LEU:HD23	28:BE:7:VAL:CA	2.48	0.44
28:BE:9:VAL:HG13	40:BS:3:ARG:HG2	1.99	0.44
29:BF:119:ARG:NH2	29:BF:119:ARG:CB	2.60	0.44
29:BF:176:LEU:CD1	29:BF:178:PRO:HD2	2.47	0.44
30:BG:33:ARG:HH22	30:BG:34:LEU:CA	2.31	0.44
30:BG:56:ALA:HA	30:BG:59:GLU:CG	2.48	0.44
30:BG:59:GLU:O	30:BG:63:ILE:HB	2.18	0.44
31:BH:95:ARG:O	31:BH:105:LEU:HA	2.18	0.44
31:BH:124:GLU:O	31:BH:131:VAL:HG22	2.17	0.44
31:BH:124:GLU:HB3	31:BH:132:ARG:NH1	2.32	0.44
31:BH:153:LYS:O	31:BH:161:GLY:HA3	2.18	0.44
32:BK:6:LEU:HD13	32:BK:7:GLU:OE2	2.16	0.44
32:BK:9:LEU:O	32:BK:9:LEU:HD23	2.18	0.44
35:BN:70:LYS:HE2	35:BN:103:ALA:HB3	1.99	0.44
35:BN:31:LYS:CB	35:BN:32:TYR:CE2	3.01	0.44
35:BN:22:ILE:HD12	35:BN:40:VAL:HG11	1.99	0.44
36:BO:122:PRO:HB2	36:BO:123:LEU:H	1.53	0.44
36:BO:55:ARG:CA	36:BO:55:ARG:NH2	2.79	0.44
24:BA:627:A:H8	36:BO:75:ILE:CG2	2.31	0.44
36:BO:88:LEU:HG	36:BO:124:LYS:CE	2.46	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BP:51:ARG:HH11	37:BP:51:ARG:HG2	1.83	0.44
38:BQ:57:ARG:HH11	38:BQ:57:ARG:CG	2.31	0.44
39:BR:11:LYS:HA	39:BR:14:VAL:CB	2.47	0.44
39:BR:62:LYS:CB	39:BR:65:VAL:CG1	2.88	0.44
39:BR:97:ARG:NH2	39:BR:97:ARG:CG	2.79	0.44
40:BS:50:ILE:HG23	40:BS:68:TYR:CB	2.48	0.44
40:BS:28:VAL:CG2	40:BS:94:ALA:N	2.81	0.44
42:BU:5:VAL:CG2	42:BU:39:LEU:HD22	2.48	0.44
42:BU:73:SER:HG	42:BU:89:GLN:CB	2.23	0.44
42:BU:83:ARG:HD3	42:BU:84:LYS:CA	2.46	0.44
43:BV:33:ARG:HH12	43:BV:48:ALA:CB	2.22	0.44
25:BB:75:G:N2	46:BY:85:HIS:CE1	2.86	0.44
46:BY:9:TYR:HB2	46:BY:14:LYS:HG3	1.98	0.44
47:BZ:50:ASN:HB2	47:BZ:81:VAL:CB	2.46	0.44
3:AD:56:C:C3'	3:AD:57:G:C8	2.99	0.44
24:BA:2142:C:N4	24:BA:2143:C:N4	2.66	0.44
24:BA:2146:C:P	24:BA:2147:G:OP2	2.75	0.44
26:BC:19:ILE:CD1	26:BC:223:ARG:HH11	2.31	0.44
26:BC:26:ALA:O	26:BC:30:LYS:CG	2.65	0.44
45:BX:42:VAL:C	45:BX:61:ILE:HD13	2.38	0.44
48:B1:6:GLU:CA	48:B1:6:GLU:OE1	2.65	0.44
24:BA:1483:G:N3	24:BA:1483:G:C2'	2.78	0.44
24:BA:55:G:H2'	24:BA:56:A:C8	2.53	0.44
37:BP:139:GLU:OE1	37:BP:140:ALA:O	2.36	0.44
2:A1:46:U:O2	3:AB:34:G:C2	2.70	0.44
1:AA:1102:A:C2'	1:AA:1103:C:O5'	2.65	0.44
1:AA:1230:C:O2	15:AP:126:LYS:HG2	2.17	0.44
1:AA:1241:G:C4	1:AA:1242:C:C5	3.06	0.44
1:AA:1301:U:O4	1:AA:1303:C:H1'	2.18	0.44
1:AA:1315:U:O2'	1:AA:1360:A:N9	2.50	0.44
1:AA:139:G:N2	1:AA:225:C:C2	2.86	0.44
1:AA:1401:G:O2'	1:AA:1402:C:H5'	2.17	0.44
1:AA:1411:C:H2'	1:AA:1412:C:C6	2.50	0.44
1:AA:1435:G:H2'	1:AA:1436:U:H5	1.76	0.44
1:AA:1418:A:N1	1:AA:1483:A:N1	2.66	0.44
1:AA:166:G:O2'	1:AA:167:G:C5'	2.60	0.44
1:AA:282:A:C5	1:AA:283:C:C5	3.06	0.44
1:AA:394:G:C5	1:AA:395:C:C5	3.06	0.44
1:AA:44:G:C6	1:AA:399:G:C6	3.06	0.44
1:AA:665:A:C8	1:AA:725:G:C2	3.06	0.44
1:AA:754:C:O5'	17:AR:72:ARG:NH2	2.50	0.44
1:AA:760:G:C2	19:AT:104:LYS:O	2.70	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:780:A:C2	1:AA:803:G:C6	3.04	0.44
1:AA:830:G:C5	1:AA:831:U:C5	3.06	0.44
1:AA:865:A:C8	1:AA:865:A:OP2	2.71	0.44
1:AA:22:G:O4'	1:AA:885:G:C1'	2.65	0.44
1:AA:894:G:C6	1:AA:895:G:C5	3.06	0.44
1:AA:973:G:C2	1:AA:974:A:N7	2.86	0.44
3:AB:52:G:N1	3:AB:63:G:C6	2.86	0.44
3:AC:4:C:C2	3:AC:5:G:C8	3.06	0.44
3:AC:9:A:C4'	3:AC:10:G:OP2	2.66	0.44
4:AE:106:LYS:O	4:AE:110:GLN:OE1	2.36	0.44
1:AA:1104:G:H4'	4:AE:111:ARG:HH21	1.83	0.44
4:AE:53:ARG:NE	4:AE:199:TYR:CE2	2.82	0.44
4:AE:28:PHE:HA	4:AE:194:PRO:CG	2.48	0.44
4:AE:72:GLY:HA2	4:AE:165:VAL:HG21	1.96	0.44
5:AF:10:PHE:O	5:AF:178:LEU:HD22	2.17	0.44
5:AF:159:GLY:O	5:AF:160:ALA:O	2.36	0.44
5:AF:39:ILE:O	5:AF:40:ARG:C	2.54	0.44
5:AF:82:GLU:OE1	5:AF:83:ARG:N	2.51	0.44
6:AG:85:LYS:HZ3	6:AG:85:LYS:HB3	1.79	0.44
7:AH:19:MET:HE3	7:AH:20:GLN:N	2.32	0.44
8:AI:60:PHE:CZ	20:AU:78:LEU:HD21	2.52	0.44
9:AJ:126:ASP:O	9:AJ:131:LYS:HG3	2.17	0.44
9:AJ:74:GLU:CA	9:AJ:145:ALA:HB1	2.46	0.44
10:AK:100:ILE:CG2	10:AK:121:ASP:HA	2.48	0.44
10:AK:107:LEU:CD2	10:AK:107:LEU:N	2.78	0.44
10:AK:22:GLU:CB	10:AK:63:LEU:HD22	2.47	0.44
1:AA:1342:C:O2'	11:AL:124:GLN:CA	2.66	0.44
11:AL:72:GLY:HA2	11:AL:75:ASP:OD2	2.18	0.44
11:AL:89:ASN:O	11:AL:91:ASP:N	2.50	0.44
5:AF:23:TYR:CG	12:AM:11:PHE:HB2	2.53	0.44
12:AM:40:LEU:HD12	12:AM:69:ASN:HB3	1.99	0.44
12:AM:30:SER:CA	12:AM:80:LYS:HG3	2.48	0.44
13:AN:18:ARG:HB3	13:AN:83:ILE:CD1	2.48	0.44
14:AO:33:ARG:HG3	14:AO:60:LEU:HD23	2.00	0.44
14:AO:53:ARG:NH1	14:AO:93:LEU:HD22	2.32	0.44
15:AP:98:VAL:HG23	15:AP:110:ARG:NH2	2.24	0.44
16:AQ:29:ARG:HD3	16:AQ:40:CYS:HB3	2.00	0.44
17:AR:67:LEU:O	17:AR:70:LEU:CB	2.60	0.44
17:AR:77:ARG:HH12	17:AR:81:LEU:CA	2.28	0.44
19:AT:41:LYS:C	19:AT:42:TYR:CD1	2.91	0.44
19:AT:62:SER:HB2	19:AT:63:ARG:H	1.65	0.44
19:AT:81:ARG:CG	19:AT:84:LEU:HD11	2.47	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AI:98:LEU:HD23	20:AU:28:GLU:HA	2.00	0.44
21:AV:63:THR:O	21:AV:64:GLU:C	2.56	0.44
1:AA:108:G:C5	22:AW:15:ARG:CZ	3.01	0.44
22:AW:30:LYS:O	22:AW:31:SER:C	2.56	0.44
22:AW:50:GLU:HB2	22:AW:99:LEU:HD12	1.99	0.44
50:B3:59:PHE:HA	50:B3:62:ARG:NE	2.33	0.44
51:B4:12:SER:HB3	51:B4:14:ALA:CB	2.47	0.44
24:BA:2020:A:C8	51:B4:9:LYS:NZ	2.86	0.44
52:B5:13:CYS:HA	52:B5:23:THR:O	2.18	0.44
53:B6:21:ARG:CB	53:B6:31:LEU:HD21	2.47	0.44
53:B6:45:ALA:O	53:B6:46:VAL:C	2.56	0.44
53:B6:47:ARG:CG	53:B6:48:LYS:N	2.78	0.44
54:B7:31:HIS:O	54:B7:32:LEU:CD2	2.65	0.44
24:BA:242:G:C3'	54:B7:4:MET:SD	3.02	0.44
24:BA:1024:G:N7	24:BA:1134:G:H1'	2.33	0.44
24:BA:1090:U:C4	24:BA:1103:A:N1	2.86	0.44
24:BA:78:A:C2	24:BA:109:G:C2	3.05	0.44
24:BA:1025:G:H8	24:BA:1134:G:C1'	2.31	0.44
24:BA:1171:G:P	24:BA:1171:G:O4'	2.76	0.44
24:BA:974:G:O2'	24:BA:1186:G:N3	2.38	0.44
24:BA:1260:G:H2'	24:BA:1260:G:N3	2.33	0.44
24:BA:1314:C:C2	24:BA:1315:C:C6	3.05	0.44
24:BA:1314:C:C4	24:BA:1315:C:N4	2.86	0.44
24:BA:1314:C:C2	24:BA:1339:G:C2	3.05	0.44
24:BA:1435:G:C4	24:BA:1436:G:C8	3.06	0.44
24:BA:144:C:C2	24:BA:145:G:C8	3.06	0.44
24:BA:1464:C:C2	24:BA:1465:G:C8	3.05	0.44
24:BA:1477:A:H2	24:BA:1516:U:C2	2.35	0.44
24:BA:1518:C:N3	24:BA:1519:G:C1'	2.81	0.44
24:BA:1537:C:O5'	24:BA:1537:C:H6	2.01	0.44
24:BA:1608:A:C8	24:BA:1611:C:N4	2.86	0.44
24:BA:1741:C:C2'	24:BA:1742:C:O4'	2.66	0.44
24:BA:1769:G:C2	24:BA:1984:G:C5	3.06	0.44
24:BA:118:A:H1'	24:BA:178:G:H4'	2.00	0.44
24:BA:2009:G:O3'	43:BV:41:LYS:HG2	2.17	0.44
24:BA:2082:A:C2	24:BA:2083:G:C4	3.06	0.44
24:BA:2094:G:C2	24:BA:2196:C:N3	2.86	0.44
24:BA:2266:A:C4	24:BA:2272:U:C5	3.06	0.44
24:BA:2431:U:O2	24:BA:2433:A:N3	2.51	0.44
24:BA:2444:G:N1	24:BA:2445:G:C6	2.85	0.44
24:BA:2487:G:C2'	24:BA:2488:A:O5'	2.65	0.44
24:BA:250:G:O2'	24:BA:251:A:O5'	2.36	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2530:A:C3'	24:BA:2531:A:C5'	2.90	0.44
24:BA:25:U:O2	24:BA:25:U:C2'	2.66	0.44
24:BA:2630:G:C4	24:BA:2894:G:C5	3.06	0.44
24:BA:2655:G:O2'	24:BA:2656:U:C5	2.67	0.44
24:BA:1665:A:H8	24:BA:2726:U:H3	1.54	0.44
24:BA:2748:A:C5	24:BA:2757:A:N6	2.86	0.44
24:BA:2823:A:OP2	28:BE:113:PHE:CZ	2.71	0.44
24:BA:2832:U:H2'	24:BA:2832:U:O2	2.18	0.44
24:BA:2848:G:O2'	24:BA:2849:U:O5'	2.34	0.44
24:BA:2875:C:O5'	24:BA:2875:C:H6	2.01	0.44
24:BA:2880:C:C6	38:BQ:91:GLN:HB3	2.52	0.44
24:BA:28:A:H2'	24:BA:29:U:C5'	2.45	0.44
24:BA:301:G:H5''	24:BA:335:C:OP1	2.18	0.44
24:BA:300:A:HO2'	24:BA:318:C:H1'	1.83	0.44
24:BA:35:G:N9	24:BA:454:A:N3	2.65	0.44
24:BA:389:G:P	50:B3:24:THR:HG23	2.57	0.44
24:BA:411:G:C2	24:BA:2407:G:C6	3.05	0.44
24:BA:414:C:H2'	24:BA:415:A:H8	1.82	0.44
24:BA:467:G:HO2'	24:BA:796:C:HO2'	1.63	0.44
24:BA:480:A:H3'	24:BA:481:G:H5''	1.99	0.44
24:BA:514:A:O2'	24:BA:515:A:H5'	2.17	0.44
24:BA:523:C:H2'	24:BA:524:U:O4'	2.18	0.44
24:BA:543:C:O2	24:BA:544:C:C5	2.71	0.44
24:BA:659:C:H4'	29:BF:102:PRO:HD3	2.00	0.44
24:BA:675:A:C5	24:BA:676:A:N1	2.86	0.44
24:BA:687:C:H2'	24:BA:688:U:C6	2.52	0.44
24:BA:944:G:N3	24:BA:944:G:H2'	2.32	0.44
24:BA:95:G:O2'	48:B1:42:ASN:CB	2.64	0.44
24:BA:1818:U:C4	27:BD:156:ALA:HB3	2.53	0.44
27:BD:226:MET:HE1	27:BD:237:GLU:H	1.83	0.44
27:BD:252:TRP:HE3	27:BD:252:TRP:HA	1.80	0.44
27:BD:264:LYS:HB2	27:BD:265:PRO:CD	2.47	0.44
27:BD:70:TRP:O	27:BD:73:VAL:HG22	2.18	0.44
28:BE:55:ASN:CB	28:BE:73:GLU:CD	2.86	0.44
29:BF:118:ALA:HA	29:BF:122:LYS:HZ3	1.83	0.44
29:BF:37:VAL:O	29:BF:41:LEU:CD2	2.66	0.44
30:BG:135:LEU:CD2	30:BG:137:GLU:N	2.80	0.44
24:BA:2312:U:C5'	30:BG:43:LEU:HD21	2.43	0.44
30:BG:63:ILE:HA	30:BG:63:ILE:HD12	1.92	0.44
31:BH:15:VAL:CG2	31:BH:16:SER:N	2.81	0.44
31:BH:7:LEU:CA	31:BH:52:VAL:CG1	2.95	0.44
31:BH:7:LEU:CD2	31:BH:65:HIS:NE2	2.78	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:BH:75:ALA:O	31:BH:79:VAL:HG22	2.18	0.44
32:BK:10:GLU:O	32:BK:11:ASN:OD1	2.35	0.44
32:BK:45:LYS:O	32:BK:46:ALA:C	2.55	0.44
33:BL:104:VAL:HG22	33:BL:127:ILE:CG2	2.48	0.44
33:BL:76:TYR:O	33:BL:80:LYS:CD	2.49	0.44
34:BM:136:GLU:O	34:BM:137:LYS:CG	2.66	0.44
34:BM:19:GLU:HB2	34:BM:56:ASN:HB2	1.97	0.44
34:BM:2:LYS:HB3	34:BM:2:LYS:HE2	1.83	0.44
34:BM:69:GLN:HE22	34:BM:87:LEU:CD2	2.02	0.44
34:BM:96:GLU:O	34:BM:99:LEU:CG	2.50	0.44
35:BN:106:LEU:CD2	40:BS:38:ASN:ND2	2.81	0.44
35:BN:106:LEU:HD12	35:BN:107:ARG:HA	2.00	0.44
35:BN:105:GLU:O	35:BN:107:ARG:N	2.51	0.44
35:BN:59:LYS:HB3	35:BN:86:ILE:H	1.83	0.44
29:BF:31:HIS:CE1	36:BO:11:GLY:HA3	2.52	0.44
37:BP:25:ASP:CA	37:BP:102:VAL:HG12	2.48	0.44
37:BP:116:GLU:HA	37:BP:119:ARG:HD3	1.99	0.44
24:BA:2690:C:C4	38:BQ:14:SER:HB2	2.53	0.44
24:BA:1652:A:OP1	38:BQ:39:PRO:HG2	2.18	0.44
39:BR:49:VAL:HG11	39:BR:80:LEU:CG	2.32	0.44
39:BR:70:GLY:HA3	39:BR:104:GLY:HA3	1.99	0.44
40:BS:26:ASP:O	40:BS:52:ILE:HG22	2.17	0.44
40:BS:61:PHE:HD1	40:BS:81:PRO:CD	2.24	0.44
35:BN:75:SER:O	40:BS:77:PRO:HG2	2.18	0.44
40:BS:23:ARG:HH21	40:BS:90:GLN:N	2.16	0.44
24:BA:2020:A:OP2	41:BT:27:LEU:CD2	2.65	0.44
41:BT:24:TYR:O	41:BT:29:SER:HB3	2.17	0.44
41:BT:55:ARG:NH1	41:BT:55:ARG:CG	2.63	0.44
41:BT:89:GLU:O	41:BT:90:VAL:HG23	2.18	0.44
42:BU:33:VAL:CG1	42:BU:34:GLU:H	2.31	0.44
42:BU:69:LYS:HE2	42:BU:70:ILE:CG1	2.48	0.44
43:BV:13:SER:O	43:BV:17:VAL:CG2	2.65	0.44
43:BV:13:SER:OG	43:BV:16:LYS:CE	2.65	0.44
44:BW:28:PHE:N	44:BW:28:PHE:CD2	2.83	0.44
44:BW:36:LYS:HE3	44:BW:56:THR:CG2	2.47	0.44
24:BA:71:A:O2'	44:BW:5:TYR:CE2	2.67	0.44
44:BW:29:TRP:HB2	44:BW:76:ARG:HH21	1.82	0.44
45:BX:74:PRO:CG	45:BX:100:ALA:HB3	2.45	0.44
45:BX:72:VAL:HG23	45:BX:81:LYS:HE2	1.97	0.44
46:BY:55:HIS:HB3	46:BY:101:PRO:CD	2.47	0.44
46:BY:114:GLY:N	46:BY:145:GLU:OE2	2.50	0.44
46:BY:49:ARG:C	46:BY:51:ALA:H	2.21	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AD:62:C:H6	3:AD:62:C:O5'	2.01	0.44
26:BC:103:ILE:HD13	26:BC:110:PHE:HZ	1.83	0.44
26:BC:200:LYS:O	26:BC:200:LYS:CG	2.63	0.44
26:BC:13:LYS:CB	26:BC:32:LEU:HD23	2.48	0.44
26:BC:64:LEU:CB	26:BC:188:ASN:HD21	2.30	0.44
26:BC:73:ARG:CG	26:BC:93:TYR:HE2	2.30	0.44
1:AA:344:A:H5''	1:AA:345:C:H5	1.78	0.44
1:AA:160:A:C1'	1:AA:344:A:H62	2.31	0.44
33:BL:98:ARG:HA	33:BL:137:GLU:O	2.17	0.44
24:BA:487:C:O5'	24:BA:487:C:C6	2.70	0.44
1:AA:1011:G:N1	1:AA:1012:U:H1'	2.33	0.44
24:BA:1284:A:C2	24:BA:1285:G:C2	3.05	0.44
24:BA:2181:G:N2	24:BA:2182:G:C4	2.85	0.44
24:BA:2180:U:H2'	24:BA:2181:G:O4'	2.18	0.44
1:AA:74:C:N3	1:AA:75:C:C5	2.86	0.44
2:A1:37:U:H2'	2:A1:38:U:C5	2.53	0.44
1:AA:1142:G:C4	1:AA:1143:G:C8	3.06	0.44
1:AA:119:A:H62	1:AA:287:U:H3	1.66	0.44
1:AA:1389:C:H2'	1:AA:1390:U:C4'	2.47	0.44
1:AA:142:G:N3	1:AA:142:G:H2'	2.32	0.44
1:AA:1431:C:O2	1:AA:1432:G:C1'	2.66	0.44
1:AA:152:A:C3'	1:AA:152:A:C8	3.00	0.44
1:AA:166:G:C2'	1:AA:167:G:O5'	2.66	0.44
1:AA:186(A):C:C4'	22:AW:85:MET:HG3	2.47	0.44
1:AA:187:C:N3	1:AA:188:U:O2	2.51	0.44
1:AA:270:A:C8	1:AA:270:A:OP2	2.69	0.44
1:AA:245:C:N3	1:AA:284:G:C6	2.85	0.44
1:AA:298:A:C2	1:AA:299:G:H1'	2.53	0.44
1:AA:321:A:HO2'	1:AA:322:C:H6	1.66	0.44
1:AA:352:C:H6	1:AA:352:C:P	2.40	0.44
1:AA:355:C:C2	1:AA:356:A:C8	3.06	0.44
1:AA:398:C:H2'	1:AA:399:G:H8	1.82	0.44
1:AA:420:U:H1'	1:AA:424:G:N2	2.32	0.44
1:AA:529:G:N1	14:AO:49:ASN:CG	2.71	0.44
1:AA:535:A:C4'	1:AA:536:C:OP2	2.63	0.44
1:AA:581:G:O6	1:AA:758:G:N7	2.51	0.44
1:AA:597:G:C2'	1:AA:598:U:C5'	2.94	0.44
1:AA:645:C:O2'	1:AA:646:U:H5'	2.18	0.44
1:AA:818:G:H3'	1:AA:820:U:OP2	2.17	0.44
1:AA:907:A:N3	1:AA:908:A:C8	2.86	0.44
1:AA:926:G:C4	1:AA:1505:G:C2	3.05	0.44
1:AA:938:A:C2'	1:AA:939:G:O5'	2.66	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:93:U:H2'	1:AA:95:G:N7	2.31	0.44
3:AB:63:G:C1'	24:BA:2482:G:C4'	2.91	0.44
3:AC:29:G:C6	3:AC:42:C:N3	2.86	0.44
4:AE:152:PHE:HZ	4:AE:155:LEU:O	2.01	0.44
4:AE:208:ILE:O	4:AE:211:ILE:HB	2.18	0.44
4:AE:8:LYS:HB3	4:AE:9:GLU:H	1.61	0.44
5:AF:147:LYS:HB2	5:AF:203:PHE:HD2	1.83	0.44
5:AF:98:ASN:C	5:AF:99:VAL:CG1	2.86	0.44
6:AG:165:MET:CG	6:AG:166:LYS:N	2.81	0.44
6:AG:55:ALA:C	6:AG:59:ARG:HG2	2.31	0.44
6:AG:76:ARG:O	6:AG:80:GLU:HG3	2.18	0.44
7:AH:91:LEU:C	7:AH:91:LEU:CD2	2.68	0.44
7:AH:96:PRO:O	7:AH:97:GLY:C	2.55	0.44
8:AI:9:VAL:HA	8:AI:10:LEU:HD23	2.00	0.44
8:AI:81:ILE:CG2	8:AI:82:ARG:N	2.56	0.44
9:AJ:36:LYS:HA	9:AJ:36:LYS:HZ1	1.75	0.44
9:AJ:65:ALA:HA	9:AJ:68:ASN:HD22	1.83	0.44
11:AL:50:LEU:CD1	11:AL:56:LEU:HG	2.41	0.44
5:AF:23:TYR:CD1	12:AM:11:PHE:N	2.86	0.44
13:AN:99:GLN:O	13:AN:102:GLY:HA2	2.18	0.44
1:AA:718:G:C4'	13:AN:117:ASN:ND2	2.81	0.44
14:AO:102:ARG:NE	14:AO:109:GLY:HA2	2.33	0.44
14:AO:78:GLN:N	14:AO:81:SER:OG	2.51	0.44
17:AR:7:GLU:C	17:AR:10:LYS:HG2	2.34	0.44
17:AR:27:VAL:O	17:AR:31:LEU:HD13	2.18	0.44
18:AS:8:ARG:HD3	18:AS:15:PRO:CB	2.47	0.44
19:AT:15:MET:CE	19:AT:15:MET:H	2.30	0.44
19:AT:18:THR:HG22	19:AT:43:LEU:CD2	2.31	0.44
19:AT:58:GLU:OE1	19:AT:58:GLU:C	2.55	0.44
21:AV:47:HIS:H	21:AV:62:ILE:HG23	1.82	0.44
1:AA:1225:A:H5'	21:AV:78:ARG:NH1	2.32	0.44
22:AW:88:VAL:O	22:AW:92:LEU:CG	2.66	0.44
48:B1:50:ARG:HB2	48:B1:54:ARG:NH1	2.33	0.44
49:B2:2:PRO:HD2	49:B2:39:ASP:HB3	2.00	0.44
49:B2:7:LYS:O	49:B2:54:VAL:CG2	2.59	0.44
50:B3:6:HIS:CG	50:B3:56:VAL:HA	2.53	0.44
53:B6:19:ARG:HH11	53:B6:19:ARG:HG2	1.82	0.44
54:B7:30:ARG:O	54:B7:31:HIS:C	2.56	0.44
54:B7:60:LEU:O	54:B7:61:LEU:C	2.57	0.44
24:BA:2741:A:H5''	55:B8:22:ARG:HH12	1.83	0.44
24:BA:1011:G:O2'	24:BA:1013:C:H4'	2.18	0.44
24:BA:1020:A:H2	24:BA:1140:C:C2'	2.30	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1048:A:OP2	24:BA:1110:G:N2	2.50	0.44
24:BA:1057:A:C8	24:BA:1084:A:N6	2.86	0.44
24:BA:1106:G:N1	24:BA:1107:G:C2	2.86	0.44
24:BA:1124:C:H2'	24:BA:1125:G:O4'	2.18	0.44
24:BA:1266:G:C2'	24:BA:1267:U:OP2	2.65	0.44
24:BA:1350:C:O2'	24:BA:1351:C:C5'	2.62	0.44
24:BA:1420:U:O2'	24:BA:1421:G:C8	2.63	0.44
24:BA:145:G:C2	24:BA:146:G:C4	3.06	0.44
24:BA:1591:G:N1	24:BA:1592:C:C4	2.86	0.44
24:BA:1596:A:N6	24:BA:1597:A:N1	2.65	0.44
24:BA:1620:G:C6	24:BA:1621:U:C4	3.06	0.44
24:BA:1753:G:C6	24:BA:1756:G:C6	3.06	0.44
24:BA:1769:G:C6	24:BA:1984:G:O6	2.71	0.44
24:BA:1777:U:H6	24:BA:1777:U:O5'	2.00	0.44
24:BA:1784:A:H2'	24:BA:1981:A:C8	2.53	0.44
24:BA:1789:A:H4'	27:BD:222:ARG:NE	2.33	0.44
3:AB:12:U:C5'	24:BA:1915:U:H5'	2.47	0.44
24:BA:563:G:C6	24:BA:2018:G:C6	3.06	0.44
24:BA:2026:C:H2'	24:BA:2027:G:C5'	2.48	0.44
24:BA:2092:U:P	24:BA:2199:A:H1'	2.57	0.44
24:BA:2199:A:C2	24:BA:2205:C:C6	3.06	0.44
24:BA:2414:G:C6	24:BA:2415:G:N7	2.86	0.44
24:BA:197:A:C6	24:BA:2430:A:N7	2.86	0.44
3:AB:52:G:H1'	24:BA:2470:G:O2'	2.17	0.44
24:BA:2543:G:H2'	24:BA:2544:G:C8	2.53	0.44
24:BA:2634:G:O2'	24:BA:2635:C:O5'	2.35	0.44
24:BA:2695:C:O2'	24:BA:2696:U:H6	2.00	0.44
24:BA:2719:G:O5'	24:BA:2719:G:C8	2.70	0.44
24:BA:2786:U:N3	24:BA:2787:C:C5	2.85	0.44
24:BA:292:C:H3'	24:BA:293:U:C2	2.51	0.44
24:BA:35:G:H21	24:BA:450:G:N2	2.16	0.44
24:BA:378:C:O2'	24:BA:379:G:C5'	2.63	0.44
24:BA:447:A:O2'	24:BA:448:U:C5'	2.66	0.44
24:BA:462:C:H42	24:BA:467:G:H1	1.65	0.44
24:BA:463:G:O3'	24:BA:464:U:C5	2.71	0.44
24:BA:499:U:C2'	24:BA:500:G:H5'	2.48	0.44
24:BA:508:G:H4'	24:BA:509:C:O5'	2.18	0.44
24:BA:609:A:N6	24:BA:619:G:N2	2.61	0.44
24:BA:649:G:O2'	54:B7:17:THR:CG2	2.66	0.44
24:BA:687:C:O5'	24:BA:688:U:OP2	2.35	0.44
24:BA:718:A:C5'	24:BA:719:C:OP2	2.66	0.44
24:BA:814:C:C4'	24:BA:1224:G:H22	2.30	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:819:A:C2'	24:BA:820:A:O4'	2.65	0.44
24:BA:850:C:O2'	49:B2:22:ALA:HB2	2.18	0.44
24:BA:872:A:H2'	24:BA:872:A:N3	2.33	0.44
24:BA:923:C:H4'	47:BZ:26:TYR:CD1	2.53	0.44
24:BA:968:G:C6	24:BA:969:U:C4	3.06	0.44
24:BA:971:C:O2	24:BA:972:G:H1'	2.17	0.44
24:BA:986:C:O5'	24:BA:986:C:C6	2.67	0.44
24:BA:997:G:O3'	41:BT:92:ARG:NH1	2.50	0.44
25:BB:65:C:C4	25:BB:108:C:C4	3.06	0.44
24:BA:1825:A:OP1	27:BD:247:ALA:HB2	2.16	0.44
27:BD:68:LYS:HG2	27:BD:70:TRP:HZ2	1.82	0.44
28:BE:115:GLY:O	28:BE:118:LYS:N	2.50	0.44
29:BF:11:VAL:HG12	29:BF:13:SER:H	1.83	0.44
29:BF:34:TRP:HA	29:BF:34:TRP:HE3	1.77	0.44
29:BF:38:ARG:O	29:BF:41:LEU:HG	2.18	0.44
24:BA:588:U:H1'	29:BF:90:PHE:CD1	2.52	0.44
30:BG:131:TYR:CD2	30:BG:158:ALA:CB	3.01	0.44
30:BG:131:TYR:CE2	30:BG:132:ASN:HA	2.53	0.44
31:BH:94:TYR:OH	31:BH:128:PRO:CG	2.62	0.44
33:BL:79:ARG:CD	33:BL:134:MET:SD	2.97	0.44
33:BL:20:ALA:O	33:BL:25:PRO:HD2	2.17	0.44
34:BM:74:ARG:HH11	34:BM:76:SER:HB2	1.82	0.44
34:BM:70:LYS:CA	34:BM:85:ILE:O	2.62	0.44
24:BA:2562:U:O2'	35:BN:23:ARG:NH2	2.51	0.44
36:BO:116:GLY:HA3	36:BO:121:LYS:C	2.37	0.44
36:BO:23:PRO:HB2	36:BO:29:LYS:N	2.28	0.44
37:BP:130:LYS:HZ2	37:BP:132:VAL:CG1	2.31	0.44
37:BP:68:ILE:CG2	37:BP:95:ALA:HB2	2.48	0.44
37:BP:75:THR:HG22	37:BP:77:LYS:CA	2.47	0.44
37:BP:76:LYS:NZ	37:BP:78:PRO:O	2.51	0.44
38:BQ:45:ARG:HA	38:BQ:95:THR:HG21	1.99	0.44
39:BR:41:ASP:OD2	39:BR:42:ASP:O	2.36	0.44
24:BA:2334:G:OP2	39:BR:8:GLU:OE2	2.35	0.44
40:BS:80:SER:CB	40:BS:81:PRO:HD3	2.45	0.44
24:BA:2847:U:C5'	40:BS:99:LEU:HD12	2.48	0.44
34:BM:4:TYR:CZ	41:BT:101:ARG:NH1	2.86	0.44
41:BT:31:SER:O	41:BT:33:ARG:N	2.51	0.44
41:BT:61:TRP:O	41:BT:65:ILE:CD1	2.66	0.44
42:BU:35:LEU:O	42:BU:61:VAL:CG1	2.64	0.44
42:BU:73:SER:C	42:BU:74:LYS:HD3	2.38	0.44
43:BV:20:VAL:O	43:BV:24:ILE:HG12	2.18	0.44
44:BW:36:LYS:HD3	44:BW:39:ILE:CD1	2.45	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1312:U:O3'	44:BW:63:LYS:HD2	2.18	0.44
24:BA:1334:G:C5'	44:BW:65:ARG:NH1	2.73	0.44
45:BX:13:VAL:HA	45:BX:73:ARG:HH11	1.83	0.44
46:BY:2:GLU:C	46:BY:3:TYR:CG	2.91	0.44
46:BY:41:LEU:CA	46:BY:44:PHE:HB2	2.48	0.44
46:BY:47:VAL:O	46:BY:50:GLN:N	2.50	0.44
46:BY:70:LEU:O	46:BY:88:PHE:CA	2.64	0.44
47:BZ:47:PRO:CG	47:BZ:53:MET:HB2	2.44	0.44
24:BA:2122:U:H1'	26:BC:166:ASP:OD2	2.18	0.44
24:BA:2135:A:C2'	24:BA:2136:C:OP2	2.66	0.44
26:BC:45:ALA:CB	26:BC:211:SER:O	2.65	0.44
26:BC:224:ILE:O	26:BC:226:PRO:HD3	2.18	0.44
1:AA:1166:G:N3	1:AA:1171:G:O6	2.50	0.44
3:AD:67:C:C4	3:AD:68:C:C5	3.06	0.44
1:AA:112:G:H2'	1:AA:112:G:N3	2.32	0.43
1:AA:1228:C:H4'	15:AP:115:LYS:O	2.17	0.43
1:AA:129(A):G:C8	1:AA:189:U:OP1	2.71	0.43
1:AA:1236:A:C4'	1:AA:1304:G:H4'	2.28	0.43
1:AA:133:U:H5'	1:AA:134:A:OP1	2.17	0.43
1:AA:1408:A:C2	1:AA:1494:G:O2'	2.60	0.43
1:AA:20:U:O2	1:AA:20:U:C2'	2.65	0.43
1:AA:250:A:O2'	1:AA:251:G:P	2.76	0.43
1:AA:261:U:O4	1:AA:264:U:OP2	2.36	0.43
1:AA:270:A:C4	1:AA:271:C:C5	3.06	0.43
1:AA:57:G:O6	1:AA:356:A:N6	2.51	0.43
1:AA:421:U:C2	5:AF:127:ARG:CZ	3.01	0.43
1:AA:594:G:C3'	1:AA:595:G:O4'	2.65	0.43
1:AA:66:G:N1	1:AA:67:C:C4	2.86	0.43
1:AA:675:A:C2'	1:AA:676:A:H8	2.31	0.43
1:AA:679:C:O2'	1:AA:680:C:C5'	2.65	0.43
1:AA:712:A:C6	1:AA:713:G:C6	3.06	0.43
1:AA:666:G:H4'	1:AA:731:G:N2	2.33	0.43
1:AA:734:G:H2'	1:AA:735:C:C5	2.50	0.43
1:AA:736:C:H5''	20:AU:72:ARG:CZ	2.44	0.43
1:AA:787:A:H2'	1:AA:787:A:N3	2.33	0.43
1:AA:832:C:H2'	1:AA:833:U:C5	2.53	0.43
1:AA:977:A:O2'	1:AA:979:C:P	2.75	0.43
3:AC:21:A:H61	3:AC:46:G:N2	2.12	0.43
4:AE:111:ARG:O	4:AE:114:ARG:HG3	2.18	0.43
4:AE:146:GLN:NE2	4:AE:150:SER:CB	2.72	0.43
5:AF:138:VAL:HG13	5:AF:149:ALA:CB	2.48	0.43
5:AF:67:THR:HG23	5:AF:102:ASN:HB3	1.99	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:112:VAL:CG2	6:AG:161:ASN:ND2	2.78	0.43
6:AG:166:LYS:CD	6:AG:178:VAL:HG12	2.48	0.43
7:AH:105:VAL:CG1	7:AH:132:ALA:HA	2.48	0.43
8:AI:12:PRO:HB3	8:AI:58:GLY:CA	2.23	0.43
8:AI:36:ARG:HH11	8:AI:36:ARG:HB2	1.81	0.43
8:AI:67:MET:SD	8:AI:67:MET:C	2.96	0.43
1:AA:1298:C:N1	9:AJ:114:ARG:NH1	2.66	0.43
9:AJ:150:ALA:HA	13:AN:59:TYR:CB	2.48	0.43
9:AJ:90:GLU:O	9:AJ:92:SER:N	2.50	0.43
7:AH:79:GLU:O	10:AK:104:ARG:NH1	2.50	0.43
10:AK:45:ILE:HG13	10:AK:47:GLY:N	2.32	0.43
10:AK:72:PRO:O	10:AK:73:ASP:CB	2.66	0.43
10:AK:95:VAL:HB	10:AK:99:GLU:CD	2.38	0.43
1:AA:1148:U:H6	11:AL:16:ARG:CZ	2.30	0.43
11:AL:93:ARG:C	11:AL:95:LYS:H	2.19	0.43
12:AM:43:ARG:HG3	12:AM:44:VAL:N	2.33	0.43
13:AN:110:ASP:HB2	20:AU:88:LYS:HB3	1.95	0.43
14:AO:11:VAL:HG12	14:AO:11:VAL:O	2.18	0.43
14:AO:34:ARG:CA	14:AO:84:LEU:HD12	2.48	0.43
14:AO:41:ARG:CB	14:AO:41:ARG:CZ	2.95	0.43
15:AP:68:GLY:O	15:AP:71:ARG:HB2	2.18	0.43
15:AP:94:ARG:NH2	24:BA:887:A:OP2	2.51	0.43
5:AF:8:ILE:CG2	16:AQ:49:HIS:O	2.66	0.43
17:AR:18:PHE:CE1	17:AR:21:ASP:HB2	2.53	0.43
18:AS:38:TYR:CE1	18:AS:50:LYS:HB3	2.53	0.43
18:AS:59:TRP:O	18:AS:61:SER:N	2.51	0.43
19:AT:27:PHE:C	19:AT:35:VAL:HG13	2.38	0.43
20:AU:69:THR:HA	20:AU:72:ARG:CG	2.42	0.43
21:AV:46:GLY:C	21:AV:61:TYR:HE2	2.22	0.43
22:AW:99:LEU:N	22:AW:99:LEU:HD23	2.33	0.43
1:AA:1242:C:O3'	23:AX:10:ARG:NH1	2.50	0.43
48:B1:16:LEU:HD22	48:B1:58:VAL:CG2	2.47	0.43
48:B1:36:ILE:C	48:B1:38:GLN:HG3	2.39	0.43
24:BA:1158:C:C5'	49:B2:31:LEU:HB3	2.47	0.43
50:B3:40:HIS:HB3	50:B3:41:PRO:HD3	1.97	0.43
24:BA:1266:G:OP1	51:B4:19:ARG:NE	2.51	0.43
51:B4:31:VAL:HB	51:B4:32:PRO:HD2	1.99	0.43
53:B6:30:VAL:HG22	53:B6:33:ARG:HH21	1.82	0.43
53:B6:34:ARG:O	53:B6:35:ARG:C	2.56	0.43
54:B7:39:LYS:HA	54:B7:42:ARG:CD	2.48	0.43
54:B7:39:LYS:N	54:B7:39:LYS:NZ	2.66	0.43
24:BA:1011:G:OP2	41:BT:75:ASN:OD1	2.35	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:110:G:O6	24:BA:111:A:N6	2.51	0.43
24:BA:116:C:H4'	24:BA:127:A:H4'	1.99	0.43
24:BA:1268:A:H2'	24:BA:1269:A:O4'	2.18	0.43
24:BA:1317:A:C6	24:BA:1318:C:C4	3.06	0.43
24:BA:1323:U:OP2	43:BV:84:ARG:NH1	2.51	0.43
24:BA:1344:G:C5	24:BA:1385:G:N7	2.86	0.43
24:BA:138:G:H21	24:BA:140:A:H62	1.64	0.43
24:BA:1471:A:C6	24:BA:1473:G:C8	3.06	0.43
24:BA:1532:C:P	24:BA:1532:C:H3'	2.57	0.43
24:BA:1535:U:C4	24:BA:1536:A:C6	3.06	0.43
24:BA:1608:A:C2	24:BA:1611:C:C6	3.06	0.43
24:BA:1655:A:O3'	28:BE:114:ALA:HA	2.18	0.43
24:BA:1775:U:C2'	24:BA:1776:G:O4'	2.60	0.43
24:BA:1890:A:C8	24:BA:1891:G:C8	3.06	0.43
24:BA:1942:C:C6	24:BA:1943:U:C5	3.06	0.43
24:BA:1949:G:N2	24:BA:1958:C:N3	2.66	0.43
24:BA:1983:C:O2'	24:BA:1984:G:C5'	2.58	0.43
24:BA:1667:G:O6	24:BA:1992:G:OP2	2.36	0.43
24:BA:2026:C:C2	24:BA:2027:G:C8	3.06	0.43
24:BA:2273:A:H2'	24:BA:2274:A:H5'	2.00	0.43
24:BA:2314:C:C2	24:BA:2315:G:C8	3.06	0.43
24:BA:411:G:C2	24:BA:2407:G:N7	2.86	0.43
24:BA:2417:C:O2'	24:BA:2418:A:H5'	2.18	0.43
24:BA:2444:G:C2	24:BA:2445:G:C5	3.05	0.43
24:BA:2583:G:C4	24:BA:2584:U:N3	2.83	0.43
24:BA:2602:A:O2'	24:BA:2603:G:P	2.75	0.43
24:BA:268:C:C2	24:BA:269:U:C5	3.06	0.43
24:BA:1754:C:C4	24:BA:2717:G:H5'	2.53	0.43
24:BA:2784:C:C4'	28:BE:41:LYS:CE	2.95	0.43
24:BA:2833:G:N3	24:BA:2833:G:C2'	2.79	0.43
24:BA:30:G:N7	24:BA:31:C:C5	2.86	0.43
24:BA:351:G:C2'	24:BA:352:G:OP2	2.66	0.43
24:BA:419:C:C4	24:BA:420:C:C4	3.06	0.43
24:BA:423:A:OP2	24:BA:423:A:H3'	2.17	0.43
24:BA:447:A:HO2'	24:BA:448:U:C5'	2.30	0.43
24:BA:454:A:C8	24:BA:454:A:C3'	3.01	0.43
24:BA:481:G:C2'	24:BA:507:A:N6	2.81	0.43
24:BA:507:A:H5'	24:BA:509:C:O4'	2.18	0.43
24:BA:535:C:C4'	41:BT:49:HIS:HB3	2.48	0.43
24:BA:566:U:C4'	42:BU:82:ARG:HH22	2.31	0.43
24:BA:567:A:N1	24:BA:568:U:C2	2.86	0.43
24:BA:682:G:H2'	24:BA:683:C:C6	2.53	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:701:G:H5'	24:BA:1632:A:H1'	2.00	0.43
24:BA:860:U:H5	24:BA:2267:A:C4'	2.31	0.43
24:BA:972:G:H3'	24:BA:973:A:C3'	2.48	0.43
25:BB:73:A:N7	25:BB:104:A:C4	2.86	0.43
25:BB:24:G:H21	25:BB:27:C:H42	1.63	0.43
25:BB:29:A:H2'	25:BB:30:C:O4'	2.18	0.43
25:BB:9:G:C2'	25:BB:9:G:N3	2.78	0.43
24:BA:2051:A:H1'	28:BE:141:ILE:CD1	2.48	0.43
28:BE:172:VAL:HA	28:BE:184:VAL:CG1	2.43	0.43
28:BE:194:GLY:O	28:BE:195:LEU:HD22	2.17	0.43
28:BE:49:LEU:HD21	28:BE:75:VAL:N	2.32	0.43
24:BA:1255:U:O4	29:BF:72:ARG:O	2.36	0.43
30:BG:32:PRO:HB2	30:BG:163:ALA:CB	2.48	0.43
30:BG:50:ALA:O	30:BG:54:GLU:CD	2.56	0.43
30:BG:8:LYS:HZ1	30:BG:103:LEU:CG	2.30	0.43
31:BH:26:VAL:C	31:BH:79:VAL:HG11	2.39	0.43
31:BH:52:VAL:HG22	31:BH:65:HIS:ND1	2.32	0.43
31:BH:8:PRO:HB3	31:BH:51:ARG:NH1	2.17	0.43
33:BL:104:VAL:HG13	33:BL:127:ILE:CD1	2.47	0.43
33:BL:106:GLU:HA	33:BL:109:LYS:CE	2.46	0.43
33:BL:88:ALA:O	33:BL:90:LYS:N	2.40	0.43
24:BA:1007:C:H4'	34:BM:108:PRO:CG	2.47	0.43
34:BM:46:VAL:HG11	34:BM:119:ARG:HH22	1.81	0.43
34:BM:54:VAL:HG12	34:BM:122:VAL:HG11	1.97	0.43
34:BM:74:ARG:CD	34:BM:82:LEU:CD1	2.96	0.43
35:BN:16:ALA:HB1	35:BN:45:GLU:HB2	1.98	0.43
35:BN:88:ASN:C	35:BN:90:GLN:N	2.71	0.43
36:BO:106:LEU:O	36:BO:107:LYS:HB3	2.18	0.43
37:BP:35:VAL:O	37:BP:35:VAL:CG1	2.66	0.43
38:BQ:105:ARG:CG	38:BQ:106:GLY:H	2.27	0.43
38:BQ:37:THR:O	38:BQ:38:VAL:C	2.55	0.43
38:BQ:49:ASP:OD2	38:BQ:50:HIS:N	2.51	0.43
39:BR:103:GLU:CD	39:BR:103:GLU:H	2.21	0.43
39:BR:58:LEU:C	39:BR:60:GLY:H	2.20	0.43
40:BS:103:ARG:HE	40:BS:103:ARG:HB2	1.21	0.43
40:BS:54:ARG:CD	40:BS:55:ASN:ND2	2.73	0.43
41:BT:40:PHE:H	41:BT:40:PHE:HD1	1.66	0.43
24:BA:535:C:O2'	41:BT:53:ARG:HD2	2.18	0.43
41:BT:83:LEU:HB3	41:BT:90:VAL:HG13	2.00	0.43
42:BU:22:VAL:HG11	42:BU:24:LYS:NZ	2.33	0.43
42:BU:5:VAL:CG2	42:BU:39:LEU:HA	2.42	0.43
42:BU:65:GLY:O	42:BU:66:ARG:CG	2.47	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:520:G:P	43:BV:25:ARG:HH12	2.41	0.43
43:BV:21:VAL:HG22	43:BV:75:TYR:CE2	2.53	0.43
44:BW:36:LYS:HZ2	44:BW:36:LYS:HB2	1.83	0.43
44:BW:70:LEU:HD23	44:BW:71:GLY:CA	2.48	0.43
44:BW:8:ILE:C	44:BW:9:LEU:CG	2.76	0.43
45:BX:12:THR:CA	45:BX:73:ARG:CZ	2.95	0.43
46:BY:118:GLN:NE2	46:BY:172:ALA:HB1	2.33	0.43
47:BZ:20:ARG:HB3	47:BZ:21:LEU:H	1.62	0.43
32:BK:93:THR:C	32:BK:95:LYS:N	2.71	0.43
26:BC:89:ALA:CB	26:BC:150:GLY:O	2.66	0.43
26:BC:7:TYR:O	26:BC:10:LEU:N	2.51	0.43
3:AD:41:C:C4	3:AD:42:C:C5	3.06	0.43
1:AA:1029:G:O4'	1:AA:1032(A):G:N2	2.51	0.43
43:BV:2:GLU:OE2	43:BV:2:GLU:HA	2.18	0.43
1:AA:1129:C:H4'	1:AA:1130:A:C8	2.52	0.43
1:AA:1194:U:O5'	1:AA:1194:U:H6	2.01	0.43
1:AA:1203:C:H6	1:AA:1203:C:O5'	2.01	0.43
1:AA:1251:A:N1	1:AA:1285:A:H2	2.16	0.43
1:AA:1126:U:OP2	1:AA:1281:U:C2	2.70	0.43
1:AA:130:A:C6	19:AT:64:PRO:HG2	2.52	0.43
1:AA:1300:G:C6	1:AA:1335:C:C5	3.05	0.43
1:AA:1349:A:H2'	1:AA:1350:A:O4'	2.17	0.43
1:AA:1361:G:C8	1:AA:1362:C:C5	3.06	0.43
1:AA:1430:C:O2'	1:AA:1431:C:H5'	2.17	0.43
1:AA:1454:G:C5	1:AA:1455:G:N7	2.86	0.43
1:AA:1465:C:C4	1:AA:1466:C:C5	3.05	0.43
1:AA:927:G:C4'	1:AA:1503:A:N7	2.80	0.43
1:AA:186(A):C:H4'	22:AW:85:MET:HG3	2.00	0.43
1:AA:251:G:N3	1:AA:266:G:O6	2.51	0.43
1:AA:294:U:C2	1:AA:295:C:H5	2.34	0.43
1:AA:301:G:C2	1:AA:302:G:C4	3.05	0.43
1:AA:429:U:C1'	1:AA:430:A:H5''	2.48	0.43
1:AA:528:C:O2'	1:AA:535:A:C8	2.69	0.43
1:AA:579:G:N3	1:AA:580:U:C6	2.86	0.43
1:AA:604:G:C6	1:AA:635:G:C6	3.06	0.43
1:AA:604:G:N2	1:AA:605:U:H1'	2.33	0.43
1:AA:658:G:C6	1:AA:659:U:C4	3.07	0.43
1:AA:685:G:H8	1:AA:685:G:O5'	2.01	0.43
1:AA:721:G:H1'	1:AA:722:A:C6	2.53	0.43
1:AA:723:U:O5'	1:AA:723:U:N1	2.51	0.43
1:AA:770:C:O2'	1:AA:771:G:H5'	2.18	0.43
1:AA:78:G:N1	1:AA:79:G:C5	2.86	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:838:G:C2	1:AA:849:C:C2	3.06	0.43
1:AA:878:G:O4'	10:AK:3:THR:CG2	2.66	0.43
3:AD:36:A:H3'	3:AD:37:A:H8	1.83	0.43
3:AD:75:C:H5''	3:AD:76:A:O4'	2.18	0.43
4:AE:118:LEU:O	4:AE:119:GLU:C	2.57	0.43
4:AE:118:LEU:HD22	4:AE:119:GLU:N	2.34	0.43
4:AE:16:HIS:CE1	4:AE:213:LEU:CD1	2.97	0.43
5:AF:6:HIS:CD2	5:AF:9:GLY:H	2.36	0.43
5:AF:89:GLU:O	5:AF:90:GLU:C	2.56	0.43
5:AF:91:LEU:O	5:AF:92:ALA:C	2.56	0.43
6:AG:199:ASN:OD1	6:AG:200:GLU:N	2.37	0.43
6:AG:61:LYS:HA	6:AG:203:VAL:HG13	2.00	0.43
6:AG:30:LYS:HA	6:AG:34:GLU:HB3	1.98	0.43
6:AG:63:LYS:HA	6:AG:66:ARG:CD	2.44	0.43
7:AH:11:ILE:CG2	7:AH:31:LEU:HD22	2.48	0.43
8:AI:26:ILE:HG22	8:AI:30:LEU:CD1	2.42	0.43
8:AI:9:VAL:HG22	8:AI:60:PHE:CD2	2.53	0.43
9:AJ:115:ARG:CG	9:AJ:118:VAL:HG21	2.48	0.43
9:AJ:46:ALA:HA	9:AJ:49:ILE:CD1	2.22	0.43
9:AJ:65:ALA:O	9:AJ:69:VAL:CG2	2.63	0.43
10:AK:62:TYR:C	10:AK:63:LEU:O	2.56	0.43
11:AL:116:LYS:O	11:AL:118:LYS:N	2.51	0.43
11:AL:23:ASN:O	11:AL:59:PHE:O	2.36	0.43
13:AN:88:GLY:O	13:AN:90:GLY:N	2.50	0.43
14:AO:110:VAL:HB	14:AO:113:ARG:CG	2.48	0.43
18:AS:42:ARG:O	18:AS:43:LYS:CB	2.66	0.43
19:AT:35:VAL:CG1	19:AT:36:ILE:H	2.30	0.43
20:AU:77:GLY:C	20:AU:78:LEU:HG	2.37	0.43
21:AV:28:LYS:O	21:AV:29:ARG:HB2	2.18	0.43
22:AW:54:LYS:HA	22:AW:57:ARG:CD	2.49	0.43
22:AW:64:ASP:OD1	22:AW:81:LYS:HE3	2.17	0.43
22:AW:84:LEU:HD13	22:AW:84:LEU:C	2.39	0.43
1:AA:186(B):C:H4'	22:AW:89:ARG:NH2	2.33	0.43
23:AX:13:ILE:HG23	23:AX:14:TRP:N	2.32	0.43
43:BV:23:LEU:CD1	51:B4:26:THR:O	2.45	0.43
54:B7:1:MET:H2	54:B7:2:PRO:HD2	1.81	0.43
55:B8:10:ILE:CD1	55:B8:34:GLN:NE2	2.74	0.43
55:B8:8:LYS:O	55:B8:9:ARG:O	2.35	0.43
24:BA:1134:G:C4	24:BA:1136:G:OP2	2.72	0.43
24:BA:1022:G:N7	24:BA:1139:G:O6	2.51	0.43
24:BA:1212:G:H1'	24:BA:1237:A:N6	2.33	0.43
24:BA:1242:A:N3	24:BA:1242:A:H2'	2.32	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1343:G:H3'	24:BA:1344:G:H5''	2.01	0.43
24:BA:1366:A:H2'	24:BA:1366:A:N3	2.32	0.43
24:BA:137(A):G:O2'	24:BA:138:G:C8	2.68	0.43
24:BA:1451:C:O2	24:BA:1451:C:C2'	2.64	0.43
24:BA:1472:A:H2'	24:BA:1473:G:O5'	2.17	0.43
24:BA:120:U:H1'	24:BA:149:A:C1'	2.47	0.43
24:BA:1535:U:H3'	24:BA:1536:A:H8	1.82	0.43
24:BA:1537:C:OP2	24:BA:1538:G:OP2	2.36	0.43
24:BA:1606:G:H4'	24:BA:1608:A:C2	2.52	0.43
24:BA:1821:A:N6	24:BA:1822:G:C6	2.85	0.43
24:BA:1836:C:N4	24:BA:1837:C:N4	2.65	0.43
24:BA:1944:U:O2'	24:BA:1955:U:H1'	2.18	0.43
24:BA:2004:G:N7	24:BA:2005:A:C5	2.86	0.43
24:BA:2029:G:N1	24:BA:2033:A:OP2	2.44	0.43
24:BA:2093:G:H1'	32:BK:29:TYR:HD2	1.81	0.43
24:BA:379:G:O2'	24:BA:2232:U:OP1	2.36	0.43
24:BA:2427:C:C2'	24:BA:2428:G:OP2	2.66	0.43
3:AB:52:G:O3'	24:BA:2471:C:OP1	2.36	0.43
24:BA:2611:U:C5'	24:BA:2611:U:H6	2.26	0.43
24:BA:2651:C:H2'	24:BA:2652:C:C6	2.52	0.43
24:BA:2660:A:H2'	24:BA:2661:G:O4'	2.18	0.43
24:BA:2739:U:O2'	24:BA:2740:A:H5'	2.18	0.43
24:BA:2748:A:C4	24:BA:2757:A:N6	2.86	0.43
24:BA:2818:G:C2	24:BA:2819:G:C8	3.06	0.43
24:BA:2857:G:C2	24:BA:2861:G:C2	3.07	0.43
24:BA:285:C:N3	24:BA:357:A:N1	2.66	0.43
24:BA:2880:C:N3	24:BA:2881:C:C5	2.86	0.43
24:BA:332:A:O2'	24:BA:333:G:P	2.76	0.43
24:BA:387:U:O2'	24:BA:388:G:N7	2.48	0.43
24:BA:498:G:P	24:BA:498:G:H8	2.41	0.43
24:BA:531:C:O4'	24:BA:532:A:C2	2.72	0.43
24:BA:617:G:C8	24:BA:617:G:C3'	3.01	0.43
24:BA:630:G:N2	24:BA:634:C:C4	2.86	0.43
24:BA:602:G:N2	24:BA:655:A:C3'	2.80	0.43
24:BA:705:A:C6	24:BA:727:A:H1'	2.54	0.43
24:BA:743:G:H2'	24:BA:744:G:C8	2.52	0.43
24:BA:774:A:H5''	24:BA:778:G:H4'	2.00	0.43
24:BA:813:U:C2	24:BA:814:C:C6	3.07	0.43
24:BA:815:C:H2'	24:BA:816:C:C6	2.54	0.43
24:BA:865:C:O2'	24:BA:866:A:C8	2.62	0.43
24:BA:908:C:H2'	24:BA:909:A:C5'	2.48	0.43
24:BA:954:G:H1'	24:BA:2274:A:H2	1.83	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:99:A:N3	25:BB:100:G:C8	2.87	0.43
27:BD:142:VAL:CG1	27:BD:193:VAL:HA	2.21	0.43
24:BA:1971:A:C2	27:BD:240:ALA:N	2.85	0.43
27:BD:6:PHE:N	27:BD:28:GLU:OE1	2.51	0.43
28:BE:136:ARG:CD	28:BE:136:ARG:C	2.87	0.43
28:BE:185:LYS:O	28:BE:185:LYS:CD	2.65	0.43
28:BE:6:GLY:O	28:BE:26:ILE:CG2	2.66	0.43
24:BA:2786:U:O2'	28:BE:64:LYS:HB2	2.18	0.43
28:BE:6:GLY:O	28:BE:26:ILE:HG22	2.17	0.43
29:BF:169:ASN:ND2	29:BF:171:PRO:HG2	2.33	0.43
30:BG:118:ARG:NH1	30:BG:118:ARG:CB	2.78	0.43
30:BG:29:TRP:HB2	30:BG:31:VAL:CG2	2.48	0.43
30:BG:59:GLU:HB3	30:BG:152:LEU:CD1	2.48	0.43
30:BG:59:GLU:O	30:BG:60:LEU:C	2.56	0.43
30:BG:64:THR:HB	30:BG:102:PHE:CE1	2.53	0.43
31:BH:118:PRO:CG	31:BH:121:ILE:HG21	2.48	0.43
31:BH:25:LYS:NZ	31:BH:27:LYS:NZ	2.67	0.43
33:BL:129:GLY:CA	33:BL:132:ARG:NH2	2.81	0.43
33:BL:19:PRO:O	33:BL:20:ALA:C	2.56	0.43
34:BM:126:PRO:C	34:BM:127:ASP:OD2	2.57	0.43
34:BM:19:GLU:HG2	34:BM:20:GLY:N	2.33	0.43
34:BM:70:LYS:N	34:BM:70:LYS:HD3	2.33	0.43
34:BM:88:GLU:N	34:BM:88:GLU:OE2	2.43	0.43
35:BN:105:GLU:O	35:BN:106:LEU:C	2.56	0.43
35:BN:14:THR:O	35:BN:52:VAL:HG11	2.17	0.43
35:BN:31:LYS:C	35:BN:32:TYR:CD2	2.92	0.43
35:BN:40:VAL:HA	35:BN:58:VAL:HG12	2.00	0.43
35:BN:59:LYS:CG	35:BN:84:ALA:O	2.66	0.43
36:BO:114:ILE:CB	36:BO:130:PHE:HA	2.48	0.43
36:BO:78:PRO:HA	36:BO:81:GLN:NE2	2.33	0.43
36:BO:86:LYS:HZ1	36:BO:99:LEU:CD1	2.31	0.43
36:BO:96:THR:O	36:BO:99:LEU:CB	2.66	0.43
37:BP:85:LYS:HE2	37:BP:88:GLY:HA3	1.98	0.43
24:BA:1649:G:N3	38:BQ:107:ASP:HB3	2.33	0.43
38:BQ:13:HIS:HD1	38:BQ:14:SER:N	2.15	0.43
38:BQ:54:LEU:O	38:BQ:55:ALA:C	2.56	0.43
38:BQ:84:ALA:N	38:BQ:85:PRO:CD	2.81	0.43
39:BR:52:SER:OG	39:BR:69:VAL:CG1	2.66	0.43
39:BR:52:SER:OG	39:BR:69:VAL:HG11	2.18	0.43
39:BR:77:ALA:HA	39:BR:80:LEU:CB	2.48	0.43
40:BS:108:ARG:HH11	40:BS:108:ARG:N	2.10	0.43
41:BT:98:LEU:C	41:BT:100:VAL:N	2.70	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BT:61:TRP:CB	41:BT:65:ILE:HD11	2.48	0.43
42:BU:35:LEU:O	42:BU:61:VAL:HG22	2.18	0.43
43:BV:65:LEU:O	43:BV:66:GLU:C	2.56	0.43
24:BA:1340:U:C5	44:BW:57:LEU:CG	2.98	0.43
44:BW:71:GLY:C	44:BW:72:LYS:HG3	2.38	0.43
44:BW:85:PRO:HB2	44:BW:87:GLN:NE2	2.33	0.43
45:BX:105:ALA:C	45:BX:107:ASP:H	2.20	0.43
37:BP:137:TYR:HE2	46:BY:124:ILE:CD1	2.22	0.43
46:BY:60:GLU:OE2	46:BY:69:THR:HG22	2.18	0.43
25:BB:76:G:C1'	46:BY:75:ASN:ND2	2.81	0.43
24:BA:855:G:N2	47:BZ:27:GLU:HB3	2.31	0.43
47:BZ:38:VAL:O	47:BZ:59:LEU:CB	2.53	0.43
32:BK:111:PRO:O	32:BK:112:LYS:C	2.56	0.43
32:BK:145:VAL:CG1	32:BK:146:ALA:N	2.81	0.43
32:BK:75:LEU:HD12	32:BK:76:THR:O	2.18	0.43
3:AD:17:C:C5	3:AD:19:G:C8	3.06	0.43
26:BC:19:ILE:O	26:BC:223:ARG:O	2.36	0.43
26:BC:28:LEU:HA	26:BC:31:GLU:OE1	2.18	0.43
33:BL:14:ALA:HB2	33:BL:53:VAL:CG2	2.48	0.43
1:AA:1174:G:H8	1:AA:1174:G:H5'	1.84	0.43
2:A1:3:U:O2	2:A1:4:U:O4	2.36	0.43
19:AT:96:GLN:O	19:AT:96:GLN:OE1	2.36	0.43
2:A1:30:U:H2'	2:A1:31:U:C1'	2.44	0.43
2:A1:38:U:O2'	2:A1:39:U:C5'	2.65	0.43
1:AA:1064:G:O3'	1:AA:1065:U:O4'	2.35	0.43
1:AA:1081:G:H2'	1:AA:1082:G:H8	1.83	0.43
1:AA:1192:C:N4	1:AA:1193:G:C6	2.85	0.43
1:AA:1321:C:H2'	1:AA:1322:C:C5	2.53	0.43
1:AA:1337:G:H5''	1:AA:1338:G:OP1	2.18	0.43
1:AA:133:U:OP1	22:AW:74:LYS:NZ	2.50	0.43
1:AA:1363:A:N3	1:AA:1365:G:O6	2.51	0.43
1:AA:1401:G:C6	1:AA:1402:C:C2	3.07	0.43
1:AA:1436:U:C3'	1:AA:1437:C:H6	2.32	0.43
1:AA:1436:U:C6	1:AA:1436:U:O5'	2.66	0.43
1:AA:1499:A:C2'	1:AA:1500:A:H5'	2.48	0.43
1:AA:1399:C:C2	1:AA:1502:A:N6	2.86	0.43
1:AA:1510:U:C2'	1:AA:1511:G:H8	2.22	0.43
1:AA:1533:C:C5	1:AA:1534:A:N7	2.86	0.43
1:AA:257:G:C5	1:AA:258:G:C8	3.06	0.43
1:AA:320:C:O2'	1:AA:321:A:O4'	2.28	0.43
1:AA:332:G:N3	1:AA:333:G:C8	2.87	0.43
1:AA:427:U:N1	1:AA:428:G:N7	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:600:C:C2	1:AA:601:C:C6	3.06	0.43
1:AA:629:G:C4	1:AA:630:G:C8	3.06	0.43
1:AA:606:G:N2	1:AA:631:G:H2'	2.33	0.43
1:AA:64:G:C4'	1:AA:65:U:H5''	2.29	0.43
1:AA:761:G:C5	1:AA:762:C:C5	3.06	0.43
1:AA:826:C:H2'	1:AA:827:U:H6	1.82	0.43
1:AA:874:G:H2'	1:AA:875:C:C5'	2.47	0.43
1:AA:86:U:C2'	1:AA:87:A:H5'	2.47	0.43
1:AA:22:G:N9	1:AA:914:A:N6	2.66	0.43
1:AA:953:G:H4'	15:AP:124:PRO:O	2.18	0.43
3:AC:57:G:C4'	30:BG:82:LEU:CD2	2.96	0.43
3:AC:58:A:O2'	3:AC:59:U:O5'	2.36	0.43
3:AC:66:U:C3'	3:AC:67:C:H6	2.30	0.43
4:AE:74:LYS:NZ	4:AE:205:ASP:O	2.48	0.43
4:AE:222:ILE:HD13	4:AE:226:ARG:NH2	2.25	0.43
4:AE:77:ALA:O	4:AE:80:ILE:HG22	2.19	0.43
4:AE:84:GLU:HG2	4:AE:234:PRO:CG	2.47	0.43
4:AE:92:TYR:HE2	4:AE:151:GLY:C	2.22	0.43
5:AF:117:ALA:O	5:AF:121:ALA:HB2	2.19	0.43
6:AG:143:GLY:HA2	6:AG:185:PHE:CD1	2.54	0.43
6:AG:153:ARG:O	6:AG:154:ASN:CB	2.66	0.43
6:AG:155:LEU:O	6:AG:158:ILE:HB	2.18	0.43
6:AG:29:PRO:O	6:AG:30:LYS:HB2	2.18	0.43
7:AH:15:ARG:CG	7:AH:15:ARG:HH11	2.31	0.43
7:AH:25:ARG:HD3	7:AH:25:ARG:N	2.33	0.43
7:AH:91:LEU:CG	7:AH:92:LYS:N	2.82	0.43
8:AI:45:LEU:HD23	8:AI:59:TYR:HA	2.00	0.43
8:AI:8:ILE:HG23	8:AI:89:MET:H	1.82	0.43
11:AL:45:ALA:O	11:AL:78:LYS:CG	2.66	0.43
12:AM:79:ARG:HH11	12:AM:79:ARG:HA	1.84	0.43
13:AN:13:GLN:HA	13:AN:76:GLY:CA	2.48	0.43
13:AN:32:ILE:O	13:AN:39:PRO:CB	2.66	0.43
13:AN:50:TYR:HD1	13:AN:55:LYS:HA	1.83	0.43
13:AN:69:ALA:O	13:AN:72:ALA:CB	2.65	0.43
14:AO:100:ILE:O	14:AO:101:VAL:HG22	2.19	0.43
14:AO:59:ARG:HE	14:AO:65:GLU:HG2	1.84	0.43
12:AM:65:LEU:CD1	16:AQ:36:PHE:CZ	3.02	0.43
18:AS:53:VAL:CG2	18:AS:54:GLU:N	2.81	0.43
22:AW:13:LEU:HD13	22:AW:17:ARG:HH22	1.83	0.43
22:AW:20:LEU:O	22:AW:24:LEU:HG	2.17	0.43
49:B2:32:GLN:CD	49:B2:32:GLN:N	2.72	0.43
50:B3:59:PHE:O	50:B3:62:ARG:N	2.51	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:B3:65:ASP:CA	50:B3:68:ARG:CZ	2.95	0.43
51:B4:56:LYS:C	51:B4:57:VAL:HG13	2.38	0.43
53:B6:46:VAL:O	53:B6:47:ARG:C	2.56	0.43
55:B8:19:ARG:HD3	55:B8:22:ARG:CB	2.48	0.43
55:B8:7:VAL:CG1	55:B8:34:GLN:OE1	2.63	0.43
24:BA:1025:G:C8	24:BA:1134:G:O4'	2.72	0.43
24:BA:1031:G:H5'	24:BA:1032:A:OP2	2.18	0.43
24:BA:1129:A:C5	24:BA:2570:G:H1'	2.53	0.43
24:BA:1006:C:C2	24:BA:1137:G:N2	2.86	0.43
24:BA:1137:G:H2'	24:BA:1138:G:O5'	2.17	0.43
24:BA:126:A:OP1	53:B6:18:PHE:N	2.50	0.43
24:BA:1342:A:C5	24:BA:1601:G:O6	2.71	0.43
24:BA:1381:G:O6	24:BA:1382:G:N1	2.51	0.43
24:BA:138:G:H2'	24:BA:138:G:N3	2.33	0.43
24:BA:141:A:C2	24:BA:1596:A:C2'	3.01	0.43
24:BA:1444(A):A:OP2	24:BA:1444(A):A:C8	2.71	0.43
24:BA:146:G:C5	24:BA:147:U:C6	3.06	0.43
24:BA:1529:A:H8	24:BA:1530:G:C4	2.36	0.43
24:BA:1544:C:O2'	24:BA:1545:A:H4'	2.18	0.43
24:BA:1272:A:H3'	24:BA:1646:C:N4	2.33	0.43
24:BA:1661:G:C5	24:BA:1662:C:C5	3.05	0.43
24:BA:1663:C:H5''	24:BA:1664:A:OP1	2.19	0.43
24:BA:1728:G:N2	24:BA:1730:U:O2	2.51	0.43
24:BA:1830:C:C2	24:BA:1831:G:N7	2.87	0.43
24:BA:1988:C:H2'	24:BA:1989:G:C5'	2.48	0.43
24:BA:2033:A:H2'	24:BA:2034:U:O5'	2.18	0.43
24:BA:2264:C:C2'	24:BA:2265:U:O5'	2.67	0.43
24:BA:2307:G:O2'	24:BA:2311:A:N6	2.50	0.43
24:BA:2447:G:HO2'	24:BA:2448:A:P	2.36	0.43
24:BA:2464:C:H2'	24:BA:2465:C:H6	1.82	0.43
24:BA:2482:G:C4	24:BA:2483:C:C6	3.06	0.43
24:BA:2558:C:O2	24:BA:2558:C:C2'	2.66	0.43
24:BA:2507:C:H4'	24:BA:2573:C:N4	2.32	0.43
24:BA:262:A:O2'	24:BA:263:C:C5'	2.66	0.43
24:BA:2644:G:H1	24:BA:2645:G:H21	1.64	0.43
24:BA:2789:C:HO2'	24:BA:2790:A:P	2.41	0.43
24:BA:2816:C:C2'	24:BA:2817:G:H5'	2.48	0.43
24:BA:284:U:O4'	24:BA:284:U:OP2	2.37	0.43
24:BA:2898:U:N3	24:BA:2899:G:C5	2.87	0.43
24:BA:317:G:O2'	24:BA:318:C:H5'	2.18	0.43
24:BA:333:G:C6	24:BA:334:C:C5	3.06	0.43
24:BA:358:U:H2'	24:BA:358:U:O2	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:403:U:C2'	24:BA:403:U:O2	2.65	0.43
24:BA:49:A:N7	24:BA:177:G:C6	2.86	0.43
24:BA:596:G:N1	24:BA:597:U:C2	2.86	0.43
24:BA:638:G:C5	24:BA:639:U:C2	3.06	0.43
24:BA:67:U:C4'	24:BA:67:U:C6	3.01	0.43
24:BA:705:A:C2	24:BA:706:A:N9	2.85	0.43
24:BA:713:G:N2	24:BA:714:U:C6	2.86	0.43
24:BA:776:G:N9	24:BA:793:A:C2	2.86	0.43
24:BA:819:A:C2'	24:BA:820:A:H8	2.30	0.43
25:BB:100:G:C2'	25:BB:101:A:C8	2.88	0.43
27:BD:90:ALA:HB3	27:BD:159:ALA:HA	2.00	0.43
24:BA:1814:G:OP2	27:BD:43:ARG:HD2	2.18	0.43
24:BA:2512:C:C5'	28:BE:120:TRP:CH2	2.92	0.43
24:BA:1996:C:H2'	28:BE:123:ALA:HB3	1.97	0.43
28:BE:148:GLY:C	28:BE:149:ARG:HG3	2.37	0.43
28:BE:149:ARG:HB2	28:BE:150:VAL:H	1.48	0.43
28:BE:176:ILE:CG2	28:BE:181:LEU:CB	2.95	0.43
28:BE:13:ARG:CD	28:BE:20:ALA:O	2.65	0.43
28:BE:49:LEU:CB	28:BE:76:ARG:O	2.67	0.43
29:BF:39:TRP:CE2	29:BF:106:ARG:NH2	2.87	0.43
29:BF:11:VAL:HB	29:BF:17:ARG:NH1	2.33	0.43
29:BF:40:GLN:O	29:BF:41:LEU:C	2.55	0.43
30:BG:8:LYS:HG3	30:BG:100:TRP:O	2.17	0.43
30:BG:111:LEU:CD2	30:BG:178:PHE:HD2	2.31	0.43
30:BG:39:ILE:CG1	30:BG:157:ILE:CD1	2.93	0.43
30:BG:37:VAL:HG13	30:BG:158:ALA:O	2.17	0.43
30:BG:44:GLY:CA	30:BG:88:ILE:HG21	2.48	0.43
30:BG:98:ARG:O	30:BG:101:ILE:HG22	2.17	0.43
31:BH:25:LYS:CE	31:BH:27:LYS:HZ2	2.31	0.43
31:BH:99:VAL:O	31:BH:99:VAL:HG12	2.18	0.43
32:BK:21:VAL:C	32:BK:26:ALA:HB2	2.39	0.43
35:BN:23:ARG:HH12	35:BN:30:ALA:HB2	1.83	0.43
35:BN:40:VAL:HG13	35:BN:40:VAL:O	2.17	0.43
1:AA:1423:G:C5'	35:BN:49:ARG:HH21	2.29	0.43
35:BN:59:LYS:HA	35:BN:86:ILE:CG1	2.48	0.43
36:BO:46:LYS:HZ1	36:BO:50:ARG:NH1	2.14	0.43
36:BO:49:ARG:CD	54:B7:52:LYS:HE3	2.48	0.43
36:BO:55:ARG:NH2	36:BO:55:ARG:HA	2.33	0.43
37:BP:137:TYR:O	37:BP:138:ASP:OD2	2.33	0.43
38:BQ:83:ILE:O	38:BQ:86:ARG:HB2	2.17	0.43
39:BR:13:ARG:NH2	39:BR:92:TYR:N	2.66	0.43
39:BR:16:ASN:O	39:BR:17:ARG:C	2.57	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BS:21:GLU:HG3	40:BS:88:ILE:CD1	2.43	0.43
40:BS:37:GLY:HA3	40:BS:42:ILE:O	2.18	0.43
40:BS:54:ARG:HD3	40:BS:55:ASN:HD21	1.76	0.43
41:BT:33:ARG:O	41:BT:36:ARG:N	2.51	0.43
24:BA:535:C:O2'	41:BT:53:ARG:CG	2.66	0.43
41:BT:59:ARG:HA	41:BT:62:ILE:HB	2.00	0.43
41:BT:70:ARG:CB	41:BT:70:ARG:NH1	2.80	0.43
42:BU:23:GLU:O	42:BU:23:GLU:HG2	2.17	0.43
43:BV:49:LYS:O	43:BV:50:VAL:C	2.56	0.43
43:BV:46:PHE:O	43:BV:50:VAL:HG23	2.17	0.43
44:BW:12:VAL:N	44:BW:28:PHE:HA	2.32	0.43
45:BX:35:TYR:O	45:BX:64:GLU:CA	2.66	0.43
46:BY:103:ARG:O	46:BY:138:GLU:HB3	2.17	0.43
46:BY:122:ARG:CB	46:BY:171:ILE:HA	2.48	0.43
46:BY:179:ASP:O	46:BY:180:VAL:CG2	2.50	0.43
46:BY:18:LEU:CD2	46:BY:23:LYS:HD3	2.47	0.43
46:BY:69:THR:HB	46:BY:90:VAL:HG13	1.99	0.43
47:BZ:31:VAL:CG1	47:BZ:67:VAL:CG2	2.94	0.43
47:BZ:77:ARG:C	47:BZ:78:TYR:CD1	2.91	0.43
26:BC:45:ALA:HB2	26:BC:212:VAL:HA	2.00	0.43
1:AA:1166:G:N2	1:AA:1169:A:O5'	2.51	0.43
3:AD:40:C:H5'	3:AD:41:C:OP2	2.18	0.43
24:BA:2180:U:H2'	24:BA:2181:G:C8	2.52	0.43
24:BA:1040:C:OP2	24:BA:1040:C:C5	2.71	0.43
1:AA:998(A):C:O2	1:AA:998(A):C:C2'	2.65	0.43
2:A1:39:U:C6	2:A1:39:U:H3'	2.53	0.43
1:AA:1003:G:H21	1:AA:1005:A:H5'	1.82	0.43
1:AA:1108:G:C6	1:AA:1109:C:N4	2.86	0.43
1:AA:110:C:H2'	1:AA:111:G:C8	2.53	0.43
1:AA:1157:A:N6	1:AA:1180:A:C5	2.86	0.43
1:AA:1287:A:H1'	1:AA:1353:G:O2'	2.18	0.43
1:AA:1293:G:O2'	1:AA:1294:G:H5'	2.18	0.43
1:AA:1268:A:H2	1:AA:1327:C:H1'	1.83	0.43
1:AA:1441:G:N2	1:AA:1459:C:H5	2.16	0.43
1:AA:1484:C:H2'	1:AA:1485:U:H5'	1.99	0.43
1:AA:1499:A:N6	1:AA:1500:A:N6	2.66	0.43
1:AA:15:G:H2'	1:AA:16:A:C8	2.53	0.43
1:AA:181:G:H22	1:AA:223:U:H4'	1.83	0.43
1:AA:36:C:OP1	14:AO:123:LYS:HG2	2.18	0.43
1:AA:377:G:P	18:AS:5:ARG:HD3	2.58	0.43
1:AA:450:G:C8	1:AA:481:G:C6	3.06	0.43
1:AA:525:C:O5'	1:AA:525:C:H6	2.02	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:531:U:P	1:AA:531:U:H3'	2.59	0.43
1:AA:609:A:H2'	1:AA:610:G:H8	1.84	0.43
1:AA:648:A:O2'	1:AA:649:G:H5'	2.19	0.43
1:AA:667:G:C5'	17:AR:51:HIS:CE1	3.02	0.43
1:AA:830:G:C2	1:AA:857:C:C2	3.07	0.43
1:AA:892:A:H2'	1:AA:893:C:C6	2.53	0.43
1:AA:951:G:C5	1:AA:1231:G:C6	3.07	0.43
3:AC:28:G:C2	3:AC:43:C:O2	2.71	0.43
3:AC:58:A:H2'	3:AC:61:C:C4	2.53	0.43
3:AC:50:U:C4	3:AC:65:G:N1	2.86	0.43
3:AD:32:U:O2'	9:AJ:77:SER:CB	2.65	0.43
4:AE:84:GLU:CD	4:AE:233:SER:HB3	2.38	0.43
5:AF:27:LYS:HB2	5:AF:27:LYS:HE3	1.79	0.43
6:AG:134:ASP:OD2	6:AG:134:ASP:O	2.36	0.43
7:AH:36:ASP:OD2	7:AH:40:ARG:HB3	2.18	0.43
7:AH:76:ILE:CG2	7:AH:77:PRO:HD2	2.49	0.43
8:AI:34:GLY:C	8:AI:68:PRO:HD3	2.38	0.43
8:AI:34:GLY:O	8:AI:68:PRO:HD3	2.19	0.43
9:AJ:69:VAL:HG11	9:AJ:104:LEU:HD21	1.94	0.43
10:AK:104:ARG:HB2	10:AK:108:GLY:H	1.83	0.43
10:AK:104:ARG:HD3	10:AK:107:LEU:HD11	2.01	0.43
10:AK:134:ILE:HB	10:AK:135:CYS:H	1.47	0.43
1:AA:755:G:H21	10:AK:1:MET:HE1	1.83	0.43
5:AF:23:TYR:CD1	12:AM:11:PHE:HB2	2.54	0.43
15:AP:15:VAL:HG11	15:AP:39:ILE:HD11	1.98	0.43
16:AQ:46:GLU:O	16:AQ:49:HIS:CB	2.64	0.43
18:AS:40:ASP:OD1	18:AS:40:ASP:O	2.36	0.43
20:AU:31:LEU:CD2	20:AU:65:ILE:HG13	2.48	0.43
21:AV:16:LEU:O	21:AV:17:GLU:C	2.55	0.43
21:AV:17:GLU:OE1	21:AV:18:LYS:N	2.51	0.43
22:AW:57:ARG:HH21	22:AW:100:ILE:CD1	2.30	0.43
22:AW:53:LEU:HD12	22:AW:100:ILE:HG13	2.00	0.43
50:B3:23:GLU:HB2	50:B3:24:THR:H	1.51	0.43
50:B3:69:LYS:O	50:B3:70:GLY:C	2.56	0.43
51:B4:11:THR:CG2	51:B4:15:ARG:HB3	2.42	0.43
52:B5:19:ARG:HH22	52:B5:41:PRO:CD	2.32	0.43
52:B5:17:LYS:HZ3	52:B5:50:ARG:CA	2.31	0.43
36:BO:56:SER:OG	54:B7:27:THR:HG21	2.18	0.43
54:B7:33:ASN:O	54:B7:34:TRP:CB	2.66	0.43
24:BA:1093:G:N2	24:BA:1098:A:N6	2.66	0.43
24:BA:1178:C:C2	24:BA:1179:C:C4	3.05	0.43
24:BA:1344:G:H4'	24:BA:1384:A:C2	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1348:G:O6	24:BA:1599:C:C4	2.72	0.43
24:BA:1449:A:C4	24:BA:1529:A:C2	3.06	0.43
24:BA:1662:C:C2	24:BA:1663:C:C5	3.07	0.43
24:BA:1669:A:O3'	24:BA:2549:G:H5'	2.17	0.43
24:BA:1678:G:O2'	24:BA:1679:U:H5'	2.18	0.43
24:BA:1731:G:O2'	24:BA:1732:A:C5'	2.66	0.43
24:BA:179:G:C5	24:BA:180:G:C5	3.06	0.43
24:BA:1826:G:N2	24:BA:1970:A:H2	2.15	0.43
24:BA:1909:C:N3	24:BA:1922:G:C2	2.87	0.43
24:BA:1954:G:N3	24:BA:2551:C:C5'	2.79	0.43
24:BA:1827:C:C5'	24:BA:1971:A:H4'	2.48	0.43
24:BA:2015:A:C8	24:BA:2016:U:C5	3.07	0.43
24:BA:204:A:H4'	24:BA:205:G:O5'	2.18	0.43
24:BA:2216:G:C2'	24:BA:2217:G:H5'	2.49	0.43
24:BA:2284:C:H5''	52:B5:9:LEU:HG	1.99	0.43
24:BA:2358:G:C2'	24:BA:2358:G:N3	2.81	0.43
24:BA:2360:A:OP2	24:BA:2360:A:H8	1.99	0.43
24:BA:2514:U:C4	24:BA:2515:C:N4	2.82	0.43
24:BA:2589:A:N3	24:BA:2590:A:C8	2.86	0.43
24:BA:2616:C:C2	24:BA:2617:C:C5	3.06	0.43
24:BA:2675:A:H2'	24:BA:2676:C:H6	1.83	0.43
24:BA:2719:G:OP1	40:BS:101:PHE:CE1	2.71	0.43
24:BA:2842:G:N2	24:BA:2843:G:H1'	2.34	0.43
24:BA:28:A:N3	24:BA:29:U:H4'	2.34	0.43
24:BA:393:C:C2	24:BA:394:A:C8	3.06	0.43
24:BA:479:A:O2'	24:BA:480:A:H5'	2.17	0.43
24:BA:503:A:O2'	24:BA:506:G:OP2	2.37	0.43
24:BA:622:G:O2'	24:BA:623:G:H5'	2.18	0.43
24:BA:641:C:C2'	24:BA:642:G:C5'	2.89	0.43
24:BA:662:G:OP1	36:BO:19:VAL:HG11	2.17	0.43
24:BA:73:A:H2'	24:BA:74:A:OP2	2.19	0.43
24:BA:823:G:C4	24:BA:835:A:C2	3.06	0.43
24:BA:882:G:H2'	24:BA:883:G:H8	1.83	0.43
24:BA:998:C:O5'	24:BA:998:C:H6	2.00	0.43
25:BB:73:A:C2	25:BB:74:U:N1	2.87	0.43
27:BD:142:VAL:CB	27:BD:192:THR:O	2.66	0.43
27:BD:172:TYR:HA	27:BD:186:HIS:HA	2.00	0.43
27:BD:61:LEU:O	27:BD:62:TYR:CG	2.72	0.43
27:BD:80:ALA:HB1	27:BD:96:HIS:CE1	2.52	0.43
28:BE:179:GLU:HB2	28:BE:181:LEU:CG	2.48	0.43
29:BF:128:ALA:O	29:BF:129:PHE:HB2	2.18	0.43
29:BF:138:GLU:H	29:BF:138:GLU:HG2	1.43	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:182:ASN:ND2	29:BF:185:ASP:CG	2.67	0.43
29:BF:185:ASP:HA	29:BF:188:ARG:HG2	1.99	0.43
29:BF:34:TRP:HB3	29:BF:38:ARG:NH1	2.31	0.43
29:BF:52:LYS:HZ2	29:BF:88:VAL:HG21	1.83	0.43
30:BG:104:GLU:O	30:BG:105:LYS:C	2.56	0.43
30:BG:55:LYS:CD	30:BG:147:ASP:O	2.54	0.43
30:BG:15:VAL:HG21	30:BG:176:LEU:HD23	1.99	0.43
30:BG:34:LEU:CD2	30:BG:172:LEU:HD11	2.48	0.43
31:BH:125:VAL:HG12	31:BH:125:VAL:O	2.18	0.43
31:BH:94:TYR:HH	31:BH:128:PRO:HG2	1.83	0.43
31:BH:23:ARG:HH21	31:BH:35:VAL:C	2.22	0.43
31:BH:7:LEU:CB	31:BH:65:HIS:NE2	2.80	0.43
31:BH:35:VAL:HG21	31:BH:75:ALA:HB2	2.00	0.43
33:BL:106:GLU:CA	33:BL:109:LYS:HE3	2.48	0.43
33:BL:27:LEU:CD1	33:BL:57:ILE:CD1	2.87	0.43
35:BN:101:PRO:CD	35:BN:119:PRO:O	2.63	0.43
35:BN:22:ILE:HB	35:BN:23:ARG:H	1.62	0.43
24:BA:2674:G:H4'	35:BN:26:LYS:NZ	2.33	0.43
35:BN:64:ARG:HH11	35:BN:67:LYS:HE2	1.83	0.43
36:BO:35:HIS:O	36:BO:36:LYS:CD	2.65	0.43
37:BP:102:VAL:HG13	37:BP:104:PHE:CZ	2.54	0.43
37:BP:36:ALA:CA	37:BP:129:THR:HG22	2.48	0.43
37:BP:6:ARG:HG2	37:BP:70:PRO:CG	2.49	0.43
38:BQ:47:PHE:O	38:BQ:49:ASP:N	2.51	0.43
38:BQ:49:ASP:O	38:BQ:50:HIS:C	2.56	0.43
39:BR:26:LEU:HD12	39:BR:101:LEU:HD11	2.00	0.43
39:BR:43:GLU:O	39:BR:44:LYS:C	2.56	0.43
39:BR:57:LYS:HD3	39:BR:58:LEU:N	2.34	0.43
39:BR:26:LEU:H	39:BR:88:ASP:CB	2.31	0.43
40:BS:110:ILE:O	40:BS:111:ARG:C	2.57	0.43
40:BS:92:GLY:HA2	40:BS:93:ARG:NE	2.33	0.43
41:BT:47:TYR:O	41:BT:48:ALA:C	2.56	0.43
42:BU:28:GLU:N	42:BU:29:PRO:HD2	2.32	0.43
43:BV:5:ALA:CB	43:BV:105:VAL:HG13	2.49	0.43
24:BA:1312:U:O3'	44:BW:63:LYS:CD	2.67	0.43
46:BY:122:ARG:O	46:BY:124:ILE:N	2.51	0.43
46:BY:138:GLU:O	46:BY:139:VAL:CG2	2.66	0.43
46:BY:42:VAL:C	46:BY:46:LYS:NZ	2.71	0.43
46:BY:76:LEU:CD2	46:BY:83:PRO:HB3	2.47	0.43
47:BZ:44:ARG:CD	47:BZ:45:PHE:CE2	3.01	0.43
3:AD:15:G:O5'	3:AD:15:G:H8	2.01	0.43
24:BA:2129:C:O2'	24:BA:2130:U:O4'	2.25	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2133:G:O6	24:BA:2157:G:N9	2.51	0.43
24:BA:1887:C:O2'	24:BA:1888:G:H5'	2.19	0.43
24:BA:55:G:C2	24:BA:56:A:C8	3.06	0.43
24:BA:2106:G:H2'	24:BA:2107:C:H6	1.83	0.43
1:AA:513:C:H2'	1:AA:514:C:H6	1.83	0.43
2:A1:10:U:O5'	2:A1:10:U:H6	2.01	0.43
1:AA:1498:U:C2	2:A1:41:U:OP1	2.72	0.43
1:AA:102:G:C6	1:AA:103:C:C4	3.06	0.43
1:AA:102:G:C6	1:AA:103:C:C5	3.07	0.43
1:AA:1159:U:C5	1:AA:1181:G:N7	2.86	0.43
1:AA:1194:U:H5'	7:AH:22:GLY:O	2.19	0.43
1:AA:1312:G:C2'	1:AA:1313:U:H5'	2.48	0.43
1:AA:1369:C:OP2	11:AL:111:ARG:HA	2.18	0.43
1:AA:1375:A:C2	1:AA:1376:U:O2	2.71	0.43
1:AA:1412:C:C2	1:AA:1413:A:N7	2.87	0.43
1:AA:222:U:O2'	1:AA:223:U:H5'	2.18	0.43
1:AA:237:C:H5''	19:AT:25:ARG:NH2	2.31	0.43
1:AA:244:U:C6	1:AA:894:G:C2	3.07	0.43
1:AA:302:G:O6	1:AA:303:A:C6	2.72	0.43
1:AA:318:G:O2'	1:AA:1469:G:OP1	2.36	0.43
1:AA:113:G:H4'	1:AA:354:G:H5''	1.99	0.43
1:AA:401:C:OP2	6:AG:73:ARG:NH2	2.52	0.43
1:AA:450:G:N7	1:AA:481:G:C5	2.86	0.43
1:AA:486:U:C2	1:AA:487:A:C8	3.06	0.43
1:AA:498:A:H61	1:AA:547:A:C5'	2.31	0.43
1:AA:533:A:H3'	1:AA:534:U:C5'	2.47	0.43
1:AA:548:G:O2'	1:AA:549:C:H5'	2.18	0.43
1:AA:658:G:C2	1:AA:659:U:C2	3.07	0.43
1:AA:696:A:C4	1:AA:697:U:O4'	2.72	0.43
1:AA:887:G:O2'	1:AA:888:G:H5'	2.19	0.43
1:AA:924:C:H2'	1:AA:925:G:H8	1.83	0.43
3:AB:75:C:C2'	3:AB:75:C:O2	2.67	0.43
3:AC:57:G:C1'	30:BG:82:LEU:CD1	2.94	0.43
4:AE:16:HIS:O	4:AE:18:GLY:N	2.51	0.43
4:AE:193:ASP:O	4:AE:194:PRO:O	2.36	0.43
4:AE:80:ILE:HG22	4:AE:81:VAL:N	2.33	0.43
6:AG:101:LEU:O	6:AG:102:ASP:C	2.56	0.43
1:AA:407:G:O2'	6:AG:116:GLN:HG2	2.17	0.43
6:AG:112:VAL:N	6:AG:116:GLN:OE1	2.42	0.43
6:AG:13:ARG:NH1	6:AG:36:ARG:HD3	2.34	0.43
7:AH:37:ARG:NH1	7:AH:112:LEU:HA	2.33	0.43
8:AI:14:LEU:HD21	8:AI:18:GLN:HG2	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AI:91:VAL:HG12	8:AI:92:LYS:O	2.18	0.43
8:AI:94:GLN:C	8:AI:95:GLU:HG3	2.39	0.43
9:AJ:13:GLN:O	9:AJ:14:PRO:O	2.35	0.43
9:AJ:15:ASP:HB3	9:AJ:20:ASP:H	1.84	0.43
10:AK:19:VAL:HG12	10:AK:19:VAL:O	2.18	0.43
10:AK:70:GLN:CA	10:AK:70:GLN:NE2	2.76	0.43
11:AL:100:GLY:C	11:AL:101:PHE:CG	2.91	0.43
11:AL:10:ARG:NH2	11:AL:75:ASP:CG	2.72	0.43
13:AN:50:TYR:CD1	13:AN:55:LYS:HA	2.54	0.43
15:AP:14:ARG:CG	15:AP:44:ARG:NH1	2.77	0.43
15:AP:6:GLY:O	15:AP:8:GLU:N	2.52	0.43
17:AR:87:ILE:CG2	17:AR:88:ARG:N	2.81	0.43
18:AS:19:ILE:CG2	18:AS:36:ILE:O	2.67	0.43
21:AV:27:GLU:O	21:AV:28:LYS:HB2	2.17	0.43
21:AV:32:LYS:HB2	21:AV:57:HIS:CE1	2.54	0.43
21:AV:30:LEU:HB2	21:AV:48:THR:HG22	2.00	0.43
22:AW:11:SER:CA	22:AW:13:LEU:HD11	2.35	0.43
22:AW:45:GLN:HE21	22:AW:91:LEU:CD1	2.17	0.43
1:AA:186(B):C:H4'	22:AW:89:ARG:HH22	1.83	0.43
49:B2:31:LEU:HA	49:B2:31:LEU:HD22	1.71	0.43
24:BA:400:G:O6	50:B3:63:TYR:CE2	2.68	0.43
51:B4:36:CYS:H	51:B4:49:CYS:HB3	1.84	0.43
52:B5:16:CYS:O	52:B5:17:LYS:C	2.56	0.43
53:B6:10:ARG:O	53:B6:11:LYS:C	2.57	0.43
53:B6:12:ARG:O	53:B6:13:ALA:C	2.57	0.43
53:B6:21:ARG:CZ	53:B6:21:ARG:CB	2.97	0.43
24:BA:179:G:C5'	53:B6:32:LYS:NZ	2.69	0.43
53:B6:35:ARG:CB	53:B6:35:ARG:NH1	2.81	0.43
36:BO:45:LEU:CD1	54:B7:3:LYS:HZ1	2.31	0.43
54:B7:6:THR:CG2	54:B7:6:THR:O	2.63	0.43
55:B8:13:LYS:CB	55:B8:13:LYS:NZ	2.82	0.43
24:BA:1013:C:C2	24:BA:1014:U:C5	3.06	0.43
24:BA:1030:G:C5	24:BA:1125:G:N2	2.86	0.43
24:BA:1035:U:H2'	24:BA:1036:G:C8	2.54	0.43
24:BA:1059:G:H5'	33:BL:116:ASN:ND2	2.32	0.43
24:BA:1163:G:N3	24:BA:1164:G:C8	2.86	0.43
24:BA:1183:G:C3'	24:BA:1183:G:P	3.06	0.43
24:BA:819:A:OP2	24:BA:1187:G:N2	2.51	0.43
24:BA:1302:A:H3'	24:BA:1303:G:H5'	2.00	0.43
24:BA:1434:A:H61	24:BA:1558:A:N6	2.13	0.43
24:BA:1459:G:O6	24:BA:1461:G:C5	2.72	0.43
24:BA:1654:A:C6	24:BA:1655:A:N7	2.87	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1674:G:H21	24:BA:1676:A:H61	1.67	0.43
24:BA:1697:G:O6	24:BA:1698:A:C6	2.72	0.43
24:BA:1710:C:C2	24:BA:1711:C:C5	3.07	0.43
24:BA:1743:G:H2'	24:BA:1746:G:O4'	2.18	0.43
24:BA:176:G:C3'	24:BA:177:G:H8	2.30	0.43
24:BA:1817:G:H2'	24:BA:1818:U:C5'	2.49	0.43
24:BA:2030:A:HO2'	24:BA:2031:A:P	2.41	0.43
24:BA:805:G:C6	24:BA:2068:U:OP1	2.72	0.43
24:BA:2087:G:H5''	24:BA:2087:G:H8	1.83	0.43
24:BA:227:A:N6	24:BA:2407:G:H8	2.13	0.43
24:BA:2318:G:C8	24:BA:2318:G:P	3.10	0.43
24:BA:2358:G:C6	24:BA:2359:C:C5	3.07	0.43
24:BA:2358:G:C8	24:BA:2358:G:OP1	2.71	0.43
24:BA:2069:G:C2	24:BA:2443:C:C4	3.07	0.43
24:BA:2474:C:H6	24:BA:2474:C:O5'	2.01	0.43
24:BA:247:G:H22	54:B7:8:LYS:CG	2.31	0.43
24:BA:2485:G:H4'	37:BP:125:LEU:O	2.19	0.43
24:BA:2521:C:C2	24:BA:2522:U:H6	2.31	0.43
24:BA:2694:G:H8	24:BA:2694:G:O5'	2.01	0.43
24:BA:271:G:H2'	24:BA:272:G:H8	1.83	0.43
24:BA:2729:G:C6	24:BA:2730:C:C5	3.06	0.43
24:BA:2737:G:C2	24:BA:2738:A:N7	2.86	0.43
24:BA:2748:A:O2'	31:BH:66:GLY:CA	2.62	0.43
24:BA:2782:G:H2'	24:BA:2783:G:C8	2.53	0.43
24:BA:413:C:H42	24:BA:2410:G:H1	1.66	0.43
24:BA:410:G:C6	24:BA:418:G:C2	3.07	0.43
24:BA:427:U:O2'	24:BA:428:A:O4'	2.35	0.43
24:BA:447:A:C6	24:BA:473:G:H1'	2.54	0.43
24:BA:479:A:C2'	24:BA:480:A:OP2	2.66	0.43
24:BA:503:A:C2	24:BA:506:G:C2	3.06	0.43
24:BA:60:G:C8	24:BA:63:U:C5	3.06	0.43
24:BA:631:A:C8	24:BA:631:A:H3'	2.53	0.43
24:BA:687:C:H4'	53:B6:4:THR:HG22	2.01	0.43
24:BA:73:A:C2'	24:BA:74:A:OP2	2.67	0.43
24:BA:751:A:H62	24:BA:789:A:H62	1.66	0.43
24:BA:783:A:O3'	24:BA:2589:A:P	2.76	0.43
24:BA:842:G:C6	24:BA:843:G:C5	3.06	0.43
24:BA:866:A:C2	24:BA:867:C:C6	3.06	0.43
24:BA:869:G:C2'	24:BA:870:A:C5'	2.80	0.43
24:BA:872:A:O2'	37:BP:66:ILE:CD1	2.66	0.43
24:BA:985:C:C6	24:BA:985:C:O5'	2.72	0.43
25:BB:21:G:C6	25:BB:22:U:C2	3.07	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:44:G:H5''	25:BB:45:A:OP1	2.19	0.43
25:BB:74:U:C3'	25:BB:75:G:O4'	2.65	0.43
27:BD:126:GLN:NE2	27:BD:129:ASN:OD1	2.38	0.43
24:BA:1565:C:OP1	27:BD:24:ILE:HG23	2.18	0.43
24:BA:1569:A:H4'	27:BD:39:LYS:HE2	2.00	0.43
27:BD:63:ARG:CG	27:BD:65:ILE:HD11	2.48	0.43
27:BD:67:PHE:O	27:BD:153:ALA:HB2	2.18	0.43
27:BD:63:ARG:HB2	27:BD:87:ASN:OD1	2.19	0.43
28:BE:111:ARG:HB3	28:BE:112:GLY:H	1.37	0.43
28:BE:131:ALA:C	28:BE:133:LYS:H	2.22	0.43
28:BE:27:LEU:O	28:BE:28:ALA:C	2.56	0.43
28:BE:32:PRO:HG3	28:BE:88:GLY:CA	2.47	0.43
28:BE:66:HIS:ND1	28:BE:67:PHE:CA	2.81	0.43
28:BE:71:GLY:O	28:BE:72:VAL:CG1	2.67	0.43
24:BA:2635:C:H5''	28:BE:78:LEU:CD1	2.49	0.43
24:BA:451:C:OP1	29:BF:50:SER:OG	2.36	0.43
30:BG:125:PHE:CB	30:BG:131:TYR:O	2.60	0.43
30:BG:131:TYR:CE1	30:BG:133:LEU:O	2.65	0.43
30:BG:163:ALA:O	30:BG:169:ALA:HB2	2.19	0.43
30:BG:47:LYS:HB3	30:BG:72:ARG:HB3	2.00	0.43
31:BH:143:GLN:O	31:BH:146:ALA:N	2.51	0.43
31:BH:25:LYS:CE	31:BH:32:GLU:HB2	2.49	0.43
31:BH:33:LEU:HD23	31:BH:34:GLU:C	2.38	0.43
31:BH:89:ILE:O	31:BH:89:ILE:HG23	2.18	0.43
32:BK:6:LEU:N	32:BK:8:PRO:HD2	2.33	0.43
33:BL:20:ALA:HB3	33:BL:21:PRO:HD3	2.00	0.43
34:BM:7:LYS:HZ3	34:BM:10:GLU:HB3	1.83	0.43
34:BM:116:LEU:O	34:BM:117:PHE:C	2.56	0.43
34:BM:97:ARG:O	34:BM:100:GLU:CA	2.66	0.43
35:BN:27:GLY:O	35:BN:28:SER:C	2.57	0.43
35:BN:42:SER:CA	35:BN:55:GLY:O	2.66	0.43
35:BN:63:VAL:HB	35:BN:78:ARG:CD	2.48	0.43
35:BN:6:THR:CG2	35:BN:21:CYS:HB3	2.48	0.43
35:BN:78:ARG:H	35:BN:78:ARG:CD	2.31	0.43
36:BO:128:HIS:HA	36:BO:147:LEU:HD22	1.96	0.43
24:BA:2406:U:C4	36:BO:65:ARG:HB3	2.54	0.43
36:BO:81:GLN:CB	36:BO:86:LYS:HE3	2.48	0.43
37:BP:64:ILE:O	37:BP:65:PHE:CD2	2.71	0.43
37:BP:68:ILE:HD12	37:BP:68:ILE:HA	1.86	0.43
37:BP:79:LEU:O	37:BP:80:GLU:HB3	2.18	0.43
38:BQ:28:LEU:O	38:BQ:31:HIS:N	2.51	0.43
38:BQ:52:ILE:CD1	38:BQ:56:LYS:HG2	2.47	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BR:94:TYR:H	39:BR:94:TYR:HD1	1.66	0.43
40:BS:48:ILE:HG21	40:BS:50:ILE:HD11	1.99	0.43
40:BS:64:ARG:C	40:BS:65:LYS:O	2.56	0.43
35:BN:77:ILE:HG12	40:BS:75:ILE:HD12	1.99	0.43
40:BS:50:ILE:HD12	40:BS:76:PHE:HB3	2.00	0.43
40:BS:35:LYS:CG	40:BS:84:GLN:O	2.53	0.43
41:BT:70:ARG:O	41:BT:72:HIS:N	2.51	0.43
42:BU:6:LYS:HE3	42:BU:12:TYR:O	2.19	0.43
42:BU:83:ARG:C	42:BU:84:LYS:HG3	2.39	0.43
44:BW:26:TYR:C	44:BW:28:PHE:CZ	2.92	0.43
44:BW:68:ARG:HH11	44:BW:68:ARG:HB3	1.81	0.43
45:BX:96:ILE:HD12	45:BX:103:GLY:HA2	2.00	0.43
46:BY:118:GLN:HB3	46:BY:144:LEU:HD13	2.01	0.43
46:BY:23:LYS:HG3	46:BY:39:VAL:C	2.39	0.43
46:BY:48:PHE:CA	46:BY:54:HIS:HE1	2.32	0.43
3:AD:50:U:O2'	3:AD:51:U:H5'	2.17	0.43
24:BA:2114:A:C6	24:BA:2170:A:N6	2.86	0.43
24:BA:2126:A:C6	24:BA:2163:C:H4'	2.51	0.43
26:BC:103:ILE:CD1	26:BC:110:PHE:CZ	3.00	0.43
26:BC:163:PHE:O	26:BC:164:ARG:HB2	2.18	0.43
26:BC:19:ILE:CG2	26:BC:19:ILE:O	2.66	0.43
26:BC:210:ARG:CG	26:BC:210:ARG:HH11	2.31	0.43
1:AA:511:C:C2'	1:AA:512:U:C6	3.01	0.43
1:AA:1223:C:H6	1:AA:1223:C:H3'	1.84	0.43
1:AA:1149:C:H2'	1:AA:1280:A:H61	1.83	0.43
1:AA:1291:G:C6	1:AA:1292:U:C4	3.07	0.43
1:AA:1331:G:C2'	1:AA:1332:A:OP2	2.66	0.43
1:AA:1349:A:C2'	1:AA:1350:A:H8	2.27	0.43
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.33	0.43
1:AA:1410:G:C6	1:AA:1411:C:N4	2.86	0.43
1:AA:1465:C:H2'	1:AA:1466:C:C5'	2.48	0.43
1:AA:1472:U:C2'	1:AA:1473:A:H5'	2.47	0.43
1:AA:1494:G:O2'	1:AA:1495:U:H6	1.98	0.43
1:AA:196:A:O2'	1:AA:222:U:O4'	2.36	0.43
1:AA:375:U:H2'	1:AA:376:G:O5'	2.18	0.43
1:AA:411:A:N7	1:AA:429:U:C5	2.86	0.43
1:AA:518:C:C5	1:AA:530:G:C8	3.07	0.43
1:AA:529:G:N1	14:AO:49:ASN:CB	2.78	0.43
1:AA:555:C:O2	1:AA:555:C:H2'	2.18	0.43
1:AA:573:A:H2'	1:AA:574:A:N7	2.31	0.43
1:AA:594:G:N1	1:AA:646:U:N3	2.67	0.43
1:AA:598:U:C2	1:AA:599:C:C5	3.06	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:61:G:N7	1:AA:62:U:C4	2.87	0.43
1:AA:696:A:N1	1:AA:697:U:H1'	2.33	0.43
1:AA:707:C:C2'	1:AA:708:C:O5'	2.67	0.43
1:AA:833:U:H2'	1:AA:834:C:C6	2.52	0.43
1:AA:874:G:N2	1:AA:875:C:N1	2.66	0.43
1:AA:893:C:H2'	1:AA:894:G:H8	1.84	0.43
1:AA:885:G:N2	1:AA:913:A:C2	2.85	0.43
1:AA:918:A:H2'	1:AA:919:A:O4'	2.19	0.43
1:AA:950:U:H1'	1:AA:971:G:C4	2.53	0.43
1:AA:977:A:N6	1:AA:1224:G:O5'	2.51	0.43
3:AB:12:U:C6	3:AB:12:U:H3'	2.53	0.43
3:AC:10:G:H2'	3:AC:11:C:C6	2.53	0.43
4:AE:28:PHE:HE1	4:AE:31:TYR:C	2.22	0.43
5:AF:10:PHE:HB3	5:AF:11:ARG:NE	2.32	0.43
5:AF:55:VAL:HG22	5:AF:68:VAL:CG2	2.47	0.43
6:AG:133:VAL:HG21	6:AG:138:TYR:HE1	1.83	0.43
6:AG:179:GLU:C	6:AG:181:MET:N	2.72	0.43
6:AG:98:GLU:OE1	6:AG:107:ARG:HG3	2.18	0.43
7:AH:51:VAL:O	7:AH:52:PRO:C	2.55	0.43
8:AI:35:ALA:O	8:AI:36:ARG:CG	2.62	0.43
8:AI:90:VAL:O	8:AI:90:VAL:HG13	2.18	0.43
9:AJ:49:ILE:HG12	9:AJ:121:ALA:CB	2.47	0.43
9:AJ:139:GLU:CD	9:AJ:139:GLU:N	2.72	0.43
10:AK:100:ILE:N	10:AK:100:ILE:HD12	2.11	0.43
1:AA:1347:G:C8	11:AL:107:ARG:HB2	2.54	0.43
11:AL:23:ASN:HA	11:AL:57:GLY:O	2.18	0.43
12:AM:51:ARG:HB2	12:AM:59:SER:C	2.39	0.43
12:AM:69:ASN:O	12:AM:70:ARG:NH1	2.51	0.43
13:AN:25:TYR:OH	13:AN:87:THR:HB	2.18	0.43
9:AJ:153:HIS:CE1	13:AN:58:PRO:CD	2.98	0.43
14:AO:102:ARG:NH1	14:AO:110:VAL:HA	2.34	0.43
14:AO:64:TYR:C	14:AO:65:GLU:CG	2.87	0.43
14:AO:98:TYR:CD1	14:AO:98:TYR:N	2.86	0.43
1:AA:994:A:C4	16:AQ:5:ALA:HA	2.54	0.43
17:AR:12:ILE:HG12	17:AR:27:VAL:HG13	2.01	0.43
17:AR:77:ARG:CZ	17:AR:77:ARG:C	2.86	0.43
19:AT:60:ILE:CD1	19:AT:62:SER:HA	2.48	0.43
21:AV:30:LEU:HD23	21:AV:32:LYS:H	1.84	0.43
21:AV:41:VAL:CB	21:AV:42:PRO:CD	2.81	0.43
21:AV:63:THR:HG22	21:AV:64:GLU:N	2.33	0.43
1:AA:104:G:P	22:AW:21:LYS:HZ3	2.42	0.43
22:AW:25:ARG:O	22:AW:28:ALA:N	2.51	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AW:76:ALA:O	22:AW:77:ALA:C	2.56	0.43
24:BA:2432:A:N6	50:B3:32:TYR:CD2	2.87	0.43
50:B3:59:PHE:CA	50:B3:62:ARG:NH1	2.82	0.43
51:B4:44:THR:CA	51:B4:52:TYR:OH	2.67	0.43
54:B7:34:TRP:CA	54:B7:36:LYS:HB2	2.48	0.43
54:B7:27:THR:N	54:B7:44:LYS:NZ	2.65	0.43
24:BA:1053:C:C4	24:BA:1054:A:N6	2.87	0.43
24:BA:1086:A:N3	24:BA:1086:A:H2'	2.33	0.43
24:BA:112:U:C3'	24:BA:113:G:C5'	2.68	0.43
24:BA:1131:G:O6	24:BA:2025:C:H1'	2.18	0.43
24:BA:1024:G:C5	24:BA:1134:G:H1'	2.54	0.43
24:BA:1164:G:C4	24:BA:1165:U:C6	3.07	0.43
24:BA:1195:G:C2	24:BA:1196:C:C6	3.06	0.43
24:BA:120:U:C2'	24:BA:121:G:OP2	2.66	0.43
24:BA:1326:U:C2	24:BA:1327:C:O4'	2.71	0.43
24:BA:1341:U:H3	24:BA:1398:C:C5'	2.16	0.43
24:BA:1389:G:H2'	24:BA:1390:U:H6	1.83	0.43
24:BA:1419:A:H3'	24:BA:1420:U:N1	2.34	0.43
24:BA:1419:A:H3'	24:BA:1420:U:O4'	2.18	0.43
24:BA:1422:G:N2	24:BA:1423:G:C4	2.87	0.43
24:BA:1438:U:O2'	24:BA:1439:A:H5'	2.18	0.43
24:BA:1476:C:N4	24:BA:1477:A:N1	2.67	0.43
24:BA:1448:G:C4'	24:BA:1543:A:C6	2.90	0.43
24:BA:1791:A:P	27:BD:213:ARG:HD3	2.58	0.43
24:BA:1793:C:C4	24:BA:1794:U:O4	2.71	0.43
24:BA:1796:U:O2'	24:BA:1797:C:O5'	2.36	0.43
24:BA:1815:A:HO2'	24:BA:1816:G:H4'	1.84	0.43
24:BA:1843:C:O2'	24:BA:1844:C:H5'	2.18	0.43
24:BA:1892:C:C4	24:BA:1893:C:C5	3.07	0.43
24:BA:1899:G:N2	24:BA:1902:C:N4	2.61	0.43
24:BA:1907:G:O6	24:BA:1924:C:N4	2.52	0.43
24:BA:1953:A:N7	24:BA:2550:G:H1'	2.33	0.43
24:BA:1957:C:O2	24:BA:1958:C:C6	2.72	0.43
24:BA:1964:G:C6	24:BA:1967:C:C5	3.07	0.43
24:BA:1991:U:O5'	24:BA:1991:U:H6	2.01	0.43
24:BA:2028:U:H2'	24:BA:2029:G:N7	2.31	0.43
24:BA:2029:G:H2'	24:BA:2030:A:O3'	2.19	0.43
24:BA:2084:C:N3	24:BA:2085:C:C5	2.87	0.43
24:BA:213:A:N3	24:BA:213:A:H2'	2.33	0.43
24:BA:2286:A:C8	52:B5:31:PRO:HD2	2.53	0.43
24:BA:2289:G:C8	24:BA:2289:G:OP2	2.71	0.43
24:BA:2292:C:H2'	24:BA:2293:C:H6	1.84	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2491:U:O2	24:BA:2492:U:C4	2.70	0.43
24:BA:2526:G:C6	24:BA:2527:C:C5	3.05	0.43
24:BA:251:A:O2'	24:BA:252:G:OP1	2.36	0.43
24:BA:2532:G:H8	24:BA:2532:G:O5'	2.02	0.43
24:BA:2544:G:H2'	24:BA:2545:G:C4'	2.48	0.43
24:BA:2595:G:C2	24:BA:2599:G:C6	3.06	0.43
24:BA:2634:G:HO2'	24:BA:2635:C:C5'	2.31	0.43
24:BA:2642:G:C2	24:BA:2773:C:N3	2.86	0.43
24:BA:2642:G:N1	24:BA:2643:G:C5	2.86	0.43
24:BA:2742:C:O3'	55:B8:35:ARG:NH2	2.51	0.43
24:BA:2804:C:C4	24:BA:2805:G:N1	2.87	0.43
24:BA:281:G:O2'	24:BA:282:A:H5''	2.19	0.43
24:BA:2894:G:H2'	24:BA:2894:G:N3	2.34	0.43
24:BA:349:G:C2'	24:BA:350:U:H6	2.24	0.43
24:BA:351:G:O2'	24:BA:352:G:N7	2.35	0.43
24:BA:379:G:C6	24:BA:396:G:C6	3.07	0.43
24:BA:431:U:H2'	24:BA:431:U:O2	2.18	0.43
24:BA:32:C:H1'	24:BA:474:G:N2	2.33	0.43
24:BA:523:C:C4	24:BA:524:U:C5	3.06	0.43
24:BA:548:A:N6	24:BA:549:G:N3	2.66	0.43
24:BA:585:G:C6	24:BA:1251:C:C6	3.06	0.43
24:BA:586:A:H5'	29:BF:89:VAL:CB	2.47	0.43
24:BA:607:U:C2	24:BA:608:A:H8	2.34	0.43
24:BA:659:C:H4'	29:BF:102:PRO:CD	2.48	0.43
24:BA:71:A:H4'	24:BA:72:U:C5'	2.24	0.43
24:BA:761:A:H8	24:BA:761:A:O5'	2.01	0.43
24:BA:771:G:C6	24:BA:772:C:C4	3.06	0.43
24:BA:196:A:C2	24:BA:828:U:H5''	2.50	0.43
24:BA:837:C:C2'	24:BA:838:C:O5'	2.67	0.43
24:BA:844:C:OP2	24:BA:844:C:H6	2.01	0.43
24:BA:849:A:H3'	24:BA:850:C:C6	2.53	0.43
24:BA:909:A:C2	24:BA:912:C:N1	2.87	0.43
24:BA:838:C:N1	24:BA:941:A:N6	2.66	0.43
25:BB:9:G:N2	25:BB:10:C:C4	2.87	0.43
27:BD:155:LEU:CG	27:BD:155:LEU:O	2.66	0.43
27:BD:90:ALA:CB	27:BD:159:ALA:HA	2.49	0.43
27:BD:219:PRO:HG2	27:BD:220:HIS:H	1.83	0.43
24:BA:2086:U:OP2	27:BD:260:ARG:NH2	2.51	0.43
27:BD:55:GLY:CA	27:BD:217:ARG:NH2	2.81	0.43
27:BD:37:LEU:CD2	27:BD:64:ILE:H	2.27	0.43
28:BE:4:ILE:HD11	28:BE:76:ARG:NH1	2.33	0.43
28:BE:49:LEU:CD2	28:BE:76:ARG:O	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:BF:36:VAL:HG11	29:BF:183:VAL:HG21	2.00	0.43
29:BF:46:ARG:NE	29:BF:46:ARG:C	2.72	0.43
30:BG:134:GLY:HA3	30:BG:156:ASP:CB	2.49	0.43
30:BG:19:LEU:HA	30:BG:22:ARG:CB	2.47	0.43
31:BH:135:GLY:C	31:BH:136:ILE:HG22	2.39	0.43
31:BH:85:LYS:CD	31:BH:145:ALA:CB	2.93	0.43
31:BH:17:VAL:HG21	31:BH:45:VAL:CG1	2.31	0.43
31:BH:26:VAL:HB	31:BH:75:ALA:HB1	2.01	0.43
32:BK:21:VAL:CA	32:BK:26:ALA:HB2	2.49	0.43
33:BL:77:LEU:HD22	33:BL:77:LEU:HA	1.70	0.43
34:BM:34:LEU:CD2	34:BM:116:LEU:CD2	2.94	0.43
34:BM:4:TYR:HB3	41:BT:64:ARG:NH1	2.33	0.43
34:BM:89:LYS:HA	34:BM:92:ALA:HB2	1.98	0.43
35:BN:21:CYS:CB	35:BN:40:VAL:O	2.67	0.43
35:BN:36:GLY:N	35:BN:61:VAL:CG1	2.81	0.43
35:BN:87:ILE:O	35:BN:88:ASN:C	2.56	0.43
36:BO:74:GLU:CB	36:BO:107:LYS:HD3	2.49	0.43
29:BF:31:HIS:HB3	36:BO:11:GLY:H	1.80	0.43
36:BO:124:LYS:HG2	36:BO:143:GLY:HA3	2.01	0.43
36:BO:126:VAL:HA	36:BO:146:VAL:N	2.31	0.43
36:BO:52:GLU:O	36:BO:53:GLY:C	2.57	0.43
36:BO:85:LEU:C	36:BO:86:LYS:HG2	2.39	0.43
37:BP:25:ASP:OD1	37:BP:101:ARG:NH1	2.50	0.43
37:BP:42:ILE:C	37:BP:94:VAL:CG2	2.87	0.43
38:BQ:105:ARG:NE	38:BQ:105:ARG:CA	2.79	0.43
24:BA:2708:G:H4'	38:BQ:71:GLN:OE1	2.18	0.43
39:BR:107:GLU:O	39:BR:108:GLY:C	2.56	0.43
39:BR:57:LYS:CE	39:BR:58:LEU:HB3	2.49	0.43
39:BR:69:VAL:O	39:BR:73:LEU:HD22	2.18	0.43
40:BS:96:ARG:CD	40:BS:117:ASP:OD2	2.50	0.43
40:BS:31:SER:C	40:BS:32:TYR:CD2	2.92	0.43
41:BT:89:GLU:HB3	42:BU:51:VAL:CA	2.49	0.43
42:BU:15:GLU:C	42:BU:100:ARG:CZ	2.87	0.43
42:BU:15:GLU:O	42:BU:100:ARG:NH2	2.52	0.43
42:BU:39:LEU:O	42:BU:40:LEU:CB	2.67	0.43
42:BU:5:VAL:HG13	42:BU:39:LEU:CA	2.48	0.43
42:BU:76:LYS:HA	42:BU:86:GLY:HA3	2.01	0.43
43:BV:25:ARG:NH2	43:BV:73:ALA:HA	2.34	0.43
44:BW:48:LYS:C	44:BW:49:VAL:HG13	2.39	0.43
24:BA:1335:U:P	44:BW:65:ARG:NE	2.92	0.43
45:BX:2:ARG:HE	45:BX:4:LYS:N	2.16	0.43
45:BX:35:TYR:O	45:BX:64:GLU:O	2.36	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:102:LEU:CG	46:BY:125:LEU:HD12	2.48	0.43
46:BY:102:LEU:HG	46:BY:125:LEU:CG	2.46	0.43
46:BY:138:GLU:C	46:BY:139:VAL:CG2	2.87	0.43
25:BB:75:G:H21	46:BY:85:HIS:CE1	2.35	0.43
32:BK:79:ILE:HB	32:BK:144:VAL:HG23	2.00	0.43
3:AD:18:G:O2'	3:AD:19:G:H4'	2.18	0.43
3:AD:60:U:OP2	3:AD:61:C:C5	2.72	0.43
26:BC:103:ILE:HG21	26:BC:108:MET:SD	2.58	0.43
26:BC:119:VAL:HG23	26:BC:123:VAL:HG23	2.01	0.43
26:BC:132:GLY:C	26:BC:134:ARG:H	2.21	0.43
26:BC:79:LYS:HG3	26:BC:119:VAL:CG1	2.49	0.43
6:AG:47:ARG:O	6:AG:47:ARG:HG3	2.18	0.43
1:AA:131:C:N4	1:AA:232:G:H1	2.16	0.43
1:AA:342:C:C2	1:AA:348:G:N2	2.86	0.43
24:BA:1416:G:N3	24:BA:1583:A:C6	2.86	0.43
24:BA:1416:G:C2	24:BA:1417:C:N4	2.87	0.43
24:BA:1578:U:H5''	24:BA:1580:A:N1	2.33	0.43
24:BA:1579:A:H3'	24:BA:1580:A:O4'	2.19	0.43
11:AL:99:LEU:CD2	11:AL:99:LEU:H	2.31	0.43
24:BA:2153:G:O2'	24:BA:2154:G:H5'	2.18	0.43
2:A1:27:A:H2'	2:A1:28:G:O4'	2.18	0.43
2:A1:51:U:HO2'	2:A1:52:U:C5'	2.31	0.43
1:AA:1004:A:C5'	1:AA:1025:U:C5	3.02	0.43
1:AA:99:C:O2'	1:AA:101:A:OP1	2.33	0.43
1:AA:1051:C:H2'	1:AA:1052:U:O4'	2.19	0.43
1:AA:1055:A:H2	5:AF:156:ARG:HD3	1.83	0.43
1:AA:1082:G:C6	1:AA:1083:U:C5	3.06	0.43
1:AA:1300:G:H2'	1:AA:1301:U:OP2	2.18	0.43
1:AA:1360:A:N1	1:AA:1361:G:C2	2.86	0.43
1:AA:1345:U:N3	1:AA:1377:A:N6	2.66	0.43
1:AA:199:G:H2'	1:AA:200:G:C8	2.53	0.43
1:AA:22:G:C2'	1:AA:23:C:C6	2.82	0.43
1:AA:247:G:N1	1:AA:278:G:C2	2.86	0.43
1:AA:285:G:C4	1:AA:286:G:C8	3.07	0.43
1:AA:333:G:C2	1:AA:334:C:C4	3.07	0.43
1:AA:404:U:OP1	6:AG:118:ARG:NH1	2.51	0.43
1:AA:407:G:O2'	1:AA:408:A:H5'	2.18	0.43
1:AA:408:A:C6	1:AA:409:G:C6	3.06	0.43
1:AA:440:A:C2'	1:AA:442:C:H6	2.31	0.43
1:AA:44:G:C2	1:AA:45:U:H1'	2.54	0.43
1:AA:558:G:C5'	1:AA:559:A:C5'	2.96	0.43
1:AA:643:C:C4	1:AA:644:G:N7	2.87	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:714:G:H2'	1:AA:715:A:H8	1.77	0.43
1:AA:747:C:H2'	1:AA:748:C:C1'	2.49	0.43
1:AA:753:A:O2'	1:AA:754:C:OP2	2.34	0.43
1:AA:761:G:H2'	1:AA:762:C:H6	1.84	0.43
1:AA:862:C:N3	1:AA:863:U:C5	2.87	0.43
1:AA:896:C:C2	1:AA:897:C:C6	3.06	0.43
1:AA:934:C:C5	1:AA:1344:C:C2	3.07	0.43
1:AA:950:U:H2'	1:AA:951:G:H5'	2.00	0.43
1:AA:979:C:O2	16:AQ:19:ARG:NE	2.52	0.43
3:AC:29:G:C2	3:AC:30:G:C8	3.06	0.43
4:AE:164:VAL:HG22	4:AE:165:VAL:H	1.82	0.43
4:AE:218:ALA:O	4:AE:221:LEU:N	2.51	0.43
4:AE:223:ILE:HA	4:AE:226:ARG:NE	2.34	0.43
4:AE:47:THR:HB	4:AE:48:MET:SD	2.59	0.43
4:AE:73:THR:O	4:AE:78:GLN:HB2	2.19	0.43
5:AF:142:MET:HB3	5:AF:170:GLN:CD	2.38	0.43
5:AF:15:THR:HG23	5:AF:15:THR:O	2.18	0.43
5:AF:39:ILE:O	5:AF:41:GLY:N	2.52	0.43
6:AG:76:ARG:HG3	6:AG:207:TYR:CD2	2.54	0.43
7:AH:50:GLU:HB2	7:AH:53:LEU:HG	2.01	0.43
7:AH:56:GLN:HE21	7:AH:56:GLN:CA	2.30	0.43
9:AJ:111:ARG:NH1	9:AJ:122:HIS:ND1	2.67	0.43
9:AJ:54:THR:OG1	9:AJ:54:THR:O	2.37	0.43
10:AK:40:ALA:O	10:AK:41:ARG:C	2.57	0.43
10:AK:7:ALA:HB2	10:AK:85:ARG:HH11	1.83	0.43
10:AK:85:ARG:HD2	10:AK:85:ARG:HA	1.79	0.43
10:AK:97:VAL:CG1	10:AK:98:LYS:NZ	2.81	0.43
11:AL:33:PHE:HE1	11:AL:47:LEU:HB2	1.84	0.43
11:AL:49:PRO:HB2	11:AL:82:ALA:HA	2.00	0.43
12:AM:63:PHE:HA	16:AQ:59:ALA:CB	2.48	0.43
12:AM:30:SER:O	12:AM:78:ASN:HB3	2.18	0.43
13:AN:42:TRP:CZ3	13:AN:47:VAL:HG22	2.53	0.43
13:AN:99:GLN:HA	13:AN:105:VAL:HG22	2.00	0.43
14:AO:32:PHE:C	14:AO:84:LEU:HD11	2.38	0.43
15:AP:8:GLU:O	15:AP:10:PRO:HD2	2.18	0.43
1:AA:1228:C:OP1	15:AP:115:LYS:HB3	2.18	0.43
15:AP:60:VAL:HG13	15:AP:64:TRP:CE3	2.54	0.43
16:AQ:24:CYS:HA	16:AQ:39:LEU:HA	2.01	0.43
18:AS:20:VAL:HG11	18:AS:32:TYR:CG	2.54	0.43
19:AT:5:VAL:CA	19:AT:59:ILE:O	2.66	0.43
19:AT:5:VAL:HG13	19:AT:59:ILE:C	2.31	0.43
19:AT:92:ARG:O	19:AT:93:GLN:C	2.57	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:AT:97:SER:C	19:AT:98:LEU:HD22	2.39	0.43
48:B1:28:MET:HB3	48:B1:32:PHE:CE1	2.54	0.43
48:B1:20:VAL:CG2	48:B1:52:ILE:HG23	2.30	0.43
48:B1:55:LEU:H	48:B1:55:LEU:CD1	2.31	0.43
49:B2:35:ARG:HG2	49:B2:35:ARG:H	1.65	0.43
52:B5:31:PRO:HB3	52:B5:34:LEU:CD1	2.30	0.43
54:B7:56:GLU:CD	54:B7:56:GLU:N	2.39	0.43
55:B8:19:ARG:HD3	55:B8:22:ARG:HB2	2.01	0.43
24:BA:1009:A:C2	24:BA:1010:A:C2	3.07	0.43
24:BA:1129:A:N7	24:BA:2570:G:O2'	2.30	0.43
24:BA:1210:A:H4'	24:BA:1211:U:C5'	2.48	0.43
24:BA:1292:U:C2	24:BA:1293:C:C5	3.07	0.43
24:BA:1296:G:N3	24:BA:1297:C:C5	2.87	0.43
24:BA:1301:A:H2'	24:BA:1302:A:O5'	2.18	0.43
24:BA:1334:G:H2'	24:BA:1335:U:H6	1.82	0.43
24:BA:1338:G:N2	24:BA:1393:A:H2	2.15	0.43
24:BA:1471:A:C2'	24:BA:1472:A:C5'	2.92	0.43
24:BA:149:A:H8	24:BA:150:C:O4'	2.01	0.43
24:BA:1540:G:C3'	24:BA:1541:U:C5'	2.96	0.43
24:BA:1550:C:C2	24:BA:1551:C:C5	3.06	0.43
24:BA:1605:C:C6	24:BA:1606:G:C8	3.06	0.43
24:BA:1635:G:N3	24:BA:1636:C:C6	2.87	0.43
24:BA:1824:G:H2'	24:BA:1825:A:C1'	2.48	0.43
24:BA:1906:G:C8	24:BA:1929:G:C8	3.06	0.43
24:BA:1945:G:C2	24:BA:1946:U:C4	3.06	0.43
24:BA:1980:G:O2'	24:BA:1981:A:C5'	2.67	0.43
24:BA:2018:G:C6	24:BA:2019:A:C2	3.07	0.43
24:BA:2020:A:O2'	24:BA:2021:C:C5	2.71	0.43
24:BA:2025:C:C2'	24:BA:2026:C:H6	2.23	0.43
24:BA:2025:C:C4	24:BA:2026:C:N4	2.87	0.43
24:BA:562:U:C5	24:BA:2036:C:O4'	2.71	0.43
24:BA:204:A:H4'	24:BA:205:G:H5'	2.01	0.43
24:BA:2051:A:OP2	24:BA:2051:A:C8	2.69	0.43
24:BA:2210:G:O2'	24:BA:2211:G:OP2	2.33	0.43
24:BA:2230:G:H1'	50:B3:58:ARG:HH22	1.79	0.43
24:BA:2348:U:O2'	24:BA:2349:G:H5'	2.19	0.43
24:BA:2395:C:N4	24:BA:2396:G:N7	2.67	0.43
24:BA:246:C:N3	24:BA:247:G:C5	2.86	0.43
24:BA:2542:A:HO2'	24:BA:2543:G:H8	1.65	0.43
24:BA:2564:A:C6	24:BA:2565:A:N6	2.87	0.43
24:BA:2682:U:O2	28:BE:12:THR:OG1	2.30	0.43
24:BA:270(K):C:H3'	24:BA:270(L):U:C6	2.45	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2893:G:H4'	24:BA:2894:G:O4'	2.18	0.43
24:BA:29:U:O2	24:BA:30:G:C6	2.71	0.43
24:BA:327:G:H2'	24:BA:327:G:N3	2.34	0.43
24:BA:328:U:O2'	45:BX:67:LEU:N	2.51	0.43
24:BA:483:A:H62	24:BA:497:A:H2	1.60	0.43
24:BA:585:G:O6	24:BA:1251:C:C6	2.71	0.43
24:BA:602:G:H4'	24:BA:603:A:O2'	2.18	0.43
24:BA:668:G:H5'	24:BA:669:G:OP2	2.19	0.43
24:BA:685:A:C2	24:BA:774:A:C2	3.07	0.43
24:BA:685:A:C2	24:BA:774:A:N1	2.87	0.43
24:BA:684:G:C2	24:BA:794:G:N2	2.87	0.43
24:BA:945:A:C2'	24:BA:946:G:H5''	2.49	0.43
24:BA:978:G:N1	24:BA:979:G:N1	2.67	0.43
24:BA:993:G:N7	24:BA:994:C:N4	2.65	0.43
25:BB:31:C:C2'	25:BB:32:C:OP1	2.67	0.43
25:BB:78:A:H2'	25:BB:79:C:C5'	2.44	0.43
25:BB:78:A:C6	25:BB:99:A:N6	2.83	0.43
27:BD:165:ILE:CD1	27:BD:165:ILE:N	2.81	0.43
27:BD:176:ARG:CA	27:BD:182:LEU:CD2	2.96	0.43
27:BD:169:GLU:HG3	27:BD:184:LYS:HZ3	1.80	0.43
27:BD:244:ARG:HA	27:BD:252:TRP:HE1	1.83	0.43
27:BD:270:ILE:C	27:BD:271:ILE:O	2.57	0.43
27:BD:96:HIS:CE1	27:BD:102:LYS:CD	2.93	0.43
28:BE:133:LYS:HD2	28:BE:137:HIS:ND1	2.32	0.43
28:BE:182:LEU:HD23	28:BE:182:LEU:C	2.38	0.43
29:BF:132:VAL:HG22	29:BF:135:LYS:HB2	1.98	0.43
29:BF:202:PHE:CZ	29:BF:205:ARG:NH1	2.87	0.43
29:BF:62:ARG:HG3	29:BF:63:LYS:HD3	2.00	0.43
24:BA:674:G:O3'	29:BF:74:ARG:CZ	2.66	0.43
30:BG:111:LEU:HB3	30:BG:112:PRO:HD2	1.94	0.43
30:BG:12:TYR:CE2	30:BG:13:GLU:OE2	2.72	0.43
30:BG:150:ASP:O	30:BG:152:LEU:N	2.52	0.43
31:BH:97:ARG:O	31:BH:99:VAL:HG23	2.18	0.43
34:BM:77:GLY:O	34:BM:78:TYR:O	2.37	0.43
35:BN:77:ILE:HG21	40:BS:65:LYS:CE	2.29	0.43
35:BN:90:GLN:O	35:BN:91:LEU:O	2.36	0.43
36:BO:131:SER:N	36:BO:134:ALA:HB2	2.34	0.43
36:BO:65:ARG:HH12	36:BO:68:GLN:NE2	2.14	0.43
37:BP:115:MET:HA	37:BP:118:LEU:CD1	2.47	0.43
37:BP:36:ALA:O	37:BP:37:LEU:CD2	2.67	0.43
37:BP:86:GLY:C	37:BP:88:GLY:N	2.70	0.43
37:BP:91:GLU:N	37:BP:91:GLU:OE2	2.51	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BQ:43:GLU:O	38:BQ:46:GLY:N	2.51	0.43
38:BQ:54:LEU:O	38:BQ:80:PHE:HE1	2.00	0.43
39:BR:62:LYS:O	39:BR:63:THR:C	2.57	0.43
39:BR:68:GLN:C	39:BR:70:GLY:N	2.71	0.43
40:BS:33:LYS:HE3	40:BS:45:PHE:CE2	2.54	0.43
35:BN:77:ILE:HG23	40:BS:65:LYS:HE2	1.93	0.43
41:BT:98:LEU:HD13	41:BT:101:ARG:CG	2.49	0.43
43:BV:64:MET:O	43:BV:65:LEU:C	2.55	0.43
44:BW:23:GLU:OE1	44:BW:24:GLY:N	2.51	0.43
44:BW:39:ILE:O	44:BW:43:VAL:CG2	2.66	0.43
45:BX:84:ARG:CD	45:BX:84:ARG:C	2.76	0.43
45:BX:86:ARG:HA	45:BX:91:GLU:O	2.19	0.43
46:BY:108:PRO:O	46:BY:109:ALA:HB2	2.18	0.43
46:BY:41:LEU:O	46:BY:44:PHE:CB	2.63	0.43
46:BY:43:GLU:HA	46:BY:46:LYS:CE	2.48	0.43
47:BZ:9:SER:O	47:BZ:10:THR:C	2.56	0.43
32:BK:109:ILE:CG2	32:BK:110:ASP:N	2.82	0.43
3:AD:19:G:OP1	3:AD:20:U:O4	2.36	0.43
3:AD:64:A:N3	3:AD:65:G:C8	2.87	0.43
24:BA:2114:A:C8	24:BA:2114:A:OP2	2.71	0.43
24:BA:2132:U:C2	24:BA:2133:G:H5'	2.54	0.43
26:BC:97:GLU:HG2	26:BC:100:ILE:HD12	1.98	0.43
26:BC:116:THR:C	26:BC:120:MET:HG2	2.38	0.43
26:BC:225:ASN:O	26:BC:227:HIS:N	2.51	0.43
26:BC:25:ALA:O	26:BC:29:VAL:HG12	2.19	0.43
26:BC:30:LYS:HD2	26:BC:185:LEU:CD1	2.48	0.43
30:BG:91:ARG:CG	30:BG:91:ARG:NH2	2.78	0.43
24:BA:1416:G:N2	24:BA:1417:C:C4	2.87	0.43
12:AM:3:LYS:HD2	12:AM:3:LYS:N	2.33	0.43
1:AA:1018:C:C4	1:AA:1019:C:C5	3.06	0.43
50:B3:50:VAL:C	50:B3:51:ASP:CG	2.76	0.43
2:A1:35:U:C6	2:A1:35:U:C3'	3.01	0.43
1:AA:1063:C:C5	1:AA:1064:G:C8	3.07	0.43
1:AA:1099:G:H2'	1:AA:1100:C:O5'	2.19	0.43
1:AA:1014:A:C2	1:AA:1219:U:H1'	2.54	0.43
1:AA:1226:C:C5	15:AP:104:ARG:CA	2.89	0.43
1:AA:1234:C:N4	1:AA:1235:U:C4	2.86	0.43
1:AA:1239:A:C8	1:AA:1241:G:H1'	2.53	0.43
1:AA:1272:G:C4	1:AA:1273:G:C8	3.07	0.43
1:AA:128:G:C5	1:AA:129:U:C4	3.07	0.43
1:AA:1328:C:H2'	1:AA:1329:A:H8	1.84	0.43
1:AA:1350:A:C6	1:AA:1351:U:C4	3.06	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:136:C:O4'	18:AS:1:MET:CE	2.66	0.43
1:AA:1436:U:C3'	1:AA:1437:C:C6	3.02	0.43
1:AA:1436:U:C2'	1:AA:1437:C:C6	3.02	0.43
1:AA:1455:G:H2'	1:AA:1459:C:H5'	1.99	0.43
1:AA:1470:G:C2	1:AA:1471:G:C4	3.07	0.43
1:AA:1483:A:H2'	1:AA:1484:C:H5'	2.00	0.43
1:AA:149:A:C2	1:AA:150:C:C2	3.07	0.43
1:AA:191(C):G:O2'	1:AA:191(D):U:H5'	2.18	0.43
1:AA:259:G:C2	1:AA:260:G:N3	2.87	0.43
1:AA:319:G:H4'	1:AA:1468:A:H4'	1.99	0.43
1:AA:424:G:N3	1:AA:425:G:C8	2.86	0.43
1:AA:407:G:N1	1:AA:436:C:C2	2.86	0.43
1:AA:483:C:N4	1:AA:484:G:N1	2.66	0.43
1:AA:494:U:O2	1:AA:495:A:O4'	2.37	0.43
1:AA:50:A:C6	1:AA:361:G:O4'	2.71	0.43
1:AA:589:C:C4	1:AA:590:C:N4	2.87	0.43
1:AA:696:A:N3	1:AA:786:G:O2'	2.35	0.43
1:AA:766:A:C8	1:AA:814:A:N1	2.87	0.43
1:AA:780:A:C2	1:AA:803:G:N1	2.86	0.43
1:AA:85:U:H2'	1:AA:86:U:O4'	2.18	0.43
1:AA:922:G:C2'	1:AA:923:A:H5'	2.48	0.43
1:AA:957:U:O2	1:AA:960:U:C5	2.71	0.43
1:AA:991:U:H6	1:AA:991:U:OP2	2.02	0.43
3:AB:45:U:O4	3:AB:46:G:O6	2.37	0.43
3:AB:63:G:H1'	24:BA:2482:G:O4'	2.19	0.43
3:AC:26:A:O2'	3:AC:27:G:H5'	2.18	0.43
3:AC:27:G:N2	3:AC:28:G:C5	2.87	0.43
3:AC:2:C:H2'	3:AC:3:C:C6	2.49	0.43
3:AC:71:G:C6	3:AC:72:C:C4	3.06	0.43
3:AC:7:A:C4	3:AC:49:C:C5	3.06	0.43
4:AE:126:GLU:O	4:AE:127:ILE:C	2.57	0.43
5:AF:108:ASN:C	5:AF:110:ASN:H	2.22	0.43
5:AF:33:LEU:O	5:AF:36:ASP:N	2.52	0.43
6:AG:11:LEU:O	6:AG:14:ARG:HB3	2.19	0.43
6:AG:20:TYR:CB	6:AG:27:TYR:HA	2.49	0.43
7:AH:55:VAL:C	7:AH:57:LYS:N	2.71	0.43
9:AJ:135:VAL:O	9:AJ:138:LYS:CB	2.56	0.43
9:AJ:139:GLU:O	9:AJ:142:GLU:HB2	2.18	0.43
9:AJ:14:PRO:HB3	9:AJ:19:GLY:C	2.39	0.43
9:AJ:63:LYS:HA	9:AJ:63:LYS:CE	2.33	0.43
9:AJ:79:ARG:HG2	9:AJ:84:ASN:HB3	2.01	0.43
10:AK:111:ILE:CG2	10:AK:118:VAL:CG1	2.97	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AK:10:LEU:CD2	10:AK:83:ILE:HD11	2.48	0.43
11:AL:112:LYS:CG	11:AL:117:HIS:HA	2.45	0.43
1:AA:1343:G:O2'	11:AL:121:ARG:HA	2.18	0.43
11:AL:70:LYS:O	11:AL:71:SER:C	2.56	0.43
11:AL:49:PRO:CD	11:AL:78:LYS:HZ3	2.29	0.43
12:AM:48:THR:O	12:AM:49:VAL:HG23	2.19	0.43
12:AM:48:THR:OG1	12:AM:62:HIS:HB3	2.19	0.43
13:AN:123:LYS:N	13:AN:126:ARG:HG3	2.34	0.43
13:AN:63:LEU:CA	13:AN:66:LEU:HG	2.47	0.43
1:AA:363:A:P	14:AO:33:ARG:HH21	2.41	0.43
14:AO:57:LYS:C	14:AO:58:VAL:HG23	2.39	0.43
14:AO:27:LEU:CD2	14:AO:62:SER:OG	2.66	0.43
15:AP:10:PRO:HG2	15:AP:18:ALA:CB	2.48	0.43
17:AR:29:VAL:HG22	17:AR:67:LEU:HD21	2.01	0.43
17:AR:3:ILE:HA	17:AR:38:ARG:HH12	1.84	0.43
17:AR:53:HIS:CD2	17:AR:57:LEU:CD1	3.01	0.43
18:AS:26:ARG:HD3	18:AS:31:LYS:HZ3	1.84	0.43
18:AS:26:ARG:HH11	18:AS:26:ARG:HG3	1.83	0.43
18:AS:55:ARG:O	18:AS:59:TRP:HB2	2.19	0.43
19:AT:57:VAL:CB	19:AT:75:ARG:O	2.64	0.43
20:AU:51:LEU:H	20:AU:51:LEU:HD13	1.82	0.43
20:AU:64:ARG:HG3	20:AU:64:ARG:HH11	1.83	0.43
8:AI:97:PHE:CE2	20:AU:65:ILE:HD11	2.54	0.43
13:AN:110:ASP:HA	20:AU:88:LYS:HD3	2.01	0.43
21:AV:70:LYS:O	21:AV:71:LEU:C	2.57	0.43
48:B1:34:ALA:O	48:B1:35:SER:CB	2.67	0.43
50:B3:57:GLU:CA	50:B3:61:ARG:NH1	2.81	0.43
51:B4:19:ARG:C	51:B4:21:SER:H	2.21	0.43
52:B5:22:ALA:O	52:B5:23:THR:CG2	2.66	0.43
53:B6:17:GLY:O	53:B6:21:ARG:NH1	2.51	0.43
54:B7:42:ARG:C	54:B7:43:GLN:CD	2.77	0.43
54:B7:23:VAL:CG2	54:B7:47:LYS:O	2.51	0.43
54:B7:62:LEU:N	54:B7:63:PRO:CD	2.81	0.43
55:B8:9:ARG:NH2	55:B8:16:VAL:HB	2.34	0.43
24:BA:1085:A:C8	24:BA:1086:A:H1'	2.53	0.43
24:BA:1071:G:N2	24:BA:1089:G:H2'	2.34	0.43
24:BA:1022:G:N7	24:BA:1139:G:C6	2.87	0.43
24:BA:1148:A:C6	24:BA:1149:G:C5	3.06	0.43
24:BA:126:A:N6	24:BA:127:A:N1	2.56	0.43
24:BA:1324:G:C2	24:BA:1328:G:N1	2.87	0.43
24:BA:137(A):G:N1	24:BA:138:G:O6	2.52	0.43
24:BA:1389:G:C2	24:BA:1390:U:C4	3.07	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1448:G:N2	24:BA:1529:A:H2	2.16	0.43
24:BA:1527:G:H2'	24:BA:1528:A:O5'	2.19	0.43
24:BA:1530:G:N2	24:BA:1541:U:H2'	2.23	0.43
24:BA:1689:A:N6	24:BA:1700:A:C4	2.86	0.43
24:BA:1718:G:N7	24:BA:1725:G:N7	2.66	0.43
24:BA:1728:G:H1	24:BA:1733:G:N2	2.16	0.43
24:BA:1746:G:C4	24:BA:1747:G:C8	3.06	0.43
24:BA:1856:G:N7	24:BA:1857:G:N3	2.67	0.43
24:BA:1858:G:C5	24:BA:1883:G:C2	3.07	0.43
24:BA:1927:A:N7	24:BA:1928:A:C5	2.87	0.43
24:BA:1952:A:C6	24:BA:1953:A:N1	2.86	0.43
24:BA:1997:G:H2'	24:BA:1998:G:C8	2.54	0.43
24:BA:1998:G:C6	24:BA:1999:C:N4	2.86	0.43
24:BA:2044:C:C5	24:BA:2625:G:C2	3.06	0.43
24:BA:2052:G:C6	24:BA:2053:G:C6	3.06	0.43
24:BA:2067:G:N1	24:BA:2069:G:C5	2.87	0.43
24:BA:2226:C:O2	27:BD:262:ARG:NE	2.51	0.43
24:BA:2289:G:H5'	24:BA:2384:G:O2'	2.19	0.43
24:BA:2408:U:C2	24:BA:2409:G:N7	2.86	0.43
24:BA:2459:A:OP2	24:BA:2460:U:C4	2.71	0.43
24:BA:2476:A:H2'	24:BA:2477:C:O4'	2.19	0.43
24:BA:2571:C:C2'	24:BA:2572:A:OP1	2.67	0.43
24:BA:2605:U:H2'	24:BA:2606:C:H5'	2.01	0.43
24:BA:2626:C:C3'	24:BA:2626:C:C6	3.02	0.43
24:BA:2636:U:P	28:BE:78:LEU:HD12	2.58	0.43
24:BA:2650:U:N3	24:BA:2651:C:C5	2.87	0.43
24:BA:2807:G:C6	24:BA:2893:G:N7	2.87	0.43
24:BA:2812:G:N1	24:BA:2813:A:C6	2.87	0.43
24:BA:2826:A:H2'	24:BA:2827:C:H5'	2.01	0.43
24:BA:2817:G:C2	24:BA:2830:G:C2	3.07	0.43
24:BA:2844:G:N3	24:BA:2844:G:C2'	2.81	0.43
24:BA:2884:U:H2'	24:BA:2885:C:H5'	2.01	0.43
24:BA:2811:G:C6	24:BA:2891:G:C2	3.06	0.43
24:BA:296:C:O2'	24:BA:297:C:H5'	2.19	0.43
24:BA:408:G:H2'	24:BA:409:C:H6	1.84	0.43
24:BA:449:A:C2	24:BA:450:G:N7	2.86	0.43
24:BA:527:C:C5	24:BA:2779:U:H3'	2.54	0.43
24:BA:557:U:O3'	34:BM:112:LEU:HD21	2.18	0.43
24:BA:568:U:H2'	24:BA:570:G:H8	1.75	0.43
24:BA:577:G:O6	24:BA:578:A:N6	2.52	0.43
24:BA:602:G:H21	24:BA:655:A:H2'	1.84	0.43
24:BA:734:A:C2	24:BA:735:A:C8	3.07	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:734:A:N3	24:BA:735:A:C8	2.87	0.43
24:BA:770:G:N2	24:BA:771:G:H1'	2.34	0.43
24:BA:943:U:OP2	36:BO:32:THR:HB	2.18	0.43
24:BA:820:A:C8	24:BA:973:A:N6	2.87	0.43
24:BA:983:A:H2'	24:BA:984:A:N7	2.34	0.43
24:BA:986:C:C3'	24:BA:986:C:C6	3.02	0.43
24:BA:977:G:C8	24:BA:987:G:N2	2.87	0.43
24:BA:996:A:C4	24:BA:997:G:N7	2.86	0.43
25:BB:46:A:O5'	25:BB:46:A:H8	2.02	0.43
25:BB:84:C:O2	25:BB:85:G:C8	2.71	0.43
24:BA:1971:A:C2	27:BD:239:ARG:CB	3.02	0.43
28:BE:4:ILE:O	28:BE:27:LEU:CD2	2.57	0.43
28:BE:60:ASN:OD1	28:BE:61:ARG:HD3	2.18	0.43
29:BF:106:ARG:CG	29:BF:107:LYS:H	2.31	0.43
29:BF:182:ASN:OD1	29:BF:185:ASP:N	2.52	0.43
29:BF:194:MET:HE1	29:BF:197:ASP:CA	2.49	0.43
29:BF:97:TYR:O	29:BF:98:SER:O	2.37	0.43
29:BF:9:ILE:CG2	29:BF:124:LEU:O	2.67	0.43
30:BG:99:MET:O	30:BG:102:PHE:HB2	2.18	0.43
30:BG:118:ARG:O	30:BG:180:PHE:CZ	2.72	0.43
31:BH:35:VAL:HG11	31:BH:75:ALA:HB2	2.01	0.43
32:BK:2:LYS:NZ	32:BK:39:ALA:CB	2.82	0.43
33:BL:115:LEU:HD12	33:BL:118:THR:CG2	2.49	0.43
33:BL:10:LEU:HD13	33:BL:23:VAL:HG22	1.97	0.43
34:BM:123:TYR:HB2	34:BM:129:PRO:HG3	2.00	0.43
34:BM:13:TRP:O	34:BM:138:LEU:CD1	2.62	0.43
34:BM:38:HIS:CE1	41:BT:70:ARG:HH22	2.37	0.43
36:BO:99:LEU:CD1	36:BO:101:VAL:HG22	2.44	0.43
36:BO:97:PRO:CB	36:BO:102:ARG:NH1	2.79	0.43
24:BA:663:G:H5'	36:BO:18:ARG:NE	2.32	0.43
36:BO:91:PHE:CE2	36:BO:96:THR:HA	2.53	0.43
37:BP:46:GLN:CG	37:BP:125:LEU:HA	2.48	0.43
37:BP:130:LYS:HE3	37:BP:131:ILE:H	1.82	0.43
37:BP:8:LYS:HZ1	37:BP:72:LYS:C	2.21	0.43
38:BQ:20:LEU:HD13	38:BQ:21:TYR:CA	2.49	0.43
39:BR:13:ARG:NH1	39:BR:89:ARG:O	2.51	0.43
40:BS:27:THR:CG2	40:BS:28:VAL:H	2.23	0.43
35:BN:73:ASP:HB3	40:BS:79:HIS:NE2	2.34	0.43
28:BE:9:VAL:CG2	40:BS:7:ILE:HG21	2.48	0.43
40:BS:82:LEU:O	40:BS:83:ILE:C	2.57	0.43
41:BT:41:ALA:O	41:BT:43:GLY:N	2.52	0.43
41:BT:53:ARG:CZ	41:BT:53:ARG:CB	2.97	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BU:83:ARG:CD	42:BU:84:LYS:N	2.80	0.43
43:BV:37:ARG:HG3	43:BV:38:TYR:HD1	1.84	0.43
45:BX:82:PRO:HG2	45:BX:95:LYS:O	2.19	0.43
46:BY:11:GLU:HG3	46:BY:36:LYS:HZ1	1.82	0.43
46:BY:51:ALA:O	46:BY:53:ILE:N	2.51	0.43
32:BK:114:LEU:HB3	32:BK:115:ALA:H	1.36	0.43
3:AD:17:C:H5	3:AD:19:G:H8	1.67	0.43
24:BA:2115:G:C2	24:BA:2117:A:C8	3.07	0.43
26:BC:107:TRP:CZ3	26:BC:110:PHE:HE2	2.37	0.43
26:BC:10:LEU:HD22	26:BC:32:LEU:O	2.18	0.43
26:BC:4:GLY:C	26:BC:5:LYS:HD2	2.39	0.43
26:BC:64:LEU:HD12	26:BC:161:ILE:CG2	2.44	0.43
1:AA:160:A:C2'	1:AA:161:A:H5'	2.49	0.43
14:AO:126:LYS:NZ	14:AO:128:ALA:N	2.57	0.43
1:AA:1164:G:C6	1:AA:1165:C:N3	2.87	0.43
3:AD:28:G:N1	3:AD:43:C:C2	2.87	0.43
24:BA:363(D):G:C2'	24:BA:363(E):U:H5'	2.49	0.43
24:BA:491:G:H2'	24:BA:492:A:O4'	2.19	0.43
32:BK:47:LEU:HG	32:BK:51:ILE:HD12	2.00	0.43
33:BL:94:GLU:O	33:BL:96:VAL:HG13	2.19	0.43
1:AA:1061:G:N3	1:AA:1197:G:C2	2.87	0.43
1:AA:1091:U:O2	1:AA:1093:A:C8	2.72	0.43
1:AA:1068:G:C8	1:AA:1094:G:N7	2.87	0.43
1:AA:1187:G:C4	1:AA:1188:A:C8	3.07	0.43
1:AA:1200:C:C5'	1:AA:1201:A:O3'	2.63	0.43
1:AA:1225:A:OP2	15:AP:102:ARG:O	2.37	0.43
1:AA:1344:C:O2'	1:AA:1349:A:H5'	2.18	0.43
1:AA:1368:G:H2'	1:AA:1369:C:H6	1.84	0.43
1:AA:1433:A:O5'	1:AA:1433:A:H8	2.02	0.43
1:AA:20:U:O4'	1:AA:572:A:C2	2.72	0.43
1:AA:21:G:C2	1:AA:915:A:N6	2.84	0.43
1:AA:556:C:H2'	1:AA:557:G:O4'	2.19	0.43
1:AA:584:G:OP2	19:AT:87:LYS:NZ	2.51	0.43
1:AA:619:U:C2'	1:AA:619:U:O2	2.67	0.43
1:AA:738:C:C4	1:AA:739:C:C5	3.06	0.43
1:AA:760:G:C5'	1:AA:761:G:OP2	2.66	0.43
1:AA:766:A:C2	1:AA:767:A:C1'	3.01	0.43
1:AA:774:G:C6	1:AA:775:G:C5	3.07	0.43
1:AA:826:C:C5'	10:AK:12:ARG:NH2	2.77	0.43
1:AA:899:C:C4	1:AA:900:A:C6	3.07	0.43
1:AA:915:A:H2'	1:AA:916:G:C4'	2.48	0.43
1:AA:965:A:P	1:AA:1198:G:H5''	2.59	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:994:A:OP1	1:AA:995:C:H5	2.01	0.43
3:AB:29:G:C5	3:AB:30:G:N7	2.87	0.43
3:AC:57:G:C4'	30:BG:82:LEU:HD22	2.48	0.43
4:AE:114:ARG:C	4:AE:114:ARG:HD3	2.39	0.43
4:AE:115:LEU:O	4:AE:118:LEU:HD13	2.19	0.43
4:AE:149:LEU:HD23	4:AE:149:LEU:C	2.38	0.43
4:AE:153:ARG:O	4:AE:154:LEU:C	2.57	0.43
4:AE:60:ASP:O	4:AE:63:MET:N	2.52	0.43
4:AE:84:GLU:OE1	4:AE:233:SER:OG	2.23	0.43
5:AF:143:GLU:C	5:AF:145:GLY:N	2.72	0.43
5:AF:22:TRP:CZ3	5:AF:32:LEU:HD13	2.53	0.43
5:AF:43:LEU:CD1	5:AF:55:VAL:HG21	2.49	0.43
5:AF:82:GLU:O	5:AF:85:ARG:CB	2.65	0.43
6:AG:165:MET:O	6:AG:167:GLY:N	2.52	0.43
6:AG:91:SER:O	6:AG:94:LEU:N	2.51	0.43
6:AG:94:LEU:CA	6:AG:97:LEU:HD12	2.42	0.43
7:AH:71:LEU:O	7:AH:72:GLN:HG2	2.18	0.43
8:AI:52:ILE:CG2	8:AI:87:ARG:NH2	2.82	0.43
10:AK:108:GLY:HA2	10:AK:138:TRP:CB	2.49	0.43
10:AK:117:GLY:O	10:AK:119:LEU:CD2	2.67	0.43
10:AK:11:THR:OG1	10:AK:12:ARG:N	2.52	0.43
10:AK:12:ARG:HH11	10:AK:26:VAL:HG22	1.83	0.43
10:AK:45:ILE:HD12	10:AK:61:VAL:HG22	2.01	0.43
10:AK:75:ARG:HH11	10:AK:75:ARG:CG	2.32	0.43
11:AL:38:GLN:O	11:AL:39:GLY:C	2.57	0.43
11:AL:65:VAL:CG2	11:AL:73:GLN:HB3	2.49	0.43
12:AM:81:THR:O	12:AM:85:LEU:CD1	2.67	0.43
12:AM:89:ASP:O	12:AM:90:LEU:CG	2.63	0.43
13:AN:59:TYR:CD1	13:AN:62:GLN:NE2	2.87	0.43
13:AN:69:ALA:O	13:AN:70:LYS:C	2.58	0.43
13:AN:99:GLN:O	13:AN:105:VAL:CG2	2.67	0.43
1:AA:363:A:H5''	14:AO:105:TYR:OH	2.19	0.43
15:AP:14:ARG:HA	15:AP:44:ARG:CA	2.40	0.43
15:AP:2:ALA:HB3	15:AP:4:ILE:CG1	2.49	0.43
15:AP:91:ARG:NH1	15:AP:96:LEU:HD12	2.32	0.43
16:AQ:61:TRP:C	16:AQ:61:TRP:CD1	2.92	0.43
18:AS:4:ILE:HG12	18:AS:65:GLN:O	2.17	0.43
22:AW:17:ARG:HA	22:AW:20:LEU:HG	2.00	0.43
22:AW:25:ARG:HB2	22:AW:25:ARG:CZ	2.49	0.43
1:AA:193:C:O4'	22:AW:60:GLU:CG	2.67	0.43
48:B1:27:LEU:HA	48:B1:30:LEU:CD1	2.49	0.43
51:B4:40:LYS:CE	51:B4:52:TYR:HE1	2.31	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:B6:35:ARG:O	53:B6:36:GLN:NE2	2.52	0.43
55:B8:7:VAL:CG2	55:B8:34:GLN:OE1	2.61	0.43
24:BA:1014:U:H2'	24:BA:1015:G:C5'	2.49	0.43
24:BA:1015:G:C6	24:BA:1148:A:C6	3.06	0.43
24:BA:1031:G:N1	24:BA:1032:A:C5	2.87	0.43
24:BA:107:C:O2'	24:BA:108:U:O5'	2.37	0.43
24:BA:1057:A:O4'	24:BA:1084:A:N6	2.52	0.43
24:BA:1103:A:C2'	24:BA:1104:C:OP1	2.67	0.43
24:BA:1134:G:H2'	24:BA:1134:G:N3	2.34	0.43
24:BA:1153:C:N4	24:BA:1154:G:O6	2.52	0.43
24:BA:1204:A:C5'	24:BA:1206:G:OP1	2.56	0.43
24:BA:1223:C:N3	24:BA:1227:A:N1	2.67	0.43
24:BA:1213:A:N1	24:BA:1237:A:H1'	2.34	0.43
24:BA:1267:U:H3'	24:BA:1267:U:H6	1.83	0.43
24:BA:1324:G:C2	24:BA:1331:A:C2	3.06	0.43
24:BA:1334:G:H2'	24:BA:1335:U:C6	2.54	0.43
24:BA:1353:A:O2'	24:BA:1354:A:H5'	2.19	0.43
24:BA:1358:G:H2'	24:BA:1371:G:N2	2.34	0.43
24:BA:1344:G:C6	24:BA:1385:G:N7	2.86	0.43
24:BA:1532:C:OP2	24:BA:1532:C:C6	2.72	0.43
24:BA:1568:G:P	27:BD:61:LEU:HD12	2.58	0.43
24:BA:1576:U:H2'	24:BA:1577:C:C5	2.54	0.43
24:BA:1603:A:N3	24:BA:1603:A:H2'	2.33	0.43
24:BA:1635:G:C5'	24:BA:1635:G:C8	3.02	0.43
24:BA:1672:C:H41	24:BA:1673:U:H5	1.66	0.43
24:BA:740:U:O5'	24:BA:1784:A:C6	2.72	0.43
24:BA:1826:G:N2	24:BA:1827:C:C1'	2.82	0.43
24:BA:1863:G:C5	24:BA:1864:U:C4	3.07	0.43
24:BA:185:U:O2'	24:BA:186:G:O4'	2.27	0.43
24:BA:1951:U:C2'	24:BA:1953:A:O5'	2.66	0.43
24:BA:2048:G:C2	24:BA:2049:G:N9	2.86	0.43
24:BA:216:A:C2	24:BA:217:G:C6	3.07	0.43
24:BA:2226:C:N3	24:BA:2227:A:N3	2.67	0.43
24:BA:2234:G:N2	24:BA:2235:G:H1'	2.33	0.43
24:BA:2284:C:H5''	52:B5:9:LEU:CG	2.48	0.43
24:BA:2309:A:H5''	24:BA:2310:A:H8	1.84	0.43
24:BA:2298:A:C2	24:BA:2321:G:C6	3.05	0.43
24:BA:2341:G:H2'	24:BA:2342:C:H6	1.72	0.43
24:BA:2347:C:C4	24:BA:2348:U:O4	2.72	0.43
24:BA:2358:G:N2	24:BA:2359:C:H1'	2.33	0.43
24:BA:2387:U:OP2	24:BA:2387:U:C6	2.72	0.43
24:BA:2245:U:H1'	24:BA:2435:A:H3'	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2491:U:C5	24:BA:2492:U:P	3.12	0.43
24:BA:2536:G:C5	24:BA:2537:U:C5	3.07	0.43
24:BA:2509:G:C6	24:BA:2580:U:N3	2.87	0.43
24:BA:2586:C:C3'	24:BA:2586:C:C6	3.02	0.43
24:BA:2588:G:N2	24:BA:2607:G:C5	2.87	0.43
24:BA:2662:A:H2'	24:BA:2663:G:C5'	2.46	0.43
24:BA:270(X):G:C2	24:BA:270(Y):G:H4'	2.53	0.43
24:BA:2717:G:H2'	24:BA:2718:G:H8	1.83	0.43
24:BA:2717:G:N3	24:BA:2718:G:C8	2.86	0.43
24:BA:2737:G:C5	24:BA:2738:A:N7	2.87	0.43
24:BA:281:G:N2	24:BA:283:A:H4'	2.34	0.43
24:BA:2825:C:H2'	24:BA:2826:A:C8	2.53	0.43
24:BA:2850:A:H2'	24:BA:2851:A:O5'	2.18	0.43
24:BA:2852:G:H2'	24:BA:2853:C:H6	1.74	0.43
24:BA:2863:C:C2'	24:BA:2864:G:H5'	2.48	0.43
24:BA:2863:C:C2	24:BA:2864:G:C8	3.06	0.43
24:BA:28:A:N3	24:BA:28:A:H2'	2.33	0.43
24:BA:476:G:H22	24:BA:478:A:H3'	1.81	0.43
24:BA:580:C:N3	24:BA:581:C:C5	2.87	0.43
24:BA:617:G:C8	24:BA:617:G:H3'	2.54	0.43
24:BA:685:A:C2'	24:BA:686:G:OP2	2.67	0.43
24:BA:727:A:N6	24:BA:729:G:C6	2.86	0.43
24:BA:804:A:O3'	24:BA:806:C:N4	2.52	0.43
24:BA:828:U:C5	24:BA:829:A:N7	2.87	0.43
24:BA:850:C:H4'	49:B2:18:ASP:HB2	2.01	0.43
24:BA:855:G:C6	24:BA:856:C:C4	3.07	0.43
24:BA:909:A:C2	24:BA:912:C:H1'	2.54	0.43
24:BA:838:C:C2	24:BA:941:A:N6	2.87	0.43
24:BA:974:G:N3	24:BA:1186:G:C5	2.87	0.43
24:BA:984:A:P	24:BA:985:C:H41	2.41	0.43
24:BA:99:U:H5'	24:BA:101:G:H5'	2.00	0.43
25:BB:112:G:N2	25:BB:113:C:H1'	2.34	0.43
25:BB:1:U:O4	25:BB:2:C:N4	2.52	0.43
25:BB:29:A:C2	25:BB:56:G:C2	3.06	0.43
27:BD:134:ARG:C	27:BD:136:ILE:N	2.69	0.43
27:BD:132:PRO:CB	27:BD:190:TYR:CE1	3.02	0.43
27:BD:23:GLU:HB3	27:BD:205:VAL:H	1.84	0.43
27:BD:55:GLY:HA3	27:BD:217:ARG:NH2	2.34	0.43
27:BD:226:MET:HE1	27:BD:237:GLU:C	2.39	0.43
27:BD:90:ALA:HB2	27:BD:159:ALA:HB2	2.01	0.43
27:BD:9:TYR:HH	27:BD:91:ARG:CZ	2.27	0.43
28:BE:12:THR:HG21	28:BE:19:ARG:CZ	2.46	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:BE:133:LYS:CE	28:BE:137:HIS:CB	2.97	0.43
28:BE:137:HIS:HB2	28:BE:138:PRO:CD	2.40	0.43
29:BF:168:ARG:O	29:BF:169:ASN:O	2.36	0.43
29:BF:124:LEU:HD21	29:BF:201:VAL:HG21	2.00	0.43
29:BF:63:LYS:O	29:BF:64:ILE:HG22	2.19	0.43
30:BG:162:THR:O	30:BG:164:GLU:HG2	2.19	0.43
30:BG:27:ASN:O	30:BG:27:ASN:OD1	2.36	0.43
30:BG:36:LYS:HE2	30:BG:38:VAL:CG1	2.29	0.43
30:BG:57:ALA:HB1	30:BG:67:LYS:HG3	2.01	0.43
24:BA:2312:U:OP1	30:BG:86:MET:HG2	2.18	0.43
31:BH:96:ALA:HB3	31:BH:128:PRO:HB2	2.00	0.43
31:BH:153:LYS:HD3	31:BH:154:PRO:HD3	2.00	0.43
31:BH:85:LYS:HZ3	31:BH:141:VAL:C	2.22	0.43
24:BA:1080:C:H4'	33:BL:125:ARG:HB3	2.00	0.43
33:BL:41:PHE:HZ	33:BL:57:ILE:HD13	1.78	0.43
24:BA:1007:C:H4'	34:BM:108:PRO:HG3	2.01	0.43
34:BM:33:LEU:O	34:BM:35:ARG:CG	2.66	0.43
34:BM:78:TYR:HB3	34:BM:79:PRO:CD	2.37	0.43
35:BN:34:THR:HB	35:BN:37:ASP:OD2	2.19	0.43
35:BN:72:PRO:HB2	40:BS:84:GLN:HE21	1.84	0.43
35:BN:85:VAL:O	35:BN:93:PRO:CG	2.67	0.43
35:BN:92:GLU:OE2	35:BN:114:ILE:HG13	2.19	0.43
36:BO:97:PRO:CD	36:BO:102:ARG:NH2	2.82	0.43
36:BO:72:PRO:CB	36:BO:110:TYR:O	2.67	0.43
36:BO:122:PRO:HD3	36:BO:137:LYS:HB3	2.01	0.43
36:BO:13:ASN:O	36:BO:14:LYS:C	2.57	0.43
24:BA:389:G:C6	36:BO:64:LYS:HG2	2.54	0.43
37:BP:122:GLY:CA	37:BP:125:LEU:HG	2.41	0.43
37:BP:91:GLU:N	37:BP:91:GLU:CD	2.72	0.43
38:BQ:28:LEU:C	38:BQ:28:LEU:CD1	2.88	0.43
38:BQ:79:LEU:CG	38:BQ:80:PHE:N	2.79	0.43
39:BR:100:ALA:O	39:BR:101:LEU:C	2.56	0.43
40:BS:100:TYR:C	40:BS:102:ILE:N	2.70	0.43
40:BS:30:VAL:CG2	40:BS:32:TYR:OH	2.64	0.43
40:BS:70:VAL:HB	40:BS:74:ARG:CZ	2.43	0.43
40:BS:85:LYS:CB	40:BS:85:LYS:NZ	2.81	0.43
40:BS:8:LYS:CA	40:BS:11:GLU:OE1	2.67	0.43
41:BT:108:GLU:C	41:BT:111:GLU:HG2	2.39	0.43
41:BT:55:ARG:HA	41:BT:58:ARG:HB3	2.01	0.43
41:BT:66:ASN:O	41:BT:67:ALA:C	2.56	0.43
41:BT:84:LYS:C	41:BT:86:ALA:N	2.71	0.43
42:BU:20:LEU:HD22	42:BU:68:LYS:NZ	2.34	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BU:67:GLY:HA2	42:BU:94:LEU:CA	2.49	0.43
24:BA:142:G:H4'	44:BW:37:THR:OG1	2.19	0.43
45:BX:47:LYS:CB	45:BX:49:VAL:HG22	2.36	0.43
46:BY:57:ILE:HG23	46:BY:69:THR:C	2.36	0.43
47:BZ:26:TYR:CD1	47:BZ:29:GLN:CD	2.92	0.43
47:BZ:39:ARG:NH1	47:BZ:58:THR:OG1	2.48	0.43
47:BZ:70:GLN:OE1	47:BZ:80:HIS:CD2	2.71	0.43
32:BK:122:GLU:HA	32:BK:122:GLU:OE1	2.19	0.43
32:BK:125:GLU:O	32:BK:125:GLU:CD	2.57	0.43
32:BK:72:LEU:O	32:BK:140:LEU:CD2	2.67	0.43
3:AD:14:A:N3	3:AD:14:A:C2'	2.78	0.43
24:BA:2133:G:O6	24:BA:2157:G:H1'	2.19	0.43
24:BA:2136:C:C2	24:BA:2137:C:C5	3.07	0.43
26:BC:10:LEU:HD11	26:BC:32:LEU:HD22	1.99	0.43
26:BC:89:ALA:CB	26:BC:154:ARG:HH11	2.31	0.43
24:BA:183:C:C1'	24:BA:433:C:H1'	2.29	0.43
1:AA:1055:A:C2'	1:AA:1055:A:N3	2.77	0.43
1:AA:107:G:H2'	1:AA:108:G:O4'	2.19	0.43
1:AA:1201:A:C2'	1:AA:1201:A:N3	2.80	0.43
1:AA:1201:A:H2'	1:AA:1202:G:OP2	2.19	0.43
1:AA:1309:G:OP2	15:AP:99:ARG:CZ	2.67	0.43
1:AA:1326:C:O2'	1:AA:1327:C:C5'	2.67	0.43
1:AA:1358:U:C5	1:AA:1359:C:C5	3.06	0.43
1:AA:1365:G:C6	1:AA:1366:C:N4	2.87	0.43
1:AA:1374:A:C4	1:AA:1375:A:C8	3.07	0.43
1:AA:144:G:C4	1:AA:179:A:C2	3.07	0.43
1:AA:1516:G:C2	1:AA:1518:A:P	3.12	0.43
1:AA:185:A:O2'	1:AA:186:C:H5'	2.18	0.43
1:AA:226:G:O2'	1:AA:227:G:H5'	2.18	0.43
1:AA:242:C:H2'	1:AA:243:A:O5'	2.19	0.43
1:AA:113:G:O4'	1:AA:354:G:C5'	2.67	0.43
1:AA:451:A:H1'	1:AA:452:A:C5	2.52	0.43
1:AA:600:C:HO2'	1:AA:601:C:H5'	1.79	0.43
1:AA:67:C:C1'	1:AA:172:A:H1'	2.49	0.43
1:AA:738:C:N3	1:AA:739:C:C5	2.87	0.43
1:AA:826:C:H6	1:AA:826:C:O5'	2.02	0.43
1:AA:830:G:N1	1:AA:857:C:C4	2.87	0.43
1:AA:978:A:H3'	1:AA:980:C:H41	1.83	0.43
3:AC:22:G:O2'	3:AC:23:A:H5'	2.18	0.43
3:AC:41:C:C2	3:AC:42:C:C6	3.07	0.43
3:AC:48:C:H6	3:AC:48:C:OP2	2.02	0.43
4:AE:105:PHE:O	4:AE:109:SER:CB	2.67	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:149:LEU:C	4:AE:151:GLY:H	2.22	0.43
4:AE:222:ILE:CD1	4:AE:223:ILE:HG13	2.47	0.43
4:AE:92:TYR:N	4:AE:92:TYR:CD2	2.87	0.43
4:AE:93:VAL:HG12	4:AE:95:GLN:H	1.83	0.43
4:AE:97:TRP:O	4:AE:99:GLY:N	2.46	0.43
5:AF:29:TYR:HA	5:AF:32:LEU:HD12	2.01	0.43
5:AF:43:LEU:HD11	5:AF:55:VAL:CG1	2.48	0.43
6:AG:192:GLU:H	6:AG:192:GLU:CD	2.11	0.43
6:AG:18:LYS:O	6:AG:19:LEU:HD23	2.19	0.43
6:AG:25:ARG:NH1	6:AG:25:ARG:HB3	2.34	0.43
6:AG:32:ALA:N	6:AG:34:GLU:O	2.52	0.43
6:AG:6:GLY:O	6:AG:8:VAL:N	2.52	0.43
7:AH:33:VAL:C	7:AH:34:VAL:HG22	2.38	0.43
7:AH:82:VAL:HG11	7:AH:134:ALA:C	2.39	0.43
7:AH:97:GLY:O	7:AH:99:GLY:N	2.52	0.43
8:AI:24:GLU:OE2	8:AI:28:ARG:NH2	2.43	0.43
8:AI:94:GLN:C	8:AI:95:GLU:CG	2.87	0.43
9:AJ:76:ARG:HD3	9:AJ:89:MET:CE	2.48	0.43
9:AJ:79:ARG:CG	9:AJ:84:ASN:HB3	2.48	0.43
11:AL:5:TYR:OH	11:AL:16:ARG:CG	2.67	0.43
12:AM:24:VAL:HG13	12:AM:34:VAL:HB	2.01	0.43
1:AA:1329:A:P	15:AP:28:ALA:HB3	2.58	0.43
15:AP:71:ARG:C	15:AP:73:GLU:N	2.71	0.43
16:AQ:26:ARG:HE	16:AQ:43:CYS:CB	2.31	0.43
17:AR:54:ARG:CA	17:AR:57:LEU:HD13	2.49	0.43
17:AR:5:LYS:HG3	17:AR:6:GLU:OE2	2.19	0.43
1:AA:392:G:C5'	18:AS:12:LYS:NZ	2.78	0.43
18:AS:74:LEU:HD23	18:AS:74:LEU:HA	1.82	0.43
19:AT:104:LYS:O	19:AT:105:ALA:C	2.57	0.43
19:AT:27:PHE:O	19:AT:27:PHE:CD2	2.72	0.43
1:AA:277:C:P	19:AT:41:LYS:HZ3	2.40	0.43
19:AT:48:GLU:OE1	19:AT:48:GLU:N	2.51	0.43
19:AT:65:ILE:O	19:AT:66:SER:HB3	2.18	0.43
20:AU:45:SER:OG	20:AU:49:LYS:HE3	2.19	0.43
22:AW:12:ALA:O	22:AW:15:ARG:N	2.51	0.43
22:AW:51:GLU:CA	22:AW:54:LYS:HD2	2.42	0.43
22:AW:81:LYS:HB3	22:AW:85:MET:HE1	2.00	0.43
22:AW:82:SER:OG	22:AW:83:ARG:N	2.52	0.43
23:AX:13:ILE:HG22	23:AX:14:TRP:H	1.84	0.43
49:B2:30:ARG:CD	49:B2:30:ARG:N	2.73	0.43
49:B2:39:ASP:CG	49:B2:44:ARG:HD3	2.39	0.43
24:BA:2230:G:H1'	50:B3:58:ARG:CZ	2.47	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:B6:19:ARG:HH11	53:B6:19:ARG:CG	2.31	0.43
54:B7:21:LYS:HZ2	54:B7:21:LYS:CB	2.14	0.43
36:BO:56:SER:OG	54:B7:27:THR:CB	2.66	0.43
55:B8:12:ASP:O	55:B8:13:LYS:HG3	2.18	0.43
55:B8:1:MET:H2	55:B8:33:LYS:HB3	1.83	0.43
24:BA:1020:A:N3	24:BA:1140:C:C2	2.87	0.43
24:BA:1197:G:C6	24:BA:1198:U:C6	3.06	0.43
24:BA:1313:U:C2'	24:BA:1314:C:H5'	2.49	0.43
24:BA:1392:A:C5	24:BA:1393:A:N6	2.87	0.43
24:BA:1492:G:O2'	24:BA:1493:C:C5	2.72	0.43
24:BA:152:G:C2'	24:BA:153:C:O4'	2.60	0.43
24:BA:1542:G:H1'	24:BA:1543:A:C2	2.54	0.43
24:BA:1659:U:H2'	24:BA:1660:C:H6	1.84	0.43
24:BA:1675:C:H2'	24:BA:1676:A:O4'	2.19	0.43
24:BA:1827:C:C2	24:BA:1828:G:H1'	2.54	0.43
24:BA:1860:G:N3	24:BA:1860:G:H2'	2.33	0.43
24:BA:1944:U:O4'	24:BA:1955:U:H6	1.98	0.43
24:BA:1992:G:N7	24:BA:1997:G:N1	2.66	0.43
24:BA:2009:G:H1'	38:BQ:107:ASP:CA	2.46	0.43
24:BA:2014:A:C2	24:BA:2015:A:N1	2.87	0.43
24:BA:2074:U:O2	24:BA:2075:U:C6	2.72	0.43
24:BA:2210:G:O6	27:BD:70:TRP:CH2	2.72	0.43
24:BA:2306:C:OP1	30:BG:136:ARG:CZ	2.67	0.43
24:BA:2311:A:C5'	24:BA:2312:U:H5	2.32	0.43
24:BA:2331:G:N7	24:BA:2332:U:C4	2.87	0.43
24:BA:2334:G:H2'	24:BA:2335:A:OP1	2.19	0.43
24:BA:2472:G:H3'	24:BA:2475:C:N4	2.34	0.43
24:BA:2495:G:H2'	24:BA:2496:C:O4'	2.19	0.43
24:BA:2556:C:C2'	24:BA:2557:G:C5'	2.97	0.43
24:BA:2556:C:H2'	24:BA:2557:G:C5'	2.49	0.43
24:BA:2559:C:C2	24:BA:2560:C:C5	3.07	0.43
24:BA:2597:G:N9	27:BD:242:ARG:NH2	2.62	0.43
24:BA:2639:A:C2'	24:BA:2640:G:O5'	2.66	0.43
24:BA:270(J):G:C5	24:BA:270(K):C:C4	3.06	0.43
24:BA:2813:A:H2'	24:BA:2814:C:O4'	2.18	0.43
24:BA:2876:G:C2	24:BA:2877:G:C8	3.07	0.43
24:BA:28:A:C2	24:BA:29:U:C1'	3.02	0.43
24:BA:295:G:HO2'	24:BA:296:C:H5'	1.80	0.43
24:BA:412:A:C2'	24:BA:413:C:H5'	2.49	0.43
24:BA:509:C:C2'	24:BA:510:C:OP2	2.66	0.43
24:BA:574:C:N1	24:BA:2055:C:C5	2.73	0.43
24:BA:647:G:C2	24:BA:648:G:C5	3.07	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:660:G:C6	24:BA:661:C:N4	2.87	0.43
24:BA:834:C:C2	24:BA:835:A:C8	3.07	0.43
24:BA:83:G:O2'	24:BA:84:A:O4'	2.32	0.43
24:BA:852:G:C6	24:BA:853:G:C5	3.07	0.43
24:BA:894:C:O2'	24:BA:895:U:H5'	2.18	0.43
24:BA:900:A:N7	24:BA:901:A:C8	2.86	0.43
24:BA:922:U:O2	24:BA:923:C:C5	2.72	0.43
24:BA:962:G:C2	24:BA:963:U:N3	2.87	0.43
24:BA:969:U:C2'	24:BA:970:C:C5'	2.94	0.43
24:BA:988:A:O2'	24:BA:1157:G:C5'	2.65	0.43
25:BB:4:C:N4	25:BB:117:G:N1	2.67	0.43
25:BB:18:G:C2	25:BB:19:G:C8	3.07	0.43
25:BB:83:G:N2	25:BB:84:C:C1'	2.81	0.43
25:BB:85:G:C2	25:BB:86:G:C5	3.07	0.43
25:BB:99:A:C2'	25:BB:100:G:H5'	2.49	0.43
27:BD:160:GLY:C	27:BD:196:VAL:CG2	2.87	0.43
24:BA:1775:U:N3	27:BD:208:LYS:HD2	2.34	0.43
27:BD:55:GLY:CA	27:BD:218:ARG:HD3	2.48	0.43
27:BD:21:PHE:N	27:BD:21:PHE:CD2	2.84	0.43
27:BD:245:PRO:HA	27:BD:246:PRO:HD3	1.68	0.43
27:BD:252:TRP:CE3	27:BD:252:TRP:CA	2.98	0.43
27:BD:28:GLU:N	27:BD:28:GLU:OE1	2.52	0.43
27:BD:72:LYS:HZ2	27:BD:75:ILE:CD1	2.32	0.43
27:BD:78:LYS:O	27:BD:95:LEU:CD2	2.66	0.43
28:BE:144:ARG:O	28:BE:144:ARG:CG	2.67	0.43
28:BE:49:LEU:HD13	28:BE:50:GLY:N	2.34	0.43
28:BE:71:GLY:C	28:BE:72:VAL:HG13	2.39	0.43
29:BF:9:ILE:HA	29:BF:10:PRO:HD3	1.76	0.43
30:BG:100:TRP:O	30:BG:101:ILE:C	2.55	0.43
30:BG:165:THR:O	30:BG:168:GLU:HB2	2.19	0.43
31:BH:24:VAL:CG2	31:BH:35:VAL:HG23	2.35	0.43
24:BA:558:G:C5'	34:BM:109:LYS:HG2	2.47	0.43
34:BM:107:LEU:HD13	34:BM:117:PHE:CG	2.53	0.43
34:BM:87:LEU:HD21	34:BM:88:GLU:OE1	2.18	0.43
35:BN:10:VAL:HG13	35:BN:14:THR:CG2	2.48	0.43
35:BN:3:GLN:OE1	35:BN:3:GLN:C	2.56	0.43
35:BN:42:SER:OG	35:BN:43:VAL:N	2.51	0.43
24:BA:1190:G:OP2	36:BO:29:LYS:HD3	2.18	0.43
36:BO:57:THR:HG22	36:BO:58:THR:N	2.34	0.43
36:BO:96:THR:OG1	36:BO:102:ARG:CD	2.65	0.43
38:BQ:35:THR:CG2	38:BQ:113:LEU:HD23	2.49	0.43
38:BQ:73:VAL:CG2	38:BQ:74:LYS:H	2.25	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BQ:85:PRO:C	38:BQ:87:TYR:N	2.72	0.43
39:BR:14:VAL:HG12	39:BR:15:ARG:H	1.81	0.43
39:BR:28:VAL:HA	39:BR:37:ALA:CB	2.46	0.43
39:BR:47:THR:O	39:BR:48:LEU:O	2.37	0.43
39:BR:77:ALA:O	39:BR:80:LEU:N	2.52	0.43
40:BS:67:SER:HA	40:BS:75:ILE:HA	2.01	0.43
41:BT:74:LEU:HD23	41:BT:75:ASN:H	1.83	0.43
43:BV:8:ARG:HA	43:BV:102:HIS:CD2	2.54	0.43
43:BV:24:ILE:HG22	43:BV:32:ALA:CA	2.49	0.43
44:BW:14:SER:O	44:BW:17:ALA:HB3	2.19	0.43
44:BW:18:TYR:OH	44:BW:96:ILE:CD1	2.67	0.43
45:BX:97:ARG:O	45:BX:98:VAL:CG2	2.66	0.43
46:BY:30:ASN:HA	46:BY:89:PHE:CD2	2.54	0.43
47:BZ:44:ARG:HG2	47:BZ:45:PHE:CE2	2.54	0.43
47:BZ:44:ARG:HE	47:BZ:77:ARG:NE	2.17	0.43
32:BK:102:SER:CA	32:BK:108:THR:HG22	2.48	0.43
32:BK:113:ARG:CZ	32:BK:132:PRO:CB	2.94	0.43
3:AD:54:U:OP2	3:AD:55:U:C5	2.72	0.43
3:AD:55:U:H2'	3:AD:57:G:OP2	2.18	0.43
24:BA:2149:G:N2	24:BA:2150:U:H1'	2.34	0.43
26:BC:120:MET:CE	26:BC:145:VAL:HG22	2.49	0.43
26:BC:182:PRO:HG2	26:BC:183:GLU:OE1	2.17	0.43
24:BA:2124:G:N3	26:BC:217:THR:HA	2.34	0.43
26:BC:75:LEU:HD22	26:BC:110:PHE:CE1	2.51	0.43
26:BC:81:GLU:OE2	26:BC:82:LYS:CD	2.67	0.43
24:BA:55:G:C2	24:BA:56:A:C5	3.07	0.43
1:AA:30:U:H2'	1:AA:31:G:OP1	2.19	0.43
1:AA:1035:A:H2'	1:AA:1036:G:C5'	2.43	0.42
1:AA:1067:A:N3	1:AA:1068:G:C1'	2.83	0.42
1:AA:1087:G:H2'	1:AA:1088:G:H8	1.84	0.42
1:AA:1130:A:H5''	1:AA:1131:G:OP2	2.19	0.42
1:AA:1161:C:H2'	1:AA:1162:C:C5	2.54	0.42
1:AA:1253:G:N2	1:AA:1285:A:N6	2.66	0.42
1:AA:1360:A:N1	1:AA:1361:G:N1	2.67	0.42
1:AA:1402:C:O2'	1:AA:1403:C:H5'	2.19	0.42
1:AA:1414:U:C2'	1:AA:1415:G:H8	2.23	0.42
1:AA:1431:C:H2'	1:AA:1432:G:C5'	2.49	0.42
1:AA:1443:G:H4'	1:AA:1446:A:C4'	2.42	0.42
1:AA:151:A:N6	1:AA:171:A:C6	2.87	0.42
1:AA:183:G:N3	1:AA:223:U:O2'	2.51	0.42
1:AA:246:A:H1'	1:AA:247:G:C1'	2.48	0.42
1:AA:253:U:H2'	1:AA:254:G:C8	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:266:G:H2'	1:AA:267:C:OP2	2.19	0.42
1:AA:307:C:C6	1:AA:307:C:O5'	2.72	0.42
1:AA:383:A:H8	1:AA:383:A:OP2	2.01	0.42
1:AA:519:C:C2'	1:AA:520:A:C5'	2.90	0.42
1:AA:539:A:P	14:AO:114:LYS:NZ	2.91	0.42
1:AA:558:G:O5'	1:AA:559:A:O3'	2.37	0.42
1:AA:584:G:C2	1:AA:585:G:C8	3.07	0.42
1:AA:687:A:C2	1:AA:704:A:C5	3.07	0.42
1:AA:84:U:C2'	1:AA:85:U:O4'	2.62	0.42
1:AA:892:A:C2	1:AA:907:A:C4	3.07	0.42
1:AA:901:A:C2'	1:AA:902:G:O5'	2.65	0.42
1:AA:908:A:N3	1:AA:909:A:N7	2.67	0.42
1:AA:971:G:H2'	1:AA:1365:G:O2'	2.19	0.42
1:AA:973:G:H3'	1:AA:974:A:H5''	2.01	0.42
3:AC:18:G:OP1	3:AC:18:G:C8	2.71	0.42
3:AC:34:G:C6	3:AC:35:A:N7	2.87	0.42
3:AD:34:G:N3	3:AD:35:A:H5''	2.34	0.42
4:AE:120:ALA:O	4:AE:121:LEU:C	2.56	0.42
4:AE:77:ALA:CB	4:AE:211:ILE:HD13	2.44	0.42
4:AE:55:PHE:HA	4:AE:58:ILE:HG13	2.01	0.42
4:AE:8:LYS:O	4:AE:9:GLU:CB	2.67	0.42
5:AF:112:SER:OG	5:AF:115:LEU:CG	2.67	0.42
5:AF:42:LEU:O	5:AF:45:LYS:HB3	2.19	0.42
6:AG:69:GLY:C	6:AG:70:ILE:HG12	2.39	0.42
7:AH:82:VAL:HG13	7:AH:134:ALA:HB1	2.00	0.42
7:AH:141:GLN:O	7:AH:142:LEU:CB	2.66	0.42
7:AH:65:ASN:HD21	7:AH:136:MET:CE	2.32	0.42
7:AH:71:LEU:CG	7:AH:72:GLN:N	2.82	0.42
8:AI:2:ARG:HH11	8:AI:69:GLU:HB3	1.84	0.42
9:AJ:112:PRO:O	9:AJ:113:GLU:HG2	2.20	0.42
9:AJ:50:ILE:CD1	9:AJ:58:PRO:CB	2.96	0.42
9:AJ:76:ARG:HH12	9:AJ:89:MET:HG3	1.82	0.42
1:AA:642:A:C5	10:AK:115:SER:HA	2.54	0.42
10:AK:37:ARG:O	10:AK:38:ILE:C	2.57	0.42
10:AK:40:ALA:HB2	10:AK:45:ILE:CG2	2.49	0.42
10:AK:45:ILE:HD12	10:AK:61:VAL:CG2	2.48	0.42
10:AK:83:ILE:HG23	10:AK:83:ILE:O	2.18	0.42
11:AL:10:ARG:HH21	11:AL:75:ASP:CG	2.22	0.42
11:AL:33:PHE:HB3	11:AL:34:ASN:H	1.71	0.42
11:AL:53:VAL:HG12	11:AL:53:VAL:O	2.18	0.42
11:AL:66:ARG:HB3	11:AL:66:ARG:HE	1.70	0.42
11:AL:83:ARG:HA	11:AL:86:VAL:HG23	2.00	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AM:48:THR:OG1	12:AM:62:HIS:CD2	2.72	0.42
13:AN:99:GLN:CB	13:AN:105:VAL:HG11	2.39	0.42
14:AO:9:GLN:O	14:AO:12:ARG:N	2.50	0.42
1:AA:965:A:C2	15:AP:124:PRO:HB3	2.54	0.42
15:AP:13:LYS:HA	15:AP:44:ARG:HE	1.80	0.42
15:AP:4:ILE:O	15:AP:8:GLU:HB2	2.19	0.42
1:AA:980:C:H1'	16:AQ:19:ARG:HA	2.01	0.42
16:AQ:39:LEU:HB2	16:AQ:44:LEU:HB2	2.01	0.42
16:AQ:4:LYS:HA	16:AQ:7:ILE:CD1	2.49	0.42
17:AR:63:ARG:HG3	17:AR:64:ARG:H	1.83	0.42
17:AR:69:TYR:CZ	17:AR:73:GLU:HG3	2.54	0.42
18:AS:52:ASP:OD1	18:AS:55:ARG:HG2	2.18	0.42
18:AS:55:ARG:HH21	18:AS:58:TYR:CB	2.32	0.42
18:AS:58:TYR:O	18:AS:59:TRP:C	2.57	0.42
19:AT:82:MET:C	19:AT:85:VAL:HB	2.36	0.42
20:AU:71:LYS:O	20:AU:75:ILE:HG13	2.19	0.42
22:AW:51:GLU:HA	22:AW:54:LYS:HE3	1.97	0.42
22:AW:75:ASN:O	22:AW:78:ALA:CB	2.60	0.42
48:B1:20:VAL:HB	48:B1:55:LEU:HB3	2.01	0.42
51:B4:45:VAL:HB	51:B4:50:GLY:C	2.38	0.42
51:B4:8:LYS:HB2	51:B4:9:LYS:HE2	2.00	0.42
52:B5:45:LYS:O	52:B5:46:HIS:CB	2.66	0.42
53:B6:28:ARG:H	53:B6:28:ARG:HG3	1.53	0.42
53:B6:5:TRP:CZ3	53:B6:7:PRO:HB3	2.53	0.42
54:B7:29:LYS:HE2	54:B7:36:LYS:HZ3	1.84	0.42
55:B8:22:ARG:HD3	55:B8:24:TYR:CE1	2.53	0.42
24:BA:1023:U:H2'	24:BA:1024:G:C4'	2.49	0.42
24:BA:1044:G:N3	24:BA:1111:A:H1'	2.34	0.42
24:BA:1155:A:C2	24:BA:1157:G:C1'	2.97	0.42
24:BA:1179:C:H3'	24:BA:1179:C:OP2	2.19	0.42
24:BA:1212:G:N7	24:BA:1235:G:N1	2.67	0.42
24:BA:1314:C:N4	24:BA:1315:C:N4	2.67	0.42
24:BA:1346:G:C6	24:BA:1347:G:C6	3.07	0.42
24:BA:1422:G:C2	24:BA:1423:G:C4	3.07	0.42
24:BA:1449:A:C8	24:BA:1529:A:C2	3.08	0.42
24:BA:1473:G:O2'	24:BA:1474:C:O4'	2.35	0.42
24:BA:1475:G:O6	24:BA:1517:G:C6	2.71	0.42
24:BA:1534:G:O2'	24:BA:1535:U:C5	2.69	0.42
24:BA:1535:U:O2	24:BA:1536:A:H1'	2.19	0.42
24:BA:1620:G:C2'	24:BA:1621:U:O5'	2.67	0.42
24:BA:1656:C:H2'	24:BA:1656:C:O2	2.19	0.42
24:BA:1700:A:H2'	24:BA:1701:A:C4'	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1780:A:P	24:BA:1782:C:P	3.17	0.42
24:BA:1809:A:H61	50:B3:3:GLU:CB	2.31	0.42
24:BA:1832:C:C5	24:BA:1833:U:C5	3.07	0.42
24:BA:1842:G:C6	24:BA:1901:A:C6	3.07	0.42
24:BA:1915:U:C2'	24:BA:1916:A:OP2	2.67	0.42
24:BA:1977:A:C2	24:BA:1978:A:H1'	2.54	0.42
24:BA:223:A:N6	24:BA:374:A:O2'	2.51	0.42
24:BA:2311:A:C2	30:BG:45:GLU:OE1	2.71	0.42
24:BA:2313:C:C2	24:BA:2314:C:C5	3.07	0.42
24:BA:2423:U:H1'	24:BA:2425:A:N9	2.34	0.42
24:BA:2435:A:C2	24:BA:2436:G:C4	3.07	0.42
24:BA:2460:U:H2'	24:BA:2461:C:C5	2.54	0.42
24:BA:2483:C:C2'	24:BA:2483:C:O2	2.67	0.42
24:BA:2563:U:O2	24:BA:2565:A:O5'	2.36	0.42
24:BA:2580:U:H2'	24:BA:2581:G:C8	2.54	0.42
24:BA:2585:U:H2'	24:BA:2586:C:OP2	2.19	0.42
24:BA:2616:C:H3'	24:BA:2617:C:C5	2.54	0.42
24:BA:2617:C:C2'	24:BA:2618:G:O5'	2.66	0.42
24:BA:2653:U:H3	24:BA:2654:A:N6	2.15	0.42
24:BA:2704:C:H2'	24:BA:2705:A:C1'	2.49	0.42
24:BA:2689:U:C4	24:BA:2713:A:N6	2.87	0.42
24:BA:2715:C:N3	24:BA:2716:U:C5	2.87	0.42
24:BA:297:C:H5''	45:BX:83:THR:CB	2.46	0.42
24:BA:457:A:H1'	24:BA:459:U:C4	2.53	0.42
24:BA:471:A:C5	24:BA:472:A:N7	2.87	0.42
24:BA:475:U:O2	24:BA:475:U:H2'	2.19	0.42
24:BA:552:G:O2'	24:BA:553:U:C5'	2.65	0.42
24:BA:565:C:H1'	24:BA:577:G:N2	2.34	0.42
24:BA:61:G:C6	24:BA:62:C:N3	2.87	0.42
24:BA:629:G:N2	24:BA:640:C:OP1	2.49	0.42
24:BA:775:G:N2	24:BA:787:U:O3'	2.51	0.42
24:BA:819:A:H2'	24:BA:820:A:C1'	2.49	0.42
24:BA:822:U:O2	24:BA:823:G:C8	2.72	0.42
24:BA:849:A:C4	24:BA:850:C:C5	3.07	0.42
24:BA:933:A:H2'	24:BA:934:G:O5'	2.19	0.42
24:BA:974:G:HO2'	24:BA:1186:G:C1'	2.31	0.42
25:BB:59:A:C3'	25:BB:60:C:H5'	2.48	0.42
27:BD:101:GLU:OE1	27:BD:102:LYS:N	2.52	0.42
24:BA:1820:U:C5	27:BD:159:ALA:C	2.89	0.42
24:BA:1820:U:C1'	27:BD:202:LYS:HG2	2.48	0.42
27:BD:23:GLU:CB	27:BD:205:VAL:H	2.32	0.42
27:BD:9:TYR:CG	27:BD:25:THR:HG23	2.53	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:260:ARG:NH1	27:BD:260:ARG:CG	2.66	0.42
27:BD:5:LYS:O	27:BD:27:THR:HG23	2.19	0.42
27:BD:85:ASP:CG	27:BD:87:ASN:ND2	2.72	0.42
28:BE:37:ARG:H	28:BE:40:GLU:HB2	1.83	0.42
28:BE:49:LEU:HD12	28:BE:50:GLY:N	2.34	0.42
29:BF:133:ASN:HA	29:BF:133:ASN:HD22	1.45	0.42
29:BF:53:THR:O	29:BF:56:GLU:HG3	2.19	0.42
30:BG:102:PHE:C	30:BG:104:GLU:N	2.68	0.42
30:BG:22:ARG:HG3	30:BG:23:PHE:HD2	1.84	0.42
31:BH:164:TYR:CD2	31:BH:167:GLU:HG2	2.53	0.42
31:BH:67:LEU:O	31:BH:69:ARG:N	2.52	0.42
31:BH:98:LEU:HD22	31:BH:100:GLY:C	2.39	0.42
32:BK:2:LYS:HZ2	32:BK:44:LEU:HD11	1.82	0.42
33:BL:8:VAL:CG1	33:BL:27:LEU:HD23	2.49	0.42
35:BN:110:GLY:O	35:BN:111:PHE:HB3	2.19	0.42
35:BN:112:MET:O	35:BN:115:VAL:CA	2.67	0.42
35:BN:113:LYS:O	35:BN:114:ILE:C	2.58	0.42
35:BN:11:ALA:C	35:BN:97:ARG:HH22	2.22	0.42
35:BN:68:GLU:OE2	35:BN:76:ALA:CB	2.42	0.42
36:BO:114:ILE:HD12	36:BO:123:LEU:HG	1.97	0.42
36:BO:23:PRO:CB	36:BO:28:GLY:CA	2.93	0.42
36:BO:84:ASN:C	36:BO:85:LEU:HD12	2.39	0.42
37:BP:115:MET:C	37:BP:119:ARG:HG3	2.39	0.42
37:BP:16:ARG:HG3	37:BP:72:LYS:CG	2.48	0.42
37:BP:65:PHE:HA	37:BP:65:PHE:HD2	1.69	0.42
37:BP:6:ARG:HB2	37:BP:44:ALA:HB3	1.94	0.42
37:BP:69:PHE:C	37:BP:71:ASP:H	2.21	0.42
38:BQ:4:LEU:O	38:BQ:5:LYS:C	2.58	0.42
38:BQ:57:ARG:CZ	38:BQ:62:ALA:HB2	2.45	0.42
38:BQ:77:ARG:HH11	38:BQ:77:ARG:CG	2.29	0.42
38:BQ:98:LEU:CD2	38:BQ:99:LYS:NZ	2.77	0.42
40:BS:51:ARG:HH12	40:BS:114:LEU:HD13	1.80	0.42
41:BT:99:ALA:CA	41:BT:106:PHE:CG	2.95	0.42
41:BT:43:GLY:O	41:BT:44:ASN:C	2.55	0.42
41:BT:45:TYR:O	41:BT:47:TYR:N	2.52	0.42
42:BU:89:GLN:HG2	42:BU:91:TYR:HD1	1.84	0.42
42:BU:9:GLY:O	42:BU:10:LYS:CB	2.57	0.42
43:BV:6:ILE:CA	43:BV:103:ILE:O	2.67	0.42
43:BV:24:ILE:HG23	43:BV:35:ILE:CG2	2.49	0.42
43:BV:58:ALA:HB1	43:BV:69:LEU:HD21	2.01	0.42
43:BV:70:TYR:OH	43:BV:72:LYS:HB2	2.18	0.42
44:BW:18:TYR:HD1	44:BW:21:PHE:HE1	1.66	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BW:33:LYS:HZ3	44:BW:33:LYS:HB2	1.84	0.42
47:BZ:27:GLU:N	47:BZ:69:PHE:CE1	2.86	0.42
24:BA:2128:C:N4	24:BA:2129:C:C5	2.87	0.42
24:BA:2160:G:N2	24:BA:2161:C:O2	2.52	0.42
26:BC:176:GLY:CA	26:BC:185:LEU:HD22	2.49	0.42
24:BA:1589:C:C2	24:BA:1590:U:C6	3.07	0.42
3:AD:40:C:C2'	3:AD:40:C:O2	2.67	0.42
39:BR:56:LEU:HB3	39:BR:59:LYS:HZ3	1.83	0.42
24:BA:491:G:H2'	24:BA:492:A:C1'	2.49	0.42
3:AB:1:G:N3	3:AB:1:G:C2'	2.81	0.42
12:AM:13:HIS:ND1	12:AM:13:HIS:O	2.52	0.42
1:AA:1000:A:H2'	1:AA:1001:G:H5'	2.00	0.42
1:AA:1095:U:C2	1:AA:1096:C:C5	3.07	0.42
1:AA:1105:A:C2	1:AA:1106:G:C8	3.07	0.42
1:AA:111:G:C5'	1:AA:112:G:OP2	2.67	0.42
1:AA:1189:C:H2'	1:AA:1190:G:H5'	2.01	0.42
1:AA:120:A:C6	1:AA:122:G:C2	3.08	0.42
1:AA:1250:A:H2'	1:AA:1251:A:O4'	2.19	0.42
1:AA:1285:A:O2'	1:AA:1286:A:P	2.77	0.42
1:AA:1291:G:N1	1:AA:1292:U:C4	2.87	0.42
1:AA:1333:A:H2'	1:AA:1334:G:H8	1.80	0.42
1:AA:945:G:C2	1:AA:1337:G:N3	2.86	0.42
1:AA:174:C:OP1	1:AA:197:A:H2	2.03	0.42
1:AA:51:A:N1	1:AA:353:A:C2	2.87	0.42
1:AA:383:A:C2'	1:AA:384:G:H5'	2.49	0.42
1:AA:390:C:H2'	1:AA:391:G:O5'	2.19	0.42
1:AA:438:G:C2	1:AA:495:A:C8	3.07	0.42
1:AA:503:C:C4	1:AA:504:C:C5	3.07	0.42
1:AA:503:C:C2	1:AA:504:C:C6	3.07	0.42
1:AA:519:C:C5	1:AA:520:A:C2	3.07	0.42
1:AA:580:U:O2	1:AA:580:U:H2'	2.19	0.42
1:AA:60:A:OP2	1:AA:387:U:H4'	2.19	0.42
1:AA:65:U:C6	1:AA:381:C:C5	3.07	0.42
1:AA:721:G:OP1	1:AA:721:G:H8	2.02	0.42
1:AA:767:A:C2'	1:AA:768:A:H5'	2.49	0.42
1:AA:781:A:C2	1:AA:782:A:H1'	2.55	0.42
1:AA:880:C:H2'	1:AA:881:G:O5'	2.19	0.42
1:AA:900:A:C4	1:AA:901:A:N7	2.87	0.42
1:AA:89:U:C4	1:AA:90:C:C5	3.07	0.42
1:AA:953:G:O2'	1:AA:954:G:C5'	2.67	0.42
1:AA:958:A:O2'	1:AA:959:A:H5'	2.20	0.42
1:AA:962:C:C4	1:AA:963:G:C5	3.07	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:975:A:H4'	1:AA:976:G:C5'	2.50	0.42
1:AA:975:A:H4'	1:AA:976:G:H5'	2.00	0.42
3:AB:14:A:C6	3:AB:22:G:O2'	2.70	0.42
3:AB:24:G:C5	3:AB:25:C:C5	3.06	0.42
3:AB:52:G:O2'	24:BA:2470:G:C4'	2.67	0.42
3:AB:75:C:N4	24:BA:2553:G:H1	2.15	0.42
3:AC:10:G:H2'	3:AC:11:C:H6	1.84	0.42
4:AE:136:VAL:C	4:AE:139:LYS:HG2	2.40	0.42
4:AE:95:GLN:HA	4:AE:95:GLN:OE1	2.19	0.42
5:AF:113:ALA:HB3	5:AF:114:PRO:HD3	2.01	0.42
5:AF:175:LEU:O	5:AF:176:HIS:O	2.37	0.42
5:AF:92:ALA:O	5:AF:96:GLY:N	2.47	0.42
6:AG:120:LEU:O	6:AG:121:VAL:C	2.57	0.42
6:AG:128:VAL:CG2	6:AG:133:VAL:N	2.82	0.42
6:AG:170:VAL:HG11	6:AG:174:LEU:CD1	2.49	0.42
6:AG:13:ARG:N	6:AG:32:ALA:HB2	2.34	0.42
6:AG:3:ARG:HG3	6:AG:118:ARG:CZ	2.49	0.42
6:AG:61:LYS:HZ1	6:AG:72:GLU:CD	2.22	0.42
7:AH:50:GLU:O	7:AH:51:VAL:C	2.57	0.42
7:AH:95:ALA:H	7:AH:96:PRO:CD	2.31	0.42
1:AA:1346:A:N1	9:AJ:10:ARG:HD3	2.31	0.42
10:AK:101:PRO:O	10:AK:102:ARG:CG	2.67	0.42
10:AK:121:ASP:HB3	10:AK:122:ARG:H	1.39	0.42
13:AN:31:THR:CG2	13:AN:32:ILE:N	2.81	0.42
13:AN:44:SER:O	13:AN:47:VAL:HB	2.20	0.42
9:AJ:150:ALA:CA	13:AN:59:TYR:CG	2.99	0.42
13:AN:84:VAL:HG21	20:AU:88:LYS:CE	2.48	0.42
14:AO:111:LYS:O	14:AO:112:ASP:C	2.57	0.42
15:AP:27:LYS:CD	15:AP:31:LYS:NZ	2.75	0.42
16:AQ:12:ARG:HD3	16:AQ:12:ARG:HA	1.83	0.42
16:AQ:49:HIS:O	16:AQ:50:LYS:C	2.58	0.42
1:AA:668:G:C4'	17:AR:48:LYS:O	2.60	0.42
19:AT:22:LEU:HD12	19:AT:23:VAL:N	2.34	0.42
19:AT:83:ASP:O	19:AT:86:GLU:HB2	2.18	0.42
19:AT:97:SER:O	19:AT:98:LEU:CD2	2.61	0.42
20:AU:36:ASN:HD22	20:AU:36:ASN:HA	1.60	0.42
21:AV:71:LEU:O	21:AV:72:GLY:C	2.54	0.42
22:AW:75:ASN:HB2	22:AW:78:ALA:HB3	2.01	0.42
48:B1:39:LEU:N	48:B1:39:LEU:HD23	2.34	0.42
49:B2:41:PRO:CA	49:B2:44:ARG:HH11	2.17	0.42
50:B3:14:ILE:HG23	50:B3:16:CYS:SG	2.59	0.42
24:BA:1011:G:O6	24:BA:1151:G:C6	2.71	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1063:G:C8	24:BA:1064:C:C5	3.07	0.42
24:BA:1064:C:H3'	24:BA:1065:U:H5	1.83	0.42
24:BA:1081:U:H2'	24:BA:1082:U:C6	2.53	0.42
24:BA:1106:G:C6	24:BA:1107:G:N1	2.87	0.42
24:BA:1223:C:N4	42:BU:88:ARG:HH22	2.17	0.42
24:BA:1223:C:O2	24:BA:1225:C:C5'	2.66	0.42
24:BA:1275:A:C2'	24:BA:1276:A:O5'	2.68	0.42
24:BA:1300:U:P	24:BA:1300:U:C6	3.12	0.42
24:BA:1343:G:C6	24:BA:1344:G:C8	3.07	0.42
24:BA:1366:A:H5''	50:B3:1:MET:N	2.31	0.42
24:BA:1389:G:H5'	24:BA:1525:G:H5'	1.99	0.42
24:BA:1406:U:O2	24:BA:1407:C:C6	2.72	0.42
24:BA:1455:G:C6	24:BA:1456:G:C8	3.07	0.42
24:BA:1545:A:H3'	24:BA:1545(A):A:C8	2.54	0.42
24:BA:1466:G:O2'	24:BA:1546:C:H4'	2.18	0.42
24:BA:1615:C:C4	24:BA:1617:C:H1'	2.53	0.42
24:BA:1272:A:C6	24:BA:1618:A:N3	2.88	0.42
24:BA:162:U:OP2	24:BA:171:G:C2	2.72	0.42
24:BA:1668:A:H2	24:BA:1994:C:C6	2.38	0.42
24:BA:1682:G:H3'	24:BA:1683:C:H5	1.83	0.42
24:BA:1696:G:C6	24:BA:1697:G:N1	2.86	0.42
24:BA:1742:C:H6	24:BA:1742:C:OP2	2.01	0.42
24:BA:1753:G:N1	24:BA:1756:G:C2	2.87	0.42
24:BA:1916:A:OP2	24:BA:1916:A:C4	2.72	0.42
24:BA:1917:U:H5	24:BA:1918:A:C5	2.38	0.42
24:BA:2088:G:C6	24:BA:2089:U:N3	2.87	0.42
24:BA:2263:C:O2	24:BA:2263:C:H2'	2.18	0.42
24:BA:2284:C:C2	24:BA:2285:C:C5	3.07	0.42
24:BA:2357:U:H2'	24:BA:2358:G:O5'	2.18	0.42
24:BA:2353:G:C6	24:BA:2365:G:C2	3.08	0.42
24:BA:2345:G:N3	24:BA:2381:C:H2'	2.34	0.42
24:BA:2491:U:C5	24:BA:2492:U:C5'	3.00	0.42
24:BA:2518:A:H5''	24:BA:2519:U:OP2	2.19	0.42
24:BA:2531:A:O2'	24:BA:2532:G:C5'	2.66	0.42
24:BA:253:C:O2	24:BA:253:C:C2'	2.67	0.42
24:BA:2543:G:C6	24:BA:2544:G:N1	2.88	0.42
24:BA:2553:G:H8	24:BA:2582:G:H2'	1.84	0.42
24:BA:2626:C:O5'	24:BA:2626:C:C6	2.71	0.42
24:BA:2666:C:C3'	24:BA:2667:C:H5'	2.48	0.42
24:BA:2718:G:H2'	24:BA:2719:G:O5'	2.19	0.42
24:BA:2737:G:C4	24:BA:2738:A:N7	2.87	0.42
24:BA:2781:A:H2'	24:BA:2782:G:C3'	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2782:G:P	24:BA:2782:G:O4'	2.77	0.42
24:BA:2792:G:N2	24:BA:2793:G:C5	2.87	0.42
24:BA:2848:G:N1	24:BA:2867:G:N3	2.66	0.42
24:BA:2853:C:C2	24:BA:2854:G:C8	3.07	0.42
24:BA:300:A:H3'	24:BA:300:A:C8	2.53	0.42
24:BA:303:U:C2'	24:BA:304:G:C5'	2.97	0.42
24:BA:450:G:O6	24:BA:453:C:O5'	2.37	0.42
24:BA:582:G:N2	24:BA:1259:G:C4	2.87	0.42
24:BA:633:A:H5''	24:BA:634:C:OP2	2.20	0.42
24:BA:693:C:N4	24:BA:770:G:O6	2.52	0.42
24:BA:824:A:C3'	24:BA:825:C:C6	3.02	0.42
24:BA:861:A:C5	24:BA:862:G:C8	3.07	0.42
24:BA:861:A:N6	24:BA:916:G:N2	2.32	0.42
25:BB:38:C:O5'	25:BB:38:C:C6	2.72	0.42
25:BB:85:G:C4	25:BB:86:G:C8	3.08	0.42
27:BD:105:ILE:CG1	27:BD:106:ILE:HG12	2.22	0.42
27:BD:10:THR:N	27:BD:11:PRO:HD2	2.34	0.42
24:BA:1820:U:C1'	27:BD:202:LYS:CG	2.97	0.42
27:BD:6:PHE:O	27:BD:27:THR:CA	2.44	0.42
28:BE:22:PRO:HA	28:BE:185:LYS:N	2.34	0.42
28:BE:34:VAL:HG11	28:BE:36:ARG:CZ	2.49	0.42
24:BA:600:G:H4'	29:BF:105:VAL:CG1	2.48	0.42
29:BF:173:VAL:HG22	29:BF:174:VAL:N	2.33	0.42
30:BG:33:ARG:CB	30:BG:33:ARG:HH21	2.32	0.42
30:BG:38:VAL:C	30:BG:39:ILE:HD12	2.38	0.42
30:BG:53:LEU:O	30:BG:68:PRO:CB	2.67	0.42
30:BG:80:PHE:CG	30:BG:81:LYS:N	2.87	0.42
30:BG:93:THR:O	30:BG:94:LEU:C	2.58	0.42
31:BH:4:ILE:CD1	31:BH:4:ILE:N	2.80	0.42
31:BH:8:PRO:CA	31:BH:51:ARG:CZ	2.97	0.42
32:BK:41:GLU:O	32:BK:45:LYS:CB	2.68	0.42
32:BK:9:LEU:O	32:BK:10:GLU:CB	2.63	0.42
33:BL:27:LEU:HD21	33:BL:57:ILE:HD11	2.01	0.42
33:BL:55:VAL:HG22	33:BL:69:THR:CG2	2.46	0.42
34:BM:111:PRO:C	34:BM:114:ARG:HB3	2.35	0.42
34:BM:35:ARG:NH1	34:BM:48:MET:CE	2.78	0.42
35:BN:53:LYS:HG3	35:BN:55:GLY:N	2.34	0.42
36:BO:78:PRO:CG	36:BO:115:LEU:O	2.67	0.42
36:BO:130:PHE:C	36:BO:134:ALA:HB3	2.39	0.42
37:BP:125:LEU:HB3	37:BP:126:PRO:CD	2.50	0.42
37:BP:37:LEU:HB2	37:BP:129:THR:HA	2.01	0.42
37:BP:37:LEU:HB3	37:BP:38:GLU:OE2	2.18	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BQ:25:ALA:O	38:BQ:29:LEU:CG	2.36	0.42
39:BR:72:ALA:O	39:BR:73:LEU:C	2.57	0.42
40:BS:26:ASP:CA	40:BS:100:TYR:CE2	3.00	0.42
40:BS:20:PRO:HA	40:BS:22:PHE:CE1	2.54	0.42
41:BT:16:LYS:HG2	41:BT:20:LEU:CD2	2.46	0.42
41:BT:28:ARG:HA	41:BT:31:SER:OG	2.19	0.42
41:BT:88:ILE:HB	42:BU:52:VAL:HA	2.01	0.42
42:BU:3:ALA:CB	42:BU:44:LYS:CE	2.97	0.42
24:BA:565:C:OP2	42:BU:82:ARG:HA	2.18	0.42
42:BU:93:GLU:OE2	42:BU:95:LEU:CD2	2.66	0.42
43:BV:20:VAL:HG21	43:BV:47:VAL:HG11	2.01	0.42
43:BV:22:ASP:HA	43:BV:75:TYR:CE2	2.54	0.42
44:BW:18:TYR:HA	44:BW:21:PHE:CE1	2.53	0.42
45:BX:12:THR:HA	45:BX:73:ARG:NH2	2.33	0.42
45:BX:29:GLU:CD	45:BX:32:PRO:HG2	2.37	0.42
45:BX:67:LEU:HD12	45:BX:71:LYS:NZ	2.34	0.42
45:BX:8:LYS:HE3	45:BX:28:LYS:HD2	2.00	0.42
45:BX:98:VAL:C	45:BX:99:CYS:SG	2.96	0.42
46:BY:102:LEU:O	46:BY:123:ASP:O	2.36	0.42
46:BY:1:MET:HE2	46:BY:59:LEU:HD22	2.01	0.42
46:BY:17:ALA:O	46:BY:20:ARG:CB	2.68	0.42
46:BY:55:HIS:ND1	46:BY:55:HIS:N	2.67	0.42
47:BZ:74:ARG:C	47:BZ:76:GLY:N	2.71	0.42
32:BK:93:THR:HG21	32:BK:95:LYS:HB3	1.98	0.42
26:BC:99:ILE:O	26:BC:103:ILE:HG13	2.19	0.42
26:BC:156:ILE:HA	26:BC:160:ARG:CG	2.49	0.42
26:BC:68:LEU:HD22	26:BC:157:LYS:CA	2.46	0.42
1:AA:342:C:C2	1:AA:348:G:C2	3.06	0.42
24:BA:1483:G:N2	24:BA:1507:A:O2'	2.53	0.42
24:BA:1587:A:H2'	24:BA:1588:C:H6	1.80	0.42
39:BR:33:LYS:CD	39:BR:54:LEU:HD21	2.49	0.42
24:BA:1767:C:N4	24:BA:1768:U:C4	2.87	0.42
16:AQ:9:LYS:HD3	16:AQ:9:LYS:C	2.39	0.42
1:AA:1080:A:N7	1:AA:1081:G:C1'	2.82	0.42
1:AA:1155:G:C6	1:AA:1156:G:C6	3.07	0.42
1:AA:1223:C:C6	1:AA:1223:C:H3'	2.53	0.42
1:AA:1317:C:OP1	1:AA:1317:C:C6	2.72	0.42
1:AA:1339:A:C3'	1:AA:1340:A:H5'	2.49	0.42
1:AA:1341:U:H5'	3:AC:32:U:H5'	1.99	0.42
1:AA:1424:C:H2'	1:AA:1425:U:O5'	2.18	0.42
1:AA:1433:A:N1	1:AA:1434:A:N3	2.67	0.42
1:AA:194:C:O2'	22:AW:68:LYS:NZ	2.38	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:217:C:C4	1:AA:218:C:C5	3.07	0.42
1:AA:40:C:H2'	1:AA:41:G:O5'	2.20	0.42
1:AA:455:C:O5'	1:AA:455:C:C6	2.73	0.42
1:AA:738:C:C4	1:AA:739:C:N4	2.88	0.42
1:AA:843:U:C3'	1:AA:848:C:C5'	2.97	0.42
1:AA:855:G:H2'	1:AA:856:C:C5'	2.49	0.42
1:AA:872:A:C2	1:AA:874:G:N7	2.87	0.42
1:AA:872:A:N1	1:AA:874:G:C5	2.87	0.42
1:AA:91:C:N3	1:AA:92:G:N7	2.67	0.42
1:AA:921:U:H2'	1:AA:922:G:H8	1.83	0.42
1:AA:956:U:OP2	1:AA:956:U:C6	2.72	0.42
1:AA:977:A:C4'	1:AA:982:U:O4	2.66	0.42
3:AC:18:G:C6	3:AC:57:G:C6	3.08	0.42
4:AE:135:GLN:O	4:AE:139:LYS:HB3	2.19	0.42
4:AE:167:PRO:C	4:AE:169:LYS:N	2.72	0.42
4:AE:88:ALA:O	4:AE:222:ILE:HD13	2.19	0.42
4:AE:82:ARG:N	4:AE:92:TYR:HE1	2.16	0.42
5:AF:77:ILE:CD1	5:AF:103:VAL:HG21	2.45	0.42
5:AF:191:THR:HB	5:AF:193:TYR:CE2	2.53	0.42
5:AF:50:ALA:CA	5:AF:72:LYS:HD2	2.49	0.42
6:AG:152:SER:C	6:AG:154:ASN:ND2	2.72	0.42
6:AG:26:CYS:CA	6:AG:31:CYS:HB3	2.40	0.42
7:AH:107:ARG:HH11	7:AH:107:ARG:HB3	1.84	0.42
7:AH:11:ILE:CG2	7:AH:12:LEU:N	2.66	0.42
7:AH:124:GLY:O	7:AH:126:ARG:N	2.52	0.42
7:AH:144:THR:C	7:AH:146:ALA:N	2.68	0.42
9:AJ:121:ALA:HB1	9:AJ:125:MET:CE	2.48	0.42
9:AJ:66:VAL:HG12	9:AJ:70:LYS:CE	2.43	0.42
10:AK:118:VAL:C	10:AK:119:LEU:HD22	2.40	0.42
10:AK:9:MET:HE2	10:AK:13:ILE:HD11	2.01	0.42
10:AK:46:LYS:HZ2	10:AK:64:LYS:CA	2.18	0.42
10:AK:96:GLY:O	10:AK:97:VAL:O	2.38	0.42
1:AA:1231:G:OP2	11:AL:127:LYS:HE2	2.19	0.42
13:AN:60:ALA:O	13:AN:61:ALA:C	2.58	0.42
13:AN:71:LYS:O	13:AN:74:ALA:CB	2.62	0.42
14:AO:53:ARG:NH2	14:AO:92:ASP:HB3	2.34	0.42
14:AO:7:ILE:O	14:AO:8:ASN:C	2.58	0.42
15:AP:83:ASP:O	15:AP:84:ILE:O	2.37	0.42
16:AQ:4:LYS:O	16:AQ:6:LEU:N	2.53	0.42
17:AR:29:VAL:HG21	17:AR:81:LEU:CD1	2.38	0.42
18:AS:57:ARG:O	18:AS:60:LEU:N	2.52	0.42
19:AT:19:VAL:HG21	19:AT:73:VAL:HG21	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:AU:59:SER:O	20:AU:62:GLU:N	2.51	0.42
21:AV:20:LEU:C	21:AV:21:GLU:HG2	2.39	0.42
22:AW:61:SER:O	22:AW:65:LYS:HG2	2.19	0.42
1:AA:194:C:H4'	22:AW:68:LYS:HE2	2.00	0.42
1:AA:263:A:H5''	22:AW:75:ASN:HD21	1.83	0.42
48:B1:26:GLU:HA	48:B1:29:GLU:CG	2.50	0.42
48:B1:50:ARG:CB	48:B1:54:ARG:HH12	2.30	0.42
24:BA:928:G:O2'	49:B2:43:ILE:CD1	2.67	0.42
50:B3:10:VAL:CG2	50:B3:60:GLN:HE22	2.31	0.42
53:B6:8:ASN:OD1	53:B6:10:ARG:HB2	2.19	0.42
53:B6:17:GLY:O	53:B6:18:PHE:C	2.57	0.42
54:B7:26:LYS:C	54:B7:28:GLY:H	2.23	0.42
54:B7:50:LEU:O	54:B7:51:ALA:HB3	2.20	0.42
24:BA:1150:C:H2'	24:BA:1151:G:O4'	2.20	0.42
24:BA:1385:G:C5	24:BA:1386:C:C5	3.07	0.42
24:BA:1399:C:OP1	44:BW:53:LYS:NZ	2.52	0.42
24:BA:146:G:C2'	24:BA:147:U:H5''	2.49	0.42
24:BA:1449:A:P	24:BA:1543:A:N1	2.91	0.42
24:BA:1673:U:O2'	24:BA:1674:G:OP1	2.37	0.42
24:BA:1689:A:N6	24:BA:1700:A:N3	2.66	0.42
24:BA:1707:G:C4	24:BA:1708:C:C6	3.07	0.42
24:BA:1806:C:H2'	24:BA:1807:G:H5'	2.02	0.42
24:BA:1858:G:C6	24:BA:1883:G:N1	2.87	0.42
24:BA:1917:U:C3'	24:BA:1917:U:H6	2.30	0.42
24:BA:1997:G:N2	24:BA:1998:G:C4	2.87	0.42
24:BA:1996:C:C2'	24:BA:1997:G:O5'	2.68	0.42
24:BA:203:C:C6	24:BA:204:A:C8	3.07	0.42
24:BA:2042:A:H2'	24:BA:2043:C:OP2	2.19	0.42
24:BA:2047:U:C2	24:BA:2048:G:C8	3.07	0.42
24:BA:2286:A:OP2	52:B5:27:LYS:CE	2.67	0.42
24:BA:2304:G:O6	24:BA:2313:C:N4	2.52	0.42
24:BA:2345:G:H21	24:BA:2381:C:H2'	1.84	0.42
24:BA:2346:A:C2	24:BA:2383:G:C2	3.07	0.42
24:BA:241:A:H8	24:BA:243:U:C2	2.37	0.42
24:BA:2553:G:O5'	24:BA:2554:U:OP2	2.36	0.42
24:BA:2644:G:C6	24:BA:2645:G:C2	3.07	0.42
24:BA:2685:G:O3'	35:BN:66:LYS:NZ	2.49	0.42
24:BA:2709:G:C2'	24:BA:2710:C:O5'	2.64	0.42
24:BA:2887:U:N3	24:BA:2888:C:C5	2.87	0.42
24:BA:301:G:C6	24:BA:317:G:C6	3.08	0.42
24:BA:300:A:C5	24:BA:334:C:H4'	2.54	0.42
24:BA:292:C:H41	24:BA:346:A:H62	1.67	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:35:G:H5'	24:BA:455:C:N3	2.34	0.42
24:BA:37:C:H2'	24:BA:38:A:C8	2.54	0.42
24:BA:449:A:P	29:BF:85:GLY:HA2	2.59	0.42
24:BA:482:A:N6	24:BA:506:G:C6	2.87	0.42
24:BA:594:U:C2	24:BA:595:C:C5	3.07	0.42
24:BA:623:G:P	36:BO:105:LEU:CD2	3.03	0.42
24:BA:636:G:H4'	24:BA:638:G:HO2'	1.83	0.42
24:BA:727:A:N1	24:BA:729:G:C5	2.87	0.42
24:BA:73:A:H8	24:BA:73:A:O5'	2.02	0.42
24:BA:823:G:N3	24:BA:823:G:C2'	2.80	0.42
24:BA:885:C:H41	24:BA:889:C:H6	1.67	0.42
24:BA:900:A:C2'	24:BA:901:A:C5'	2.97	0.42
24:BA:969:U:H2'	24:BA:970:C:C5'	2.50	0.42
24:BA:973:A:C1'	24:BA:1188:U:C5	3.02	0.42
27:BD:149:PRO:C	27:BD:151:LYS:H	2.21	0.42
27:BD:132:PRO:CD	27:BD:190:TYR:CZ	3.02	0.42
27:BD:27:THR:HG22	27:BD:29:PRO:CG	2.49	0.42
24:BA:1816:G:OP2	27:BD:43:ARG:CZ	2.67	0.42
28:BE:117:MET:CG	28:BE:136:ARG:NE	2.68	0.42
24:BA:2053:G:H4'	28:BE:145:LYS:NZ	2.34	0.42
28:BE:5:LEU:HD13	28:BE:197:ILE:HA	1.99	0.42
29:BF:153:SER:N	29:BF:190:GLU:HG3	2.30	0.42
30:BG:125:PHE:HA	30:BG:132:ASN:HB2	1.96	0.42
30:BG:110:ALA:CB	30:BG:139:LEU:CG	2.90	0.42
30:BG:157:ILE:CG1	30:BG:158:ALA:H	2.28	0.42
24:BA:2311:A:H2'	30:BG:43:LEU:CD2	2.49	0.42
31:BH:105:LEU:O	31:BH:113:VAL:CG2	2.67	0.42
31:BH:23:ARG:NH2	31:BH:35:VAL:C	2.73	0.42
31:BH:41:MET:SD	31:BH:64:LEU:CD2	3.06	0.42
31:BH:45:VAL:CG1	31:BH:50:VAL:HG13	2.49	0.42
32:BK:16:GLY:C	32:BK:17:GLN:HG3	2.40	0.42
34:BM:23:LEU:N	34:BM:23:LEU:HD23	2.34	0.42
34:BM:42:TRP:HA	34:BM:47:ALA:HB1	2.01	0.42
34:BM:96:GLU:HG2	34:BM:97:ARG:N	2.32	0.42
35:BN:106:LEU:O	35:BN:109:LYS:HG3	2.20	0.42
24:BA:1665:A:H4'	35:BN:1:MET:H1	1.84	0.42
36:BO:124:LYS:CD	36:BO:142:GLY:O	2.66	0.42
37:BP:132:VAL:HB	37:BP:133:ARG:CZ	2.49	0.42
37:BP:89:ASN:HB3	37:BP:91:GLU:OE1	2.19	0.42
38:BQ:117:VAL:HG22	38:BQ:117:VAL:O	2.18	0.42
39:BR:19:LYS:O	39:BR:20:ARG:O	2.37	0.42
39:BR:3:ARG:O	39:BR:7:TYR:HB2	2.18	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BR:58:LEU:C	39:BR:60:GLY:N	2.72	0.42
40:BS:24:PRO:CG	40:BS:25:GLY:N	2.73	0.42
40:BS:34:VAL:CG2	40:BS:36:GLU:HB2	2.45	0.42
41:BT:33:ARG:O	41:BT:34:LYS:C	2.57	0.42
24:BA:531:C:H42	41:BT:38:THR:HG22	1.83	0.42
41:BT:66:ASN:HB3	41:BT:70:ARG:HD3	2.01	0.42
34:BM:42:TRP:HZ3	41:BT:71:GLN:NE2	2.17	0.42
41:BT:95:LEU:HD23	41:BT:95:LEU:H	1.82	0.42
41:BT:94:ASN:O	41:BT:97:ASP:HB2	2.19	0.42
42:BU:40:LEU:CA	42:BU:54:GLY:CA	2.86	0.42
43:BV:25:ARG:NE	43:BV:75:TYR:CE2	2.87	0.42
44:BW:25:LYS:HG2	44:BW:82:GLN:HB2	2.01	0.42
44:BW:39:ILE:CG2	44:BW:54:VAL:CG1	2.96	0.42
44:BW:39:ILE:CB	44:BW:54:VAL:HG11	2.46	0.42
44:BW:66:LEU:HG	44:BW:70:LEU:HA	2.01	0.42
46:BY:138:GLU:C	46:BY:139:VAL:HG23	2.39	0.42
46:BY:139:VAL:HG11	46:BY:155:LEU:O	2.19	0.42
46:BY:122:ARG:HB2	46:BY:171:ILE:HA	2.01	0.42
32:BK:115:ALA:O	32:BK:116:LEU:HB2	2.19	0.42
32:BK:125:GLU:HB3	32:BK:143:SER:CA	2.48	0.42
3:AD:7:A:N6	3:AD:49:C:C4	2.87	0.42
3:AD:55:U:C6	3:AD:55:U:C3'	3.02	0.42
26:BC:102:LYS:HE3	26:BC:107:TRP:HB3	2.01	0.42
26:BC:114:VAL:HG12	26:BC:144:THR:HA	2.01	0.42
26:BC:120:MET:CG	26:BC:145:VAL:HG13	2.48	0.42
26:BC:190:ARG:O	26:BC:191:ALA:C	2.57	0.42
26:BC:22:ILE:HD11	26:BC:226:PRO:CA	2.42	0.42
26:BC:23:ASP:O	26:BC:24:GLU:C	2.57	0.42
26:BC:40:THR:HB	26:BC:217:THR:OG1	2.19	0.42
26:BC:74:VAL:HG12	26:BC:114:VAL:HG22	2.00	0.42
2:A1:5:U:O2	2:A1:6:U:H5	2.01	0.42
52:B5:54:ILE:HG23	52:B5:54:ILE:OXT	2.19	0.42
33:BL:62:ASP:O	33:BL:63:ARG:HB2	2.19	0.42
1:AA:513:C:O5'	1:AA:513:C:H6	2.02	0.42
24:BA:1231:G:C5	24:BA:1232:G:N7	2.87	0.42
1:AA:1048:G:O2'	1:AA:1049:U:O3'	2.23	0.42
1:AA:1057:G:C2'	1:AA:1058:G:O5'	2.67	0.42
1:AA:1059:C:C4	1:AA:1060:C:C5	3.06	0.42
1:AA:1095:U:N3	1:AA:1096:C:C4	2.87	0.42
1:AA:1116:C:C2	1:AA:1117:G:C8	3.07	0.42
1:AA:1243:C:N3	1:AA:1244:C:C5	2.87	0.42
1:AA:1297:C:H5'	1:AA:1298:C:OP1	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:129(A):G:C4'	1:AA:130:A:O5'	2.63	0.42
1:AA:134:A:C8	1:AA:134:A:O5'	2.72	0.42
1:AA:1352:C:N3	1:AA:1371:G:C6	2.87	0.42
1:AA:1405:G:O2'	1:AA:1519:A:H5'	2.19	0.42
1:AA:1449:C:H2'	1:AA:1450:U:C5'	2.50	0.42
1:AA:15:G:N3	1:AA:16:A:C8	2.88	0.42
1:AA:186(A):C:O2'	1:AA:186(B):C:H5'	2.19	0.42
1:AA:129(A):G:C2	1:AA:191(A):G:C8	3.07	0.42
1:AA:193:C:N3	1:AA:194:C:N4	2.67	0.42
1:AA:254:G:N2	19:AT:16:GLN:OE1	2.53	0.42
1:AA:254:G:N3	1:AA:255:G:C8	2.88	0.42
1:AA:270:A:C6	1:AA:271:C:C4	3.07	0.42
1:AA:293:G:C2	1:AA:294:U:C6	3.07	0.42
1:AA:323:U:C3'	1:AA:323:U:C6	3.01	0.42
1:AA:408:A:C4	1:AA:409:G:N7	2.88	0.42
1:AA:437:U:O2'	6:AG:123:HIS:ND1	2.44	0.42
1:AA:44:G:C2	1:AA:45:U:C1'	3.02	0.42
1:AA:509:A:N3	1:AA:543:C:O2'	2.39	0.42
1:AA:540:G:C6	1:AA:541:G:C6	3.07	0.42
1:AA:643:C:N3	1:AA:644:G:C8	2.86	0.42
1:AA:823:G:C6	1:AA:878:G:C6	3.08	0.42
1:AA:864:A:N6	1:AA:865:A:N6	2.67	0.42
1:AA:874:G:H2'	1:AA:875:C:H5'	2.01	0.42
1:AA:901:A:H2'	1:AA:902:G:O4'	2.19	0.42
1:AA:938:A:H2'	1:AA:939:G:O5'	2.19	0.42
3:AB:33:U:N3	3:AB:35:A:H5''	2.32	0.42
4:AE:92:TYR:O	4:AE:152:PHE:CA	2.67	0.42
4:AE:177:ALA:CB	4:AE:184:VAL:HG22	2.49	0.42
4:AE:218:ALA:C	4:AE:220:ASP:N	2.71	0.42
4:AE:33:TYR:CD2	4:AE:43:ASP:HB2	2.53	0.42
5:AF:11:ARG:CA	5:AF:11:ARG:NE	2.82	0.42
5:AF:176:HIS:HB3	5:AF:177:THR:H	1.54	0.42
5:AF:180:ALA:O	5:AF:182:ILE:HG13	2.19	0.42
5:AF:34:LEU:O	5:AF:38:ARG:HG2	2.19	0.42
5:AF:40:ARG:C	5:AF:43:LEU:HB3	2.38	0.42
5:AF:58:GLU:O	5:AF:65:ALA:N	2.51	0.42
5:AF:95:THR:HB	5:AF:97:LYS:HE2	2.01	0.42
5:AF:64:VAL:HB	5:AF:99:VAL:CG1	2.49	0.42
6:AG:118:ARG:HG3	6:AG:136:PRO:HB3	1.99	0.42
6:AG:30:LYS:HZ3	6:AG:35:ARG:CD	2.33	0.42
6:AG:32:ALA:HA	6:AG:37:PRO:HA	2.02	0.42
6:AG:77:ASN:O	6:AG:78:LEU:C	2.57	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AH:141:GLN:C	7:AH:142:LEU:CG	2.87	0.42
7:AH:50:GLU:CB	7:AH:53:LEU:HD23	2.48	0.42
7:AH:89:ILE:HD11	7:AH:122:GLU:OE2	2.19	0.42
9:AJ:72:ARG:NH2	9:AJ:138:LYS:NZ	2.63	0.42
9:AJ:78:ARG:C	9:AJ:84:ASN:HA	2.25	0.42
10:AK:120:THR:O	10:AK:123:GLU:OE1	2.38	0.42
11:AL:27:THR:CG2	11:AL:30:GLY:H	2.32	0.42
13:AN:114:VAL:CG2	13:AN:115:PRO:CD	2.98	0.42
13:AN:87:THR:HG22	13:AN:91:ARG:CZ	2.49	0.42
14:AO:39:VAL:HG11	14:AO:41:ARG:HH22	1.83	0.42
14:AO:78:GLN:O	14:AO:79:GLU:C	2.55	0.42
14:AO:82:VAL:HG12	14:AO:105:TYR:HD1	1.84	0.42
14:AO:9:GLN:O	14:AO:10:LEU:C	2.57	0.42
15:AP:56:LEU:HG	15:AP:56:LEU:H	1.53	0.42
15:AP:60:VAL:HG13	15:AP:64:TRP:CB	2.46	0.42
1:AA:740:U:OP2	17:AR:2:PRO:HB3	2.20	0.42
1:AA:765:G:OP1	17:AR:50:HIS:CD2	2.72	0.42
17:AR:8:LYS:HE2	17:AR:9:GLN:NE2	2.35	0.42
18:AS:35:LYS:HZ2	18:AS:37:GLY:CA	2.32	0.42
19:AT:43:LEU:HD11	19:AT:69:LYS:HB2	2.00	0.42
1:AA:255:G:OP1	19:AT:69:LYS:CE	2.67	0.42
21:AV:35:SER:O	21:AV:37:ARG:N	2.53	0.42
21:AV:41:VAL:O	21:AV:44:MET:HB2	2.19	0.42
54:B7:17:THR:C	54:B7:19:SER:N	2.73	0.42
54:B7:26:LYS:HD2	54:B7:45:GLY:H	1.84	0.42
55:B8:12:ASP:C	55:B8:13:LYS:HG3	2.40	0.42
55:B8:14:CYS:SG	55:B8:32:HIS:CD2	3.13	0.42
24:BA:1044:G:C4	24:BA:1048:A:C8	3.07	0.42
24:BA:1044:G:C4'	24:BA:1047:G:HO2'	2.31	0.42
24:BA:1063:G:C5	24:BA:1064:C:N4	2.86	0.42
24:BA:1076:C:OP2	24:BA:1076:C:H6	2.01	0.42
24:BA:1138:G:N2	24:BA:1139:G:C1'	2.72	0.42
24:BA:1137:G:C2'	24:BA:1138:G:O5'	2.67	0.42
24:BA:1160:G:OP2	24:BA:1160:G:H8	2.03	0.42
24:BA:974:G:H1'	24:BA:1186:G:C4	2.54	0.42
24:BA:1188:U:C2'	24:BA:1189:A:C5'	2.96	0.42
24:BA:1193:G:H2'	24:BA:1194:A:O4'	2.20	0.42
24:BA:1279:G:C6	24:BA:1280:G:C6	3.06	0.42
24:BA:1362:C:C4	24:BA:1363:C:C5	3.07	0.42
24:BA:1444:G:C2	24:BA:1445:C:O2	2.72	0.42
24:BA:1450:C:C2'	24:BA:1451:C:OP2	2.66	0.42
24:BA:1521:G:C3'	24:BA:1522:G:C5'	2.94	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1543:A:C8	24:BA:1544:C:H1'	2.54	0.42
24:BA:1410:G:N2	24:BA:1593:G:C4	2.88	0.42
24:BA:1670:C:P	24:BA:1671:U:C5	3.00	0.42
24:BA:1460:A:N6	24:BA:1732:A:C2	2.87	0.42
24:BA:172:C:C6	24:BA:173:G:N7	2.88	0.42
24:BA:1743:G:H3'	24:BA:1746:G:C8	2.34	0.42
24:BA:1818:U:H3	27:BD:155:LEU:H	1.67	0.42
24:BA:1919:A:OP2	24:BA:1920:C:C5	2.62	0.42
24:BA:1924:C:O2'	24:BA:1925:C:H5'	2.18	0.42
24:BA:1936:A:C1'	24:BA:1940:U:N3	2.82	0.42
24:BA:1951:U:C2	24:BA:1953:A:C5'	3.03	0.42
24:BA:2000:G:N1	24:BA:2001:A:C5	2.88	0.42
24:BA:2088:G:H2'	24:BA:2089:U:O4'	2.19	0.42
24:BA:215:G:H1'	24:BA:216:A:C5'	2.49	0.42
24:BA:2372:G:N3	24:BA:2372:G:H2'	2.34	0.42
24:BA:2418:A:C4	24:BA:2419:U:C6	3.07	0.42
24:BA:2509:G:N1	24:BA:2580:U:C2	2.87	0.42
24:BA:2511:U:C4	24:BA:2512:C:C4	3.07	0.42
24:BA:1953:A:O2'	24:BA:2559:C:O2'	2.22	0.42
24:BA:2563:U:H2'	24:BA:2565:A:OP2	2.19	0.42
24:BA:2603:G:H2'	24:BA:2604:U:C5'	2.49	0.42
24:BA:264:C:HO2'	24:BA:265:A:P	2.42	0.42
24:BA:2685:G:H4'	35:BN:66:LYS:NZ	2.34	0.42
24:BA:2706:G:H5'	24:BA:2852:G:OP1	2.19	0.42
24:BA:270(X):G:C2	24:BA:270(Y):G:C1'	3.01	0.42
24:BA:2746:U:H5'	31:BH:139:GLN:CA	2.37	0.42
24:BA:2770:G:C2'	24:BA:2771:C:H5'	2.47	0.42
24:BA:2784:C:H2'	24:BA:2785:C:C6	2.51	0.42
24:BA:2785:C:C2	24:BA:2786:U:C5	3.07	0.42
24:BA:2816:C:O3'	51:B4:43:HIS:CE1	2.71	0.42
24:BA:2872:G:N2	24:BA:2873:A:C6	2.88	0.42
24:BA:316:C:H2'	24:BA:317:G:H8	1.85	0.42
24:BA:410:G:H5''	24:BA:411:G:P	2.60	0.42
24:BA:515:A:N7	24:BA:516:C:C5	2.87	0.42
24:BA:530:G:O2'	24:BA:532:A:P	2.76	0.42
24:BA:605:C:O2'	24:BA:606:U:H5'	2.19	0.42
24:BA:609:A:N6	24:BA:619:G:H21	2.16	0.42
24:BA:610:C:H2'	24:BA:611:C:C5	2.54	0.42
24:BA:640:C:N4	24:BA:647:G:N1	2.62	0.42
24:BA:663:G:OP1	36:BO:18:ARG:O	2.35	0.42
24:BA:703:U:H2'	24:BA:704:G:O4'	2.19	0.42
24:BA:754:C:H2'	24:BA:754:C:O2	2.18	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:77:C:H6	24:BA:77:C:OP2	2.02	0.42
24:BA:785:G:O2'	24:BA:786:C:P	2.77	0.42
24:BA:866:A:H2'	24:BA:867:C:O5'	2.20	0.42
24:BA:956:G:H2'	24:BA:957:A:C8	2.54	0.42
25:BB:109:G:C2	25:BB:110:G:C5	3.07	0.42
25:BB:78:A:C4	25:BB:99:A:N6	2.86	0.42
27:BD:34:VAL:N	27:BD:104:TYR:HH	2.16	0.42
27:BD:105:ILE:HG13	27:BD:106:ILE:CD1	2.49	0.42
27:BD:144:ALA:O	27:BD:145:VAL:C	2.57	0.42
27:BD:160:GLY:O	27:BD:162:SER:N	2.52	0.42
27:BD:208:LYS:HB3	27:BD:211:ARG:CG	2.50	0.42
24:BA:783:A:C3'	27:BD:227:ASN:OD1	2.66	0.42
27:BD:258:LYS:CA	27:BD:261:LYS:NZ	2.71	0.42
27:BD:7:LYS:HD3	27:BD:9:TYR:CE1	2.55	0.42
28:BE:13:ARG:HG3	28:BE:22:PRO:HG3	1.98	0.42
28:BE:38:THR:O	28:BE:39:PRO:C	2.56	0.42
28:BE:49:LEU:CG	28:BE:76:ARG:O	2.67	0.42
28:BE:91:VAL:CG2	28:BE:180:ASN:ND2	2.82	0.42
29:BF:37:VAL:C	29:BF:184:TYR:HH	2.23	0.42
29:BF:154:VAL:HA	29:BF:191:ARG:O	2.18	0.42
29:BF:57:VAL:HG12	29:BF:58:ALA:N	2.35	0.42
29:BF:5:ALA:O	29:BF:7:TYR:CD1	2.73	0.42
24:BA:1257:C:HO2'	29:BF:84:VAL:HG23	1.75	0.42
30:BG:92:VAL:HG13	30:BG:94:LEU:HD22	1.99	0.42
30:BG:96:ARG:HH11	30:BG:96:ARG:HB2	1.85	0.42
31:BH:97:ARG:O	31:BH:104:GLU:HG2	2.19	0.42
33:BL:41:PHE:O	33:BL:42:ASN:C	2.57	0.42
33:BL:79:ARG:HH21	33:BL:80:LYS:HE2	1.84	0.42
34:BM:51:PHE:HA	34:BM:119:ARG:O	2.19	0.42
34:BM:55:VAL:HG11	34:BM:127:ASP:HA	2.01	0.42
34:BM:39:ARG:HB2	34:BM:48:MET:SD	2.59	0.42
34:BM:48:MET:C	34:BM:50:ASP:N	2.67	0.42
34:BM:18:ALA:CB	34:BM:55:VAL:O	2.56	0.42
34:BM:72:TYR:CD2	34:BM:72:TYR:O	2.72	0.42
35:BN:22:ILE:HB	35:BN:40:VAL:HG11	2.01	0.42
37:BP:125:LEU:CD2	37:BP:125:LEU:H	2.31	0.42
37:BP:63:LYS:CD	37:BP:64:ILE:N	2.76	0.42
39:BR:24:LEU:HG	39:BR:41:ASP:CA	2.49	0.42
39:BR:32:LEU:HG	39:BR:97:ARG:HH12	1.83	0.42
40:BS:53:ARG:HH22	40:BS:101:PHE:CA	2.31	0.42
40:BS:72:VAL:O	40:BS:74:ARG:HD2	2.20	0.42
41:BT:65:ILE:HB	41:BT:76:TYR:OH	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:BV:36:LEU:CD1	43:BV:47:VAL:HB	2.48	0.42
44:BW:89:ILE:O	44:BW:92:LEU:HB2	2.18	0.42
45:BX:84:ARG:CG	45:BX:85:VAL:N	2.82	0.42
46:BY:12:GLY:O	46:BY:13:GLU:C	2.57	0.42
24:BA:896:A:OP1	46:BY:146:ILE:HG22	2.19	0.42
46:BY:4:ARG:HD3	46:BY:38:TYR:CA	2.49	0.42
32:BK:147:GLN:OE1	32:BK:148:GLU:N	2.53	0.42
24:BA:2175:C:C2	24:BA:2176:A:C8	3.08	0.42
1:AA:1018:C:O2'	1:AA:1019:C:H5'	2.19	0.42
34:BM:139:GLU:C	34:BM:140:VAL:HG23	2.38	0.42
14:AO:43:VAL:HG12	14:AO:44:THR:N	2.33	0.42
24:BA:2182:G:C4	24:BA:2183:C:C6	3.07	0.42
1:AA:1167:A:C8	1:AA:1167:A:OP1	2.72	0.42
1:AA:723:U:H6	2:A1:30:U:H4'	1.84	0.42
1:AA:1397:C:N4	2:A1:46:U:C5	2.87	0.42
1:AA:1073:U:C2	1:AA:1074:G:C8	3.07	0.42
1:AA:60:A:N6	1:AA:107:G:O2'	2.48	0.42
1:AA:1156:G:N3	1:AA:1179:A:N1	2.67	0.42
1:AA:1231:G:H2'	1:AA:1232:U:H6	1.84	0.42
1:AA:1305:G:OP1	23:AX:2:GLY:CA	2.66	0.42
1:AA:1307:U:C2	1:AA:1308:U:C6	3.07	0.42
1:AA:1347:G:H3'	11:AL:107:ARG:HB3	2.02	0.42
1:AA:1348:U:C2	1:AA:1349:A:C8	3.08	0.42
1:AA:1392:G:H2'	1:AA:1393:U:O4'	2.18	0.42
1:AA:1476:G:H2'	1:AA:1477:C:H6	1.79	0.42
1:AA:19:C:OP1	7:AH:86:ALA:HB1	2.20	0.42
1:AA:20:U:N3	1:AA:21:G:C5	2.88	0.42
1:AA:315:A:N1	1:AA:330:C:N1	2.67	0.42
1:AA:51:A:N1	1:AA:353:A:N1	2.67	0.42
1:AA:592:G:H2'	1:AA:593:G:C5'	2.45	0.42
1:AA:61:G:C6	1:AA:107:G:O6	2.72	0.42
1:AA:627:G:C2'	1:AA:628:G:O5'	2.68	0.42
1:AA:652:U:C5	1:AA:752:G:C2	3.08	0.42
1:AA:698:G:C2	1:AA:699:C:C2	3.08	0.42
1:AA:720:C:H4'	20:AU:50:ILE:CG2	2.49	0.42
1:AA:763:G:C2	1:AA:764:C:C6	3.07	0.42
1:AA:783:C:H2'	1:AA:784:C:H6	1.84	0.42
1:AA:80:G:H2'	1:AA:81:G:C1'	2.45	0.42
1:AA:828:A:H8	1:AA:829:G:C8	2.36	0.42
1:AA:894:G:HO2'	1:AA:895:G:H5'	1.82	0.42
1:AA:906:G:H5'	1:AA:907:A:OP2	2.20	0.42
1:AA:993:G:N2	1:AA:995:C:N4	2.68	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AB:14:A:N6	3:AB:22:G:O2'	2.52	0.42
3:AC:40:C:H2'	3:AC:40:C:O2	2.19	0.42
3:AC:49:C:C2	3:AC:50:U:C5	3.08	0.42
4:AE:113:HIS:ND1	4:AE:116:GLU:OE1	2.51	0.42
4:AE:132:LYS:NZ	4:AE:132:LYS:CB	2.81	0.42
4:AE:204:ASN:HD22	4:AE:205:ASP:N	2.17	0.42
5:AF:182:ILE:HD11	5:AF:203:PHE:CE1	2.54	0.42
5:AF:54:ARG:O	5:AF:68:VAL:HG13	2.19	0.42
5:AF:66:VAL:O	5:AF:102:ASN:HB2	2.19	0.42
6:AG:125:HIS:HB3	6:AG:152:SER:CB	2.37	0.42
6:AG:146:ILE:C	6:AG:146:ILE:CD1	2.88	0.42
6:AG:181:MET:HB2	6:AG:181:MET:HE3	1.74	0.42
6:AG:188:LEU:O	6:AG:189:PRO:C	2.53	0.42
6:AG:207:TYR:O	6:AG:208:SER:C	2.57	0.42
6:AG:51:PRO:HG2	6:AG:51:PRO:O	2.19	0.42
7:AH:53:LEU:O	7:AH:57:LYS:CB	2.68	0.42
8:AI:46:ARG:NH2	20:AU:37:VAL:HG21	2.35	0.42
8:AI:78:GLU:HA	8:AI:81:ILE:HD12	2.02	0.42
10:AK:97:VAL:HG13	10:AK:98:LYS:HZ1	1.82	0.42
11:AL:10:ARG:O	11:AL:11:LYS:C	2.56	0.42
11:AL:8:GLY:O	11:AL:15:ALA:O	2.37	0.42
13:AN:59:TYR:O	13:AN:62:GLN:CD	2.58	0.42
13:AN:83:ILE:CD1	13:AN:83:ILE:N	2.82	0.42
13:AN:65:ALA:CB	13:AN:98:LEU:CD2	2.94	0.42
13:AN:99:GLN:O	13:AN:102:GLY:N	2.52	0.42
14:AO:105:TYR:HB2	14:AO:106:ASP:H	1.57	0.42
14:AO:52:LEU:CD2	14:AO:52:LEU:N	2.79	0.42
15:AP:19:LEU:HD21	15:AP:30:ALA:HA	2.02	0.42
15:AP:52:GLU:HA	15:AP:55:ARG:CZ	2.48	0.42
15:AP:81:LEU:O	15:AP:84:ILE:HG13	2.19	0.42
18:AS:19:ILE:O	18:AS:36:ILE:O	2.37	0.42
1:AA:760:G:C2'	19:AT:103:GLY:HA3	2.49	0.42
14:AO:11:VAL:CG2	19:AT:32:TYR:HD1	2.32	0.42
19:AT:62:SER:HB3	19:AT:72:ARG:CD	2.48	0.42
1:AA:255:G:OP1	19:AT:69:LYS:HE2	2.18	0.42
20:AU:43:PHE:HD2	20:AU:56:THR:HG22	1.84	0.42
20:AU:60:GLY:C	20:AU:64:ARG:NH1	2.73	0.42
21:AV:25:LYS:C	21:AV:25:LYS:CD	2.82	0.42
21:AV:51:VAL:HG23	21:AV:60:VAL:CG2	2.49	0.42
1:AA:1320:C:C2	21:AV:72:GLY:HA3	2.55	0.42
48:B1:27:LEU:HD11	48:B1:48:LEU:CG	2.49	0.42
49:B2:9:VAL:HG13	49:B2:54:VAL:CA	2.37	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:B3:5:ILE:CD1	50:B3:10:VAL:N	2.81	0.42
51:B4:36:CYS:HB2	51:B4:37:LYS:CE	2.50	0.42
24:BA:126:A:C5'	53:B6:18:PHE:HD1	2.32	0.42
53:B6:31:LEU:C	53:B6:35:ARG:CD	2.87	0.42
24:BA:1008:C:C6	24:BA:1008:C:OP1	2.72	0.42
24:BA:1045:A:O4'	24:BA:1045:A:P	2.77	0.42
24:BA:104:U:O2'	24:BA:105:C:H5'	2.19	0.42
24:BA:1065:U:C2'	24:BA:1066:U:H5''	2.48	0.42
24:BA:117:G:C6	24:BA:119:A:N6	2.87	0.42
24:BA:1451:C:C5'	24:BA:1453:A:OP2	2.59	0.42
24:BA:1518:C:C2	24:BA:1519:G:O4'	2.72	0.42
24:BA:152:G:N1	24:BA:153:C:C2	2.88	0.42
24:BA:1568:G:OP1	27:BD:86:PRO:HG2	2.19	0.42
24:BA:1608:A:H2'	24:BA:1611:C:H41	1.84	0.42
24:BA:1657:C:N3	24:BA:1658:C:C5	2.87	0.42
24:BA:1669:A:H2'	24:BA:1670:C:C5'	2.44	0.42
24:BA:1687:G:H1'	24:BA:1702:G:H22	1.85	0.42
24:BA:1703:G:C2'	24:BA:1704:G:C5'	2.96	0.42
24:BA:1684:C:C2	24:BA:1705:G:N2	2.88	0.42
24:BA:1816:G:P	27:BD:43:ARG:NH2	2.93	0.42
24:BA:1861:G:N2	24:BA:1862:G:C1'	2.82	0.42
24:BA:1891:G:C6	24:BA:1892:C:C4	3.07	0.42
24:BA:1925:C:N3	24:BA:1929:G:N1	2.63	0.42
24:BA:1933:G:H21	24:BA:1974:C:C5'	2.08	0.42
24:BA:1945:G:C2'	24:BA:1946:U:O5'	2.68	0.42
24:BA:1952:A:H1'	24:BA:2560:C:O2'	2.20	0.42
24:BA:2043:C:H2'	24:BA:2044:C:O5'	2.18	0.42
24:BA:207:A:C2	24:BA:208:C:H1'	2.53	0.42
24:BA:2086:U:H3	24:BA:2233:U:H3	1.68	0.42
24:BA:2094:G:N7	24:BA:2095:C:C5	2.88	0.42
24:BA:2198:A:C2	32:BK:29:TYR:HD2	2.37	0.42
24:BA:954:G:O2'	24:BA:2274:A:C2	2.58	0.42
24:BA:2391:G:O6	24:BA:2425:A:H5''	2.19	0.42
24:BA:241:A:H3'	24:BA:241:A:N3	2.34	0.42
24:BA:2434:A:OP2	24:BA:2434:A:O4'	2.38	0.42
24:BA:2479:G:H2'	24:BA:2480:C:O4'	2.19	0.42
24:BA:570:G:N2	24:BA:2498:C:O2'	2.52	0.42
24:BA:2557:G:C4	24:BA:2558:C:C5	3.08	0.42
24:BA:2576:G:H3'	24:BA:2576:G:N3	2.34	0.42
24:BA:2699:C:H2'	24:BA:2700:C:C5'	2.49	0.42
24:BA:270(C):C:OP1	24:BA:365:C:C2'	2.67	0.42
24:BA:2781:A:C2'	24:BA:2782:G:O2'	2.57	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:278:A:O2'	24:BA:279:C:O4'	2.35	0.42
24:BA:26:G:N2	24:BA:27:G:C2	2.87	0.42
24:BA:2879:C:O2	24:BA:2879:C:C2'	2.67	0.42
24:BA:2901:C:N3	24:BA:2902:C:C5	2.87	0.42
24:BA:511:U:H5	24:BA:512:G:C4	2.37	0.42
24:BA:522:G:C5	24:BA:523:C:C5	3.08	0.42
24:BA:601:C:O2'	24:BA:604:G:OP1	2.37	0.42
24:BA:625:G:N1	36:BO:100:LEU:HB3	2.34	0.42
24:BA:708:C:H2'	24:BA:709:U:C6	2.55	0.42
24:BA:769:G:N3	24:BA:770:G:C8	2.87	0.42
24:BA:7:G:O2'	24:BA:8:A:C5'	2.64	0.42
24:BA:800:A:N7	24:BA:802:A:O4'	2.52	0.42
24:BA:883:G:N2	24:BA:894:C:C2	2.88	0.42
24:BA:901:A:H2'	24:BA:902:C:C6	2.54	0.42
27:BD:65:ILE:CD1	27:BD:104:TYR:CB	2.96	0.42
27:BD:122:ASP:O	27:BD:123:ALA:O	2.37	0.42
27:BD:258:LYS:CG	27:BD:259:THR:N	2.82	0.42
27:BD:263:ARG:O	27:BD:266:SER:CB	2.63	0.42
27:BD:29:PRO:HG3	27:BD:82:ILE:HG22	2.01	0.42
27:BD:90:ALA:HB2	27:BD:159:ALA:HB1	2.01	0.42
28:BE:104:VAL:HG22	28:BE:198:VAL:CA	2.50	0.42
28:BE:59:VAL:HB	28:BE:62:PRO:CG	2.49	0.42
29:BF:156:LEU:HA	29:BF:193:VAL:O	2.20	0.42
29:BF:29:ASN:ND2	29:BF:30:PRO:N	2.67	0.42
30:BG:4:ASP:OD1	30:BG:7:LEU:HD12	2.19	0.42
31:BH:25:LYS:HG3	31:BH:27:LYS:HG3	2.02	0.42
32:BK:27:ARG:O	32:BK:32:PRO:HD3	2.19	0.42
33:BL:79:ARG:HB2	33:BL:79:ARG:HE	1.62	0.42
34:BM:67:LEU:O	34:BM:68:GLU:CG	2.67	0.42
35:BN:100:GLY:HA2	35:BN:118:ALA:O	2.19	0.42
35:BN:98:VAL:CG2	35:BN:98:VAL:O	2.66	0.42
36:BO:74:GLU:N	36:BO:107:LYS:CE	2.83	0.42
36:BO:107:LYS:NZ	36:BO:111:ARG:N	2.67	0.42
24:BA:2415:G:P	36:BO:61:ARG:HD2	2.58	0.42
24:BA:245:G:P	36:BO:65:ARG:HH21	2.43	0.42
37:BP:118:LEU:HB3	37:BP:131:ILE:HD13	2.01	0.42
37:BP:27:VAL:HG22	37:BP:28:ALA:O	2.18	0.42
37:BP:40:ALA:HA	37:BP:98:LYS:CG	2.40	0.42
38:BQ:54:LEU:HG	38:BQ:57:ARG:HD3	2.01	0.42
38:BQ:5:LYS:NZ	38:BQ:6:SER:CA	2.82	0.42
39:BR:71:ARG:HA	39:BR:104:GLY:O	2.20	0.42
39:BR:18:ILE:HD12	39:BR:18:ILE:N	2.35	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BS:64:ARG:O	40:BS:65:LYS:O	2.37	0.42
40:BS:82:LEU:HA	40:BS:82:LEU:HD23	1.81	0.42
41:BT:86:ALA:O	41:BT:90:VAL:CG2	2.68	0.42
42:BU:20:LEU:HD13	42:BU:95:LEU:HD13	2.01	0.42
43:BV:49:LYS:HA	43:BV:49:LYS:HE2	2.00	0.42
24:BA:1399:C:P	44:BW:25:LYS:HZ3	2.43	0.42
44:BW:12:VAL:HA	44:BW:29:TRP:CD1	2.54	0.42
44:BW:31:HIS:HE1	44:BW:33:LYS:HD2	1.83	0.42
46:BY:153:SER:OG	46:BY:154:ASP:N	2.52	0.42
46:BY:18:LEU:C	46:BY:23:LYS:O	2.57	0.42
46:BY:78:LYS:CG	46:BY:79:ARG:N	2.82	0.42
32:BK:67:ARG:O	32:BK:71:ILE:HG13	2.19	0.42
3:AD:7:A:C6	3:AD:49:C:C6	3.07	0.42
24:BA:2126:A:N1	24:BA:2162:G:O2'	2.40	0.42
24:BA:2140:C:O2'	24:BA:2141:G:H5'	2.19	0.42
26:BC:10:LEU:HD21	26:BC:220:PRO:CG	2.49	0.42
26:BC:13:LYS:HB2	26:BC:32:LEU:HD23	2.01	0.42
26:BC:64:LEU:CG	26:BC:161:ILE:HG12	2.50	0.42
26:BC:47:LEU:HD23	26:BC:169:GLY:O	2.18	0.42
26:BC:73:ARG:CB	26:BC:93:TYR:HE2	2.32	0.42
48:B1:7:GLU:O	48:B1:10:LYS:HG2	2.18	0.42
24:BA:1482:U:H1'	24:BA:1512:G:H22	1.85	0.42
24:BA:1588:C:C2	24:BA:1589:C:C5	3.07	0.42
24:BA:363(A):A:N3	24:BA:363(A):A:C2'	2.80	0.42
24:BA:489:G:C2	24:BA:491:G:C4	3.07	0.42
31:BH:20:ALA:HB3	31:BH:21:PRO:HD2	1.99	0.42
48:B1:47:ASP:OD2	48:B1:47:ASP:N	2.52	0.42
29:BF:175:THR:OG1	29:BF:175:THR:O	2.33	0.42
1:AA:1539:C:C4	2:A1:26:G:C2	3.08	0.42
2:A1:37:U:C2	2:A1:38:U:O4	2.73	0.42
1:AA:1088:G:N2	1:AA:1089:G:H1'	2.34	0.42
1:AA:1261:A:C2	1:AA:1262:C:N3	2.88	0.42
1:AA:1326:C:C2	1:AA:1327:C:C5	3.07	0.42
1:AA:1331:G:C4'	1:AA:1331:G:OP1	2.68	0.42
1:AA:1408:A:H2	1:AA:1495:U:C5	2.28	0.42
1:AA:248:C:H4'	1:AA:283:C:H1'	2.01	0.42
1:AA:283:C:C2	1:AA:284:G:C8	3.07	0.42
1:AA:293:G:N3	1:AA:294:U:C6	2.88	0.42
1:AA:299:G:C4	1:AA:300:A:N6	2.88	0.42
1:AA:425:G:H2'	1:AA:426:G:H5'	2.01	0.42
1:AA:41:G:C5	1:AA:42:G:N7	2.88	0.42
1:AA:723:U:C2'	1:AA:723:U:O2	2.68	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:724:G:N2	1:AA:725:G:N9	2.68	0.42
1:AA:755:G:OP2	17:AR:65:ARG:HD2	2.19	0.42
1:AA:854:G:OP2	1:AA:871:U:O2	2.38	0.42
1:AA:965:A:N6	15:AP:126:LYS:OXT	2.52	0.42
1:AA:996:A:N1	1:AA:997:U:C4	2.88	0.42
3:AB:20:U:H3'	3:AB:21:A:H5''	1.99	0.42
3:AC:10:G:C6	3:AC:11:C:N4	2.88	0.42
3:AD:2:C:H2'	3:AD:3:C:H6	1.80	0.42
4:AE:138:LEU:H	4:AE:138:LEU:HG	1.68	0.42
4:AE:140:HIS:C	4:AE:143:GLU:HB3	2.39	0.42
4:AE:95:GLN:CD	4:AE:148:TYR:HB3	2.35	0.42
4:AE:84:GLU:CA	4:AE:84:GLU:OE2	2.68	0.42
5:AF:29:TYR:CD2	5:AF:29:TYR:O	2.60	0.42
6:AG:101:LEU:HD21	6:AG:121:VAL:CG1	2.50	0.42
7:AH:109:ILE:HD11	7:AH:136:MET:SD	2.59	0.42
7:AH:129:ILE:O	7:AH:132:ALA:N	2.53	0.42
7:AH:96:PRO:C	7:AH:98:THR:H	2.17	0.42
9:AJ:101:LEU:O	9:AJ:102:ARG:C	2.58	0.42
9:AJ:38:LEU:CA	9:AJ:41:ARG:HG3	2.45	0.42
9:AJ:41:ARG:CG	9:AJ:41:ARG:HH11	2.32	0.42
9:AJ:51:GLN:HE22	9:AJ:58:PRO:CD	2.33	0.42
9:AJ:76:ARG:O	9:AJ:156:TRP:CZ2	2.72	0.42
10:AK:111:ILE:HD12	10:AK:136:GLU:HA	2.00	0.42
10:AK:67:PRO:C	10:AK:68:ARG:O	2.56	0.42
10:AK:69:ARG:NH1	10:AK:69:ARG:HG3	2.34	0.42
11:AL:17:VAL:HG11	11:AL:81:ILE:HG12	2.02	0.42
11:AL:33:PHE:CE2	11:AL:43:ALA:O	2.73	0.42
11:AL:40:LEU:HB3	11:AL:42:ARG:CB	2.29	0.42
12:AM:16:LEU:HD12	12:AM:70:ARG:HG2	2.00	0.42
1:AA:969:A:C2'	12:AM:55:LYS:HZ1	2.29	0.42
13:AN:42:TRP:CE3	13:AN:43:SER:CA	2.91	0.42
13:AN:50:TYR:CE1	13:AN:60:ALA:HB2	2.54	0.42
14:AO:23:LYS:HE3	14:AO:23:LYS:CA	2.15	0.42
14:AO:33:ARG:O	14:AO:84:LEU:CG	2.62	0.42
14:AO:84:LEU:C	14:AO:84:LEU:CD2	2.83	0.42
14:AO:46:LYS:HZ3	14:AO:94:PRO:CG	2.32	0.42
17:AR:65:ARG:O	17:AR:66:LEU:C	2.57	0.42
17:AR:76:GLU:C	17:AR:78:TYR:N	2.72	0.42
18:AS:32:TYR:O	18:AS:33:ILE:C	2.57	0.42
18:AS:35:LYS:HD2	18:AS:35:LYS:C	2.38	0.42
19:AT:17:LYS:HE3	19:AT:48:GLU:CA	2.45	0.42
20:AU:22:VAL:C	20:AU:24:ALA:N	2.71	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:AU:80:PRO:O	20:AU:82:THR:N	2.53	0.42
22:AW:22:ARG:O	22:AW:23:ARG:C	2.57	0.42
22:AW:49:ALA:HB3	22:AW:99:LEU:CG	2.49	0.42
51:B4:15:ARG:O	51:B4:18:ALA:HB3	2.20	0.42
52:B5:25:LYS:HG2	52:B5:26:ASN:N	2.34	0.42
53:B6:34:ARG:NH2	53:B6:42:LEU:HG	2.34	0.42
54:B7:2:PRO:HB2	54:B7:4:MET:CE	2.39	0.42
54:B7:26:LYS:HZ3	54:B7:43:GLN:HA	1.83	0.42
54:B7:9:GLY:C	54:B7:14:VAL:HG11	2.40	0.42
55:B8:15:LYS:O	55:B8:25:VAL:HA	2.19	0.42
24:BA:1096:A:C6	33:BL:26:ALA:HB1	2.54	0.42
24:BA:1177:A:C6	24:BA:1178:C:N4	2.88	0.42
24:BA:974(A):C:H1'	24:BA:1186:G:N2	2.35	0.42
24:BA:1225:C:C4'	42:BU:87:HIS:CE1	3.02	0.42
24:BA:1242:A:H5''	24:BA:1243:G:OP2	2.19	0.42
24:BA:1388:G:C4	24:BA:1400:G:N2	2.87	0.42
24:BA:1454:U:H5'	24:BA:1455:G:P	2.58	0.42
24:BA:1469:A:C8	24:BA:1469:A:C3'	3.02	0.42
24:BA:1559:G:C4	24:BA:1559:G:C3'	2.76	0.42
24:BA:1569:A:N1	24:BA:1570:A:C6	2.87	0.42
24:BA:1571:A:C2'	24:BA:1571:A:N3	2.83	0.42
24:BA:1639:U:C2'	24:BA:1640:C:H5''	2.42	0.42
24:BA:1684:C:N3	24:BA:1705:G:C2	2.88	0.42
24:BA:1727:U:C2'	24:BA:1728:G:OP1	2.68	0.42
24:BA:171:G:C2	24:BA:172:C:N3	2.88	0.42
24:BA:1732:A:OP1	24:BA:1733:G:C4	2.72	0.42
24:BA:1741:C:O2'	24:BA:1742:C:O4'	2.38	0.42
24:BA:1772:G:O2'	24:BA:1773:A:H4'	2.19	0.42
24:BA:1806:C:H2'	24:BA:1807:G:O5'	2.19	0.42
24:BA:1967:C:H2'	24:BA:1968:G:H5'	2.00	0.42
24:BA:1993:U:C5	24:BA:1994:C:H5	2.34	0.42
24:BA:1661:G:N1	24:BA:2000:G:C4	2.88	0.42
24:BA:2032:G:H4'	24:BA:2033:A:OP1	2.19	0.42
24:BA:2052:G:C4	24:BA:2053:G:N7	2.87	0.42
24:BA:2292:C:H2'	24:BA:2293:C:C6	2.54	0.42
24:BA:2262:U:C4'	24:BA:2328:A:C2	2.97	0.42
24:BA:2349:G:C6	24:BA:2369:A:C6	3.08	0.42
24:BA:2352:A:O2'	24:BA:2353:G:H5'	2.19	0.42
24:BA:2351:G:H22	24:BA:2365:G:H2'	1.85	0.42
24:BA:2074:U:C2	24:BA:2436:G:C2	3.08	0.42
24:BA:2538:C:C2	24:BA:2539:C:H5	2.33	0.42
24:BA:2544:G:C2'	24:BA:2545:G:C5'	2.98	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2640:G:C5	24:BA:2641:G:N7	2.88	0.42
24:BA:2658:C:C2'	24:BA:2659:G:C5'	2.64	0.42
24:BA:2698:U:N3	24:BA:2699:C:N4	2.67	0.42
24:BA:2707:G:O2'	38:BQ:68:ARG:HG3	2.20	0.42
24:BA:270(L):U:O2	24:BA:270(M):U:C5	2.72	0.42
24:BA:2758:A:C5	24:BA:2759:G:N7	2.87	0.42
24:BA:2797:U:OP1	24:BA:2799:A:O4'	2.38	0.42
24:BA:2845:G:C4	24:BA:2846:G:C8	3.08	0.42
24:BA:2721:A:C2	24:BA:2873:A:N1	2.88	0.42
24:BA:310:A:C5	24:BA:312:G:C4	3.08	0.42
24:BA:329:G:O2'	24:BA:330:A:OP1	2.31	0.42
24:BA:295:G:N9	24:BA:345:A:C2	2.87	0.42
24:BA:418:G:C2	24:BA:419:C:C6	3.08	0.42
24:BA:449:A:N3	24:BA:450:G:C8	2.88	0.42
24:BA:450:G:C8	24:BA:450:G:O5'	2.68	0.42
24:BA:531:C:C2'	24:BA:531:C:O2	2.68	0.42
24:BA:600:G:H2'	24:BA:600:G:N3	2.35	0.42
24:BA:601:C:HO2'	24:BA:602:G:H5'	1.83	0.42
24:BA:608:A:C2'	24:BA:609:A:H5'	2.49	0.42
24:BA:659:C:C2	24:BA:660:G:C8	3.07	0.42
24:BA:666:G:O2'	24:BA:667:U:C5'	2.68	0.42
24:BA:769:G:C6	24:BA:770:G:N7	2.88	0.42
24:BA:800:A:C8	24:BA:802:A:H5'	2.55	0.42
24:BA:863:A:C2	24:BA:864:G:C6	3.08	0.42
24:BA:7:G:C2	24:BA:8:A:C4	3.07	0.42
24:BA:909:A:C2	24:BA:912:C:C6	3.08	0.42
24:BA:971:C:H4'	24:BA:983:A:O2'	2.19	0.42
25:BB:73:A:C6	25:BB:104:A:H1'	2.55	0.42
25:BB:110:G:N3	25:BB:111:U:H1'	2.35	0.42
25:BB:15:A:H4'	25:BB:16:G:OP2	2.19	0.42
25:BB:55:U:O2'	25:BB:56:G:C5'	2.57	0.42
27:BD:136:ILE:CD1	27:BD:173:VAL:HG11	2.40	0.42
27:BD:226:MET:HB3	27:BD:227:ASN:H	1.36	0.42
27:BD:51:VAL:HG12	27:BD:52:ARG:HD3	2.02	0.42
27:BD:75:ILE:HD13	27:BD:99:ASP:CG	2.40	0.42
28:BE:127:ASP:CG	28:BE:135:HIS:N	2.72	0.42
28:BE:1:MET:O	28:BE:2:LYS:HG3	2.20	0.42
28:BE:64:LYS:O	28:BE:67:PHE:CB	2.67	0.42
28:BE:53:PRO:CG	28:BE:75:VAL:CG2	2.86	0.42
24:BA:659:C:C4'	29:BF:102:PRO:CD	2.97	0.42
29:BF:53:THR:O	29:BF:55:GLY:N	2.51	0.42
30:BG:19:LEU:HA	30:BG:22:ARG:HG2	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:BG:26:GLN:CD	30:BG:29:TRP:CE3	2.91	0.42
31:BH:118:PRO:CD	31:BH:121:ILE:HD13	2.29	0.42
31:BH:156:ALA:C	31:BH:157:TYR:CG	2.92	0.42
24:BA:558:G:OP1	34:BM:109:LYS:CG	2.67	0.42
34:BM:25:ARG:O	34:BM:29:LYS:HG3	2.20	0.42
34:BM:39:ARG:HG2	34:BM:40:PRO:HD2	2.02	0.42
34:BM:7:LYS:CD	34:BM:39:ARG:NH2	2.82	0.42
34:BM:39:ARG:CG	34:BM:40:PRO:HD2	2.50	0.42
34:BM:95:PRO:CA	34:BM:98:VAL:HG23	2.46	0.42
35:BN:114:ILE:HG22	35:BN:115:VAL:N	2.32	0.42
24:BA:627:A:H5''	36:BO:75:ILE:CG2	2.50	0.42
36:BO:86:LYS:NZ	36:BO:99:LEU:CD1	2.83	0.42
37:BP:78:PRO:C	37:BP:79:LEU:HD23	2.38	0.42
37:BP:72:LYS:O	37:BP:93:TYR:HA	2.20	0.42
39:BR:11:LYS:N	39:BR:11:LYS:HD2	2.33	0.42
39:BR:17:ARG:HH11	39:BR:25:ARG:HD2	1.82	0.42
39:BR:34:HIS:O	39:BR:35:ILE:O	2.37	0.42
39:BR:66:ALA:C	39:BR:68:GLN:N	2.72	0.42
40:BS:78:LEU:HD23	40:BS:79:HIS:H	1.83	0.42
41:BT:97:ASP:O	41:BT:100:VAL:HG23	2.20	0.42
43:BV:12:ILE:H	43:BV:12:ILE:CD1	2.32	0.42
44:BW:54:VAL:HG22	44:BW:81:VAL:CG2	2.40	0.42
44:BW:63:LYS:N	44:BW:72:LYS:HG2	2.24	0.42
44:BW:83:VAL:HG11	44:BW:87:GLN:O	2.20	0.42
46:BY:103:ARG:O	46:BY:138:GLU:HA	2.20	0.42
46:BY:160:GLY:O	46:BY:161:VAL:O	2.38	0.42
46:BY:118:GLN:CD	46:BY:172:ALA:HB1	2.40	0.42
24:BA:858:U:OP1	47:BZ:44:ARG:CZ	2.68	0.42
47:BZ:84:LEU:HB3	47:BZ:85:ALA:H	1.57	0.42
32:BK:81:VAL:HG21	32:BK:123:LEU:CD1	2.49	0.42
32:BK:93:THR:O	32:BK:96:ASP:CB	2.66	0.42
26:BC:223:ARG:CB	26:BC:223:ARG:HH11	2.33	0.42
24:BA:1414:G:C2	24:BA:1415:U:C2	3.07	0.42
24:BA:1038:C:O2	24:BA:1038:C:H2'	2.19	0.42
2:A1:39:U:H6	2:A1:39:U:H3'	1.85	0.42
1:AA:101:A:N3	1:AA:102:G:C8	2.88	0.42
1:AA:1004:A:C3'	1:AA:1025:U:C4	2.89	0.42
1:AA:1053:G:O3'	1:AA:1054:C:H4'	2.19	0.42
1:AA:1103:C:C2	1:AA:1104:G:C8	3.07	0.42
1:AA:1130:A:C2	1:AA:1146:A:C2	3.07	0.42
1:AA:1130:A:C6	1:AA:1146:A:N1	2.88	0.42
1:AA:113:G:C5	1:AA:114:U:C4	3.07	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1183:A:C2'	1:AA:1184:G:OP1	2.68	0.42
1:AA:1324:A:C2	1:AA:1325:C:C6	3.07	0.42
1:AA:1331:G:HO2'	1:AA:1332:A:P	2.43	0.42
1:AA:1386:G:O2'	1:AA:1387:G:C5'	2.68	0.42
1:AA:1455:G:H5''	22:AW:31:SER:OG	2.19	0.42
1:AA:1494:G:C2	1:AA:1495:U:C4	3.08	0.42
1:AA:151:A:C6	1:AA:152:A:N3	2.87	0.42
1:AA:258:G:C6	1:AA:259:G:C5	3.08	0.42
1:AA:265:G:H5'	19:AT:64:PRO:C	2.40	0.42
1:AA:265:G:C8	1:AA:267:C:C4	3.08	0.42
1:AA:7:G:H1'	1:AA:298:A:C4	2.53	0.42
1:AA:390:C:H2'	1:AA:391:G:C8	2.46	0.42
1:AA:392:G:C4	1:AA:393:A:C8	3.08	0.42
1:AA:373:A:C5	1:AA:482:A:N7	2.88	0.42
1:AA:576:G:N7	1:AA:881:G:O4'	2.53	0.42
1:AA:66:G:H2'	1:AA:67:C:O5'	2.20	0.42
1:AA:66:G:H8	1:AA:66:G:P	2.42	0.42
1:AA:701:C:H5''	1:AA:702:A:C3'	2.49	0.42
1:AA:680:C:C2	1:AA:711:G:C2	3.08	0.42
1:AA:577:G:C1'	1:AA:816:A:C2	3.03	0.42
1:AA:831:U:H2'	1:AA:832:C:O4'	2.18	0.42
1:AA:848:C:O2'	1:AA:849:C:C5'	2.66	0.42
1:AA:865:A:C5	1:AA:866:C:O2	2.73	0.42
1:AA:880:C:OP2	14:AO:9:GLN:NE2	2.52	0.42
1:AA:924:C:H2'	1:AA:925:G:O5'	2.19	0.42
1:AA:979:C:C5	1:AA:980:C:C5	3.08	0.42
3:AB:57:G:H2'	3:AB:57:G:N3	2.34	0.42
3:AB:15:G:C4	3:AB:59:U:O2	2.73	0.42
3:AD:73:A:C2'	3:AD:74:C:OP1	2.68	0.42
4:AE:163:PHE:CD1	4:AE:185:ILE:O	2.72	0.42
4:AE:187:LEU:C	4:AE:187:LEU:CD1	2.81	0.42
4:AE:187:LEU:HB2	4:AE:201:ILE:HG22	2.02	0.42
4:AE:23:ARG:H	4:AE:23:ARG:HG3	1.46	0.42
5:AF:120:VAL:HG13	5:AF:133:ALA:HB1	2.00	0.42
5:AF:33:LEU:HD23	5:AF:36:ASP:HB3	2.01	0.42
5:AF:83:ARG:C	5:AF:87:LEU:HG	2.40	0.42
6:AG:126:ILE:H	6:AG:132:ARG:HD2	1.84	0.42
6:AG:179:GLU:C	6:AG:181:MET:H	2.21	0.42
6:AG:73:ARG:O	6:AG:74:GLN:C	2.58	0.42
6:AG:88:VAL:O	6:AG:92:VAL:HG23	2.20	0.42
6:AG:97:LEU:O	6:AG:103:ASN:ND2	2.49	0.42
7:AH:100:VAL:HG11	7:AH:107:ARG:CG	2.34	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AH:152:ARG:HD3	7:AH:152:ARG:O	2.20	0.42
7:AH:34:VAL:HG23	7:AH:62:ALA:HB1	2.02	0.42
8:AI:21:LEU:HD12	8:AI:24:GLU:OE1	2.19	0.42
9:AJ:12:LEU:HD11	9:AJ:21:VAL:HB	2.02	0.42
9:AJ:152:ALA:C	9:AJ:154:TYR:H	2.22	0.42
9:AJ:88:PRO:HD2	9:AJ:152:ALA:CA	2.49	0.42
9:AJ:93:PRO:O	9:AJ:96:GLN:N	2.53	0.42
10:AK:104:ARG:HB2	10:AK:107:LEU:HG	2.02	0.42
10:AK:5:PRO:O	10:AK:8:ASP:CB	2.54	0.42
11:AL:97:LYS:CE	11:AL:102:LEU:HD13	2.48	0.42
12:AM:16:LEU:H	12:AM:16:LEU:CD2	2.33	0.42
13:AN:71:LYS:HG3	13:AN:72:ALA:N	2.35	0.42
15:AP:6:GLY:HA2	30:BG:114:ILE:CD1	2.49	0.42
15:AP:96:LEU:C	15:AP:110:ARG:HG2	2.40	0.42
12:AM:49:VAL:CG1	16:AQ:41:ARG:HB2	2.49	0.42
5:AF:40:ARG:HE	16:AQ:52:GLN:NE2	2.18	0.42
17:AR:66:LEU:O	17:AR:67:LEU:C	2.58	0.42
19:AT:104:LYS:CD	19:AT:105:ALA:N	2.79	0.42
19:AT:53:LEU:O	19:AT:53:LEU:CG	2.66	0.42
19:AT:60:ILE:HG12	19:AT:61:GLU:N	2.34	0.42
20:AU:18:ARG:HH21	20:AU:21:LYS:CG	2.33	0.42
20:AU:58:LEU:HD13	20:AU:66:LEU:CD2	2.49	0.42
21:AV:22:LEU:CA	21:AV:25:LYS:NZ	2.83	0.42
50:B3:58:ARG:HB3	50:B3:59:PHE:H	1.35	0.42
50:B3:59:PHE:HA	50:B3:62:ARG:CZ	2.49	0.42
51:B4:11:THR:HG23	51:B4:15:ARG:CG	2.49	0.42
52:B5:16:CYS:O	52:B5:19:ARG:HD3	2.20	0.42
53:B6:25:PRO:HA	53:B6:28:ARG:CZ	2.50	0.42
54:B7:12:LYS:O	54:B7:14:VAL:HG23	2.18	0.42
24:BA:1045:A:O2'	24:BA:1047:G:C5'	2.67	0.42
24:BA:1049:C:N3	24:BA:1050:A:C5	2.88	0.42
24:BA:1059:G:N7	24:BA:1060:U:H1'	2.34	0.42
24:BA:1062:G:O5'	24:BA:1070:A:H5'	2.19	0.42
24:BA:1155:A:C3'	24:BA:1155:A:P	3.08	0.42
24:BA:1250:G:HO2'	24:BA:1251:C:P	2.38	0.42
24:BA:1364:G:N7	50:B3:2:LYS:CB	2.68	0.42
24:BA:1372:U:C6	24:BA:1372:U:H3'	2.54	0.42
24:BA:1373:A:H2'	24:BA:1374:G:H8	1.79	0.42
24:BA:1466:G:C2'	24:BA:1547:C:N4	2.57	0.42
24:BA:1516:U:C6	24:BA:1517:G:N7	2.88	0.42
24:BA:1704:G:C6	24:BA:1705:G:C5	3.08	0.42
24:BA:1912:A:C8	24:BA:1913:A:C1'	2.96	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1913:A:C5	24:BA:1918:A:N7	2.88	0.42
24:BA:1967:C:O2	24:BA:1968:G:O4'	2.38	0.42
24:BA:197:A:C4	24:BA:198:C:C6	3.08	0.42
24:BA:2002:G:C6	24:BA:2003:G:N7	2.87	0.42
24:BA:2093:G:O2'	24:BA:2094:G:H5'	2.19	0.42
24:BA:217:G:H2'	24:BA:218:A:C5'	2.50	0.42
24:BA:192:C:OP1	24:BA:2243:U:OP1	2.38	0.42
24:BA:2289:G:N7	24:BA:2289:G:OP2	2.52	0.42
24:BA:2521:C:O2	24:BA:2522:U:C1'	2.67	0.42
24:BA:2582:G:C3'	24:BA:2583:G:H5'	2.49	0.42
24:BA:2603:G:OP2	47:BZ:1:MET:CB	2.61	0.42
24:BA:221:A:C8	24:BA:266:G:N7	2.88	0.42
24:BA:2683:C:C5	24:BA:2684:U:C5	3.07	0.42
24:BA:2716:U:C2	24:BA:2717:G:N7	2.87	0.42
24:BA:2729:G:C5	24:BA:2730:C:C5	3.07	0.42
24:BA:2808:U:H3'	24:BA:2809:A:C5'	2.49	0.42
24:BA:2820:A:O3'	38:BQ:4:LEU:CD2	2.63	0.42
24:BA:2843:G:C2	24:BA:2844:G:C8	3.08	0.42
24:BA:2887:U:N3	24:BA:2888:C:C4	2.88	0.42
24:BA:311:A:HO2'	24:BA:312:G:P	2.43	0.42
24:BA:344:G:C2	24:BA:345:A:N6	2.88	0.42
24:BA:374:A:C4	24:BA:375:C:C6	3.08	0.42
24:BA:216:A:N6	24:BA:431:U:H3	2.13	0.42
24:BA:449:A:H4'	29:BF:52:LYS:HZ2	1.82	0.42
24:BA:451:C:H2'	24:BA:453:C:H5	1.84	0.42
24:BA:460:A:C2'	24:BA:461:C:C6	2.92	0.42
24:BA:459:U:O2'	24:BA:460:A:H5'	2.20	0.42
24:BA:544:C:H2'	24:BA:545:G:C5'	2.50	0.42
24:BA:545:G:O3'	24:BA:546:C:C5	2.72	0.42
24:BA:576:U:OP1	24:BA:2503:A:OP1	2.38	0.42
24:BA:593:G:C6	24:BA:594:U:C5	3.07	0.42
24:BA:621:A:C2'	24:BA:622:G:H5'	2.35	0.42
24:BA:667:U:H2'	24:BA:668:G:C1'	2.50	0.42
24:BA:713:G:C2'	24:BA:713:G:N3	2.78	0.42
24:BA:733:G:C6	24:BA:761:A:C5	3.08	0.42
24:BA:738:G:C6	24:BA:759:G:O6	2.73	0.42
24:BA:749:C:OP2	43:BV:88:ARG:NH1	2.47	0.42
24:BA:764:A:H3'	24:BA:765:G:C5'	2.49	0.42
24:BA:774:A:C8	24:BA:775:G:N7	2.88	0.42
24:BA:863:A:N1	24:BA:864:G:C6	2.88	0.42
24:BA:944:G:O6	36:BO:35:HIS:NE2	2.53	0.42
24:BA:957:A:OP1	37:BP:76:LYS:HA	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:978:G:N2	24:BA:979:G:C2	2.88	0.42
25:BB:16:G:C6	25:BB:17:C:C4	3.07	0.42
25:BB:19:G:N2	25:BB:20:C:C2	2.88	0.42
25:BB:57:A:N3	30:BG:29:TRP:CD1	2.87	0.42
27:BD:141:VAL:O	27:BD:194:GLY:N	2.47	0.42
27:BD:183:ARG:CG	27:BD:268:ARG:HD2	2.49	0.42
27:BD:209:ALA:O	27:BD:213:ARG:CG	2.67	0.42
24:BA:2589:A:OP1	27:BD:226:MET:SD	2.77	0.42
27:BD:27:THR:HG21	27:BD:82:ILE:CG2	2.50	0.42
28:BE:137:HIS:N	28:BE:137:HIS:ND1	2.66	0.42
29:BF:5:ALA:O	29:BF:7:TYR:HD1	2.03	0.42
29:BF:63:LYS:C	29:BF:64:ILE:CG2	2.88	0.42
15:AP:7:VAL:CG1	30:BG:140:ILE:HG13	2.50	0.42
30:BG:139:LEU:C	30:BG:142:PRO:HD3	2.40	0.42
30:BG:55:LYS:HZ1	30:BG:152:LEU:HD11	1.83	0.42
30:BG:1:MET:O	30:BG:3:LEU:N	2.52	0.42
34:BM:115:ARG:HA	34:BM:118:LYS:CG	2.49	0.42
35:BN:12:ASP:OD2	35:BN:93:PRO:HG3	2.19	0.42
36:BO:80:TYR:OH	36:BO:100:LEU:HD21	2.19	0.42
36:BO:124:LYS:HB3	36:BO:143:GLY:CA	2.50	0.42
36:BO:126:VAL:CA	36:BO:145:PRO:HA	2.49	0.42
36:BO:46:LYS:CA	36:BO:49:ARG:NH1	2.82	0.42
37:BP:42:ILE:HD11	37:BP:46:GLN:HE21	1.82	0.42
37:BP:34:LEU:CG	37:BP:67:ARG:NH2	2.79	0.42
38:BQ:53:HIS:CD2	38:BQ:56:LYS:HZ1	2.35	0.42
38:BQ:96:ARG:HG2	38:BQ:98:LEU:HD12	1.98	0.42
25:BB:9:G:C4'	39:BR:43:GLU:OE2	2.62	0.42
39:BR:70:GLY:O	39:BR:73:LEU:N	2.53	0.42
40:BS:50:ILE:CG2	40:BS:68:TYR:CB	2.98	0.42
40:BS:6:LEU:CD2	40:BS:7:ILE:N	2.82	0.42
41:BT:17:ILE:HG21	41:BT:36:ARG:HD3	2.02	0.42
41:BT:48:ALA:C	41:BT:52:ARG:NE	2.73	0.42
42:BU:12:TYR:OH	42:BU:14:VAL:O	2.35	0.42
42:BU:1:MET:SD	42:BU:15:GLU:OE2	2.78	0.42
24:BA:1161:C:O2'	42:BU:22:VAL:CG1	2.68	0.42
42:BU:25:LEU:HD23	42:BU:28:GLU:HB2	2.02	0.42
24:BA:814:C:P	42:BU:85:LYS:HB2	2.59	0.42
43:BV:65:LEU:HB2	43:BV:68:ARG:HD3	2.01	0.42
44:BW:15:GLU:O	44:BW:18:TYR:HB2	2.19	0.42
46:BY:15:PRO:HB2	46:BY:19:ARG:NH1	2.35	0.42
46:BY:77:ASP:O	46:BY:78:LYS:O	2.37	0.42
46:BY:19:ARG:HH21	46:BY:84:GLU:CA	2.32	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:BK:92:VAL:HB	32:BK:120:ILE:HG23	2.01	0.42
24:BA:2114:A:O5'	24:BA:2114:A:C8	2.66	0.42
24:BA:2160:G:O2'	24:BA:2161:C:C5'	2.68	0.42
26:BC:103:ILE:CG2	26:BC:108:MET:SD	3.08	0.42
26:BC:156:ILE:HA	26:BC:160:ARG:HB2	2.01	0.42
1:AA:164:U:O2	1:AA:164:U:C2'	2.64	0.42
1:AA:1164:G:C6	1:AA:1165:C:C4	3.07	0.42
1:AA:443:C:N1	1:AA:492:G:N2	2.67	0.42
22:AW:8:ARG:CB	22:AW:8:ARG:NH1	2.82	0.42
1:AA:1537:U:C2	1:AA:1538:C:C5	3.08	0.42
4:AE:228:GLY:O	4:AE:230:VAL:HG23	2.19	0.42
1:AA:1001:G:C8	1:AA:1001:G:H3'	2.55	0.42
1:AA:1084:G:OP1	1:AA:1086:U:C1'	2.68	0.42
1:AA:1127:G:N2	1:AA:1147:C:N4	2.67	0.42
1:AA:1262:C:O5'	1:AA:1262:C:H6	2.02	0.42
1:AA:1268:A:O2'	1:AA:1269:A:O5'	2.38	0.42
1:AA:1298:C:C2'	1:AA:1298:C:O2	2.59	0.42
1:AA:1325:C:H2'	1:AA:1326:C:C6	2.54	0.42
1:AA:1326:C:OP1	23:AX:17:THR:OG1	2.23	0.42
1:AA:1324:A:C4'	1:AA:1362:C:H4'	2.48	0.42
1:AA:1404:C:C2	1:AA:1405:G:C8	3.08	0.42
1:AA:1433:A:C2'	1:AA:1434:A:H5'	2.50	0.42
1:AA:1476:G:C2	1:AA:1477:C:C4	3.07	0.42
1:AA:1508:G:HO2'	1:AA:1509:C:H5'	1.85	0.42
1:AA:1534:A:C2	1:AA:1535:C:C6	3.08	0.42
1:AA:236:G:C2'	1:AA:237:C:H6	2.33	0.42
1:AA:278:G:N2	1:AA:279:A:N6	2.67	0.42
1:AA:35:G:C5	1:AA:36:C:C5	3.08	0.42
1:AA:44:G:C2	1:AA:399:G:C2	3.08	0.42
1:AA:424:G:H8	1:AA:424:G:O5'	2.02	0.42
1:AA:42:G:C4	1:AA:43:C:C5	3.08	0.42
1:AA:450:G:H3'	1:AA:481:G:H1	1.84	0.42
1:AA:573:A:C2'	1:AA:574:A:C8	2.92	0.42
1:AA:578:C:C6	1:AA:578:C:H3'	2.55	0.42
1:AA:589:C:H1'	1:AA:653:A:N6	2.35	0.42
1:AA:730:G:N7	1:AA:731:G:C1'	2.78	0.42
1:AA:748:C:O2'	1:AA:749:C:O4'	2.38	0.42
1:AA:78:G:C6	1:AA:79:G:N7	2.88	0.42
1:AA:821:G:C6	1:AA:880:C:N3	2.88	0.42
1:AA:843:U:H3'	1:AA:848:C:O4'	2.19	0.42
1:AA:879:C:N3	1:AA:880:C:C5	2.88	0.42
1:AA:912:C:OP1	14:AO:94:PRO:HG3	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:953:G:N1	1:AA:1229:A:C6	2.88	0.42
3:AD:74:C:OP2	50:B3:22:ILE:CG1	2.67	0.42
4:AE:125:PRO:C	4:AE:127:ILE:HG13	2.40	0.42
4:AE:119:GLU:OE1	4:AE:142:LEU:HD21	2.18	0.42
4:AE:171:ALA:O	4:AE:174:VAL:CB	2.63	0.42
4:AE:189:ASP:HB2	4:AE:205:ASP:CG	2.40	0.42
4:AE:207:ALA:O	4:AE:208:ILE:C	2.58	0.42
4:AE:20:GLU:O	4:AE:39:ILE:CG1	2.64	0.42
4:AE:43:ASP:O	4:AE:44:LEU:O	2.38	0.42
4:AE:69:LEU:CD1	4:AE:69:LEU:C	2.87	0.42
1:AA:421:U:O2	5:AF:127:ARG:CZ	2.68	0.42
5:AF:12:LEU:HD11	5:AF:18:TRP:CZ2	2.55	0.42
5:AF:12:LEU:HD22	16:AQ:58:LYS:HB2	2.01	0.42
5:AF:129:ALA:CB	5:AF:132:ARG:HD2	2.49	0.42
5:AF:36:ASP:OD2	5:AF:36:ASP:O	2.36	0.42
5:AF:40:ARG:O	5:AF:44:GLU:HG3	2.19	0.42
5:AF:74:GLY:C	5:AF:76:VAL:N	2.71	0.42
6:AG:181:MET:O	6:AG:181:MET:HE2	2.19	0.42
6:AG:31:CYS:O	6:AG:33:MET:SD	2.78	0.42
6:AG:96:LEU:O	6:AG:97:LEU:C	2.58	0.42
7:AH:109:ILE:CD1	7:AH:136:MET:SD	3.08	0.42
7:AH:33:VAL:C	7:AH:34:VAL:CG2	2.87	0.42
7:AH:83:GLU:HG2	7:AH:88:LYS:HE2	2.02	0.42
8:AI:62:TRP:CD1	20:AU:35:ARG:NH2	2.88	0.42
8:AI:97:PHE:CD2	20:AU:31:LEU:HD22	2.54	0.42
9:AJ:49:ILE:N	9:AJ:49:ILE:HD12	2.34	0.42
9:AJ:75:VAL:HG13	9:AJ:87:VAL:N	2.35	0.42
3:AD:32:U:H1'	9:AJ:86:GLN:HE22	1.84	0.42
9:AJ:77:SER:OG	9:AJ:86:GLN:OE1	2.37	0.42
10:AK:104:ARG:C	10:AK:106:GLY:N	2.73	0.42
10:AK:109:ILE:HG12	10:AK:137:VAL:C	2.40	0.42
10:AK:35:ILE:N	10:AK:35:ILE:HD13	2.35	0.42
10:AK:46:LYS:NZ	10:AK:65:TYR:H	2.11	0.42
11:AL:121:ARG:CG	11:AL:121:ARG:NH1	2.81	0.42
11:AL:17:VAL:HG11	11:AL:81:ILE:CA	2.48	0.42
11:AL:33:PHE:CZ	11:AL:46:ALA:HB3	2.54	0.42
11:AL:98:PRO:O	11:AL:100:GLY:N	2.51	0.42
12:AM:47:PHE:HZ	12:AM:65:LEU:CB	2.33	0.42
12:AM:52:GLY:O	12:AM:53:PRO:C	2.57	0.42
13:AN:54:ARG:HH11	13:AN:54:ARG:CG	2.22	0.42
14:AO:61:THR:O	14:AO:62:SER:CB	2.68	0.42
14:AO:82:VAL:HG12	14:AO:105:TYR:CD1	2.55	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AP:19:LEU:HB2	15:AP:25:ILE:HG21	2.00	0.42
15:AP:78:ILE:C	15:AP:81:LEU:HD13	2.39	0.42
18:AS:9:PHE:CE2	18:AS:18:ARG:HG3	2.52	0.42
21:AV:33:THR:HG21	21:AV:49:ILE:CD1	2.43	0.42
22:AW:72:LEU:HD13	22:AW:77:ALA:HA	2.02	0.42
22:AW:74:LYS:HD3	22:AW:74:LYS:N	2.35	0.42
48:B1:29:GLU:C	48:B1:33:GLN:OE1	2.58	0.42
49:B2:43:ILE:O	49:B2:47:VAL:HG23	2.20	0.42
49:B2:55:ARG:HG3	49:B2:55:ARG:NH2	2.33	0.42
24:BA:1366:A:OP1	50:B3:1:MET:HA	2.20	0.42
51:B4:34:PRO:HD3	51:B4:40:LYS:NZ	2.35	0.42
24:BA:464:U:C1'	53:B6:12:ARG:HH22	2.33	0.42
53:B6:21:ARG:O	53:B6:28:ARG:N	2.52	0.42
54:B7:5:LYS:HB2	54:B7:60:LEU:CA	2.37	0.42
55:B8:19:ARG:O	55:B8:19:ARG:CG	2.68	0.42
24:BA:1131:G:N3	34:BM:74:ARG:HD2	2.35	0.42
24:BA:1148:A:N1	24:BA:1149:G:C6	2.87	0.42
24:BA:1165:U:O2'	24:BA:1166:C:C6	2.68	0.42
24:BA:816:C:C4	24:BA:1192:G:N1	2.88	0.42
24:BA:1268:A:OP2	24:BA:2005:A:H5''	2.19	0.42
24:BA:1296:G:O2'	24:BA:1297:C:O5'	2.30	0.42
24:BA:1322:A:OP1	43:BV:11:ARG:NE	2.47	0.42
24:BA:1391:U:C2	24:BA:1394:U:H5	2.37	0.42
24:BA:1527:G:N7	24:BA:1541:U:O4	2.52	0.42
24:BA:1561:G:H8	24:BA:1561:G:O5'	2.02	0.42
24:BA:1569:A:O3'	27:BD:39:LYS:CE	2.66	0.42
24:BA:1615:C:N4	24:BA:1617:C:C2	2.87	0.42
24:BA:1726:G:C5	24:BA:1727:U:C4	3.08	0.42
24:BA:1731:G:C3'	24:BA:1731:G:N3	2.83	0.42
24:BA:1777:U:C2'	24:BA:1778:U:C5'	2.97	0.42
24:BA:1363:C:C1'	24:BA:1810:A:H1'	2.49	0.42
24:BA:1843:C:O2	24:BA:1844:C:C6	2.73	0.42
24:BA:1855:G:C5	24:BA:1856:G:N7	2.88	0.42
24:BA:1884:A:P	24:BA:1884:A:O4'	2.78	0.42
24:BA:1988:C:C2	24:BA:1989:G:C8	3.08	0.42
24:BA:2026:C:H2'	24:BA:2027:G:O4'	2.20	0.42
24:BA:2209:C:O2'	24:BA:2210:G:C3'	2.67	0.42
24:BA:2302:G:C2	24:BA:2303:G:C8	3.08	0.42
24:BA:2331:G:N2	24:BA:2385:C:C5	2.88	0.42
24:BA:830:G:H1'	24:BA:2448:A:N1	2.35	0.42
24:BA:2466:C:OP1	55:B8:5:ALA:CB	2.65	0.42
24:BA:2554:U:C5	24:BA:2556:C:N3	2.86	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2567:G:H2'	24:BA:2568:C:H6	1.82	0.42
24:BA:2570:G:N2	24:BA:2571:C:C1'	2.83	0.42
24:BA:2688:U:N3	24:BA:2719:G:N3	2.62	0.42
24:BA:2722:G:C6	24:BA:2723:C:C4	3.07	0.42
24:BA:2765:A:C2'	24:BA:2766:G:OP1	2.67	0.42
24:BA:2776:A:C4	24:BA:2778:A:C8	3.08	0.42
24:BA:2820:A:N6	28:BE:192:ASN:O	2.53	0.42
24:BA:283:A:H3'	24:BA:283:A:OP1	2.20	0.42
24:BA:2876:G:H5'	40:BS:1:MET:H3	1.84	0.42
24:BA:28:A:C3'	24:BA:29:U:H5'	2.50	0.42
24:BA:342:G:C2	24:BA:343:C:C2	3.08	0.42
24:BA:391:G:H5'	24:BA:412:A:H4'	2.01	0.42
24:BA:477:A:C4	24:BA:478:A:N7	2.88	0.42
24:BA:566:U:C3'	24:BA:567:A:H8	2.32	0.42
24:BA:623:G:N7	24:BA:624:C:C4	2.88	0.42
24:BA:771:G:N3	24:BA:772:C:C5	2.88	0.42
24:BA:832:G:P	36:BO:35:HIS:CB	3.04	0.42
24:BA:860:U:C5	24:BA:2267:A:C4'	2.96	0.42
24:BA:910:A:C6	24:BA:911:A:N6	2.88	0.42
24:BA:922:U:N3	24:BA:923:C:N4	2.66	0.42
24:BA:945:A:C2'	24:BA:946:G:C5'	2.98	0.42
24:BA:969:U:OP1	49:B2:20:LYS:NZ	2.53	0.42
24:BA:95:G:C6	24:BA:96:G:C8	3.07	0.42
25:BB:63:G:H2'	25:BB:64:C:C5	2.53	0.42
25:BB:79:C:H2'	25:BB:80:U:H5'	2.01	0.42
27:BD:105:ILE:CG1	27:BD:106:ILE:N	2.82	0.42
27:BD:163:ALA:HA	27:BD:175:LEU:HD21	2.01	0.42
27:BD:16:MET:O	27:BD:17:THR:C	2.57	0.42
27:BD:174:ILE:CD1	27:BD:174:ILE:N	2.78	0.42
27:BD:244:ARG:CA	27:BD:252:TRP:CD1	3.03	0.42
27:BD:248:SER:OG	27:BD:248:SER:O	2.38	0.42
27:BD:268:ARG:O	27:BD:269:PHE:CG	2.73	0.42
28:BE:117:MET:HG2	28:BE:136:ARG:NE	2.10	0.42
29:BF:145:GLU:C	29:BF:147:GLY:N	2.73	0.42
29:BF:37:VAL:O	29:BF:184:TYR:CE1	2.72	0.42
29:BF:91:GLY:HA2	29:BF:92:PRO:HD2	1.91	0.42
30:BG:35:GLU:OE2	30:BG:160:VAL:CG1	2.68	0.42
30:BG:75:LYS:HG2	30:BG:85:GLY:H	1.85	0.42
31:BH:6:ARG:H	31:BH:7:LEU:HD23	1.85	0.42
32:BK:2:LYS:HZ2	32:BK:39:ALA:CB	2.29	0.42
32:BK:6:LEU:C	32:BK:6:LEU:CD2	2.88	0.42
33:BL:79:ARG:O	33:BL:82:ALA:HB3	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:BM:62:VAL:C	34:BM:64:GLY:N	2.73	0.42
34:BM:87:LEU:CD2	34:BM:88:GLU:CD	2.88	0.42
35:BN:23:ARG:H	35:BN:23:ARG:CD	2.29	0.42
35:BN:86:ILE:CD1	35:BN:90:GLN:HG3	2.49	0.42
36:BO:126:VAL:HB	36:BO:146:VAL:CG2	2.48	0.42
37:BP:82:ARG:HD2	47:BZ:5:LYS:HD3	2.01	0.42
38:BQ:88:ARG:NH1	38:BQ:88:ARG:CB	2.63	0.42
40:BS:30:VAL:HG21	40:BS:90:GLN:CA	2.41	0.42
41:BT:105:VAL:HG12	41:BT:106:PHE:H	1.84	0.42
24:BA:1152:C:H4'	41:BT:80:ILE:CG2	2.49	0.42
42:BU:49:THR:HG22	42:BU:50:PRO:CD	2.37	0.42
24:BA:1224:G:C3'	42:BU:87:HIS:CE1	3.03	0.42
43:BV:16:LYS:HZ2	43:BV:16:LYS:CA	2.29	0.42
43:BV:72:LYS:HB3	43:BV:108:GLY:CA	2.46	0.42
44:BW:15:GLU:N	44:BW:16:LYS:HE2	2.34	0.42
44:BW:17:ALA:CB	44:BW:27:THR:OG1	2.59	0.42
45:BX:95:LYS:HE3	45:BX:103:GLY:CA	2.49	0.42
45:BX:23:ARG:CG	45:BX:39:VAL:HG22	2.49	0.42
46:BY:155:LEU:HD12	46:BY:155:LEU:HA	1.87	0.42
46:BY:157:LEU:HD22	46:BY:161:VAL:HG13	2.01	0.42
46:BY:162:GLU:OE1	46:BY:162:GLU:HA	2.19	0.42
46:BY:19:ARG:HE	46:BY:24:LEU:HD21	1.85	0.42
46:BY:20:ARG:CG	46:BY:20:ARG:NH1	2.82	0.42
32:BK:50:ARG:C	32:BK:53:ALA:HB3	2.40	0.42
24:BA:2129:C:P	26:BC:6:ARG:CG	3.07	0.42
24:BA:2148:G:C4	24:BA:2149:G:C8	3.08	0.42
26:BC:116:THR:C	26:BC:118:ASP:H	2.23	0.42
26:BC:78:ALA:HA	26:BC:119:VAL:CG1	2.49	0.42
26:BC:211:SER:CB	26:BC:213:TYR:CE1	3.03	0.42
26:BC:213:TYR:HB3	26:BC:222:VAL:O	2.20	0.42
26:BC:97:GLU:CG	26:BC:122:ALA:CB	2.97	0.42
45:BX:41:GLY:C	45:BX:42:VAL:HG22	2.40	0.42
48:B1:3:LYS:HD3	48:B1:3:LYS:HA	1.82	0.42
1:AA:131:C:C5	1:AA:232:G:N2	2.88	0.42
24:BA:434:U:P	24:BA:434:U:H6	2.43	0.42
3:AD:43:C:C2	3:AD:44:G:C8	3.07	0.42
24:BA:1766:U:HO2'	24:BA:1767:C:H5'	1.83	0.42
24:BA:363(C):G:C2'	24:BA:363(D):G:H5'	2.48	0.42
24:BA:1284:A:C6	24:BA:1285:G:C2	3.08	0.42
24:BA:491:G:C2	24:BA:492:A:N3	2.88	0.42
1:AA:513:C:N4	1:AA:514:C:N4	2.68	0.42
1:AA:102:G:N3	1:AA:151:A:C2	2.88	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1066:C:H5''	1:AA:1067:A:P	2.60	0.42
1:AA:1084:G:H2'	1:AA:1085:U:H6	1.77	0.42
1:AA:1305:G:O4'	1:AA:1305:G:OP2	2.38	0.42
1:AA:132:C:C2	1:AA:231:G:C2	3.04	0.42
1:AA:1410:G:N2	1:AA:1411:C:C2	2.88	0.42
1:AA:1475:G:H2'	1:AA:1476:G:H8	1.85	0.42
1:AA:1481:U:C2'	1:AA:1482:G:C8	2.96	0.42
1:AA:188:U:C2'	1:AA:189:U:O5'	2.68	0.42
1:AA:221:C:C2	1:AA:222:U:C5	3.08	0.42
1:AA:24:U:O2'	1:AA:25:C:H5'	2.20	0.42
1:AA:130:A:C2	1:AA:264:U:H6	2.38	0.42
1:AA:50:A:H2	1:AA:360:A:C2'	2.32	0.42
1:AA:377:G:H2'	1:AA:378:G:H8	1.84	0.42
1:AA:403:C:H2'	1:AA:404:U:C6	2.55	0.42
1:AA:428:G:O2'	1:AA:429:U:O5'	2.36	0.42
1:AA:483:C:H3'	1:AA:483:C:C6	2.54	0.42
1:AA:50:A:C2	1:AA:360:A:H2'	2.54	0.42
1:AA:562:C:O2'	14:AO:15:ARG:CG	2.68	0.42
1:AA:632:A:O2'	1:AA:633:G:H5'	2.19	0.42
1:AA:697:U:C3'	1:AA:698:G:H8	2.32	0.42
1:AA:744:C:H4'	1:AA:852:G:O2'	2.20	0.42
1:AA:713:G:H22	1:AA:777:A:H1'	1.82	0.42
1:AA:812:C:O2	1:AA:813:U:C5	2.67	0.42
1:AA:835:U:O2	1:AA:852:G:N2	2.53	0.42
1:AA:895:G:C2	1:AA:896:C:C4	3.07	0.42
1:AA:972:C:O2	1:AA:972:C:C2'	2.68	0.42
1:AA:993:G:N2	1:AA:1046:A:N3	2.68	0.42
3:AC:34:G:N3	3:AC:35:A:C8	2.88	0.42
3:AC:15:G:N2	3:AC:60:U:O2	2.53	0.42
3:AC:75:C:O3'	3:AC:76:A:O3'	2.38	0.42
4:AE:169:LYS:NZ	4:AE:170:GLU:HB2	2.35	0.42
4:AE:20:GLU:O	4:AE:40:HIS:HB2	2.20	0.42
4:AE:55:PHE:HD2	4:AE:221:LEU:HB2	1.85	0.42
4:AE:59:GLU:HA	4:AE:221:LEU:HD11	2.01	0.42
4:AE:49:GLU:O	4:AE:50:GLU:C	2.56	0.42
4:AE:80:ILE:HD12	4:AE:208:ILE:CD1	2.50	0.42
5:AF:147:LYS:HE3	5:AF:147:LYS:HA	2.02	0.42
5:AF:138:VAL:HG12	5:AF:149:ALA:HB3	2.01	0.42
5:AF:186:PHE:CD1	5:AF:186:PHE:C	2.90	0.42
5:AF:70:VAL:HG12	5:AF:71:ALA:N	2.31	0.42
6:AG:105:VAL:HB	6:AG:117:ALA:HB1	2.01	0.42
6:AG:78:LEU:O	6:AG:81:GLU:HB3	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AH:131:ILE:HG22	7:AH:132:ALA:N	2.33	0.42
8:AI:50:TYR:CD2	8:AI:50:TYR:N	2.87	0.42
8:AI:1:MET:HE2	8:AI:68:PRO:HG3	1.97	0.42
9:AJ:71:PRO:CD	9:AJ:96:GLN:HG3	2.50	0.42
10:AK:102:ARG:CG	10:AK:102:ARG:HH11	2.32	0.42
10:AK:85:ARG:HD2	10:AK:86:ILE:H	1.85	0.42
10:AK:92:ARG:CG	10:AK:92:ARG:NH1	2.78	0.42
11:AL:7:THR:CG2	11:AL:9:ARG:NH1	2.82	0.42
13:AN:80:VAL:N	13:AN:104:GLN:HE21	2.17	0.42
14:AO:14:GLY:O	14:AO:15:ARG:HG3	2.19	0.42
1:AA:950:U:OP2	15:AP:102:ARG:NH2	2.53	0.42
1:AA:1228:C:O4'	15:AP:117:VAL:HG23	2.20	0.42
15:AP:69:GLU:OE1	15:AP:69:GLU:O	2.37	0.42
15:AP:91:ARG:O	15:AP:96:LEU:CD2	2.68	0.42
16:AQ:24:CYS:HA	16:AQ:38:GLY:O	2.19	0.42
19:AT:76:LEU:HD23	19:AT:76:LEU:O	2.20	0.42
1:AA:958:A:N3	21:AV:55:LYS:HB2	2.34	0.42
22:AW:59:ALA:C	22:AW:61:SER:N	2.72	0.42
48:B1:16:LEU:HD21	48:B1:59:LEU:HB2	2.01	0.42
48:B1:23:LYS:HZ2	48:B1:23:LYS:HB3	1.84	0.42
49:B2:16:PRO:O	49:B2:19:GLN:HB3	2.20	0.42
50:B3:58:ARG:C	50:B3:62:ARG:CZ	2.88	0.42
43:BV:19:LEU:HD23	51:B4:25:LEU:HD22	2.02	0.42
51:B4:4:HIS:ND1	51:B4:5:PRO:HD3	2.35	0.42
52:B5:27:LYS:CD	52:B5:29:ASN:HD21	2.33	0.42
52:B5:33:LYS:CE	52:B5:34:LEU:HD23	2.50	0.42
53:B6:31:LEU:HD23	53:B6:31:LEU:HA	1.80	0.42
54:B7:10:ALA:HA	54:B7:14:VAL:CG1	2.49	0.42
54:B7:20:GLY:O	54:B7:21:LYS:CG	2.60	0.42
24:BA:1122:G:N2	24:BA:1123:C:C2	2.88	0.42
24:BA:1150:C:C2	24:BA:1151:G:C8	3.08	0.42
24:BA:1225:C:N3	24:BA:1226:G:C2	2.88	0.42
24:BA:1292:U:N3	24:BA:1293:C:C5	2.88	0.42
24:BA:1491:G:H2'	24:BA:1492:G:C3'	2.50	0.42
24:BA:1657:C:C2	24:BA:1658:C:C5	3.08	0.42
24:BA:1769:G:C5	24:BA:1984:G:C6	3.08	0.42
24:BA:1914:C:P	24:BA:1916:A:N6	2.93	0.42
24:BA:1936:A:C2	24:BA:1940:U:O2	2.72	0.42
24:BA:1941:C:C6	24:BA:1965:C:C2	3.07	0.42
24:BA:2027:G:C1'	24:BA:2037:G:N2	2.71	0.42
24:BA:677:A:O2'	24:BA:2071:A:H5'	2.20	0.42
24:BA:2083:G:C2	24:BA:2084:C:N3	2.88	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2236:C:C5	24:BA:2237:G:C5	3.08	0.42
24:BA:2239:G:N3	24:BA:2240:C:C6	2.87	0.42
24:BA:2331:G:C4	24:BA:2332:U:C2	3.08	0.42
24:BA:2341:G:H22	24:BA:2374:C:H4'	1.84	0.42
24:BA:2373:G:N3	24:BA:2374:C:C5	2.88	0.42
24:BA:2389:G:H5''	24:BA:2390:U:H6	1.84	0.42
24:BA:2414:G:O6	24:BA:2415:G:O6	2.38	0.42
24:BA:245:G:C2	24:BA:246:C:C5	3.08	0.42
24:BA:2515:C:C2'	24:BA:2516:G:O5'	2.67	0.42
24:BA:2518:A:H3'	24:BA:2518:A:H8	1.84	0.42
24:BA:2564:A:C5	24:BA:2565:A:N7	2.88	0.42
24:BA:2638:G:O2'	24:BA:2639:A:H8	2.02	0.42
24:BA:2653:U:C4	24:BA:2654:A:C5	3.07	0.42
24:BA:2659:G:N3	24:BA:2663:G:O6	2.53	0.42
24:BA:270(T):G:N1	24:BA:270(U):C:C4	2.88	0.42
24:BA:2756:U:O2'	24:BA:2757:A:P	2.78	0.42
24:BA:2760:C:O2'	24:BA:2761:G:H5'	2.19	0.42
24:BA:2786:U:H4'	28:BE:64:LYS:C	2.39	0.42
24:BA:2801:A:OP1	24:BA:2802:G:OP1	2.37	0.42
24:BA:2821:A:OP2	24:BA:2821:A:C3'	2.59	0.42
24:BA:2869:G:C2	24:BA:2870:C:C2	3.07	0.42
24:BA:317:G:N2	24:BA:334:C:O2	2.53	0.42
24:BA:414:C:C1'	24:BA:1864:U:O2'	2.67	0.42
24:BA:443:A:C1'	24:BA:1201:C:O4'	2.68	0.42
24:BA:450:G:C5'	29:BF:52:LYS:CD	2.90	0.42
24:BA:457:A:C1'	24:BA:459:U:N3	2.74	0.42
24:BA:507:A:H5'	24:BA:509:C:H1'	2.00	0.42
24:BA:563:G:C4	24:BA:2018:G:C2	3.08	0.42
24:BA:651:G:C8	24:BA:652:C:C1'	3.03	0.42
24:BA:677:A:C4	24:BA:678:C:C5	3.08	0.42
24:BA:702:G:H2'	24:BA:703:U:O5'	2.20	0.42
24:BA:738:G:N7	24:BA:739:G:C2	2.87	0.42
24:BA:763:G:N1	24:BA:765:G:C4	2.88	0.42
24:BA:833:U:C2'	24:BA:834:C:O5'	2.68	0.42
24:BA:832:G:C5	24:BA:833:U:O4	2.73	0.42
24:BA:849:A:C6	24:BA:931:G:N1	2.86	0.42
24:BA:854:G:N2	24:BA:855:G:C4	2.87	0.42
24:BA:910:A:H1'	24:BA:2264:C:O2'	2.20	0.42
24:BA:947:G:N2	24:BA:971:C:C2	2.88	0.42
25:BB:28:C:H2'	25:BB:29:A:C8	2.55	0.42
25:BB:30:C:C2	25:BB:31:C:O4'	2.72	0.42
25:BB:62:C:N3	25:BB:63:G:N7	2.68	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:BD:73:VAL:HG12	27:BD:120:GLY:HA2	2.00	0.42
27:BD:208:LYS:NZ	27:BD:211:ARG:HH21	2.11	0.42
27:BD:269:PHE:O	27:BD:270:ILE:CG1	2.67	0.42
27:BD:182:LEU:CG	27:BD:270:ILE:HD11	2.49	0.42
27:BD:182:LEU:HG	27:BD:270:ILE:HD11	2.02	0.42
27:BD:63:ARG:CZ	27:BD:63:ARG:CA	2.98	0.42
24:BA:2210:G:C6	27:BD:70:TRP:CD2	3.08	0.42
28:BE:11:MET:CG	28:BE:12:THR:N	2.83	0.42
30:BG:175:LEU:HD23	30:BG:175:LEU:HA	1.69	0.42
30:BG:119:GLY:CA	30:BG:180:PHE:CD2	3.03	0.42
30:BG:53:LEU:HA	30:BG:72:ARG:HH21	1.84	0.42
34:BM:34:LEU:HD21	34:BM:52:VAL:CG1	2.44	0.42
34:BM:39:ARG:O	34:BM:42:TRP:HB3	2.19	0.42
34:BM:85:ILE:HA	34:BM:86:PRO:HD3	1.75	0.42
35:BN:86:ILE:HG23	35:BN:90:GLN:C	2.39	0.42
24:BA:813:U:C5	36:BO:25:SER:CB	3.03	0.42
37:BP:34:LEU:O	37:BP:103:MET:O	2.37	0.42
37:BP:11:LYS:HD2	37:BP:13:GLN:O	2.20	0.42
37:BP:16:ARG:HH21	37:BP:73:PRO:HG3	1.84	0.42
37:BP:44:ALA:HA	37:BP:47:ILE:CD1	2.26	0.42
37:BP:54:MET:O	37:BP:55:VAL:C	2.57	0.42
37:BP:68:ILE:HG12	37:BP:97:VAL:HG13	2.00	0.42
37:BP:77:LYS:O	37:BP:78:PRO:C	2.58	0.42
38:BQ:102:GLU:OE2	38:BQ:102:GLU:CA	2.68	0.42
38:BQ:108:GLY:O	38:BQ:110:PRO:CD	2.65	0.42
39:BR:23:ARG:HD2	39:BR:23:ARG:HA	1.25	0.42
25:BB:48:A:O3'	39:BR:95:HIS:NE2	2.52	0.42
40:BS:30:VAL:CG2	40:BS:31:SER:H	2.33	0.42
40:BS:81:PRO:O	40:BS:85:LYS:NZ	2.50	0.42
41:BT:65:ILE:HG23	41:BT:96:ALA:CA	2.49	0.42
41:BT:82:GLY:HA2	41:BT:117:GLN:CG	2.28	0.42
42:BU:32:THR:HA	42:BU:64:HIS:C	2.26	0.42
41:BT:94:ASN:ND2	42:BU:6:LYS:HZ1	2.13	0.42
42:BU:72:VAL:CG1	42:BU:73:SER:H	2.24	0.42
43:BV:21:VAL:CG2	43:BV:75:TYR:CD2	3.03	0.42
43:BV:24:ILE:HD11	43:BV:47:VAL:HG11	2.00	0.42
43:BV:3:ALA:HB2	43:BV:58:ALA:HB2	2.01	0.42
43:BV:98:LYS:NZ	43:BV:98:LYS:CB	2.82	0.42
43:BV:8:ARG:HB3	43:BV:9:TYR:H	1.38	0.42
46:BY:175:VAL:HG22	46:BY:176:PRO:CD	2.37	0.42
46:BY:43:GLU:N	46:BY:46:LYS:HZ3	2.17	0.42
46:BY:55:HIS:CD2	46:BY:124:ILE:HD13	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AD:58:A:O2'	3:AD:60:U:O4	2.38	0.42
24:BA:2110:G:H2'	24:BA:2120:G:H5'	1.96	0.42
24:BA:2115:G:C4	24:BA:2117:A:N7	2.87	0.42
24:BA:2175:C:OP1	26:BC:5:LYS:HG2	2.20	0.42
26:BC:93:TYR:CE1	26:BC:109:ASP:HB3	2.54	0.42
24:BA:2178:C:H1'	26:BC:168:THR:OG1	2.19	0.42
26:BC:211:SER:HB2	26:BC:213:TYR:OH	2.18	0.42
1:AA:343:U:O2'	1:AA:344:A:O5'	2.26	0.42
24:BA:1585:C:C5'	24:BA:1586:A:OP1	2.57	0.42
26:BC:148:ASN:HD22	26:BC:151:GLU:HB2	1.84	0.42
24:BA:438:G:H2'	24:BA:439:G:O5'	2.19	0.42
24:BA:276:A:C2'	24:BA:276:A:N3	2.82	0.42
2:A1:41:U:H2'	2:A1:42:U:C6	2.55	0.42
1:AA:1003:G:OP2	1:AA:1004:A:C2	2.73	0.42
1:AA:1076:C:O2'	1:AA:1077:G:H5'	2.19	0.42
1:AA:112:G:H5'	1:AA:389:A:C4'	2.30	0.42
1:AA:1175:G:N1	1:AA:1176:A:C6	2.88	0.42
1:AA:1250:A:N7	1:AA:1251:A:C5	2.88	0.42
1:AA:1320:C:H1'	21:AV:73:GLU:HB3	2.02	0.42
1:AA:1459:C:P	22:AW:27:LYS:HZ2	2.43	0.42
1:AA:147:G:C6	1:AA:148:G:C5	3.08	0.42
1:AA:148:G:H1	1:AA:174:C:N4	2.09	0.42
1:AA:1394:A:C8	1:AA:1501:C:H1'	2.50	0.42
1:AA:1511:G:C5	1:AA:1512:U:C5	3.08	0.42
1:AA:222:U:C2'	1:AA:223:U:O5'	2.68	0.42
1:AA:255:G:C6	1:AA:256:U:C4	3.08	0.42
1:AA:319:G:H2'	1:AA:320:C:H5'	2.01	0.42
1:AA:409:G:OP2	6:AG:22:LYS:HE2	2.20	0.42
1:AA:416:G:C2'	1:AA:417:C:C6	2.89	0.42
1:AA:451:A:HO2'	1:AA:452:A:C1'	2.32	0.42
1:AA:51:A:H4'	1:AA:52:G:H5''	2.01	0.42
1:AA:610:G:C2'	1:AA:611:A:C5'	2.96	0.42
1:AA:62:U:H2'	1:AA:63:C:C6	2.55	0.42
1:AA:675:A:C2'	1:AA:676:A:C8	2.99	0.42
1:AA:587:G:N3	1:AA:755:G:C6	2.88	0.42
1:AA:776:G:N2	1:AA:802:A:OP2	2.53	0.42
1:AA:570:G:N2	1:AA:873:A:H61	2.18	0.42
1:AA:880:C:C2'	1:AA:881:G:O5'	2.68	0.42
1:AA:942:G:N2	1:AA:943:U:C2	2.88	0.42
1:AA:947:G:O2'	1:AA:948:C:C5'	2.61	0.42
1:AA:980:C:C5	1:AA:981:U:N3	2.87	0.42
3:AB:12:U:H5'	24:BA:1915:U:C5'	2.47	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:18:G:N2	3:AC:58:A:C8	2.88	0.42
4:AE:114:ARG:O	4:AE:118:LEU:CB	2.68	0.42
4:AE:114:ARG:HG3	4:AE:115:LEU:N	2.35	0.42
4:AE:118:LEU:O	4:AE:121:LEU:N	2.53	0.42
4:AE:126:GLU:O	4:AE:127:ILE:O	2.37	0.42
4:AE:185:ILE:HG22	4:AE:199:TYR:CB	2.47	0.42
4:AE:71:VAL:O	4:AE:164:VAL:CG2	2.62	0.42
5:AF:181:ASN:ND2	5:AF:206:GLU:HA	2.34	0.42
5:AF:33:LEU:O	5:AF:36:ASP:CB	2.59	0.42
5:AF:59:ARG:HG2	5:AF:59:ARG:HH11	1.85	0.42
6:AG:13:ARG:HE	6:AG:40:PRO:CB	2.24	0.42
6:AG:149:ALA:O	6:AG:150:GLU:C	2.58	0.42
6:AG:166:LYS:CA	6:AG:178:VAL:HG11	2.50	0.42
6:AG:194:LEU:N	6:AG:194:LEU:CD2	2.67	0.42
7:AH:19:MET:CE	7:AH:20:GLN:N	2.83	0.42
8:AI:80:ARG:O	8:AI:81:ILE:O	2.37	0.42
8:AI:8:ILE:HG22	8:AI:87:ARG:O	2.19	0.42
8:AI:94:GLN:CB	20:AU:32:ARG:NH2	2.81	0.42
9:AJ:6:ARG:N	9:AJ:6:ARG:NH1	2.67	0.42
10:AK:114:THR:C	10:AK:116:LYS:N	2.72	0.42
10:AK:33:GLU:CD	10:AK:59:LEU:HD21	2.40	0.42
11:AL:125:TYR:HB3	11:AL:126:SER:H	1.58	0.42
11:AL:47:LEU:CD1	11:AL:47:LEU:O	2.62	0.42
11:AL:6:GLY:HA3	11:AL:84:ALA:H	1.84	0.42
11:AL:9:ARG:HA	11:AL:76:ALA:HB1	2.01	0.42
12:AM:37:PRO:HA	12:AM:72:VAL:HA	2.02	0.42
12:AM:30:SER:OG	12:AM:81:THR:HA	2.19	0.42
12:AM:81:THR:O	12:AM:83:GLU:N	2.52	0.42
13:AN:101:SER:O	13:AN:102:GLY:C	2.57	0.42
13:AN:122:LYS:O	13:AN:124:LYS:N	2.53	0.42
13:AN:34:ASP:CG	13:AN:36:ASP:H	2.22	0.42
13:AN:44:SER:HB2	13:AN:47:VAL:HG23	2.02	0.42
14:AO:123:LYS:HB3	14:AO:123:LYS:HE3	1.85	0.42
15:AP:22:ILE:CG1	15:AP:25:ILE:HD12	2.50	0.42
17:AR:56:LEU:CD1	17:AR:59:MET:HE1	2.50	0.42
17:AR:71:GLN:O	17:AR:72:ARG:C	2.57	0.42
18:AS:80:PHE:O	18:AS:80:PHE:CD2	2.72	0.42
19:AT:31:LEU:CG	19:AT:31:LEU:O	2.59	0.42
19:AT:58:GLU:OE1	19:AT:75:ARG:N	2.52	0.42
21:AV:48:THR:HG23	21:AV:60:VAL:O	2.20	0.42
21:AV:77:THR:C	21:AV:78:ARG:HG2	2.40	0.42
1:AA:324:G:OP1	22:AW:22:ARG:HB3	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AW:40:ALA:O	22:AW:42:GLN:N	2.53	0.42
23:AX:18:TYR:HA	23:AX:22:ARG:HB3	2.02	0.42
23:AX:25:LYS:CD	23:AX:25:LYS:O	2.68	0.42
1:AA:1305:G:C5'	23:AX:4:GLY:C	2.88	0.42
48:B1:19:LEU:HD13	48:B1:20:VAL:CA	2.49	0.42
48:B1:27:LEU:CD1	48:B1:48:LEU:HD23	2.50	0.42
50:B3:21:VAL:CG1	50:B3:23:GLU:CG	2.97	0.42
50:B3:64:GLY:O	50:B3:65:ASP:C	2.56	0.42
24:BA:2285:C:C6	52:B5:27:LYS:HE2	2.55	0.42
54:B7:3:LYS:O	54:B7:4:MET:HB2	2.20	0.42
24:BA:108:U:H2'	24:BA:109:G:O4'	2.20	0.42
24:BA:1257:C:C1'	29:BF:83:PHE:HB2	2.50	0.42
24:BA:126:A:C2'	24:BA:127:A:C5'	2.96	0.42
24:BA:1278:A:O3'	38:BQ:34:ILE:HG23	2.20	0.42
24:BA:1305:C:O2'	24:BA:1306:C:H5'	2.19	0.42
24:BA:1310:G:H1	24:BA:1604:C:N4	2.18	0.42
24:BA:1324:G:C2'	24:BA:1325:G:OP1	2.68	0.42
24:BA:1344:G:C6	24:BA:1404:C:C4	3.08	0.42
24:BA:1449(A):G:C4	24:BA:1450:C:C5	3.07	0.42
24:BA:1496:A:C5	24:BA:1577:C:O2'	2.72	0.42
24:BA:1549:C:H2'	24:BA:1550:C:C6	2.49	0.42
24:BA:1593:G:H2'	24:BA:1594:G:H8	1.85	0.42
24:BA:1635:G:O2'	24:BA:1636:C:H5'	2.20	0.42
24:BA:1651:G:C2'	24:BA:1652:A:C8	2.94	0.42
24:BA:1672:C:O2	24:BA:2582:G:H1'	2.20	0.42
24:BA:1698:A:C2'	24:BA:1699:G:OP2	2.68	0.42
24:BA:1761:C:H3'	24:BA:1761:C:C6	2.55	0.42
24:BA:1796:U:H2'	24:BA:1797:C:C6	2.55	0.42
24:BA:1811:G:C2'	24:BA:1812:A:O4'	2.68	0.42
24:BA:189:G:N2	24:BA:206:U:C5	2.88	0.42
24:BA:1908:C:O2'	24:BA:1909:C:O5'	2.37	0.42
24:BA:1913:A:C2'	24:BA:1916:A:C2	3.03	0.42
24:BA:1906:G:C2	24:BA:1929:G:O6	2.73	0.42
24:BA:1935:G:C5	24:BA:1962:C:C5	3.08	0.42
24:BA:1935:G:C2'	24:BA:1936:A:OP2	2.68	0.42
24:BA:1952:A:H2'	24:BA:1953:A:O4'	2.20	0.42
24:BA:1992:G:C6	24:BA:1997:G:N3	2.88	0.42
24:BA:203:C:C5	24:BA:204:A:N7	2.88	0.42
24:BA:2052:G:H1'	28:BE:150:VAL:CA	2.48	0.42
24:BA:213:A:N1	24:BA:214:G:N3	2.68	0.42
24:BA:219:G:C8	24:BA:219:G:O5'	2.59	0.42
24:BA:2213:U:C4'	24:BA:2215:G:N7	2.83	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2340:G:C2	24:BA:2341:G:C8	3.08	0.42
24:BA:2367:G:C2	24:BA:2368:C:C5	3.08	0.42
24:BA:2378:A:C4	39:BR:20:ARG:NH1	2.88	0.42
24:BA:2423:U:O2'	24:BA:2425:A:H5'	2.20	0.42
24:BA:2444:G:N3	24:BA:2444:G:H2'	2.34	0.42
24:BA:2500:U:HO2'	24:BA:2501:C:P	2.42	0.42
24:BA:2554:U:C4	24:BA:2555:U:O4	2.73	0.42
24:BA:2507:C:N1	24:BA:2583:G:N2	2.68	0.42
24:BA:2075:U:H1'	24:BA:2597:G:N2	2.33	0.42
24:BA:2581:G:O6	24:BA:2610:C:H2'	2.17	0.42
24:BA:2691:C:N3	24:BA:2719:G:C2	2.88	0.42
24:BA:270(Z):U:HO2'	24:BA:271(A):C:P	2.40	0.42
24:BA:2744:G:C2	24:BA:2761:G:C4	3.08	0.42
24:BA:2805:G:H2'	24:BA:2807:G:H4'	2.01	0.42
24:BA:2817:G:C6	24:BA:2818:G:C5	3.08	0.42
24:BA:2826:A:O2'	24:BA:2827:C:H5'	2.19	0.42
24:BA:28:A:C8	24:BA:513:A:N6	2.88	0.42
24:BA:364:C:O5'	24:BA:364:C:H6	2.03	0.42
24:BA:365:C:H2'	24:BA:366:C:C5	2.54	0.42
24:BA:365:C:C4	24:BA:366:C:N4	2.88	0.42
24:BA:480:A:H2'	24:BA:481:G:OP1	2.20	0.42
24:BA:507:A:C4'	24:BA:509:C:C6	3.03	0.42
24:BA:696:G:C2	24:BA:697:C:C5	3.08	0.42
24:BA:723:G:C2	24:BA:724:U:C1'	3.02	0.42
24:BA:76:C:H5'	48:B1:54:ARG:HH22	1.84	0.42
24:BA:814:C:O2'	24:BA:1224:G:N2	2.47	0.42
24:BA:824:A:H2'	24:BA:825:C:C6	2.54	0.42
24:BA:878:A:C2'	24:BA:879:G:C8	3.03	0.42
24:BA:879:G:O2'	24:BA:880:G:H5'	2.20	0.42
24:BA:906:G:C6	24:BA:907:U:O4	2.73	0.42
25:BB:66:A:H2	25:BB:108:C:C1'	2.33	0.42
25:BB:83:G:HO2'	25:BB:84:C:H5'	1.81	0.42
27:BD:12:SER:HB2	27:BD:14:ARG:NH2	2.34	0.42
27:BD:146:GLU:HA	27:BD:154:LYS:O	2.20	0.42
27:BD:22:SER:HA	27:BD:205:VAL:O	2.20	0.42
24:BA:1799:G:H8	27:BD:268:ARG:NH1	2.04	0.42
27:BD:181:GLU:OE1	27:BD:270:ILE:HG22	2.20	0.42
28:BE:8:LYS:CB	28:BE:24:THR:CG2	2.98	0.42
28:BE:38:THR:CB	28:BE:39:PRO:CD	2.98	0.42
28:BE:64:LYS:HG2	28:BE:67:PHE:CD1	2.55	0.42
30:BG:125:PHE:HD2	30:BG:129:GLY:CA	2.33	0.42
30:BG:62:LEU:HB3	30:BG:143:GLU:HG3	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:BH:105:LEU:O	31:BH:113:VAL:HG21	2.20	0.42
31:BH:118:PRO:HG2	31:BH:121:ILE:HG21	2.00	0.42
31:BH:175:LYS:CG	31:BH:176:ALA:H	2.32	0.42
31:BH:25:LYS:HD3	31:BH:27:LYS:HZ2	1.84	0.42
24:BA:2199:A:H1'	32:BK:29:TYR:OH	2.19	0.42
33:BL:39:LYS:O	33:BL:40:ALA:C	2.58	0.42
34:BM:15:LEU:CD2	34:BM:137:LYS:HB3	2.50	0.42
34:BM:33:LEU:HD11	34:BM:52:VAL:CB	2.49	0.42
34:BM:70:LYS:CD	34:BM:86:PRO:HA	2.50	0.42
35:BN:121:VAL:HA	40:BS:70:VAL:CG1	2.49	0.42
35:BN:13:ASN:N	35:BN:94:ARG:CB	2.82	0.42
35:BN:26:LYS:CG	35:BN:27:GLY:H	2.29	0.42
36:BO:76:LYS:HD3	36:BO:112:LEU:HB3	2.02	0.42
36:BO:124:LYS:HB3	36:BO:143:GLY:HA2	2.02	0.42
36:BO:70:GLN:O	36:BO:71:VAL:HG23	2.20	0.42
37:BP:67:ARG:HD3	37:BP:103:MET:SD	2.60	0.42
37:BP:130:LYS:HZ1	37:BP:132:VAL:CG1	2.32	0.42
37:BP:77:LYS:HB3	37:BP:78:PRO:CD	2.39	0.42
24:BA:2690:C:H41	38:BQ:14:SER:CB	2.32	0.42
39:BR:11:LYS:CA	39:BR:14:VAL:HB	2.49	0.42
39:BR:71:ARG:N	39:BR:104:GLY:HA3	2.35	0.42
39:BR:49:VAL:CG1	39:BR:76:LYS:HZ1	2.29	0.42
40:BS:67:SER:CB	40:BS:75:ILE:CG2	2.98	0.42
40:BS:28:VAL:HG23	40:BS:94:ALA:CA	2.50	0.42
41:BT:97:ASP:HB3	41:BT:101:ARG:HE	1.82	0.42
42:BU:15:GLU:CB	42:BU:16:PRO:CD	2.98	0.42
42:BU:36:PRO:HA	42:BU:61:VAL:HG22	2.02	0.42
42:BU:70:ILE:HG22	42:BU:89:GLN:O	2.20	0.42
46:BY:104:PHE:CE1	46:BY:171:ILE:HG13	2.55	0.42
46:BY:105:VAL:O	46:BY:140:ASP:OD2	2.37	0.42
46:BY:31:ARG:CZ	46:BY:31:ARG:HB3	2.42	0.42
32:BK:77:LEU:HD12	32:BK:142:VAL:CG2	2.50	0.42
3:AD:18:G:C6	3:AD:57:G:C2	3.07	0.42
3:AD:21:A:N6	3:AD:48:C:H6	2.16	0.42
24:BA:2147:G:C2	24:BA:2148:G:H4'	2.55	0.42
26:BC:137:LEU:HD23	26:BC:138:PRO:CD	2.49	0.42
26:BC:89:ALA:HB1	26:BC:150:GLY:O	2.19	0.42
26:BC:22:ILE:CD1	26:BC:190:ARG:CZ	2.97	0.42
26:BC:77:ILE:HG23	26:BC:96:GLY:O	2.19	0.42
1:AA:1170:A:H8	1:AA:1170:A:H3'	1.84	0.42
24:BA:2186:G:C2	24:BA:2187:G:C6	3.08	0.42
24:BA:1887:C:H2'	24:BA:1888:G:O4'	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BY:92:SER:O	46:BY:93:ASP:CB	2.65	0.42
24:BA:2106:G:H2'	24:BA:2107:C:C6	2.55	0.42
1:AA:1537:U:C4	1:AA:1538:C:C5	3.07	0.42
18:AS:46:PRO:CD	18:AS:47:ASP:H	2.32	0.42
1:AA:1100:C:O2'	1:AA:1102:A:O5'	2.37	0.41
1:AA:1102:A:N6	1:AA:1103:C:N4	2.68	0.41
1:AA:1141:C:C2	1:AA:1142:G:C8	3.07	0.41
1:AA:1157:A:N6	1:AA:1180:A:N7	2.68	0.41
1:AA:1191:A:H5''	5:AF:4:LYS:CE	2.50	0.41
1:AA:1194:U:C4	1:AA:1195:C:C4	3.08	0.41
1:AA:1055:A:N6	1:AA:1206:G:C8	2.88	0.41
1:AA:1245:A:C4	1:AA:1246:C:C5	3.08	0.41
1:AA:1256:A:H61	1:AA:1278:U:C2'	2.32	0.41
1:AA:1287:A:H2	1:AA:1370:G:H21	1.67	0.41
1:AA:1302:U:H4'	1:AA:1303:C:OP1	2.20	0.41
1:AA:1307:U:O5'	1:AA:1307:U:C6	2.66	0.41
1:AA:1393:U:C2'	1:AA:1394:A:OP2	2.68	0.41
1:AA:1418:A:H2'	1:AA:1419:G:H5'	2.00	0.41
1:AA:1453:G:C2'	1:AA:1454:G:C5'	2.98	0.41
1:AA:1494:G:N3	1:AA:1495:U:C5	2.88	0.41
1:AA:130:A:O2'	1:AA:190:G:N2	2.53	0.41
1:AA:244:U:H2'	1:AA:245:C:OP2	2.19	0.41
1:AA:293:G:C6	1:AA:305:G:C2	3.08	0.41
1:AA:297:G:N2	1:AA:299:G:H3'	2.35	0.41
1:AA:328:C:O2	1:AA:328:C:C3'	2.68	0.41
1:AA:44:G:C6	1:AA:399:G:N1	2.87	0.41
1:AA:438:G:N3	1:AA:495:A:C8	2.88	0.41
1:AA:42:G:C6	1:AA:43:C:C4	3.08	0.41
1:AA:448:A:C4	1:AA:487:A:C2	3.08	0.41
1:AA:519:C:H5'	14:AO:51:ALA:CB	2.49	0.41
1:AA:498:A:C8	1:AA:547:A:C6	3.08	0.41
1:AA:606:G:C2	1:AA:631:G:C2	3.08	0.41
1:AA:671:G:N3	1:AA:671:G:H2'	2.35	0.41
1:AA:701:C:HO2'	1:AA:702:A:P	2.39	0.41
1:AA:718:G:H4'	13:AN:117:ASN:ND2	2.25	0.41
1:AA:728:A:C8	17:AR:54:ARG:NH1	2.88	0.41
1:AA:763:G:N2	1:AA:764:C:C2	2.88	0.41
1:AA:957:U:O2	1:AA:960:U:C6	2.73	0.41
1:AA:95:G:H2'	1:AA:96:G:O4'	2.20	0.41
1:AA:970:C:H42	15:AP:126:LYS:NZ	2.18	0.41
1:AA:999:U:C4	1:AA:1042:G:C6	3.08	0.41
3:AC:8:U:H1'	3:AC:48:C:H1'	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:112:VAL:O	4:AE:116:GLU:OE2	2.38	0.41
4:AE:118:LEU:CD2	4:AE:142:LEU:HD12	2.48	0.41
4:AE:33:TYR:HB3	4:AE:42:ILE:O	2.20	0.41
4:AE:46:LYS:O	4:AE:47:THR:C	2.58	0.41
4:AE:42:ILE:CD1	4:AE:47:THR:OG1	2.68	0.41
5:AF:128:PHE:O	5:AF:130:VAL:N	2.52	0.41
5:AF:131:ARG:HH22	7:AH:51:VAL:HG23	1.85	0.41
5:AF:194:GLY:O	5:AF:196:LEU:CD2	2.68	0.41
5:AF:33:LEU:HD23	5:AF:36:ASP:CB	2.50	0.41
5:AF:6:HIS:CD2	5:AF:8:ILE:HG22	2.55	0.41
6:AG:161:ASN:O	6:AG:165:MET:CB	2.67	0.41
6:AG:17:VAL:O	6:AG:17:VAL:HG12	2.20	0.41
6:AG:33:MET:HE3	6:AG:33:MET:H	1.84	0.41
8:AI:14:LEU:HD11	8:AI:18:GLN:HB3	1.99	0.41
8:AI:23:LYS:HE3	8:AI:61:LEU:HD11	2.02	0.41
8:AI:59:TYR:C	8:AI:60:PHE:CD1	2.93	0.41
9:AJ:94:ARG:HH11	9:AJ:94:ARG:C	2.22	0.41
10:AK:65:TYR:CD2	10:AK:78:GLN:HA	2.55	0.41
10:AK:75:ARG:HH11	10:AK:75:ARG:HG3	1.85	0.41
11:AL:72:GLY:O	11:AL:75:ASP:OD2	2.37	0.41
12:AM:46:ARG:CZ	16:AQ:61:TRP:CE3	3.03	0.41
12:AM:54:PHE:O	12:AM:55:LYS:C	2.58	0.41
12:AM:65:LEU:HD13	16:AQ:36:PHE:HE2	1.81	0.41
13:AN:104:GLN:HE22	13:AN:106:LYS:CB	2.33	0.41
1:AA:683:G:N3	13:AN:38:ASN:ND2	2.68	0.41
14:AO:102:ARG:HH11	14:AO:110:VAL:HG13	1.85	0.41
14:AO:7:ILE:CG2	14:AO:8:ASN:N	2.80	0.41
14:AO:92:ASP:C	14:AO:93:LEU:CD2	2.83	0.41
15:AP:3:ARG:NH2	30:BG:113:ARG:NH2	2.68	0.41
15:AP:8:GLU:HG3	15:AP:22:ILE:CD1	2.50	0.41
16:AQ:3:ARG:CG	16:AQ:3:ARG:O	2.68	0.41
16:AQ:48:ALA:N	16:AQ:53:LEU:HD12	2.35	0.41
16:AQ:51:GLY:O	16:AQ:53:LEU:N	2.52	0.41
1:AA:1313:U:O4	21:AV:4:SER:HB2	2.17	0.41
21:AV:77:THR:HG23	21:AV:78:ARG:HG2	2.01	0.41
22:AW:74:LYS:HB2	22:AW:75:ASN:H	1.65	0.41
22:AW:49:ALA:HB3	22:AW:99:LEU:HG	2.01	0.41
48:B1:14:VAL:C	48:B1:17:GLU:HB2	2.39	0.41
48:B1:30:LEU:CD1	48:B1:45:ILE:HA	2.49	0.41
49:B2:40:THR:HG22	49:B2:42:ALA:CB	2.50	0.41
50:B3:21:VAL:HG13	50:B3:23:GLU:CG	2.50	0.41
52:B5:17:LYS:CE	52:B5:48:VAL:CG1	2.98	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:B6:31:LEU:O	53:B6:35:ARG:CG	2.66	0.41
24:BA:1619:G:N2	53:B6:3:ARG:NH1	2.68	0.41
54:B7:12:LYS:HG2	54:B7:13:ARG:NH1	2.28	0.41
24:BA:1002:G:C2'	24:BA:1003:G:O5'	2.67	0.41
24:BA:1055:G:O5'	24:BA:1055:G:C8	2.60	0.41
24:BA:1061:U:H4'	24:BA:1070:A:C3'	2.47	0.41
24:BA:1103:A:H2'	24:BA:1104:C:OP1	2.19	0.41
24:BA:109:G:N1	24:BA:110:G:C8	2.88	0.41
24:BA:1120:G:O2'	24:BA:1121:C:H5'	2.19	0.41
24:BA:1364:G:O5'	24:BA:1809:A:N1	2.53	0.41
24:BA:1405:U:C2'	24:BA:1406:U:C5	2.87	0.41
24:BA:140:A:C5	24:BA:141:A:C8	3.08	0.41
24:BA:1426:G:C3'	24:BA:1427:A:H5''	2.50	0.41
24:BA:1426:G:H3'	24:BA:1427:A:H8	1.85	0.41
24:BA:1449:A:C6	24:BA:1449(A):G:C5	3.08	0.41
24:BA:1479:G:C2'	24:BA:1480:G:H8	2.19	0.41
24:BA:1500:G:C4	24:BA:1501:C:C5	3.08	0.41
24:BA:1571:A:OP2	24:BA:1571:A:O4'	2.38	0.41
24:BA:1631:A:C6	24:BA:1632:A:C2	3.08	0.41
24:BA:1676:A:C2'	24:BA:1677:A:O5'	2.68	0.41
24:BA:1702:G:C5	24:BA:1703:G:C8	3.08	0.41
24:BA:1820:U:O2'	24:BA:1821:A:P	2.78	0.41
24:BA:1999:C:O2'	24:BA:2722:G:N2	2.52	0.41
24:BA:2083:G:N3	24:BA:2084:C:C6	2.88	0.41
24:BA:2284:C:N3	24:BA:2285:C:C4	2.87	0.41
24:BA:2293:C:N3	24:BA:2294:C:C5	2.88	0.41
24:BA:411:G:N1	24:BA:2407:G:O6	2.49	0.41
24:BA:416:C:N3	24:BA:2407:G:O6	2.53	0.41
24:BA:389:G:H1'	24:BA:2412:A:H2'	2.00	0.41
24:BA:2458:G:HO2'	24:BA:2459:A:C5'	2.33	0.41
24:BA:2548:G:O6	24:BA:2561:A:N6	2.53	0.41
24:BA:2610:C:C2'	24:BA:2611:U:OP2	2.68	0.41
24:BA:2621:A:O2'	24:BA:2622:C:H5'	2.20	0.41
24:BA:270(B):A:C2'	24:BA:270(C):C:H6	2.33	0.41
24:BA:329:G:OP2	45:BX:66:PRO:HG3	2.19	0.41
24:BA:36:G:H2'	24:BA:37:C:O4'	2.20	0.41
24:BA:397:G:OP2	50:B3:59:PHE:CZ	2.67	0.41
24:BA:402:A:N1	24:BA:403:U:C6	2.88	0.41
24:BA:566:U:H5''	42:BU:82:ARG:HH12	1.77	0.41
24:BA:600:G:H1'	29:BF:105:VAL:CG2	2.50	0.41
24:BA:636:G:OP1	36:BO:132:LYS:HG3	2.19	0.41
24:BA:696:G:C4	24:BA:697:C:C5	3.07	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:707:G:C6	24:BA:708:C:C4	3.08	0.41
24:BA:756:C:C4	24:BA:757:U:C5	3.08	0.41
24:BA:781:A:N3	24:BA:781:A:H2'	2.35	0.41
24:BA:790:C:C6	24:BA:790:C:C3'	3.03	0.41
24:BA:794:G:C4	24:BA:795:C:C5	3.08	0.41
24:BA:826:U:H3'	24:BA:828:U:C4	2.54	0.41
24:BA:88:G:C5'	24:BA:89:G:OP2	2.57	0.41
24:BA:901:A:H2'	24:BA:902:C:H6	1.83	0.41
24:BA:843:G:C2	24:BA:936:C:N3	2.88	0.41
25:BB:77:U:C6	25:BB:77:U:H3'	2.47	0.41
25:BB:83:G:O2'	25:BB:84:C:C5'	2.61	0.41
27:BD:78:LYS:CD	27:BD:114:GLY:O	2.67	0.41
27:BD:177:LEU:CD2	27:BD:181:GLU:C	2.88	0.41
27:BD:243:GLY:O	27:BD:244:ARG:CG	2.68	0.41
27:BD:49:ILE:HD12	27:BD:49:ILE:H	1.84	0.41
27:BD:54:ARG:HB3	27:BD:218:ARG:CB	2.44	0.41
28:BE:102:VAL:CG2	28:BE:104:VAL:HG23	2.50	0.41
28:BE:137:HIS:CB	28:BE:138:PRO:CD	2.95	0.41
28:BE:100:GLU:C	28:BE:172:VAL:HG13	2.39	0.41
28:BE:55:ASN:O	28:BE:56:PRO:C	2.56	0.41
28:BE:85:ASN:O	28:BE:87:GLU:N	2.38	0.41
29:BF:116:ASP:O	29:BF:119:ARG:CD	2.68	0.41
29:BF:170:LEU:HB3	29:BF:171:PRO:CD	2.49	0.41
30:BG:105:LYS:CA	30:BG:109:VAL:HG13	2.49	0.41
30:BG:108:ASN:OD1	30:BG:177:GLY:HA2	2.19	0.41
30:BG:47:LYS:CG	30:BG:72:ARG:O	2.68	0.41
31:BH:151:ILE:O	31:BH:151:ILE:HG23	2.19	0.41
31:BH:171:LEU:C	31:BH:172:LYS:HZ2	2.24	0.41
34:BM:71:ILE:HG22	34:BM:72:TYR:H	1.85	0.41
35:BN:53:LYS:HG3	35:BN:55:GLY:H	1.84	0.41
37:BP:125:LEU:HD23	37:BP:125:LEU:H	1.83	0.41
37:BP:42:ILE:HD13	37:BP:43:THR:CA	2.49	0.41
37:BP:43:THR:HA	37:BP:94:VAL:CB	2.50	0.41
24:BA:1279:G:H4'	38:BQ:31:HIS:CD2	2.55	0.41
38:BQ:66:VAL:O	38:BQ:67:LEU:C	2.53	0.41
24:BA:2708:G:C4'	38:BQ:71:GLN:OE1	2.68	0.41
38:BQ:90:ARG:CB	38:BQ:94:TYR:HE2	2.33	0.41
39:BR:64:GLU:OE2	39:BR:67:ARG:CB	2.61	0.41
40:BS:50:ILE:HG22	40:BS:67:SER:C	2.41	0.41
40:BS:59:THR:C	40:BS:61:PHE:CE1	2.93	0.41
40:BS:6:LEU:CG	40:BS:7:ILE:N	2.82	0.41
41:BT:33:ARG:HB2	41:BT:33:ARG:CZ	2.50	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BT:94:ASN:O	41:BT:96:ALA:N	2.52	0.41
43:BV:72:LYS:O	43:BV:106:ILE:HG23	2.18	0.41
43:BV:16:LYS:NZ	43:BV:16:LYS:H	2.07	0.41
44:BW:8:ILE:H	44:BW:9:LEU:CD1	2.33	0.41
46:BY:95:PRO:CB	46:BY:131:ARG:H	2.33	0.41
46:BY:39:VAL:HG22	46:BY:44:PHE:CZ	2.48	0.41
47:BZ:27:GLU:OE1	47:BZ:27:GLU:CA	2.67	0.41
24:BA:2336:A:H2	47:BZ:57:PHE:CZ	2.38	0.41
24:BA:2126:A:HO2'	24:BA:2127:G:P	2.42	0.41
26:BC:10:LEU:HD21	26:BC:33:ALA:HB2	2.02	0.41
26:BC:137:LEU:HD23	26:BC:138:PRO:N	2.35	0.41
26:BC:22:ILE:HD13	26:BC:189:ILE:CG2	2.50	0.41
26:BC:71:GLN:CG	26:BC:72:VAL:HG23	2.49	0.41
24:BA:1:G:H2'	24:BA:2:G:H8	1.84	0.41
6:AG:159:ARG:NH1	6:AG:159:ARG:HG2	2.35	0.41
24:BA:2154:G:H2'	24:BA:2155:G:O4'	2.19	0.41
33:BL:3:LYS:HB2	33:BL:3:LYS:HE3	1.78	0.41
1:AA:1053:G:O5'	1:AA:1055:A:OP1	2.38	0.41
1:AA:1090:U:O2'	1:AA:1091:U:C5'	2.68	0.41
1:AA:1102:A:N1	1:AA:1103:C:C4	2.89	0.41
1:AA:1068:G:O6	1:AA:1108:G:C2	2.73	0.41
1:AA:1095:U:OP1	1:AA:1108:G:N2	2.53	0.41
1:AA:1185:G:O5'	1:AA:1185:G:H8	2.03	0.41
1:AA:120:A:H2'	1:AA:122:G:C8	2.55	0.41
1:AA:1290:G:C6	1:AA:1291:G:N7	2.88	0.41
1:AA:1306:A:H3'	1:AA:1307:U:C5	2.55	0.41
1:AA:1336:C:O2'	1:AA:1337:G:OP2	2.37	0.41
1:AA:1347:G:H3'	11:AL:107:ARG:O	2.20	0.41
1:AA:1360:A:C2	1:AA:1361:G:C4	3.09	0.41
1:AA:1287:A:H61	1:AA:1371:G:H5'	1.85	0.41
1:AA:1411:C:C2	1:AA:1412:C:C6	3.08	0.41
1:AA:145:G:C6	1:AA:178:C:N4	2.88	0.41
1:AA:149:A:C2	1:AA:150:C:N3	2.89	0.41
1:AA:438:G:N2	1:AA:494:U:C2	2.88	0.41
1:AA:440:A:H3'	1:AA:442:C:C5	2.55	0.41
1:AA:520:A:OP1	14:AO:52:LEU:CD2	2.68	0.41
1:AA:518:C:O2	1:AA:529:G:O6	2.38	0.41
1:AA:61:G:C6	1:AA:62:U:N3	2.88	0.41
1:AA:697:U:H5'	1:AA:786:G:O2'	2.21	0.41
1:AA:830:G:O6	1:AA:857:C:N4	2.54	0.41
3:AB:14:A:N9	3:AB:22:G:N2	2.67	0.41
3:AC:9:A:C5'	3:AC:10:G:OP2	2.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:19:G:O2'	3:AC:20:U:OP2	2.32	0.41
3:AC:33:U:H6	3:AC:33:U:O5'	2.03	0.41
3:AC:75:C:OP1	3:AC:76:A:OP2	2.39	0.41
4:AE:163:PHE:CZ	4:AE:186:ALA:CA	3.02	0.41
4:AE:21:ARG:HE	4:AE:21:ARG:H	1.63	0.41
4:AE:50:GLU:HG3	4:AE:200:ILE:C	2.32	0.41
5:AF:11:ARG:NH2	5:AF:179:ARG:H	2.08	0.41
5:AF:19:GLU:CD	5:AF:19:GLU:N	2.74	0.41
6:AG:126:ILE:O	6:AG:132:ARG:HB2	2.20	0.41
6:AG:177:ASP:C	6:AG:179:GLU:H	2.22	0.41
7:AH:149:GLU:OE2	7:AH:152:ARG:HG3	2.20	0.41
7:AH:26:PHE:HB2	7:AH:27:ARG:H	1.57	0.41
9:AJ:126:ASP:CB	9:AJ:131:LYS:HG3	2.50	0.41
9:AJ:69:VAL:HG13	9:AJ:135:VAL:HG22	2.02	0.41
10:AK:109:ILE:HG12	10:AK:137:VAL:H	1.84	0.41
10:AK:36:LEU:O	10:AK:39:LEU:HB2	2.18	0.41
10:AK:28:ALA:HB3	10:AK:57:PRO:O	2.20	0.41
10:AK:65:TYR:HB3	10:AK:76:PRO:HB2	2.02	0.41
11:AL:17:VAL:HG11	11:AL:81:ILE:CG1	2.50	0.41
12:AM:5:ARG:CD	12:AM:6:ILE:N	2.83	0.41
12:AM:79:ARG:NH2	12:AM:82:ILE:CG2	2.82	0.41
13:AN:21:ILE:O	13:AN:21:ILE:HG13	2.19	0.41
13:AN:42:TRP:C	13:AN:42:TRP:CE3	2.93	0.41
14:AO:83:VAL:C	14:AO:104:VAL:CG1	2.88	0.41
14:AO:86:ARG:NH1	14:AO:119:LYS:CG	2.66	0.41
15:AP:88:ARG:CZ	15:AP:92:HIS:HD2	2.33	0.41
16:AQ:41:ARG:HG3	16:AQ:42:ILE:N	2.35	0.41
17:AR:34:LEU:HD11	17:AR:35:ARG:HG3	2.02	0.41
18:AS:9:PHE:CD2	18:AS:9:PHE:N	2.88	0.41
1:AA:280:C:C1'	19:AT:38:ARG:CZ	2.98	0.41
20:AU:21:LYS:NZ	20:AU:23:LYS:CB	2.66	0.41
20:AU:81:PHE:O	20:AU:82:THR:CG2	2.67	0.41
21:AV:30:LEU:CD1	21:AV:59:PRO:HB3	2.51	0.41
22:AW:51:GLU:CB	22:AW:54:LYS:NZ	2.77	0.41
22:AW:64:ASP:O	22:AW:67:ALA:CA	2.66	0.41
48:B1:28:MET:HE2	48:B1:28:MET:HB3	1.91	0.41
49:B2:29:ARG:C	49:B2:30:ARG:HD2	2.40	0.41
49:B2:8:LEU:HD12	49:B2:31:LEU:C	2.40	0.41
50:B3:8:LYS:CG	50:B3:9:LEU:N	2.76	0.41
52:B5:17:LYS:CE	52:B5:50:ARG:HB2	2.50	0.41
53:B6:1:MET:O	53:B6:2:LYS:C	2.58	0.41
54:B7:10:ALA:HB1	54:B7:64:TYR:CG	2.54	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:B7:63:PRO:CG	54:B7:64:TYR:H	2.33	0.41
24:BA:1033:U:H5''	55:B8:9:ARG:HH21	1.84	0.41
24:BA:1086:A:C3'	24:BA:1087:G:H5'	2.32	0.41
24:BA:1197:G:N3	24:BA:1197:G:H2'	2.34	0.41
24:BA:118:A:C8	24:BA:119:A:C8	3.08	0.41
24:BA:1212:G:C6	24:BA:1236:G:C6	3.08	0.41
24:BA:1305:C:O2'	24:BA:1306:C:C5'	2.68	0.41
24:BA:1340:U:H2'	24:BA:1341:U:OP1	2.20	0.41
24:BA:13:A:C2	24:BA:526:A:N7	2.88	0.41
24:BA:1420:U:C6	24:BA:1420:U:OP2	2.73	0.41
24:BA:1450:C:C2'	24:BA:1451:C:H4'	2.48	0.41
24:BA:120:U:C5	24:BA:150:C:H5	2.37	0.41
24:BA:1549:C:O2'	24:BA:1550:C:H5'	2.19	0.41
24:BA:154:G:C6	24:BA:155:C:N4	2.88	0.41
24:BA:1567:A:OP2	27:BD:86:PRO:HA	2.21	0.41
24:BA:1747:G:HO2'	24:BA:1748:G:H5'	1.85	0.41
24:BA:1791:A:O4'	27:BD:209:ALA:CB	2.61	0.41
24:BA:1829:A:H5'	24:BA:1830:C:OP2	2.20	0.41
24:BA:184:C:H2'	24:BA:185:U:H5	1.86	0.41
24:BA:1990:C:C4	24:BA:1991:U:O4	2.73	0.41
24:BA:573:G:H22	24:BA:2029:G:H21	1.69	0.41
24:BA:2212:A:H61	24:BA:2215:G:H1'	1.85	0.41
24:BA:2279:G:HO2'	24:BA:2280:G:P	2.43	0.41
24:BA:2298:A:N1	24:BA:2321:G:O6	2.52	0.41
24:BA:2304:G:H4'	30:BG:132:ASN:HD21	1.84	0.41
24:BA:2310:A:N1	30:BG:80:PHE:CD2	2.87	0.41
24:BA:2310:A:H2'	24:BA:2311:A:OP2	2.19	0.41
24:BA:2323:G:N3	24:BA:2324:C:C5	2.88	0.41
24:BA:2350:C:H2'	24:BA:2351:G:O5'	2.20	0.41
24:BA:2423:U:O4'	24:BA:2425:A:C8	2.72	0.41
24:BA:2441:C:H2'	24:BA:2441:C:O2	2.20	0.41
24:BA:2470:G:H2'	24:BA:2470:G:N3	2.35	0.41
24:BA:2493:U:H6	24:BA:2493:U:C3'	2.19	0.41
24:BA:2521:C:O2	24:BA:2522:U:O4'	2.38	0.41
24:BA:2564:A:C2	24:BA:2647:U:H5'	2.55	0.41
24:BA:262:A:C4	24:BA:263:C:C6	3.08	0.41
24:BA:2678:C:H2'	24:BA:2679:A:H8	1.85	0.41
24:BA:2772:C:N3	24:BA:2773:C:C5	2.87	0.41
24:BA:2848:G:O2'	24:BA:2849:U:P	2.78	0.41
24:BA:2856:C:O5'	24:BA:2856:C:H6	2.03	0.41
24:BA:2857:G:C3'	24:BA:2857:G:C8	3.03	0.41
24:BA:2899:G:C4	24:BA:2900:A:C8	3.08	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:307:G:C4	24:BA:309:G:OP2	2.72	0.41
24:BA:360:G:C8	24:BA:361:G:C8	3.07	0.41
24:BA:374:A:H2'	24:BA:374:A:N3	2.35	0.41
24:BA:463:G:H3'	24:BA:463:G:C8	2.55	0.41
24:BA:558:G:C2	24:BA:559:G:C8	3.08	0.41
24:BA:559:G:C2'	24:BA:560:C:O4'	2.65	0.41
24:BA:584:C:OP2	41:BT:10:ARG:NH2	2.45	0.41
24:BA:586:A:C2	24:BA:809:G:C2	3.07	0.41
24:BA:612:G:C2	24:BA:615:G:N2	2.88	0.41
24:BA:627:A:H61	24:BA:638:G:C1'	2.15	0.41
24:BA:627:A:P	24:BA:637:A:H61	2.43	0.41
24:BA:636:G:P	36:BO:132:LYS:HG3	2.61	0.41
24:BA:629:G:H5'	24:BA:649:G:C2	2.55	0.41
24:BA:650:C:N3	24:BA:651:G:N3	2.67	0.41
24:BA:667:U:C4	24:BA:668:G:N7	2.89	0.41
24:BA:669:G:C5	24:BA:801:G:N1	2.88	0.41
24:BA:726:G:H5''	24:BA:727:A:OP1	2.20	0.41
24:BA:728:G:H4'	24:BA:729:G:C8	2.55	0.41
24:BA:796:C:H2'	24:BA:797:C:C6	2.55	0.41
24:BA:819:A:C2'	24:BA:820:A:C8	2.97	0.41
24:BA:826:U:OP1	24:BA:2428:G:C3'	2.63	0.41
24:BA:918:A:H2'	25:BB:80:U:O2'	2.20	0.41
24:BA:960:A:C5	24:BA:962:G:C8	3.08	0.41
24:BA:967:C:H3'	24:BA:967:C:C6	2.55	0.41
24:BA:971:C:H2'	24:BA:972:G:O4'	2.20	0.41
25:BB:48:A:H4'	39:BR:95:HIS:CE1	2.54	0.41
25:BB:69:G:C4	25:BB:70:C:C5	3.08	0.41
25:BB:82:G:C2'	25:BB:83:G:OP2	2.67	0.41
25:BB:85:G:C2	25:BB:92:G:C2	3.08	0.41
27:BD:122:ASP:HA	27:BD:135:PHE:CD2	2.56	0.41
27:BD:183:ARG:NH2	27:BD:268:ARG:NH1	2.68	0.41
24:BA:2596:U:O2'	27:BD:242:ARG:HD3	2.20	0.41
28:BE:156:MET:O	28:BE:157:ALA:O	2.38	0.41
28:BE:27:LEU:O	28:BE:180:ASN:HB3	2.20	0.41
29:BF:11:VAL:HG13	29:BF:127:GLU:CB	2.36	0.41
29:BF:140:LEU:O	29:BF:141:ALA:C	2.58	0.41
29:BF:168:ARG:HD3	29:BF:169:ASN:N	2.34	0.41
29:BF:37:VAL:CA	29:BF:184:TYR:CZ	2.99	0.41
29:BF:74:ARG:NH1	29:BF:75:HIS:C	2.73	0.41
24:BA:1257:C:H1'	29:BF:83:PHE:HB2	2.02	0.41
30:BG:113:ARG:HH21	30:BG:139:LEU:CD2	2.33	0.41
30:BG:12:TYR:O	30:BG:13:GLU:C	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:BH:175:LYS:HG2	31:BH:176:ALA:H	1.85	0.41
31:BH:41:MET:HE1	31:BH:68:THR:CG2	2.48	0.41
33:BL:81:ALA:HB1	33:BL:107:ILE:HD13	2.03	0.41
34:BM:53:VAL:CG1	34:BM:123:TYR:HE2	2.33	0.41
34:BM:8:GLN:O	34:BM:10:GLU:N	2.53	0.41
34:BM:99:LEU:HD21	34:BM:122:VAL:CG2	2.40	0.41
35:BN:24:VAL:HG21	35:BN:26:LYS:CG	2.47	0.41
35:BN:47:ILE:CD1	35:BN:52:VAL:CG1	2.91	0.41
35:BN:53:LYS:HB2	35:BN:53:LYS:HE3	1.89	0.41
35:BN:77:ILE:CA	35:BN:78:ARG:NH1	2.82	0.41
36:BO:80:TYR:CZ	36:BO:100:LEU:HG	2.55	0.41
36:BO:56:SER:HB3	54:B7:13:ARG:HH21	1.78	0.41
37:BP:64:ILE:HG22	37:BP:105:GLU:CB	2.50	0.41
38:BQ:9:LYS:O	38:BQ:10:LEU:HD23	2.20	0.41
38:BQ:113:LEU:C	38:BQ:114:VAL:HG23	2.41	0.41
24:BA:1275:A:H1'	38:BQ:12:ARG:HH21	1.85	0.41
38:BQ:75:LEU:CA	38:BQ:78:LYS:HB3	2.46	0.41
39:BR:17:ARG:O	39:BR:20:ARG:HG2	2.20	0.41
39:BR:28:VAL:O	39:BR:29:PHE:CB	2.58	0.41
39:BR:49:VAL:HG11	39:BR:77:ALA:HA	2.02	0.41
40:BS:17:THR:HG21	40:BS:20:PRO:CG	2.50	0.41
40:BS:45:PHE:CZ	40:BS:87:ASP:CB	2.99	0.41
41:BT:110:VAL:HG12	41:BT:114:LYS:NZ	2.35	0.41
41:BT:111:GLU:O	41:BT:114:LYS:HE3	2.20	0.41
41:BT:16:LYS:HD2	41:BT:17:ILE:HD13	2.02	0.41
41:BT:97:ASP:O	41:BT:101:ARG:NE	2.53	0.41
43:BV:8:ARG:O	43:BV:10:VAL:N	2.53	0.41
45:BX:105:ALA:O	45:BX:107:ASP:N	2.53	0.41
45:BX:46:LYS:HB3	45:BX:46:LYS:HZ3	1.85	0.41
46:BY:102:LEU:CD2	46:BY:125:LEU:HD12	2.49	0.41
46:BY:116:VAL:HG23	46:BY:144:LEU:O	2.19	0.41
46:BY:30:ASN:HA	46:BY:89:PHE:CE2	2.55	0.41
47:BZ:21:LEU:HD11	47:BZ:40:GLN:C	2.41	0.41
32:BK:93:THR:HG23	32:BK:95:LYS:N	2.34	0.41
26:BC:87:GLU:CG	26:BC:94:VAL:HG11	2.50	0.41
24:BA:1767:C:N3	24:BA:1768:U:C5	2.88	0.41
15:AP:121:LYS:O	15:AP:121:LYS:HG3	2.20	0.41
24:BA:2155:G:C2'	24:BA:2156:G:O5'	2.68	0.41
2:A1:16:U:N3	2:A1:18:U:OP1	2.53	0.41
1:AA:1044:A:C6	1:AA:1045:C:H1'	2.55	0.41
1:AA:1056:U:H5'	5:AF:163:ALA:CB	2.50	0.41
1:AA:1080:A:O5'	1:AA:1080:A:C8	2.74	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1091:U:C6	1:AA:1093:A:OP2	2.73	0.41
1:AA:1159:U:C5	1:AA:1181:G:C5	3.08	0.41
1:AA:1175:G:H2'	1:AA:1176:A:C8	2.55	0.41
1:AA:1185:G:H2'	1:AA:1186:G:H5'	2.02	0.41
1:AA:1251:A:C2	1:AA:1252:A:N1	2.88	0.41
1:AA:1371:G:C5	1:AA:1372:U:C6	3.08	0.41
1:AA:1422:G:N3	1:AA:1423:G:C8	2.88	0.41
1:AA:1480:G:C2'	1:AA:1481:U:H5'	2.50	0.41
1:AA:149:A:C2	1:AA:150:C:C4	3.08	0.41
1:AA:1518:A:C6	1:AA:1519:A:N6	2.88	0.41
1:AA:25:C:H4'	1:AA:524:G:C2	2.55	0.41
1:AA:296:U:O2'	1:AA:556:C:O2'	2.22	0.41
1:AA:468:A:H4'	18:AS:82:GLN:CB	2.38	0.41
1:AA:486:U:O2	1:AA:486:U:C2'	2.67	0.41
1:AA:607:A:C4	1:AA:608:A:H8	2.38	0.41
1:AA:671:G:C2'	1:AA:672:U:O4'	2.67	0.41
1:AA:64:G:N2	1:AA:68:G:O6	2.42	0.41
1:AA:667:G:C6	1:AA:740:U:C4	3.08	0.41
1:AA:811:C:C5	1:AA:812:C:O2	2.73	0.41
1:AA:812:C:O4'	1:AA:813:U:C6	2.73	0.41
1:AA:994:A:H2	16:AQ:4:LYS:HG2	1.86	0.41
3:AB:62:C:C2	3:AB:63:G:C8	3.08	0.41
3:AC:33:U:N1	3:AC:35:A:OP2	2.53	0.41
4:AE:163:PHE:HE1	4:AE:201:ILE:CD1	2.30	0.41
4:AE:173:ALA:C	4:AE:176:GLU:HB2	2.40	0.41
4:AE:213:LEU:HD21	4:AE:217:ARG:HE	1.85	0.41
4:AE:80:ILE:HG23	4:AE:212:GLN:NE2	2.32	0.41
5:AF:108:ASN:ND2	5:AF:111:LEU:CD1	2.72	0.41
5:AF:119:ARG:C	5:AF:121:ALA:N	2.70	0.41
5:AF:150:LYS:HA	5:AF:169:ALA:HB1	2.01	0.41
5:AF:38:ARG:HB2	5:AF:94:LEU:CG	2.50	0.41
5:AF:47:LEU:CD1	5:AF:49:SER:HB3	2.47	0.41
5:AF:22:TRP:CB	5:AF:59:ARG:CB	2.87	0.41
6:AG:57:ARG:HB3	6:AG:206:PHE:CB	2.34	0.41
7:AH:14:ARG:HG3	7:AH:14:ARG:O	2.20	0.41
8:AI:50:TYR:CE1	8:AI:52:ILE:HD11	2.54	0.41
10:AK:84:ARG:C	10:AK:135:CYS:SG	2.98	0.41
10:AK:12:ARG:HB2	10:AK:26:VAL:HG21	2.01	0.41
10:AK:65:TYR:HE2	10:AK:78:GLN:CD	2.24	0.41
10:AK:65:TYR:HB2	10:AK:66:GLY:H	1.56	0.41
12:AM:46:ARG:NE	12:AM:64:GLU:OE2	2.54	0.41
12:AM:51:ARG:N	12:AM:60:ARG:HA	2.35	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AN:21:ILE:HG22	13:AN:30:VAL:HG21	2.01	0.41
14:AO:37:CYS:SG	14:AO:78:GLN:O	2.78	0.41
14:AO:39:VAL:CB	14:AO:57:LYS:HB2	2.34	0.41
15:AP:20:THR:HA	15:AP:25:ILE:C	2.40	0.41
15:AP:74:VAL:O	15:AP:78:ILE:CG1	2.64	0.41
17:AR:13:GLN:O	17:AR:15:PHE:N	2.53	0.41
17:AR:29:VAL:CG2	17:AR:81:LEU:HD11	2.39	0.41
18:AS:40:ASP:OD1	18:AS:48:TRP:HB2	2.20	0.41
1:AA:761:G:C1'	19:AT:103:GLY:O	2.68	0.41
19:AT:86:GLU:O	19:AT:87:LYS:C	2.56	0.41
22:AW:16:HIS:O	22:AW:19:SER:HB3	2.20	0.41
22:AW:50:GLU:CA	22:AW:99:LEU:HD12	2.49	0.41
24:BA:850:C:C5'	49:B2:18:ASP:HB2	2.50	0.41
49:B2:37:LEU:O	49:B2:37:LEU:HG	2.05	0.41
49:B2:40:THR:C	49:B2:42:ALA:N	2.72	0.41
49:B2:7:LYS:CE	49:B2:32:GLN:HA	2.50	0.41
50:B3:5:ILE:O	50:B3:56:VAL:HA	2.20	0.41
50:B3:5:ILE:CB	50:B3:7:PRO:HD2	2.46	0.41
52:B5:35:GLU:O	52:B5:36:LEU:O	2.38	0.41
53:B6:24:THR:C	53:B6:28:ARG:HE	2.24	0.41
24:BA:1009:A:H5'	41:BT:59:ARG:HH12	1.84	0.41
24:BA:1031:G:C4	24:BA:1032:A:N7	2.88	0.41
24:BA:1071:G:C3'	24:BA:1072:C:C5'	2.98	0.41
24:BA:1055:G:N2	24:BA:1084:A:N3	2.66	0.41
24:BA:1100:C:H2'	24:BA:1101:U:OP1	2.20	0.41
24:BA:1101:U:O2	24:BA:1102:C:C6	2.73	0.41
24:BA:1013:C:OP2	24:BA:1142:U:C2	2.73	0.41
24:BA:1147:C:C2	24:BA:1148:A:C8	3.08	0.41
24:BA:1196:C:H2'	24:BA:1197:G:N9	2.35	0.41
24:BA:1234:U:C4	24:BA:1235:G:C2	3.08	0.41
24:BA:1264:G:C6	24:BA:1265:A:N7	2.86	0.41
24:BA:1296:G:C2	24:BA:1297:C:C4	3.09	0.41
24:BA:1298:C:C4	24:BA:1299:G:C6	3.08	0.41
24:BA:1325:G:OP2	24:BA:1616:A:C8	2.73	0.41
24:BA:1355:G:C2	24:BA:1377:G:C2	3.09	0.41
24:BA:1385:G:O2'	24:BA:1386:C:C5'	2.68	0.41
24:BA:1410:G:C6	24:BA:1411:C:C4	3.07	0.41
24:BA:1423:G:C2	24:BA:1424:G:C8	3.08	0.41
24:BA:1498:C:H2'	24:BA:1498:C:O2	2.21	0.41
24:BA:1553:A:H2'	24:BA:1555:G:N7	2.36	0.41
24:BA:1560:G:C5	24:BA:1561:G:C5	3.07	0.41
24:BA:1625:C:C3'	24:BA:1626:G:H4'	2.47	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1835:G:C2	24:BA:1836:C:C6	3.08	0.41
24:BA:1853:A:OP2	24:BA:1853:A:H8	2.03	0.41
24:BA:1916:A:N3	24:BA:1916:A:H2'	2.35	0.41
24:BA:1951:U:H2'	24:BA:1951:U:O2	2.19	0.41
24:BA:2000:G:C6	24:BA:2001:A:N7	2.89	0.41
24:BA:2014:A:C2'	24:BA:2015:A:OP2	2.69	0.41
24:BA:2026:C:O2	24:BA:2027:G:O4'	2.38	0.41
24:BA:2033:A:C6	24:BA:2036:C:N3	2.88	0.41
24:BA:2040:C:C2'	24:BA:2041:U:O5'	2.68	0.41
24:BA:2093:G:C2'	24:BA:2094:G:H5'	2.50	0.41
24:BA:2094:G:N7	24:BA:2095:C:C4	2.88	0.41
24:BA:2096:U:C2	24:BA:2097:C:H5	2.37	0.41
24:BA:215:G:H1'	24:BA:216:A:H5''	2.00	0.41
24:BA:2230:G:N1	24:BA:2231:C:C4	2.89	0.41
24:BA:2280:G:C6	24:BA:2281:C:N4	2.88	0.41
24:BA:21:A:H2'	24:BA:22:C:O4'	2.20	0.41
24:BA:2333:A:H1'	24:BA:2335:A:C2	2.41	0.41
24:BA:2353:G:N1	24:BA:2365:G:C2	2.88	0.41
24:BA:2354:G:O2'	24:BA:2355:C:H5'	2.20	0.41
24:BA:2361:A:C4	24:BA:2362:G:C8	3.08	0.41
24:BA:2077:A:C5	24:BA:2435:A:N7	2.88	0.41
24:BA:2472:G:C4	24:BA:2475:C:N3	2.88	0.41
24:BA:2515:C:H2'	24:BA:2516:G:O5'	2.20	0.41
24:BA:2644:G:N1	24:BA:2645:G:C2	2.88	0.41
24:BA:2653:U:C4	24:BA:2654:A:N6	2.86	0.41
24:BA:2660:A:H2'	24:BA:2661:G:C5'	2.50	0.41
24:BA:270(L):U:C2'	24:BA:270(L):U:O2	2.65	0.41
24:BA:270(T):G:C6	24:BA:270(U):C:C4	3.08	0.41
24:BA:2808:U:H1'	24:BA:2892:A:H61	1.85	0.41
24:BA:2850:A:C4	24:BA:2851:A:C8	3.08	0.41
24:BA:291:C:C4	24:BA:292:C:C5	3.08	0.41
24:BA:292:C:N4	24:BA:346:A:H62	2.19	0.41
24:BA:330:A:H1'	24:BA:1210:A:C5	2.55	0.41
24:BA:336:C:HO2'	24:BA:337:C:H5'	1.80	0.41
24:BA:379:G:C6	24:BA:380:U:C4	3.08	0.41
24:BA:399:G:N1	24:BA:400:G:H1'	2.34	0.41
24:BA:476:G:N2	24:BA:479:A:OP2	2.50	0.41
24:BA:483:A:C2	24:BA:484:C:C1'	3.03	0.41
24:BA:564:C:H1'	41:BT:37:GLU:OE2	2.17	0.41
24:BA:596:G:H2'	24:BA:597:U:O4'	2.20	0.41
24:BA:612:G:N2	24:BA:617:G:N1	2.64	0.41
24:BA:638:G:N2	24:BA:651:G:H5'	2.35	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:693:C:H4'	24:BA:1354:A:H1'	2.03	0.41
24:BA:719:C:O2'	24:BA:720:C:H5'	2.19	0.41
24:BA:821:A:C8	24:BA:946:G:C4	3.08	0.41
24:BA:826:U:C4	24:BA:828:U:H6	2.38	0.41
24:BA:886:C:H4'	24:BA:887:A:O4'	2.19	0.41
24:BA:903:C:C2	24:BA:904:C:C5	3.08	0.41
24:BA:569:U:H2'	24:BA:983:A:N6	2.35	0.41
24:BA:996:A:N3	24:BA:997:G:C8	2.88	0.41
25:BB:29:A:P	39:BR:34:HIS:ND1	2.93	0.41
25:BB:71:C:C3'	25:BB:72:G:C5'	2.95	0.41
25:BB:82:G:H2'	25:BB:83:G:OP2	2.20	0.41
27:BD:117:VAL:C	27:BD:118:VAL:HG22	2.39	0.41
27:BD:182:LEU:HD12	27:BD:270:ILE:CD1	2.47	0.41
24:BA:1788:C:C1'	27:BD:222:ARG:HH21	2.32	0.41
27:BD:75:ILE:HG22	27:BD:75:ILE:O	2.19	0.41
27:BD:63:ARG:HB3	27:BD:88:ARG:HH21	1.85	0.41
27:BD:9:TYR:CD1	27:BD:25:THR:HG23	2.56	0.41
28:BE:105:THR:HG22	28:BE:199:ARG:CZ	2.50	0.41
28:BE:128:SER:O	28:BE:129:HIS:C	2.56	0.41
28:BE:13:ARG:NE	28:BE:21:VAL:N	2.68	0.41
28:BE:176:ILE:HG23	28:BE:181:LEU:H	1.85	0.41
28:BE:23:VAL:HG11	28:BE:188:VAL:HG22	2.01	0.41
24:BA:2820:A:H62	28:BE:192:ASN:H	1.69	0.41
28:BE:49:LEU:HD11	28:BE:76:ARG:H	1.85	0.41
29:BF:38:ARG:O	29:BF:42:ALA:CB	2.68	0.41
24:BA:449:A:O3'	29:BF:52:LYS:HD3	2.20	0.41
30:BG:163:ALA:O	30:BG:164:GLU:C	2.57	0.41
30:BG:53:LEU:N	30:BG:53:LEU:HD12	2.35	0.41
30:BG:36:LYS:HB2	30:BG:95:ARG:O	2.20	0.41
30:BG:9:ARG:CG	30:BG:9:ARG:NH1	2.80	0.41
32:BK:3:VAL:HG13	32:BK:31:LEU:HD12	2.01	0.41
33:BL:123:ALA:O	33:BL:127:ILE:HG13	2.21	0.41
24:BA:1098:A:O2'	33:BL:30:HIS:HE1	2.04	0.41
24:BA:1077:A:P	33:BL:93:ARG:HB2	2.61	0.41
34:BM:109:LYS:HG3	34:BM:112:LEU:HB2	1.98	0.41
34:BM:57:ALA:HB1	34:BM:99:LEU:HD23	2.02	0.41
35:BN:111:PHE:HD1	35:BN:115:VAL:HG23	1.86	0.41
35:BN:85:VAL:CB	35:BN:93:PRO:HG3	2.46	0.41
35:BN:17:ARG:NH2	35:BN:98:VAL:O	2.52	0.41
36:BO:74:GLU:HB2	36:BO:107:LYS:HD3	2.01	0.41
36:BO:107:LYS:HZ1	36:BO:110:TYR:CB	2.14	0.41
24:BA:662:G:OP1	36:BO:19:VAL:CG1	2.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BO:49:ARG:CG	36:BO:49:ARG:NH2	2.81	0.41
36:BO:81:GLN:CA	36:BO:86:LYS:HG2	2.48	0.41
37:BP:110:THR:O	37:BP:111:GLU:HG2	2.19	0.41
37:BP:43:THR:HG23	37:BP:46:GLN:NE2	2.34	0.41
37:BP:48:GLU:O	37:BP:49:ALA:C	2.57	0.41
38:BQ:55:ALA:HA	38:BQ:80:PHE:CE1	2.54	0.41
41:BT:24:TYR:N	41:BT:24:TYR:CD1	2.89	0.41
41:BT:34:LYS:HA	41:BT:37:GLU:HB2	2.02	0.41
41:BT:28:ARG:CB	41:BT:38:THR:HG21	2.37	0.41
41:BT:39:LEU:HD23	41:BT:39:LEU:HA	1.53	0.41
42:BU:37:VAL:CG1	42:BU:37:VAL:O	2.68	0.41
42:BU:49:THR:CB	42:BU:50:PRO:CD	2.88	0.41
43:BV:17:VAL:HG23	43:BV:18:ARG:N	2.33	0.41
45:BX:76:CYS:HB2	45:BX:100:ALA:CB	2.50	0.41
45:BX:13:VAL:N	45:BX:73:ARG:CZ	2.83	0.41
24:BA:2161:C:N3	24:BA:2162:G:N7	2.68	0.41
24:BA:2167:U:O2	24:BA:2167:U:H2'	2.20	0.41
26:BC:86:ALA:HB2	26:BC:149:ILE:HG12	2.01	0.41
26:BC:189:ILE:HD13	26:BC:224:ILE:HD12	2.01	0.41
48:B1:6:GLU:OE1	48:B1:6:GLU:HA	2.20	0.41
24:BA:181:A:H5'	24:BA:181:A:H8	1.78	0.41
24:BA:1588:C:O2'	24:BA:1589:C:H5'	2.21	0.41
1:AA:1166:G:C2	1:AA:1171:G:O6	2.72	0.41
32:BK:136:VAL:CG2	32:BK:136:VAL:O	2.68	0.41
24:BA:43:G:C2	24:BA:438:G:C4	3.08	0.41
24:BA:132:G:H2'	24:BA:132:G:N3	2.34	0.41
24:BA:363(F):A:N3	24:BA:363(F):A:H2'	2.34	0.41
18:AS:2:VAL:O	18:AS:2:VAL:HG12	2.20	0.41
2:A1:37:U:C2'	2:A1:38:U:C6	3.04	0.41
2:A1:39:U:C3'	2:A1:39:U:C6	3.04	0.41
1:AA:1095:U:H5'	1:AA:1109:C:C2	2.56	0.41
1:AA:1401:G:C6	1:AA:1504:G:N2	2.88	0.41
1:AA:1474:G:C6	1:AA:1475:G:N7	2.88	0.41
1:AA:1507:A:N6	1:AA:1530:G:C5	2.88	0.41
1:AA:66:G:O4'	1:AA:173:U:C4	2.72	0.41
1:AA:265:G:H5''	19:AT:65:ILE:HA	2.03	0.41
1:AA:274:A:O3'	1:AA:275:G:O4'	2.38	0.41
1:AA:317:G:C2'	1:AA:318:G:C5'	2.99	0.41
1:AA:328:C:O2'	1:AA:329:A:O5'	2.32	0.41
1:AA:452:A:C6	1:AA:453:A:N6	2.88	0.41
1:AA:46:G:N2	1:AA:366:C:C1'	2.83	0.41
1:AA:48:C:H2'	1:AA:49:U:OP1	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:50:A:H61	1:AA:361:G:C5'	2.33	0.41
1:AA:51:A:H4'	1:AA:52:G:O5'	2.16	0.41
1:AA:538:G:O3'	14:AO:114:LYS:CD	2.52	0.41
1:AA:547:A:C4'	1:AA:548:G:OP1	2.69	0.41
1:AA:686:U:O4	1:AA:703:G:O2'	2.38	0.41
1:AA:730:G:C2'	1:AA:731:G:H5'	2.49	0.41
1:AA:739:C:O2	1:AA:739:C:C2'	2.69	0.41
1:AA:856:C:O2	1:AA:856:C:H2'	2.19	0.41
1:AA:892:A:C4	1:AA:907:A:C6	3.09	0.41
3:AC:28:G:N1	3:AC:43:C:C2	2.89	0.41
4:AE:70:PHE:O	4:AE:92:TYR:CB	2.67	0.41
4:AE:96:ARG:O	4:AE:98:LEU:N	2.53	0.41
5:AF:142:MET:HG3	5:AF:143:GLU:N	2.35	0.41
5:AF:165:THR:CG2	5:AF:166:GLU:N	2.81	0.41
5:AF:66:VAL:O	5:AF:102:ASN:ND2	2.53	0.41
6:AG:107:ARG:HD2	6:AG:173:TRP:CH2	2.55	0.41
6:AG:169:LYS:HA	6:AG:176:LEU:HD11	2.02	0.41
6:AG:191:ARG:O	6:AG:194:LEU:HD23	2.20	0.41
6:AG:18:LYS:HE2	6:AG:20:TYR:HB3	2.03	0.41
6:AG:13:ARG:NH1	6:AG:36:ARG:HB2	2.28	0.41
6:AG:4:TYR:CD2	6:AG:5:ILE:N	2.88	0.41
7:AH:9:LYS:HD3	7:AH:108:ALA:HB1	2.02	0.41
7:AH:43:LEU:CB	7:AH:136:MET:HE1	2.50	0.41
7:AH:39:GLY:C	7:AH:68:GLU:OE2	2.59	0.41
8:AI:7:ASN:O	8:AI:8:ILE:HG12	2.19	0.41
9:AJ:118:VAL:HG12	9:AJ:122:HIS:NE2	2.36	0.41
9:AJ:143:ARG:O	9:AJ:144:MET:C	2.59	0.41
9:AJ:27:ILE:HA	9:AJ:30:ILE:HD12	2.02	0.41
9:AJ:69:VAL:O	9:AJ:138:LYS:HD2	2.19	0.41
9:AJ:87:VAL:HG21	9:AJ:154:TYR:CB	2.49	0.41
10:AK:39:LEU:HB3	10:AK:40:ALA:H	1.75	0.41
12:AM:76:ASN:C	12:AM:78:ASN:N	2.69	0.41
13:AN:33:THR:CA	13:AN:38:ASN:O	2.69	0.41
13:AN:86:GLY:N	13:AN:112:THR:HG23	2.35	0.41
1:AA:538:G:C3'	14:AO:114:LYS:HD3	2.48	0.41
15:AP:102:ARG:C	15:AP:104:ARG:N	2.71	0.41
15:AP:56:LEU:O	15:AP:59:TYR:CB	2.51	0.41
17:AR:71:GLN:CA	17:AR:78:TYR:CD1	3.03	0.41
1:AA:255:G:OP1	19:AT:69:LYS:NZ	2.53	0.41
20:AU:53:ARG:O	20:AU:55:ARG:N	2.54	0.41
21:AV:16:LEU:O	21:AV:19:VAL:N	2.53	0.41
21:AV:44:MET:O	21:AV:62:ILE:HD13	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AW:41:ILE:O	22:AW:91:LEU:CD1	2.68	0.41
22:AW:79:ARG:HG3	22:AW:79:ARG:NH1	2.34	0.41
48:B1:24:LYS:HA	48:B1:52:ILE:HD13	2.02	0.41
44:BW:7:VAL:CG2	48:B1:31:ARG:NH1	2.79	0.41
24:BA:1363:C:N4	50:B3:2:LYS:CD	2.83	0.41
50:B3:6:HIS:CB	50:B3:56:VAL:HG13	2.48	0.41
24:BA:2624:G:H1'	51:B4:22:HIS:NE2	2.35	0.41
53:B6:43:THR:O	53:B6:46:VAL:CA	2.68	0.41
54:B7:15:LYS:O	54:B7:22:VAL:CB	2.68	0.41
55:B8:2:LYS:O	55:B8:3:VAL:CG2	2.58	0.41
24:BA:1074:G:C4	24:BA:1075:C:N4	2.87	0.41
24:BA:1112:G:OP1	31:BH:4:ILE:HG21	2.20	0.41
24:BA:991:C:H5'	24:BA:1185:C:H2'	2.02	0.41
24:BA:991:C:O4'	24:BA:1185:C:H2'	2.20	0.41
24:BA:119:A:O2'	24:BA:120:U:H3'	2.20	0.41
24:BA:1323:U:C5	24:BA:1324:G:N7	2.89	0.41
24:BA:1348:G:O6	24:BA:1349:A:C6	2.74	0.41
24:BA:1356:G:H2'	24:BA:1357:U:C5'	2.51	0.41
24:BA:1356:G:C5	24:BA:1357:U:C5	3.08	0.41
24:BA:1496:A:H2'	24:BA:1497:U:H5	1.84	0.41
24:BA:1536:A:C5	24:BA:1537:C:C4	3.08	0.41
24:BA:1558:A:H4'	24:BA:1559:G:N7	2.36	0.41
24:BA:1648:C:H2'	24:BA:1648:C:O2	2.20	0.41
24:BA:1675:C:O2	24:BA:1676:A:C8	2.73	0.41
24:BA:1689:A:C6	24:BA:1698:A:C2	3.07	0.41
24:BA:174:C:N3	24:BA:175:G:C8	2.88	0.41
24:BA:1786:A:C5	24:BA:1787:A:C5	3.08	0.41
24:BA:1786:A:N7	24:BA:1787:A:N7	2.69	0.41
24:BA:1952:A:C2	35:BN:22:ILE:HG23	2.56	0.41
24:BA:1969:A:C4'	24:BA:1970:A:H5'	2.37	0.41
24:BA:1972:A:C2	24:BA:1973:G:N7	2.89	0.41
24:BA:18:C:C2	24:BA:19:C:C6	3.08	0.41
24:BA:1660:C:N3	24:BA:2001:A:C6	2.88	0.41
24:BA:2015:A:H2'	24:BA:2016:U:H6	1.86	0.41
24:BA:2018:G:C5	24:BA:2019:A:C5	3.08	0.41
24:BA:2033:A:C2'	24:BA:2034:U:O5'	2.68	0.41
24:BA:2090:G:C2	24:BA:2091:U:N3	2.89	0.41
24:BA:2338:G:C6	24:BA:2339:G:N7	2.88	0.41
24:BA:2371:G:N2	24:BA:2372:G:C2	2.88	0.41
24:BA:2468:G:C3'	24:BA:2476:A:C2	2.94	0.41
24:BA:2708:G:OP1	38:BQ:68:ARG:CG	2.65	0.41
24:BA:2721:A:H3'	24:BA:2722:G:C8	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2746:U:H2'	24:BA:2747:G:H8	1.86	0.41
24:BA:2781:A:O3'	24:BA:2782:G:C4'	2.66	0.41
24:BA:322:A:O2'	24:BA:323:G:OP2	2.37	0.41
24:BA:398:G:H2'	24:BA:399:G:O4'	2.21	0.41
24:BA:408:G:O5'	24:BA:408:G:C8	2.64	0.41
24:BA:480:A:C2'	24:BA:481:G:OP1	2.68	0.41
24:BA:519:U:O5'	43:BV:75:TYR:HD1	2.02	0.41
24:BA:531:C:C2	24:BA:532:A:O2'	2.66	0.41
24:BA:594:U:N3	24:BA:595:C:N4	2.69	0.41
24:BA:622:G:C6	24:BA:623:G:N2	2.89	0.41
24:BA:631:A:C8	24:BA:631:A:OP1	2.73	0.41
24:BA:64:A:H2'	24:BA:65:C:O4'	2.21	0.41
24:BA:699:A:O5'	24:BA:699:A:H8	2.03	0.41
24:BA:774:A:H5'	24:BA:778:G:C4'	2.50	0.41
24:BA:879:G:C2	24:BA:880:G:C4	3.08	0.41
24:BA:930:U:O2	24:BA:932:G:N2	2.52	0.41
24:BA:956:G:C8	24:BA:956:G:C3'	3.04	0.41
24:BA:970:C:O2	24:BA:970:C:C2'	2.69	0.41
25:BB:44:G:H1'	25:BB:47:C:H42	1.85	0.41
25:BB:8:U:O2	25:BB:9:G:C8	2.74	0.41
27:BD:136:ILE:H	27:BD:168:ARG:NH2	2.17	0.41
27:BD:201:HIS:HB3	27:BD:202:LYS:HD2	2.02	0.41
27:BD:265:PRO:O	27:BD:267:SER:N	2.53	0.41
27:BD:77:ALA:CB	27:BD:95:LEU:HD11	2.46	0.41
28:BE:119:ARG:HE	28:BE:120:TRP:CA	2.34	0.41
24:BA:2512:C:O4'	28:BE:139:GLY:HA3	2.20	0.41
28:BE:119:ARG:CZ	28:BE:155:LYS:CG	2.98	0.41
24:BA:659:C:C4'	29:BF:102:PRO:HD3	2.50	0.41
29:BF:133:ASN:CG	29:BF:162:LEU:CD1	2.89	0.41
30:BG:133:LEU:HD13	30:BG:133:LEU:HA	1.93	0.41
31:BH:22:GLY:O	31:BH:37:VAL:HG22	2.20	0.41
33:BL:108:ALA:O	33:BL:109:LYS:C	2.58	0.41
33:BL:104:VAL:O	33:BL:127:ILE:HD12	2.20	0.41
33:BL:9:LYS:HG2	33:BL:56:GLU:OE2	2.21	0.41
34:BM:30:ILE:O	34:BM:33:LEU:HD12	2.21	0.41
36:BO:111:ARG:CD	36:BO:129:ALA:HB2	2.50	0.41
36:BO:130:PHE:O	36:BO:131:SER:C	2.59	0.41
36:BO:45:LEU:HB3	36:BO:46:LYS:HE3	2.01	0.41
37:BP:130:LYS:HE2	37:BP:130:LYS:HB3	1.66	0.41
38:BQ:53:HIS:CE1	38:BQ:56:LYS:HE2	2.54	0.41
38:BQ:74:LYS:NZ	38:BQ:74:LYS:CB	2.72	0.41
40:BS:45:PHE:HE1	40:BS:86:ILE:CG2	2.33	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BT:57:PHE:O	41:BT:60:LEU:N	2.54	0.41
42:BU:78:LYS:HG3	42:BU:79:VAL:N	2.35	0.41
24:BA:2010:G:OP2	43:BV:41:LYS:HE2	2.20	0.41
24:BA:58:G:OP1	44:BW:75:ASP:N	2.53	0.41
46:BY:24:LEU:HD12	46:BY:41:LEU:CD2	2.50	0.41
32:BK:86:THR:C	32:BK:122:GLU:O	2.58	0.41
32:BK:98:ALA:O	32:BK:102:SER:CB	2.68	0.41
24:BA:2115:G:O2'	24:BA:2171:A:N6	2.52	0.41
24:BA:2168:G:N2	24:BA:2170:A:C3'	2.79	0.41
26:BC:138:PRO:HA	26:BC:144:THR:HB	2.02	0.41
26:BC:214:VAL:HG23	26:BC:224:ILE:HG21	2.02	0.41
26:BC:52:ARG:CG	26:BC:53:ARG:N	2.84	0.41
26:BC:62:VAL:CG2	26:BC:63:SER:N	2.82	0.41
24:BA:1489:U:H4'	24:BA:1490:A:OP2	2.20	0.41
48:B1:10:LYS:N	48:B1:10:LYS:HD3	2.35	0.41
48:B1:3:LYS:O	48:B1:6:GLU:CB	2.68	0.41
1:AA:336:C:O2'	1:AA:337:C:H5'	2.20	0.41
24:BA:2101:G:C6	24:BA:2102:U:C4	3.09	0.41
24:BA:491:G:C4	24:BA:492:A:C8	3.08	0.41
2:A1:37:U:H2'	2:A1:38:U:N3	2.36	0.41
1:AA:1068:G:H2'	1:AA:1069:C:O4'	2.20	0.41
1:AA:1151:A:N7	1:AA:1152:A:N7	2.69	0.41
1:AA:1181:G:H2'	1:AA:1182:G:C5'	2.51	0.41
1:AA:1255:G:N2	1:AA:1276:G:H21	2.16	0.41
1:AA:1256:A:O2'	1:AA:1257:U:C1'	2.67	0.41
1:AA:1314:C:OP2	21:AV:6:LYS:CB	2.68	0.41
1:AA:1346:A:C8	1:AA:1348:U:C4	3.09	0.41
1:AA:1377:A:H5''	1:AA:1378:C:C5	2.54	0.41
1:AA:1415:G:H2'	1:AA:1416:G:C5'	2.51	0.41
1:AA:1502:A:N1	1:AA:1504:G:C2	2.89	0.41
1:AA:1521:G:N3	1:AA:1522:U:C6	2.89	0.41
1:AA:188:U:H2'	1:AA:189:U:O5'	2.20	0.41
1:AA:253:U:H2'	1:AA:254:G:H8	1.85	0.41
1:AA:292:G:C8	1:AA:293:G:H1'	2.55	0.41
1:AA:317:G:C2	1:AA:318:G:C8	3.08	0.41
1:AA:390:C:C2	1:AA:391:G:N7	2.88	0.41
1:AA:541:G:H2'	1:AA:542:G:C8	2.53	0.41
1:AA:552:U:H2'	1:AA:553:A:O4'	2.20	0.41
1:AA:577:G:HO2'	1:AA:578:C:P	2.42	0.41
1:AA:68:G:C4'	1:AA:171:A:C1'	2.98	0.41
1:AA:570:G:OP2	1:AA:820:U:O2'	2.39	0.41
1:AA:874:G:C6	1:AA:875:C:C4	3.08	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:897:C:H2'	1:AA:898:G:O5'	2.20	0.41
1:AA:970:C:C5'	1:AA:972:C:C6	3.03	0.41
1:AA:981:U:OP2	1:AA:981:U:C5	2.73	0.41
1:AA:989:C:H2'	1:AA:990:C:C5'	2.48	0.41
3:AB:12:U:O5'	3:AB:12:U:H6	2.03	0.41
3:AB:32:U:C4	3:AB:33:U:C4	3.08	0.41
3:AC:15:G:N3	3:AC:15:G:H2'	2.36	0.41
3:AC:21:A:N6	3:AC:46:G:H1	2.17	0.41
4:AE:157:ARG:O	4:AE:158:LEU:CG	2.68	0.41
4:AE:180:LEU:O	4:AE:181:PHE:CB	2.61	0.41
4:AE:89:GLY:O	4:AE:90:MET:HG2	2.20	0.41
5:AF:94:LEU:O	5:AF:95:THR:CG2	2.67	0.41
5:AF:97:LYS:O	5:AF:98:ASN:O	2.37	0.41
6:AG:106:TYR:CZ	6:AG:112:VAL:O	2.73	0.41
6:AG:3:ARG:HH11	6:AG:3:ARG:HG3	1.85	0.41
6:AG:4:TYR:CZ	6:AG:5:ILE:O	2.73	0.41
7:AH:135:THR:HG22	7:AH:139:LEU:HD11	2.02	0.41
1:AA:923:A:H5''	7:AH:21:ALA:HB2	2.02	0.41
7:AH:28:PHE:HE1	7:AH:49:PRO:O	2.04	0.41
7:AH:79:GLU:HG3	7:AH:93:PRO:HD3	2.00	0.41
8:AI:4:TYR:CA	8:AI:93:SER:OG	2.68	0.41
8:AI:76:ALA:CA	8:AI:79:LEU:HG	2.50	0.41
9:AJ:72:ARG:HH11	9:AJ:72:ARG:CG	2.32	0.41
9:AJ:88:PRO:HD2	9:AJ:152:ALA:HA	2.01	0.41
1:AA:643:C:O2'	10:AK:132:GLU:CD	2.58	0.41
10:AK:14:ARG:NE	10:AK:15:ASN:ND2	2.68	0.41
11:AL:113:LYS:C	11:AL:115:GLY:H	2.21	0.41
11:AL:3:GLN:HG3	11:AL:20:ARG:HD3	2.02	0.41
12:AM:34:VAL:HG13	12:AM:74:ILE:HG12	2.02	0.41
13:AN:54:ARG:O	13:AN:57:THR:N	2.54	0.41
13:AN:21:ILE:HD11	13:AN:82:VAL:HG11	2.03	0.41
14:AO:7:ILE:O	14:AO:10:LEU:HB2	2.21	0.41
14:AO:62:SER:O	14:AO:64:TYR:N	2.53	0.41
14:AO:69:TYR:O	14:AO:100:ILE:HD11	2.21	0.41
15:AP:10:PRO:O	15:AP:45:VAL:HG11	2.20	0.41
15:AP:24:GLY:C	15:AP:25:ILE:HG12	2.41	0.41
16:AQ:41:ARG:HA	16:AQ:44:LEU:HD22	2.02	0.41
16:AQ:47:LEU:HA	16:AQ:47:LEU:HD23	1.67	0.41
17:AR:18:PHE:C	17:AR:20:GLY:H	2.23	0.41
1:AA:728:A:C5'	17:AR:54:ARG:HH22	2.32	0.41
19:AT:10:VAL:HG11	19:AT:53:LEU:N	2.36	0.41
19:AT:36:ILE:N	19:AT:36:ILE:CD1	2.65	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:AT:27:PHE:O	19:AT:36:ILE:HG12	2.20	0.41
19:AT:78:GLU:HG3	19:AT:79:SER:N	2.34	0.41
20:AU:53:ARG:C	20:AU:55:ARG:H	2.23	0.41
20:AU:78:LEU:C	20:AU:79:LEU:CD1	2.82	0.41
22:AW:53:LEU:HB2	22:AW:100:ILE:CD1	2.50	0.41
22:AW:51:GLU:HG2	22:AW:51:GLU:H	1.65	0.41
22:AW:74:LYS:H	22:AW:74:LYS:HD3	1.86	0.41
48:B1:15:GLU:O	48:B1:17:GLU:N	2.54	0.41
48:B1:30:LEU:HD13	48:B1:45:ILE:HA	2.03	0.41
48:B1:58:VAL:O	48:B1:60:ASN:N	2.53	0.41
49:B2:2:PRO:O	49:B2:39:ASP:HB2	2.20	0.41
49:B2:55:ARG:HH21	49:B2:55:ARG:CG	2.30	0.41
50:B3:48:ARG:H	50:B3:52:THR:HG1	1.67	0.41
51:B4:29:THR:O	51:B4:30:LEU:HG	2.21	0.41
24:BA:2017:U:C2'	51:B4:8:LYS:O	2.68	0.41
24:BA:1028:A:O2'	24:BA:1029:A:H5'	2.19	0.41
24:BA:1112:G:O4'	24:BA:1112:G:P	2.79	0.41
24:BA:1152:C:OP1	41:BT:81:HIS:CE1	2.73	0.41
24:BA:1157:G:C2	24:BA:1158:C:C2	3.09	0.41
24:BA:1168:G:H8	24:BA:1168:G:O5'	2.04	0.41
24:BA:1255:U:OP1	24:BA:1256:G:H4'	2.20	0.41
24:BA:1319:G:HO2'	24:BA:1320:C:H5'	1.84	0.41
24:BA:1343:G:C2	24:BA:1405:U:C6	3.08	0.41
24:BA:1467:C:H4'	24:BA:1467:C:OP1	2.20	0.41
24:BA:1491:G:H4'	27:BD:72:LYS:HZ1	1.84	0.41
24:BA:1521:G:H8	24:BA:1522:G:O4'	2.03	0.41
24:BA:1535:U:N3	24:BA:1536:A:C4	2.88	0.41
24:BA:1629:U:H1'	24:BA:2699:C:P	2.61	0.41
24:BA:1731:G:N2	24:BA:1732:A:OP2	2.50	0.41
24:BA:1754:C:H5	40:BS:98:LYS:CD	2.33	0.41
24:BA:1777:U:O2'	24:BA:1778:U:C5'	2.54	0.41
24:BA:1854:A:H2'	24:BA:1855:G:O4'	2.20	0.41
24:BA:1889:A:H2'	24:BA:1890:A:H8	1.77	0.41
24:BA:1903:G:C5	24:BA:1904:G:N7	2.88	0.41
24:BA:1913:A:N3	24:BA:1913:A:C2'	2.84	0.41
24:BA:1946:U:O2'	24:BA:1947:C:O5'	2.27	0.41
24:BA:1967:C:N3	24:BA:1968:G:N3	2.68	0.41
24:BA:1900:A:C2	24:BA:1970:A:N6	2.89	0.41
24:BA:1995:U:C5	24:BA:1996:C:H5	2.33	0.41
24:BA:199:A:C2	24:BA:2433:A:C4	3.07	0.41
24:BA:202:U:H2'	24:BA:203:C:N1	2.36	0.41
24:BA:2056:G:C2'	24:BA:2056:G:N3	2.79	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2075:U:C2'	24:BA:2076:U:H5''	2.40	0.41
24:BA:2082:A:H2'	24:BA:2083:G:C8	2.54	0.41
24:BA:2093:G:C1'	32:BK:29:TYR:CD2	3.03	0.41
24:BA:2285:C:H4'	24:BA:2288:A:C6	2.55	0.41
24:BA:2320:A:C2	24:BA:2334:G:OP1	2.74	0.41
24:BA:222:A:N6	24:BA:232:G:N3	2.69	0.41
24:BA:2392:A:C2'	24:BA:2393:A:H5'	2.51	0.41
24:BA:2392:A:N1	24:BA:2424:C:O2	2.53	0.41
24:BA:247:G:C6	54:B7:11:LYS:NZ	2.87	0.41
24:BA:2491:U:C5	24:BA:2492:U:O5'	2.73	0.41
24:BA:2505:G:C8	24:BA:2505:G:C3'	3.03	0.41
24:BA:2527:C:P	24:BA:2527:C:H3'	2.59	0.41
24:BA:2533:A:OP1	24:BA:2665:A:H4'	2.21	0.41
24:BA:2545:G:HO2'	24:BA:2565:A:N6	2.17	0.41
24:BA:2510:C:N4	24:BA:2575:C:N3	2.68	0.41
24:BA:2627:G:O2'	24:BA:2628:C:H5'	2.20	0.41
24:BA:2631:G:C5	24:BA:2632:A:C8	3.08	0.41
24:BA:266:G:H2'	24:BA:267:C:O5'	2.21	0.41
24:BA:2688:U:HO2'	24:BA:2689:U:P	2.41	0.41
24:BA:2729:G:H2'	24:BA:2730:C:O4'	2.20	0.41
24:BA:2784:C:O2'	28:BE:36:ARG:NH2	2.53	0.41
24:BA:2812:G:C6	24:BA:2813:A:C6	3.08	0.41
24:BA:2822:G:C8	24:BA:2822:G:OP2	2.73	0.41
24:BA:2847:U:C6	24:BA:2848:G:C8	3.09	0.41
24:BA:2899:G:H2'	24:BA:2900:A:H8	1.84	0.41
24:BA:292:C:C3'	24:BA:293:U:C2	3.02	0.41
24:BA:357:A:C5	24:BA:358:U:C5	3.08	0.41
24:BA:412:A:H2'	24:BA:413:C:H5'	2.01	0.41
24:BA:573:G:C3'	24:BA:574:C:H5''	2.51	0.41
24:BA:577:G:C6	24:BA:578:A:C5	3.09	0.41
24:BA:598:G:O2'	36:BO:14:LYS:CE	2.67	0.41
24:BA:724:U:O2	24:BA:725:G:O4'	2.38	0.41
24:BA:730:C:O5'	24:BA:761:A:OP1	2.38	0.41
24:BA:820:A:C2'	24:BA:821:A:C5'	2.86	0.41
24:BA:849:A:H3'	24:BA:850:C:H6	1.85	0.41
24:BA:860:U:H6	24:BA:2267:A:C5'	2.33	0.41
24:BA:885:C:N4	24:BA:889:C:C1'	2.80	0.41
24:BA:914:C:H5	24:BA:915:C:H5	1.64	0.41
24:BA:942:G:O3'	36:BO:32:THR:CA	2.68	0.41
24:BA:954:G:C6	24:BA:964:C:N3	2.87	0.41
25:BB:65:C:C4	25:BB:108:C:C5	3.09	0.41
25:BB:45:A:N6	25:BB:46:A:C2	2.88	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:46:A:O2'	25:BB:47:C:C5'	2.68	0.41
25:BB:6:C:N3	25:BB:115:G:N2	2.69	0.41
25:BB:85:G:N1	25:BB:86:G:C5	2.88	0.41
27:BD:134:ARG:HA	27:BD:168:ARG:NH2	2.34	0.41
27:BD:161:THR:N	27:BD:196:VAL:CG2	2.83	0.41
27:BD:212:SER:O	27:BD:215:LEU:HB2	2.20	0.41
27:BD:85:ASP:OD2	27:BD:87:ASN:ND2	2.53	0.41
28:BE:119:ARG:CD	28:BE:156:MET:N	2.83	0.41
28:BE:61:ARG:CB	28:BE:62:PRO:CD	2.99	0.41
28:BE:97:LYS:CG	28:BE:100:GLU:CD	2.87	0.41
29:BF:132:VAL:HG22	29:BF:135:LYS:HB3	2.02	0.41
29:BF:149:ASP:HA	29:BF:172:TRP:NE1	2.36	0.41
29:BF:39:TRP:HZ3	29:BF:43:LYS:HB2	1.86	0.41
29:BF:78:ILE:HD13	29:BF:83:PHE:HZ	1.85	0.41
30:BG:110:ALA:CB	30:BG:139:LEU:HD11	2.51	0.41
30:BG:176:LEU:C	30:BG:176:LEU:HD13	2.40	0.41
30:BG:44:GLY:CA	30:BG:72:ARG:CB	2.97	0.41
30:BG:86:MET:H	30:BG:87:PRO:HD2	1.81	0.41
31:BH:167:GLU:C	31:BH:169:VAL:N	2.74	0.41
31:BH:25:LYS:HZ3	31:BH:27:LYS:NZ	2.17	0.41
31:BH:7:LEU:HB3	31:BH:65:HIS:CD2	2.55	0.41
32:BK:40:THR:HG22	32:BK:41:GLU:H	1.84	0.41
33:BL:37:PHE:HE2	33:BL:65:PHE:CA	2.32	0.41
34:BM:103:VAL:HG22	34:BM:104:LYS:CE	2.49	0.41
34:BM:21:LYS:CB	34:BM:26:LEU:HD22	2.50	0.41
34:BM:43:THR:O	34:BM:44:PRO:C	2.58	0.41
34:BM:22:THR:CG2	34:BM:61:ARG:CZ	2.98	0.41
35:BN:103:ALA:CB	35:BN:107:ARG:CZ	2.98	0.41
35:BN:14:THR:OG1	35:BN:16:ALA:C	2.58	0.41
35:BN:85:VAL:CG1	35:BN:93:PRO:HB3	2.47	0.41
29:BF:31:HIS:CG	36:BO:14:LYS:HZ2	2.38	0.41
37:BP:130:LYS:O	37:BP:131:ILE:HG13	2.21	0.41
24:BA:958:U:C6	37:BP:41:TRP:HH2	2.39	0.41
37:BP:79:LEU:O	37:BP:80:GLU:HG3	2.20	0.41
37:BP:88:GLY:O	37:BP:89:ASN:HB2	2.20	0.41
37:BP:8:LYS:NZ	37:BP:11:LYS:HZ3	2.16	0.41
24:BA:2723:C:O3'	38:BQ:2:ARG:N	2.53	0.41
39:BR:14:VAL:CG1	39:BR:15:ARG:N	2.64	0.41
39:BR:36:TYR:CD1	39:BR:37:ALA:N	2.89	0.41
39:BR:95:HIS:C	39:BR:99:LYS:HB2	2.40	0.41
40:BS:33:LYS:HB2	40:BS:45:PHE:CD1	2.56	0.41
41:BT:61:TRP:O	41:BT:64:ARG:N	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BT:62:ILE:HG22	41:BT:63:VAL:HG23	2.03	0.41
42:BU:12:TYR:HE1	42:BU:14:VAL:CB	2.30	0.41
42:BU:31:ALA:O	42:BU:32:THR:C	2.59	0.41
43:BV:88:ARG:O	43:BV:89:ALA:CB	2.69	0.41
44:BW:5:TYR:O	44:BW:7:VAL:HG12	2.19	0.41
44:BW:47:PHE:CZ	44:BW:92:LEU:HD11	2.45	0.41
45:BX:19:LYS:NZ	45:BX:39:VAL:HG12	2.36	0.41
46:BY:118:GLN:CD	46:BY:118:GLN:C	2.79	0.41
25:BB:103:U:H4'	46:BY:97:GLU:OE2	2.20	0.41
47:BZ:21:LEU:HD11	47:BZ:40:GLN:N	2.36	0.41
47:BZ:20:ARG:HB3	47:BZ:24:LYS:HZ1	1.85	0.41
24:BA:2169:A:N1	24:BA:2170:A:C6	2.88	0.41
26:BC:120:MET:HE1	26:BC:145:VAL:HG22	2.02	0.41
26:BC:68:LEU:CD2	26:BC:156:ILE:O	2.67	0.41
26:BC:163:PHE:HE1	26:BC:196:LEU:N	2.19	0.41
26:BC:201:PRO:C	26:BC:203:GLY:H	2.22	0.41
26:BC:41:VAL:CG1	26:BC:216:THR:HG22	2.47	0.41
26:BC:36:LYS:HA	26:BC:36:LYS:HD2	1.85	0.41
26:BC:43:VAL:O	26:BC:44:HIS:ND1	2.53	0.41
26:BC:59:ARG:NH2	26:BC:164:ARG:NH1	2.69	0.41
1:AA:131:C:H2'	1:AA:131:C:O2	2.19	0.41
2:A1:21:G:C2'	2:A1:22:C:O4'	2.69	0.41
3:AB:67:C:O2	3:AB:67:C:C2'	2.67	0.41
2:A1:15:U:O5'	2:A1:15:U:H6	2.04	0.41
2:A1:35:U:P	2:A1:35:U:H6	2.43	0.41
1:AA:993:G:C2	1:AA:1046:A:C2	3.08	0.41
1:AA:1181:G:O2'	1:AA:1182:G:H5'	2.20	0.41
1:AA:1202:G:O2'	1:AA:1203:C:O5'	2.38	0.41
1:AA:1301:U:C5	1:AA:1303:C:C5	3.09	0.41
1:AA:1363:A:H4'	1:AA:1364:U:O5'	2.21	0.41
1:AA:149:A:C6	1:AA:150:C:N4	2.88	0.41
1:AA:103:C:C1'	1:AA:151:A:C2	3.01	0.41
1:AA:815:A:N6	1:AA:1529:G:C4	2.89	0.41
1:AA:20:U:O2'	1:AA:21:G:C5'	2.65	0.41
1:AA:248:C:O4'	1:AA:282:A:H2	2.03	0.41
1:AA:118:U:C4	1:AA:288:A:H2'	2.52	0.41
1:AA:319:G:C2'	1:AA:320:C:C5'	2.98	0.41
1:AA:134:A:C5	1:AA:325:A:C2	3.09	0.41
1:AA:449:C:N1	1:AA:450:G:H1'	2.27	0.41
1:AA:46:G:C4	1:AA:396:G:N1	2.88	0.41
1:AA:448:A:C5	1:AA:487:A:C2	3.08	0.41
1:AA:50:A:N1	1:AA:360:A:O2'	2.31	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:509:A:N7	1:AA:510:A:N6	2.68	0.41
1:AA:558:G:H5''	1:AA:559:A:C5'	2.51	0.41
1:AA:63:C:N3	1:AA:105:G:C6	2.88	0.41
1:AA:690:G:C2'	1:AA:691:G:O5'	2.69	0.41
1:AA:721:G:O2'	1:AA:722:A:C2	2.63	0.41
1:AA:723:U:H6	2:A1:30:U:C4'	2.34	0.41
1:AA:667:G:C2	1:AA:740:U:C2	3.09	0.41
1:AA:833:U:H2'	1:AA:834:C:H6	1.85	0.41
1:AA:834:C:O2'	1:AA:835:U:C4'	2.69	0.41
1:AA:838:G:N2	1:AA:849:C:C2	2.88	0.41
1:AA:869:G:H5''	1:AA:870:U:OP1	2.21	0.41
1:AA:986:A:H2'	1:AA:987:G:C8	2.56	0.41
3:AC:6:G:C4	3:AC:7:A:N7	2.88	0.41
3:AD:5:G:H2'	3:AD:5:G:N3	2.36	0.41
3:AD:76:A:OP1	24:BA:2421:G:N2	2.53	0.41
4:AE:158:LEU:O	4:AE:160:ASP:OD2	2.38	0.41
4:AE:162:ILE:CD1	4:AE:162:ILE:N	2.80	0.41
4:AE:201:ILE:H	4:AE:201:ILE:HD12	1.86	0.41
4:AE:42:ILE:HD12	4:AE:203:GLY:N	2.36	0.41
4:AE:20:GLU:OE2	4:AE:205:ASP:OD2	2.39	0.41
4:AE:36:ARG:NE	4:AE:36:ARG:HA	2.35	0.41
4:AE:59:GLU:N	4:AE:221:LEU:HD11	2.36	0.41
5:AF:72:LYS:O	5:AF:76:VAL:CB	2.68	0.41
6:AG:63:LYS:CD	6:AG:63:LYS:H	2.32	0.41
7:AH:55:VAL:O	7:AH:56:GLN:C	2.56	0.41
8:AI:65:VAL:HG23	8:AI:66:GLU:C	2.40	0.41
9:AJ:69:VAL:HA	9:AJ:135:VAL:HG13	2.02	0.41
10:AK:39:LEU:C	10:AK:39:LEU:CD1	2.88	0.41
10:AK:49:GLU:OE1	10:AK:49:GLU:C	2.59	0.41
11:AL:118:LYS:HA	11:AL:118:LYS:HD3	1.79	0.41
11:AL:50:LEU:CD2	11:AL:56:LEU:HB2	2.51	0.41
13:AN:22:HIS:HA	13:AN:85:ARG:O	2.21	0.41
14:AO:46:LYS:CE	14:AO:47:LYS:NZ	2.75	0.41
14:AO:6:THR:CB	14:AO:9:GLN:OE1	2.69	0.41
15:AP:14:ARG:NE	15:AP:44:ARG:HH11	2.19	0.41
15:AP:69:GLU:OE1	15:AP:69:GLU:C	2.58	0.41
5:AF:6:HIS:CB	16:AQ:49:HIS:CE1	3.01	0.41
17:AR:79:ARG:CZ	17:AR:79:ARG:HB2	2.51	0.41
18:AS:34:GLU:OE1	18:AS:36:ILE:HG23	2.20	0.41
18:AS:35:LYS:NZ	18:AS:37:GLY:CA	2.83	0.41
1:AA:273:A:C1'	19:AT:16:GLN:OE1	2.66	0.41
22:AW:64:ASP:C	22:AW:66:ALA:N	2.71	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:B1:36:ILE:O	48:B1:37:GLY:C	2.59	0.41
49:B2:3:ARG:O	49:B2:59:VAL:O	2.39	0.41
50:B3:17:GLY:CA	50:B3:33:VAL:HG12	2.50	0.41
50:B3:55:ARG:HB3	50:B3:56:VAL:H	1.57	0.41
50:B3:60:GLN:H	50:B3:60:GLN:HG2	1.75	0.41
51:B4:20:ARG:C	51:B4:23:HIS:HB2	2.33	0.41
51:B4:55:ARG:O	51:B4:57:VAL:HG13	2.21	0.41
52:B5:19:ARG:O	52:B5:20:ASN:CB	2.68	0.41
52:B5:19:ARG:O	52:B5:20:ASN:CG	2.59	0.41
52:B5:51:GLU:O	52:B5:52:VAL:C	2.59	0.41
55:B8:9:ARG:CZ	55:B8:16:VAL:HB	2.50	0.41
24:BA:1022:G:N7	34:BM:65:LYS:CE	2.78	0.41
24:BA:1056:G:H5'	24:BA:1057:A:OP1	2.20	0.41
24:BA:1066:U:O2'	24:BA:1068:G:C8	2.60	0.41
24:BA:1083:U:H1'	24:BA:1085:A:C6	2.56	0.41
24:BA:1260:G:C2	24:BA:1261:C:C6	3.09	0.41
24:BA:1287:A:N3	24:BA:1287:A:C2'	2.82	0.41
24:BA:1314:C:N3	24:BA:1315:C:C4	2.88	0.41
24:BA:149:A:C8	24:BA:149:A:C3'	2.98	0.41
24:BA:1519:G:H3'	24:BA:1520:U:O4'	2.18	0.41
24:BA:1605:C:C5	24:BA:1606:G:C5	3.09	0.41
24:BA:1670:C:C3'	24:BA:1671:U:H5'	2.51	0.41
24:BA:1718:G:C2'	24:BA:1725:G:H8	2.05	0.41
24:BA:180:G:N2	24:BA:214:G:O6	2.53	0.41
24:BA:1808:U:C2	24:BA:1810:A:H2	2.38	0.41
24:BA:1946:U:C2'	24:BA:1947:C:O5'	2.68	0.41
24:BA:198:C:C6	24:BA:198:C:O5'	2.74	0.41
24:BA:1993:U:C6	24:BA:1994:C:C5	2.93	0.41
24:BA:2003:G:O6	24:BA:2004:G:C6	2.74	0.41
24:BA:2027:G:C4	24:BA:2028:U:C6	3.08	0.41
24:BA:571:A:C6	24:BA:2030:A:N1	2.89	0.41
24:BA:2041:U:H6	24:BA:2041:U:OP2	2.03	0.41
24:BA:2056:G:N2	24:BA:2057:A:C4	2.88	0.41
24:BA:2088:G:O2'	24:BA:2089:U:H5'	2.21	0.41
24:BA:2199:A:C4	24:BA:2205:C:C6	3.09	0.41
24:BA:2249:U:O2'	24:BA:2275:C:C2	2.73	0.41
24:BA:225:A:N6	24:BA:226:G:C6	2.89	0.41
24:BA:2469:A:N7	24:BA:2470:G:C8	2.88	0.41
24:BA:2511:U:O4	24:BA:2512:C:N4	2.54	0.41
24:BA:2525:G:C2	24:BA:2539:C:C4	3.07	0.41
24:BA:2615:U:H6	24:BA:2615:U:H5'	1.84	0.41
24:BA:2842:G:C2	24:BA:2843:G:H1'	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:331:A:C4	24:BA:1209:G:N1	2.89	0.41
24:BA:447:A:C1'	24:BA:449:A:N6	2.70	0.41
24:BA:452:G:N2	24:BA:458:G:H21	2.19	0.41
24:BA:511:U:C5	24:BA:512:G:H1'	2.55	0.41
24:BA:521:G:C2	24:BA:522:G:C8	3.09	0.41
24:BA:52:A:C5	24:BA:118:A:C2	3.08	0.41
24:BA:533:G:C5	24:BA:534:U:C4	3.08	0.41
24:BA:558:G:N3	24:BA:559:G:C8	2.89	0.41
24:BA:663:G:C4'	36:BO:18:ARG:NE	2.69	0.41
24:BA:703:U:O4	24:BA:730:C:N4	2.54	0.41
24:BA:729:G:C5	24:BA:730:C:H1'	2.54	0.41
24:BA:733:G:C8	24:BA:761:A:C6	3.08	0.41
24:BA:757:U:H2'	24:BA:758:C:O5'	2.20	0.41
24:BA:196:A:N6	24:BA:831:G:O2'	2.53	0.41
24:BA:84:A:O3'	24:BA:85:G:O4'	2.38	0.41
24:BA:864:G:C2'	24:BA:865:C:O4'	2.64	0.41
24:BA:928:G:C8	24:BA:929:G:C8	3.09	0.41
24:BA:987:G:C5	24:BA:988:A:C8	3.08	0.41
24:BA:994:C:C5'	24:BA:995:C:OP1	2.68	0.41
24:BA:996:A:C5	24:BA:1160:G:C2	3.08	0.41
25:BB:46:A:C2'	25:BB:47:C:O5'	2.68	0.41
25:BB:73:A:C5	25:BB:104:A:N3	2.88	0.41
24:BA:2217:G:C1'	27:BD:150:LYS:HZ2	2.30	0.41
27:BD:159:ALA:CB	27:BD:202:LYS:NZ	2.80	0.41
24:BA:1901:A:O2'	27:BD:244:ARG:HD2	2.20	0.41
27:BD:232:PRO:CG	27:BD:246:PRO:O	2.68	0.41
24:BA:1798:U:O5'	27:BD:257:LEU:HD12	2.19	0.41
27:BD:68:LYS:HG2	27:BD:152:GLY:HA2	2.03	0.41
27:BD:5:LYS:O	27:BD:6:PHE:O	2.39	0.41
24:BA:1656:C:C5'	28:BE:136:ARG:CZ	2.98	0.41
28:BE:154:LYS:CD	28:BE:154:LYS:O	2.69	0.41
28:BE:13:ARG:NE	28:BE:21:VAL:CA	2.83	0.41
28:BE:5:LEU:O	28:BE:195:LEU:HD22	2.21	0.41
28:BE:8:LYS:CE	28:BE:8:LYS:C	2.88	0.41
29:BF:136:THR:O	29:BF:139:PHE:N	2.53	0.41
29:BF:199:TRP:O	29:BF:203:GLN:OE1	2.39	0.41
30:BG:11:TYR:O	30:BG:15:VAL:CG2	2.67	0.41
30:BG:26:GLN:HE21	30:BG:31:VAL:HG21	1.82	0.41
30:BG:55:LYS:CE	30:BG:152:LEU:HD11	2.50	0.41
30:BG:55:LYS:HE2	30:BG:148:MET:HB3	2.02	0.41
30:BG:72:ARG:HA	30:BG:88:ILE:CD1	2.51	0.41
31:BH:121:ILE:HD12	31:BH:144:VAL:HG11	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:BH:155:SER:HB2	31:BH:159:GLU:HA	2.01	0.41
31:BH:76:VAL:O	31:BH:79:VAL:CG2	2.68	0.41
32:BK:17:GLN:O	32:BK:18:VAL:HG23	2.21	0.41
34:BM:10:GLU:HG2	34:BM:12:ARG:HH22	1.85	0.41
34:BM:74:ARG:HB2	34:BM:82:LEU:HA	2.03	0.41
34:BM:97:ARG:HA	34:BM:100:GLU:CB	2.51	0.41
36:BO:15:ARG:HA	36:BO:15:ARG:NE	2.35	0.41
36:BO:18:ARG:C	36:BO:20:GLY:N	2.74	0.41
36:BO:89:ALA:O	36:BO:124:LYS:O	2.38	0.41
37:BP:45:GLN:OE1	37:BP:45:GLN:N	2.53	0.41
37:BP:50:ALA:O	37:BP:54:MET:HG2	2.20	0.41
38:BQ:109:ALA:O	38:BQ:111:LEU:HG	2.20	0.41
38:BQ:116:LEU:H	38:BQ:116:LEU:CD2	2.25	0.41
38:BQ:115:GLU:HG2	38:BQ:116:LEU:O	2.20	0.41
38:BQ:57:ARG:NE	38:BQ:62:ALA:CB	2.68	0.41
39:BR:26:LEU:HD11	39:BR:37:ALA:CB	2.44	0.41
39:BR:28:VAL:CG2	39:BR:29:PHE:N	2.74	0.41
39:BR:78:LEU:CD1	39:BR:79:ALA:N	2.70	0.41
39:BR:96:GLY:O	39:BR:98:VAL:N	2.54	0.41
40:BS:104:ASN:C	40:BS:108:ARG:HH12	2.24	0.41
40:BS:65:LYS:CE	40:BS:75:ILE:CD1	2.98	0.41
41:BT:32:PHE:HB2	41:BT:33:ARG:H	1.49	0.41
41:BT:3:ARG:O	41:BT:4:ALA:CB	2.67	0.41
43:BV:5:ALA:CB	43:BV:105:VAL:O	2.55	0.41
46:BY:150:LEU:O	46:BY:171:ILE:CG2	2.68	0.41
46:BY:23:LYS:HE3	46:BY:38:TYR:CB	2.51	0.41
24:BA:2331:G:H4'	47:BZ:42:GLY:C	2.41	0.41
3:AD:48:C:N4	3:AD:59:U:C2	2.88	0.41
24:BA:2175:C:O2	24:BA:2175:C:C2'	2.66	0.41
26:BC:181:PRO:HB2	26:BC:184:LYS:HG3	2.02	0.41
26:BC:223:ARG:CB	26:BC:223:ARG:NH1	2.84	0.41
14:AO:126:LYS:O	14:AO:128:ALA:N	2.54	0.41
1:AA:1165:C:H2'	1:AA:1166:G:C5'	2.50	0.41
24:BA:1562:A:H2'	24:BA:1563:G:H8	1.85	0.41
1:AA:1536:C:C2	1:AA:1537:U:C5	3.08	0.41
1:AA:1537:U:N3	1:AA:1538:C:C5	2.89	0.41
1:AA:1001:G:C8	1:AA:1001:G:C3'	3.04	0.41
1:AA:1032(B):G:C2	1:AA:1033:G:C4	3.08	0.41
1:AA:1050:G:H2'	1:AA:1050:G:N3	2.35	0.41
1:AA:1081:G:OP1	7:AH:18:ARG:CA	2.69	0.41
1:AA:1144:G:N1	1:AA:1145:C:C2	2.89	0.41
1:AA:1157:A:N3	1:AA:1157:A:C2'	2.80	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1284:C:C6	1:AA:1285:A:C8	3.09	0.41
1:AA:1288:A:N3	1:AA:1352:C:O2'	2.49	0.41
1:AA:1291:G:C2	1:AA:1292:U:C2	3.07	0.41
1:AA:132:C:N3	1:AA:231:G:N2	2.67	0.41
1:AA:1331:G:O2'	1:AA:1332:A:P	2.78	0.41
1:AA:1234:C:C4'	1:AA:1364:U:O2'	2.68	0.41
1:AA:1387:G:O2'	1:AA:1388:C:H5'	2.21	0.41
1:AA:1405:G:H4'	1:AA:1519:A:C5'	2.50	0.41
1:AA:173:U:C5'	1:AA:197:A:C2'	2.99	0.41
1:AA:354:G:C2	1:AA:355:C:C4	3.08	0.41
1:AA:429:U:O2	1:AA:431:A:N7	2.54	0.41
1:AA:458:C:C4	1:AA:464:G:C6	3.08	0.41
1:AA:468:A:H3'	1:AA:474:G:H8	1.85	0.41
1:AA:493:G:HO2'	1:AA:494:U:H6	1.64	0.41
1:AA:518:C:O2'	14:AO:50:SER:CB	2.66	0.41
1:AA:548:G:C6	1:AA:549:C:N4	2.89	0.41
1:AA:579:G:O4'	1:AA:728:A:H1'	2.20	0.41
1:AA:624:C:H4'	18:AS:10:GLY:C	2.41	0.41
1:AA:685:G:H4'	13:AN:40:ILE:HA	2.02	0.41
1:AA:698:G:C6	1:AA:699:C:N4	2.89	0.41
1:AA:725:G:H2'	1:AA:726:C:C6	2.56	0.41
1:AA:760:G:H5'	1:AA:761:G:OP2	2.20	0.41
1:AA:791:G:N7	1:AA:792:A:N7	2.69	0.41
1:AA:866:C:H5''	1:AA:867:G:C8	2.56	0.41
1:AA:937:A:N3	1:AA:1379:G:N1	2.68	0.41
1:AA:942:G:N2	11:AL:124:GLN:CD	2.74	0.41
1:AA:951:G:C2'	1:AA:970:C:O2'	2.68	0.41
1:AA:952:U:C2'	1:AA:953:G:H5'	2.50	0.41
1:AA:97:U:H6	1:AA:97:U:O5'	2.04	0.41
3:AC:19:G:H5''	3:AC:20:U:C5	2.56	0.41
4:AE:144:ARG:O	4:AE:147:LYS:N	2.54	0.41
4:AE:188:ALA:O	4:AE:205:ASP:HB3	2.21	0.41
4:AE:25:ASN:HD21	4:AE:27:LYS:HB2	1.85	0.41
4:AE:39:ILE:HG12	4:AE:40:HIS:O	2.21	0.41
4:AE:69:LEU:HD13	4:AE:70:PHE:H	1.84	0.41
4:AE:85:ALA:HB3	4:AE:92:TYR:CD1	2.56	0.41
5:AF:121:ALA:O	5:AF:122:GLU:C	2.57	0.41
5:AF:124:ILE:CD1	5:AF:130:VAL:CG1	2.97	0.41
5:AF:15:THR:HG21	5:AF:181:ASN:H	1.85	0.41
5:AF:172:ARG:HG2	5:AF:172:ARG:HH11	1.86	0.41
5:AF:191:THR:C	5:AF:193:TYR:N	2.73	0.41
5:AF:33:LEU:HD21	16:AQ:52:GLN:O	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AG:11:LEU:O	6:AG:12:CYS:C	2.59	0.41
6:AG:193:ASP:OD2	6:AG:194:LEU:CD2	2.67	0.41
6:AG:200:GLU:C	6:AG:204:ILE:HD12	2.38	0.41
6:AG:62:GLN:HA	6:AG:62:GLN:NE2	2.36	0.41
7:AH:145:LYS:CA	7:AH:148:VAL:HG23	2.47	0.41
7:AH:78:HIS:ND1	10:AK:104:ARG:CD	2.82	0.41
8:AI:59:TYR:CE2	8:AI:61:LEU:HD21	2.55	0.41
9:AJ:118:VAL:HG12	9:AJ:122:HIS:CE1	2.55	0.41
10:AK:104:ARG:HE	10:AK:138:TRP:HZ3	1.63	0.41
10:AK:18:ARG:H	10:AK:18:ARG:NE	2.18	0.41
10:AK:23:SER:HA	10:AK:62:TYR:CD1	2.55	0.41
10:AK:45:ILE:HD11	10:AK:48:TYR:CB	2.37	0.41
11:AL:31:GLN:HG2	11:AL:35:GLU:OE1	2.21	0.41
9:AJ:16:LEU:O	11:AL:41:VAL:CG1	2.69	0.41
11:AL:97:LYS:HZ2	11:AL:102:LEU:CD2	2.31	0.41
13:AN:42:TRP:C	13:AN:42:TRP:HE3	2.24	0.41
13:AN:50:TYR:CE2	13:AN:54:ARG:HB3	2.56	0.41
14:AO:117:ARG:O	14:AO:121:GLY:CA	2.68	0.41
14:AO:119:LYS:HB2	14:AO:119:LYS:HE3	1.67	0.41
14:AO:32:PHE:HB3	14:AO:86:ARG:HA	2.02	0.41
15:AP:69:GLU:O	15:AP:72:ALA:N	2.53	0.41
17:AR:34:LEU:HD12	17:AR:35:ARG:CA	2.50	0.41
17:AR:40:SER:O	17:AR:41:GLU:C	2.58	0.41
19:AT:14:LYS:O	19:AT:15:MET:O	2.39	0.41
19:AT:5:VAL:O	19:AT:6:LEU:CB	2.68	0.41
1:AA:255:G:P	19:AT:69:LYS:NZ	2.94	0.41
20:AU:40:LEU:O	20:AU:43:PHE:CD1	2.63	0.41
1:AA:192:U:C4'	22:AW:103:GLY:N	2.83	0.41
23:AX:5:ASP:O	23:AX:6:ARG:HG2	2.20	0.41
24:BA:74:A:C2	48:B1:46:ARG:NE	2.88	0.41
49:B2:9:VAL:CG2	49:B2:53:LEU:C	2.71	0.41
50:B3:22:ILE:N	50:B3:22:ILE:CD1	2.84	0.41
50:B3:28:LYS:CE	50:B3:29:PRO:HD2	2.40	0.41
51:B4:10:LYS:CD	51:B4:15:ARG:CZ	2.99	0.41
54:B7:4:MET:O	54:B7:5:LYS:O	2.39	0.41
55:B8:7:VAL:CG2	55:B8:36:GLN:NE2	2.77	0.41
24:BA:1047:G:C6	24:BA:1110:G:N7	2.89	0.41
24:BA:1057:A:C2	24:BA:1058:G:N7	2.89	0.41
24:BA:1102:C:C2	24:BA:1103:A:N7	2.88	0.41
24:BA:1107:G:O2'	24:BA:1108:U:H5'	2.19	0.41
24:BA:1141:U:HO2'	24:BA:1142:U:P	2.44	0.41
24:BA:1183:G:H4'	24:BA:1184:G:O4'	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1298:C:O2'	24:BA:1302:A:N7	2.54	0.41
24:BA:1342:A:N7	24:BA:1601:G:O6	2.53	0.41
24:BA:1355:G:N2	24:BA:1377:G:C1'	2.75	0.41
24:BA:1398:C:O3'	44:BW:25:LYS:NZ	2.43	0.41
24:BA:1491:G:N1	24:BA:1500:G:C2	2.89	0.41
24:BA:150:C:N3	24:BA:176:G:N2	2.59	0.41
24:BA:1479:G:N2	24:BA:1515:C:C4	2.87	0.41
24:BA:1517:G:C2	24:BA:1518:C:C2	3.08	0.41
24:BA:1649:G:C6	24:BA:1650:G:N7	2.89	0.41
24:BA:1679:U:O4	24:BA:1764:G:H5''	2.20	0.41
24:BA:1710:C:H1'	24:BA:2858:C:N4	2.33	0.41
24:BA:1807:G:H21	24:BA:1809:A:H4'	1.86	0.41
24:BA:1850:G:H2'	24:BA:1851:U:O4'	2.19	0.41
24:BA:1943:U:HO2'	24:BA:1944:U:P	2.39	0.41
24:BA:194:G:H8	24:BA:194:G:O5'	2.03	0.41
24:BA:194:G:C6	24:BA:195:A:C6	3.08	0.41
24:BA:1970:A:C6	24:BA:1972:A:N7	2.89	0.41
24:BA:205:G:O2'	24:BA:206:U:OP2	2.23	0.41
24:BA:2072:G:C2	24:BA:2073:C:C5	3.09	0.41
24:BA:2218:G:C6	24:BA:2219:G:C5	3.09	0.41
24:BA:379:G:H4'	24:BA:2232:U:H5''	2.02	0.41
24:BA:222:A:C8	24:BA:224:G:C8	3.09	0.41
24:BA:2286:A:C5'	24:BA:2287:A:H1'	2.49	0.41
24:BA:235:U:O5'	24:BA:235:U:H6	2.03	0.41
24:BA:2459:A:OP2	24:BA:2460:U:H5	2.01	0.41
24:BA:2469:A:OP2	24:BA:2476:A:C2	2.74	0.41
24:BA:2474:C:H2'	24:BA:2475:C:O5'	2.20	0.41
24:BA:247:G:N1	54:B7:11:LYS:NZ	2.68	0.41
24:BA:2482:G:H2'	24:BA:2483:C:C5'	2.48	0.41
24:BA:2490:G:HO2'	24:BA:2491:U:P	2.44	0.41
24:BA:2499:C:O2	24:BA:2499:C:C2'	2.67	0.41
24:BA:1128:A:C6	24:BA:2518:A:N6	2.76	0.41
24:BA:1953:A:H1'	24:BA:2560:C:O4'	2.21	0.41
24:BA:2595:G:N2	24:BA:2599:G:O6	2.54	0.41
24:BA:2690:C:N4	38:BQ:14:SER:OG	2.53	0.41
24:BA:2691:C:O4'	24:BA:2872:G:C5	2.74	0.41
24:BA:2692:C:C2	24:BA:2693:A:C8	3.09	0.41
24:BA:2706:G:C2	24:BA:2707:G:C4	3.08	0.41
24:BA:270(S):G:H2'	24:BA:270(T):G:H8	1.86	0.41
24:BA:271(C):U:O2'	24:BA:271:G:H4'	2.20	0.41
24:BA:2841:C:C2'	24:BA:2842:G:C8	2.87	0.41
24:BA:295:G:OP1	24:BA:338:G:O6	2.38	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:416:C:C5	24:BA:417:C:C5	3.09	0.41
24:BA:454:A:O2'	24:BA:455:C:C2	2.68	0.41
24:BA:454:A:O3'	24:BA:455:C:O4'	2.38	0.41
24:BA:447:A:C4	24:BA:473:G:C8	3.08	0.41
24:BA:542:C:C2	24:BA:543:C:C6	3.08	0.41
24:BA:592:G:C6	24:BA:593:G:C5	3.08	0.41
24:BA:598:G:H21	24:BA:599:G:H1'	1.85	0.41
24:BA:601:C:H2'	24:BA:602:G:H5'	2.02	0.41
24:BA:671:C:C4	24:BA:672:C:N4	2.87	0.41
24:BA:725:G:O6	24:BA:726:G:N2	2.50	0.41
24:BA:733:G:H8	24:BA:733:G:OP2	2.04	0.41
24:BA:740:U:C1'	24:BA:1784:A:C5	3.04	0.41
24:BA:743:G:C6	24:BA:744:G:C6	3.09	0.41
24:BA:771:G:H2'	24:BA:772:C:H6	1.83	0.41
25:BB:77:U:C5	25:BB:98:G:N2	2.88	0.41
27:BD:148:GLU:C	27:BD:149:PRO:O	2.59	0.41
27:BD:142:VAL:HB	27:BD:191:ALA:HB1	2.01	0.41
27:BD:270:ILE:C	27:BD:271:ILE:HG13	2.40	0.41
27:BD:59:LYS:O	27:BD:62:TYR:OH	2.38	0.41
27:BD:37:LEU:CG	27:BD:63:ARG:HA	2.49	0.41
28:BE:46:ALA:HB2	28:BE:85:ASN:OD1	2.21	0.41
29:BF:120:GLU:OE1	29:BF:120:GLU:N	2.53	0.41
29:BF:124:LEU:HG	29:BF:197:ASP:HB2	2.02	0.41
29:BF:192:LEU:CD1	29:BF:192:LEU:C	2.87	0.41
29:BF:205:ARG:O	29:BF:206:ILE:C	2.59	0.41
30:BG:152:LEU:HB2	30:BG:155:MET:CE	2.50	0.41
30:BG:39:ILE:CG1	30:BG:157:ILE:HG13	2.48	0.41
30:BG:19:LEU:CA	30:BG:22:ARG:HG2	2.51	0.41
30:BG:54:GLU:CD	30:BG:70:VAL:HG22	2.41	0.41
30:BG:77:ILE:C	30:BG:83:ARG:NE	2.73	0.41
30:BG:90:LEU:O	30:BG:90:LEU:CD1	2.68	0.41
31:BH:35:VAL:HA	31:BH:36:PRO:HD2	1.74	0.41
31:BH:5:GLY:O	31:BH:6:ARG:CB	2.69	0.41
33:BL:12:LEU:CB	33:BL:13:PRO:CD	2.97	0.41
33:BL:99:ILE:HD12	33:BL:136:VAL:CG1	2.51	0.41
34:BM:53:VAL:HG12	34:BM:130:HIS:NE2	2.36	0.41
34:BM:34:LEU:HA	34:BM:49:GLY:CA	2.50	0.41
34:BM:58:ASP:OD1	34:BM:59:LYS:HG3	2.20	0.41
35:BN:78:ARG:N	35:BN:78:ARG:CD	2.84	0.41
36:BO:46:LYS:NZ	36:BO:50:ARG:CZ	2.83	0.41
37:BP:6:ARG:CD	37:BP:7:MET:N	2.84	0.41
38:BQ:74:LYS:HD3	38:BQ:74:LYS:H	1.86	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BQ:45:ARG:CA	38:BQ:95:THR:HG21	2.50	0.41
39:BR:38:GLN:NE2	39:BR:47:THR:HG21	2.36	0.41
39:BR:67:ARG:NH2	39:BR:67:ARG:CG	2.78	0.41
39:BR:73:LEU:HA	39:BR:76:LYS:HB3	2.01	0.41
39:BR:9:ARG:HA	39:BR:12:PHE:HE2	1.80	0.41
40:BS:16:ARG:HH11	40:BS:16:ARG:HG3	1.86	0.41
40:BS:64:ARG:CD	40:BS:65:LYS:H	1.99	0.41
41:BT:108:GLU:OE2	41:BT:108:GLU:N	2.51	0.41
41:BT:40:PHE:CD2	42:BU:78:LYS:CE	3.03	0.41
24:BA:1009:A:C4'	41:BT:62:ILE:HG21	2.46	0.41
41:BT:86:ALA:O	41:BT:90:VAL:HG21	2.21	0.41
42:BU:100:ARG:NE	42:BU:100:ARG:HA	2.36	0.41
42:BU:1:MET:HB3	42:BU:15:GLU:CG	2.50	0.41
42:BU:83:ARG:CG	42:BU:84:LYS:N	2.83	0.41
44:BW:25:LYS:O	44:BW:26:TYR:CD1	2.73	0.41
44:BW:52:VAL:O	44:BW:53:LYS:O	2.37	0.41
24:BA:2261:C:N4	47:BZ:15:ASP:O	2.53	0.41
47:BZ:27:GLU:HA	47:BZ:69:PHE:CE1	2.56	0.41
3:AD:62:C:O2'	26:BC:53:ARG:CG	2.55	0.41
26:BC:21:THR:HG22	26:BC:225:ASN:ND2	2.35	0.41
26:BC:19:ILE:CD1	26:BC:223:ARG:HB3	2.19	0.41
26:BC:32:LEU:HD13	26:BC:220:PRO:HG2	2.01	0.41
26:BC:64:LEU:HD22	26:BC:188:ASN:O	2.20	0.41
26:BC:65:PRO:O	26:BC:66:HIS:CB	2.68	0.41
26:BC:66:HIS:NE2	26:BC:184:LYS:HD3	2.36	0.41
24:BA:2103:C:N3	24:BA:2104:G:N7	2.68	0.41
2:A1:44:U:N3	2:A1:45:U:C5	2.89	0.41
3:AB:72:C:N3	3:AB:73:A:N7	2.68	0.41
24:BA:491:G:H3'	24:BA:492:A:H8	1.85	0.41
1:AA:1029:G:N3	1:AA:1031:G:OP2	2.54	0.41
1:AA:1030:C:H2'	1:AA:1031:G:C8	2.55	0.41
11:AL:99:LEU:HD22	11:AL:99:LEU:H	1.86	0.41
1:AA:1065:U:C2'	1:AA:1065:U:O2	2.57	0.41
1:AA:1101:A:H1'	1:AA:1102:A:O4'	2.21	0.41
1:AA:1115:C:C4	1:AA:1116:C:C4	3.09	0.41
1:AA:1135:U:O3'	1:AA:1136:U:C6	2.70	0.41
1:AA:1157:A:C6	1:AA:1180:A:C6	3.09	0.41
1:AA:1188:A:H2'	1:AA:1189:C:C6	2.56	0.41
1:AA:1221:G:C6	1:AA:1222:G:C5	3.08	0.41
1:AA:129(A):G:HO2'	1:AA:130:A:P	2.37	0.41
1:AA:1311:G:OP2	21:AV:2:PRO:CD	2.69	0.41
1:AA:1318:A:H8	1:AA:1318:A:O5'	2.04	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1371:G:C6	1:AA:1372:U:C4	3.08	0.41
1:AA:1423:G:C6	1:AA:1424:C:C4	3.09	0.41
1:AA:1424:C:H2'	1:AA:1425:U:H6	1.85	0.41
1:AA:1425:U:O2	1:AA:1476:G:C2	2.74	0.41
1:AA:1540:U:O5'	1:AA:1540:U:C6	2.74	0.41
1:AA:217:C:C4	1:AA:218:C:C4	3.09	0.41
1:AA:323:U:C5	1:AA:324:G:C4	2.98	0.41
1:AA:380:G:H2'	1:AA:382:A:OP2	2.20	0.41
1:AA:427:U:C6	1:AA:427:U:O5'	2.64	0.41
1:AA:437:U:C5	1:AA:438:G:C5	3.09	0.41
1:AA:498:A:H4'	1:AA:500:G:C5'	2.47	0.41
1:AA:563:A:O2'	1:AA:566:G:C2'	2.68	0.41
1:AA:592:G:C6	1:AA:648:A:N6	2.89	0.41
1:AA:619:U:O2	1:AA:619:U:H2'	2.20	0.41
1:AA:681:C:O2'	1:AA:682:G:H5'	2.20	0.41
1:AA:782:A:C8	1:AA:783:C:C5	3.08	0.41
1:AA:937:A:C8	1:AA:938:A:N7	2.88	0.41
1:AA:949:A:HO2'	1:AA:1364:U:H3	1.63	0.41
1:AA:971:G:O5'	1:AA:1231:G:N2	2.53	0.41
3:AB:9:A:C2	3:AB:46:G:N2	2.89	0.41
3:AC:5:G:O2'	3:AC:6:G:C5'	2.69	0.41
3:AC:63:G:H2'	3:AC:64:A:C8	2.56	0.41
4:AE:157:ARG:CA	4:AE:158:LEU:HD23	2.50	0.41
4:AE:28:PHE:CE1	4:AE:31:TYR:CB	3.04	0.41
4:AE:46:LYS:O	4:AE:49:GLU:N	2.54	0.41
4:AE:90:MET:SD	4:AE:91:PRO:CD	3.01	0.41
5:AF:23:TYR:CE1	12:AM:10:GLY:C	2.94	0.41
5:AF:35:GLU:CD	5:AF:95:THR:HG21	2.40	0.41
6:AG:196:LEU:O	6:AG:196:LEU:CD1	2.69	0.41
6:AG:60:GLU:OE2	6:AG:202:LEU:CD1	2.67	0.41
7:AH:106:PRO:HG2	7:AH:122:GLU:OE2	2.20	0.41
7:AH:71:LEU:HG	7:AH:72:GLN:N	2.35	0.41
7:AH:82:VAL:O	7:AH:82:VAL:HG13	2.21	0.41
8:AI:82:ARG:O	8:AI:83:ASP:C	2.59	0.41
9:AJ:146:GLU:HG3	9:AJ:149:ARG:CZ	2.50	0.41
9:AJ:80:VAL:HG12	9:AJ:81:GLY:N	2.36	0.41
10:AK:14:ARG:CD	10:AK:15:ASN:ND2	2.83	0.41
10:AK:35:ILE:O	10:AK:37:ARG:N	2.53	0.41
10:AK:6:ILE:CD1	10:AK:85:ARG:NE	2.83	0.41
10:AK:6:ILE:HD12	10:AK:85:ARG:CD	2.51	0.41
11:AL:26:VAL:CG1	11:AL:63:ILE:HD13	2.51	0.41
13:AN:12:ARG:NH1	13:AN:40:ILE:HG23	2.35	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:AO:88:GLY:C	14:AO:89:ARG:O	2.59	0.41
14:AO:6:THR:OG1	14:AO:9:GLN:HB2	2.21	0.41
17:AR:36:ILE:HG22	17:AR:37:ASN:N	2.36	0.41
19:AT:10:VAL:HB	19:AT:54:GLY:H	1.85	0.41
20:AU:17:SER:CB	20:AU:54:ARG:HH12	2.32	0.41
22:AW:102:GLY:O	22:AW:104:LEU:N	2.54	0.41
49:B2:41:PRO:HG3	49:B2:44:ARG:NH1	2.36	0.41
49:B2:26:LEU:CG	49:B2:47:VAL:HG22	2.37	0.41
49:B2:52:HIS:CE1	49:B2:53:LEU:CG	3.01	0.41
50:B3:59:PHE:HE1	50:B3:60:GLN:HE21	1.68	0.41
50:B3:59:PHE:HB3	50:B3:62:ARG:NH1	2.36	0.41
51:B4:19:ARG:O	51:B4:20:ARG:C	2.58	0.41
51:B4:57:VAL:O	51:B4:58:LEU:HB3	2.20	0.41
24:BA:104:U:OP2	24:BA:105:C:C5	2.73	0.41
24:BA:1054:A:H8	24:BA:1054:A:O5'	2.03	0.41
24:BA:1058:G:C6	24:BA:1081:U:N3	2.89	0.41
24:BA:1102:C:C2'	24:BA:1102:C:O2	2.63	0.41
24:BA:1024:G:C6	24:BA:1138:G:O6	2.73	0.41
24:BA:1179:C:C2'	24:BA:1180:C:C6	3.00	0.41
24:BA:1183:G:O4'	24:BA:1183:G:N3	2.53	0.41
24:BA:10:G:N1	24:BA:11:G:C6	2.89	0.41
24:BA:121:G:O4'	24:BA:148:C:H2'	2.20	0.41
24:BA:126:A:H5''	53:B6:18:PHE:CE1	2.54	0.41
24:BA:1283:G:H22	24:BA:1286:A:C5'	2.33	0.41
24:BA:1300:U:O2	24:BA:1301:A:N6	2.54	0.41
24:BA:1342:A:O5'	24:BA:1342:A:H8	2.04	0.41
24:BA:1353:A:C6	24:BA:1378:A:C5	3.09	0.41
24:BA:1388:G:C6	24:BA:1400:G:N1	2.89	0.41
24:BA:1431:U:C4	24:BA:1432:C:C5	3.09	0.41
24:BA:1438:U:C2'	24:BA:1439:A:C5'	2.89	0.41
24:BA:1453:A:C2	24:BA:1454:U:C1'	3.04	0.41
24:BA:1423:G:H5'	24:BA:1493:C:H1'	2.02	0.41
24:BA:120:U:O2'	24:BA:149:A:O4'	2.37	0.41
24:BA:1500:G:O2'	24:BA:1501:C:C5'	2.69	0.41
24:BA:150:C:O2'	24:BA:151:C:C5'	2.67	0.41
24:BA:1529:A:C8	24:BA:1530:G:C4	3.08	0.41
24:BA:1291:C:C5'	24:BA:1535:U:O3'	2.69	0.41
24:BA:1565:C:C6	24:BA:1565:C:C3'	3.04	0.41
24:BA:1571:A:H2'	24:BA:1571:A:N3	2.35	0.41
24:BA:1689:A:C6	24:BA:1700:A:C4	3.08	0.41
24:BA:1689:A:C6	24:BA:1700:A:N3	2.89	0.41
24:BA:1789:A:H5'	24:BA:1790:C:OP2	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1889:A:C2	24:BA:1890:A:C4	3.09	0.41
24:BA:1964:G:C6	24:BA:1967:C:H5	2.38	0.41
24:BA:2015:A:OP2	24:BA:2015:A:O4'	2.38	0.41
24:BA:2225:A:O2'	24:BA:2226:C:OP2	2.29	0.41
24:BA:2075:U:O2	24:BA:2238:G:N2	2.53	0.41
24:BA:2256:G:C6	24:BA:2257:U:C4	3.08	0.41
24:BA:2255:G:C2	24:BA:2256:G:N9	2.89	0.41
24:BA:2279:G:N3	24:BA:2280:G:C8	2.88	0.41
24:BA:2335:A:C2'	24:BA:2337:G:C8	3.03	0.41
24:BA:2370:G:C4	24:BA:2371:G:C8	3.08	0.41
24:BA:2327:A:N7	24:BA:2388:A:C6	2.89	0.41
24:BA:2392:A:O2'	24:BA:2393:A:P	2.79	0.41
24:BA:2508:G:N2	24:BA:2509:G:H1'	2.35	0.41
24:BA:2705:A:C8	24:BA:2706:G:N7	2.89	0.41
24:BA:2705:A:N7	24:BA:2706:G:N7	2.68	0.41
24:BA:2710:C:C4	24:BA:2711:A:N7	2.88	0.41
24:BA:2790:A:O4'	24:BA:2893:G:C2	2.72	0.41
24:BA:2808:U:OP1	24:BA:2809:A:OP2	2.38	0.41
24:BA:2817:G:N2	24:BA:2830:G:C4	2.89	0.41
24:BA:2867:G:O3'	24:BA:2868:A:H8	2.03	0.41
24:BA:303:U:H2'	24:BA:304:G:C5'	2.50	0.41
24:BA:349:G:N3	24:BA:349:G:H2'	2.35	0.41
24:BA:468:G:C2'	24:BA:469:G:H5'	2.51	0.41
24:BA:479:A:OP2	24:BA:479:A:O4'	2.39	0.41
24:BA:535:C:H2'	24:BA:536:A:C5'	2.51	0.41
24:BA:545:G:H2'	24:BA:545:G:N3	2.36	0.41
24:BA:545:G:O5'	24:BA:545:G:C8	2.74	0.41
24:BA:572:A:N7	24:BA:573:G:N1	2.69	0.41
24:BA:578:A:H2'	24:BA:2018:G:C5'	2.29	0.41
24:BA:630:G:H2'	24:BA:631:A:O5'	2.21	0.41
24:BA:626:U:H4'	24:BA:653:A:C2	2.55	0.41
24:BA:696:G:H2'	24:BA:697:C:H6	1.86	0.41
24:BA:735:A:C3'	24:BA:735:A:C8	3.04	0.41
24:BA:736:C:N4	24:BA:737:C:N4	2.68	0.41
24:BA:763:G:H1'	24:BA:765:G:O4'	2.20	0.41
24:BA:793:A:OP2	24:BA:793:A:O4'	2.39	0.41
24:BA:844:C:OP2	24:BA:845:G:C5	2.74	0.41
24:BA:948:G:C6	24:BA:949:C:C4	3.09	0.41
24:BA:87:C:N4	24:BA:96:G:C6	2.89	0.41
25:BB:25:A:C2	25:BB:26:A:H1'	2.55	0.41
25:BB:40:U:O5'	25:BB:40:U:H6	2.04	0.41
25:BB:45:A:N3	25:BB:45:A:H2'	2.36	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:68:C:C2'	25:BB:69:G:H8	2.34	0.41
27:BD:117:VAL:HG13	27:BD:129:ASN:N	2.35	0.41
27:BD:175:LEU:CD2	27:BD:176:ARG:O	2.69	0.41
27:BD:91:ARG:HH22	27:BD:198:ASN:CG	2.24	0.41
27:BD:20:ASP:O	27:BD:21:PHE:CB	2.69	0.41
27:BD:244:ARG:CA	27:BD:252:TRP:NE1	2.84	0.41
27:BD:258:LYS:CA	27:BD:261:LYS:HD2	2.49	0.41
27:BD:54:ARG:HA	27:BD:220:HIS:N	2.36	0.41
24:BA:2636:U:C4'	28:BE:79:ARG:NH2	2.80	0.41
28:BE:91:VAL:CG2	28:BE:93:VAL:H	2.20	0.41
29:BF:11:VAL:CB	29:BF:17:ARG:HH12	2.33	0.41
29:BF:201:VAL:HA	29:BF:204:ASN:HD21	1.80	0.41
29:BF:201:VAL:CB	29:BF:205:ARG:HH21	2.32	0.41
29:BF:31:HIS:O	29:BF:38:ARG:NH2	2.54	0.41
30:BG:5:VAL:HG12	30:BG:6:ALA:N	2.35	0.41
30:BG:50:ALA:HA	30:BG:70:VAL:HG13	2.01	0.41
30:BG:38:VAL:HG12	30:BG:93:THR:HG23	2.01	0.41
31:BH:103:LEU:O	31:BH:113:VAL:HG12	2.19	0.41
31:BH:97:ARG:HH21	31:BH:97:ARG:CB	2.34	0.41
31:BH:98:LEU:O	31:BH:99:VAL:HB	2.20	0.41
32:BK:40:THR:HG22	32:BK:42:SER:H	1.86	0.41
33:BL:104:VAL:CG1	33:BL:127:ILE:HB	2.45	0.41
33:BL:78:ILE:HG21	33:BL:136:VAL:HG11	1.97	0.41
24:BA:2640:G:O3'	34:BM:75:TYR:CE1	2.74	0.41
35:BN:53:LYS:HG3	35:BN:54:GLU:N	2.34	0.41
24:BA:1664:A:O2'	35:BN:66:LYS:CE	2.69	0.41
35:BN:94:ARG:HG2	35:BN:96:THR:N	2.35	0.41
36:BO:119:GLU:C	36:BO:120:ALA:O	2.57	0.41
36:BO:77:ARG:CZ	36:BO:79:ARG:HB3	2.50	0.41
36:BO:79:ARG:HE	36:BO:83:VAL:HG12	1.86	0.41
36:BO:99:LEU:HD22	36:BO:101:VAL:CG2	2.46	0.41
37:BP:121:ALA:C	37:BP:125:LEU:HG	2.37	0.41
38:BQ:17:ARG:O	38:BQ:20:LEU:N	2.54	0.41
38:BQ:75:LEU:CD2	38:BQ:78:LYS:HB3	2.50	0.41
40:BS:15:VAL:HG11	40:BS:18:ASP:OD1	2.20	0.41
41:BT:46:ALA:N	41:BT:49:HIS:ND1	2.69	0.41
43:BV:28:SER:C	43:BV:31:GLU:OE1	2.59	0.41
45:BX:35:TYR:HD1	45:BX:64:GLU:O	2.03	0.41
46:BY:116:VAL:HG12	46:BY:176:PRO:CA	2.49	0.41
46:BY:116:VAL:HG22	46:BY:145:GLU:HG2	2.01	0.41
47:BZ:38:VAL:CG1	47:BZ:45:PHE:CE1	3.03	0.41
32:BK:54:GLN:OE1	32:BK:57:ARG:HD2	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AD:62:C:H5'	26:BC:52:ARG:HD3	2.00	0.41
26:BC:89:ALA:HB2	26:BC:154:ARG:NH1	2.36	0.41
24:BA:1487:G:C5	24:BA:1488:G:N7	2.88	0.41
1:AA:161:A:N1	1:AA:347:G:O2'	2.48	0.41
24:BA:1511:A:C8	24:BA:1512:G:H5''	2.56	0.41
3:AD:44:G:C3'	3:AD:45:U:H5'	2.50	0.41
2:A1:29:G:C6	2:A1:30:U:C5	3.09	0.41
1:AA:1026:G:O6	1:AA:1036:G:N2	2.53	0.41
1:AA:1115:C:O2'	1:AA:1116:C:C5'	2.69	0.41
1:AA:1206:G:C6	1:AA:1207:G:C5	3.09	0.41
1:AA:1270:C:C4	1:AA:1271:G:N7	2.89	0.41
1:AA:1278:U:H5'	1:AA:1279:A:H4'	2.02	0.41
1:AA:1276:G:HO2'	1:AA:1282:C:H4'	1.84	0.41
1:AA:1358:U:OP1	16:AQ:35:ARG:HG3	2.21	0.41
1:AA:68:G:C5'	1:AA:171:A:H1'	2.50	0.41
1:AA:284:G:O2'	1:AA:285:G:C5'	2.62	0.41
1:AA:118:U:H3'	1:AA:288:A:N6	2.35	0.41
1:AA:298:A:OP1	1:AA:298:A:H8	2.04	0.41
1:AA:354:G:N3	1:AA:355:C:C6	2.88	0.41
1:AA:386:C:N4	1:AA:387:U:C4	2.89	0.41
1:AA:401:C:OP2	6:AG:73:ARG:CZ	2.69	0.41
1:AA:410:G:N2	1:AA:429:U:C2	2.88	0.41
1:AA:455:C:O2'	1:AA:456:C:H5'	2.21	0.41
1:AA:520:A:C8	1:AA:520:A:H3'	2.56	0.41
1:AA:518:C:H5	1:AA:530:G:C8	2.39	0.41
1:AA:584:G:C6	1:AA:585:G:N7	2.88	0.41
1:AA:622:A:H2'	1:AA:623:C:O5'	2.21	0.41
1:AA:637:G:C2	1:AA:638:G:C8	3.08	0.41
1:AA:658:G:OP1	17:AR:31:LEU:HD23	2.21	0.41
1:AA:67:C:H5'	1:AA:172:A:HO2'	1.79	0.41
1:AA:741:G:H2'	1:AA:742:G:H8	1.85	0.41
1:AA:662:G:N1	1:AA:744:C:C4	2.89	0.41
1:AA:785:G:C2	1:AA:798:G:C4	3.09	0.41
1:AA:867:G:N3	1:AA:868:C:C6	2.89	0.41
1:AA:85:U:H2'	1:AA:86:U:H5'	2.02	0.41
1:AA:89:U:O2'	1:AA:90:C:H5'	2.21	0.41
1:AA:966:G:H2'	1:AA:967:C:O5'	2.21	0.41
1:AA:979:C:OP2	1:AA:980:C:N4	2.54	0.41
1:AA:961:U:O4'	1:AA:983:A:C2	2.73	0.41
4:AE:144:ARG:O	4:AE:145:LEU:C	2.60	0.41
4:AE:213:LEU:O	4:AE:216:SER:HB3	2.21	0.41
4:AE:221:LEU:HD13	4:AE:222:ILE:HA	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:43:ASP:OD2	4:AE:45:GLN:HB2	2.21	0.41
4:AE:58:ILE:CG2	4:AE:221:LEU:CD1	2.99	0.41
5:AF:150:LYS:C	5:AF:150:LYS:HD3	2.40	0.41
1:AA:1191:A:C5'	5:AF:4:LYS:HZ2	2.33	0.41
5:AF:59:ARG:HD3	5:AF:61:ALA:O	2.20	0.41
1:AA:1081:G:OP1	7:AH:18:ARG:CB	2.68	0.41
7:AH:61:TYR:O	7:AH:62:ALA:C	2.59	0.41
8:AI:69:GLU:HB2	8:AI:70:ASP:H	1.43	0.41
10:AK:25:ASP:N	10:AK:25:ASP:OD1	2.53	0.41
10:AK:49:GLU:CD	10:AK:60:ARG:HB3	2.40	0.41
10:AK:68:ARG:NE	10:AK:74:PRO:HB3	2.36	0.41
11:AL:5:TYR:CZ	11:AL:18:PHE:CE2	3.08	0.41
11:AL:6:GLY:CA	11:AL:80:GLY:O	2.60	0.41
1:AA:1279:A:H5''	12:AM:7:LYS:HE2	2.02	0.41
13:AN:120:ARG:HE	13:AN:126:ARG:NH2	2.19	0.41
14:AO:109:GLY:O	14:AO:111:LYS:N	2.54	0.41
14:AO:46:LYS:HZ3	14:AO:94:PRO:HG2	1.84	0.41
14:AO:59:ARG:CA	14:AO:64:TYR:O	2.51	0.41
18:AS:40:ASP:HA	18:AS:41:PRO:HD3	1.76	0.41
18:AS:71:ARG:HB3	18:AS:71:ARG:HH11	1.85	0.41
1:AA:254:G:O2'	19:AT:18:THR:OG1	2.35	0.41
20:AU:45:SER:CB	20:AU:49:LYS:HZ1	2.34	0.41
20:AU:47:THR:N	20:AU:49:LYS:HE2	2.36	0.41
20:AU:56:THR:HB	20:AU:58:LEU:CD1	2.44	0.41
44:BW:4:ALA:C	48:B1:21:ARG:NH2	2.74	0.41
48:B1:23:LYS:HD3	48:B1:55:LEU:HD21	2.01	0.41
50:B3:40:HIS:CB	50:B3:41:PRO:HD3	2.51	0.41
50:B3:39:CYS:O	50:B3:40:HIS:CD2	2.74	0.41
50:B3:41:PRO:HA	50:B3:58:ARG:NH1	2.35	0.41
50:B3:42:PHE:O	50:B3:61:ARG:CZ	2.69	0.41
53:B6:13:ALA:O	53:B6:16:HIS:O	2.39	0.41
55:B8:1:MET:HG2	55:B8:2:LYS:N	2.35	0.41
55:B8:10:ILE:CG1	55:B8:32:HIS:HD2	2.34	0.41
24:BA:1124:C:O2'	55:B8:36:GLN:O	2.39	0.41
24:BA:1027:A:C2'	24:BA:1028:A:H8	2.33	0.41
24:BA:1136:G:N2	24:BA:1137:G:C1'	2.84	0.41
24:BA:988:A:O2'	24:BA:1157:G:H4'	2.21	0.41
24:BA:1271:G:OP2	24:BA:1272:A:OP1	2.38	0.41
24:BA:1277:G:O2'	38:BQ:24:GLN:CG	2.69	0.41
24:BA:1326:U:C4	24:BA:1327:C:C6	3.09	0.41
24:BA:1358:G:C8	24:BA:1371:G:C6	3.09	0.41
24:BA:1517:G:N2	24:BA:1518:C:O2	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1429:G:H1'	24:BA:1568:G:N3	2.36	0.41
24:BA:1343:G:C8	24:BA:1597:A:N6	2.89	0.41
24:BA:1603:A:N1	24:BA:1604:C:N4	2.69	0.41
24:BA:1272:A:H5'	24:BA:1646:C:N3	2.35	0.41
24:BA:1693:U:O4	24:BA:1977:A:N7	2.53	0.41
24:BA:1699:G:C5	24:BA:1763:G:N3	2.89	0.41
24:BA:1819:A:H5''	27:BD:178:PRO:HB3	1.95	0.41
24:BA:1831:G:H2'	24:BA:1832:C:H6	1.86	0.41
24:BA:1906:G:C5	24:BA:1929:G:C5	3.09	0.41
24:BA:1932:A:N6	24:BA:1933:G:C6	2.88	0.41
24:BA:1945:G:O2'	24:BA:1946:U:H5'	2.20	0.41
24:BA:2018:G:C8	24:BA:2018:G:OP2	2.70	0.41
24:BA:2264:C:C2	24:BA:2277:G:N2	2.89	0.41
24:BA:2280:G:N3	24:BA:2281:C:C5	2.89	0.41
24:BA:2323:G:N3	24:BA:2324:C:C4	2.89	0.41
24:BA:2373:G:N3	24:BA:2374:C:C4	2.89	0.41
24:BA:2391:G:C2'	24:BA:2392:A:OP2	2.68	0.41
24:BA:2423:U:H5'	24:BA:2423:U:C6	2.56	0.41
24:BA:2246:G:C1'	24:BA:2426:A:C2	3.04	0.41
24:BA:825:C:C1'	24:BA:2428:G:N2	2.75	0.41
24:BA:2431:U:HO2'	24:BA:2432:A:H8	1.66	0.41
24:BA:792:G:C6	24:BA:2440:C:C6	3.09	0.41
24:BA:2500:U:O2'	24:BA:2501:C:OP1	2.34	0.41
24:BA:256:A:H2'	24:BA:257:A:C8	2.55	0.41
24:BA:2705:A:C2'	24:BA:2706:G:O5'	2.66	0.41
24:BA:270(D):C:H2'	24:BA:270(E):G:C8	2.56	0.41
24:BA:281:G:O2'	24:BA:282:A:C5'	2.68	0.41
24:BA:2823:A:C5'	24:BA:2824:C:OP2	2.69	0.41
24:BA:2828:C:N3	24:BA:2829:C:N4	2.69	0.41
24:BA:285:C:O2'	24:BA:286:C:O5'	2.39	0.41
24:BA:2810:A:H62	24:BA:2891:G:H21	1.68	0.41
24:BA:432:A:O5'	24:BA:432:A:H8	2.04	0.41
24:BA:447:A:OP1	41:BT:5:LYS:NZ	2.53	0.41
24:BA:470:A:H2'	24:BA:471:A:C4'	2.51	0.41
24:BA:479:A:C6	24:BA:481:G:C4	3.09	0.41
24:BA:481:G:O2'	24:BA:507:A:N6	2.54	0.41
24:BA:596:G:H3'	24:BA:597:U:H6	1.85	0.41
24:BA:607:U:N3	24:BA:608:A:N7	2.69	0.41
24:BA:710:G:H2'	24:BA:711:G:C8	2.56	0.41
24:BA:748:G:N7	24:BA:750:A:N7	2.69	0.41
24:BA:761:A:C5'	24:BA:762:U:OP1	2.69	0.41
24:BA:799:G:C5	24:BA:800:A:C6	3.09	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:806:C:C6	24:BA:806:C:O5'	2.68	0.41
24:BA:974:G:C4	24:BA:1186:G:C5	3.08	0.41
24:BA:97:C:C4	24:BA:98:G:C8	3.08	0.41
24:BA:987:G:O6	24:BA:988:A:C6	2.74	0.41
25:BB:118:G:C4	25:BB:119:A:N7	2.89	0.41
25:BB:40:U:H2'	25:BB:41:U:OP1	2.21	0.41
25:BB:52:A:N3	25:BB:53:A:O4'	2.54	0.41
25:BB:88:C:C4	25:BB:89:G:N3	2.86	0.41
27:BD:124:PRO:O	27:BD:126:GLN:HG2	2.21	0.41
27:BD:123:ALA:HB1	27:BD:129:ASN:HB3	2.02	0.41
24:BA:763:G:C5'	27:BD:211:ARG:CZ	2.98	0.41
27:BD:262:ARG:O	27:BD:263:ARG:C	2.58	0.41
28:BE:105:THR:HG1	28:BE:166:THR:HA	1.85	0.41
28:BE:178:GLU:O	28:BE:179:GLU:C	2.59	0.41
28:BE:30:PRO:HG2	28:BE:90:THR:HG22	2.03	0.41
28:BE:38:THR:O	28:BE:42:ASP:N	2.53	0.41
28:BE:40:GLU:OE2	28:BE:40:GLU:HA	2.20	0.41
28:BE:43:GLY:O	28:BE:45:THR:CG2	2.62	0.41
29:BF:104:LYS:C	29:BF:108:LYS:HZ1	2.24	0.41
29:BF:157:VAL:O	29:BF:194:MET:CB	2.60	0.41
29:BF:4:VAL:HG12	29:BF:4:VAL:O	2.20	0.41
29:BF:8:GLN:O	29:BF:9:ILE:HD12	2.19	0.41
24:BA:2305:A:HO2'	30:BG:136:ARG:HA	1.84	0.41
31:BH:142:GLY:O	31:BH:145:ALA:HB3	2.20	0.41
31:BH:149:ARG:CG	31:BH:153:LYS:CD	2.97	0.41
31:BH:24:VAL:HG13	31:BH:37:VAL:HG12	2.03	0.41
31:BH:6:ARG:C	31:BH:69:ARG:NE	2.70	0.41
32:BK:2:LYS:CD	32:BK:44:LEU:HD21	2.51	0.41
32:BK:30:LEU:O	32:BK:33:ARG:HG3	2.20	0.41
32:BK:7:GLU:HA	32:BK:14:ASP:OD1	2.19	0.41
34:BM:13:TRP:O	34:BM:136:GLU:OE2	2.39	0.41
34:BM:26:LEU:O	34:BM:30:ILE:CD1	2.69	0.41
34:BM:89:LYS:CA	34:BM:92:ALA:HB3	2.48	0.41
24:BA:2563:U:C4'	35:BN:28:SER:HG	2.31	0.41
35:BN:43:VAL:CG2	35:BN:45:GLU:O	2.69	0.41
35:BN:88:ASN:HB2	35:BN:89:ASN:OD1	2.20	0.41
37:BP:22:LYS:CE	37:BP:23:GLY:N	2.84	0.41
37:BP:68:ILE:HG21	37:BP:95:ALA:HB1	2.02	0.41
38:BQ:102:GLU:CD	38:BQ:103:ARG:N	2.62	0.41
38:BQ:22:ARG:HD3	38:BQ:69:ASP:O	2.21	0.41
39:BR:40:ILE:CG2	39:BR:41:ASP:H	2.33	0.41
39:BR:98:VAL:O	39:BR:99:LYS:C	2.58	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BS:101:PHE:HA	40:BS:101:PHE:HD2	1.78	0.41
40:BS:19:LEU:O	40:BS:20:PRO:O	2.38	0.41
41:BT:80:ILE:C	41:BT:82:GLY:N	2.72	0.41
42:BU:25:LEU:HG	42:BU:28:GLU:OE1	2.20	0.41
43:BV:45:TYR:O	43:BV:46:PHE:C	2.55	0.41
43:BV:75:TYR:O	43:BV:104:THR:C	2.58	0.41
43:BV:78:GLU:OE2	43:BV:101:SER:OG	2.29	0.41
44:BW:31:HIS:O	44:BW:32:PRO:C	2.59	0.41
44:BW:47:PHE:O	44:BW:48:LYS:C	2.59	0.41
46:BY:103:ARG:CA	46:BY:103:ARG:HE	2.26	0.41
46:BY:111:VAL:C	46:BY:113:ALA:H	2.22	0.41
46:BY:44:PHE:HB3	46:BY:48:PHE:HE1	1.86	0.41
47:BZ:21:LEU:H	47:BZ:24:LYS:HZ2	1.69	0.41
1:AA:1210:C:C4'	1:AA:1214:C:H42	2.33	0.41
1:AA:1274:G:H2'	1:AA:1274:G:N3	2.36	0.41
1:AA:1311:G:N7	21:AV:2:PRO:CA	2.84	0.41
1:AA:1403:C:O2	1:AA:1499:A:N6	2.54	0.41
1:AA:1442:G:N2	1:AA:1442:G:P	2.94	0.41
1:AA:196:A:H8	1:AA:196:A:H3'	1.86	0.41
1:AA:329:A:C6	1:AA:332:G:C2	3.09	0.41
1:AA:369:C:C2	1:AA:370:C:C5	3.09	0.41
1:AA:375:U:C2'	1:AA:376:G:C5'	2.99	0.41
1:AA:391:G:O6	1:AA:392:G:C6	2.74	0.41
1:AA:439:A:C4	1:AA:496:A:C5	3.09	0.41
1:AA:468:A:N6	1:AA:474:G:N1	2.68	0.41
1:AA:468:A:N7	1:AA:474:G:N7	2.69	0.41
1:AA:475:G:C4	1:AA:476:G:N7	2.89	0.41
1:AA:498:A:C4	1:AA:547:A:C2	3.09	0.41
1:AA:537:G:O2'	1:AA:538:G:H5'	2.20	0.41
1:AA:687:A:O2'	1:AA:688:G:OP2	2.38	0.41
1:AA:690:G:C2	1:AA:691:G:O4'	2.74	0.41
1:AA:735:C:O5'	1:AA:735:C:C6	2.72	0.41
1:AA:80:G:C2'	1:AA:81:G:H8	2.34	0.41
1:AA:837:G:C2	1:AA:838:G:C5	3.08	0.41
1:AA:896:C:H2'	1:AA:897:C:C6	2.56	0.41
1:AA:908:A:H2'	1:AA:909:A:C8	2.53	0.41
1:AA:930:C:C4	1:AA:931:C:C5	3.09	0.41
1:AA:938:A:C2	1:AA:939:G:N9	2.89	0.41
1:AA:96:G:H2'	1:AA:97:U:C5	2.51	0.41
3:AB:12:U:C6	3:AB:12:U:C3'	3.04	0.41
3:AC:67:C:N4	3:AC:68:C:H41	2.19	0.41
4:AE:122:PHE:O	4:AE:123:ALA:C	2.59	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AE:52:GLU:CD	4:AE:53:ARG:N	2.74	0.41
5:AF:183:ASP:OD2	5:AF:184:TYR:N	2.54	0.41
6:AG:100:ARG:NH1	6:AG:137:SER:HA	2.35	0.41
6:AG:36:ARG:HG2	6:AG:38:TYR:OH	2.21	0.41
7:AH:109:ILE:CD1	7:AH:139:LEU:HD11	2.50	0.41
7:AH:141:GLN:O	7:AH:142:LEU:CG	2.67	0.41
7:AH:9:LYS:HD3	7:AH:108:ALA:CB	2.51	0.41
8:AI:2:ARG:C	8:AI:67:MET:SD	3.00	0.41
9:AJ:147:ALA:C	9:AJ:149:ARG:N	2.74	0.41
9:AJ:71:PRO:HB2	9:AJ:72:ARG:H	1.77	0.41
10:AK:81:HIS:CD2	10:AK:138:TRP:O	2.74	0.41
10:AK:10:LEU:HA	10:AK:83:ILE:HD11	2.03	0.41
1:AA:1348:U:P	11:AL:109:VAL:HA	2.60	0.41
1:AA:1367:C:OP2	11:AL:115:GLY:HA2	2.21	0.41
11:AL:116:LYS:HB3	11:AL:122:ALA:N	2.34	0.41
13:AN:41:THR:HB	13:AN:71:LYS:CD	2.50	0.41
14:AO:103:GLY:HA2	14:AO:107:ALA:O	2.21	0.41
14:AO:110:VAL:CB	14:AO:113:ARG:HG3	2.51	0.41
14:AO:85:ILE:CD1	14:AO:99:HIS:O	2.69	0.41
1:AA:1229:A:P	15:AP:116:THR:HG22	2.60	0.41
15:AP:3:ARG:CZ	30:BG:113:ARG:NE	2.84	0.41
15:AP:48:LEU:HD23	15:AP:52:GLU:HB2	1.93	0.41
15:AP:90:LEU:CD2	15:AP:93:ARG:HD3	2.50	0.41
18:AS:32:TYR:O	18:AS:34:GLU:N	2.54	0.41
18:AS:4:ILE:O	18:AS:66:PRO:HA	2.21	0.41
18:AS:75:ARG:HA	18:AS:80:PHE:HB3	2.03	0.41
18:AS:75:ARG:HG3	18:AS:80:PHE:CG	2.55	0.41
1:AA:1310:G:N7	21:AV:2:PRO:HD3	2.36	0.41
21:AV:51:VAL:HB	21:AV:75:ALA:CB	2.50	0.41
1:AA:1331:G:O6	23:AX:7:ARG:NH2	2.54	0.41
24:BA:851:U:C1'	49:B2:46:ASN:HB2	2.50	0.41
51:B4:35:GLU:OE1	51:B4:51:TYR:CD2	2.74	0.41
52:B5:16:CYS:SG	52:B5:20:ASN:HB2	2.61	0.41
52:B5:44:ARG:HB3	52:B5:45:LYS:H	1.74	0.41
24:BA:210:C:OP1	53:B6:29:LYS:HD3	2.21	0.41
24:BA:458:G:C2'	53:B6:40:TRP:NE1	2.83	0.41
54:B7:40:GLU:O	54:B7:42:ARG:N	2.54	0.41
54:B7:26:LYS:O	54:B7:47:LYS:HD2	2.21	0.41
24:BA:1027:A:HO2'	24:BA:1028:A:H8	1.69	0.41
24:BA:1036:G:C2	24:BA:1037:G:C8	3.09	0.41
24:BA:111:A:H4'	48:B1:60:ASN:CG	2.41	0.41
24:BA:112:U:N3	24:BA:113:G:H1'	2.35	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1247:A:H2'	24:BA:1248:G:H5''	2.03	0.41
24:BA:1334:G:OP1	44:BW:65:ARG:NH1	2.52	0.41
24:BA:1364:G:C8	24:BA:1364:G:OP2	2.74	0.41
24:BA:1338:G:N3	24:BA:1393:A:H2	2.19	0.41
24:BA:1395:A:C6	24:BA:1398:C:C2	3.09	0.41
24:BA:1341:U:C4	24:BA:1398:C:H5'	2.54	0.41
24:BA:14:A:N7	24:BA:15:G:C1'	2.84	0.41
24:BA:1524:G:N3	24:BA:1525:G:C8	2.89	0.41
24:BA:1601:G:H2'	24:BA:1601:G:N3	2.34	0.41
24:BA:1647:G:C5'	24:BA:1648:C:OP1	2.69	0.41
24:BA:1661:G:C5	24:BA:2000:G:C2	3.09	0.41
24:BA:1696:G:H2'	24:BA:1697:G:C1'	2.51	0.41
24:BA:173:G:N2	24:BA:174:C:C2	2.89	0.41
24:BA:1742:C:O4'	24:BA:1742:C:P	2.79	0.41
24:BA:176:G:C2'	24:BA:177:G:C8	2.90	0.41
24:BA:1825:A:C6	24:BA:1826:G:C6	3.08	0.41
24:BA:1908:C:H2'	24:BA:1909:C:C6	2.55	0.41
24:BA:1931:U:H6	24:BA:1931:U:H2'	1.65	0.41
24:BA:1982:C:H5''	24:BA:1983:C:OP2	2.21	0.41
24:BA:2007:C:O2'	24:BA:2008:C:H5'	2.20	0.41
24:BA:2045:C:O2'	24:BA:2046:G:C5'	2.69	0.41
24:BA:2087:G:H8	24:BA:2087:G:C5'	2.34	0.41
24:BA:2093:G:O3'	32:BK:25:TYR:HB3	2.21	0.41
24:BA:213:A:C2	24:BA:214:G:O4'	2.74	0.41
24:BA:2207:C:C3'	24:BA:2208:U:C5'	2.98	0.41
24:BA:2252:G:N7	24:BA:2253:G:N7	2.69	0.41
24:BA:2284:C:H2'	24:BA:2285:C:C6	2.56	0.41
24:BA:2356:C:H5''	24:BA:2356:C:C6	2.55	0.41
24:BA:413:C:N4	24:BA:2410:G:H1	2.19	0.41
24:BA:2462:U:N3	24:BA:2463:C:C4	2.89	0.41
24:BA:2530:A:H3'	24:BA:2531:A:C5'	2.50	0.41
24:BA:2545:G:HO2'	24:BA:2565:A:H61	1.69	0.41
24:BA:242:G:C2'	24:BA:254:G:O6	2.64	0.41
24:BA:2569:G:N3	24:BA:2570:G:H8	2.16	0.41
24:BA:2653:U:N3	24:BA:2668:G:N1	2.69	0.41
24:BA:2690:C:O2'	24:BA:2691:C:P	2.76	0.41
24:BA:270(B):A:O2'	24:BA:270(C):C:H3'	2.21	0.41
24:BA:270(M):U:C2'	24:BA:270(M):U:O2	2.68	0.41
24:BA:270(R):G:N2	24:BA:270(S):G:C4	2.89	0.41
24:BA:2688:U:N3	24:BA:2719:G:C2	2.89	0.41
24:BA:2771:C:O2	24:BA:2771:C:H2'	2.21	0.41
24:BA:2786:U:C2	24:BA:2787:C:C5	3.08	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:280:C:H3'	24:BA:282:A:OP2	2.20	0.41
24:BA:2881:C:H4'	38:BQ:117:VAL:HG21	2.03	0.41
24:BA:300:A:H8	24:BA:300:A:H3'	1.84	0.41
24:BA:312:G:N3	24:BA:313:C:C5	2.89	0.41
24:BA:301:G:C5	24:BA:317:G:N1	2.89	0.41
24:BA:358:U:OP2	24:BA:359:A:N7	2.54	0.41
24:BA:370:G:C2	24:BA:424:G:C8	3.08	0.41
24:BA:373:U:C2'	24:BA:374:A:OP2	2.68	0.41
24:BA:385:C:O2	24:BA:385:C:H2'	2.21	0.41
24:BA:424:G:C2'	24:BA:425:G:C5'	2.99	0.41
24:BA:445:C:O2'	24:BA:449:A:C8	2.74	0.41
24:BA:465:G:N2	24:BA:683:C:C2'	2.83	0.41
24:BA:471:A:C8	24:BA:472:A:N7	2.89	0.41
24:BA:496:G:C6	24:BA:497:A:C6	3.09	0.41
24:BA:529:A:O3'	24:BA:530:G:H8	2.03	0.41
24:BA:559:G:HO2'	24:BA:560:C:C5'	2.28	0.41
24:BA:562:U:C2'	24:BA:563:G:OP2	2.69	0.41
24:BA:629:G:C6	24:BA:630:G:C6	3.09	0.41
24:BA:656:G:O2'	24:BA:657:U:O5'	2.38	0.41
24:BA:679:C:O2	24:BA:679:C:C2'	2.67	0.41
24:BA:784:A:C6	24:BA:792:G:N3	2.84	0.41
24:BA:876:C:H2'	24:BA:877:U:C6	2.56	0.41
25:BB:95:U:C2	25:BB:96:G:N7	2.89	0.41
24:BA:1861:G:OP1	26:BC:206:GLY:HA2	2.21	0.41
27:BD:105:ILE:CD1	27:BD:106:ILE:HG23	2.51	0.41
24:BA:1813:G:HO2'	27:BD:52:ARG:NH2	2.15	0.41
27:BD:5:LYS:HB2	27:BD:82:ILE:CG1	2.51	0.41
28:BE:119:ARG:HH11	28:BE:120:TRP:CA	2.30	0.41
28:BE:119:ARG:NH2	28:BE:155:LYS:CB	2.84	0.41
28:BE:164:ARG:CG	28:BE:165:VAL:N	2.84	0.41
28:BE:171:GLU:CD	28:BE:173:VAL:H	2.24	0.41
28:BE:8:LYS:HZ1	40:BS:3:ARG:NE	2.19	0.41
29:BF:27:GLU:CG	29:BF:116:ASP:HB2	2.51	0.41
29:BF:90:PHE:O	29:BF:91:GLY:O	2.39	0.41
30:BG:43:LEU:HD12	30:BG:43:LEU:HA	1.59	0.41
31:BH:11:VAL:N	31:BH:50:VAL:CG2	2.83	0.41
31:BH:85:LYS:CB	31:BH:85:LYS:NZ	2.82	0.41
24:BA:1096:A:N6	33:BL:30:HIS:HD2	2.19	0.41
33:BL:24:GLY:CA	33:BL:34:ILE:HG23	2.51	0.41
34:BM:55:VAL:N	34:BM:130:HIS:HE1	2.18	0.41
35:BN:37:ASP:C	35:BN:61:VAL:HG23	2.41	0.41
36:BO:112:LEU:HB2	36:BO:128:HIS:CE1	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BO:34:GLY:O	36:BO:36:LYS:N	2.54	0.41
36:BO:70:GLN:C	36:BO:71:VAL:HG23	2.40	0.41
36:BO:86:LYS:HB3	36:BO:87:ASP:H	1.59	0.41
37:BP:102:VAL:CG1	37:BP:104:PHE:CZ	3.04	0.41
37:BP:39:PRO:CB	37:BP:127:ILE:HG12	2.51	0.41
24:BA:2485:G:H5"	37:BP:46:GLN:OE1	2.21	0.41
37:BP:6:ARG:HH21	37:BP:8:LYS:N	2.17	0.41
37:BP:6:ARG:O	37:BP:7:MET:CE	2.69	0.41
37:BP:97:VAL:N	37:BP:98:LYS:HE2	2.36	0.41
37:BP:98:LYS:N	37:BP:98:LYS:HE2	2.34	0.41
38:BQ:67:LEU:C	38:BQ:69:ASP:N	2.71	0.41
39:BR:101:LEU:C	39:BR:101:LEU:HD13	2.41	0.41
39:BR:74:ALA:CB	39:BR:108:GLY:H	2.28	0.41
39:BR:94:TYR:C	39:BR:99:LYS:CB	2.88	0.41
40:BS:113:LYS:O	40:BS:116:ALA:CB	2.65	0.41
40:BS:73:GLU:O	40:BS:73:GLU:HG3	2.21	0.41
41:BT:104:GLN:O	41:BT:105:VAL:C	2.59	0.41
41:BT:112:ARG:O	41:BT:113:ALA:C	2.60	0.41
42:BU:20:LEU:HG	42:BU:20:LEU:O	2.21	0.41
43:BV:98:LYS:C	43:BV:98:LYS:HE2	2.42	0.41
44:BW:25:LYS:HG2	44:BW:82:GLN:HE21	1.86	0.41
44:BW:47:PHE:O	44:BW:49:VAL:HG13	2.19	0.41
44:BW:68:ARG:CB	44:BW:68:ARG:NH1	2.84	0.41
45:BX:36:ALA:HB1	45:BX:62:GLU:O	2.20	0.41
46:BY:155:LEU:O	46:BY:156:LYS:CB	2.68	0.41
46:BY:127:LYS:CD	46:BY:165:VAL:HG23	2.42	0.41
46:BY:31:ARG:NH1	46:BY:31:ARG:CG	2.84	0.41
46:BY:40:ASP:N	46:BY:44:PHE:CE1	2.89	0.41
46:BY:48:PHE:O	46:BY:51:ALA:N	2.39	0.41
32:BK:92:VAL:CG1	32:BK:120:ILE:HG23	2.51	0.41
24:BA:2117:A:N6	24:BA:2171:A:C2	2.86	0.41
26:BC:104:LEU:HD13	26:BC:130:ILE:CG1	2.51	0.41
26:BC:104:LEU:HD11	26:BC:130:ILE:HD11	2.02	0.41
26:BC:190:ARG:HH11	26:BC:190:ARG:CG	2.34	0.41
3:AD:15:G:O6	3:AD:48:C:C4	2.74	0.41
26:BC:138:PRO:HB3	26:BC:145:VAL:HG22	2.02	0.41
26:BC:213:TYR:HA	26:BC:224:ILE:HG12	2.02	0.41
6:AG:47:ARG:CB	6:AG:47:ARG:HH11	2.32	0.41
48:B1:7:GLU:O	48:B1:10:LYS:CB	2.69	0.41
48:B1:1:MET:C	48:B1:3:LYS:N	2.74	0.41
1:AA:1165:C:N4	1:AA:1166:G:C5	2.89	0.41
1:AA:1169:A:C5	1:AA:1170:A:N1	2.89	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BR:54:LEU:O	39:BR:56:LEU:HD22	2.21	0.41
24:BA:2190:G:C6	24:BA:2191:G:N7	2.89	0.41
24:BA:363(C):G:H2'	24:BA:363(D):G:O5'	2.21	0.41
10:AK:54:ASP:C	10:AK:56:LYS:N	2.74	0.41
34:BM:140:VAL:CG1	34:BM:140:VAL:OXT	2.69	0.41
46:BY:8:TYR:HD1	46:BY:8:TYR:N	2.15	0.41
1:AA:73:G:N2	1:AA:74:C:C2	2.88	0.41
1:AA:418:C:O2'	1:AA:419:C:H5'	2.20	0.41
44:BW:13:LEU:HD23	44:BW:13:LEU:N	2.36	0.41
2:A1:39:U:H4'	2:A1:40:U:H5'	2.01	0.41
1:AA:1043:C:C4	1:AA:1044:A:N7	2.89	0.41
1:AA:1080:A:H8	1:AA:1080:A:O5'	2.04	0.41
1:AA:1092:A:C8	1:AA:1183:A:N7	2.89	0.41
1:AA:1107:C:H2'	1:AA:1107:C:O2	2.21	0.41
1:AA:1148:U:H5'	11:AL:16:ARG:HD2	2.01	0.41
1:AA:11:G:O2'	1:AA:12:U:H5'	2.21	0.41
1:AA:1363:A:H1'	1:AA:1365:G:N7	2.35	0.41
1:AA:1440:C:O2	1:AA:1441:G:O4'	2.39	0.41
1:AA:1475:G:H2'	1:AA:1476:G:O5'	2.21	0.41
1:AA:170:U:O2	1:AA:170:U:H2'	2.20	0.41
1:AA:397:A:C2'	1:AA:398:C:OP2	2.69	0.41
1:AA:592:G:C6	1:AA:648:A:C6	3.09	0.41
1:AA:626:U:H2'	1:AA:627:G:H8	1.86	0.41
1:AA:673:G:C6	1:AA:734:G:C6	3.09	0.41
1:AA:766:A:C2'	1:AA:767:A:H8	2.34	0.41
1:AA:924:C:C2	1:AA:925:G:C8	3.08	0.41
3:AB:18:G:O2'	3:AB:57:G:N2	2.53	0.41
3:AB:74:C:C4	24:BA:2555:U:N1	2.89	0.41
3:AC:74:C:N4	47:BZ:4:LYS:HZ1	2.17	0.41
4:AE:118:LEU:HD22	4:AE:142:LEU:HD13	2.02	0.41
4:AE:130:ARG:CA	4:AE:130:ARG:NE	2.78	0.41
4:AE:221:LEU:HD13	4:AE:221:LEU:O	2.19	0.41
5:AF:138:VAL:CG1	5:AF:149:ALA:HB3	2.51	0.41
5:AF:18:TRP:CE2	16:AQ:55:GLY:O	2.74	0.41
5:AF:73:PRO:HD3	5:AF:105:GLU:CD	2.41	0.41
6:AG:108:LEU:HD22	6:AG:108:LEU:HA	1.78	0.41
1:AA:543:C:OP2	6:AG:10:ARG:NH2	2.53	0.41
6:AG:122:ARG:HG3	6:AG:136:PRO:HG2	2.03	0.41
7:AH:75:THR:CA	7:AH:118:ILE:HD11	2.50	0.41
8:AI:2:ARG:CD	8:AI:69:GLU:HG2	2.51	0.41
8:AI:11:ASN:HB3	8:AI:84:ASN:HB3	2.03	0.41
9:AJ:69:VAL:C	9:AJ:100:ALA:HB1	2.41	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AJ:150:ALA:HA	13:AN:59:TYR:HB2	2.03	0.41
9:AJ:26:PHE:O	9:AJ:29:LYS:HB2	2.21	0.41
9:AJ:86:GLN:O	9:AJ:148:ASN:CB	2.65	0.41
10:AK:104:ARG:O	10:AK:107:LEU:HD23	2.21	0.41
10:AK:20:TYR:HD1	10:AK:65:TYR:CZ	2.38	0.41
10:AK:32:LYS:O	10:AK:35:ILE:N	2.55	0.41
10:AK:92:ARG:CG	10:AK:92:ARG:HH11	2.20	0.41
11:AL:47:LEU:HD11	11:AL:56:LEU:CD1	2.51	0.41
12:AM:33:GLN:O	12:AM:34:VAL:HG23	2.20	0.41
14:AO:84:LEU:CA	14:AO:104:VAL:HG11	2.50	0.41
14:AO:5:PRO:HG3	14:AO:15:ARG:NH2	2.35	0.41
14:AO:31:PRO:HB2	14:AO:32:PHE:H	1.71	0.41
14:AO:86:ARG:NH2	14:AO:119:LYS:HD3	2.35	0.41
15:AP:19:LEU:HD13	15:AP:25:ILE:CG2	2.51	0.41
16:AQ:16:PHE:HB3	16:AQ:18:VAL:HG22	2.03	0.41
17:AR:13:GLN:HB3	17:AR:13:GLN:HE21	1.66	0.41
17:AR:33:THR:HB	17:AR:34:LEU:H	1.79	0.41
18:AS:31:LYS:NZ	18:AS:31:LYS:CB	2.78	0.41
18:AS:58:TYR:HD1	18:AS:59:TRP:CA	2.33	0.41
48:B1:35:SER:CA	48:B1:38:GLN:OE1	2.66	0.41
48:B1:57:THR:O	48:B1:60:ASN:HB3	2.20	0.41
49:B2:37:LEU:O	49:B2:37:LEU:CG	2.64	0.41
49:B2:42:ALA:O	49:B2:43:ILE:C	2.59	0.41
49:B2:45:GLY:HA2	49:B2:48:GLU:CG	2.46	0.41
49:B2:47:VAL:O	49:B2:50:VAL:HB	2.21	0.41
24:BA:2046:G:C1'	51:B4:22:HIS:HD1	2.33	0.41
24:BA:2612:C:O2	51:B4:4:HIS:HB2	2.20	0.41
53:B6:8:ASN:CG	53:B6:10:ARG:HB2	2.41	0.41
54:B7:38:GLY:C	54:B7:41:ILE:HG12	2.41	0.41
54:B7:38:GLY:CA	54:B7:41:ILE:HG12	2.51	0.41
54:B7:53:PRO:C	54:B7:56:GLU:OE2	2.59	0.41
55:B8:19:ARG:HD2	55:B8:24:TYR:CD2	2.55	0.41
24:BA:1012:U:N3	24:BA:1142(A):A:O2'	2.54	0.41
24:BA:1080:C:O2'	24:BA:1081:U:H5'	2.21	0.41
24:BA:1207:C:H6	24:BA:1207:C:H5''	1.86	0.41
24:BA:1238:G:N1	24:BA:1239:G:C4	2.89	0.41
24:BA:1239:G:C2'	24:BA:1240:U:H5'	2.51	0.41
24:BA:1266:G:H2'	24:BA:1267:U:OP2	2.20	0.41
24:BA:1298:C:N4	24:BA:1299:G:C6	2.89	0.41
24:BA:1304:C:H2'	24:BA:1305:C:O5'	2.20	0.41
24:BA:1376:C:O2	24:BA:1377:G:C1'	2.69	0.41
24:BA:1387:C:C2'	24:BA:1388:G:H8	2.25	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:142:G:H2'	24:BA:143:C:H6	1.82	0.41
24:BA:146:G:H2'	24:BA:147:U:H5''	2.03	0.41
24:BA:1667:G:O5'	35:BN:7:TYR:CZ	2.74	0.41
24:BA:1672:C:C5	24:BA:1673:U:C5	3.09	0.41
24:BA:1687:G:C2'	24:BA:1701:A:H61	2.34	0.41
24:BA:180:G:N3	24:BA:180:G:H2'	2.36	0.41
24:BA:1917:U:C5	24:BA:1918:A:N9	2.89	0.41
24:BA:1957:C:H2'	24:BA:1958:C:C6	2.55	0.41
24:BA:1993:U:C4	24:BA:1994:C:N4	2.67	0.41
24:BA:2018:G:O6	24:BA:2035:G:C6	2.74	0.41
24:BA:214:G:C2'	24:BA:215:G:O4'	2.69	0.41
24:BA:2205:C:OP1	50:B3:44:THR:HG23	2.21	0.41
24:BA:2244:U:O2	24:BA:2244:U:C2'	2.65	0.41
24:BA:2318:G:C2'	24:BA:2319:G:OP2	2.68	0.41
24:BA:2344:U:O2'	24:BA:2345:G:O5'	2.30	0.41
24:BA:2423:U:H1'	24:BA:2425:A:N3	2.35	0.41
24:BA:2515:C:O2'	24:BA:2516:G:C5'	2.64	0.41
24:BA:2637:U:O2'	24:BA:2638:G:C1'	2.69	0.41
24:BA:2730:C:H2'	24:BA:2731:G:C8	2.56	0.41
24:BA:2766:G:N3	24:BA:2767:C:C5	2.89	0.41
24:BA:278:A:O4'	24:BA:278:A:OP1	2.38	0.41
24:BA:2809:A:O2'	24:BA:2811:G:OP2	2.25	0.41
24:BA:319:C:C4	24:BA:320:A:C5	3.09	0.41
24:BA:325:G:C8	24:BA:325:G:C3'	3.04	0.41
24:BA:475:U:C6	24:BA:509:C:C4	3.09	0.41
24:BA:566:U:H3'	24:BA:567:A:C8	2.55	0.41
24:BA:583:G:O2'	24:BA:584:C:C5'	2.66	0.41
24:BA:682:G:C4	24:BA:683:C:C5	3.08	0.41
24:BA:704:G:N3	24:BA:704:G:H2'	2.36	0.41
24:BA:720:C:C2	24:BA:721:C:C6	3.09	0.41
24:BA:733:G:N7	24:BA:761:A:C5	2.89	0.41
24:BA:814:C:H4'	24:BA:1224:G:C2	2.56	0.41
24:BA:892:G:H2'	24:BA:893:C:H6	1.85	0.41
25:BB:10:C:O5'	25:BB:10:C:H6	2.04	0.41
25:BB:84:C:H2'	25:BB:85:G:C5'	2.45	0.41
25:BB:85:G:H2'	25:BB:86:G:H8	1.85	0.41
27:BD:106:ILE:HB	27:BD:107:ALA:H	1.62	0.41
27:BD:117:VAL:HG12	27:BD:118:VAL:N	2.34	0.41
27:BD:145:VAL:HG22	27:BD:191:ALA:HB1	2.02	0.41
27:BD:263:ARG:HB2	27:BD:264:LYS:H	1.73	0.41
27:BD:39:LYS:CD	27:BD:39:LYS:N	2.81	0.41
27:BD:37:LEU:CD1	27:BD:64:ILE:N	2.79	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:BE:133:LYS:CG	28:BE:137:HIS:CD2	3.04	0.41
28:BE:154:LYS:CD	28:BE:155:LYS:O	2.68	0.41
28:BE:38:THR:CG2	28:BE:39:PRO:HD3	2.50	0.41
28:BE:40:GLU:C	28:BE:41:LYS:CE	2.87	0.41
29:BF:118:ALA:C	29:BF:122:LYS:HB2	2.41	0.41
29:BF:122:LYS:HE3	29:BF:192:LEU:CG	2.51	0.41
29:BF:28:ILE:HA	29:BF:28:ILE:HD12	1.99	0.41
29:BF:80:ALA:O	29:BF:83:PHE:CD2	2.74	0.41
30:BG:125:PHE:HD1	30:BG:131:TYR:C	2.23	0.41
30:BG:35:GLU:O	30:BG:160:VAL:O	2.39	0.41
30:BG:34:LEU:H	30:BG:34:LEU:HD12	1.85	0.41
30:BG:57:ALA:CA	30:BG:67:LYS:C	2.85	0.41
30:BG:68:PRO:CB	30:BG:72:ARG:NH1	2.79	0.41
24:BA:1036:G:P	31:BH:59:ARG:HH21	2.43	0.41
31:BH:83:TYR:HE1	31:BH:138:LYS:HD3	1.86	0.41
24:BA:1059:G:H21	33:BL:130:SER:HB3	1.81	0.41
34:BM:18:ALA:N	34:BM:21:LYS:HD2	2.35	0.41
34:BM:74:ARG:O	34:BM:76:SER:N	2.52	0.41
35:BN:2:ILE:HG12	35:BN:32:TYR:HD1	1.86	0.41
36:BO:36:LYS:CD	36:BO:42:SER:OG	2.69	0.41
36:BO:6:LEU:O	36:BO:6:LEU:CD2	2.64	0.41
37:BP:43:THR:HG1	37:BP:45:GLN:N	2.18	0.41
24:BA:1453:A:C5	38:BQ:77:ARG:HD3	2.56	0.41
38:BQ:58:GLY:N	38:BQ:80:PHE:CZ	2.89	0.41
39:BR:99:LYS:O	39:BR:103:GLU:CD	2.59	0.41
40:BS:114:LEU:O	40:BS:115:ARG:C	2.59	0.41
40:BS:65:LYS:CA	40:BS:76:PHE:O	2.63	0.41
40:BS:85:LYS:HB3	40:BS:85:LYS:NZ	2.31	0.41
41:BT:105:VAL:O	41:BT:109:LEU:CD1	2.69	0.41
43:BV:98:LYS:C	43:BV:98:LYS:CE	2.89	0.41
44:BW:27:THR:C	44:BW:28:PHE:CG	2.91	0.41
44:BW:35:THR:N	44:BW:38:GLU:CB	2.84	0.41
45:BX:6:HIS:CD2	45:BX:71:LYS:HE2	2.56	0.41
37:BP:59:ARG:NH1	46:BY:177:PRO:HB2	2.36	0.41
46:BY:59:LEU:C	46:BY:59:LEU:CD2	2.89	0.41
46:BY:1:MET:CE	46:BY:61:LEU:HG	2.51	0.41
47:BZ:33:ALA:CA	47:BZ:61:ALA:O	2.60	0.41
32:BK:120:ILE:HG23	32:BK:120:ILE:O	2.21	0.41
32:BK:100:ALA:O	32:BK:101:LEU:C	2.57	0.41
32:BK:125:GLU:C	32:BK:125:GLU:CD	2.79	0.41
3:AD:17:C:N4	3:AD:19:G:C8	2.85	0.41
24:BA:2173:A:C2	24:BA:2174:C:HI'	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2175:C:N3	24:BA:2176:A:C8	2.89	0.41
26:BC:124:GLY:HA2	26:BC:137:LEU:CD2	2.51	0.41
26:BC:199:HIS:O	26:BC:200:LYS:C	2.59	0.41
26:BC:20:TYR:CE1	26:BC:222:VAL:CG1	3.04	0.41
26:BC:49:ILE:HG23	26:BC:208:PHE:HE1	1.85	0.41
1:AA:160:A:H2	1:AA:343:U:H1'	1.84	0.41
24:BA:1579:A:C5	24:BA:1580:A:H1'	2.56	0.41
12:AM:17:ASP:O	12:AM:21:GLN:CB	2.70	0.41
26:BC:207:THR:HG22	26:BC:207:THR:O	2.21	0.41
24:BA:1502:C:H6	24:BA:1502:C:O5'	2.04	0.41
2:A1:37:U:H2'	2:A1:38:U:N1	2.35	0.40
1:AA:1033:G:C2	1:AA:1034:G:C4	3.09	0.40
1:AA:1055:A:N6	1:AA:1206:G:C4	2.89	0.40
1:AA:1120:G:N1	1:AA:1154:G:C2	2.89	0.40
1:AA:1133:G:C5	1:AA:1134:G:N7	2.89	0.40
1:AA:1195:C:H5''	1:AA:1196:U:OP2	2.21	0.40
1:AA:1053:G:O6	1:AA:1200:C:OP2	2.39	0.40
1:AA:1269:A:C5	1:AA:1313:U:O4'	2.74	0.40
1:AA:978:A:C2	1:AA:1319:A:N3	2.89	0.40
1:AA:1338:G:C6	1:AA:1339:A:C6	3.09	0.40
1:AA:1422:G:C2	1:AA:1423:G:C8	3.10	0.40
1:AA:14:U:O2	1:AA:17:U:C5	2.74	0.40
1:AA:1517:G:C1'	24:BA:1920:C:P	3.06	0.40
1:AA:186(B):C:C4'	22:AW:89:ARG:NH2	2.83	0.40
1:AA:196:A:C8	1:AA:196:A:H3'	2.56	0.40
1:AA:22:G:OP2	1:AA:561:U:O2	2.39	0.40
1:AA:253:U:O4'	1:AA:276:G:H1'	2.21	0.40
1:AA:280:C:H1'	19:AT:38:ARG:CD	2.51	0.40
1:AA:374:A:O4'	1:AA:481:G:N2	2.54	0.40
1:AA:406:G:C8	1:AA:495:A:C2	3.09	0.40
1:AA:599:C:O3'	10:AK:96:GLY:HA3	2.21	0.40
1:AA:652:U:C1'	1:AA:653:A:C2	3.04	0.40
1:AA:780:A:N3	1:AA:803:G:N1	2.69	0.40
1:AA:942:G:H21	11:AL:124:GLN:CD	2.23	0.40
1:AA:972:C:OP2	12:AM:57:LYS:NZ	2.52	0.40
1:AA:986:A:H4'	21:AV:55:LYS:CE	2.51	0.40
1:AA:988:G:C6	1:AA:989:C:C4	3.09	0.40
1:AA:993:G:H21	1:AA:995:C:N4	2.19	0.40
3:AC:11:C:H2'	3:AC:12:U:C5	2.57	0.40
3:AC:38:A:C8	3:AC:39:U:C6	3.09	0.40
4:AE:222:ILE:CB	4:AE:226:ARG:HH21	2.23	0.40
5:AF:18:TRP:O	5:AF:21:ARG:HG2	2.20	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AF:87:LEU:HB2	5:AF:101:LEU:HD12	2.02	0.40
6:AG:20:TYR:CD2	6:AG:27:TYR:CD2	3.09	0.40
7:AH:45:PHE:HE1	7:AH:47:LYS:CD	2.33	0.40
7:AH:64:ARG:HG2	7:AH:64:ARG:H	1.69	0.40
9:AJ:113:GLU:OE1	9:AJ:122:HIS:ND1	2.54	0.40
10:AK:14:ARG:HA	10:AK:17:THR:CB	2.50	0.40
10:AK:46:LYS:HG3	10:AK:64:LYS:HG3	2.03	0.40
10:AK:77:GLU:HB3	10:AK:78:GLN:H	1.45	0.40
11:AL:121:ARG:O	11:AL:121:ARG:HG2	2.21	0.40
12:AM:26:ALA:O	12:AM:84:GLN:CD	2.59	0.40
13:AN:73:MET:C	13:AN:75:TYR:N	2.74	0.40
14:AO:30:ALA:HB1	14:AO:31:PRO:CD	2.49	0.40
14:AO:27:LEU:CD2	14:AO:33:ARG:HD3	2.48	0.40
14:AO:57:LYS:HE2	14:AO:67:THR:CG2	2.50	0.40
15:AP:15:VAL:HG11	15:AP:34:LEU:HD23	2.03	0.40
15:AP:7:VAL:N	30:BG:114:ILE:HD13	2.36	0.40
15:AP:91:ARG:C	15:AP:98:VAL:HG22	2.41	0.40
17:AR:79:ARG:HG3	17:AR:82:ILE:HD12	2.02	0.40
1:AA:760:G:N1	19:AT:105:ALA:C	2.68	0.40
19:AT:10:VAL:HG12	19:AT:54:GLY:N	2.26	0.40
20:AU:50:ILE:HG22	20:AU:50:ILE:O	2.20	0.40
22:AW:13:LEU:O	22:AW:16:HIS:N	2.54	0.40
48:B1:36:ILE:O	48:B1:38:GLN:HG3	2.21	0.40
49:B2:17:LYS:O	49:B2:20:LYS:N	2.54	0.40
49:B2:27:GLY:O	49:B2:28:LEU:O	2.37	0.40
50:B3:42:PHE:O	50:B3:57:GLU:HA	2.20	0.40
50:B3:6:HIS:CB	50:B3:56:VAL:HA	2.50	0.40
51:B4:43:HIS:O	51:B4:44:THR:CG2	2.65	0.40
51:B4:47:PRO:O	51:B4:58:LEU:CD2	2.69	0.40
24:BA:1009:A:N1	24:BA:1010:A:C2	2.89	0.40
24:BA:1189:A:C5'	24:BA:1190:G:OP2	2.68	0.40
24:BA:839:U:H4'	24:BA:1191:G:H21	1.86	0.40
24:BA:1222:C:N3	24:BA:1223:C:C6	2.90	0.40
24:BA:1272:A:OP2	24:BA:1646:C:C2'	2.53	0.40
24:BA:1304:C:H2'	24:BA:1305:C:H5'	2.03	0.40
24:BA:1444(A):A:C8	24:BA:1460:A:O2'	2.74	0.40
24:BA:144:C:H2'	24:BA:145:G:C4'	2.51	0.40
24:BA:1519:G:N3	24:BA:1519:G:H2'	2.35	0.40
24:BA:1520:U:O5'	24:BA:1520:U:C6	2.74	0.40
24:BA:1551:C:C2	24:BA:1552:G:C8	3.09	0.40
24:BA:1603:A:N1	24:BA:1604:C:C4	2.89	0.40
24:BA:1625:C:C2	24:BA:1626:G:H1'	2.56	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1300:U:C2'	24:BA:1626:G:N2	2.67	0.40
24:BA:162:U:H2'	24:BA:162:U:O2	2.20	0.40
24:BA:1672:C:O2'	24:BA:1673:U:OP1	2.26	0.40
24:BA:1769:G:C2	24:BA:1984:G:C4	3.09	0.40
24:BA:1800:C:H1'	24:BA:1802:A:C8	2.56	0.40
24:BA:1841:U:C2	24:BA:1842:G:C8	3.08	0.40
24:BA:1945:G:H5'	24:BA:1945:G:H8	1.84	0.40
24:BA:2040:C:H2'	24:BA:2041:U:C6	2.56	0.40
24:BA:2069:G:C2	24:BA:2070:G:C8	3.09	0.40
24:BA:2080:G:H2'	24:BA:2081:C:O5'	2.21	0.40
24:BA:2097:C:C4	24:BA:2193:G:C6	3.09	0.40
24:BA:2236:C:C5'	24:BA:2236:C:H6	2.33	0.40
24:BA:224:G:N2	24:BA:225:A:H1'	2.36	0.40
24:BA:227:A:H62	24:BA:2407:G:H8	1.68	0.40
24:BA:2309:A:N3	24:BA:2309:A:C3'	2.83	0.40
24:BA:2298:A:C2	24:BA:2321:G:N1	2.89	0.40
24:BA:2287:A:H2	24:BA:2346:A:N6	2.18	0.40
24:BA:2355:C:OP1	47:BZ:25:ARG:NH2	2.54	0.40
24:BA:2390:U:H2'	24:BA:2391:G:O5'	2.21	0.40
24:BA:2427:C:H4'	24:BA:2428:G:H5''	2.01	0.40
24:BA:2437:U:O2'	24:BA:2438:U:H5'	2.21	0.40
24:BA:2572:A:C4'	24:BA:2573:C:OP1	2.69	0.40
24:BA:2580:U:C5	24:BA:2581:G:N7	2.89	0.40
24:BA:2603:G:C2'	24:BA:2604:U:H5'	2.50	0.40
24:BA:2633:G:C6	24:BA:2634:G:C5	3.09	0.40
24:BA:2658:C:C4	24:BA:2664:G:N2	2.89	0.40
24:BA:2659:G:H2'	24:BA:2661:G:OP2	2.20	0.40
24:BA:2695:C:O2'	24:BA:2696:U:C6	2.74	0.40
24:BA:2734:A:H62	24:BA:2770:G:H1'	1.83	0.40
24:BA:2773:C:O2'	24:BA:2774:C:O5'	2.31	0.40
24:BA:301:G:H2'	24:BA:302:C:C5	2.49	0.40
24:BA:30:G:OP1	41:BT:11:ARG:CZ	2.69	0.40
24:BA:317:G:C2'	24:BA:318:C:H5'	2.50	0.40
24:BA:326:G:C4	24:BA:327:G:N7	2.89	0.40
24:BA:247:G:O2'	24:BA:386:G:C2	2.74	0.40
24:BA:465:G:C6	24:BA:466:A:C5	3.09	0.40
24:BA:508:G:C5'	24:BA:509:C:OP1	2.70	0.40
24:BA:516:C:O2'	24:BA:517:C:C5'	2.62	0.40
24:BA:535:C:C2'	24:BA:536:A:C5'	2.98	0.40
24:BA:579:G:N1	24:BA:580:C:C4	2.89	0.40
24:BA:584:C:O2'	24:BA:585:G:H5'	2.21	0.40
24:BA:598:G:C6	24:BA:660:G:C6	3.09	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:684:G:C2	24:BA:775:G:C5	3.09	0.40
24:BA:691:C:C2'	24:BA:692:C:H5'	2.51	0.40
24:BA:70:G:H2'	24:BA:114:U:C6	2.56	0.40
24:BA:710:G:H2'	24:BA:711:G:H8	1.85	0.40
24:BA:849:A:H2'	24:BA:850:C:H6	1.84	0.40
24:BA:864:G:C2'	24:BA:865:C:C1'	2.91	0.40
24:BA:997:G:O2'	24:BA:998:C:O5'	2.39	0.40
25:BB:18:G:H2'	25:BB:19:G:H8	1.86	0.40
25:BB:1:U:O4'	25:BB:1:U:OP1	2.39	0.40
25:BB:40:U:H1'	25:BB:45:A:N6	2.22	0.40
25:BB:63:G:C4	25:BB:64:C:C5	3.09	0.40
27:BD:117:VAL:CG1	27:BD:129:ASN:OD1	2.56	0.40
27:BD:177:LEU:H	27:BD:177:LEU:CD2	2.26	0.40
28:BE:176:ILE:HG21	28:BE:181:LEU:HD12	2.03	0.40
28:BE:55:ASN:C	28:BE:57:LYS:H	2.24	0.40
28:BE:46:ALA:CB	28:BE:85:ASN:HD21	2.31	0.40
29:BF:69:HIS:O	29:BF:69:HIS:CG	2.71	0.40
30:BG:109:VAL:HG23	30:BG:109:VAL:O	2.21	0.40
30:BG:112:PRO:HG2	30:BG:112:PRO:O	2.20	0.40
30:BG:113:ARG:HH21	30:BG:139:LEU:HD22	1.86	0.40
30:BG:30:GLU:HB2	30:BG:162:THR:HG21	2.02	0.40
30:BG:119:GLY:CA	30:BG:180:PHE:CG	3.04	0.40
30:BG:19:LEU:HA	30:BG:22:ARG:HE	1.85	0.40
30:BG:33:ARG:NH2	30:BG:34:LEU:CA	2.84	0.40
32:BK:5:LEU:CG	32:BK:17:GLN:O	2.69	0.40
24:BA:2093:G:C5'	32:BK:25:TYR:CG	3.04	0.40
33:BL:131:ALA:C	33:BL:136:VAL:O	2.60	0.40
34:BM:46:VAL:CG1	34:BM:119:ARG:HH12	2.34	0.40
35:BN:54:GLU:HA	35:BN:54:GLU:OE1	2.21	0.40
35:BN:66:LYS:HA	35:BN:66:LYS:HD2	1.83	0.40
36:BO:126:VAL:HG23	36:BO:127:ALA:H	1.85	0.40
36:BO:130:PHE:O	36:BO:131:SER:O	2.39	0.40
24:BA:670:A:C2'	36:BO:41:ARG:CZ	2.87	0.40
36:BO:42:SER:HB3	36:BO:43:GLY:H	1.59	0.40
37:BP:12:GLN:O	37:BP:12:GLN:CD	2.59	0.40
37:BP:25:ASP:C	37:BP:26:TYR:CD2	2.95	0.40
37:BP:75:THR:HA	37:BP:91:GLU:HG2	2.01	0.40
38:BQ:52:ILE:CG2	38:BQ:53:HIS:N	2.83	0.40
38:BQ:7:GLY:O	38:BQ:8:ARG:O	2.38	0.40
38:BQ:41:ALA:CB	38:BQ:97:VAL:HG13	2.37	0.40
38:BQ:96:ARG:CD	38:BQ:98:LEU:HD11	2.51	0.40
39:BR:106:ARG:NH1	39:BR:106:ARG:HG2	2.36	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BS:20:PRO:CB	40:BS:22:PHE:CE1	3.03	0.40
40:BS:61:PHE:O	40:BS:62:THR:CG2	2.67	0.40
40:BS:23:ARG:NH2	40:BS:89:VAL:HA	2.36	0.40
44:BW:7:VAL:CG2	48:B1:31:ARG:CZ	2.99	0.40
44:BW:7:VAL:HG21	48:B1:31:ARG:CZ	2.51	0.40
45:BX:2:ARG:HD2	45:BX:3:VAL:CA	2.49	0.40
45:BX:35:TYR:N	45:BX:35:TYR:CD1	2.87	0.40
45:BX:44:ILE:CG2	45:BX:44:ILE:O	2.63	0.40
45:BX:6:HIS:CD2	45:BX:33:LYS:NZ	2.89	0.40
45:BX:67:LEU:HD12	45:BX:71:LYS:HZ1	1.86	0.40
45:BX:81:LYS:NZ	45:BX:96:ILE:HG12	2.36	0.40
46:BY:16:SER:OG	46:BY:17:ALA:N	2.54	0.40
47:BZ:31:VAL:HG13	47:BZ:67:VAL:HG23	2.03	0.40
24:BA:856:C:C1'	47:BZ:69:PHE:CE1	3.00	0.40
26:BC:7:TYR:CE1	26:BC:10:LEU:HG	2.55	0.40
26:BC:64:LEU:CD1	26:BC:174:PRO:O	2.69	0.40
24:BA:433:C:H2'	24:BA:434:U:C6	2.56	0.40
1:AA:339:C:C4	1:AA:340:U:C5	3.10	0.40
1:AA:1009:G:N3	1:AA:1010:G:C8	2.89	0.40
26:BC:148:ASN:HB2	26:BC:151:GLU:CD	2.41	0.40
3:AC:44:G:C2'	3:AC:45:U:H5'	2.50	0.40
1:AA:1015:A:C5	1:AA:1016:A:C6	3.09	0.40
1:AA:1029:G:O2'	1:AA:1031:G:N7	2.43	0.40
24:BA:55:G:C2	24:BA:56:A:N7	2.89	0.40
3:AB:47:U:C4	3:AB:49:C:H4'	2.56	0.40
1:AA:101:A:C2'	1:AA:102:G:H8	2.16	0.40
1:AA:116:A:OP1	1:AA:289:G:OP1	2.39	0.40
1:AA:122:G:H2'	1:AA:123:C:O4'	2.21	0.40
1:AA:1298:C:C5	9:AJ:114:ARG:CD	2.95	0.40
1:AA:1347:G:H3'	11:AL:107:ARG:CA	2.51	0.40
1:AA:1422:G:N1	1:AA:1423:G:C6	2.89	0.40
1:AA:142:G:HO2'	1:AA:196:A:H2	1.55	0.40
1:AA:1517:G:C6	1:AA:1518:A:C2	3.09	0.40
1:AA:186(A):C:N4	1:AA:191:G:N1	2.70	0.40
1:AA:191:G:C6	1:AA:192:U:C4	3.10	0.40
1:AA:22:G:N3	1:AA:23:C:C6	2.89	0.40
1:AA:261:U:C3'	1:AA:263:A:OP2	2.69	0.40
1:AA:310:G:C4	1:AA:311:C:C5	3.08	0.40
1:AA:315:A:N1	1:AA:330:C:C5	2.90	0.40
1:AA:363:A:N7	14:AO:30:ALA:CB	2.74	0.40
1:AA:413:G:N1	6:AG:36:ARG:NH1	2.69	0.40
1:AA:40:C:C2'	1:AA:41:G:O5'	2.69	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:498:A:N6	1:AA:547:A:O5'	2.45	0.40
1:AA:59:A:N6	1:AA:331:G:H1'	2.36	0.40
1:AA:624:C:O2	1:AA:625:G:C8	2.75	0.40
1:AA:774:G:H3'	1:AA:775:G:C8	2.56	0.40
1:AA:796:C:OP1	13:AN:123:LYS:HD3	2.20	0.40
1:AA:835:U:C2	1:AA:852:G:N2	2.89	0.40
1:AA:873:A:H4'	1:AA:874:G:OP2	2.20	0.40
1:AA:885:G:O2'	1:AA:915:A:C2	2.74	0.40
3:AC:16:U:C4'	3:AC:18:G:H5''	2.46	0.40
3:AC:1:G:C2	3:AC:2:C:C4	3.10	0.40
3:AC:37:A:C6	3:AC:38:A:C6	3.09	0.40
3:AC:67:C:N4	3:AC:68:C:N4	2.68	0.40
3:AC:75:C:H3'	3:AC:75:C:C6	2.56	0.40
4:AE:118:LEU:CD1	4:AE:141:GLU:OE2	2.65	0.40
1:AA:843:U:N3	4:AE:37:ASN:HA	2.37	0.40
4:AE:97:TRP:HZ2	4:AE:102:LEU:HD11	1.80	0.40
5:AF:8:ILE:O	5:AF:9:GLY:C	2.59	0.40
6:AG:101:LEU:HG	6:AG:102:ASP:N	2.35	0.40
6:AG:153:ARG:O	6:AG:154:ASN:HB3	2.21	0.40
6:AG:208:SER:O	6:AG:209:ARG:NH1	2.43	0.40
8:AI:52:ILE:HD13	8:AI:87:ARG:HH21	1.70	0.40
8:AI:82:ARG:O	8:AI:84:ASN:N	2.54	0.40
9:AJ:10:ARG:CB	9:AJ:10:ARG:HH11	2.33	0.40
9:AJ:12:LEU:HD21	9:AJ:25:ALA:HB2	2.02	0.40
9:AJ:68:ASN:HB3	9:AJ:135:VAL:HG11	2.03	0.40
9:AJ:41:ARG:CZ	9:AJ:41:ARG:HB3	2.49	0.40
1:AA:824:C:H1'	10:AK:1:MET:O	2.22	0.40
10:AK:23:SER:HA	10:AK:62:TYR:HD1	1.86	0.40
12:AM:12:ASP:CB	12:AM:15:THR:HG22	2.51	0.40
5:AF:5:ILE:HG22	12:AM:51:ARG:NH2	2.37	0.40
12:AM:46:ARG:CD	12:AM:64:GLU:OE2	2.69	0.40
13:AN:13:GLN:CD	13:AN:76:GLY:H	2.23	0.40
14:AO:57:LYS:HG2	14:AO:67:THR:CG2	2.30	0.40
15:AP:15:VAL:HB	15:AP:34:LEU:HD21	2.02	0.40
15:AP:84:ILE:CD1	15:AP:86:CYS:SG	3.07	0.40
17:AR:25:THR:OG1	17:AR:26:GLU:N	2.54	0.40
18:AS:19:ILE:HD11	18:AS:38:TYR:C	2.42	0.40
19:AT:87:LYS:C	19:AT:91:ARG:HE	2.24	0.40
20:AU:36:ASN:H	20:AU:40:LEU:HD11	1.87	0.40
21:AV:11:VAL:CG1	21:AV:38:SER:OG	2.69	0.40
22:AW:25:ARG:NH1	22:AW:25:ARG:CG	2.84	0.40
1:AA:186(A):C:O4'	22:AW:85:MET:SD	2.79	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:B2:17:LYS:O	49:B2:18:ASP:C	2.59	0.40
49:B2:7:LYS:HE2	49:B2:32:GLN:HA	2.02	0.40
52:B5:52:VAL:CG1	52:B5:53:LYS:N	2.64	0.40
54:B7:38:GLY:C	54:B7:40:GLU:N	2.72	0.40
24:BA:104:U:C6	24:BA:104:U:OP2	2.73	0.40
24:BA:1065:U:C4	24:BA:1066:U:C6	3.09	0.40
24:BA:1142:U:C2'	24:BA:1142(A):A:O5'	2.70	0.40
24:BA:1162:G:OP2	24:BA:1162:G:H8	2.04	0.40
24:BA:1166:C:C2'	24:BA:1167:U:O5'	2.69	0.40
24:BA:187:G:C2'	24:BA:1365:A:H2	2.19	0.40
24:BA:1419:A:C8	24:BA:1421:G:O6	2.74	0.40
24:BA:144:C:H2'	24:BA:145:G:H5'	1.99	0.40
24:BA:1609:A:N3	24:BA:1609:A:H3'	2.36	0.40
24:BA:1649:G:N1	24:BA:1650:G:N7	2.69	0.40
24:BA:1652:A:N7	24:BA:1653:G:C2	2.89	0.40
24:BA:1651:G:O3'	24:BA:1652:A:O4'	2.38	0.40
24:BA:1727:U:O2'	24:BA:1728:G:P	2.76	0.40
24:BA:1815:A:H4'	24:BA:1817:G:O4'	2.21	0.40
24:BA:1838:C:C4	24:BA:1899:G:C6	3.10	0.40
24:BA:1906:G:N1	24:BA:1907:G:C5	2.90	0.40
24:BA:1944:U:O2'	24:BA:1955:U:C1'	2.68	0.40
24:BA:1955:U:O2'	24:BA:1956:U:P	2.79	0.40
24:BA:1975:G:C2	24:BA:1976:U:C2	3.10	0.40
24:BA:2027:G:C4	24:BA:2037:G:N1	2.88	0.40
24:BA:2031:A:N6	24:BA:2498:C:C1'	2.77	0.40
24:BA:2040:C:O5'	24:BA:2040:C:H6	2.05	0.40
24:BA:2048:G:C2	24:BA:2049:G:C8	3.10	0.40
24:BA:2051:A:N6	24:BA:2614:A:N7	2.70	0.40
24:BA:2091:U:C2'	24:BA:2092:U:OP1	2.69	0.40
24:BA:2253:G:H2'	24:BA:2254:C:O5'	2.20	0.40
24:BA:2280:G:C4	24:BA:2281:C:C5	3.10	0.40
24:BA:2306:C:C5	24:BA:2311:A:N6	2.80	0.40
24:BA:220:G:C4'	24:BA:234:C:H4'	2.21	0.40
24:BA:2392:A:HO2'	24:BA:2393:A:P	2.44	0.40
24:BA:241:A:O4'	24:BA:241:A:P	2.79	0.40
24:BA:2542:A:OP1	24:BA:2542:A:O4'	2.38	0.40
24:BA:2542:A:O4'	24:BA:2542:A:P	2.80	0.40
24:BA:2586:C:C4	24:BA:2587:A:N6	2.87	0.40
24:BA:2607:G:H2'	24:BA:2608:G:C5'	2.35	0.40
24:BA:2680:C:OP1	28:BE:190:GLY:CA	2.66	0.40
24:BA:270(B):A:H4'	24:BA:270(C):C:C6	2.55	0.40
24:BA:2754:U:C6	24:BA:2754:U:H3'	2.56	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2756:U:O2'	24:BA:2757:A:OP2	2.37	0.40
24:BA:286:C:H2'	24:BA:287:C:O4'	2.21	0.40
24:BA:2886:G:H21	24:BA:2887:U:H1'	1.85	0.40
24:BA:2899:G:O6	24:BA:2900:A:N6	2.54	0.40
24:BA:295:G:C8	24:BA:338:G:N2	2.89	0.40
24:BA:459:U:H2'	24:BA:460:A:H8	1.86	0.40
24:BA:463:G:C2	24:BA:467:G:C5	3.09	0.40
24:BA:484:C:C2'	24:BA:485:C:C6	2.83	0.40
24:BA:506:G:O4'	24:BA:506:G:OP2	2.40	0.40
24:BA:541:C:H5''	24:BA:542:C:OP2	2.21	0.40
24:BA:551:G:O4'	24:BA:1220:A:N1	2.54	0.40
24:BA:601:C:C1'	29:BF:104:LYS:NZ	2.83	0.40
24:BA:609(A):G:C5	24:BA:610:C:C5	3.09	0.40
24:BA:618:G:C2'	24:BA:618(A):C:C6	3.01	0.40
24:BA:60:G:N7	24:BA:63:U:O4	2.53	0.40
24:BA:700:G:C2	24:BA:701:G:C8	3.10	0.40
24:BA:70:G:C4'	24:BA:71:A:H5'	2.51	0.40
24:BA:730:C:C2	24:BA:731:C:C5	3.08	0.40
24:BA:748:G:OP2	43:BV:88:ARG:NE	2.54	0.40
24:BA:799:G:C5	24:BA:800:A:N1	2.89	0.40
24:BA:861:A:P	24:BA:862:G:OP2	2.78	0.40
24:BA:848:G:N3	24:BA:933:A:N3	2.68	0.40
24:BA:960:A:H8	24:BA:960:A:O5'	2.04	0.40
24:BA:967:C:O2'	24:BA:968:G:H5'	2.20	0.40
24:BA:987:G:O2'	24:BA:1000:A:C1'	2.58	0.40
25:BB:40:U:C2'	25:BB:41:U:OP1	2.70	0.40
25:BB:37:C:N4	25:BB:44:G:C6	2.89	0.40
25:BB:65:C:C2'	25:BB:66:A:H5'	2.50	0.40
25:BB:73:A:C2'	25:BB:74:U:O5'	2.69	0.40
27:BD:51:VAL:HG11	27:BD:52:ARG:NH1	2.37	0.40
27:BD:85:ASP:OD1	27:BD:87:ASN:O	2.39	0.40
28:BE:14:ILE:O	28:BE:14:ILE:CD1	2.69	0.40
28:BE:186:GLY:O	28:BE:188:VAL:N	2.49	0.40
29:BF:142:TRP:O	29:BF:143:ALA:C	2.58	0.40
29:BF:184:TYR:HB2	29:BF:185:ASP:H	1.68	0.40
29:BF:66:PRO:HG2	29:BF:66:PRO:O	2.21	0.40
30:BG:138:GLN:C	30:BG:140:ILE:N	2.73	0.40
30:BG:153:ARG:C	30:BG:155:MET:SD	3.00	0.40
30:BG:134:GLY:CA	30:BG:156:ASP:HA	2.51	0.40
30:BG:172:LEU:HD12	30:BG:172:LEU:C	2.41	0.40
30:BG:107:LEU:CG	30:BG:177:GLY:O	2.70	0.40
31:BH:159:GLU:OE2	31:BH:163:TYR:HE1	2.05	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:BL:104:VAL:HG11	33:BL:124:ALA:O	2.21	0.40
33:BL:105:LEU:HD23	33:BL:105:LEU:H	1.84	0.40
33:BL:105:LEU:HA	33:BL:124:ALA:HB2	2.03	0.40
34:BM:74:ARG:CZ	34:BM:82:LEU:HD21	2.51	0.40
35:BN:70:LYS:CE	35:BN:104:ARG:HG3	2.44	0.40
35:BN:11:ALA:HA	35:BN:14:THR:HG21	2.02	0.40
35:BN:21:CYS:SG	35:BN:23:ARG:N	2.94	0.40
35:BN:9:GLU:C	35:BN:82:ASN:HB3	2.42	0.40
36:BO:108:LYS:HG2	36:BO:109:GLY:N	2.35	0.40
37:BP:37:LEU:CB	37:BP:38:GLU:OE2	2.69	0.40
37:BP:48:GLU:O	37:BP:52:VAL:HG23	2.21	0.40
24:BA:2690:C:N4	38:BQ:14:SER:CB	2.84	0.40
38:BQ:30:THR:CG2	38:BQ:31:HIS:CE1	3.04	0.40
38:BQ:3:HIS:C	38:BQ:3:HIS:ND1	2.74	0.40
24:BA:2851:A:H1'	38:BQ:61:HIS:NE2	2.36	0.40
38:BQ:97:VAL:O	38:BQ:98:LEU:HG	2.20	0.40
39:BR:28:VAL:CB	39:BR:101:LEU:HG	2.51	0.40
24:BA:2020:A:P	41:BT:27:LEU:HD22	2.62	0.40
41:BT:36:ARG:O	41:BT:40:PHE:CD1	2.75	0.40
24:BA:1156:A:P	41:BT:55:ARG:NH2	2.94	0.40
41:BT:81:HIS:HB3	41:BT:117:GLN:HE22	1.82	0.40
42:BU:38:LEU:H	42:BU:38:LEU:CD2	2.33	0.40
41:BT:40:PHE:CE2	42:BU:84:LYS:HG2	2.56	0.40
42:BU:15:GLU:O	42:BU:98:GLU:OE1	2.39	0.40
43:BV:3:ALA:CB	43:BV:107:LEU:HB3	2.41	0.40
45:BX:9:LYS:HD2	45:BX:110:GLU:CG	2.52	0.40
46:BY:14:LYS:HD3	46:BY:14:LYS:N	2.36	0.40
46:BY:158:PRO:O	46:BY:161:VAL:HG22	2.21	0.40
46:BY:151:HIS:CD2	46:BY:170:THR:H	2.39	0.40
46:BY:50:GLN:C	46:BY:52:SER:N	2.73	0.40
26:BC:100:ILE:CG2	26:BC:126:LYS:HE2	2.51	0.40
26:BC:25:ALA:O	26:BC:26:ALA:C	2.57	0.40
15:AP:58:GLU:C	15:AP:61:GLU:HB2	2.41	0.40
1:AA:159:G:N1	1:AA:163:C:N4	2.70	0.40
24:BA:1582:C:O5'	24:BA:1583:A:H5''	2.21	0.40
33:BL:49:GLY:O	33:BL:50:ASP:OD2	2.39	0.40
1:AA:1170:A:H3'	1:AA:1170:A:C8	2.56	0.40
24:BA:1766:U:C2'	24:BA:1767:C:H5'	2.52	0.40
6:AG:160:GLN:HA	6:AG:160:GLN:OE1	2.20	0.40
14:AO:17:LYS:O	14:AO:18:VAL:O	2.39	0.40
15:AP:12:ASN:OD1	15:AP:12:ASN:O	2.38	0.40
2:A1:30:U:C4	2:A1:31:U:N3	2.90	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:A1:8:U:H2'	2:A1:8:U:O2	2.21	0.40
1:AA:1049:U:O2	1:AA:1201:A:H1'	2.21	0.40
1:AA:1151:A:H1'	12:AM:39:PRO:CB	2.52	0.40
1:AA:1196:U:C5'	1:AA:1197:G:H5'	2.45	0.40
1:AA:1245:A:C6	1:AA:1293:G:N1	2.89	0.40
1:AA:1253:G:H22	1:AA:1285:A:N6	2.19	0.40
1:AA:1273:G:C2'	1:AA:1274:G:H8	2.35	0.40
1:AA:1309:G:C1'	15:AP:74:VAL:HG13	2.51	0.40
1:AA:1338:G:C6	1:AA:1339:A:N6	2.90	0.40
1:AA:1350:A:H2'	1:AA:1351:U:H6	1.86	0.40
1:AA:1395:C:H2'	1:AA:1396:A:O5'	2.21	0.40
1:AA:1431:C:O2'	1:AA:1432:G:C5'	2.69	0.40
1:AA:1477:C:C2	1:AA:1478:C:C5	3.09	0.40
1:AA:222:U:C2	1:AA:223:U:C5	3.09	0.40
1:AA:335:C:H4'	1:AA:1434:A:H4'	2.02	0.40
1:AA:398:C:H2'	1:AA:399:G:C8	2.56	0.40
1:AA:426:G:C2	1:AA:427:U:C2	3.09	0.40
1:AA:464:G:O5'	1:AA:464:G:H8	2.03	0.40
1:AA:477:G:C2	1:AA:478:A:C4	3.09	0.40
1:AA:521:G:P	14:AO:54:LYS:NZ	2.95	0.40
1:AA:528:C:C4'	1:AA:535:A:N6	2.84	0.40
1:AA:938:A:C2'	1:AA:939:G:C5'	2.98	0.40
3:AC:19:G:N1	3:AC:56:C:N4	2.68	0.40
3:AC:37:A:N6	3:AC:38:A:N1	2.70	0.40
3:AC:52:G:C6	3:AC:53:G:C5	3.10	0.40
4:AE:9:GLU:CG	4:AE:10:LEU:N	2.83	0.40
4:AE:163:PHE:CZ	4:AE:187:LEU:N	2.90	0.40
4:AE:167:PRO:CG	4:AE:168:THR:N	2.83	0.40
4:AE:71:VAL:HG22	4:AE:93:VAL:CA	2.52	0.40
5:AF:84:ILE:HA	5:AF:101:LEU:CD1	2.50	0.40
6:AG:122:ARG:HA	6:AG:134:ASP:HB2	2.03	0.40
6:AG:13:ARG:HA	6:AG:32:ALA:HB2	2.02	0.40
6:AG:177:ASP:C	6:AG:179:GLU:N	2.74	0.40
6:AG:58:LEU:HD13	6:AG:58:LEU:O	2.22	0.40
1:AA:402:G:OP1	6:AG:74:GLN:NE2	2.54	0.40
7:AH:79:GLU:OE1	10:AK:105:ARG:HB2	2.22	0.40
9:AJ:42:ILE:HG22	9:AJ:117:ALA:HA	2.04	0.40
10:AK:119:LEU:HB3	10:AK:123:GLU:OE2	2.20	0.40
10:AK:39:LEU:HD13	10:AK:39:LEU:HA	1.71	0.40
1:AA:1148:U:C5'	11:AL:16:ARG:HD2	2.51	0.40
11:AL:16:ARG:HH12	11:AL:64:THR:HG21	1.86	0.40
12:AM:12:ASP:O	12:AM:15:THR:CG2	2.67	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AM:76:ASN:N	12:AM:76:ASN:ND2	2.69	0.40
14:AO:41:ARG:C	14:AO:42:THR:HG22	2.41	0.40
14:AO:6:THR:HG21	14:AO:9:GLN:OE1	2.21	0.40
14:AO:93:LEU:CD2	14:AO:93:LEU:N	2.80	0.40
16:AQ:8:GLU:O	16:AQ:10:ALA:N	2.55	0.40
17:AR:7:GLU:CB	17:AR:10:LYS:HE3	2.45	0.40
17:AR:63:ARG:HH22	17:AR:87:ILE:CD1	2.30	0.40
17:AR:7:GLU:HA	17:AR:10:LYS:CG	2.51	0.40
19:AT:15:MET:HB3	19:AT:18:THR:OG1	2.21	0.40
22:AW:14:LYS:O	22:AW:17:ARG:N	2.54	0.40
22:AW:56:MET:SD	22:AW:56:MET:O	2.78	0.40
48:B1:22:GLU:CD	48:B1:22:GLU:N	2.74	0.40
50:B3:11:PRO:O	50:B3:12:ALA:CB	2.70	0.40
50:B3:65:ASP:CA	50:B3:68:ARG:HH12	2.33	0.40
51:B4:41:PRO:HG2	51:B4:44:THR:OG1	2.20	0.40
53:B6:10:ARG:HB3	53:B6:14:LYS:HD2	2.03	0.40
53:B6:33:ARG:O	53:B6:37:LYS:HG3	2.21	0.40
24:BA:458:G:O2'	53:B6:40:TRP:CZ2	2.67	0.40
53:B6:5:TRP:CD2	53:B6:7:PRO:HD3	2.56	0.40
24:BA:1012:U:H5'	24:BA:1013:C:P	2.61	0.40
24:BA:1023:U:N3	24:BA:1024:G:H1'	2.37	0.40
24:BA:1024:G:H5''	24:BA:1025:G:H5'	1.91	0.40
24:BA:1079:C:H4'	33:BL:132:ARG:HH12	1.87	0.40
24:BA:1174:A:N1	24:BA:1177:A:C5	2.89	0.40
24:BA:119:A:C3'	24:BA:120:U:H5'	2.51	0.40
24:BA:1200:C:C2	24:BA:1201:C:H5	2.39	0.40
24:BA:1328:G:O2'	24:BA:1329:U:H5''	2.21	0.40
24:BA:1332:G:C6	24:BA:1609:A:C6	3.09	0.40
24:BA:1403:C:C2'	24:BA:1404:C:O5'	2.69	0.40
24:BA:1422:G:H4'	24:BA:1493:C:O2'	2.21	0.40
24:BA:1495:A:P	24:BA:1496:A:OP2	2.79	0.40
24:BA:1565:C:C4	24:BA:1567:A:C1'	3.04	0.40
24:BA:1614:A:H5''	24:BA:1615:C:OP2	2.21	0.40
24:BA:1631:A:H2'	24:BA:1632:A:O5'	2.21	0.40
24:BA:1655:A:H2'	24:BA:1656:C:C1'	2.50	0.40
24:BA:1688:U:H3	24:BA:1700:A:C5'	2.34	0.40
24:BA:1695:G:N2	24:BA:1696:G:N9	2.70	0.40
24:BA:1790:C:O2	24:BA:1791:A:N7	2.54	0.40
24:BA:1799:G:C8	27:BD:183:ARG:NH1	2.87	0.40
24:BA:1806:C:H6	24:BA:1806:C:O5'	2.03	0.40
24:BA:1837:C:H1'	24:BA:1928:A:N3	2.36	0.40
24:BA:1845:G:C5	24:BA:1896:G:N1	2.89	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1847:A:O2'	24:BA:1848:A:C8	2.74	0.40
24:BA:1930:G:H2'	24:BA:1968:G:C6	2.56	0.40
24:BA:1940:U:H4'	24:BA:1941:C:OP1	2.21	0.40
24:BA:2040:C:C4	24:BA:2041:U:O4	2.74	0.40
24:BA:2043:C:C2	24:BA:2044:C:C5	3.10	0.40
24:BA:2255:G:C6	24:BA:2256:G:C5	3.10	0.40
24:BA:2285:C:C4'	24:BA:2288:A:N6	2.83	0.40
24:BA:2300:G:C2'	24:BA:2301:C:H5'	2.51	0.40
24:BA:2312:U:HO2'	30:BG:40:ASN:ND2	2.17	0.40
24:BA:2360:A:OP1	54:B7:49:VAL:HG22	2.20	0.40
24:BA:2371:G:H2'	24:BA:2372:G:C1'	2.51	0.40
24:BA:2383:G:N2	24:BA:2384:G:C2	2.89	0.40
24:BA:2457:U:C4	24:BA:2458:G:C2	3.09	0.40
24:BA:251:A:C5	24:BA:252:G:H1'	2.57	0.40
24:BA:2520:C:N4	24:BA:2567:G:C5	2.90	0.40
24:BA:2569:G:O2'	24:BA:2570:G:O5'	2.32	0.40
24:BA:2578:G:N7	28:BE:140:SER:CB	2.84	0.40
24:BA:2509:G:C2	24:BA:2580:U:C2	3.09	0.40
24:BA:2618:G:C4	24:BA:2619:C:C5	3.10	0.40
24:BA:2649:U:C2	24:BA:2650:U:C5	3.09	0.40
24:BA:270(E):G:C6	24:BA:270(F):U:C4	3.10	0.40
24:BA:270(W):G:C5	24:BA:270(X):G:N7	2.88	0.40
24:BA:2718:G:O3'	40:BS:101:PHE:HD1	2.03	0.40
24:BA:2776:A:H2	24:BA:2778:A:H2'	1.81	0.40
24:BA:2865:U:C6	24:BA:2865:U:O5'	2.62	0.40
24:BA:2870:C:O2	24:BA:2871:C:H1'	2.21	0.40
24:BA:2893:G:H2'	24:BA:2894:G:OP2	2.21	0.40
24:BA:292:C:C1'	24:BA:293:U:H3	2.34	0.40
24:BA:392:C:C2	24:BA:393:C:C5	3.09	0.40
24:BA:408:G:C2	24:BA:409:C:C6	3.09	0.40
24:BA:428:A:H3'	24:BA:429:A:C8	2.56	0.40
24:BA:463:G:C2	24:BA:467:G:C6	3.09	0.40
24:BA:514:A:H2'	24:BA:515:A:C5'	2.50	0.40
24:BA:528:A:C8	24:BA:528:A:C3'	3.03	0.40
24:BA:528:A:C8	24:BA:528:A:H3'	2.56	0.40
24:BA:544:C:C2'	24:BA:545:G:H5'	2.52	0.40
24:BA:558:G:O2'	24:BA:559:G:H5'	2.20	0.40
24:BA:5:A:N3	24:BA:6:A:C8	2.89	0.40
24:BA:638:G:H21	24:BA:651:G:H5'	1.86	0.40
24:BA:64:A:H5'	44:BW:73:ARG:CA	2.48	0.40
24:BA:728:G:C4'	24:BA:729:G:C8	3.05	0.40
24:BA:850:C:C2	24:BA:851:U:C6	3.09	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:2:C:OP2	25:BB:2:C:C6	2.74	0.40
25:BB:43:C:H2'	25:BB:44:G:C5'	2.50	0.40
25:BB:7:G:O2'	25:BB:8:U:P	2.78	0.40
27:BD:137:PRO:HG2	27:BD:140:THR:CG2	2.52	0.40
27:BD:173:VAL:O	27:BD:184:LYS:HG3	2.20	0.40
27:BD:261:LYS:C	27:BD:263:ARG:H	2.23	0.40
24:BA:2821:A:OP2	28:BE:110:GLY:O	2.40	0.40
28:BE:118:LYS:HD3	28:BE:119:ARG:H	1.86	0.40
28:BE:119:ARG:HD2	28:BE:156:MET:N	2.29	0.40
28:BE:125:GLY:C	28:BE:135:HIS:O	2.60	0.40
28:BE:54:GLN:CB	28:BE:57:LYS:NZ	2.84	0.40
29:BF:106:ARG:CG	29:BF:107:LYS:HG3	2.49	0.40
29:BF:153:SER:H	29:BF:190:GLU:CG	2.32	0.40
29:BF:51:THR:O	29:BF:52:LYS:CB	2.69	0.40
29:BF:54:ARG:HA	29:BF:56:GLU:OE1	2.21	0.40
29:BF:77:ASP:O	29:BF:77:ASP:CG	2.60	0.40
30:BG:139:LEU:CD1	30:BG:142:PRO:CB	2.94	0.40
30:BG:141:PHE:O	30:BG:143:GLU:N	2.52	0.40
30:BG:172:LEU:HG	30:BG:173:LEU:N	2.37	0.40
30:BG:74:LYS:C	30:BG:76:SER:N	2.72	0.40
30:BG:8:LYS:HE2	30:BG:103:LEU:HD23	2.04	0.40
31:BH:156:ALA:O	31:BH:157:TYR:CD2	2.74	0.40
31:BH:97:ARG:NH1	31:BH:99:VAL:HG22	2.36	0.40
24:BA:1058:G:C2	33:BL:116:ASN:ND2	2.90	0.40
33:BL:75:SER:O	33:BL:78:ILE:HB	2.22	0.40
34:BM:123:TYR:HD2	34:BM:130:HIS:HD2	1.69	0.40
34:BM:36:GLY:HA2	34:BM:47:ALA:C	2.41	0.40
34:BM:57:ALA:HB3	34:BM:124:ALA:CB	2.51	0.40
34:BM:74:ARG:HG2	34:BM:76:SER:OG	2.20	0.40
35:BN:106:LEU:C	35:BN:106:LEU:CD1	2.87	0.40
35:BN:86:ILE:HD13	35:BN:90:GLN:CG	2.50	0.40
35:BN:12:ASP:C	35:BN:94:ARG:HB3	2.42	0.40
24:BA:833:U:O2'	36:BO:49:ARG:HD3	2.20	0.40
36:BO:65:ARG:NH1	36:BO:68:GLN:HE22	2.16	0.40
36:BO:96:THR:O	36:BO:97:PRO:C	2.58	0.40
36:BO:76:LYS:NZ	36:BO:99:LEU:CD1	2.83	0.40
38:BQ:86:ARG:NH2	38:BQ:118:GLU:OE1	2.55	0.40
38:BQ:28:LEU:O	38:BQ:30:THR:N	2.54	0.40
38:BQ:54:LEU:HA	38:BQ:57:ARG:HB2	2.01	0.40
39:BR:11:LYS:CA	39:BR:14:VAL:CG2	2.92	0.40
39:BR:14:VAL:O	39:BR:15:ARG:C	2.60	0.40
41:BT:16:LYS:CD	41:BT:17:ILE:HD13	2.51	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:997:G:C3'	41:BT:92:ARG:NH1	2.84	0.40
42:BU:40:LEU:CD1	42:BU:55:ALA:CA	2.92	0.40
43:BV:78:GLU:OE2	43:BV:99:ARG:C	2.60	0.40
24:BA:1615:C:N3	43:BV:87:PRO:HG3	2.36	0.40
44:BW:25:LYS:HA	44:BW:82:GLN:HA	2.03	0.40
44:BW:6:ASP:CG	44:BW:7:VAL:N	2.75	0.40
46:BY:99:TYR:HD1	46:BY:126:VAL:HG23	1.87	0.40
32:BK:88:ILE:HD11	32:BK:123:LEU:HD22	2.02	0.40
24:BA:2139:C:O2'	24:BA:2140:C:H5'	2.21	0.40
26:BC:175:VAL:C	26:BC:188:ASN:HB3	2.42	0.40
26:BC:52:ARG:NH1	26:BC:52:ARG:CB	2.85	0.40
26:BC:59:ARG:HD3	26:BC:164:ARG:HG2	2.00	0.40
26:BC:68:LEU:C	26:BC:68:LEU:HD23	2.41	0.40
1:AA:1009:G:C2	1:AA:1010:G:C8	3.08	0.40
39:BR:59:LYS:N	39:BR:59:LYS:CD	2.84	0.40
1:AA:1029:G:H21	1:AA:1031:G:H3'	1.86	0.40
24:BA:2106:G:N1	24:BA:2184:G:C5	2.89	0.40
1:AA:457:C:C6	1:AA:457:C:H3'	2.56	0.40
33:BL:59:ILE:HA	33:BL:64:SER:O	2.22	0.40
2:A1:9:U:C2	2:A1:13:U:O4	2.74	0.40
2:A1:52:U:O4'	6:AG:49:ARG:O	2.40	0.40
1:AA:1210:C:H4'	1:AA:1214:C:C4	2.55	0.40
1:AA:1277:C:C5	1:AA:1278:U:O2	2.74	0.40
1:AA:136:C:O2	1:AA:137:C:C6	2.75	0.40
1:AA:1386:G:H2'	1:AA:1387:G:H8	1.86	0.40
1:AA:1397:C:H42	2:A1:46:U:H5	1.69	0.40
1:AA:1459:C:OP1	22:AW:27:LYS:NZ	2.54	0.40
1:AA:1472:U:H6	1:AA:1472:U:O5'	2.04	0.40
1:AA:172:A:N7	1:AA:174:C:C4	2.89	0.40
1:AA:193:C:O2'	1:AA:194:C:C5'	2.69	0.40
1:AA:247:G:C6	1:AA:278:G:C2	3.09	0.40
1:AA:260:G:C2	1:AA:261:U:O2	2.75	0.40
1:AA:260:G:N3	1:AA:261:U:O2	2.54	0.40
1:AA:27:G:P	1:AA:27:G:H8	2.44	0.40
1:AA:551:U:C2	1:AA:552:U:C5	3.09	0.40
1:AA:560:U:N3	1:AA:566:G:O4'	2.54	0.40
1:AA:650:G:C2	1:AA:651:C:C6	3.09	0.40
1:AA:670:G:C6	1:AA:671:G:N7	2.90	0.40
1:AA:673:G:C2	1:AA:674:G:C6	3.10	0.40
1:AA:688:G:N1	1:AA:700:G:C6	2.89	0.40
1:AA:744:C:H2'	1:AA:745:C:H6	1.86	0.40
1:AA:901:A:H2	1:AA:902:G:O2'	2.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:979:C:OP2	1:AA:981:U:N3	2.52	0.40
3:AD:34:G:C2'	3:AD:34:G:N3	2.84	0.40
3:AD:37:A:H3'	3:AD:38:A:C8	2.54	0.40
4:AE:179:LYS:HB3	10:AK:72:PRO:HB3	2.03	0.40
4:AE:80:ILE:CG1	4:AE:208:ILE:HD13	2.51	0.40
4:AE:50:GLU:O	4:AE:53:ARG:HB3	2.21	0.40
5:AF:119:ARG:O	5:AF:120:VAL:C	2.60	0.40
5:AF:123:GLN:O	5:AF:124:ILE:C	2.60	0.40
5:AF:164:ARG:CG	5:AF:165:THR:H	2.34	0.40
5:AF:77:ILE:HD13	5:AF:84:ILE:HB	2.04	0.40
6:AG:106:TYR:O	6:AG:108:LEU:N	2.54	0.40
6:AG:187:ARG:NH2	6:AG:188:LEU:HD21	2.37	0.40
6:AG:57:ARG:HH22	7:AH:107:ARG:HE	1.65	0.40
6:AG:91:SER:OG	6:AG:92:VAL:N	2.54	0.40
7:AH:109:ILE:CG2	7:AH:110:LEU:H	2.32	0.40
7:AH:110:LEU:O	7:AH:111:GLU:C	2.59	0.40
8:AI:3:ARG:O	8:AI:93:SER:CB	2.69	0.40
9:AJ:123:GLU:OE1	9:AJ:134:ALA:N	2.45	0.40
9:AJ:26:PHE:C	9:AJ:26:PHE:CD1	2.92	0.40
9:AJ:36:LYS:O	9:AJ:39:ALA:HB3	2.21	0.40
9:AJ:91:VAL:O	9:AJ:92:SER:O	2.40	0.40
10:AK:70:GLN:HA	10:AK:70:GLN:NE2	2.37	0.40
10:AK:87:SER:HB3	10:AK:93:VAL:N	2.30	0.40
10:AK:88:LYS:HZ3	10:AK:88:LYS:N	2.17	0.40
11:AL:33:PHE:CZ	11:AL:43:ALA:O	2.74	0.40
11:AL:89:ASN:C	11:AL:91:ASP:H	2.23	0.40
11:AL:93:ARG:O	11:AL:95:LYS:N	2.46	0.40
13:AN:14:VAL:HG11	13:AN:35:PRO:HG2	2.02	0.40
15:AP:3:ARG:NH2	30:BG:113:ARG:NE	2.69	0.40
15:AP:91:ARG:HD2	15:AP:96:LEU:HG	2.03	0.40
17:AR:79:ARG:O	17:AR:82:ILE:HB	2.22	0.40
18:AS:3:LYS:CD	18:AS:24:ALA:HB2	2.52	0.40
19:AT:13:ASP:HB3	19:AT:52:LYS:HG2	2.03	0.40
19:AT:68:ARG:N	19:AT:70:ARG:CZ	2.83	0.40
8:AI:99:ALA:HB3	20:AU:31:LEU:HD11	2.01	0.40
1:AA:736:C:C5'	20:AU:72:ARG:HH22	2.02	0.40
21:AV:66:MET:O	21:AV:69:HIS:HD2	2.04	0.40
21:AV:68:GLY:C	21:AV:69:HIS:CG	2.95	0.40
22:AW:23:ARG:O	22:AW:24:LEU:O	2.39	0.40
22:AW:66:ALA:O	22:AW:68:LYS:N	2.55	0.40
22:AW:76:ALA:C	22:AW:78:ALA:N	2.74	0.40
23:AX:3:LYS:HZ2	23:AX:13:ILE:CG2	2.33	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:B1:16:LEU:CD2	48:B1:59:LEU:HB2	2.51	0.40
50:B3:33:VAL:HG13	50:B3:35:VAL:HG23	2.04	0.40
51:B4:4:HIS:CG	51:B4:5:PRO:N	2.88	0.40
52:B5:17:LYS:HE2	52:B5:48:VAL:HG13	2.04	0.40
52:B5:35:GLU:O	52:B5:51:GLU:OE2	2.39	0.40
52:B5:38:LYS:HB3	52:B5:39:TYR:H	1.40	0.40
53:B6:18:PHE:O	53:B6:19:ARG:C	2.59	0.40
24:BA:1024:G:C6	24:BA:1025:G:N7	2.90	0.40
24:BA:1142:U:H2'	24:BA:1142(A):A:O5'	2.21	0.40
24:BA:1180:C:H2'	24:BA:1181:C:C5	2.54	0.40
24:BA:1222:C:N3	24:BA:1227:A:N6	2.70	0.40
24:BA:128:C:N4	24:BA:129:C:N4	2.69	0.40
24:BA:1333:C:N3	24:BA:1334:G:N7	2.69	0.40
24:BA:1367:A:C8	24:BA:1367:A:H3'	2.56	0.40
24:BA:122:G:OP1	24:BA:149:A:O2'	2.39	0.40
24:BA:1545(A):A:H8	24:BA:1545(A):A:P	2.44	0.40
24:BA:1567:A:N6	27:BD:84:TYR:CE1	2.89	0.40
24:BA:1613:G:N7	24:BA:1617:C:C5	2.89	0.40
24:BA:1641:A:H8	24:BA:1641:A:OP2	2.05	0.40
24:BA:1750:G:C4	24:BA:1751:C:C5	3.09	0.40
24:BA:1977:A:O2'	24:BA:1978:A:O5'	2.39	0.40
24:BA:1991:U:C2'	24:BA:1992:G:OP2	2.69	0.40
24:BA:2023:G:C6	24:BA:2024:G:C6	3.10	0.40
24:BA:21:A:H2'	24:BA:22:C:H6	1.86	0.40
24:BA:2208:U:O3'	27:BD:151:LYS:NZ	2.53	0.40
24:BA:219:G:O2'	24:BA:220:G:H5'	2.22	0.40
24:BA:2216:G:C2	24:BA:2217:G:C8	3.09	0.40
24:BA:2259:G:C4	24:BA:2427:C:N4	2.90	0.40
24:BA:2285:C:OP2	52:B5:27:LYS:HE3	2.21	0.40
24:BA:2287:A:N7	24:BA:2289:G:C4	2.88	0.40
24:BA:2339:G:H2'	24:BA:2340:G:H8	1.87	0.40
24:BA:2345:G:H21	24:BA:2381:C:C2'	2.34	0.40
24:BA:2458:G:C5	24:BA:2490:G:C6	3.09	0.40
24:BA:2519:U:C4'	24:BA:2520:C:OP1	2.68	0.40
24:BA:2556:C:H2'	24:BA:2557:G:C4'	2.50	0.40
24:BA:2574:G:O2'	28:BE:143:ASN:CB	2.69	0.40
24:BA:2596:U:C5	24:BA:2597:G:C6	3.10	0.40
24:BA:2599:G:H2'	24:BA:2600:A:H8	1.87	0.40
24:BA:2639:A:N3	24:BA:2778:A:C2	2.89	0.40
24:BA:2737:G:N3	24:BA:2738:A:C8	2.89	0.40
24:BA:1051:G:C4'	24:BA:2752:C:O4'	2.68	0.40
24:BA:2782:G:C2	24:BA:2783:G:C5	3.10	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2808:U:H5''	24:BA:2809:A:OP2	2.21	0.40
24:BA:2857:G:N2	24:BA:2861:G:C4	2.90	0.40
24:BA:2881:C:C2	24:BA:2882:A:C8	3.09	0.40
24:BA:298:G:H1	24:BA:338:G:C4'	2.34	0.40
24:BA:335:C:C2	24:BA:336:C:C5	3.10	0.40
24:BA:322:A:H1'	24:BA:341:G:C8	2.57	0.40
24:BA:447:A:C2	24:BA:473:G:C8	3.09	0.40
24:BA:573:G:O3'	24:BA:576:U:O4	2.39	0.40
24:BA:613:U:C5	24:BA:614:U:C2	3.09	0.40
24:BA:623:G:N7	24:BA:624:C:C5	2.90	0.40
24:BA:64:A:H4'	44:BW:73:ARG:N	2.37	0.40
24:BA:705:A:N6	24:BA:727:A:C1'	2.84	0.40
24:BA:718:A:H8	24:BA:719:C:C6	2.38	0.40
24:BA:784:A:OP1	24:BA:2587:A:O2'	2.37	0.40
24:BA:930:U:C3'	24:BA:930:U:C6	3.05	0.40
24:BA:932:G:N2	24:BA:933:A:C2	2.89	0.40
24:BA:939:G:H2'	24:BA:940:G:O5'	2.21	0.40
25:BB:16:G:C6	25:BB:69:G:C2	3.09	0.40
24:BA:2209:C:O5'	27:BD:151:LYS:HD2	2.21	0.40
27:BD:147:LEU:CD2	27:BD:154:LYS:HG3	2.49	0.40
27:BD:134:ARG:N	27:BD:168:ARG:HH12	2.18	0.40
27:BD:131:LEU:C	27:BD:190:TYR:CE2	2.94	0.40
27:BD:8:PRO:CG	27:BD:26:LYS:HG3	2.46	0.40
27:BD:276:LYS:HD2	27:BD:276:LYS:OXT	2.21	0.40
27:BD:29:PRO:HB2	27:BD:31:LYS:HD2	2.02	0.40
27:BD:40:THR:CG2	27:BD:43:ARG:NE	2.85	0.40
27:BD:5:LYS:CD	27:BD:31:LYS:NZ	2.84	0.40
28:BE:118:LYS:NZ	28:BE:119:ARG:N	2.69	0.40
28:BE:185:LYS:O	28:BE:185:LYS:HG2	2.19	0.40
29:BF:113:ALA:HB1	29:BF:187:VAL:HG13	2.02	0.40
29:BF:12:LEU:HD22	29:BF:128:ALA:CA	2.52	0.40
30:BG:4:ASP:CA	30:BG:7:LEU:HB2	2.46	0.40
30:BG:90:LEU:C	30:BG:90:LEU:HD13	2.41	0.40
31:BH:152:ARG:O	31:BH:162:ILE:HG22	2.21	0.40
31:BH:31:GLY:C	31:BH:33:LEU:N	2.73	0.40
24:BA:2198:A:N7	32:BK:29:TYR:O	2.55	0.40
33:BL:17:ALA:O	33:BL:18:THR:CB	2.70	0.40
33:BL:71:THR:HB	33:BL:111:LYS:CE	2.51	0.40
34:BM:100:GLU:HB3	34:BM:104:LYS:HE3	2.03	0.40
34:BM:54:VAL:HA	34:BM:130:HIS:HE1	1.86	0.40
34:BM:91:LEU:HD23	34:BM:98:VAL:CG2	2.40	0.40
35:BN:49:ARG:O	35:BN:50:GLY:O	2.40	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2684:U:O2'	35:BN:67:LYS:CD	2.69	0.40
36:BO:32:THR:OG1	36:BO:33:ARG:N	2.53	0.40
37:BP:110:THR:O	37:BP:111:GLU:CG	2.70	0.40
37:BP:35:VAL:CG1	37:BP:130:LYS:O	2.66	0.40
3:AB:54:U:OP1	37:BP:60:ARG:HD3	2.21	0.40
37:BP:91:GLU:N	37:BP:93:TYR:OH	2.55	0.40
37:BP:68:ILE:HD13	37:BP:97:VAL:HG13	2.02	0.40
37:BP:40:ALA:O	37:BP:97:VAL:O	2.39	0.40
38:BQ:79:LEU:CD2	38:BQ:80:PHE:HA	2.48	0.40
38:BQ:45:ARG:HB2	38:BQ:97:VAL:CG2	2.51	0.40
39:BR:10:ARG:O	39:BR:11:LYS:C	2.60	0.40
39:BR:14:VAL:O	39:BR:18:ILE:CD1	2.69	0.40
39:BR:28:VAL:CG2	39:BR:101:LEU:HG	2.51	0.40
41:BT:61:TRP:O	41:BT:63:VAL:N	2.55	0.40
42:BU:58:VAL:HG12	42:BU:59:ALA:N	2.37	0.40
43:BV:103:ILE:O	43:BV:103:ILE:HG12	2.21	0.40
43:BV:68:ARG:HB2	43:BV:110:LYS:O	2.22	0.40
43:BV:30:GLU:OE2	43:BV:31:GLU:N	2.54	0.40
44:BW:33:LYS:HZ2	44:BW:33:LYS:HB2	1.86	0.40
46:BY:111:VAL:C	46:BY:113:ALA:N	2.72	0.40
46:BY:17:ALA:O	46:BY:18:LEU:C	2.60	0.40
46:BY:43:GLU:O	46:BY:46:LYS:N	2.54	0.40
47:BZ:75:LEU:H	47:BZ:75:LEU:HD12	1.86	0.40
32:BK:125:GLU:CA	32:BK:142:VAL:O	2.70	0.40
3:AD:9:A:N6	3:AD:22:G:N7	2.69	0.40
3:AD:57:G:C8	3:AD:57:G:OP2	2.75	0.40
3:AD:64:A:O2'	3:AD:65:G:H5'	2.21	0.40
26:BC:7:TYR:HE2	26:BC:11:LEU:HD22	1.85	0.40
26:BC:176:GLY:HA3	26:BC:185:LEU:HD22	2.04	0.40
26:BC:20:TYR:O	26:BC:21:THR:HG23	2.21	0.40
26:BC:75:LEU:HD22	26:BC:110:PHE:CE2	2.54	0.40
24:BA:1487:G:C2'	24:BA:1488:G:H5'	2.52	0.40
1:AA:341:C:C2	1:AA:342:C:C5	3.10	0.40
24:BA:1579:A:H2'	24:BA:1580:A:O4'	2.21	0.40
1:AA:491:G:C2'	1:AA:492:G:H5'	2.51	0.40
24:BA:491:G:C6	24:BA:492:A:C6	3.09	0.40
32:BK:47:LEU:O	32:BK:51:ILE:HG13	2.22	0.40
1:AA:77:C:O5'	1:AA:77:C:H6	2.03	0.40
1:AA:1121:U:H6	1:AA:1121:U:O5'	2.04	0.40
1:AA:1532:U:C2	2:A1:33:U:O2	2.75	0.40
2:A1:50:U:O2'	2:A1:51:U:P	2.79	0.40
1:AA:104:G:C2	1:AA:105:G:C8	3.09	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1113:C:C5	1:AA:1113:C:OP2	2.75	0.40
1:AA:1125:U:OP2	1:AA:1125:U:H4'	2.20	0.40
1:AA:1226:C:OP2	15:AP:103:THR:CB	2.69	0.40
1:AA:1287:A:H61	1:AA:1371:G:C5'	2.34	0.40
1:AA:1328:C:N4	1:AA:1329:A:N6	2.70	0.40
1:AA:1331:G:O4'	1:AA:1331:G:OP1	2.40	0.40
1:AA:1413:A:O2'	1:AA:1414:U:O5'	2.40	0.40
1:AA:335:C:H4'	1:AA:1434:A:C4'	2.52	0.40
1:AA:1489:G:C2	1:AA:1490:C:C2	3.10	0.40
1:AA:175:C:C2	1:AA:176:C:C5	3.09	0.40
1:AA:186(B):C:C2	1:AA:186(C):G:H8	2.40	0.40
1:AA:189:U:C2	19:AT:72:ARG:NH2	2.85	0.40
1:AA:273:A:C6	1:AA:274:A:C5	3.10	0.40
1:AA:286:G:C6	1:AA:287:U:C5	3.09	0.40
1:AA:32:A:OP1	1:AA:398:C:H1'	2.20	0.40
1:AA:432:A:N7	1:AA:433:C:C4	2.90	0.40
1:AA:602:A:C6	1:AA:603:U:C4	3.10	0.40
1:AA:609:A:O2'	1:AA:610:G:H5'	2.21	0.40
1:AA:634:C:H2'	1:AA:635:G:H8	1.86	0.40
1:AA:697:U:H3'	1:AA:698:G:H8	1.87	0.40
1:AA:698:G:N2	1:AA:699:C:C2	2.89	0.40
1:AA:803:G:C6	1:AA:804:U:C4	3.10	0.40
1:AA:818:G:O2'	1:AA:819:A:P	2.80	0.40
1:AA:867:G:C2	1:AA:868:C:C5	3.09	0.40
1:AA:87:A:C8	1:AA:88:C:C6	3.09	0.40
1:AA:87:A:N7	1:AA:88:C:C2	2.89	0.40
1:AA:894:G:C6	1:AA:895:G:N7	2.89	0.40
1:AA:89:U:N3	1:AA:90:C:C5	2.90	0.40
1:AA:899:C:N3	1:AA:900:A:C2	2.90	0.40
1:AA:901:A:HO2'	1:AA:902:G:P	2.44	0.40
1:AA:934:C:H5	1:AA:1344:C:C2	2.39	0.40
1:AA:93:U:O2	1:AA:95:G:N7	2.54	0.40
1:AA:970:C:H42	15:AP:126:LYS:HZ1	1.68	0.40
3:AB:55:U:H5''	46:BY:178:GLU:OE2	2.21	0.40
4:AE:11:LEU:N	4:AE:11:LEU:HD23	2.36	0.40
4:AE:68:ILE:HG23	4:AE:161:ALA:O	2.22	0.40
4:AE:165:VAL:CG2	4:AE:166:ASP:H	2.16	0.40
4:AE:219:VAL:O	4:AE:223:ILE:CD1	2.69	0.40
5:AF:48:TYR:O	5:AF:51:GLY:N	2.53	0.40
5:AF:52:LEU:O	5:AF:115:LEU:HD21	2.21	0.40
7:AH:84:PHE:CB	7:AH:134:ALA:HA	2.52	0.40
7:AH:31:LEU:HB2	7:AH:129:ILE:HG23	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AI:29:ALA:O	8:AI:32:ASN:N	2.54	0.40
8:AI:52:ILE:HG21	8:AI:87:ARG:HH12	1.86	0.40
1:AA:1298:C:C6	9:AJ:114:ARG:HD3	2.52	0.40
9:AJ:125:MET:O	9:AJ:127:ALA:N	2.55	0.40
9:AJ:143:ARG:HD2	9:AJ:144:MET:N	2.18	0.40
9:AJ:21:VAL:HG23	9:AJ:22:LEU:HD23	2.03	0.40
9:AJ:27:ILE:CG1	9:AJ:43:PHE:CD1	2.99	0.40
9:AJ:6:ARG:CA	9:AJ:6:ARG:CZ	3.00	0.40
9:AJ:90:GLU:N	9:AJ:90:GLU:OE2	2.54	0.40
10:AK:100:ILE:CB	10:AK:125:ARG:HH21	2.33	0.40
10:AK:29:SER:HB3	10:AK:32:LYS:HZ3	1.84	0.40
10:AK:98:LYS:HZ2	10:AK:98:LYS:CA	2.32	0.40
12:AM:4:ILE:HG22	12:AM:4:ILE:O	2.21	0.40
12:AM:27:ALA:HB1	12:AM:74:ILE:CD1	2.52	0.40
13:AN:116:HIS:O	13:AN:117:ASN:CB	2.69	0.40
13:AN:57:THR:O	13:AN:58:PRO:C	2.58	0.40
14:AO:34:ARG:CG	14:AO:105:TYR:CE1	3.05	0.40
1:AA:363:A:C4	14:AO:31:PRO:HD2	2.57	0.40
14:AO:54:LYS:HB3	14:AO:70:ILE:CB	2.38	0.40
1:AA:1228:C:O2'	15:AP:116:THR:HA	2.22	0.40
15:AP:13:LYS:HA	15:AP:44:ARG:HH21	1.87	0.40
15:AP:26:GLY:H	15:AP:29:ARG:HB2	1.86	0.40
15:AP:36:LYS:CD	15:AP:59:TYR:HE1	2.35	0.40
15:AP:70:LEU:O	15:AP:73:GLU:HB3	2.21	0.40
15:AP:77:ASN:HA	15:AP:80:ARG:CG	2.51	0.40
16:AQ:58:LYS:HD2	16:AQ:59:ALA:O	2.21	0.40
17:AR:36:ILE:HD11	17:AR:60:VAL:HA	2.02	0.40
1:AA:760:G:N1	19:AT:105:ALA:OXT	2.40	0.40
20:AU:42:ARG:C	20:AU:43:PHE:CD1	2.95	0.40
20:AU:45:SER:CA	20:AU:51:LEU:HD21	2.52	0.40
20:AU:62:GLU:O	20:AU:64:ARG:N	2.55	0.40
22:AW:24:LEU:O	22:AW:25:ARG:C	2.58	0.40
48:B1:31:ARG:HG2	48:B1:31:ARG:H	1.62	0.40
50:B3:9:LEU:HD22	50:B3:11:PRO:CG	2.52	0.40
24:BA:398:G:OP2	50:B3:59:PHE:HE2	2.04	0.40
51:B4:35:GLU:OE2	51:B4:51:TYR:CZ	2.74	0.40
24:BA:2057:A:H1'	51:B4:4:HIS:O	2.21	0.40
53:B6:43:THR:HA	53:B6:46:VAL:HB	2.03	0.40
54:B7:51:ALA:O	54:B7:53:PRO:HD2	2.22	0.40
54:B7:5:LYS:HD2	54:B7:63:PRO:CG	2.51	0.40
24:BA:1099:G:H2'	24:BA:1099:G:N3	2.36	0.40
24:BA:1048:A:P	24:BA:1109:C:H42	2.45	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:1131:G:N2	34:BM:72:TYR:CZ	2.89	0.40
24:BA:1169:G:C5	24:BA:1170:G:C8	3.10	0.40
24:BA:1274:A:O2'	24:BA:1275:A:H5'	2.21	0.40
24:BA:1438:U:H3	24:BA:1553:A:H62	1.60	0.40
24:BA:1471:A:O2'	24:BA:1472:A:H5'	2.20	0.40
24:BA:1641:A:N6	24:BA:1642:G:C2	2.89	0.40
24:BA:1666:G:N7	24:BA:1667:G:C8	2.90	0.40
24:BA:1668:A:N7	24:BA:1674:G:N3	2.70	0.40
1:AA:702:A:N6	24:BA:1848:A:C2	2.89	0.40
24:BA:1859:A:C2	24:BA:1884:A:O2'	2.69	0.40
24:BA:1902:C:H2'	24:BA:1903:G:O4'	2.22	0.40
24:BA:1923:U:H2'	24:BA:1924:C:C5	2.57	0.40
24:BA:1949:G:C2	24:BA:1958:C:N3	2.90	0.40
24:BA:1964:G:OP1	24:BA:1964:G:H8	2.02	0.40
24:BA:1996:C:O2	24:BA:1997:G:C4'	2.65	0.40
24:BA:2051:A:C6	24:BA:2614:A:N7	2.89	0.40
24:BA:2287:A:H2	24:BA:2346:A:H61	1.69	0.40
24:BA:231:C:N4	24:BA:232:G:H22	2.09	0.40
24:BA:234:C:O2'	24:BA:235:U:H5'	2.21	0.40
24:BA:2358:G:N2	24:BA:2359:C:O4'	2.54	0.40
24:BA:2371:G:N2	24:BA:2372:G:N1	2.70	0.40
24:BA:2440:C:C2'	24:BA:2441:C:O5'	2.67	0.40
24:BA:2468:G:C6	24:BA:2481:G:C4	3.10	0.40
24:BA:2485:G:HO2'	24:BA:2486:G:H5'	1.85	0.40
24:BA:2458:G:C5	24:BA:2490:G:C2	3.10	0.40
24:BA:2578:G:O2'	24:BA:2579:C:P	2.79	0.40
24:BA:2600:A:C2	24:BA:2601:C:C4	3.10	0.40
24:BA:2644:G:C6	24:BA:2645:G:N2	2.89	0.40
24:BA:270(Z):U:O4	24:BA:271(C):U:N1	2.54	0.40
24:BA:2737:G:C4	24:BA:2738:A:C8	3.09	0.40
24:BA:2792:G:C2	24:BA:2793:G:N7	2.89	0.40
24:BA:2848:G:N2	24:BA:2849:U:N3	2.55	0.40
24:BA:1750:G:O2'	24:BA:2860:A:C2	2.67	0.40
24:BA:2864:G:C4	24:BA:2865:U:C4	3.10	0.40
24:BA:287:C:C2'	24:BA:287:C:O2	2.65	0.40
24:BA:412:A:C6	24:BA:413:C:C2	3.09	0.40
24:BA:508:G:O2'	24:BA:509:C:C5'	2.61	0.40
24:BA:570:G:H22	24:BA:2498:C:C2'	2.35	0.40
24:BA:624:C:C4'	24:BA:624:C:H6	2.34	0.40
24:BA:631:A:H1'	24:BA:2416:C:H5'	2.03	0.40
24:BA:66:C:C4	24:BA:67:U:C4	3.10	0.40
24:BA:769:G:C4	24:BA:770:G:C8	3.10	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:771:G:N2	24:BA:772:C:C2	2.89	0.40
24:BA:778:G:N2	24:BA:787:U:N1	2.69	0.40
24:BA:677:A:N6	24:BA:802:A:N7	2.70	0.40
25:BB:4:C:C5	25:BB:5:C:C5	3.09	0.40
27:BD:21:PHE:C	27:BD:205:VAL:HG13	2.41	0.40
27:BD:208:LYS:HB3	27:BD:211:ARG:HG3	2.02	0.40
27:BD:217:ARG:HG3	27:BD:218:ARG:N	2.34	0.40
27:BD:245:PRO:O	27:BD:252:TRP:CH2	2.74	0.40
27:BD:257:LEU:O	27:BD:258:LYS:O	2.40	0.40
24:BA:1675:C:C4	28:BE:128:SER:CB	3.02	0.40
28:BE:148:GLY:C	28:BE:149:ARG:CG	2.90	0.40
29:BF:75:HIS:CE1	29:BF:77:ASP:O	2.75	0.40
30:BG:115:ARG:C	30:BG:117:PHE:H	2.25	0.40
30:BG:165:THR:HG22	30:BG:166:ASP:N	2.37	0.40
30:BG:49:ASP:H	30:BG:53:LEU:CD1	2.34	0.40
31:BH:102:ALA:HA	31:BH:115:VAL:C	2.42	0.40
31:BH:35:VAL:HB	31:BH:72:ILE:HG23	2.02	0.40
31:BH:7:LEU:CG	31:BH:65:HIS:NE2	2.85	0.40
31:BH:7:LEU:HB3	31:BH:65:HIS:CE1	2.56	0.40
33:BL:87:GLY:HA2	33:BL:134:MET:SD	2.62	0.40
33:BL:78:ILE:HD11	33:BL:127:ILE:HA	2.02	0.40
34:BM:126:PRO:HG2	34:BM:128:HIS:ND1	2.36	0.40
34:BM:7:LYS:CE	34:BM:39:ARG:HH22	2.31	0.40
35:BN:24:VAL:H	35:BN:30:ALA:HB1	1.85	0.40
37:BP:135:ASP:O	37:BP:136:ALA:HB2	2.22	0.40
38:BQ:28:LEU:C	38:BQ:30:THR:N	2.75	0.40
39:BR:105:ALA:O	39:BR:108:GLY:CA	2.70	0.40
39:BR:3:ARG:N	39:BR:3:ARG:CD	2.85	0.40
39:BR:65:VAL:HG22	39:BR:66:ALA:H	1.86	0.40
39:BR:81:GLY:C	39:BR:82:ILE:HG12	2.40	0.40
41:BT:108:GLU:HA	41:BT:111:GLU:HG2	2.02	0.40
41:BT:44:ASN:HA	41:BT:47:TYR:CG	2.56	0.40
41:BT:55:ARG:HA	41:BT:58:ARG:CB	2.51	0.40
41:BT:74:LEU:HB3	41:BT:78:THR:HB	1.99	0.40
42:BU:22:VAL:HG13	42:BU:23:GLU:H	1.87	0.40
41:BT:47:TYR:HE2	42:BU:75:PHE:C	2.25	0.40
44:BW:15:GLU:O	44:BW:18:TYR:CB	2.69	0.40
44:BW:58:HIS:NE2	44:BW:77:LYS:CE	2.85	0.40
44:BW:65:ARG:HA	44:BW:70:LEU:HG	2.04	0.40
46:BY:110:GLY:CA	46:BY:144:LEU:CB	2.95	0.40
46:BY:6:LYS:HA	46:BY:37:VAL:HA	2.04	0.40
47:BZ:19:LYS:O	47:BZ:20:ARG:CD	2.62	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:BA:2356:C:OP1	47:BZ:24:LYS:HD3	2.22	0.40
32:BK:122:GLU:O	32:BK:123:LEU:CB	2.69	0.40
32:BK:58:LEU:CA	32:BK:61:ARG:HG2	2.50	0.40
24:BA:2157:G:O2'	24:BA:2158:A:P	2.79	0.40
26:BC:97:GLU:CB	26:BC:100:ILE:HD12	2.51	0.40
26:BC:86:ALA:CB	26:BC:149:ILE:HG23	2.45	0.40
26:BC:160:ARG:C	26:BC:161:ILE:HG23	2.42	0.40
26:BC:52:ARG:HG3	26:BC:53:ARG:N	2.37	0.40
26:BC:68:LEU:CG	26:BC:69:GLY:H	2.35	0.40
1:AA:160:A:N1	1:AA:346:G:O6	2.55	0.40
24:BA:441:U:H6	24:BA:441:U:O5'	2.05	0.40
24:BA:2189:U:H2'	24:BA:2190:G:H8	1.86	0.40
24:BA:54:G:N2	24:BA:55:G:C4	2.89	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:BB:0:A:OP1	25:BB:0:A:OP1[15_545]	2.18	0.02

5.3 Torsion angles

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	AE	232/256 (91%)	114 (49%)	42 (18%)	76 (33%)	0	0
5	AF	204/239 (85%)	107 (52%)	46 (22%)	51 (25%)	0	2
6	AG	206/209 (99%)	96 (47%)	57 (28%)	53 (26%)	0	2
7	AH	148/162 (91%)	93 (63%)	38 (26%)	17 (12%)	1	15
8	AI	99/101 (98%)	58 (59%)	19 (19%)	22 (22%)	0	3
9	AJ	153/156 (98%)	73 (48%)	45 (29%)	35 (23%)	0	3
10	AK	136/138 (99%)	68 (50%)	35 (26%)	33 (24%)	0	2

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
11	AL	125/128 (98%)	62 (50%)	33 (26%)	30 (24%)	0	3
12	AM	96/105 (91%)	52 (54%)	20 (21%)	24 (25%)	0	2
13	AN	117/129 (91%)	65 (56%)	29 (25%)	23 (20%)	0	4
14	AO	122/132 (92%)	50 (41%)	30 (25%)	42 (34%)	0	0
15	AP	123/126 (98%)	56 (46%)	34 (28%)	33 (27%)	0	2
16	AQ	58/61 (95%)	24 (41%)	16 (28%)	18 (31%)	0	1
17	AR	86/89 (97%)	36 (42%)	35 (41%)	15 (17%)	0	6
18	AS	81/88 (92%)	42 (52%)	24 (30%)	15 (18%)	0	5
19	AT	102/105 (97%)	62 (61%)	23 (22%)	17 (17%)	0	7
20	AU	71/88 (81%)	26 (37%)	26 (37%)	19 (27%)	0	2
21	AV	78/93 (84%)	32 (41%)	23 (30%)	23 (30%)	0	1
22	AW	97/106 (92%)	38 (39%)	32 (33%)	27 (28%)	0	1
23	AX	22/27 (82%)	9 (41%)	6 (27%)	7 (32%)	0	1
26	BC	226/229 (99%)	155 (69%)	41 (18%)	30 (13%)	0	12
27	BD	270/276 (98%)	125 (46%)	59 (22%)	86 (32%)	0	1
28	BE	204/206 (99%)	117 (57%)	31 (15%)	56 (28%)	0	1
29	BF	206/210 (98%)	109 (53%)	46 (22%)	51 (25%)	0	2
30	BG	180/182 (99%)	79 (44%)	47 (26%)	54 (30%)	0	1
31	BH	172/180 (96%)	80 (46%)	46 (27%)	46 (27%)	0	2
32	BK	146/148 (99%)	91 (62%)	30 (20%)	25 (17%)	0	6
33	BL	136/147 (92%)	69 (51%)	38 (28%)	29 (21%)	0	4
34	BM	137/140 (98%)	64 (47%)	28 (20%)	45 (33%)	0	0
35	BN	120/122 (98%)	59 (49%)	23 (19%)	38 (32%)	0	1
36	BO	143/150 (95%)	57 (40%)	36 (25%)	50 (35%)	0	0
37	BP	134/141 (95%)	49 (37%)	33 (25%)	52 (39%)	0	0
38	BQ	115/118 (98%)	57 (50%)	39 (34%)	19 (16%)	0	7
39	BR	108/112 (96%)	48 (44%)	29 (27%)	31 (29%)	0	1
40	BS	115/146 (79%)	52 (45%)	26 (23%)	37 (32%)	0	1
41	BT	115/118 (98%)	35 (30%)	50 (44%)	30 (26%)	0	2
42	BU	99/101 (98%)	52 (52%)	19 (19%)	28 (28%)	0	1
43	BV	108/113 (96%)	63 (58%)	24 (22%)	21 (19%)	0	5

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
44	BW	92/96 (96%)	57 (62%)	16 (17%)	19 (21%)	0	4
45	BX	108/110 (98%)	43 (40%)	32 (30%)	33 (31%)	0	1
46	BY	178/206 (86%)	95 (53%)	44 (25%)	39 (22%)	0	3
47	BZ	83/85 (98%)	52 (63%)	21 (25%)	10 (12%)	1	14
48	B1	65/67 (97%)	36 (55%)	20 (31%)	9 (14%)	0	11
49	B2	57/60 (95%)	34 (60%)	8 (14%)	15 (26%)	0	2
50	B3	69/71 (97%)	23 (33%)	16 (23%)	30 (44%)	0	0
51	B4	55/60 (92%)	14 (26%)	19 (34%)	22 (40%)	0	0
52	B5	47/54 (87%)	14 (30%)	7 (15%)	26 (55%)	0	0
53	B6	47/49 (96%)	20 (43%)	12 (26%)	15 (32%)	0	1
54	B7	62/65 (95%)	23 (37%)	18 (29%)	21 (34%)	0	0
55	B8	35/37 (95%)	20 (57%)	5 (14%)	10 (29%)	0	1
All	All	5988/6337 (94%)	2955 (49%)	1476 (25%)	1557 (26%)	0	2

All (1557) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	AE	8	LYS
4	AE	11	LEU
4	AE	13	ALA
4	AE	15	VAL
4	AE	16	HIS
4	AE	17	PHE
4	AE	22	LYS
4	AE	26	PRO
4	AE	37	ASN
4	AE	42	ILE
4	AE	44	LEU
4	AE	45	GLN
4	AE	76	GLN
4	AE	77	ALA
4	AE	78	GLN
4	AE	97	TRP
4	AE	104	ASN
4	AE	109	SER
4	AE	122	PHE
4	AE	124	SER
4	AE	127	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	AE	131	PRO
4	AE	147	LYS
4	AE	153	ARG
4	AE	154	LEU
4	AE	155	LEU
4	AE	161	ALA
4	AE	165	VAL
4	AE	168	THR
4	AE	169	LYS
4	AE	171	ALA
4	AE	172	ILE
4	AE	181	PHE
4	AE	191	ASP
4	AE	194	PRO
4	AE	195	ASP
4	AE	200	ILE
4	AE	201	ILE
4	AE	204	ASN
4	AE	207	ALA
4	AE	211	ILE
4	AE	226	ARG
4	AE	230	VAL
4	AE	232	PRO
4	AE	236	TYR
5	AF	4	LYS
5	AF	12	LEU
5	AF	14	ILE
5	AF	18	TRP
5	AF	24	ALA
5	AF	28	GLN
5	AF	39	ILE
5	AF	43	LEU
5	AF	52	LEU
5	AF	53	ALA
5	AF	64	VAL
5	AF	65	ALA
5	AF	79	ARG
5	AF	83	ARG
5	AF	84	ILE
5	AF	95	THR
5	AF	97	LYS
5	AF	98	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	AF	119	ARG
5	AF	129	ALA
5	AF	157	ILE
5	AF	160	ALA
5	AF	176	HIS
5	AF	177	THR
5	AF	179	ARG
5	AF	191	THR
5	AF	192	THR
6	AG	3	ARG
6	AG	17	VAL
6	AG	18	LYS
6	AG	21	LEU
6	AG	29	PRO
6	AG	30	LYS
6	AG	31	CYS
6	AG	48	ALA
6	AG	56	VAL
6	AG	71	SER
6	AG	86	LYS
6	AG	88	VAL
6	AG	99	SER
6	AG	109	GLY
6	AG	131	ARG
6	AG	142	PRO
6	AG	148	VAL
6	AG	150	GLU
6	AG	151	LYS
6	AG	154	ASN
6	AG	166	LYS
6	AG	168	ARG
6	AG	170	VAL
6	AG	179	GLU
6	AG	191	ARG
6	AG	195	ALA
6	AG	198	VAL
6	AG	199	ASN
7	AH	12	LEU
7	AH	55	VAL
7	AH	75	THR
7	AH	128	PRO
7	AH	144	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	AI	11	ASN
8	AI	16	GLN
8	AI	27	GLN
8	AI	72	VAL
8	AI	81	ILE
8	AI	82	ARG
8	AI	84	ASN
8	AI	85	VAL
8	AI	95	GLU
8	AI	97	PHE
9	AJ	4	ARG
9	AJ	8	GLU
9	AJ	14	PRO
9	AJ	17	VAL
9	AJ	31	MET
9	AJ	35	LYS
9	AJ	37	ASN
9	AJ	71	PRO
9	AJ	91	VAL
9	AJ	111	ARG
9	AJ	134	ALA
9	AJ	142	GLU
10	AK	6	ILE
10	AK	13	ILE
10	AK	29	SER
10	AK	30	ARG
10	AK	63	LEU
10	AK	74	PRO
10	AK	75	ARG
10	AK	76	PRO
10	AK	77	GLU
10	AK	79	VAL
10	AK	103	VAL
10	AK	105	ARG
10	AK	115	SER
10	AK	121	ASP
10	AK	129	VAL
11	AL	29	ASN
11	AL	33	PHE
11	AL	44	VAL
11	AL	70	LYS
11	AL	98	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	AL	109	VAL
11	AL	116	LYS
11	AL	118	LYS
12	AM	34	VAL
12	AM	36	GLY
12	AM	39	PRO
12	AM	40	LEU
12	AM	55	LYS
12	AM	56	HIS
12	AM	60	ARG
12	AM	72	VAL
12	AM	79	ARG
12	AM	80	LYS
12	AM	90	LEU
13	AN	14	VAL
13	AN	15	ALA
13	AN	27	ASN
13	AN	39	PRO
13	AN	74	ALA
13	AN	78	GLN
13	AN	106	LYS
13	AN	113	PRO
13	AN	116	HIS
14	AO	6	THR
14	AO	7	ILE
14	AO	18	VAL
14	AO	19	ARG
14	AO	22	SER
14	AO	28	LYS
14	AO	30	ALA
14	AO	46	LYS
14	AO	48	PRO
14	AO	51	ALA
14	AO	62	SER
14	AO	66	VAL
14	AO	83	VAL
14	AO	92	ASP
14	AO	101	VAL
14	AO	110	VAL
14	AO	116	SER
14	AO	127	GLU
15	AP	11	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
15	AP	12	ASN
15	AP	14	ARG
15	AP	59	TYR
15	AP	84	ILE
15	AP	101	GLN
15	AP	107	ALA
15	AP	121	LYS
15	AP	124	PRO
16	AQ	12	ARG
16	AQ	18	VAL
16	AQ	29	ARG
16	AQ	31	ARG
16	AQ	34	TYR
16	AQ	36	PHE
16	AQ	44	LEU
16	AQ	54	PRO
16	AQ	55	GLY
17	AR	3	ILE
17	AR	16	ALA
18	AS	11	SER
18	AS	15	PRO
18	AS	24	ALA
18	AS	27	LYS
18	AS	61	SER
19	AT	3	LYS
19	AT	4	LYS
19	AT	15	MET
19	AT	34	LYS
19	AT	48	GLU
19	AT	50	LYS
19	AT	81	ARG
19	AT	104	LYS
20	AU	42	ARG
20	AU	49	LYS
20	AU	52	PRO
20	AU	59	SER
20	AU	75	ILE
20	AU	79	LEU
20	AU	82	THR
20	AU	87	ARG
21	AV	3	ARG
21	AV	6	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
21	AV	12	ASP
21	AV	21	GLU
21	AV	28	LYS
21	AV	32	LYS
21	AV	40	ILE
21	AV	42	PRO
21	AV	43	GLU
21	AV	64	GLU
21	AV	70	LYS
21	AV	79	THR
22	AW	12	ALA
22	AW	99	LEU
22	AW	105	SER
23	AX	6	ARG
23	AX	9	ARG
26	BC	35	ALA
26	BC	39	GLU
26	BC	54	SER
26	BC	61	THR
26	BC	66	HIS
26	BC	72	VAL
26	BC	217	THR
27	BD	6	PHE
27	BD	10	THR
27	BD	17	THR
27	BD	18	VAL
27	BD	30	GLU
27	BD	33	LEU
27	BD	35	LYS
27	BD	44	ASN
27	BD	53	PHE
27	BD	54	ARG
27	BD	58	HIS
27	BD	70	TRP
27	BD	72	LYS
27	BD	73	VAL
27	BD	81	ALA
27	BD	91	ARG
27	BD	106	ILE
27	BD	107	ALA
27	BD	108	PRO
27	BD	118	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	BD	121	PRO
27	BD	122	ASP
27	BD	125	ILE
27	BD	133	LEU
27	BD	134	ARG
27	BD	145	VAL
27	BD	153	ALA
27	BD	155	LEU
27	BD	157	ARG
27	BD	158	ALA
27	BD	160	GLY
27	BD	167	GLY
27	BD	178	PRO
27	BD	179	SER
27	BD	219	PRO
27	BD	224	ALA
27	BD	225	ALA
27	BD	232	PRO
27	BD	239	ARG
27	BD	241	PRO
27	BD	244	ARG
27	BD	247	ALA
27	BD	249	PRO
27	BD	252	TRP
27	BD	258	LYS
27	BD	264	LYS
27	BD	268	ARG
27	BD	270	ILE
27	BD	271	ILE
28	BE	16	ARG
28	BE	38	THR
28	BE	42	ASP
28	BE	54	GLN
28	BE	68	ALA
28	BE	70	ALA
28	BE	74	PRO
28	BE	92	THR
28	BE	111	ARG
28	BE	117	MET
28	BE	122	PHE
28	BE	128	SER
28	BE	133	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
28	BE	134	ILE
28	BE	145	LYS
28	BE	149	ARG
28	BE	151	TYR
28	BE	157	ALA
28	BE	168	MET
28	BE	173	VAL
28	BE	180	ASN
28	BE	191	PRO
28	BE	202	LYS
29	BF	13	SER
29	BF	14	PRO
29	BF	30	PRO
29	BF	45	ARG
29	BF	52	LYS
29	BF	53	THR
29	BF	57	VAL
29	BF	58	ALA
29	BF	62	ARG
29	BF	67	GLN
29	BF	68	LYS
29	BF	69	HIS
29	BF	75	HIS
29	BF	82	ILE
29	BF	84	VAL
29	BF	85	GLY
29	BF	89	VAL
29	BF	91	GLY
29	BF	99	TYR
29	BF	100	THR
29	BF	104	LYS
29	BF	132	VAL
29	BF	151	SER
29	BF	169	ASN
29	BF	172	TRP
29	BF	186	ILE
29	BF	196	LEU
30	BG	16	ARG
30	BG	18	GLU
30	BG	27	ASN
30	BG	32	PRO
30	BG	36	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
30	BG	42	GLY
30	BG	43	LEU
30	BG	51	ARG
30	BG	66	GLN
30	BG	68	PRO
30	BG	73	ALA
30	BG	76	SER
30	BG	78	SER
30	BG	86	MET
30	BG	104	GLU
30	BG	111	LEU
30	BG	114	ILE
30	BG	115	ARG
30	BG	116	ASP
30	BG	117	PHE
30	BG	123	ASN
30	BG	124	SER
30	BG	128	ARG
30	BG	131	TYR
30	BG	132	ASN
30	BG	133	LEU
30	BG	138	GLN
30	BG	140	ILE
30	BG	143	GLU
30	BG	144	ILE
30	BG	148	MET
30	BG	164	GLU
30	BG	172	LEU
30	BG	181	ARG
31	BH	6	ARG
31	BH	7	LEU
31	BH	12	PRO
31	BH	15	VAL
31	BH	20	ALA
31	BH	30	LYS
31	BH	56	SER
31	BH	99	VAL
31	BH	104	GLU
31	BH	107	VAL
31	BH	111	HIS
31	BH	127	GLU
31	BH	136	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BH	152	ARG
31	BH	153	LYS
31	BH	155	SER
31	BH	157	TYR
31	BH	160	LYS
31	BH	164	TYR
31	BH	168	PRO
32	BK	10	GLU
32	BK	14	ASP
32	BK	15	VAL
32	BK	22	LYS
32	BK	23	PRO
32	BK	25	TYR
32	BK	27	ARG
32	BK	33	ARG
32	BK	39	ALA
32	BK	74	ASN
32	BK	91	SER
32	BK	102	SER
32	BK	112	LYS
32	BK	134	PRO
33	BL	17	ALA
33	BL	18	THR
33	BL	34	ILE
33	BL	50	ASP
33	BL	66	THR
33	BL	67	PHE
33	BL	71	THR
33	BL	73	PRO
33	BL	112	MET
33	BL	118	THR
34	BM	3	THR
34	BM	4	TYR
34	BM	7	LYS
34	BM	9	VAL
34	BM	23	LEU
34	BM	31	ALA
34	BM	35	ARG
34	BM	43	THR
34	BM	46	VAL
34	BM	48	MET
34	BM	50	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BM	58	ASP
34	BM	59	LYS
34	BM	66	LYS
34	BM	68	GLU
34	BM	76	SER
34	BM	79	PRO
34	BM	83	LYS
34	BM	127	ASP
34	BM	135	PRO
34	BM	136	GLU
35	BN	4	PRO
35	BN	11	ALA
35	BN	14	THR
35	BN	17	ARG
35	BN	26	LYS
35	BN	28	SER
35	BN	29	ASN
35	BN	30	ALA
35	BN	46	ALA
35	BN	53	LYS
35	BN	63	VAL
35	BN	64	ARG
35	BN	66	LYS
35	BN	89	ASN
35	BN	93	PRO
35	BN	97	ARG
35	BN	101	PRO
35	BN	103	ALA
35	BN	105	GLU
35	BN	110	GLY
35	BN	111	PHE
35	BN	119	PRO
36	BO	8	PRO
36	BO	12	ALA
36	BO	14	LYS
36	BO	27	HIS
36	BO	29	LYS
36	BO	42	SER
36	BO	44	GLY
36	BO	47	ASP
36	BO	55	ARG
36	BO	56	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	BO	57	THR
36	BO	58	THR
36	BO	64	LYS
36	BO	72	PRO
36	BO	88	LEU
36	BO	96	THR
36	BO	102	ARG
36	BO	106	LEU
36	BO	107	LYS
36	BO	122	PRO
36	BO	127	ALA
37	BP	11	LYS
37	BP	21	THR
37	BP	27	VAL
37	BP	29	PHE
37	BP	39	PRO
37	BP	40	ALA
37	BP	58	PHE
37	BP	59	ARG
37	BP	66	ILE
37	BP	67	ARG
37	BP	68	ILE
37	BP	71	ASP
37	BP	77	LYS
37	BP	78	PRO
37	BP	80	GLU
37	BP	81	VAL
37	BP	111	GLU
37	BP	124	LYS
37	BP	125	LEU
37	BP	126	PRO
37	BP	132	VAL
37	BP	138	ASP
38	BQ	4	LEU
38	BQ	38	VAL
38	BQ	57	ARG
38	BQ	72	ASP
38	BQ	76	VAL
38	BQ	88	ARG
38	BQ	89	ASP
39	BR	5	THR
39	BR	14	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
39	BR	28	VAL
39	BR	29	PHE
39	BR	31	SER
39	BR	32	LEU
39	BR	35	ILE
39	BR	36	TYR
39	BR	48	LEU
39	BR	51	ALA
39	BR	54	LEU
39	BR	58	LEU
39	BR	61	ASN
40	BS	2	ASN
40	BS	3	ARG
40	BS	5	ALA
40	BS	19	LEU
40	BS	20	PRO
40	BS	22	PHE
40	BS	25	GLY
40	BS	27	THR
40	BS	39	ARG
40	BS	45	PHE
40	BS	58	ASN
40	BS	83	ILE
40	BS	98	LYS
40	BS	100	TYR
40	BS	103	ARG
40	BS	105	LEU
40	BS	106	SER
40	BS	109	GLU
41	BT	3	ARG
41	BT	4	ALA
41	BT	8	VAL
41	BT	22	LYS
41	BT	31	SER
41	BT	32	PHE
41	BT	33	ARG
41	BT	62	ILE
41	BT	75	ASN
41	BT	94	ASN
42	BU	10	LYS
42	BU	11	GLN
42	BU	13	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
42	BU	15	GLU
42	BU	19	LYS
42	BU	22	VAL
42	BU	31	ALA
42	BU	32	THR
42	BU	39	LEU
42	BU	40	LEU
42	BU	46	VAL
42	BU	50	PRO
42	BU	57	VAL
42	BU	68	LYS
42	BU	69	LYS
42	BU	73	SER
42	BU	82	ARG
42	BU	100	ARG
43	BV	9	TYR
43	BV	11	ARG
43	BV	12	ILE
43	BV	14	PRO
43	BV	25	ARG
43	BV	27	LYS
43	BV	41	LYS
43	BV	44	ALA
43	BV	58	ALA
43	BV	64	MET
43	BV	65	LEU
43	BV	73	ALA
43	BV	92	ARG
44	BW	4	ALA
44	BW	6	ASP
44	BW	63	LYS
44	BW	73	ARG
44	BW	89	ILE
44	BW	90	GLU
44	BW	95	LEU
45	BX	10	GLY
45	BX	15	VAL
45	BX	31	LEU
45	BX	40	GLU
45	BX	42	VAL
45	BX	45	VAL
45	BX	46	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
45	BX	47	LYS
45	BX	57	GLN
45	BX	58	GLY
45	BX	65	ALA
45	BX	71	LYS
45	BX	72	VAL
45	BX	77	PRO
45	BX	82	PRO
45	BX	108	THR
46	BY	41	LEU
46	BY	42	VAL
46	BY	57	ILE
46	BY	62	PRO
46	BY	78	LYS
46	BY	79	ARG
46	BY	83	PRO
46	BY	93	ASP
46	BY	94	GLU
46	BY	108	PRO
46	BY	109	ALA
46	BY	146	ILE
46	BY	155	LEU
46	BY	159	PRO
46	BY	161	VAL
46	BY	162	GLU
46	BY	165	VAL
47	BZ	2	ALA
47	BZ	29	GLN
47	BZ	55	ARG
47	BZ	84	LEU
48	B1	12	SER
48	B1	13	PRO
48	B1	15	GLU
48	B1	34	ALA
48	B1	35	SER
48	B1	42	ASN
49	B2	9	VAL
49	B2	11	SER
49	B2	13	ILE
49	B2	28	LEU
49	B2	29	ARG
49	B2	30	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
49	B2	31	LEU
49	B2	52	HIS
50	B3	6	HIS
50	B3	8	LYS
50	B3	11	PRO
50	B3	13	ARG
50	B3	14	ILE
50	B3	18	CYS
50	B3	32	TYR
50	B3	33	VAL
50	B3	39	CYS
50	B3	53	GLU
50	B3	55	ARG
51	B4	7	PRO
51	B4	10	LYS
51	B4	11	THR
51	B4	18	ALA
51	B4	23	HIS
51	B4	36	CYS
51	B4	38	ALA
51	B4	42	PRO
52	B5	8	LYS
52	B5	17	LYS
52	B5	20	ASN
52	B5	23	THR
52	B5	26	ASN
52	B5	27	LYS
52	B5	29	ASN
52	B5	30	THR
52	B5	36	LEU
52	B5	37	ARG
52	B5	38	LYS
52	B5	46	HIS
52	B5	49	HIS
52	B5	50	ARG
52	B5	51	GLU
52	B5	53	LYS
53	B6	2	LYS
53	B6	10	ARG
53	B6	41	ARG
53	B6	47	ARG
54	B7	5	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
54	B7	27	THR
54	B7	30	ARG
54	B7	36	LYS
54	B7	37	SER
54	B7	39	LYS
54	B7	62	LEU
54	B7	63	PRO
55	B8	5	ALA
55	B8	9	ARG
55	B8	10	ILE
55	B8	11	CYS
4	AE	9	GLU
4	AE	29	ALA
4	AE	73	THR
4	AE	102	LEU
4	AE	151	GLY
4	AE	178	ARG
4	AE	190	THR
4	AE	227	GLY
5	AF	27	LYS
5	AF	30	ARG
5	AF	66	VAL
5	AF	74	GLY
5	AF	101	LEU
5	AF	158	GLY
5	AF	206	GLU
6	AG	4	TYR
6	AG	67	ILE
6	AG	73	ARG
6	AG	101	LEU
6	AG	107	ARG
6	AG	138	TYR
6	AG	139	ARG
6	AG	165	MET
6	AG	181	MET
6	AG	200	GLU
6	AG	208	SER
7	AH	37	ARG
7	AH	98	THR
7	AH	102	ALA
7	AH	104	ALA
8	AI	13	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	AI	14	LEU
8	AI	51	PRO
8	AI	83	ASP
9	AJ	23	VAL
9	AJ	56	GLN
9	AJ	72	ARG
9	AJ	92	SER
9	AJ	94	ARG
9	AJ	112	PRO
9	AJ	113	GLU
9	AJ	146	GLU
9	AJ	153	HIS
10	AK	37	ARG
10	AK	78	GLN
10	AK	97	VAL
10	AK	102	ARG
10	AK	108	GLY
10	AK	123	GLU
10	AK	134	ILE
11	AL	39	GLY
11	AL	68	GLY
11	AL	71	SER
11	AL	94	ALA
11	AL	104	ARG
11	AL	114	TYR
11	AL	120	ARG
11	AL	125	TYR
12	AM	31	GLY
12	AM	58	ASP
12	AM	61	GLU
12	AM	78	ASN
12	AM	94	VAL
13	AN	13	GLN
13	AN	55	LYS
13	AN	76	GLY
13	AN	102	GLY
13	AN	104	GLN
13	AN	115	PRO
14	AO	31	PRO
14	AO	41	ARG
14	AO	42	THR
14	AO	76	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
14	AO	87	GLY
14	AO	94	PRO
14	AO	126	LYS
15	AP	8	GLU
15	AP	43	THR
15	AP	46	LYS
15	AP	67	GLU
15	AP	117	VAL
15	AP	122	LYS
15	AP	123	ALA
16	AQ	5	ALA
16	AQ	9	LYS
16	AQ	17	LYS
16	AQ	22	THR
16	AQ	28	GLY
16	AQ	56	VAL
17	AR	6	GLU
17	AR	46	HIS
17	AR	76	GLU
17	AR	83	GLU
17	AR	87	ILE
18	AS	30	GLY
18	AS	43	LYS
18	AS	82	GLN
19	AT	16	GLN
19	AT	33	GLY
19	AT	96	GLN
19	AT	98	LEU
20	AU	28	GLU
20	AU	34	TYR
20	AU	37	VAL
20	AU	38	GLU
20	AU	54	ARG
20	AU	64	ARG
21	AV	20	LEU
21	AV	36	ARG
21	AV	65	ASN
21	AV	71	LEU
22	AW	49	ALA
22	AW	56	MET
22	AW	68	LYS
22	AW	101	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
22	AW	102	GLY
22	AW	103	GLY
23	AX	7	ARG
26	BC	22	ILE
26	BC	67	GLY
26	BC	80	GLY
26	BC	132	GLY
26	BC	140	PRO
26	BC	161	ILE
26	BC	164	ARG
27	BD	52	ARG
27	BD	62	TYR
27	BD	110	GLY
27	BD	111	LEU
27	BD	123	ALA
27	BD	149	PRO
27	BD	152	GLY
27	BD	189	CYS
27	BD	196	VAL
27	BD	204	ILE
27	BD	207	GLY
27	BD	217	ARG
27	BD	243	GLY
27	BD	262	ARG
27	BD	263	ARG
27	BD	266	SER
28	BE	22	PRO
28	BE	44	TYR
28	BE	72	VAL
28	BE	93	VAL
28	BE	95	ILE
28	BE	115	GLY
28	BE	118	LYS
28	BE	121	ASN
28	BE	124	GLY
28	BE	139	GLY
28	BE	155	LYS
28	BE	178	GLU
28	BE	187	ALA
29	BF	54	ARG
29	BF	81	PRO
29	BF	98	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
29	BF	102	PRO
29	BF	126	VAL
29	BF	136	THR
29	BF	158	THR
29	BF	167	ALA
29	BF	177	ALA
29	BF	184	TYR
29	BF	190	GLU
30	BG	20	ILE
30	BG	24	GLY
30	BG	61	ALA
30	BG	88	ILE
30	BG	151	ALA
30	BG	154	GLY
30	BG	163	ALA
31	BH	31	GLY
31	BH	33	LEU
31	BH	42	ARG
31	BH	57	ASP
31	BH	105	LEU
31	BH	110	SER
31	BH	118	PRO
31	BH	120	GLY
31	BH	151	ILE
31	BH	156	ALA
31	BH	169	VAL
32	BK	11	ASN
32	BK	86	THR
32	BK	114	LEU
32	BK	123	LEU
33	BL	7	VAL
33	BL	20	ALA
33	BL	52	ILE
33	BL	61	ALA
33	BL	74	ALA
33	BL	89	HIS
33	BL	113	PRO
34	BM	19	GLU
34	BM	30	ILE
34	BM	34	LEU
34	BM	38	HIS
34	BM	40	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BM	47	ALA
34	BM	63	THR
34	BM	67	LEU
34	BM	88	GLU
34	BM	92	ALA
34	BM	105	GLY
34	BM	110	GLY
34	BM	114	ARG
35	BN	49	ARG
35	BN	50	GLY
35	BN	52	VAL
35	BN	88	ASN
35	BN	90	GLN
35	BN	102	VAL
35	BN	104	ARG
35	BN	121	VAL
36	BO	7	ARG
36	BO	11	GLY
36	BO	23	PRO
36	BO	32	THR
36	BO	34	GLY
36	BO	39	LYS
36	BO	43	GLY
36	BO	67	MET
36	BO	84	ASN
36	BO	87	ASP
36	BO	92	GLU
37	BP	12	GLN
37	BP	45	GLN
37	BP	88	GLY
37	BP	94	VAL
37	BP	100	GLY
37	BP	107	ALA
37	BP	127	ILE
37	BP	136	ALA
37	BP	137	TYR
38	BQ	8	ARG
38	BQ	71	GLN
38	BQ	86	ARG
38	BQ	94	TYR
39	BR	11	LYS
39	BR	23	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
39	BR	30	ARG
39	BR	33	LYS
39	BR	43	GLU
39	BR	67	ARG
39	BR	78	LEU
39	BR	82	ILE
39	BR	97	ARG
40	BS	24	PRO
40	BS	30	VAL
40	BS	36	GLU
40	BS	41	ARG
40	BS	82	LEU
40	BS	99	LEU
40	BS	104	ASN
40	BS	114	LEU
41	BT	26	GLY
41	BT	27	LEU
41	BT	47	TYR
41	BT	53	ARG
41	BT	78	THR
41	BT	88	ILE
41	BT	90	VAL
41	BT	93	LYS
41	BT	110	VAL
42	BU	8	GLY
42	BU	14	VAL
42	BU	18	LEU
42	BU	45	THR
42	BU	72	VAL
42	BU	81	TYR
43	BV	15	ARG
43	BV	26	GLY
43	BV	30	GLU
43	BV	75	TYR
43	BV	90	ARG
44	BW	8	ILE
44	BW	15	GLU
44	BW	33	LYS
44	BW	49	VAL
44	BW	53	LYS
44	BW	67	GLY
44	BW	74	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
44	BW	85	PRO
45	BX	21	LYS
45	BX	29	GLU
45	BX	33	LYS
45	BX	34	LYS
45	BX	48	ALA
45	BX	66	PRO
45	BX	83	THR
45	BX	86	ARG
45	BX	95	LYS
45	BX	106	LEU
46	BY	11	GLU
46	BY	31	ARG
46	BY	50	GLN
46	BY	54	HIS
46	BY	123	ASP
46	BY	169	GLU
46	BY	170	THR
47	BZ	21	LEU
47	BZ	67	VAL
48	B1	17	GLU
48	B1	66	ASN
49	B2	39	ASP
49	B2	53	LEU
50	B3	3	GLU
50	B3	7	PRO
50	B3	21	VAL
50	B3	48	ARG
50	B3	50	VAL
50	B3	51	ASP
50	B3	56	VAL
51	B4	20	ARG
52	B5	18	ARG
52	B5	28	ARG
52	B5	31	PRO
52	B5	32	ASN
52	B5	48	VAL
52	B5	52	VAL
53	B6	3	ARG
53	B6	5	TRP
53	B6	14	LYS
53	B6	19	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
54	B7	32	LEU
54	B7	34	TRP
54	B7	52	LYS
55	B8	3	VAL
55	B8	7	VAL
55	B8	33	LYS
4	AE	88	ALA
4	AE	96	ARG
4	AE	110	GLN
4	AE	141	GLU
4	AE	157	ARG
4	AE	180	LEU
4	AE	183	PRO
4	AE	237	ALA
5	AF	7	PRO
5	AF	49	SER
5	AF	62	ASP
5	AF	81	GLY
5	AF	127	ARG
5	AF	139	GLN
5	AF	145	GLY
5	AF	178	LEU
5	AF	181	ASN
6	AG	7	PRO
6	AG	40	PRO
6	AG	51	PRO
6	AG	53	ASP
6	AG	153	ARG
7	AH	26	PHE
7	AH	96	PRO
7	AH	112	LEU
8	AI	12	PRO
8	AI	15	ASP
8	AI	69	GLU
9	AJ	6	ARG
9	AJ	38	LEU
9	AJ	103	TRP
9	AJ	121	ALA
10	AK	24	THR
10	AK	39	LEU
10	AK	41	ARG
10	AK	44	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	AK	69	ARG
10	AK	73	ASP
10	AK	90	GLY
11	AL	43	ALA
11	AL	47	LEU
11	AL	102	LEU
11	AL	103	THR
11	AL	105	ASP
11	AL	117	HIS
12	AM	77	PRO
13	AN	37	GLY
13	AN	53	SER
13	AN	93	GLN
13	AN	123	LYS
14	AO	23	LYS
14	AO	26	ALA
14	AO	80	HIS
14	AO	100	ILE
14	AO	105	TYR
14	AO	106	ASP
14	AO	107	ALA
14	AO	121	GLY
14	AO	122	THR
15	AP	5	ALA
15	AP	45	VAL
15	AP	70	LEU
15	AP	75	ALA
15	AP	87	TYR
15	AP	120	LYS
17	AR	19	PRO
17	AR	33	THR
17	AR	88	ARG
18	AS	28	ARG
18	AS	44	THR
18	AS	54	GLU
18	AS	66	PRO
20	AU	71	LYS
20	AU	72	ARG
20	AU	81	PHE
21	AV	25	LYS
21	AV	30	LEU
22	AW	15	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
22	AW	24	LEU
22	AW	32	ALA
22	AW	50	GLU
22	AW	57	ARG
22	AW	59	ALA
22	AW	76	ALA
22	AW	84	LEU
26	BC	59	ARG
26	BC	69	GLY
26	BC	78	ALA
26	BC	90	GLY
26	BC	167	LYS
26	BC	226	PRO
27	BD	56	GLY
27	BD	86	PRO
27	BD	226	MET
27	BD	227	ASN
27	BD	233	HIS
27	BD	245	PRO
27	BD	246	PRO
27	BD	259	THR
28	BE	51	PHE
28	BE	67	PHE
28	BE	75	VAL
28	BE	126	PRO
29	BF	21	ALA
29	BF	24	LEU
29	BF	72	ARG
29	BF	159	GLY
30	BG	30	GLU
30	BG	57	ALA
30	BG	81	LYS
30	BG	106	LEU
30	BG	125	PHE
30	BG	167	GLU
30	BG	178	PHE
31	BH	67	LEU
31	BH	94	TYR
31	BH	114	VAL
32	BK	100	ALA
32	BK	116	LEU
33	BL	31	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
33	BL	51	ALA
33	BL	82	ALA
33	BL	84	LEU
34	BM	18	ALA
34	BM	29	LYS
34	BM	109	LYS
34	BM	138	LEU
35	BN	10	VAL
35	BN	59	LYS
35	BN	91	LEU
35	BN	92	GLU
35	BN	109	LYS
36	BO	16	ARG
36	BO	26	GLY
36	BO	37	GLY
36	BO	81	GLN
37	BP	26	TYR
37	BP	31	ASP
37	BP	46	GLN
37	BP	73	PRO
37	BP	115	MET
38	BQ	5	LYS
38	BQ	49	ASP
38	BQ	58	GLY
38	BQ	100	LEU
39	BR	10	ARG
39	BR	60	GLY
39	BR	66	ALA
39	BR	72	ALA
39	BR	102	ALA
40	BS	4	GLY
40	BS	28	VAL
40	BS	102	ILE
41	BT	6	THR
41	BT	96	ALA
41	BT	97	ASP
42	BU	29	PRO
43	BV	66	GLU
43	BV	67	ASP
44	BW	48	LYS
45	BX	16	ALA
45	BX	74	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
46	BY	64	GLY
46	BY	80	ARG
46	BY	82	ARG
46	BY	95	PRO
46	BY	131	ARG
46	BY	145	GLU
46	BY	160	GLY
47	BZ	56	ASP
47	BZ	83	PRO
50	B3	27	THR
50	B3	58	ARG
50	B3	61	ARG
51	B4	5	PRO
51	B4	9	LYS
51	B4	14	ALA
51	B4	47	PRO
51	B4	59	GLU
52	B5	25	LYS
52	B5	34	LEU
53	B6	4	THR
53	B6	11	LYS
53	B6	31	LEU
53	B6	39	ARG
53	B6	40	TRP
53	B6	46	VAL
54	B7	13	ARG
54	B7	18	ALA
54	B7	41	ILE
54	B7	53	PRO
54	B7	57	ARG
54	B7	61	LEU
4	AE	74	LYS
4	AE	91	PRO
4	AE	98	LEU
4	AE	150	SER
4	AE	158	LEU
4	AE	167	PRO
4	AE	174	VAL
4	AE	193	ASP
4	AE	229	VAL
5	AF	3	ASN
5	AF	16	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	AF	109	PRO
6	AG	36	ARG
6	AG	147	ALA
6	AG	196	LEU
7	AH	53	LEU
7	AH	153	LYS
8	AI	17	SER
9	AJ	32	ARG
9	AJ	93	PRO
9	AJ	97	GLN
9	AJ	131	LYS
9	AJ	155	ARG
10	AK	71	GLY
11	AL	55	ALA
11	AL	95	LYS
11	AL	110	GLU
11	AL	126	SER
12	AM	30	SER
12	AM	53	PRO
12	AM	54	PHE
13	AN	118	GLY
14	AO	16	GLU
14	AO	17	LYS
14	AO	70	ILE
15	AP	72	ALA
15	AP	106	ASN
16	AQ	16	PHE
17	AR	5	LYS
17	AR	44	LYS
18	AS	57	ARG
18	AS	64	ALA
19	AT	6	LEU
19	AT	14	LYS
19	AT	53	LEU
21	AV	76	PRO
22	AW	58	LYS
22	AW	61	SER
22	AW	78	ALA
22	AW	97	ALA
23	AX	8	THR
23	AX	24	ARG
26	BC	56	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	BC	71	GLN
27	BD	37	LEU
27	BD	209	ALA
27	BD	248	SER
27	BD	257	LEU
28	BE	28	ALA
28	BE	32	PRO
28	BE	53	PRO
28	BE	89	ASP
28	BE	94	GLU
28	BE	119	ARG
28	BE	135	HIS
28	BE	143	ASN
28	BE	165	VAL
29	BF	64	ILE
29	BF	111	ALA
29	BF	137	LYS
29	BF	168	ARG
29	BF	183	VAL
30	BG	153	ARG
30	BG	166	ASP
31	BH	58	GLU
31	BH	138	LYS
31	BH	154	PRO
31	BH	175	LYS
32	BK	34	GLY
33	BL	85	GLU
33	BL	95	LYS
34	BM	28	THR
34	BM	90	MET
34	BM	108	PRO
35	BN	106	LEU
36	BO	9	ASN
36	BO	15	ARG
36	BO	25	SER
36	BO	35	HIS
36	BO	63	PRO
36	BO	89	ALA
36	BO	108	LYS
37	BP	22	LYS
37	BP	37	LEU
37	BP	79	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
37	BP	84	GLY
37	BP	89	ASN
37	BP	98	LYS
38	BQ	12	ARG
38	BQ	42	LYS
39	BR	59	LYS
39	BR	80	LEU
39	BR	89	ARG
40	BS	9	LEU
40	BS	77	PRO
40	BS	96	ARG
40	BS	110	ILE
40	BS	111	ARG
40	BS	112	ARG
41	BT	41	ALA
41	BT	60	LEU
41	BT	72	HIS
41	BT	111	GLU
42	BU	2	PHE
44	BW	32	PRO
45	BX	85	VAL
46	BY	47	VAL
46	BY	113	ALA
48	B1	36	ILE
49	B2	23	LEU
49	B2	42	ALA
50	B3	26	SER
50	B3	41	PRO
50	B3	52	THR
51	B4	24	ALA
51	B4	48	GLU
51	B4	56	LYS
51	B4	58	LEU
52	B5	40	CYS
52	B5	47	THR
53	B6	35	ARG
55	B8	12	ASP
55	B8	29	ASN
4	AE	75	LYS
5	AF	146	ALA
5	AF	174	PRO
7	AH	95	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	AH	113	ALA
8	AI	36	ARG
9	AJ	96	GLN
9	AJ	122	HIS
10	AK	65	TYR
10	AK	104	ARG
11	AL	52	ALA
11	AL	107	ARG
12	AM	73	ASP
14	AO	111	LYS
14	AO	123	LYS
15	AP	27	LYS
15	AP	103	THR
16	AQ	13	THR
17	AR	29	VAL
18	AS	36	ILE
20	AU	19	LYS
21	AV	11	VAL
21	AV	29	ARG
21	AV	67	VAL
21	AV	73	GLU
22	AW	25	ARG
22	AW	60	GLU
23	AX	10	ARG
23	AX	22	ARG
26	BC	20	TYR
26	BC	84	LYS
26	BC	117	PRO
26	BC	148	ASN
26	BC	200	LYS
27	BD	88	ARG
27	BD	208	LYS
27	BD	210	GLY
27	BD	231	HIS
28	BE	8	LYS
28	BE	58	ARG
28	BE	129	HIS
28	BE	179	GLU
29	BF	178	PRO
29	BF	182	ASN
29	BF	185	ASP
30	BG	7	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
30	BG	113	ARG
30	BG	135	LEU
31	BH	75	ALA
32	BK	40	THR
33	BL	26	ALA
33	BL	54	PRO
33	BL	101	TRP
34	BM	78	TYR
34	BM	87	LEU
34	BM	112	LEU
35	BN	67	LYS
36	BO	19	VAL
36	BO	31	ALA
36	BO	120	ALA
36	BO	131	SER
37	BP	47	ILE
37	BP	62	GLY
37	BP	119	ARG
38	BQ	74	LYS
40	BS	13	ARG
41	BT	9	VAL
42	BU	66	ARG
44	BW	24	GLY
45	BX	17	SER
46	BY	85	HIS
46	BY	168	GLU
49	B2	17	LYS
50	B3	24	THR
51	B4	49	CYS
51	B4	51	TYR
55	B8	4	ARG
4	AE	20	GLU
4	AE	176	GLU
5	AF	87	LEU
6	AG	92	VAL
6	AG	94	LEU
6	AG	117	ALA
7	AH	142	LEU
8	AI	37	VAL
9	AJ	18	TYR
9	AJ	50	ILE
9	AJ	130	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	AK	80	ILE
11	AL	57	GLY
12	AM	37	PRO
12	AM	41	PRO
13	AN	34	ASP
14	AO	90	VAL
15	AP	3	ARG
15	AP	7	VAL
15	AP	97	PRO
19	AT	17	LYS
19	AT	80	GLY
22	AW	20	LEU
22	AW	67	ALA
26	BC	49	ILE
27	BD	83	GLU
27	BD	238	GLY
27	BD	254	THR
29	BF	134	GLY
30	BG	44	GLY
31	BH	125	VAL
31	BH	131	VAL
31	BH	173	PRO
32	BK	111	PRO
35	BN	115	VAL
37	BP	28	ALA
37	BP	91	GLU
38	BQ	61	HIS
40	BS	80	SER
41	BT	7	GLY
50	B3	22	ILE
50	B3	29	PRO
51	B4	27	PRO
51	B4	31	VAL
54	B7	8	LYS
54	B7	20	GLY
54	B7	33	ASN
4	AE	130	ARG
5	AF	70	VAL
13	AN	49	GLY
16	AQ	7	ILE
17	AR	82	ILE
26	BC	41	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	BD	127	VAL
32	BK	7	GLU
33	BL	83	GLY
36	BO	53	GLY
37	BP	19	GLY
37	BP	61	GLY
41	BT	87	GLY
41	BT	105	VAL
45	BX	24	VAL
46	BY	141	VAL
49	B2	43	ILE
54	B7	14	VAL
6	AG	128	VAL
6	AG	136	PRO
6	AG	143	GLY
8	AI	26	ILE
15	AP	113	PRO
17	AR	45	VAL
20	AU	51	LEU
22	AW	100	ILE
28	BE	71	GLY
28	BE	116	VAL
28	BE	161	GLY
31	BH	76	VAL
33	BL	91	PRO
34	BM	44	PRO
36	BO	97	PRO
37	BP	99	PRO
44	BW	43	VAL
47	BZ	8	GLY
47	BZ	73	GLY
49	B2	45	GLY
5	AF	197	GLY
14	AO	104	VAL
27	BD	142	VAL
31	BH	55	PRO
31	BH	126	PRO
33	BL	87	GLY
37	BP	106	VAL
46	BY	167	PRO
50	B3	28	LYS
4	AE	239	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	AI	65	VAL
12	AM	91	PRO
14	AO	96	VAL
15	AP	15	VAL
15	AP	85	GLY
22	AW	41	ILE
26	BC	14	VAL
31	BH	115	VAL
37	BP	52	VAL
39	BR	69	VAL
42	BU	90	PRO
45	BX	44	ILE
46	BY	129	SER
46	BY	177	PRO
50	B3	5	ILE
50	B3	54	GLY
4	AE	182	ILE
11	AL	90	PRO
13	AN	48	ILE
15	AP	53	VAL
32	BK	31	LEU
36	BO	126	VAL
43	BV	80	PRO
45	BX	18	GLY

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	AE	202/220 (92%)	138 (68%)	64 (32%)	0	4
5	AF	160/188 (85%)	123 (77%)	37 (23%)	1	9
6	AG	180/181 (99%)	131 (73%)	49 (27%)	0	6
7	AH	115/123 (94%)	78 (68%)	37 (32%)	0	4
8	AI	90/90 (100%)	61 (68%)	29 (32%)	0	4
9	AJ	126/127 (99%)	93 (74%)	33 (26%)	1	7
10	AK	119/119 (100%)	86 (72%)	33 (28%)	0	6

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
11	AL	98/99 (99%)	73 (74%)	25 (26%)	1	8
12	AM	88/92 (96%)	67 (76%)	21 (24%)	1	9
13	AN	90/99 (91%)	74 (82%)	16 (18%)	2	19
14	AO	104/109 (95%)	81 (78%)	23 (22%)	1	11
15	AP	100/101 (99%)	75 (75%)	25 (25%)	1	8
16	AQ	49/50 (98%)	36 (74%)	13 (26%)	1	7
17	AR	79/80 (99%)	64 (81%)	15 (19%)	2	16
18	AS	72/74 (97%)	49 (68%)	23 (32%)	0	4
19	AT	96/97 (99%)	67 (70%)	29 (30%)	0	5
20	AU	64/77 (83%)	48 (75%)	16 (25%)	1	8
21	AV	71/80 (89%)	55 (78%)	16 (22%)	1	10
22	AW	76/82 (93%)	59 (78%)	17 (22%)	1	11
23	AX	19/22 (86%)	17 (90%)	2 (10%)	10	47
26	BC	180/181 (99%)	151 (84%)	29 (16%)	3	26
27	BD	215/218 (99%)	153 (71%)	62 (29%)	0	5
28	BE	166/166 (100%)	102 (61%)	64 (39%)	0	1
29	BF	164/166 (99%)	105 (64%)	59 (36%)	0	2
30	BG	156/156 (100%)	112 (72%)	44 (28%)	0	5
31	BH	143/148 (97%)	109 (76%)	34 (24%)	1	9
32	BK	124/124 (100%)	92 (74%)	32 (26%)	1	7
33	BL	105/111 (95%)	89 (85%)	16 (15%)	4	28
34	BM	118/119 (99%)	79 (67%)	39 (33%)	0	3
35	BN	100/100 (100%)	69 (69%)	31 (31%)	0	4
36	BO	111/116 (96%)	71 (64%)	40 (36%)	0	2
37	BP	106/111 (96%)	65 (61%)	41 (39%)	0	1
38	BQ	100/101 (99%)	71 (71%)	29 (29%)	0	5
39	BR	87/88 (99%)	63 (72%)	24 (28%)	0	6
40	BS	105/127 (83%)	68 (65%)	37 (35%)	0	2
41	BT	93/94 (99%)	64 (69%)	29 (31%)	0	4
42	BU	82/82 (100%)	57 (70%)	25 (30%)	0	5
43	BV	90/92 (98%)	64 (71%)	26 (29%)	0	5

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
44	BW	76/78 (97%)	57 (75%)	19 (25%)	1	8
45	BX	91/91 (100%)	72 (79%)	19 (21%)	1	12
46	BY	159/179 (89%)	120 (76%)	39 (24%)	1	8
47	BZ	67/67 (100%)	51 (76%)	16 (24%)	1	9
48	B1	62/62 (100%)	44 (71%)	18 (29%)	0	5
49	B2	51/52 (98%)	36 (71%)	15 (29%)	0	5
50	B3	63/63 (100%)	45 (71%)	18 (29%)	0	5
51	B4	50/52 (96%)	31 (62%)	19 (38%)	0	1
52	B5	48/52 (92%)	32 (67%)	16 (33%)	0	3
53	B6	42/42 (100%)	29 (69%)	13 (31%)	0	4
54	B7	54/55 (98%)	44 (82%)	10 (18%)	2	17
55	B8	34/34 (100%)	29 (85%)	5 (15%)	4	30
All	All	5040/5237 (96%)	3649 (72%)	1391 (28%)	0	6

All (1391) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	AE	10	LEU
4	AE	11	LEU
4	AE	17	PHE
4	AE	20	GLU
4	AE	21	ARG
4	AE	23	ARG
4	AE	25	ASN
4	AE	26	PRO
4	AE	35	GLU
4	AE	36	ARG
4	AE	40	HIS
4	AE	44	LEU
4	AE	48	MET
4	AE	49	GLU
4	AE	52	GLU
4	AE	56	ARG
4	AE	57	PHE
4	AE	61	LEU
4	AE	64	ARG
4	AE	69	LEU
4	AE	70	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	AE	74	LYS
4	AE	75	LYS
4	AE	80	ILE
4	AE	84	GLU
4	AE	91	PRO
4	AE	92	TYR
4	AE	96	ARG
4	AE	101	MET
4	AE	102	LEU
4	AE	105	PHE
4	AE	111	ARG
4	AE	114	ARG
4	AE	118	LEU
4	AE	122	PHE
4	AE	131	PRO
4	AE	132	LYS
4	AE	134	GLU
4	AE	135	GLN
4	AE	137	ARG
4	AE	147	LYS
4	AE	148	TYR
4	AE	152	PHE
4	AE	153	ARG
4	AE	154	LEU
4	AE	158	LEU
4	AE	162	ILE
4	AE	168	THR
4	AE	169	LYS
4	AE	172	ILE
4	AE	181	PHE
4	AE	182	ILE
4	AE	185	ILE
4	AE	187	LEU
4	AE	189	ASP
4	AE	191	ASP
4	AE	194	PRO
4	AE	195	ASP
4	AE	196	LEU
4	AE	204	ASN
4	AE	209	ARG
4	AE	212	GLN
4	AE	217	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	AE	222	ILE
5	AF	5	ILE
5	AF	8	ILE
5	AF	10	PHE
5	AF	15	THR
5	AF	23	TYR
5	AF	29	TYR
5	AF	30	ARG
5	AF	33	LEU
5	AF	35	GLU
5	AF	38	ARG
5	AF	46	GLU
5	AF	48	TYR
5	AF	52	LEU
5	AF	59	ARG
5	AF	67	THR
5	AF	82	GLU
5	AF	89	GLU
5	AF	91	LEU
5	AF	95	THR
5	AF	97	LYS
5	AF	107	GLN
5	AF	125	GLU
5	AF	136	GLN
5	AF	139	GLN
5	AF	140	ARG
5	AF	142	MET
5	AF	164	ARG
5	AF	176	HIS
5	AF	178	LEU
5	AF	184	TYR
5	AF	186	PHE
5	AF	190	ARG
5	AF	193	TYR
5	AF	195	VAL
5	AF	196	LEU
5	AF	201	TYR
5	AF	204	LEU
6	AG	5	ILE
6	AG	8	VAL
6	AG	9	CYS
6	AG	10	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	AG	14	ARG
6	AG	15	GLU
6	AG	20	TYR
6	AG	24	GLU
6	AG	25	ARG
6	AG	26	CYS
6	AG	29	PRO
6	AG	31	CYS
6	AG	33	MET
6	AG	47	ARG
6	AG	51	PRO
6	AG	57	ARG
6	AG	59	ARG
6	AG	61	LYS
6	AG	63	LYS
6	AG	68	TYR
6	AG	78	LEU
6	AG	79	PHE
6	AG	83	SER
6	AG	85	LYS
6	AG	107	ARG
6	AG	108	LEU
6	AG	114	ARG
6	AG	116	GLN
6	AG	120	LEU
6	AG	131	ARG
6	AG	135	LEU
6	AG	138	TYR
6	AG	141	ARG
6	AG	142	PRO
6	AG	146	ILE
6	AG	154	ASN
6	AG	155	LEU
6	AG	168	ARG
6	AG	173	TRP
6	AG	175	SER
6	AG	176	LEU
6	AG	178	VAL
6	AG	181	MET
6	AG	182	LYS
6	AG	190	ASP
6	AG	191	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	AG	193	ASP
6	AG	196	LEU
6	AG	198	VAL
7	AH	5	ASP
7	AH	6	PHE
7	AH	7	GLU
7	AH	15	ARG
7	AH	16	THR
7	AH	25	ARG
7	AH	26	PHE
7	AH	27	ARG
7	AH	28	PHE
7	AH	31	LEU
7	AH	34	VAL
7	AH	41	VAL
7	AH	56	GLN
7	AH	60	TYR
7	AH	63	ARG
7	AH	64	ARG
7	AH	67	VAL
7	AH	73	ASN
7	AH	78	HIS
7	AH	79	GLU
7	AH	80	ILE
7	AH	81	GLU
7	AH	89	ILE
7	AH	91	LEU
7	AH	101	ILE
7	AH	105	VAL
7	AH	111	GLU
7	AH	112	LEU
7	AH	119	LEU
7	AH	121	LYS
7	AH	128	PRO
7	AH	131	ILE
7	AH	133	TYR
7	AH	141	GLN
7	AH	143	ARG
7	AH	150	ARG
7	AH	152	ARG
8	AI	2	ARG
8	AI	4	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	AI	5	GLU
8	AI	6	VAL
8	AI	8	ILE
8	AI	10	LEU
8	AI	14	LEU
8	AI	28	ARG
8	AI	37	VAL
8	AI	40	VAL
8	AI	47	ARG
8	AI	48	LEU
8	AI	50	TYR
8	AI	55	ASP
8	AI	57	GLN
8	AI	60	PHE
8	AI	65	VAL
8	AI	66	GLU
8	AI	67	MET
8	AI	69	GLU
8	AI	74	ASP
8	AI	75	LEU
8	AI	79	LEU
8	AI	83	ASP
8	AI	88	VAL
8	AI	94	GLN
8	AI	95	GLU
8	AI	98	LEU
8	AI	100	ASN
9	AJ	5	ARG
9	AJ	6	ARG
9	AJ	10	ARG
9	AJ	12	LEU
9	AJ	14	PRO
9	AJ	17	VAL
9	AJ	18	TYR
9	AJ	22	LEU
9	AJ	47	CYS
9	AJ	51	GLN
9	AJ	54	THR
9	AJ	56	GLN
9	AJ	69	VAL
9	AJ	72	ARG
9	AJ	74	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	AJ	89	MET
9	AJ	99	LEU
9	AJ	101	LEU
9	AJ	103	TRP
9	AJ	106	GLN
9	AJ	111	ARG
9	AJ	113	GLU
9	AJ	123	GLU
9	AJ	124	LEU
9	AJ	126	ASP
9	AJ	136	LYS
9	AJ	139	GLU
9	AJ	143	ARG
9	AJ	146	GLU
9	AJ	149	ARG
9	AJ	153	HIS
9	AJ	155	ARG
9	AJ	156	TRP
10	AK	4	ASP
10	AK	6	ILE
10	AK	14	ARG
10	AK	18	ARG
10	AK	25	ASP
10	AK	26	VAL
10	AK	31	PHE
10	AK	32	LYS
10	AK	33	GLU
10	AK	36	LEU
10	AK	37	ARG
10	AK	39	LEU
10	AK	41	ARG
10	AK	45	ILE
10	AK	49	GLU
10	AK	50	ARG
10	AK	54	ASP
10	AK	63	LEU
10	AK	70	GLN
10	AK	84	ARG
10	AK	88	LYS
10	AK	92	ARG
10	AK	98	LYS
10	AK	100	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	AK	102	ARG
10	AK	103	VAL
10	AK	104	ARG
10	AK	107	LEU
10	AK	111	ILE
10	AK	119	LEU
10	AK	122	ARG
10	AK	126	LYS
10	AK	136	GLU
11	AL	4	TYR
11	AL	5	TYR
11	AL	11	LYS
11	AL	12	GLU
11	AL	19	LEU
11	AL	21	PRO
11	AL	23	ASN
11	AL	32	ASP
11	AL	33	PHE
11	AL	37	PHE
11	AL	47	LEU
11	AL	51	ARG
11	AL	54	ASP
11	AL	63	ILE
11	AL	64	THR
11	AL	75	ASP
11	AL	79	LEU
11	AL	89	ASN
11	AL	101	PHE
11	AL	102	LEU
11	AL	105	ASP
11	AL	110	GLU
11	AL	113	LYS
11	AL	116	LYS
11	AL	117	HIS
12	AM	3	LYS
12	AM	4	ILE
12	AM	5	ARG
12	AM	9	ARG
12	AM	11	PHE
12	AM	14	LYS
12	AM	33	GLN
12	AM	45	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	AM	47	PHE
12	AM	49	VAL
12	AM	60	ARG
12	AM	62	HIS
12	AM	63	PHE
12	AM	73	ASP
12	AM	78	ASN
12	AM	79	ARG
12	AM	81	THR
12	AM	83	GLU
12	AM	85	LEU
12	AM	95	GLU
12	AM	99	LYS
13	AN	13	GLN
13	AN	18	ARG
13	AN	22	HIS
13	AN	39	PRO
13	AN	40	ILE
13	AN	42	TRP
13	AN	50	TYR
13	AN	62	GLN
13	AN	67	ASP
13	AN	78	GLN
13	AN	81	ASP
13	AN	99	GLN
13	AN	104	GLN
13	AN	116	HIS
13	AN	125	PHE
13	AN	126	ARG
14	AO	8	ASN
14	AO	10	LEU
14	AO	16	GLU
14	AO	23	LYS
14	AO	32	PHE
14	AO	38	THR
14	AO	42	THR
14	AO	53	ARG
14	AO	60	LEU
14	AO	64	TYR
14	AO	65	GLU
14	AO	66	VAL
14	AO	73	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
14	AO	75	HIS
14	AO	84	LEU
14	AO	85	ILE
14	AO	93	LEU
14	AO	100	ILE
14	AO	101	VAL
14	AO	113	ARG
14	AO	119	LYS
14	AO	126	LYS
14	AO	127	GLU
15	AP	4	ILE
15	AP	11	ARG
15	AP	25	ILE
15	AP	35	GLU
15	AP	47	ASP
15	AP	48	LEU
15	AP	49	THR
15	AP	61	GLU
15	AP	64	TRP
15	AP	66	LEU
15	AP	73	GLU
15	AP	77	ASN
15	AP	80	ARG
15	AP	81	LEU
15	AP	87	TYR
15	AP	88	ARG
15	AP	91	ARG
15	AP	96	LEU
15	AP	99	ARG
15	AP	101	GLN
15	AP	108	ARG
15	AP	110	ARG
15	AP	121	LYS
15	AP	124	PRO
15	AP	126	LYS
16	AQ	16	PHE
16	AQ	21	TYR
16	AQ	22	THR
16	AQ	24	CYS
16	AQ	29	ARG
16	AQ	34	TYR
16	AQ	40	CYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
16	AQ	43	CYS
16	AQ	45	ARG
16	AQ	49	HIS
16	AQ	54	PRO
16	AQ	56	VAL
16	AQ	61	TRP
17	AR	3	ILE
17	AR	4	THR
17	AR	5	LYS
17	AR	13	GLN
17	AR	38	ARG
17	AR	41	GLU
17	AR	42	HIS
17	AR	49	ASP
17	AR	54	ARG
17	AR	64	ARG
17	AR	66	LEU
17	AR	73	GLU
17	AR	77	ARG
17	AR	78	TYR
17	AR	79	ARG
18	AS	2	VAL
18	AS	3	LYS
18	AS	4	ILE
18	AS	6	LEU
18	AS	14	ASN
18	AS	15	PRO
18	AS	18	ARG
18	AS	27	LYS
18	AS	32	TYR
18	AS	36	ILE
18	AS	39	TYR
18	AS	40	ASP
18	AS	48	TRP
18	AS	54	GLU
18	AS	55	ARG
18	AS	59	TRP
18	AS	62	VAL
18	AS	65	GLN
18	AS	66	PRO
18	AS	69	THR
18	AS	72	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	AS	75	ARG
18	AS	80	PHE
19	AT	6	LEU
19	AT	12	SER
19	AT	15	MET
19	AT	18	THR
19	AT	24	GLU
19	AT	25	ARG
19	AT	27	PHE
19	AT	28	PRO
19	AT	36	ILE
19	AT	38	ARG
19	AT	40	LYS
19	AT	43	LEU
19	AT	48	GLU
19	AT	51	TYR
19	AT	57	VAL
19	AT	58	GLU
19	AT	60	ILE
19	AT	62	SER
19	AT	67	LYS
19	AT	69	LYS
19	AT	84	LEU
19	AT	86	GLU
19	AT	87	LYS
19	AT	93	GLN
19	AT	95	TYR
19	AT	96	GLN
19	AT	98	LEU
19	AT	100	LYS
19	AT	101	ARG
20	AU	28	GLU
20	AU	32	ARG
20	AU	34	TYR
20	AU	36	ASN
20	AU	38	GLU
20	AU	49	LYS
20	AU	53	ARG
20	AU	55	ARG
20	AU	62	GLU
20	AU	63	GLN
20	AU	72	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
20	AU	74	ARG
20	AU	79	LEU
20	AU	80	PRO
20	AU	81	PHE
20	AU	83	GLU
21	AV	12	ASP
21	AV	15	LEU
21	AV	16	LEU
21	AV	17	GLU
21	AV	18	LYS
21	AV	19	VAL
21	AV	25	LYS
21	AV	34	TRP
21	AV	36	ARG
21	AV	37	ARG
21	AV	41	VAL
21	AV	42	PRO
21	AV	43	GLU
21	AV	57	HIS
21	AV	61	TYR
21	AV	74	PHE
22	AW	13	LEU
22	AW	23	ARG
22	AW	25	ARG
22	AW	26	ASN
22	AW	30	LYS
22	AW	35	THR
22	AW	42	GLN
22	AW	51	GLU
22	AW	56	MET
22	AW	63	ILE
22	AW	71	THR
22	AW	73	HIS
22	AW	79	ARG
22	AW	84	LEU
22	AW	87	LYS
22	AW	88	VAL
22	AW	91	LEU
23	AX	9	ARG
23	AX	10	ARG
26	BC	6	ARG
26	BC	7	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	BC	15	ASP
26	BC	20	TYR
26	BC	27	HIS
26	BC	46	LYS
26	BC	47	LEU
26	BC	58	VAL
26	BC	59	ARG
26	BC	70	LYS
26	BC	81	GLU
26	BC	92	ASP
26	BC	99	ILE
26	BC	101	GLN
26	BC	102	LYS
26	BC	111	ASP
26	BC	125	SER
26	BC	130	ILE
26	BC	144	THR
26	BC	160	ARG
26	BC	161	ILE
26	BC	163	PHE
26	BC	164	ARG
26	BC	166	ASP
26	BC	180	PHE
26	BC	190	ARG
26	BC	202	GLU
26	BC	212	VAL
26	BC	213	TYR
27	BD	23	GLU
27	BD	31	LYS
27	BD	34	VAL
27	BD	37	LEU
27	BD	39	LYS
27	BD	44	ASN
27	BD	46	GLN
27	BD	51	VAL
27	BD	52	ARG
27	BD	53	PHE
27	BD	59	LYS
27	BD	63	ARG
27	BD	70	TRP
27	BD	73	VAL
27	BD	84	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	BD	87	ASN
27	BD	88	ARG
27	BD	91	ARG
27	BD	92	ILE
27	BD	94	LEU
27	BD	95	LEU
27	BD	101	GLU
27	BD	106	ILE
27	BD	109	ASP
27	BD	115	GLN
27	BD	116	GLN
27	BD	118	VAL
27	BD	121	PRO
27	BD	131	LEU
27	BD	134	ARG
27	BD	145	VAL
27	BD	146	GLU
27	BD	147	LEU
27	BD	155	LEU
27	BD	169	GLU
27	BD	175	LEU
27	BD	176	ARG
27	BD	179	SER
27	BD	181	GLU
27	BD	186	HIS
27	BD	188	GLU
27	BD	190	TYR
27	BD	200	ASP
27	BD	202	LYS
27	BD	206	LEU
27	BD	217	ARG
27	BD	220	HIS
27	BD	230	ASP
27	BD	232	PRO
27	BD	233	HIS
27	BD	239	ARG
27	BD	249	PRO
27	BD	250	TRP
27	BD	252	TRP
27	BD	253	GLN
27	BD	254	THR
27	BD	258	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	BD	259	THR
27	BD	260	ARG
27	BD	264	LYS
27	BD	270	ILE
27	BD	273	ARG
28	BE	1	MET
28	BE	2	LYS
28	BE	4	ILE
28	BE	5	LEU
28	BE	7	VAL
28	BE	8	LYS
28	BE	12	THR
28	BE	13	ARG
28	BE	14	ILE
28	BE	17	ASP
28	BE	22	PRO
28	BE	38	THR
28	BE	40	GLU
28	BE	41	LYS
28	BE	44	TYR
28	BE	45	THR
28	BE	48	GLN
28	BE	49	LEU
28	BE	51	PHE
28	BE	52	LEU
28	BE	53	PRO
28	BE	56	PRO
28	BE	66	HIS
28	BE	77	ILE
28	BE	78	LEU
28	BE	80	GLU
28	BE	83	ASP
28	BE	91	VAL
28	BE	96	PHE
28	BE	108	SER
28	BE	111	ARG
28	BE	113	PHE
28	BE	118	LYS
28	BE	119	ARG
28	BE	120	TRP
28	BE	121	ASN
28	BE	122	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
28	BE	126	PRO
28	BE	129	HIS
28	BE	135	HIS
28	BE	136	ARG
28	BE	137	HIS
28	BE	141	ILE
28	BE	143	ASN
28	BE	149	ARG
28	BE	150	VAL
28	BE	152	LYS
28	BE	154	LYS
28	BE	163	GLU
28	BE	164	ARG
28	BE	165	VAL
28	BE	169	ASN
28	BE	170	LEU
28	BE	171	GLU
28	BE	173	VAL
28	BE	176	ILE
28	BE	180	ASN
28	BE	181	LEU
28	BE	184	VAL
28	BE	185	LYS
28	BE	195	LEU
28	BE	197	ILE
28	BE	199	ARG
28	BE	202	LYS
29	BF	8	GLN
29	BF	14	PRO
29	BF	17	ARG
29	BF	19	GLU
29	BF	23	ASP
29	BF	27	GLU
29	BF	29	ASN
29	BF	30	PRO
29	BF	31	HIS
29	BF	33	LEU
29	BF	34	TRP
29	BF	35	GLU
29	BF	39	TRP
29	BF	46	ARG
29	BF	60	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
29	BF	64	ILE
29	BF	67	GLN
29	BF	69	HIS
29	BF	74	ARG
29	BF	75	HIS
29	BF	77	ASP
29	BF	78	ILE
29	BF	82	ILE
29	BF	83	PHE
29	BF	95	ARG
29	BF	99	TYR
29	BF	102	PRO
29	BF	105	VAL
29	BF	106	ARG
29	BF	108	LYS
29	BF	117	ARG
29	BF	119	ARG
29	BF	120	GLU
29	BF	122	LYS
29	BF	126	VAL
29	BF	127	GLU
29	BF	133	ASN
29	BF	137	LYS
29	BF	138	GLU
29	BF	140	LEU
29	BF	152	GLU
29	BF	155	LEU
29	BF	157	VAL
29	BF	158	THR
29	BF	168	ARG
29	BF	170	LEU
29	BF	172	TRP
29	BF	175	THR
29	BF	178	PRO
29	BF	181	LEU
29	BF	184	TYR
29	BF	185	ASP
29	BF	188	ARG
29	BF	192	LEU
29	BF	197	ASP
29	BF	200	GLU
29	BF	202	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
29	BF	203	GLN
29	BF	204	ASN
30	BG	8	LYS
30	BG	12	TYR
30	BG	16	ARG
30	BG	20	ILE
30	BG	21	ARG
30	BG	22	ARG
30	BG	25	TYR
30	BG	32	PRO
30	BG	33	ARG
30	BG	34	LEU
30	BG	36	LYS
30	BG	39	ILE
30	BG	41	GLN
30	BG	51	ARG
30	BG	54	GLU
30	BG	68	PRO
30	BG	77	ILE
30	BG	82	LEU
30	BG	91	ARG
30	BG	94	LEU
30	BG	96	ARG
30	BG	97	ASP
30	BG	101	ILE
30	BG	102	PHE
30	BG	103	LEU
30	BG	117	PHE
30	BG	120	LEU
30	BG	126	ASP
30	BG	128	ARG
30	BG	131	TYR
30	BG	133	LEU
30	BG	135	LEU
30	BG	139	LEU
30	BG	143	GLU
30	BG	146	TYR
30	BG	148	MET
30	BG	150	ASP
30	BG	152	LEU
30	BG	153	ARG
30	BG	155	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
30	BG	170	ARG
30	BG	174	GLU
30	BG	180	PHE
30	BG	181	ARG
31	BH	7	LEU
31	BH	11	VAL
31	BH	13	LYS
31	BH	18	GLU
31	BH	23	ARG
31	BH	25	LYS
31	BH	32	GLU
31	BH	35	VAL
31	BH	40	GLU
31	BH	46	GLU
31	BH	50	VAL
31	BH	52	VAL
31	BH	68	THR
31	BH	69	ARG
31	BH	74	ASN
31	BH	83	TYR
31	BH	90	LYS
31	BH	94	TYR
31	BH	95	ARG
31	BH	103	LEU
31	BH	105	LEU
31	BH	111	HIS
31	BH	115	VAL
31	BH	116	GLU
31	BH	131	VAL
31	BH	132	ARG
31	BH	136	ILE
31	BH	153	LYS
31	BH	157	TYR
31	BH	158	HIS
31	BH	164	TYR
31	BH	167	GLU
31	BH	168	PRO
31	BH	172	LYS
32	BK	4	ILE
32	BK	5	LEU
32	BK	10	GLU
32	BK	11	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
32	BK	12	LEU
32	BK	14	ASP
32	BK	20	ASP
32	BK	25	TYR
32	BK	27	ARG
32	BK	33	ARG
32	BK	38	LEU
32	BK	48	GLU
32	BK	60	GLU
32	BK	66	GLU
32	BK	70	LYS
32	BK	75	LEU
32	BK	77	LEU
32	BK	78	THR
32	BK	81	VAL
32	BK	82	ARG
32	BK	101	LEU
32	BK	114	LEU
32	BK	117	GLU
32	BK	125	GLU
32	BK	128	LEU
32	BK	129	THR
32	BK	130	TYR
32	BK	131	LYS
32	BK	134	PRO
32	BK	135	GLU
32	BK	142	VAL
32	BK	147	GLN
33	BL	4	VAL
33	BL	10	LEU
33	BL	12	LEU
33	BL	29	GLN
33	BL	30	HIS
33	BL	56	GLU
33	BL	66	THR
33	BL	73	PRO
33	BL	77	LEU
33	BL	91	PRO
33	BL	101	TRP
33	BL	113	PRO
33	BL	115	LEU
33	BL	116	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
33	BL	118	THR
33	BL	120	LEU
34	BM	7	LYS
34	BM	8	GLN
34	BM	12	ARG
34	BM	13	TRP
34	BM	15	LEU
34	BM	16	ILE
34	BM	17	ASP
34	BM	22	THR
34	BM	25	ARG
34	BM	28	THR
34	BM	32	THR
34	BM	33	LEU
34	BM	37	LYS
34	BM	38	HIS
34	BM	39	ARG
34	BM	42	TRP
34	BM	43	THR
34	BM	45	ASN
34	BM	52	VAL
34	BM	55	VAL
34	BM	69	GLN
34	BM	72	TYR
34	BM	75	TYR
34	BM	78	TYR
34	BM	79	PRO
34	BM	82	LEU
34	BM	85	ILE
34	BM	89	LYS
34	BM	90	MET
34	BM	91	LEU
34	BM	98	VAL
34	BM	101	HIS
34	BM	109	LYS
34	BM	119	ARG
34	BM	122	VAL
34	BM	127	ASP
34	BM	131	GLN
34	BM	134	ARG
34	BM	136	GLU
35	BN	1	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BN	3	GLN
35	BN	6	THR
35	BN	7	TYR
35	BN	8	LEU
35	BN	12	ASP
35	BN	14	THR
35	BN	21	CYS
35	BN	23	ARG
35	BN	24	VAL
35	BN	28	SER
35	BN	29	ASN
35	BN	34	THR
35	BN	38	VAL
35	BN	39	ILE
35	BN	42	SER
35	BN	47	ILE
35	BN	56	ASP
35	BN	58	VAL
35	BN	59	LYS
35	BN	64	ARG
35	BN	65	THR
35	BN	77	ILE
35	BN	78	ARG
35	BN	82	ASN
35	BN	89	ASN
35	BN	92	GLU
35	BN	94	ARG
35	BN	97	ARG
35	BN	114	ILE
35	BN	116	SER
36	BO	7	ARG
36	BO	13	ASN
36	BO	17	LYS
36	BO	29	LYS
36	BO	30	THR
36	BO	33	ARG
36	BO	40	SER
36	BO	41	ARG
36	BO	45	LEU
36	BO	46	LYS
36	BO	48	PRO
36	BO	49	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	BO	52	GLU
36	BO	55	ARG
36	BO	59	LEU
36	BO	60	MET
36	BO	64	LYS
36	BO	65	ARG
36	BO	68	GLN
36	BO	74	GLU
36	BO	75	ILE
36	BO	79	ARG
36	BO	84	ASN
36	BO	88	LEU
36	BO	94	GLU
36	BO	99	LEU
36	BO	105	LEU
36	BO	108	LYS
36	BO	110	TYR
36	BO	114	ILE
36	BO	117	GLU
36	BO	122	PRO
36	BO	123	LEU
36	BO	126	VAL
36	BO	128	HIS
36	BO	130	PHE
36	BO	137	LYS
36	BO	138	LEU
36	BO	147	LEU
36	BO	149	GLU
37	BP	6	ARG
37	BP	12	GLN
37	BP	14	ARG
37	BP	18	LYS
37	BP	26	TYR
37	BP	32	TYR
37	BP	34	LEU
37	BP	41	TRP
37	BP	42	ILE
37	BP	43	THR
37	BP	45	GLN
37	BP	48	GLU
37	BP	51	ARG
37	BP	56	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
37	BP	60	ARG
37	BP	63	LYS
37	BP	64	ILE
37	BP	65	PHE
37	BP	71	ASP
37	BP	74	TYR
37	BP	76	LYS
37	BP	79	LEU
37	BP	80	GLU
37	BP	83	MET
37	BP	89	ASN
37	BP	97	VAL
37	BP	98	LYS
37	BP	101	ARG
37	BP	104	PHE
37	BP	105	GLU
37	BP	109	VAL
37	BP	112	GLU
37	BP	118	LEU
37	BP	124	LYS
37	BP	126	PRO
37	BP	127	ILE
37	BP	130	LYS
37	BP	133	ARG
37	BP	135	ASP
37	BP	137	TYR
37	BP	139	GLU
38	BQ	4	LEU
38	BQ	5	LYS
38	BQ	10	LEU
38	BQ	11	ASN
38	BQ	13	HIS
38	BQ	17	ARG
38	BQ	18	LEU
38	BQ	23	ASN
38	BQ	37	THR
38	BQ	49	ASP
38	BQ	52	ILE
38	BQ	56	LYS
38	BQ	57	ARG
38	BQ	59	ASP
38	BQ	60	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
38	BQ	64	ARG
38	BQ	74	LYS
38	BQ	77	ARG
38	BQ	79	LEU
38	BQ	80	PHE
38	BQ	82	GLU
38	BQ	86	ARG
38	BQ	88	ARG
38	BQ	89	ASP
38	BQ	99	LYS
38	BQ	100	LEU
38	BQ	105	ARG
38	BQ	113	LEU
38	BQ	116	LEU
39	BR	3	ARG
39	BR	9	ARG
39	BR	11	LYS
39	BR	12	PHE
39	BR	20	ARG
39	BR	21	THR
39	BR	23	ARG
39	BR	26	LEU
39	BR	27	SER
39	BR	29	PHE
39	BR	36	TYR
39	BR	38	GLN
39	BR	42	ASP
39	BR	57	LYS
39	BR	73	LEU
39	BR	76	LYS
39	BR	78	LEU
39	BR	80	LEU
39	BR	88	ASP
39	BR	94	TYR
39	BR	97	ARG
39	BR	98	VAL
39	BR	106	ARG
39	BR	112	PHE
40	BS	1	MET
40	BS	20	PRO
40	BS	22	PHE
40	BS	23	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
40	BS	30	VAL
40	BS	32	TYR
40	BS	39	ARG
40	BS	43	GLN
40	BS	46	GLU
40	BS	50	ILE
40	BS	53	ARG
40	BS	54	ARG
40	BS	55	ASN
40	BS	57	PHE
40	BS	58	ASN
40	BS	61	PHE
40	BS	62	THR
40	BS	64	ARG
40	BS	66	VAL
40	BS	68	TYR
40	BS	75	ILE
40	BS	78	LEU
40	BS	79	HIS
40	BS	82	LEU
40	BS	85	LYS
40	BS	88	ILE
40	BS	93	ARG
40	BS	95	ARG
40	BS	96	ARG
40	BS	101	PHE
40	BS	102	ILE
40	BS	103	ARG
40	BS	106	SER
40	BS	107	ASP
40	BS	108	ARG
40	BS	109	GLU
40	BS	117	ASP
41	BT	6	THR
41	BT	13	LYS
41	BT	16	LYS
41	BT	19	LYS
41	BT	25	TRP
41	BT	27	LEU
41	BT	32	PHE
41	BT	36	ARG
41	BT	38	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
41	BT	50	ARG
41	BT	52	ARG
41	BT	53	ARG
41	BT	54	LYS
41	BT	55	ARG
41	BT	58	ARG
41	BT	65	ILE
41	BT	70	ARG
41	BT	75	ASN
41	BT	77	SER
41	BT	81	HIS
41	BT	83	LEU
41	BT	88	ILE
41	BT	92	ARG
41	BT	93	LYS
41	BT	97	ASP
41	BT	105	VAL
41	BT	106	PHE
41	BT	108	GLU
41	BT	114	LYS
42	BU	4	ILE
42	BU	13	ARG
42	BU	15	GLU
42	BU	18	LEU
42	BU	20	LEU
42	BU	21	ARG
42	BU	29	PRO
42	BU	35	LEU
42	BU	36	PRO
42	BU	40	LEU
42	BU	43	GLU
42	BU	44	LYS
42	BU	45	THR
42	BU	49	THR
42	BU	52	VAL
42	BU	56	SER
42	BU	60	GLU
42	BU	64	HIS
42	BU	78	LYS
42	BU	79	VAL
42	BU	83	ARG
42	BU	84	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
42	BU	87	HIS
42	BU	93	GLU
42	BU	100	ARG
43	BV	4	LYS
43	BV	8	ARG
43	BV	10	VAL
43	BV	11	ARG
43	BV	12	ILE
43	BV	16	LYS
43	BV	18	ARG
43	BV	24	ILE
43	BV	31	GLU
43	BV	33	ARG
43	BV	40	ASN
43	BV	42	ARG
43	BV	45	TYR
43	BV	47	VAL
43	BV	60	ASN
43	BV	67	ASP
43	BV	71	VAL
43	BV	82	LEU
43	BV	87	PRO
43	BV	88	ARG
43	BV	90	ARG
43	BV	94	ASP
43	BV	95	ILE
43	BV	98	LYS
43	BV	103	ILE
43	BV	106	ILE
44	BW	8	ILE
44	BW	9	LEU
44	BW	13	LEU
44	BW	14	SER
44	BW	16	LYS
44	BW	23	GLU
44	BW	28	PHE
44	BW	36	LYS
44	BW	37	THR
44	BW	38	GLU
44	BW	45	THR
44	BW	47	PHE
44	BW	50	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
44	BW	55	ASN
44	BW	63	LYS
44	BW	65	ARG
44	BW	73	ARG
44	BW	83	VAL
44	BW	92	LEU
45	BX	12	THR
45	BX	13	VAL
45	BX	14	LEU
45	BX	19	LYS
45	BX	26	LYS
45	BX	28	LYS
45	BX	35	TYR
45	BX	42	VAL
45	BX	60	PHE
45	BX	64	GLU
45	BX	73	ARG
45	BX	75	ILE
45	BX	84	ARG
45	BX	89	PHE
45	BX	90	LEU
45	BX	91	GLU
45	BX	102	CYS
45	BX	107	ASP
45	BX	109	GLU
46	BY	3	TYR
46	BY	8	TYR
46	BY	13	GLU
46	BY	14	LYS
46	BY	28	MET
46	BY	30	ASN
46	BY	44	PHE
46	BY	45	ASP
46	BY	49	ARG
46	BY	50	GLN
46	BY	53	ILE
46	BY	55	HIS
46	BY	58	VAL
46	BY	60	GLU
46	BY	62	PRO
46	BY	63	ASP
46	BY	70	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
46	BY	78	LYS
46	BY	80	ARG
46	BY	83	PRO
46	BY	86	VAL
46	BY	87	ASP
46	BY	89	PHE
46	BY	90	VAL
46	BY	95	PRO
46	BY	104	PHE
46	BY	108	PRO
46	BY	120	ILE
46	BY	129	SER
46	BY	140	ASP
46	BY	151	HIS
46	BY	155	LEU
46	BY	159	PRO
46	BY	163	LEU
46	BY	168	GLU
46	BY	171	ILE
46	BY	174	VAL
46	BY	175	VAL
46	BY	179	ASP
47	BZ	10	THR
47	BZ	20	ARG
47	BZ	26	TYR
47	BZ	29	GLN
47	BZ	30	VAL
47	BZ	32	ARG
47	BZ	36	ILE
47	BZ	37	LEU
47	BZ	40	GLN
47	BZ	41	ARG
47	BZ	46	LYS
47	BZ	57	PHE
47	BZ	58	THR
47	BZ	64	ASP
47	BZ	68	GLU
47	BZ	74	ARG
48	B1	1	MET
48	B1	2	ARG
48	B1	6	GLU
48	B1	12	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
48	B1	19	LEU
48	B1	22	GLU
48	B1	25	ARG
48	B1	30	LEU
48	B1	32	PHE
48	B1	33	GLN
48	B1	35	SER
48	B1	45	ILE
48	B1	50	ARG
48	B1	56	LEU
48	B1	58	VAL
48	B1	64	ARG
48	B1	65	GLN
48	B1	66	ASN
49	B2	3	ARG
49	B2	5	LYS
49	B2	6	VAL
49	B2	12	PRO
49	B2	15	TYR
49	B2	26	LEU
49	B2	28	LEU
49	B2	30	ARG
49	B2	31	LEU
49	B2	32	GLN
49	B2	35	ARG
49	B2	37	LEU
49	B2	41	PRO
49	B2	55	ARG
49	B2	59	VAL
50	B3	3	GLU
50	B3	11	PRO
50	B3	14	ILE
50	B3	16	CYS
50	B3	23	GLU
50	B3	24	THR
50	B3	27	THR
50	B3	29	PRO
50	B3	31	ILE
50	B3	32	TYR
50	B3	37	SER
50	B3	47	GLN
50	B3	49	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
50	B3	57	GLU
50	B3	59	PHE
50	B3	60	GLN
50	B3	62	ARG
50	B3	68	ARG
51	B4	4	HIS
51	B4	9	LYS
51	B4	11	THR
51	B4	13	LYS
51	B4	15	ARG
51	B4	17	ASP
51	B4	20	ARG
51	B4	25	LEU
51	B4	26	THR
51	B4	30	LEU
51	B4	33	CYS
51	B4	36	CYS
51	B4	37	LYS
51	B4	39	MET
51	B4	43	HIS
51	B4	49	CYS
51	B4	51	TYR
51	B4	55	ARG
51	B4	59	GLU
52	B5	11	LEU
52	B5	13	CYS
52	B5	19	ARG
52	B5	21	TYR
52	B5	29	ASN
52	B5	30	THR
52	B5	31	PRO
52	B5	32	ASN
52	B5	33	LYS
52	B5	38	LYS
52	B5	40	CYS
52	B5	42	TRP
52	B5	43	CYS
52	B5	46	HIS
52	B5	51	GLU
52	B5	54	ILE
53	B6	3	ARG
53	B6	5	TRP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
53	B6	6	GLN
53	B6	8	ASN
53	B6	12	ARG
53	B6	19	ARG
53	B6	21	ARG
53	B6	24	THR
53	B6	34	ARG
53	B6	36	GLN
53	B6	41	ARG
53	B6	46	VAL
53	B6	48	LYS
54	B7	5	LYS
54	B7	8	LYS
54	B7	16	ILE
54	B7	33	ASN
54	B7	39	LYS
54	B7	42	ARG
54	B7	44	LYS
54	B7	50	LEU
54	B7	59	LYS
54	B7	62	LEU
55	B8	10	ILE
55	B8	12	ASP
55	B8	17	ILE
55	B8	19	ARG
55	B8	27	CYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (180) such sidechains are listed below:

Mol	Chain	Res	Type
4	AE	40	HIS
4	AE	78	GLN
4	AE	94	ASN
4	AE	135	GLN
4	AE	204	ASN
4	AE	224	GLN
5	AF	3	ASN
5	AF	6	HIS
5	AF	28	GLN
5	AF	102	ASN
5	AF	108	ASN
5	AF	110	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	AF	136	GLN
5	AF	139	GLN
5	AF	170	GLN
6	AG	42	GLN
6	AG	62	GLN
6	AG	74	GLN
6	AG	77	ASN
6	AG	154	ASN
6	AG	161	ASN
6	AG	201	GLN
7	AH	56	GLN
7	AH	65	ASN
7	AH	72	GLN
7	AH	78	HIS
8	AI	7	ASN
8	AI	13	ASN
8	AI	18	GLN
8	AI	32	ASN
8	AI	64	GLN
8	AI	84	ASN
8	AI	100	ASN
9	AJ	56	GLN
9	AJ	68	ASN
9	AJ	96	GLN
9	AJ	97	GLN
9	AJ	106	GLN
9	AJ	109	ASN
9	AJ	110	GLN
9	AJ	148	ASN
9	AJ	153	HIS
10	AK	15	ASN
10	AK	70	GLN
11	AL	3	GLN
11	AL	23	ASN
11	AL	58	HIS
11	AL	73	GLN
11	AL	87	GLN
11	AL	89	ASN
11	AL	117	HIS
12	AM	56	HIS
12	AM	62	HIS
12	AM	68	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	AM	76	ASN
12	AM	78	ASN
13	AN	26	ASN
13	AN	27	ASN
13	AN	38	ASN
13	AN	104	GLN
13	AN	117	ASN
14	AO	8	ASN
14	AO	49	ASN
14	AO	99	HIS
15	AP	12	ASN
15	AP	40	ASN
15	AP	92	HIS
16	AQ	52	GLN
17	AR	9	GLN
17	AR	13	GLN
17	AR	37	ASN
17	AR	62	GLN
18	AS	82	GLN
19	AT	93	GLN
21	AV	14	HIS
22	AW	16	HIS
22	AW	42	GLN
22	AW	45	GLN
22	AW	73	HIS
22	AW	75	ASN
26	BC	56	GLN
26	BC	148	ASN
26	BC	165	ASN
26	BC	188	ASN
27	BD	45	ASN
27	BD	87	ASN
27	BD	115	GLN
27	BD	166	GLN
27	BD	198	ASN
27	BD	201	HIS
28	BE	35	GLN
28	BE	55	ASN
28	BE	85	ASN
28	BE	121	ASN
28	BE	129	HIS
28	BE	169	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
29	BF	67	GLN
29	BF	133	ASN
29	BF	169	ASN
30	BG	26	GLN
30	BG	40	ASN
30	BG	41	GLN
30	BG	123	ASN
30	BG	130	ASN
31	BH	74	ASN
31	BH	143	GLN
32	BK	28	ASN
32	BK	105	HIS
32	BK	139	GLN
33	BL	11	GLN
33	BL	29	GLN
33	BL	30	HIS
33	BL	42	ASN
33	BL	47	ASN
33	BL	116	ASN
34	BM	38	HIS
34	BM	94	HIS
35	BN	5	GLN
35	BN	89	ASN
35	BN	90	GLN
36	BO	13	ASN
36	BO	35	HIS
36	BO	38	GLN
36	BO	68	GLN
36	BO	81	GLN
36	BO	84	ASN
37	BP	12	GLN
37	BP	57	HIS
37	BP	89	ASN
38	BQ	24	GLN
38	BQ	31	HIS
39	BR	38	GLN
39	BR	84	GLN
40	BS	55	ASN
40	BS	58	ASN
41	BT	44	ASN
41	BT	71	GLN
41	BT	94	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
41	BT	117	GLN
42	BU	11	GLN
42	BU	87	HIS
42	BU	89	GLN
43	BV	34	ASN
43	BV	61	ASN
43	BV	62	HIS
43	BV	102	HIS
44	BW	31	HIS
44	BW	55	ASN
44	BW	82	GLN
44	BW	87	GLN
45	BX	6	HIS
45	BX	43	ASN
46	BY	32	HIS
46	BY	34	ASN
46	BY	75	ASN
46	BY	118	GLN
47	BZ	3	HIS
47	BZ	35	ASN
47	BZ	80	HIS
48	B1	33	GLN
48	B1	41	GLN
48	B1	51	GLN
48	B1	65	GLN
49	B2	32	GLN
50	B3	46	GLN
51	B4	23	HIS
52	B5	20	ASN
52	B5	26	ASN
52	B5	29	ASN
52	B5	32	ASN
53	B6	6	GLN
53	B6	8	ASN
53	B6	16	HIS
53	B6	36	GLN
54	B7	31	HIS
54	B7	33	ASN
54	B7	35	GLN
54	B7	43	GLN
55	B8	32	HIS
55	B8	36	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1515/1522 (99%)	463 (30%)	137 (9%)
2	A1	49/50 (98%)	21 (42%)	4 (8%)
24	BA	2888/2916 (99%)	1204 (41%)	253 (8%)
25	BB	122/123 (99%)	46 (37%)	3 (2%)
3	AB	75/76 (98%)	32 (42%)	1 (1%)
3	AC	75/76 (98%)	23 (30%)	4 (5%)
3	AD	75/76 (98%)	23 (30%)	1 (1%)
All	All	4799/4839 (99%)	1812 (37%)	403 (8%)

All (1812) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	6	G
1	AA	8	A
1	AA	9	G
1	AA	14	U
1	AA	19	C
1	AA	20	U
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	44	G
1	AA	45	U
1	AA	48	C
1	AA	50	A
1	AA	51	A
1	AA	52	G
1	AA	61	G
1	AA	65	U
1	AA	66	G
1	AA	78	G
1	AA	82	U
1	AA	89	U
1	AA	101	A
1	AA	103	C
1	AA	108	G
1	AA	110	C
1	AA	115	G
1	AA	116	A
1	AA	120	A
1	AA	121	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	122	G
1	AA	124	G
1	AA	127	G
1	AA	129(A)	G
1	AA	130	A
1	AA	131	C
1	AA	132	C
1	AA	134	A
1	AA	163	C
1	AA	182	U
1	AA	188	U
1	AA	189	U
1	AA	190	G
1	AA	191(A)	G
1	AA	195	A
1	AA	197	A
1	AA	198	G
1	AA	209	U
1	AA	210	U
1	AA	216	G
1	AA	236	G
1	AA	243	A
1	AA	244	U
1	AA	245	C
1	AA	247	G
1	AA	251	G
1	AA	252	U
1	AA	253	U
1	AA	262	A
1	AA	264	U
1	AA	265	G
1	AA	266	G
1	AA	267	C
1	AA	270	A
1	AA	275	G
1	AA	279	A
1	AA	280	C
1	AA	281	G
1	AA	282	A
1	AA	289	G
1	AA	293	G
1	AA	295	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	296	U
1	AA	306	G
1	AA	308	C
1	AA	309	G
1	AA	313	A
1	AA	314	C
1	AA	315	A
1	AA	316	G
1	AA	326	G
1	AA	328	C
1	AA	329	A
1	AA	330	C
1	AA	332	G
1	AA	336	C
1	AA	345	C
1	AA	346	G
1	AA	348	G
1	AA	351	G
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	364	A
1	AA	367	U
1	AA	368	U
1	AA	372	C
1	AA	373	A
1	AA	378	G
1	AA	379	C
1	AA	382	A
1	AA	383	A
1	AA	388	G
1	AA	389	A
1	AA	390	C
1	AA	392	G
1	AA	397	A
1	AA	398	C
1	AA	410	G
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	422	C
1	AA	423	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	438	G
1	AA	439	A
1	AA	451	A
1	AA	452	A
1	AA	454	C
1	AA	465	A
1	AA	466	C
1	AA	467	G
1	AA	474	G
1	AA	481	G
1	AA	482	A
1	AA	483	C
1	AA	484	G
1	AA	485	G
1	AA	486	U
1	AA	487	A
1	AA	496	A
1	AA	497	U
1	AA	500	G
1	AA	508	C
1	AA	509	A
1	AA	511	C
1	AA	518	C
1	AA	519	C
1	AA	521	G
1	AA	522	C
1	AA	524	G
1	AA	527	G
1	AA	528	C
1	AA	530	G
1	AA	531	U
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	535	A
1	AA	536	C
1	AA	541	G
1	AA	548	G
1	AA	553	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	555	C
1	AA	559	A
1	AA	560	U
1	AA	561	U
1	AA	563	A
1	AA	565	U
1	AA	566	G
1	AA	567	G
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	577	G
1	AA	579	G
1	AA	585	G
1	AA	595	G
1	AA	596	C
1	AA	598	U
1	AA	607	A
1	AA	609	A
1	AA	623	C
1	AA	642	A
1	AA	650	G
1	AA	653	A
1	AA	655	A
1	AA	665	A
1	AA	672	U
1	AA	673	G
1	AA	679	C
1	AA	687	A
1	AA	688	G
1	AA	690	G
1	AA	691	G
1	AA	693	G
1	AA	694	A
1	AA	697	U
1	AA	702	A
1	AA	703	G
1	AA	704	A
1	AA	718	G
1	AA	719	C
1	AA	721	G
1	AA	723	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	724	G
1	AA	728	A
1	AA	730	G
1	AA	731	G
1	AA	733	A
1	AA	749	C
1	AA	752	G
1	AA	753	A
1	AA	754	C
1	AA	763	G
1	AA	764	C
1	AA	766	A
1	AA	776	G
1	AA	777	A
1	AA	781	A
1	AA	782	A
1	AA	785	G
1	AA	788	U
1	AA	790	A
1	AA	791	G
1	AA	793	U
1	AA	794	A
1	AA	801	U
1	AA	812	C
1	AA	813	U
1	AA	815	A
1	AA	816	A
1	AA	817	C
1	AA	818	G
1	AA	819	A
1	AA	820	U
1	AA	821	G
1	AA	828	A
1	AA	841	U
1	AA	843	U
1	AA	848	C
1	AA	854	G
1	AA	860	A
1	AA	865	A
1	AA	870	U
1	AA	871	U
1	AA	872	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	873	A
1	AA	874	G
1	AA	884	U
1	AA	885	G
1	AA	889	A
1	AA	890	G
1	AA	891	U
1	AA	901	A
1	AA	902	G
1	AA	907	A
1	AA	910	C
1	AA	913	A
1	AA	914	A
1	AA	917	G
1	AA	919	A
1	AA	920	U
1	AA	926	G
1	AA	927	G
1	AA	932	C
1	AA	934	C
1	AA	935	A
1	AA	945	G
1	AA	949	A
1	AA	950	U
1	AA	956	U
1	AA	958	A
1	AA	960	U
1	AA	961	U
1	AA	963	G
1	AA	965	A
1	AA	966	G
1	AA	967	C
1	AA	968	A
1	AA	969	A
1	AA	971	G
1	AA	972	C
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	980	C
1	AA	982	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	991	U
1	AA	993	G
1	AA	994	A
1	AA	995	C
1	AA	997	U
1	AA	998	G
1	AA	1000	A
1	AA	1001	G
1	AA	1002	G
1	AA	1003	G
1	AA	1004	A
1	AA	1005	A
1	AA	1006	C
1	AA	1007	C
1	AA	1016	A
1	AA	1023	G
1	AA	1024	G
1	AA	1026	G
1	AA	1027	C
1	AA	1029	G
1	AA	1049	U
1	AA	1050	G
1	AA	1054	C
1	AA	1056	U
1	AA	1057	G
1	AA	1063	C
1	AA	1064	G
1	AA	1065	U
1	AA	1066	C
1	AA	1067	A
1	AA	1068	G
1	AA	1081	G
1	AA	1084	G
1	AA	1085	U
1	AA	1086	U
1	AA	1089	G
1	AA	1094	G
1	AA	1096	C
1	AA	1097	C
1	AA	1100	C
1	AA	1101	A
1	AA	1102	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1103	C
1	AA	1118	C
1	AA	1123	A
1	AA	1125	U
1	AA	1126	U
1	AA	1129	C
1	AA	1130	A
1	AA	1131	G
1	AA	1132	C
1	AA	1136	U
1	AA	1138	G
1	AA	1139	G
1	AA	1140	C
1	AA	1145	C
1	AA	1146	A
1	AA	1147	C
1	AA	1148	U
1	AA	1152	A
1	AA	1156	G
1	AA	1157	A
1	AA	1158	C
1	AA	1159	U
1	AA	1160	G
1	AA	1161	C
1	AA	1174	G
1	AA	1182	G
1	AA	1183	A
1	AA	1184	G
1	AA	1185	G
1	AA	1188	A
1	AA	1189	C
1	AA	1190	G
1	AA	1195	C
1	AA	1196	U
1	AA	1197	G
1	AA	1200	C
1	AA	1201	A
1	AA	1202	G
1	AA	1203	C
1	AA	1211	U
1	AA	1212	U
1	AA	1213	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1215	G
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A
1	AA	1229	A
1	AA	1240	U
1	AA	1241	G
1	AA	1249	C
1	AA	1256	A
1	AA	1257	U
1	AA	1263	C
1	AA	1269	A
1	AA	1270	C
1	AA	1278	U
1	AA	1279	A
1	AA	1280	A
1	AA	1281	U
1	AA	1282	C
1	AA	1283	G
1	AA	1285	A
1	AA	1286	A
1	AA	1287	A
1	AA	1289	A
1	AA	1292	U
1	AA	1297	C
1	AA	1298	C
1	AA	1301	U
1	AA	1302	U
1	AA	1303	C
1	AA	1305	G
1	AA	1317	C
1	AA	1318	A
1	AA	1319	A
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1331	G
1	AA	1332	A
1	AA	1333	A
1	AA	1345	U
1	AA	1346	A
1	AA	1347	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1348	U
1	AA	1353	G
1	AA	1362(A)	C
1	AA	1363	A
1	AA	1364	U
1	AA	1365	G
1	AA	1375	A
1	AA	1378	C
1	AA	1379	G
1	AA	1381	U
1	AA	1393	U
1	AA	1394	A
1	AA	1395	C
1	AA	1396	A
1	AA	1397	C
1	AA	1398	A
1	AA	1399	C
1	AA	1400	C
1	AA	1401	G
1	AA	1404	C
1	AA	1413	A
1	AA	1419	G
1	AA	1430	C
1	AA	1431	C
1	AA	1432	G
1	AA	1435	G
1	AA	1440	C
1	AA	1442	G
1	AA	1443	G
1	AA	1446	A
1	AA	1447	G
1	AA	1449	C
1	AA	1450	U
1	AA	1451	A
1	AA	1454	G
1	AA	1466	C
1	AA	1467	G
1	AA	1469	G
1	AA	1481	U
1	AA	1484	C
1	AA	1492	A
1	AA	1493	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1494	G
1	AA	1495	U
1	AA	1498	U
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G
1	AA	1520	G
1	AA	1527	C
1	AA	1530	G
1	AA	1531	A
1	AA	1532	U
1	AA	1534	A
2	A1	5	U
2	A1	9	U
2	A1	13	U
2	A1	17	U
2	A1	18	U
2	A1	19	U
2	A1	20	G
2	A1	21	G
2	A1	26	G
2	A1	27	A
2	A1	30	U
2	A1	34	U
2	A1	36	U
2	A1	37	U
2	A1	38	U
2	A1	40	U
2	A1	45	U
2	A1	47	U
2	A1	48	U
2	A1	51	U
2	A1	52	U
3	AC	6	G
3	AC	8	U
3	AC	10	G
3	AC	15	G
3	AC	17	C
3	AC	18	G
3	AC	19	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	AC	20	U
3	AC	40	C
3	AC	41	C
3	AC	43	C
3	AC	46	G
3	AC	47	U
3	AC	48	C
3	AC	49	C
3	AC	58	A
3	AC	59	U
3	AC	60	U
3	AC	61	C
3	AC	64	A
3	AC	74	C
3	AC	75	C
3	AC	76	A
3	AD	10	G
3	AD	13	C
3	AD	17	C
3	AD	18	G
3	AD	19	G
3	AD	27	G
3	AD	34	G
3	AD	35	A
3	AD	36	A
3	AD	40	C
3	AD	41	C
3	AD	42	C
3	AD	45	U
3	AD	46	G
3	AD	48	C
3	AD	49	C
3	AD	52	G
3	AD	56	C
3	AD	58	A
3	AD	59	U
3	AD	61	C
3	AD	74	C
3	AD	76	A
3	AB	2	C
3	AB	3	C
3	AB	4	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	AB	6	G
3	AB	8	U
3	AB	9	A
3	AB	10	G
3	AB	12	U
3	AB	14	A
3	AB	15	G
3	AB	16	U
3	AB	19	G
3	AB	20	U
3	AB	21	A
3	AB	22	G
3	AB	25	C
3	AB	34	G
3	AB	36	A
3	AB	37	A
3	AB	41	C
3	AB	43	C
3	AB	47	U
3	AB	48	C
3	AB	49	C
3	AB	55	U
3	AB	57	G
3	AB	58	A
3	AB	59	U
3	AB	61	C
3	AB	62	C
3	AB	68	C
3	AB	74	C
24	BA	13	A
24	BA	14	A
24	BA	15	G
24	BA	20	C
24	BA	26	G
24	BA	29	U
24	BA	34	C
24	BA	35	G
24	BA	46	C
24	BA	49	A
24	BA	50	U
24	BA	52	A
24	BA	60	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	61	G
24	BA	63	U
24	BA	64	A
24	BA	68	G
24	BA	71	A
24	BA	72	U
24	BA	73	A
24	BA	74	A
24	BA	75	G
24	BA	76	C
24	BA	77	C
24	BA	82	G
24	BA	84	A
24	BA	88	G
24	BA	90	U
24	BA	91	A
24	BA	92	G
24	BA	96	G
24	BA	101	G
24	BA	102	G
24	BA	104	U
24	BA	105	C
24	BA	109	G
24	BA	112	U
24	BA	113	G
24	BA	119	A
24	BA	120	U
24	BA	121	G
24	BA	125	G
24	BA	126	A
24	BA	131	G
24	BA	132	G
24	BA	136	G
24	BA	138	G
24	BA	139	G
24	BA	140	A
24	BA	141(A)	C
24	BA	147	U
24	BA	149	A
24	BA	161	U
24	BA	163	U
24	BA	164	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	171	G
24	BA	178	G
24	BA	180	G
24	BA	181	A
24	BA	182	A
24	BA	192	C
24	BA	193	U
24	BA	196	A
24	BA	197	A
24	BA	199	A
24	BA	200	U
24	BA	201	C
24	BA	204	A
24	BA	205	G
24	BA	206	U
24	BA	216	A
24	BA	218	A
24	BA	221	A
24	BA	222	A
24	BA	223	A
24	BA	228	A
24	BA	229	A
24	BA	230	U
24	BA	232	G
24	BA	233	A
24	BA	234	C
24	BA	241	A
24	BA	242	G
24	BA	244	A
24	BA	245	G
24	BA	247	G
24	BA	248	G
24	BA	249	C
24	BA	250	G
24	BA	251	A
24	BA	252	G
24	BA	254	G
24	BA	264	C
24	BA	265	A
24	BA	266	G
24	BA	270	A
24	BA	270(A)	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	270(B)	A
24	BA	270(C)	C
24	BA	270(E)	G
24	BA	270(G)	C
24	BA	270(K)	C
24	BA	270(L)	U
24	BA	270(M)	U
24	BA	270(N)	G
24	BA	270(V)	G
24	BA	270(Z)	U
24	BA	271(A)	C
24	BA	271(B)	G
24	BA	271(C)	U
24	BA	271	G
24	BA	272	G
24	BA	273(F)	C
24	BA	275	G
24	BA	276	A
24	BA	277	C
24	BA	278	A
24	BA	279	C
24	BA	280	C
24	BA	281	G
24	BA	282	A
24	BA	283	A
24	BA	284	U
24	BA	286	C
24	BA	287	C
24	BA	289	A
24	BA	290	G
24	BA	293	U
24	BA	300	A
24	BA	302	C
24	BA	310	A
24	BA	311	A
24	BA	312	G
24	BA	316	C
24	BA	322	A
24	BA	323	G
24	BA	324	A
24	BA	329	G
24	BA	330	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	332	A
24	BA	333	G
24	BA	339	U
24	BA	341	G
24	BA	342	G
24	BA	345	A
24	BA	347	A
24	BA	348	G
24	BA	349	G
24	BA	350	U
24	BA	351	G
24	BA	352	G
24	BA	354	G
24	BA	356	G
24	BA	359	A
24	BA	360	G
24	BA	361	G
24	BA	363(A)	A
24	BA	363(B)	G
24	BA	364	C
24	BA	365	C
24	BA	366	C
24	BA	370	G
24	BA	372	G
24	BA	373	U
24	BA	374	A
24	BA	377	C
24	BA	382	G
24	BA	386	G
24	BA	387	U
24	BA	388	G
24	BA	390	A
24	BA	391	G
24	BA	395	U
24	BA	397	G
24	BA	401	A
24	BA	404	C
24	BA	405	U
24	BA	406	G
24	BA	408	G
24	BA	411	G
24	BA	412	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	413	C
24	BA	421	U
24	BA	422	A
24	BA	423	A
24	BA	424	G
24	BA	428	A
24	BA	429	A
24	BA	443	A
24	BA	444	C
24	BA	446	G
24	BA	448	U
24	BA	449	A
24	BA	451	C
24	BA	452	G
24	BA	453	C
24	BA	454	A
24	BA	455	C
24	BA	456	C
24	BA	457	A
24	BA	470	A
24	BA	471	A
24	BA	475	U
24	BA	479	A
24	BA	480	A
24	BA	481	G
24	BA	484	C
24	BA	492	A
24	BA	503	A
24	BA	504	U
24	BA	505	A
24	BA	506	G
24	BA	507	A
24	BA	508	G
24	BA	509	C
24	BA	510	C
24	BA	512	G
24	BA	519	U
24	BA	525	U
24	BA	527	C
24	BA	528	A
24	BA	529	A
24	BA	530	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	531	C
24	BA	532	A
24	BA	533	G
24	BA	541	C
24	BA	549	G
24	BA	554	U
24	BA	556	G
24	BA	559	G
24	BA	560	C
24	BA	563	G
24	BA	567	A
24	BA	568	U
24	BA	572	A
24	BA	573	G
24	BA	574	C
24	BA	575	A
24	BA	579	G
24	BA	580	C
24	BA	583	G
24	BA	586	A
24	BA	588	U
24	BA	591	C
24	BA	593	G
24	BA	599	G
24	BA	600	G
24	BA	601	C
24	BA	603	A
24	BA	604	G
24	BA	605	C
24	BA	607	U
24	BA	612	G
24	BA	613	U
24	BA	614	U
24	BA	615	G
24	BA	616	A
24	BA	617	G
24	BA	618(A)	C
24	BA	620	G
24	BA	621	A
24	BA	622	G
24	BA	624	C
24	BA	625	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	626	U
24	BA	627	A
24	BA	629	G
24	BA	631	A
24	BA	634	C
24	BA	637	A
24	BA	641	C
24	BA	643	A
24	BA	644	A
24	BA	646	A
24	BA	650	C
24	BA	651	G
24	BA	653	A
24	BA	654	A
24	BA	655	A
24	BA	656	G
24	BA	657	U
24	BA	665	C
24	BA	666	G
24	BA	668	G
24	BA	669	G
24	BA	670	A
24	BA	671	C
24	BA	674	G
24	BA	684	G
24	BA	686	G
24	BA	687	C
24	BA	698	C
24	BA	704	G
24	BA	705	A
24	BA	713	G
24	BA	714	U
24	BA	715	G
24	BA	716	A
24	BA	718	A
24	BA	723	G
24	BA	727	A
24	BA	728	G
24	BA	729	G
24	BA	730	C
24	BA	731	C
24	BA	734	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	735	A
24	BA	736	C
24	BA	739	G
24	BA	740	U
24	BA	741	G
24	BA	744	G
24	BA	745	G
24	BA	746	A
24	BA	747	U
24	BA	748	G
24	BA	749	C
24	BA	750	A
24	BA	751	A
24	BA	752	A
24	BA	758	C
24	BA	759	G
24	BA	762	U
24	BA	763	G
24	BA	764	A
24	BA	765	G
24	BA	774	A
24	BA	775	G
24	BA	776	G
24	BA	777	A
24	BA	779	U
24	BA	781	A
24	BA	782	A
24	BA	783	A
24	BA	784	A
24	BA	785	G
24	BA	786	C
24	BA	789	A
24	BA	790	C
24	BA	791	C
24	BA	792	G
24	BA	793	A
24	BA	794	G
24	BA	799	G
24	BA	800	A
24	BA	801	G
24	BA	802	A
24	BA	803	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	805	G
24	BA	806	C
24	BA	812	C
24	BA	816	C
24	BA	819	A
24	BA	821	A
24	BA	823	G
24	BA	824	A
24	BA	827	U
24	BA	829	A
24	BA	830	G
24	BA	831	G
24	BA	833	U
24	BA	844	C
24	BA	846	C
24	BA	847	U
24	BA	858	U
24	BA	859	G
24	BA	860	U
24	BA	861	A
24	BA	865	C
24	BA	868	U
24	BA	870	A
24	BA	881	G
24	BA	886	C
24	BA	887	A
24	BA	888	C
24	BA	889	C
24	BA	890	A
24	BA	892	G
24	BA	893	C
24	BA	896	A
24	BA	897	C
24	BA	898	C
24	BA	899	A
24	BA	906	G
24	BA	907	U
24	BA	909	A
24	BA	910	A
24	BA	914	C
24	BA	918	A
24	BA	919	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	920	G
24	BA	930	U
24	BA	931	G
24	BA	932	G
24	BA	933	A
24	BA	939	G
24	BA	941	A
24	BA	943	U
24	BA	944	G
24	BA	945	A
24	BA	946	G
24	BA	956	G
24	BA	957	A
24	BA	958	U
24	BA	959	A
24	BA	961	C
24	BA	962	G
24	BA	965	C
24	BA	972	G
24	BA	973	A
24	BA	974	G
24	BA	974(A)	C
24	BA	976	C
24	BA	982	C
24	BA	983	A
24	BA	987	G
24	BA	990	A
24	BA	995	C
24	BA	996	A
24	BA	997	G
24	BA	1008	C
24	BA	1009	A
24	BA	1011	G
24	BA	1012	U
24	BA	1013	C
24	BA	1021	A
24	BA	1022	G
24	BA	1023	U
24	BA	1024	G
24	BA	1025	G
24	BA	1026	U
24	BA	1027	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	1031	G
24	BA	1032	A
24	BA	1033	U
24	BA	1034	G
24	BA	1039	G
24	BA	1044	G
24	BA	1045	A
24	BA	1046	A
24	BA	1047	G
24	BA	1056	G
24	BA	1060	U
24	BA	1061	U
24	BA	1062	G
24	BA	1064	C
24	BA	1065	U
24	BA	1066	U
24	BA	1067	A
24	BA	1069	A
24	BA	1070	A
24	BA	1071	G
24	BA	1072	C
24	BA	1073	A
24	BA	1076	C
24	BA	1077	A
24	BA	1079	C
24	BA	1084	A
24	BA	1085	A
24	BA	1086	A
24	BA	1087	G
24	BA	1088	A
24	BA	1090	U
24	BA	1093	G
24	BA	1099	G
24	BA	1101	U
24	BA	1103	A
24	BA	1104	C
24	BA	1106	G
24	BA	1110	G
24	BA	1111	A
24	BA	1112	G
24	BA	1113	U
24	BA	1116	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	1126	A
24	BA	1127	A
24	BA	1128	A
24	BA	1130	U
24	BA	1131	G
24	BA	1132	A
24	BA	1134	G
24	BA	1135	C
24	BA	1140	C
24	BA	1141	U
24	BA	1143	A
24	BA	1154	G
24	BA	1155	A
24	BA	1156	A
24	BA	1157	G
24	BA	1160	G
24	BA	1162	G
24	BA	1171	G
24	BA	1173	G
24	BA	1174	A
24	BA	1175	U
24	BA	1176	G
24	BA	1177	A
24	BA	1179	C
24	BA	1180	C
24	BA	1182	A
24	BA	1183	G
24	BA	1184	G
24	BA	1185	C
24	BA	1186	G
24	BA	1190	G
24	BA	1199	U
24	BA	1201	C
24	BA	1203	G
24	BA	1204	A
24	BA	1205	U
24	BA	1207	C
24	BA	1209	G
24	BA	1211	U
24	BA	1212	G
24	BA	1213	A
24	BA	1220	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	1221	C
24	BA	1222	C
24	BA	1225	C
24	BA	1228	G
24	BA	1238	G
24	BA	1241	A
24	BA	1242	A
24	BA	1244	G
24	BA	1247	A
24	BA	1248	G
24	BA	1249	U
24	BA	1251	C
24	BA	1252	G
24	BA	1253	A
24	BA	1254	A
24	BA	1255	U
24	BA	1256	G
24	BA	1258	C
24	BA	1260	G
24	BA	1264	G
24	BA	1265	A
24	BA	1266	G
24	BA	1267	U
24	BA	1268	A
24	BA	1271	G
24	BA	1272	A
24	BA	1273	U
24	BA	1274	A
24	BA	1275	A
24	BA	1286	A
24	BA	1289	C
24	BA	1296	G
24	BA	1297	C
24	BA	1301	A
24	BA	1302	A
24	BA	1303	G
24	BA	1304	C
24	BA	1311	G
24	BA	1312	U
24	BA	1321	A
24	BA	1324	G
24	BA	1325	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	1326	U
24	BA	1327	C
24	BA	1329	U
24	BA	1330	C
24	BA	1335	U
24	BA	1340	U
24	BA	1341	U
24	BA	1342	A
24	BA	1343	G
24	BA	1344	G
24	BA	1345	C
24	BA	1347	G
24	BA	1350	C
24	BA	1364	G
24	BA	1365	A
24	BA	1366	A
24	BA	1368	G
24	BA	1378	A
24	BA	1379	A
24	BA	1388	G
24	BA	1394	U
24	BA	1395	A
24	BA	1397	U
24	BA	1398	C
24	BA	1403	C
24	BA	1407	C
24	BA	1416	G
24	BA	1418	G
24	BA	1419	A
24	BA	1420	U
24	BA	1421	G
24	BA	1424	G
24	BA	1425	G
24	BA	1427	A
24	BA	1428	C
24	BA	1429	G
24	BA	1438	U
24	BA	1444(A)	A
24	BA	1445	C
24	BA	1451	C
24	BA	1453	A
24	BA	1455	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	1456	G
24	BA	1459	G
24	BA	1460	A
24	BA	1462	C
24	BA	1463	C
24	BA	1467	C
24	BA	1468	C
24	BA	1471	A
24	BA	1477	A
24	BA	1478	G
24	BA	1480	G
24	BA	1482	U
24	BA	1485	G
24	BA	1489	U
24	BA	1490	A
24	BA	1491	G
24	BA	1492	G
24	BA	1493	C
24	BA	1494	A
24	BA	1495	A
24	BA	1496	A
24	BA	1497	U
24	BA	1498	C
24	BA	1499	C
24	BA	1507	A
24	BA	1508	A
24	BA	1509	C
24	BA	1510	A
24	BA	1511	A
24	BA	1512	G
24	BA	1513	C
24	BA	1514	U
24	BA	1515	C
24	BA	1516	U
24	BA	1517	G
24	BA	1519	G
24	BA	1521	G
24	BA	1526	G
24	BA	1527	G
24	BA	1529	A
24	BA	1530	G
24	BA	1532	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	1537	C
24	BA	1540	G
24	BA	1542	G
24	BA	1544	C
24	BA	1552	G
24	BA	1553	A
24	BA	1554	A
24	BA	1555	G
24	BA	1558	A
24	BA	1559	G
24	BA	1560	G
24	BA	1561	G
24	BA	1566	A
24	BA	1567	A
24	BA	1569	A
24	BA	1570	A
24	BA	1571	A
24	BA	1572	A
24	BA	1573	G
24	BA	1576	U
24	BA	1577	C
24	BA	1578	U
24	BA	1579	A
24	BA	1580	A
24	BA	1581	G
24	BA	1583	A
24	BA	1585	C
24	BA	1586	A
24	BA	1587	A
24	BA	1591	G
24	BA	1602	U
24	BA	1603	A
24	BA	1607	C
24	BA	1608	A
24	BA	1609	A
24	BA	1610	A
24	BA	1612	C
24	BA	1614	A
24	BA	1615	C
24	BA	1617	C
24	BA	1618	A
24	BA	1619	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	1623	G
24	BA	1625	C
24	BA	1626	G
24	BA	1627	G
24	BA	1631	A
24	BA	1634	A
24	BA	1635	G
24	BA	1640	C
24	BA	1641	A
24	BA	1644	C
24	BA	1645	G
24	BA	1647	G
24	BA	1648	C
24	BA	1649	G
24	BA	1651	G
24	BA	1652	A
24	BA	1653	G
24	BA	1654	A
24	BA	1655	A
24	BA	1656	C
24	BA	1657	C
24	BA	1664	A
24	BA	1667	G
24	BA	1668	A
24	BA	1670	C
24	BA	1673	U
24	BA	1674	G
24	BA	1675	C
24	BA	1678	G
24	BA	1681	G
24	BA	1682	G
24	BA	1683	C
24	BA	1684	C
24	BA	1688	U
24	BA	1694	C
24	BA	1698	A
24	BA	1699	G
24	BA	1700	A
24	BA	1701	A
24	BA	1703	G
24	BA	1706	U
24	BA	1707	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	1709	U
24	BA	1710	C
24	BA	1725	G
24	BA	1728	G
24	BA	1729	A
24	BA	1731	G
24	BA	1732	A
24	BA	1733	G
24	BA	1734	C
24	BA	1741	C
24	BA	1742	C
24	BA	1743	G
24	BA	1746	G
24	BA	1747	G
24	BA	1755	A
24	BA	1757	U
24	BA	1758	G
24	BA	1759	A
24	BA	1762	A
24	BA	1763	G
24	BA	1764	G
24	BA	1773	A
24	BA	1775	U
24	BA	1779	U
24	BA	1780	A
24	BA	1781	C
24	BA	1782	C
24	BA	1783	A
24	BA	1784	A
24	BA	1785	A
24	BA	1790	C
24	BA	1791	A
24	BA	1798	U
24	BA	1799	G
24	BA	1800	C
24	BA	1801	G
24	BA	1802	A
24	BA	1803	A
24	BA	1805	U
24	BA	1809	A
24	BA	1810	A
24	BA	1815	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	1816	G
24	BA	1817	G
24	BA	1819	A
24	BA	1820	U
24	BA	1821	A
24	BA	1826	G
24	BA	1828	G
24	BA	1829	A
24	BA	1834	U
24	BA	1839	G
24	BA	1840	G
24	BA	1847	A
24	BA	1848	A
24	BA	1852	C
24	BA	1853	A
24	BA	1857	G
24	BA	1858	G
24	BA	1878	G
24	BA	1880	C
24	BA	1881	C
24	BA	1884	A
24	BA	1901	A
24	BA	1906	G
24	BA	1911	U
24	BA	1913	A
24	BA	1914	C
24	BA	1915	U
24	BA	1916	A
24	BA	1917	U
24	BA	1919	A
24	BA	1920	C
24	BA	1923	U
24	BA	1929	G
24	BA	1930	G
24	BA	1931	U
24	BA	1934	C
24	BA	1936	A
24	BA	1937	A
24	BA	1938	A
24	BA	1939	U
24	BA	1940	U
24	BA	1941	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	1942	C
24	BA	1943	U
24	BA	1944	U
24	BA	1945	G
24	BA	1946	U
24	BA	1953	A
24	BA	1954	G
24	BA	1955	U
24	BA	1956	U
24	BA	1958	C
24	BA	1962	C
24	BA	1964	G
24	BA	1965	C
24	BA	1966	A
24	BA	1967	C
24	BA	1968	G
24	BA	1970	A
24	BA	1971	A
24	BA	1972	A
24	BA	1977	A
24	BA	1978	A
24	BA	1981	A
24	BA	1982	C
24	BA	1989	G
24	BA	1992	G
24	BA	1993	U
24	BA	1995	U
24	BA	1996	C
24	BA	1997	G
24	BA	2000	G
24	BA	2005	A
24	BA	2014	A
24	BA	2015	A
24	BA	2016	U
24	BA	2018	G
24	BA	2019	A
24	BA	2020	A
24	BA	2021	C
24	BA	2022	U
24	BA	2023	G
24	BA	2030	A
24	BA	2031	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	2032	G
24	BA	2033	A
24	BA	2034	U
24	BA	2035	G
24	BA	2041	U
24	BA	2043	C
24	BA	2044	C
24	BA	2048	G
24	BA	2050	C
24	BA	2051	A
24	BA	2052	G
24	BA	2055	C
24	BA	2056	G
24	BA	2060	A
24	BA	2061	G
24	BA	2062	A
24	BA	2063	C
24	BA	2064	C
24	BA	2068	U
24	BA	2069	G
24	BA	2073	C
24	BA	2074	U
24	BA	2075	U
24	BA	2076	U
24	BA	2077	A
24	BA	2080	G
24	BA	2092	U
24	BA	2093	G
24	BA	2094	G
24	BA	2110	G
24	BA	2111	C
24	BA	2114	A
24	BA	2116	G
24	BA	2117	A
24	BA	2119	A
24	BA	2120	G
24	BA	2123	G
24	BA	2126	A
24	BA	2127	G
24	BA	2132	U
24	BA	2133	G
24	BA	2134	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	2135	A
24	BA	2136	C
24	BA	2144	U
24	BA	2148	G
24	BA	2156	G
24	BA	2157	G
24	BA	2158	A
24	BA	2159	G
24	BA	2165	G
24	BA	2172	U
24	BA	2173	A
24	BA	2185	C
24	BA	2194	G
24	BA	2195	C
24	BA	2196	C
24	BA	2197	U
24	BA	2198	A
24	BA	2205	C
24	BA	2206	C
24	BA	2208	U
24	BA	2209	C
24	BA	2210	G
24	BA	2211	G
24	BA	2212	A
24	BA	2213	U
24	BA	2224	G
24	BA	2225	A
24	BA	2226	C
24	BA	2227	A
24	BA	2228	G
24	BA	2238	G
24	BA	2239	G
24	BA	2240	C
24	BA	2245	U
24	BA	2250	G
24	BA	2251	G
24	BA	2254	C
24	BA	2257	U
24	BA	2258	C
24	BA	2265	U
24	BA	2266	A
24	BA	2267	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	2268	A
24	BA	2269	A
24	BA	2274	A
24	BA	2275	C
24	BA	2276	G
24	BA	2278	A
24	BA	2281	C
24	BA	2283	C
24	BA	2284	C
24	BA	2286	A
24	BA	2287	A
24	BA	2288	A
24	BA	2289	G
24	BA	2290	G
24	BA	2291	U
24	BA	2297	C
24	BA	2305	A
24	BA	2306	C
24	BA	2307	G
24	BA	2308	G
24	BA	2309	A
24	BA	2310	A
24	BA	2311	A
24	BA	2312	U
24	BA	2316	C
24	BA	2318	G
24	BA	2319	G
24	BA	2320	A
24	BA	2321	G
24	BA	2322	A
24	BA	2323	G
24	BA	2325	G
24	BA	2327	A
24	BA	2333	A
24	BA	2334	G
24	BA	2337	G
24	BA	2344	U
24	BA	2345	G
24	BA	2346	A
24	BA	2347	C
24	BA	2349	G
24	BA	2350	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	2351	G
24	BA	2356	C
24	BA	2357	U
24	BA	2358	G
24	BA	2360	A
24	BA	2361	A
24	BA	2362	G
24	BA	2372	G
24	BA	2373	G
24	BA	2374	C
24	BA	2377	A
24	BA	2379	G
24	BA	2382	G
24	BA	2383	G
24	BA	2384	G
24	BA	2385	C
24	BA	2387	U
24	BA	2389	G
24	BA	2390	U
24	BA	2393	A
24	BA	2402	C
24	BA	2403	C
24	BA	2406	U
24	BA	2407	G
24	BA	2416	C
24	BA	2417	C
24	BA	2423	U
24	BA	2424	C
24	BA	2425	A
24	BA	2426	A
24	BA	2427	C
24	BA	2428	G
24	BA	2429	G
24	BA	2430	A
24	BA	2431	U
24	BA	2432	A
24	BA	2433	A
24	BA	2434	A
24	BA	2435	A
24	BA	2437	U
24	BA	2439	A
24	BA	2440	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	2441	C
24	BA	2444	G
24	BA	2445	G
24	BA	2447	G
24	BA	2448	A
24	BA	2449	U
24	BA	2460	U
24	BA	2469	A
24	BA	2475	C
24	BA	2476	A
24	BA	2480	C
24	BA	2490	G
24	BA	2491	U
24	BA	2492	U
24	BA	2493	U
24	BA	2496	C
24	BA	2497	A
24	BA	2498	C
24	BA	2499	C
24	BA	2500	U
24	BA	2501	C
24	BA	2502	G
24	BA	2503	A
24	BA	2504	U
24	BA	2505	G
24	BA	2510	C
24	BA	2513	G
24	BA	2518	A
24	BA	2519	U
24	BA	2520	C
24	BA	2523	G
24	BA	2526	G
24	BA	2527	C
24	BA	2529	G
24	BA	2531	A
24	BA	2532	G
24	BA	2535	G
24	BA	2539	C
24	BA	2542	A
24	BA	2543	G
24	BA	2547	U
24	BA	2548	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	2551	C
24	BA	2554	U
24	BA	2555	U
24	BA	2556	C
24	BA	2563	U
24	BA	2566	A
24	BA	2567	G
24	BA	2572	A
24	BA	2573	C
24	BA	2575	C
24	BA	2576	G
24	BA	2577	A
24	BA	2578	G
24	BA	2580	U
24	BA	2582	G
24	BA	2585	U
24	BA	2586	C
24	BA	2593	U
24	BA	2602	A
24	BA	2603	G
24	BA	2606	C
24	BA	2609	U
24	BA	2610	C
24	BA	2611	U
24	BA	2613	U
24	BA	2614	A
24	BA	2615	U
24	BA	2616	C
24	BA	2617	C
24	BA	2620	C
24	BA	2625	G
24	BA	2626	C
24	BA	2628	C
24	BA	2629	A
24	BA	2630	G
24	BA	2637	U
24	BA	2638	G
24	BA	2640	G
24	BA	2644	G
24	BA	2645	G
24	BA	2646	C
24	BA	2654	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	2655	G
24	BA	2661	G
24	BA	2663	G
24	BA	2664	G
24	BA	2666	C
24	BA	2682	U
24	BA	2683	C
24	BA	2685	G
24	BA	2689	U
24	BA	2690	C
24	BA	2691	C
24	BA	2699	C
24	BA	2701	C
24	BA	2702	U
24	BA	2704	C
24	BA	2706	G
24	BA	2708	G
24	BA	2710	C
24	BA	2711	A
24	BA	2712	U
24	BA	2712(A)	A
24	BA	2714	G
24	BA	2719	G
24	BA	2720	U
24	BA	2725	A
24	BA	2726	U
24	BA	2727	G
24	BA	2732	G
24	BA	2733	A
24	BA	2734	A
24	BA	2748	A
24	BA	2749	A
24	BA	2750	A
24	BA	2751	G
24	BA	2754	U
24	BA	2756	U
24	BA	2757	A
24	BA	2758	A
24	BA	2766	G
24	BA	2772	C
24	BA	2777	G
24	BA	2778	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	2779	U
24	BA	2780	G
24	BA	2781	A
24	BA	2782	G
24	BA	2783	G
24	BA	2787	C
24	BA	2789	C
24	BA	2790	A
24	BA	2791	C
24	BA	2795	G
24	BA	2797	U
24	BA	2798	C
24	BA	2799	A
24	BA	2801	A
24	BA	2803	C
24	BA	2804	C
24	BA	2805	G
24	BA	2807	G
24	BA	2809	A
24	BA	2810	A
24	BA	2812	G
24	BA	2814	C
24	BA	2815	C
24	BA	2820	A
24	BA	2821	A
24	BA	2822	G
24	BA	2823	A
24	BA	2832	U
24	BA	2833	G
24	BA	2834	G
24	BA	2835	A
24	BA	2836	U
24	BA	2843	G
24	BA	2844	G
24	BA	2845	G
24	BA	2847	U
24	BA	2849	U
24	BA	2850	A
24	BA	2851	A
24	BA	2852	G
24	BA	2858	C
24	BA	2861	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	2866	U
24	BA	2867	G
24	BA	2868	A
24	BA	2872	G
24	BA	2874	C
24	BA	2877	G
24	BA	2878	U
24	BA	2879	C
24	BA	2880	C
24	BA	2883	A
24	BA	2891	G
24	BA	2892	A
24	BA	2893	G
24	BA	2894	G
24	BA	2899	G
25	BB	0	A
25	BB	1	U
25	BB	2	C
25	BB	3	C
25	BB	5	C
25	BB	6	C
25	BB	8	U
25	BB	12	C
25	BB	13	A
25	BB	15	A
25	BB	16	G
25	BB	25	A
25	BB	32	C
25	BB	35	U
25	BB	36	C
25	BB	41	U
25	BB	42	C
25	BB	45	A
25	BB	46	A
25	BB	51	G
25	BB	52	A
25	BB	54	G
25	BB	57	A
25	BB	66	A
25	BB	67	G
25	BB	69	G
25	BB	73	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	BB	74	U
25	BB	75	G
25	BB	83	G
25	BB	85	G
25	BB	87	G
25	BB	88	C
25	BB	89	G
25	BB	90	C
25	BB	99	A
25	BB	101	A
25	BB	103	U
25	BB	105	G
25	BB	109	G
25	BB	111	U
25	BB	116	G
25	BB	117	G
25	BB	118	G
25	BB	119	A
25	BB	120	U

All (403) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	5	U
1	AA	8	A
1	AA	30	U
1	AA	31	G
1	AA	47	C
1	AA	51	A
1	AA	60	A
1	AA	65	U
1	AA	88	C
1	AA	99	C
1	AA	109	A
1	AA	115	G
1	AA	119	A
1	AA	129(A)	G
1	AA	181	G
1	AA	190	G
1	AA	208	U
1	AA	210	U
1	AA	243	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	244	U
1	AA	246	A
1	AA	250	A
1	AA	251	G
1	AA	266	G
1	AA	274	A
1	AA	279	A
1	AA	280	C
1	AA	281	G
1	AA	305	G
1	AA	308	C
1	AA	327	A
1	AA	328	C
1	AA	329	A
1	AA	344	A
1	AA	345	C
1	AA	351	G
1	AA	366	C
1	AA	367	U
1	AA	372	C
1	AA	413	G
1	AA	428	G
1	AA	429	U
1	AA	451	A
1	AA	484	G
1	AA	495	A
1	AA	496	A
1	AA	498	A
1	AA	508	C
1	AA	518	C
1	AA	531	U
1	AA	535	A
1	AA	547	A
1	AA	559	A
1	AA	560	U
1	AA	562	C
1	AA	563	A
1	AA	566	G
1	AA	576	G
1	AA	652	U
1	AA	686	U
1	AA	687	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	701	C
1	AA	702	A
1	AA	703	G
1	AA	717	C
1	AA	721	G
1	AA	723	U
1	AA	748	C
1	AA	753	A
1	AA	781	A
1	AA	792	A
1	AA	793	U
1	AA	812	C
1	AA	815	A
1	AA	816	A
1	AA	817	C
1	AA	818	G
1	AA	819	A
1	AA	820	U
1	AA	871	U
1	AA	872	A
1	AA	873	A
1	AA	889	A
1	AA	890	G
1	AA	901	A
1	AA	913	A
1	AA	918	A
1	AA	960	U
1	AA	965	A
1	AA	968	A
1	AA	974	A
1	AA	975	A
1	AA	992	U
1	AA	993	G
1	AA	1004	A
1	AA	1049	U
1	AA	1055	A
1	AA	1065	U
1	AA	1067	A
1	AA	1084	G
1	AA	1085	U
1	AA	1101	A
1	AA	1129	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1145	C
1	AA	1159	U
1	AA	1182	G
1	AA	1183	A
1	AA	1196	U
1	AA	1212	U
1	AA	1214	C
1	AA	1224	G
1	AA	1226	C
1	AA	1239	A
1	AA	1240	U
1	AA	1285	A
1	AA	1297	C
1	AA	1300	G
1	AA	1302	U
1	AA	1322	C
1	AA	1331	G
1	AA	1345	U
1	AA	1346	A
1	AA	1347	G
1	AA	1363	A
1	AA	1364	U
1	AA	1377	A
1	AA	1394	A
1	AA	1399	C
1	AA	1400	C
1	AA	1446	A
1	AA	1468	A
1	AA	1502	A
1	AA	1504	G
1	AA	1505	G
1	AA	1528	U
1	AA	1529	G
1	AA	1531	A
2	A1	17	U
2	A1	36	U
2	A1	50	U
2	A1	51	U
3	AC	7	A
3	AC	9	A
3	AC	58	A
3	AC	73	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	AD	58	A
3	AB	58	A
24	BA	13	A
24	BA	60	G
24	BA	67	U
24	BA	70	G
24	BA	71	A
24	BA	83	G
24	BA	90	U
24	BA	119	A
24	BA	125	G
24	BA	196	A
24	BA	199	A
24	BA	204	A
24	BA	205	G
24	BA	215	G
24	BA	221	A
24	BA	227	A
24	BA	251	A
24	BA	270(B)	A
24	BA	270(L)	U
24	BA	270(M)	U
24	BA	270(Z)	U
24	BA	271(B)	G
24	BA	280	C
24	BA	283	A
24	BA	311	A
24	BA	323	G
24	BA	329	G
24	BA	331	A
24	BA	332	A
24	BA	351	G
24	BA	371	A
24	BA	403	U
24	BA	442	G
24	BA	455	C
24	BA	470	A
24	BA	503	A
24	BA	504	U
24	BA	506	G
24	BA	508	G
24	BA	526	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	530	G
24	BA	559	G
24	BA	573	G
24	BA	574	C
24	BA	587	C
24	BA	602	G
24	BA	616	A
24	BA	620	G
24	BA	637	A
24	BA	643	A
24	BA	645	C
24	BA	669	G
24	BA	670	A
24	BA	685	A
24	BA	686	G
24	BA	730	C
24	BA	740	U
24	BA	745	G
24	BA	746	A
24	BA	747	U
24	BA	750	A
24	BA	762	U
24	BA	773	U
24	BA	774	A
24	BA	776	G
24	BA	782	A
24	BA	783	A
24	BA	785	G
24	BA	788	A
24	BA	789	A
24	BA	800	A
24	BA	801	G
24	BA	811	U
24	BA	829	A
24	BA	830	G
24	BA	846	C
24	BA	858	U
24	BA	930	U
24	BA	944	G
24	BA	945	A
24	BA	957	A
24	BA	958	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	960	A
24	BA	961	C
24	BA	973	A
24	BA	974(A)	C
24	BA	989	G
24	BA	1008	C
24	BA	1011	G
24	BA	1022	G
24	BA	1024	G
24	BA	1064	C
24	BA	1078	U
24	BA	1085	A
24	BA	1100	C
24	BA	1109	C
24	BA	1110	G
24	BA	1126	A
24	BA	1130	U
24	BA	1131	G
24	BA	1154	G
24	BA	1178	C
24	BA	1179	C
24	BA	1183	G
24	BA	1203	G
24	BA	1204	A
24	BA	1210	A
24	BA	1212	G
24	BA	1221	C
24	BA	1237	A
24	BA	1241	A
24	BA	1247	A
24	BA	1248	G
24	BA	1250	G
24	BA	1253	A
24	BA	1267	U
24	BA	1272	A
24	BA	1288	U
24	BA	1300	U
24	BA	1302	A
24	BA	1323	U
24	BA	1342	A
24	BA	1349	A
24	BA	1378	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	1379	A
24	BA	1406	U
24	BA	1420	U
24	BA	1427	A
24	BA	1428	C
24	BA	1444(A)	A
24	BA	1477	A
24	BA	1489	U
24	BA	1515	C
24	BA	1554	A
24	BA	1558	A
24	BA	1566	A
24	BA	1568	G
24	BA	1572	A
24	BA	1585	C
24	BA	1603	A
24	BA	1608	A
24	BA	1610	A
24	BA	1625	C
24	BA	1626	G
24	BA	1634	A
24	BA	1647	G
24	BA	1650	G
24	BA	1693	U
24	BA	1694	C
24	BA	1698	A
24	BA	1699	G
24	BA	1727	U
24	BA	1758	G
24	BA	1778	U
24	BA	1780	A
24	BA	1784	A
24	BA	1791	A
24	BA	1800	C
24	BA	1801	G
24	BA	1819	A
24	BA	1820	U
24	BA	1828	G
24	BA	1930	G
24	BA	1936	A
24	BA	1937	A
24	BA	1938	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	1940	U
24	BA	1943	U
24	BA	1962	C
24	BA	1964	G
24	BA	1966	A
24	BA	1970	A
24	BA	1977	A
24	BA	1980	G
24	BA	1981	A
24	BA	1992	G
24	BA	1996	C
24	BA	2017	U
24	BA	2021	C
24	BA	2022	U
24	BA	2030	A
24	BA	2032	G
24	BA	2033	A
24	BA	2047	U
24	BA	2049	G
24	BA	2051	A
24	BA	2055	C
24	BA	2073	C
24	BA	2076	U
24	BA	2110	G
24	BA	2111	C
24	BA	2118	U
24	BA	2126	A
24	BA	2157	G
24	BA	2158	A
24	BA	2171	A
24	BA	2172	U
24	BA	2210	G
24	BA	2213	U
24	BA	2225	A
24	BA	2240	C
24	BA	2275	C
24	BA	2282	G
24	BA	2319	G
24	BA	2324	C
24	BA	2345	G
24	BA	2350	C
24	BA	2384	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	2392	A
24	BA	2416	C
24	BA	2422	A
24	BA	2427	C
24	BA	2428	G
24	BA	2436	G
24	BA	2439	A
24	BA	2447	G
24	BA	2490	G
24	BA	2491	U
24	BA	2497	A
24	BA	2500	U
24	BA	2501	C
24	BA	2503	A
24	BA	2517	C
24	BA	2519	U
24	BA	2542	A
24	BA	2571	C
24	BA	2572	A
24	BA	2602	A
24	BA	2609	U
24	BA	2610	C
24	BA	2613	U
24	BA	2615	U
24	BA	2637	U
24	BA	2654	A
24	BA	2688	U
24	BA	2689	U
24	BA	2690	C
24	BA	2705	A
24	BA	2707	G
24	BA	2726	U
24	BA	2755	C
24	BA	2756	U
24	BA	2776	A
24	BA	2777	G
24	BA	2778	A
24	BA	2790	A
24	BA	2799	A
24	BA	2835	A
24	BA	2848	G
24	BA	2849	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BA	2866	U
24	BA	2879	C
24	BA	2893	G
25	BB	7	G
25	BB	15	A
25	BB	56	G

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
24	BA	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	BA	1203:G	O3'	1204:A	P	1.19

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AA	1515/1522 (99%)	-0.21	16 (1%) 77 65	145, 221, 302, 356	0
2	A1	50/50 (100%)	1.67	12 (24%) 1 4	200, 320, 348, 357	0
3	AB	76/76 (100%)	18.41	70 (92%) 0 2	288, 351, 370, 374	0
3	AC	76/76 (100%)	1.12	22 (28%) 1 4	167, 214, 260, 284	0
3	AD	76/76 (100%)	0.63	11 (14%) 3 8	222, 271, 293, 316	0
4	AE	234/256 (91%)	-0.15	2 (0%) 81 70	189, 226, 271, 304	0
5	AF	206/239 (86%)	0.44	20 (9%) 8 15	222, 244, 266, 277	0
6	AG	208/209 (99%)	0.36	26 (12%) 5 11	168, 215, 233, 242	0
7	AH	150/162 (92%)	0.04	3 (2%) 62 51	174, 210, 235, 257	0
8	AI	101/101 (100%)	2.51	58 (57%) 0 3	191, 223, 236, 261	0
9	AJ	155/156 (99%)	1.39	47 (30%) 1 4	210, 240, 256, 275	0
10	AK	138/138 (100%)	-0.42	0 100 100	186, 208, 225, 232	0
11	AL	127/128 (99%)	-0.49	0 100 100	222, 261, 276, 287	0
12	AM	98/105 (93%)	0.16	3 (3%) 47 41	230, 260, 274, 282	0
13	AN	119/129 (92%)	1.57	36 (30%) 1 4	193, 212, 245, 267	0
14	AO	124/132 (93%)	1.56	38 (30%) 1 4	179, 199, 233, 267	0
15	AP	125/126 (99%)	0.07	6 (4%) 29 30	223, 243, 272, 278	0
16	AQ	60/61 (98%)	0.11	3 (5%) 28 29	215, 248, 259, 263	0
17	AR	88/89 (98%)	0.29	7 (7%) 12 19	186, 207, 231, 238	0
18	AS	83/88 (94%)	-0.05	2 (2%) 56 47	180, 201, 226, 249	0
19	AT	104/105 (99%)	0.65	13 (12%) 5 11	164, 193, 244, 277	0
20	AU	73/88 (82%)	0.18	10 (13%) 4 9	184, 209, 258, 287	0
21	AV	80/93 (86%)	0.66	15 (18%) 2 6	226, 252, 266, 270	0
22	AW	99/106 (93%)	1.08	29 (29%) 1 4	167, 195, 225, 241	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
23	AX	24/27 (88%)	-0.42	0	100	100	230, 249, 280, 288	0
24	BA	2889/2916 (99%)	-0.10	204 (7%)	16	21	129, 215, 297, 342	0
25	BB	123/123 (100%)	-0.50	0	100	100	199, 259, 293, 316	0
26	BC	228/229 (99%)	1.23	44 (19%)	2	5	250, 281, 300, 313	0
27	BD	272/276 (98%)	4.12	222 (81%)	0	2	130, 199, 221, 259	0
28	BE	206/206 (100%)	-0.15	1 (0%)	88	80	148, 186, 232, 269	0
29	BF	208/210 (99%)	0.35	24 (11%)	5	12	164, 238, 263, 276	0
30	BG	182/182 (100%)	0.72	29 (15%)	3	8	212, 246, 268, 276	0
31	BH	174/180 (96%)	-0.38	0	100	100	196, 241, 260, 271	0
32	BK	148/148 (100%)	-0.20	1 (0%)	84	74	202, 227, 249, 257	0
33	BL	138/147 (93%)	0.20	11 (7%)	12	19	271, 298, 312, 327	0
34	BM	139/140 (99%)	-0.13	2 (1%)	72	60	167, 198, 224, 235	0
35	BN	122/122 (100%)	0.60	9 (7%)	14	21	148, 177, 209, 221	0
36	BO	145/150 (96%)	1.81	46 (31%)	1	4	166, 247, 276, 315	0
37	BP	136/141 (96%)	1.45	42 (30%)	1	4	166, 208, 234, 241	0
38	BQ	117/118 (99%)	0.38	7 (5%)	21	25	168, 192, 219, 226	0
39	BR	110/112 (98%)	0.45	7 (6%)	19	24	186, 235, 263, 289	0
40	BS	117/146 (80%)	0.49	7 (5%)	21	25	164, 194, 227, 242	0
41	BT	117/118 (99%)	-0.03	1 (0%)	81	70	183, 202, 220, 232	0
42	BU	101/101 (100%)	0.08	5 (4%)	28	29	168, 225, 246, 257	0
43	BV	110/113 (97%)	0.89	21 (19%)	2	5	180, 209, 237, 248	0
44	BW	94/96 (97%)	1.48	29 (30%)	1	4	212, 232, 280, 288	0
45	BX	110/110 (100%)	-0.08	7 (6%)	19	24	221, 255, 287, 305	0
46	BY	180/206 (87%)	0.47	18 (10%)	8	15	208, 246, 268, 279	0
47	BZ	85/85 (100%)	1.65	23 (27%)	1	4	211, 229, 242, 271	0
48	B1	67/67 (100%)	0.14	1 (1%)	70	58	218, 243, 263, 268	0
49	B2	59/60 (98%)	0.50	5 (8%)	11	18	204, 224, 249, 259	0
50	B3	71/71 (100%)	1.85	32 (45%)	1	3	199, 223, 238, 246	0
51	B4	57/60 (95%)	0.20	2 (3%)	42	38	164, 209, 264, 289	0
52	B5	49/54 (90%)	3.22	32 (65%)	0	3	206, 232, 242, 252	0
53	B6	49/49 (100%)	3.27	38 (77%)	0	2	162, 209, 221, 235	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
54	B7	64/65 (98%)	1.60	21 (32%) 1 4	164, 195, 225, 242	0
55	B8	37/37 (100%)	-0.53	0 100 100	205, 215, 224, 226	0
All	All	10893/11176 (97%)	0.49	1340 (12%) 5 11	129, 223, 295, 374	0

All (1340) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	AB	4	C	43.7
3	AB	3	C	43.3
3	AB	67	C	42.5
3	AB	2	C	42.1
3	AB	5	G	40.1
3	AB	70	G	40.0
3	AB	71	G	38.7
3	AB	69	G	38.3
3	AB	66	U	37.3
3	AB	17	C	34.4
3	AB	19	G	33.8
3	AB	1	G	33.4
3	AB	68	C	31.7
3	AB	73	A	31.6
3	AB	13	C	31.5
3	AB	47	U	30.9
3	AB	16	U	28.8
36	BO	123	LEU	28.0
3	AB	6	G	27.5
3	AB	72	C	27.1
3	AB	7	A	27.0
3	AB	45	U	25.6
3	AB	65	G	25.4
3	AB	44	G	24.4
3	AB	8	U	24.2
3	AB	46	G	22.9
3	AB	49	C	22.9
3	AB	20	U	22.4
3	AB	9	A	22.0
3	AB	10	G	21.7
3	AB	50	U	19.5
3	AB	12	U	19.3
3	AB	14	A	19.2
3	AB	57	G	18.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
3	AB	15	G	18.1
3	AB	43	C	17.2
3	AB	21	A	17.1
3	AB	22	G	17.0
3	AB	29	G	16.8
3	AB	76	A	16.7
3	AB	11	C	16.5
3	AB	18	G	15.8
3	AB	42	C	15.3
3	AB	48	C	14.3
3	AB	64	A	14.2
3	AB	75	C	13.8
2	A1	50	U	13.4
3	AB	28	G	13.4
3	AB	30	G	13.2
2	A1	51	U	12.9
3	AB	31	A	12.6
3	AB	74	C	12.5
3	AB	60	U	12.4
3	AC	17	C	11.9
3	AB	23	A	11.6
27	BD	104	TYR	11.3
3	AB	40	C	11.3
27	BD	103	ARG	10.8
26	BC	140	PRO	10.8
3	AB	27	G	10.8
24	BA	1729	A	10.7
3	AB	26	A	10.6
52	B5	6	ARG	10.3
3	AB	41	C	10.3
26	BC	2	LYS	10.3
37	BP	93	TYR	10.3
27	BD	83	GLU	10.2
26	BC	1	PRO	10.2
27	BD	9	TYR	10.1
3	AB	56	C	10.0
3	AB	51	U	9.9
2	A1	52	U	9.9
24	BA	1741	C	9.8
27	BD	174	ILE	9.6
27	BD	173	VAL	9.5
24	BA	1732	A	9.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
47	BZ	85	ALA	9.4
3	AB	24	G	9.4
2	A1	49	U	9.2
26	BC	126	LYS	9.2
24	BA	1735	C	9.2
27	BD	167	GLY	9.1
27	BD	111	LEU	9.0
3	AC	16	U	9.0
46	BY	106	GLY	9.0
27	BD	84	TYR	9.0
44	BW	68	ARG	9.0
27	BD	7	LYS	8.8
3	AB	59	U	8.7
26	BC	124	GLY	8.5
27	BD	184	LYS	8.5
26	BC	125	SER	8.4
24	BA	1728	G	8.4
39	BR	112	PHE	8.2
27	BD	168	ARG	8.2
24	BA	1725	G	8.1
27	BD	91	ARG	8.1
3	AB	25	C	8.1
30	BG	71	THR	8.1
22	AW	48	LYS	8.1
39	BR	111	GLU	8.1
27	BD	119	ALA	8.0
36	BO	144	GLU	8.0
27	BD	166	GLN	7.8
52	B5	35	GLU	7.8
27	BD	175	LEU	7.7
47	BZ	6	GLY	7.7
27	BD	201	HIS	7.7
47	BZ	3	HIS	7.7
27	BD	198	ASN	7.6
36	BO	119	GLU	7.6
30	BG	74	LYS	7.6
27	BD	110	GLY	7.6
47	BZ	2	ALA	7.6
13	AN	13	GLN	7.6
36	BO	145	PRO	7.5
27	BD	69	ARG	7.5
27	BD	63	ARG	7.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
27	BD	140	THR	7.5
47	BZ	84	LEU	7.5
8	AI	52	ILE	7.5
22	AW	46	GLU	7.4
27	BD	102	LYS	7.4
19	AT	101	ARG	7.3
24	BA	1734	C	7.3
13	AN	11	LYS	7.3
27	BD	96	HIS	7.3
26	BC	104	LEU	7.3
27	BD	13	ARG	7.2
27	BD	169	GLU	7.2
52	B5	8	LYS	7.2
27	BD	195	ALA	7.2
27	BD	97	TYR	7.2
13	AN	128	ALA	7.2
27	BD	81	ALA	7.1
27	BD	62	TYR	7.1
8	AI	59	TYR	7.1
27	BD	22	SER	7.1
3	AD	11	C	7.1
50	B3	36	CYS	7.1
27	BD	183	ARG	7.1
27	BD	24	ILE	7.1
27	BD	27	THR	7.1
27	BD	191	ALA	7.1
53	B6	21	ARG	7.0
27	BD	164	GLN	7.0
36	BO	121	LYS	7.0
27	BD	11	PRO	7.0
27	BD	95	LEU	6.9
27	BD	120	GLY	6.9
14	AO	19	ARG	6.9
15	AP	123	ALA	6.9
43	BV	92	ARG	6.8
43	BV	93	ALA	6.8
8	AI	55	ASP	6.8
26	BC	127	LEU	6.7
27	BD	25	THR	6.7
37	BP	92	GLY	6.7
19	AT	102	GLY	6.7
26	BC	141	LYS	6.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
26	BC	121	GLY	6.7
26	BC	3	HIS	6.6
36	BO	83	VAL	6.6
27	BD	26	LYS	6.6
27	BD	109	ASP	6.6
27	BD	90	ALA	6.6
27	BD	5	LYS	6.6
8	AI	57	GLN	6.6
14	AO	41	ARG	6.6
27	BD	94	LEU	6.5
24	BA	1554	A	6.5
52	B5	36	LEU	6.5
27	BD	38	LYS	6.5
27	BD	171	ASP	6.5
13	AN	12	ARG	6.5
33	BL	85	GLU	6.5
8	AI	51	PRO	6.4
47	BZ	7	LEU	6.5
3	AB	58	A	6.4
26	BC	129	ARG	6.4
29	BF	78	ILE	6.4
27	BD	112	GLN	6.4
27	BD	268	ARG	6.4
29	BF	70	THR	6.4
36	BO	122	PRO	6.4
27	BD	182	LEU	6.4
52	B5	10	LEU	6.4
13	AN	110	ASP	6.3
27	BD	68	LYS	6.3
36	BO	91	PHE	6.3
27	BD	28	GLU	6.3
27	BD	190	TYR	6.3
8	AI	58	GLY	6.3
27	BD	37	LEU	6.3
26	BC	100	ILE	6.3
27	BD	165	ILE	6.3
1	AA	210	U	6.2
9	AJ	111	ARG	6.2
8	AI	10	LEU	6.2
27	BD	72	LYS	6.2
3	AB	32	U	6.2
27	BD	121	PRO	6.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
13	AN	127	LYS	6.2
27	BD	65	ILE	6.2
24	BA	1509	C	6.1
27	BD	130	ALA	6.1
29	BF	65	TRP	6.1
21	AV	61	TYR	6.1
26	BC	122	ALA	6.1
22	AW	96	GLY	6.1
30	BG	48	GLU	6.1
27	BD	123	ALA	6.0
14	AO	20	LYS	6.0
53	B6	41	ARG	6.0
53	B6	27	GLY	6.0
14	AO	64	TYR	6.0
52	B5	7	ILE	6.0
3	AD	75	C	6.0
2	A1	48	U	6.0
27	BD	200	ASP	6.0
24	BA	2210	G	5.9
52	B5	51	GLU	5.9
27	BD	23	GLU	5.9
53	B6	22	MET	5.9
27	BD	101	GLU	5.9
22	AW	97	ALA	5.9
27	BD	61	LEU	5.9
27	BD	64	ILE	5.8
27	BD	92	ILE	5.8
3	AB	55	U	5.8
27	BD	197	GLY	5.8
27	BD	115	GLN	5.8
5	AF	201	TYR	5.7
14	AO	39	VAL	5.7
24	BA	886	C	5.7
29	BF	64	ILE	5.7
27	BD	6	PHE	5.7
27	BD	33	LEU	5.7
29	BF	68	LYS	5.7
27	BD	113	VAL	5.7
43	BV	94	ASP	5.7
14	AO	57	LYS	5.7
24	BA	1926	U	5.7
22	AW	100	ILE	5.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
27	BD	82	ILE	5.7
9	AJ	132	GLY	5.6
44	BW	69	TYR	5.6
52	B5	52	VAL	5.6
3	AB	39	U	5.6
47	BZ	5	LYS	5.6
27	BD	172	TYR	5.5
27	BD	8	PRO	5.5
27	BD	129	ASN	5.5
43	BV	85	VAL	5.5
27	BD	80	ALA	5.5
5	AF	79	ARG	5.5
30	BG	149	VAL	5.5
36	BO	147	LEU	5.5
50	B3	21	VAL	5.5
27	BD	108	PRO	5.5
24	BA	1367	A	5.5
29	BF	61	GLY	5.5
52	B5	34	LEU	5.5
36	BO	84	ASN	5.5
52	B5	53	LYS	5.5
8	AI	56	PRO	5.4
24	BA	1694	C	5.4
24	BA	2557	G	5.4
27	BD	272	ALA	5.4
24	BA	1742	C	5.4
53	B6	44	PRO	5.4
24	BA	1433	U	5.4
27	BD	170	GLY	5.4
27	BD	40	THR	5.4
52	B5	13	CYS	5.4
50	B3	32	TYR	5.4
8	AI	86	ARG	5.4
27	BD	274	ARG	5.4
27	BD	270	ILE	5.4
24	BA	1360	A	5.4
27	BD	86	PRO	5.3
5	AF	80	GLY	5.3
24	BA	1695	G	5.3
6	AG	166	LYS	5.3
27	BD	126	GLN	5.3
27	BD	138	VAL	5.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
27	BD	139	GLY	5.3
53	B6	16	HIS	5.3
24	BA	1562	A	5.3
27	BD	88	ARG	5.2
24	BA	2212	A	5.2
52	B5	37	ARG	5.2
20	AU	18	ARG	5.2
52	B5	28	ARG	5.2
9	AJ	110	GLN	5.2
22	AW	49	ALA	5.2
27	BD	131	LEU	5.2
27	BD	114	GLY	5.2
24	BA	1490	A	5.2
8	AI	61	LEU	5.2
14	AO	67	THR	5.2
27	BD	58	HIS	5.2
22	AW	98	PRO	5.2
22	AW	106	ALA	5.2
27	BD	29	PRO	5.2
14	AO	18	VAL	5.1
27	BD	10	THR	5.1
50	B3	1	MET	5.1
52	B5	11	LEU	5.1
22	AW	43	LEU	5.1
8	AI	22	GLU	5.1
36	BO	120	ALA	5.1
43	BV	86	LEU	5.1
27	BD	116	GLN	5.1
3	AC	1	G	5.1
53	B6	26	GLY	5.1
6	AG	176	LEU	5.1
22	AW	51	GLU	5.1
3	AC	3	C	5.1
30	BG	84	LYS	5.1
14	AO	40	VAL	5.1
27	BD	163	ALA	5.1
8	AI	18	GLN	5.1
24	BA	1567	A	5.1
27	BD	71	ASP	5.1
26	BC	123	VAL	5.1
24	BA	1361	G	5.0
53	B6	31	LEU	5.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
27	BD	273	ARG	5.0
37	BP	74	TYR	5.0
30	BG	51	ARG	5.0
12	AM	90	LEU	5.0
29	BF	69	HIS	5.0
54	B7	16	ILE	5.0
43	BV	97	LYS	5.0
24	BA	2076	U	5.0
24	BA	2062	A	5.0
22	AW	99	LEU	5.0
24	BA	164	U	5.0
29	BF	63	LYS	4.9
36	BO	148	LEU	4.9
52	B5	50	ARG	4.9
19	AT	100	LYS	4.9
6	AG	165	MET	4.9
27	BD	78	LYS	4.9
27	BD	12	SER	4.9
24	BA	1942	C	4.9
27	BD	202	LYS	4.9
20	AU	86	VAL	4.9
8	AI	50	TYR	4.9
24	BA	1963	U	4.9
29	BF	76	GLY	4.9
17	AR	89	GLY	4.9
3	AD	67	C	4.9
27	BD	259	THR	4.9
24	BA	1565	C	4.8
27	BD	128	GLY	4.8
36	BO	118	GLY	4.8
36	BO	146	VAL	4.8
9	AJ	131	LYS	4.8
24	BA	1816	G	4.8
3	AD	12	U	4.8
27	BD	218	ARG	4.8
44	BW	84	ALA	4.8
53	B6	23	ARG	4.8
20	AU	88	LYS	4.8
44	BW	96	ILE	4.8
21	AV	66	MET	4.8
27	BD	39	LYS	4.8
9	AJ	112	PRO	4.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
8	AI	60	PHE	4.8
53	B6	15	THR	4.7
50	B3	52	THR	4.7
27	BD	176	ARG	4.7
54	B7	1	MET	4.7
52	B5	12	GLU	4.7
24	BA	461	C	4.7
27	BD	199	ALA	4.7
30	BG	70	VAL	4.7
8	AI	48	LEU	4.7
53	B6	35	ARG	4.7
24	BA	456	C	4.7
24	BA	1733	G	4.7
8	AI	11	ASN	4.7
37	BP	18	LYS	4.7
29	BF	75	HIS	4.6
3	AB	63	G	4.6
14	AO	63	GLY	4.6
27	BD	127	VAL	4.6
36	BO	95	VAL	4.6
3	AD	76	A	4.6
24	BA	686	G	4.6
43	BV	83	LYS	4.6
6	AG	168	ARG	4.6
50	B3	51	ASP	4.6
40	BS	90	GLN	4.6
53	B6	25	PRO	4.6
53	B6	24	THR	4.6
24	BA	1712	C	4.6
39	BR	83	LYS	4.6
27	BD	269	PHE	4.6
50	B3	48	ARG	4.6
27	BD	79	VAL	4.6
1	AA	191(F)	U	4.6
53	B6	37	LYS	4.5
37	BP	78	PRO	4.5
27	BD	30	GLU	4.5
37	BP	8	LYS	4.5
14	AO	65	GLU	4.5
27	BD	14	ARG	4.5
40	BS	91	ARG	4.5
3	AC	67	C	4.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
24	BA	1902	C	4.5
36	BO	86	LYS	4.5
8	AI	47	ARG	4.5
43	BV	95	ILE	4.5
13	AN	126	ARG	4.4
24	BA	790	C	4.4
6	AG	167	GLY	4.4
50	B3	20	ASN	4.4
27	BD	124	PRO	4.4
22	AW	50	GLU	4.4
13	AN	109	VAL	4.4
27	BD	147	LEU	4.4
24	BA	1928	A	4.4
27	BD	214	TRP	4.4
27	BD	193	VAL	4.4
24	BA	796	C	4.4
26	BC	101	GLN	4.4
45	BX	87	LYS	4.4
44	BW	89	ILE	4.4
8	AI	53	ALA	4.3
24	BA	2059	A	4.3
20	AU	17	SER	4.3
27	BD	89	SER	4.3
51	B4	60	VAL	4.3
3	AC	76	A	4.3
13	AN	129	SER	4.3
24	BA	2213	U	4.3
36	BO	90	ARG	4.3
50	B3	30	GLU	4.3
52	B5	9	LEU	4.3
53	B6	34	ARG	4.3
24	BA	683	C	4.3
13	AN	77	MET	4.3
6	AG	183	GLY	4.3
3	AD	10	G	4.3
54	B7	15	LYS	4.3
27	BD	196	VAL	4.3
29	BF	73	ALA	4.3
43	BV	24	ILE	4.3
29	BF	66	PRO	4.3
22	AW	47	GLY	4.3
24	BA	1432	C	4.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
27	BD	16	MET	4.3
26	BC	108	MET	4.2
27	BD	260	ARG	4.2
43	BV	87	PRO	4.2
37	BP	6	ARG	4.2
27	BD	125	ILE	4.2
46	BY	107	THR	4.2
26	BC	103	ILE	4.2
53	B6	20	ALA	4.2
50	B3	18	CYS	4.2
27	BD	136	ILE	4.2
27	BD	36	PRO	4.2
3	AB	54	U	4.2
24	BA	1368	G	4.2
8	AI	36	ARG	4.1
36	BO	94	GLU	4.1
45	BX	89	PHE	4.1
53	B6	28	ARG	4.1
26	BC	88	GLU	4.1
33	BL	93	ARG	4.1
24	BA	466	A	4.1
20	AU	87	ARG	4.1
24	BA	2441	C	4.1
30	BG	85	GLY	4.1
27	BD	189	CYS	4.1
6	AG	182	LYS	4.1
27	BD	59	LYS	4.1
27	BD	66	ASP	4.1
50	B3	47	GLN	4.1
24	BA	2077	A	4.1
27	BD	137	PRO	4.1
3	AD	68	C	4.1
27	BD	118	VAL	4.1
29	BF	62	ARG	4.1
27	BD	186	HIS	4.1
24	BA	1730	U	4.1
47	BZ	4	LYS	4.1
26	BC	118	ASP	4.1
8	AI	64	GLN	4.1
24	BA	2238	G	4.1
50	B3	38	LYS	4.0
24	BA	125	G	4.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
52	B5	31	PRO	4.0
50	B3	25	TYR	4.0
37	BP	7	MET	4.0
46	BY	108	PRO	4.0
3	AC	4	C	4.0
24	BA	2433	A	4.0
39	BR	110	LEU	4.0
24	BA	2586	C	4.0
5	AF	150	LYS	4.0
29	BF	71	GLY	4.0
36	BO	27	HIS	4.0
6	AG	174	LEU	4.0
47	BZ	82	ARG	4.0
27	BD	271	ILE	4.0
44	BW	79	ALA	4.0
24	BA	795	C	4.0
8	AI	66	GLU	4.0
29	BF	79	GLY	4.0
30	BG	146	TYR	4.0
27	BD	122	ASP	4.0
8	AI	14	LEU	4.0
30	BG	52	ILE	4.0
33	BL	94	GLU	4.0
24	BA	687	C	4.0
36	BO	143	GLY	4.0
24	BA	1555	G	3.9
24	BA	1929	G	3.9
52	B5	18	ARG	3.9
27	BD	148	GLU	3.9
27	BD	275	LYS	3.9
54	B7	57	ARG	3.9
8	AI	46	ARG	3.9
52	B5	54	ILE	3.9
27	BD	77	ALA	3.9
19	AT	103	GLY	3.9
27	BD	67	PHE	3.9
2	A1	34	U	3.9
26	BC	78	ALA	3.9
21	AV	81	ARG	3.9
27	BD	258	LYS	3.9
52	B5	33	LYS	3.9
24	BA	728	G	3.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
53	B6	36	GLN	3.9
19	AT	53	LEU	3.9
36	BO	82	GLY	3.9
9	AJ	134	ALA	3.9
24	BA	764	A	3.9
3	AC	71	G	3.9
3	AD	74	C	3.9
9	AJ	62	PHE	3.9
3	AB	38	A	3.9
24	BA	1927	A	3.9
30	BG	2	PRO	3.9
42	BU	84	LYS	3.9
27	BD	188	GLU	3.8
8	AI	63	TYR	3.8
30	BG	69	ALA	3.8
35	BN	45	GLU	3.8
36	BO	125	VAL	3.8
24	BA	2585	U	3.8
54	B7	64	TYR	3.8
8	AI	38	GLU	3.8
3	AC	2	C	3.8
27	BD	56	GLY	3.8
27	BD	117	VAL	3.8
6	AG	177	ASP	3.8
27	BD	185	VAL	3.8
37	BP	79	LEU	3.8
24	BA	1716	U	3.8
27	BD	70	TRP	3.8
21	AV	62	ILE	3.8
27	BD	60	ARG	3.8
49	B2	33	GLN	3.8
27	BD	162	SER	3.8
44	BW	70	LEU	3.8
8	AI	9	VAL	3.8
14	AO	55	VAL	3.8
36	BO	126	VAL	3.8
8	AI	45	LEU	3.7
27	BD	141	VAL	3.7
36	BO	139	LYS	3.7
27	BD	146	GLU	3.7
24	BA	2556	C	3.7
27	BD	75	ILE	3.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
24	BA	126	A	3.7
21	AV	75	ALA	3.7
24	BA	462	C	3.7
36	BO	79	ARG	3.7
37	BP	58	PHE	3.7
3	AB	61	C	3.7
27	BD	93	ALA	3.7
27	BD	107	ALA	3.7
39	BR	84	GLN	3.7
52	B5	32	ASN	3.7
24	BA	726	G	3.7
24	BA	888	C	3.7
36	BO	85	LEU	3.7
20	AU	16	PRO	3.7
52	B5	14	THR	3.7
37	BP	72	LYS	3.7
13	AN	87	THR	3.7
27	BD	153	ALA	3.7
24	BA	1564	C	3.7
54	B7	5	LYS	3.7
26	BC	79	LYS	3.6
27	BD	204	ILE	3.6
43	BV	89	ALA	3.6
2	A1	3	U	3.6
20	AU	19	LYS	3.6
24	BA	1561	G	3.6
53	B6	42	LEU	3.6
27	BD	143	HIS	3.6
24	BA	727	A	3.6
14	AO	68	ALA	3.6
24	BA	1925	C	3.6
27	BD	31	LYS	3.6
24	BA	1563	G	3.6
29	BF	67	GLN	3.6
8	AI	39	LYS	3.6
27	BD	135	PHE	3.6
27	BD	220	HIS	3.6
36	BO	124	LYS	3.6
46	BY	144	LEU	3.6
53	B6	11	LYS	3.6
53	B6	14	LYS	3.6
6	AG	179	GLU	3.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
24	BA	1727	U	3.6
43	BV	82	LEU	3.6
20	AU	85	LEU	3.6
44	BW	92	LEU	3.6
9	AJ	71	PRO	3.6
13	AN	14	VAL	3.6
22	AW	56	MET	3.6
27	BD	54	ARG	3.6
32	BK	103	ARG	3.6
44	BW	78	LYS	3.6
37	BP	9	TYR	3.6
9	AJ	70	LYS	3.6
27	BD	57	GLY	3.6
3	AD	69	G	3.6
9	AJ	63	LYS	3.6
27	BD	85	ASP	3.6
8	AI	54	LYS	3.5
27	BD	245	PRO	3.5
14	AO	21	LYS	3.5
26	BC	137	LEU	3.5
17	AR	87	ILE	3.5
50	B3	22	ILE	3.5
27	BD	254	THR	3.5
8	AI	33	TYR	3.5
36	BO	127	ALA	3.5
3	AC	70	G	3.5
9	AJ	61	VAL	3.5
13	AN	86	GLY	3.5
44	BW	83	VAL	3.5
5	AF	184	TYR	3.5
14	AO	59	ARG	3.5
44	BW	67	GLY	3.5
3	AD	13	C	3.5
9	AJ	69	VAL	3.5
9	AJ	133	GLY	3.5
33	BL	139	VAL	3.5
46	BY	115	GLY	3.5
27	BD	192	THR	3.5
24	BA	1917	U	3.5
22	AW	101	GLY	3.5
27	BD	152	GLY	3.5
13	AN	75	TYR	3.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
37	BP	94	VAL	3.5
27	BD	134	ARG	3.5
27	BD	217	ARG	3.5
36	BO	92	GLU	3.5
13	AN	81	ASP	3.5
50	B3	19	GLY	3.5
8	AI	84	ASN	3.5
30	BG	1	MET	3.5
22	AW	45	GLN	3.4
39	BR	48	LEU	3.4
9	AJ	53	LYS	3.4
42	BU	76	LYS	3.4
16	AQ	45	ARG	3.4
53	B6	49	ARG	3.4
27	BD	194	GLY	3.4
35	BN	46	ALA	3.4
24	BA	2241	A	3.4
53	B6	29	LYS	3.4
14	AO	77	LEU	3.4
14	AO	97	ARG	3.4
22	AW	92	LEU	3.4
37	BP	73	PRO	3.4
24	BA	1840	G	3.4
9	AJ	129	GLU	3.4
24	BA	2558	C	3.4
27	BD	73	VAL	3.4
24	BA	1568	G	3.4
24	BA	2080	G	3.4
37	BP	70	PRO	3.4
26	BC	120	MET	3.4
8	AI	21	LEU	3.4
14	AO	16	GLU	3.4
26	BC	128	GLY	3.4
50	B3	39	CYS	3.3
5	AF	149	ALA	3.3
9	AJ	49	ILE	3.3
14	AO	37	CYS	3.3
24	BA	436	C	3.3
37	BP	46	GLN	3.3
22	AW	44	ALA	3.3
24	BA	1372	U	3.3
24	BA	1820	U	3.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
9	AJ	123	GLU	3.3
6	AG	184	LYS	3.3
9	AJ	60	LYS	3.3
8	AI	12	PRO	3.3
37	BP	98	LYS	3.3
45	BX	31	LEU	3.3
24	BA	2063	C	3.3
26	BC	110	PHE	3.3
37	BP	82	ARG	3.3
30	BG	87	PRO	3.3
29	BF	77	ASP	3.3
36	BO	81	GLN	3.3
24	BA	2609	U	3.3
43	BV	1	MET	3.2
8	AI	44	GLY	3.2
44	BW	11	PRO	3.2
8	AI	19	LEU	3.2
9	AJ	59	LEU	3.2
30	BG	72	ARG	3.2
24	BA	1537	C	3.2
33	BL	138	VAL	3.2
6	AG	178	VAL	3.2
9	AJ	156	TRP	3.2
37	BP	76	LYS	3.2
53	B6	30	VAL	3.2
3	AC	20	U	3.2
8	AI	85	VAL	3.2
5	AF	202	ILE	3.2
24	BA	2286	A	3.2
24	BA	958	U	3.2
3	AB	53	G	3.2
30	BG	73	ALA	3.2
37	BP	80	GLU	3.2
46	BY	178	GLU	3.2
27	BD	181	GLU	3.2
30	BG	50	ALA	3.2
52	B5	44	ARG	3.2
40	BS	94	ALA	3.2
52	B5	17	LYS	3.2
24	BA	1434	A	3.2
8	AI	87	ARG	3.2
24	BA	1535	U	3.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
44	BW	30	VAL	3.2
6	AG	181	MET	3.2
30	BG	150	ASP	3.2
17	AR	45	VAL	3.1
30	BG	75	LYS	3.1
24	BA	2434	A	3.1
38	BQ	63	ARG	3.1
27	BD	41	GLY	3.1
50	B3	53	GLU	3.1
24	BA	685	A	3.1
35	BN	49	ARG	3.1
37	BP	64	ILE	3.1
24	BA	1907	G	3.1
44	BW	91	ALA	3.1
50	B3	37	SER	3.1
37	BP	38	GLU	3.1
27	BD	15	PHE	3.1
3	AC	68	C	3.1
53	B6	45	ALA	3.1
19	AT	89	LEU	3.1
37	BP	95	ALA	3.1
27	BD	105	ILE	3.1
37	BP	42	ILE	3.1
47	BZ	83	PRO	3.1
27	BD	144	ALA	3.1
24	BA	708	C	3.1
51	B4	59	GLU	3.1
8	AI	24	GLU	3.1
14	AO	27	LEU	3.1
21	AV	64	GLU	3.1
44	BW	88	LYS	3.1
37	BP	39	PRO	3.1
14	AO	62	SER	3.1
14	AO	78	GLN	3.1
14	AO	80	HIS	3.1
24	BA	2075	U	3.1
27	BD	145	VAL	3.1
24	BA	2078	C	3.1
27	BD	255	LYS	3.1
33	BL	89	HIS	3.1
36	BO	98	GLU	3.1
44	BW	90	GLU	3.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
9	AJ	11	GLN	3.1
24	BA	2240	C	3.0
24	BA	682	G	3.0
30	BG	4	ASP	3.0
8	AI	28	ARG	3.0
44	BW	93	GLU	3.0
54	B7	13	ARG	3.0
26	BC	130	ILE	3.0
27	BD	76	PRO	3.0
24	BA	468	G	3.0
36	BO	99	LEU	3.0
24	BA	1901	A	3.0
14	AO	56	ALA	3.0
26	BC	138	PRO	3.0
27	BD	149	PRO	3.0
40	BS	29	ARG	3.0
1	AA	64	G	3.0
24	BA	2596	U	3.0
54	B7	24	ALA	3.0
24	BA	1566	A	3.0
33	BL	84	LEU	3.0
8	AI	17	SER	3.0
24	BA	2239	G	3.0
8	AI	35	ALA	3.0
50	B3	29	PRO	3.0
24	BA	460	A	3.0
8	AI	20	ALA	3.0
13	AN	83	ILE	3.0
27	BD	159	ALA	3.0
24	BA	2079	U	3.0
27	BD	155	LEU	3.0
13	AN	82	VAL	3.0
21	AV	47	HIS	3.0
37	BP	140	ALA	3.0
54	B7	25	MET	3.0
8	AI	13	ASN	3.0
42	BU	77	ALA	3.0
50	B3	23	GLU	3.0
14	AO	28	LYS	3.0
20	AU	84	LYS	3.0
24	BA	1839	G	3.0
14	AO	66	VAL	3.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
27	BD	99	ASP	3.0
27	BD	267	SER	3.0
34	BM	2	LYS	3.0
44	BW	85	PRO	2.9
37	BP	141	GLN	2.9
45	BX	86	ARG	2.9
37	BP	10	ARG	2.9
30	BG	3	LEU	2.9
24	BA	1359	A	2.9
27	BD	261	LYS	2.9
37	BP	96	VAL	2.9
35	BN	33	ALA	2.9
24	BA	1718	G	2.9
29	BF	80	ALA	2.9
47	BZ	64	ASP	2.9
2	A1	11	U	2.9
27	BD	44	ASN	2.9
54	B7	10	ALA	2.9
53	B6	47	ARG	2.9
24	BA	1553	A	2.9
27	BD	55	GLY	2.9
24	BA	1711	C	2.9
33	BL	96	VAL	2.9
35	BN	18	LYS	2.9
38	BQ	62	ALA	2.9
24	BA	1903	G	2.9
27	BD	106	ILE	2.9
13	AN	16	SER	2.9
6	AG	175	SER	2.9
9	AJ	81	GLY	2.9
13	AN	89	ALA	2.9
9	AJ	155	ARG	2.8
54	B7	14	VAL	2.8
27	BD	43	ARG	2.8
21	AV	63	THR	2.8
24	BA	34	C	2.8
24	BA	739	G	2.8
24	BA	2602	A	2.8
8	AI	82	ARG	2.8
27	BD	133	LEU	2.8
27	BD	42	GLY	2.8
43	BV	84	ARG	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
24	BA	791	C	2.8
24	BA	1439	A	2.8
13	AN	17	GLY	2.8
2	A1	35	U	2.8
44	BW	29	TRP	2.8
3	AC	47	U	2.8
24	BA	711	G	2.8
21	AV	60	VAL	2.8
8	AI	23	LYS	2.8
9	AJ	135	VAL	2.8
24	BA	702	G	2.8
22	AW	52	ALA	2.8
6	AG	186	LEU	2.8
3	AC	15	G	2.8
24	BA	729	G	2.8
24	BA	1726	G	2.8
27	BD	161	THR	2.8
5	AF	169	ALA	2.8
49	B2	35	ARG	2.8
27	BD	253	GLN	2.8
29	BF	87	GLY	2.8
9	AJ	137	LYS	2.8
24	BA	2610	C	2.8
50	B3	2	LYS	2.8
5	AF	168	ALA	2.8
27	BD	87	ASN	2.8
22	AW	104	LEU	2.8
3	AC	72	C	2.8
26	BC	97	GLU	2.8
53	B6	19	ARG	2.8
22	AW	91	LEU	2.7
6	AG	185	PHE	2.7
19	AT	96	GLN	2.7
17	AR	7	GLU	2.7
53	B6	17	GLY	2.7
8	AI	49	ALA	2.7
27	BD	48	ARG	2.7
24	BA	1431	U	2.7
27	BD	74	GLY	2.7
9	AJ	124	LEU	2.7
52	B5	30	THR	2.7
7	AH	15	ARG	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
46	BY	133	ILE	2.7
52	B5	24	GLU	2.7
37	BP	41	TRP	2.7
46	BY	114	GLY	2.7
17	AR	44	LYS	2.7
53	B6	33	ARG	2.7
24	BA	1460	A	2.7
49	B2	57	GLU	2.7
53	B6	18	PHE	2.7
30	BG	79	ASN	2.7
26	BC	132	GLY	2.7
53	B6	13	ALA	2.7
8	AI	40	VAL	2.7
27	BD	264	LYS	2.7
3	AC	69	G	2.7
19	AT	104	LYS	2.7
14	AO	75	HIS	2.7
36	BO	138	LEU	2.7
37	BP	11	LYS	2.7
27	BD	207	GLY	2.7
29	BF	93	LYS	2.7
21	AV	27	GLU	2.7
6	AG	172	PRO	2.7
30	BG	5	VAL	2.7
37	BP	97	VAL	2.7
27	BD	52	ARG	2.7
24	BA	684	G	2.7
36	BO	112	LEU	2.7
45	BX	88	LYS	2.7
46	BY	105	VAL	2.7
8	AI	34	GLY	2.7
50	B3	54	GLY	2.7
24	BA	1906	G	2.7
13	AN	78	GLN	2.7
43	BV	74	ALA	2.7
13	AN	80	VAL	2.6
27	BD	205	VAL	2.6
19	AT	99	SER	2.6
33	BL	17	ALA	2.6
14	AO	45	PRO	2.6
36	BO	60	MET	2.6
9	AJ	120	ILE	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
30	BG	67	LYS	2.6
50	B3	31	ILE	2.6
2	A1	33	U	2.6
13	AN	19	ALA	2.6
45	BX	85	VAL	2.6
17	AR	88	ARG	2.6
24	BA	777	A	2.6
24	BA	1689	A	2.6
24	BA	1818	U	2.6
24	BA	1981	A	2.6
26	BC	145	VAL	2.6
40	BS	93	ARG	2.6
27	BD	150	LYS	2.6
46	BY	143	GLY	2.6
3	AD	70	G	2.6
24	BA	1534	G	2.6
24	BA	698	C	2.6
14	AO	46	LYS	2.6
26	BC	131	LEU	2.6
27	BD	53	PHE	2.6
44	BW	77	LYS	2.6
14	AO	38	THR	2.6
52	B5	23	THR	2.6
13	AN	85	ARG	2.6
14	AO	53	ARG	2.6
47	BZ	15	ASP	2.6
8	AI	68	PRO	2.6
6	AG	148	VAL	2.6
8	AI	88	VAL	2.6
13	AN	79	SER	2.6
24	BA	1817	G	2.6
24	BA	2432	A	2.6
50	B3	27	THR	2.6
29	BF	81	PRO	2.6
24	BA	740	U	2.6
27	BD	132	PRO	2.6
6	AG	187	ARG	2.6
27	BD	160	GLY	2.6
50	B3	33	VAL	2.6
13	AN	88	GLY	2.6
46	BY	173	ALA	2.6
30	BG	86	MET	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
54	B7	6	THR	2.6
44	BW	87	GLN	2.6
24	BA	465	G	2.6
5	AF	78	GLY	2.6
53	B6	38	GLY	2.6
8	AI	1	MET	2.6
47	BZ	66	VAL	2.6
3	AC	5	G	2.5
18	AS	51	VAL	2.5
21	AV	48	THR	2.5
24	BA	2237	G	2.5
35	BN	53	LYS	2.5
24	BA	788	A	2.5
27	BD	265	PRO	2.5
8	AI	16	GLN	2.5
47	BZ	19	LYS	2.5
26	BC	91	ALA	2.5
27	BD	45	ASN	2.5
27	BD	246	PRO	2.5
24	BA	709	U	2.5
5	AF	152	ILE	2.5
24	BA	1806	C	2.5
52	B5	27	LYS	2.5
9	AJ	66	VAL	2.5
36	BO	87	ASP	2.5
24	BA	719	C	2.5
24	BA	2081	C	2.5
36	BO	142	GLY	2.5
46	BY	172	ALA	2.5
27	BD	151	LYS	2.5
53	B6	48	LYS	2.5
8	AI	42	GLU	2.5
14	AO	58	VAL	2.5
26	BC	139	ASN	2.5
24	BA	738	G	2.5
8	AI	37	VAL	2.5
53	B6	32	LYS	2.5
9	AJ	130	GLY	2.5
36	BO	96	THR	2.5
53	B6	39	ARG	2.5
1	AA	1452	C	2.5
1	AA	1257	U	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
14	AO	96	VAL	2.5
27	BD	34	VAL	2.5
37	BP	14	ARG	2.5
24	BA	2085	C	2.5
13	AN	111	ASP	2.5
5	AF	200	ALA	2.5
37	BP	128	LYS	2.5
54	B7	3	LYS	2.5
24	BA	1258	C	2.5
47	BZ	11	ARG	2.5
9	AJ	107	ALA	2.4
13	AN	84	VAL	2.4
24	BA	1373	A	2.4
1	AA	837	G	2.4
13	AN	112	THR	2.4
15	AP	124	PRO	2.4
50	B3	14	ILE	2.4
24	BA	1453	A	2.4
24	BA	1429	G	2.4
21	AV	46	GLY	2.4
9	AJ	64	GLN	2.4
12	AM	89	ASP	2.4
9	AJ	12	LEU	2.4
4	AE	7	VAL	2.4
5	AF	166	GLU	2.4
54	B7	29	LYS	2.4
1	AA	1422	G	2.4
44	BW	50	LYS	2.4
24	BA	797	C	2.4
27	BD	219	PRO	2.4
44	BW	86	GLY	2.4
8	AI	15	ASP	2.4
2	A1	19	U	2.4
24	BA	699	A	2.4
44	BW	82	GLN	2.4
5	AF	77	ILE	2.4
13	AN	108	ILE	2.4
19	AT	98	LEU	2.4
24	BA	1781	C	2.4
22	AW	95	ALA	2.4
24	BA	1814	G	2.4
27	BD	156	ALA	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
49	B2	56	VAL	2.4
5	AF	173	VAL	2.4
26	BC	207	THR	2.4
44	BW	76	ARG	2.4
24	BA	2060	A	2.4
46	BY	141	VAL	2.4
8	AI	25	ILE	2.4
24	BA	467	G	2.4
37	BP	45	GLN	2.4
14	AO	23	LYS	2.4
24	BA	1078	U	2.4
8	AI	5	GLU	2.4
36	BO	89	ALA	2.4
50	B3	15	ILE	2.4
5	AF	81	GLY	2.4
9	AJ	82	GLY	2.4
37	BP	68	ILE	2.4
3	AC	14	A	2.4
24	BA	654	A	2.4
24	BA	1815	A	2.4
24	BA	1971	A	2.4
37	BP	81	VAL	2.3
15	AP	35	GLU	2.3
24	BA	885	C	2.3
4	AE	240	GLN	2.3
22	AW	53	LEU	2.3
1	AA	870	U	2.3
24	BA	1536	A	2.3
9	AJ	65	ALA	2.3
1	AA	186(D)	C	2.3
24	BA	1782	C	2.3
43	BV	75	TYR	2.3
36	BO	149	GLU	2.3
24	BA	1614	A	2.3
5	AF	151	VAL	2.3
24	BA	455	C	2.3
24	BA	1905	C	2.3
24	BA	710	G	2.3
24	BA	1696	G	2.3
54	B7	23	VAL	2.3
6	AG	145	GLU	2.3
6	AG	150	GLU	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
27	BD	50	THR	2.3
24	BA	734	A	2.3
24	BA	1918	A	2.3
24	BA	2858	C	2.3
49	B2	60	GLU	2.3
6	AG	131	ARG	2.3
27	BD	142	VAL	2.3
13	AN	15	ALA	2.3
26	BC	89	ALA	2.3
36	BO	140	ALA	2.3
27	BD	213	ARG	2.3
9	AJ	138	LYS	2.3
35	BN	44	LYS	2.3
50	B3	49	PHE	2.3
15	AP	33	ALA	2.3
9	AJ	88	PRO	2.3
24	BA	703	U	2.3
37	BP	63	LYS	2.3
13	AN	76	GLY	2.3
24	BA	758	C	2.3
9	AJ	83	ALA	2.3
41	BT	50	ARG	2.3
53	B6	12	ARG	2.3
22	AW	103	GLY	2.3
27	BD	98	VAL	2.3
19	AT	93	GLN	2.3
53	B6	7	PRO	2.3
24	BA	1556	C	2.3
47	BZ	41	ARG	2.3
30	BG	49	ASP	2.3
24	BA	1679	U	2.3
9	AJ	72	ARG	2.3
13	AN	21	ILE	2.3
13	AN	125	PHE	2.3
21	AV	65	ASN	2.3
50	B3	28	LYS	2.3
54	B7	12	LYS	2.3
39	BR	68	GLN	2.3
24	BA	772	C	2.3
24	BA	2442	C	2.3
1	AA	1542	U	2.3
2	A1	4	U	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
24	BA	2255	G	2.3
26	BC	105	ASP	2.3
37	BP	71	ASP	2.3
19	AT	52	LYS	2.3
27	BD	154	LYS	2.3
43	BV	90	ARG	2.3
30	BG	54	GLU	2.3
54	B7	2	PRO	2.3
22	AW	89	ARG	2.3
24	BA	1710	C	2.3
35	BN	47	ILE	2.3
43	BV	25	ARG	2.3
26	BC	74	VAL	2.3
21	AV	59	PRO	2.3
36	BO	76	LYS	2.2
54	B7	60	LEU	2.2
1	AA	808	C	2.2
26	BC	226	PRO	2.2
38	BQ	72	ASP	2.2
9	AJ	154	TYR	2.2
27	BD	210	GLY	2.2
24	BA	1913	A	2.2
14	AO	126	LYS	2.2
22	AW	54	LYS	2.2
24	BA	2751	G	2.2
27	BD	19	ALA	2.2
27	BD	35	LYS	2.2
40	BS	92	GLY	2.2
9	AJ	113	GLU	2.2
19	AT	90	ILE	2.2
36	BO	93	GLY	2.2
43	BV	21	VAL	2.2
24	BA	1056	G	2.2
50	B3	9	LEU	2.2
24	BA	50	U	2.2
38	BQ	84	ALA	2.2
3	AB	62	C	2.2
24	BA	1844	C	2.2
21	AV	76	PRO	2.2
1	AA	1088	G	2.2
50	B3	16	CYS	2.2
52	B5	25	LYS	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
44	BW	26	TYR	2.2
9	AJ	136	LYS	2.2
15	AP	34	LEU	2.2
54	B7	27	THR	2.2
24	BA	1057	A	2.2
38	BQ	81	ASP	2.2
26	BC	86	ALA	2.2
33	BL	16	LYS	2.2
44	BW	80	ILE	2.2
9	AJ	13	GLN	2.2
24	BA	190	A	2.2
47	BZ	65	GLY	2.2
27	BD	206	LEU	2.2
8	AI	8	ILE	2.2
37	BP	91	GLU	2.2
46	BY	139	VAL	2.2
14	AO	42	THR	2.2
40	BS	50	ILE	2.2
37	BP	77	LYS	2.2
27	BD	51	VAL	2.2
35	BN	19	ILE	2.2
24	BA	1717	G	2.2
36	BO	135	LEU	2.2
3	AC	56	C	2.1
13	AN	97	ALA	2.1
30	BG	80	PHE	2.1
52	B5	26	ASN	2.1
6	AG	144	ASP	2.1
52	B5	38	LYS	2.1
27	BD	157	ARG	2.1
37	BP	106	VAL	2.1
36	BO	117	GLU	2.1
48	B1	67	ALA	2.1
22	AW	55	ILE	2.1
26	BC	99	ILE	2.1
27	BD	177	LEU	2.1
16	AQ	46	GLU	2.1
7	AH	154	GLY	2.1
27	BD	49	ILE	2.1
18	AS	46	PRO	2.1
16	AQ	37	PHE	2.1
24	BA	890	A	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	AA	1087	G	2.1
24	BA	759	G	2.1
24	BA	1055	G	2.1
14	AO	98	TYR	2.1
27	BD	249	PRO	2.1
47	BZ	31	VAL	2.1
47	BZ	49	LYS	2.1
24	BA	1915	U	2.1
7	AH	88	LYS	2.1
24	BA	701	G	2.1
34	BM	4	TYR	2.1
30	BG	182	LYS	2.1
43	BV	98	LYS	2.1
47	BZ	62	LEU	2.1
54	B7	21	LYS	2.1
24	BA	1060	U	2.1
29	BF	82	ILE	2.1
45	BX	1	MET	2.1
17	AR	4	THR	2.1
47	BZ	50	ASN	2.1
38	BQ	82	GLU	2.1
54	B7	28	GLY	2.1
15	AP	122	LYS	2.1
24	BA	706	A	2.1
24	BA	1106	G	2.1
46	BY	142	SER	2.1
47	BZ	8	GLY	2.1
9	AJ	85	TYR	2.1
14	AO	60	LEU	2.1
3	AC	73	A	2.1
24	BA	781	A	2.1
9	AJ	87	VAL	2.1
46	BY	104	PHE	2.1
36	BO	141	ALA	2.1
9	AJ	67	GLU	2.1
24	BA	469	G	2.1
6	AG	180	GLY	2.1
26	BC	119	VAL	2.1
27	BD	233	HIS	2.1
1	AA	843	U	2.1
24	BA	730	C	2.1
27	BD	187	GLY	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
47	BZ	81	VAL	2.1
24	BA	1631	A	2.0
24	BA	778	G	2.0
42	BU	83	ARG	2.0
44	BW	66	LEU	2.0
13	AN	106	LYS	2.0
24	BA	762	U	2.0
6	AG	189	PRO	2.0
9	AJ	78	ARG	2.0
38	BQ	100	LEU	2.0
26	BC	102	LYS	2.0
29	BF	88	VAL	2.0
53	B6	43	THR	2.0
22	AW	88	VAL	2.0
24	BA	210	C	2.0
24	BA	2065	C	2.0
27	BD	231	HIS	2.0
50	B3	46	GLN	2.0
27	BD	239	ARG	2.0
26	BC	96	GLY	2.0
27	BD	252	TRP	2.0
44	BW	81	VAL	2.0
1	AA	1094	G	2.0
3	AC	66	U	2.0
24	BA	680	G	2.0
24	BA	1944	U	2.0
29	BF	209	GLU	2.0
42	BU	74	LYS	2.0
5	AF	170	GLN	2.0
5	AF	83	ARG	2.0
12	AM	22	LYS	2.0
20	AU	78	LEU	2.0
1	AA	841	U	2.0
3	AC	44	G	2.0
9	AJ	52	GLU	2.0
24	BA	1731	G	2.0
46	BY	111	VAL	2.0
22	AW	42	GLN	2.0
5	AF	203	PHE	2.0
28	BE	182	LEU	2.0
6	AG	48	ALA	2.0
24	BA	2058	A	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
24	BA	2082	A	2.0
43	BV	91	GLY	2.0
33	BL	98	ARG	2.0
46	BY	79	ARG	2.0

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

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

There are no ligands in this entry.

6.5 Other polymers ⓘ

There are no such residues in this entry.