



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 20, 2026 – 01:27 AM UTC

PDB ID : 4V4P / pdb_00004v4p
Title : Crystal structure of 70S ribosome with thrS operator and tRNAs.
Authors : Jenner, L.; Romby, P.; Rees, B.; Schulze-Briesse, C.; Springer, M.; Ehresmann, C.; Ehresmann, B.; Moras, D.; Yusupova, G.; Yusupov, M.
Deposited on : 2005-01-19
Resolution : 5.50 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

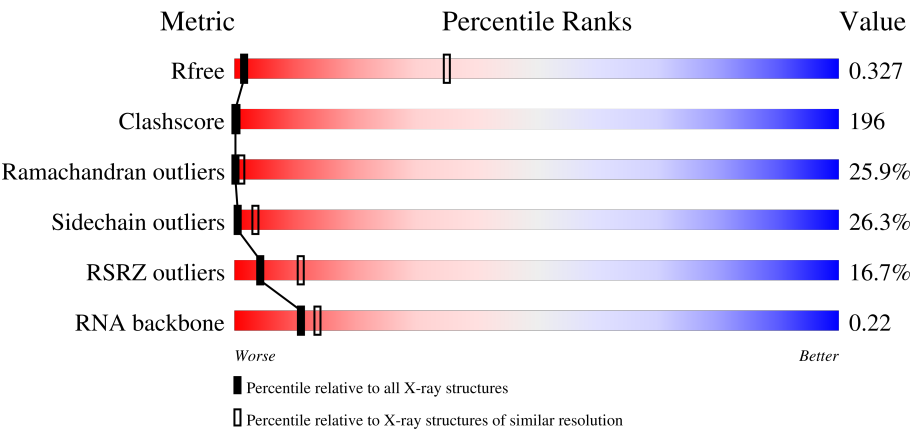
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

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}	180053	1088 (7.00-4.00)
Clashscore	190562	1147 (7.00-4.00)
Ramachandran outliers	187476	1012 (7.02-3.98)
Sidechain outliers	187428	1023 (7.04-3.96)
RSRZ outliers	180081	1081 (7.00-4.00)
RNA backbone	3983	1052 (7.80-3.10)

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 of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AB	123	54%37%9%
2	AA	2915	8%40%38%21%
3	AC	228	21%7%57%28%6%
4	AD	178	47%23%44%28%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
5	AE	338	
6	AF	246	
7	AG	176	
8	AH	177	
9	AI	128	
9	AJ	128	
10	AK	149	
11	AL	141	
12	AM	145	
13	AN	122	
14	AO	164	
15	AP	138	
16	AQ	186	
17	AR	66	
18	AS	113	
19	AT	84	
20	AU	119	
21	AV	253	
22	AW	70	
23	AX	60	
24	A0	118	
25	A1	118	
26	A2	100	
27	A3	91	
28	A4	73	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
29	A5	60	
30	A6	82	
31	A7	47	
32	A8	64	
33	A9	36	
34	BA	1522	
35	BB	76	
35	BC	76	
36	B1	78	
37	BE	256	
38	BF	239	
39	BG	209	
40	BH	162	
41	BI	101	
42	BJ	156	
43	BK	138	
44	BL	128	
45	BM	105	
46	BN	129	
47	BO	135	
48	BP	126	
49	BQ	61	
50	BR	89	
51	BS	88	
52	BT	105	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
53	BU	88	30% 42% 26% 13% 17%
54	BV	93	15% 45% 30% 8% 14%
55	BW	106	13% 50% 36% 8% 7%
56	BX	27	48% 37% 11%

2 Entry composition

There are 56 unique types of molecules in this entry. The entry contains 148539 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AB	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
AB	-1	A	-	insertion	GB 48271
AB	120	U	-	insertion	GB 48271

- Molecule 2 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AA	2872	Total	C	N	O	P	0	0	0
			61847	27526	11556	19893	2872			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AA	494	G	-	insertion	GB 48268

- Molecule 3 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AC	221	Total	C	N	O	S	0	0	0
			1687	1066	306	312	3			

- Molecule 4 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AD	173	Total	C	N	O	S	0	0	0
			1308	820	246	236	6			

- Molecule 5 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	191	Total	C	N	O	S	0	0	0
			1507	940	290	273	4			

- Molecule 6 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AF	189	Total	C	N	O	S	0	0	0
			1430	872	255	302	1			

- Molecule 7 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AG	122	Total	C	N	O	S	0	0	0
			957	597	176	180	4			

- Molecule 8 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	164	Total	C	N	O	S	0	0	0
			1251	787	225	237	2			

- Molecule 9 is a protein called 50S ribosomal protein L7/L12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AI	128	Total	C	N	O	S	0	0	0
			945	599	152	193	1			
9	AJ	128	Total	C	N	O	S	0	0	0
			945	599	152	193	1			

- Molecule 10 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AK	148	Total	C	N	O	S	0	0	0
			1145	727	205	212	1			

- Molecule 11 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AL	133	Total	C	N	O	S	0	0	0
			999	642	169	182	6			

- Molecule 12 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AM	117	Total	C	N	O	S	0	0	0
			917	570	164	180	3			

- Molecule 13 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AN	122	Total	C	N	O	S	0	0	0
			937	585	180	169	3			

- Molecule 14 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	AO	84	Total	C	N	O	0	0	0
			639	391	109	139			

- Molecule 15 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AP	138	Total	C	N	O	S	0	0	0
			1081	678	208	192	3			

- Molecule 16 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AQ	113	Total	C	N	O	S	0	0	0
			866	536	165	164	1			

- Molecule 17 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AR	52	Total	C	N	O	S	0	0	0
			406	242	74	85	5			

- Molecule 18 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AS	108	Total	C	N	O	0	0	0
			860	542	169	149			

- Molecule 19 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AT	76	Total	C	N	O	S	0	0	0
			602	366	102	131	3			

- Molecule 20 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AU	110	Total	C	N	O		0	0	0
			879	531	166	182				

- Molecule 21 is a protein called 50S general stress protein CTC (L25).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	AV	177	Total	C	N	O	S	0	0	0
			1360	859	238	257	6			

- Molecule 22 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AW	64	Total	C	N	O	S	0	0	0
			494	301	93	99	1			

- Molecule 23 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AX	60	Total	C	N	O	S	0	0	0
			477	303	91	82	1			

- Molecule 24 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	A0	105	Total	C	N	O		0	0	0
			855	536	174	145				

- Molecule 25 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	A1	117	Total	C	N	O	S	0	0	0
			978	608	210	159	1			

- Molecule 26 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	A2	100	Total	C	N	O	S	0	0	0
			787	495	146	145	1			

- Molecule 27 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	A3	86	Total	C	N	O	S	0	0	0
			641	402	124	114	1			

- Molecule 28 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	A4	73	Total	C	N	O	S	0	0	0
			604	382	110	108	4			

- Molecule 29 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	A5	58	Total	C	N	O	S	0	0	0
			457	281	94	77	5			

- Molecule 30 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	A6	53	Total	C	N	O	S	0	0	0
			431	274	80	76	1			

- Molecule 31 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	A7	46	Total	C	N	O	S	0	0	0
			383	230	91	60	2			

- Molecule 32 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	A8	63	Total	C	N	O	S	0	0	0
			496	312	101	78	5			

- Molecule 33 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	A9	35	Total	C	N	O	S	0	0	0
			285	172	64	45	4			

- Molecule 34 is a RNA chain called 16S rRNA.

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

- Molecule 35 is a RNA chain called tRNA Phe (unmodified bases).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BB	76	Total	C	N	O	P	0	0	0
			1626	725	293	532	76			
35	BC	76	Total	C	N	O	P	0	0	0
			1626	725	293	532	76			

- Molecule 36 is a RNA chain called thrS mRNA operator.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	B1	66	Total	C	N	O	P	0	0	0
			1405	629	247	463	66			

- Molecule 37 is a protein called 30S ribosomal protein S2.

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

- Molecule 38 is a protein called 30S ribosomal protein S3.

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

- Molecule 39 is a protein called 30S ribosomal protein S4.

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

- Molecule 40 is a protein called 30S ribosomal protein S5.

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

- Molecule 41 is a protein called 30S ribosomal protein S6.

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

- Molecule 42 is a protein called 30S ribosomal protein S7.

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

- Molecule 43 is a protein called 30S ribosomal protein S8.

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

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BK	25	ASP	GLU	conflict	UNP Q5SHQ2
BK	37	ARG	LYS	conflict	UNP Q5SHQ2
BK	52	ASP	GLU	conflict	UNP Q5SHQ2
BK	61	VAL	ILE	conflict	UNP Q5SHQ2
BK	62	TYR	HIS	conflict	UNP Q5SHQ2
BK	81	HIS	LYS	conflict	UNP Q5SHQ2
BK	88	LYS	ARG	conflict	UNP Q5SHQ2
BK	115	SER	PRO	conflict	UNP Q5SHQ2

- Molecule 44 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	BL	127	Total	C	N	O	0	0	0
			1011	639	198	174			

- Molecule 45 is a protein called 30S ribosomal protein S10.

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

- Molecule 46 is a protein called 30S ribosomal protein S11.

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

- Molecule 47 is a protein called 30S ribosomal protein S12.

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

- Molecule 48 is a protein called 30S ribosomal protein S13.

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

- Molecule 49 is a protein called 30S ribosomal protein S14.

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

- Molecule 50 is a protein called 30S ribosomal protein S15.

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

- Molecule 51 is a protein called 30S ribosomal protein S16.

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

- Molecule 52 is a protein called 30S ribosomal protein S17.

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

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BT	96	GLN	GLU	conflict	UNP Q5SHP7

- Molecule 53 is a protein called 30S ribosomal protein S18.

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

- Molecule 54 is a protein called 30S ribosomal protein S19.

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

- Molecule 55 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	BW	99	Total	C	N	O	S	0	0	0
			762	469	162	129	2			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BW	41	VAL	ILE	conflict	UNP Q5SIH2

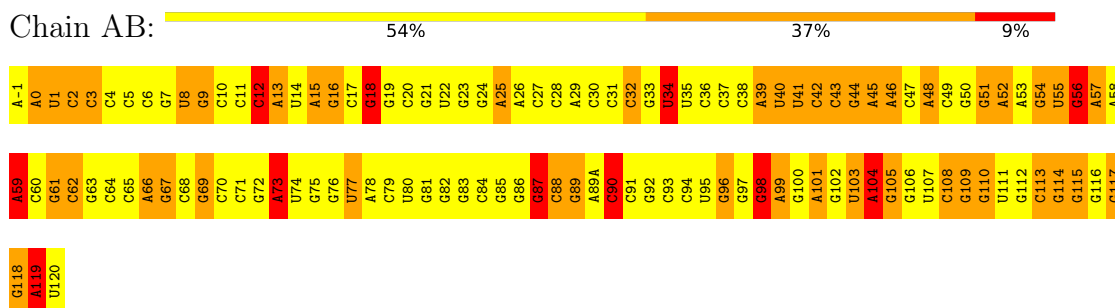
- Molecule 56 is a protein called 30S ribosomal protein Thx.

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

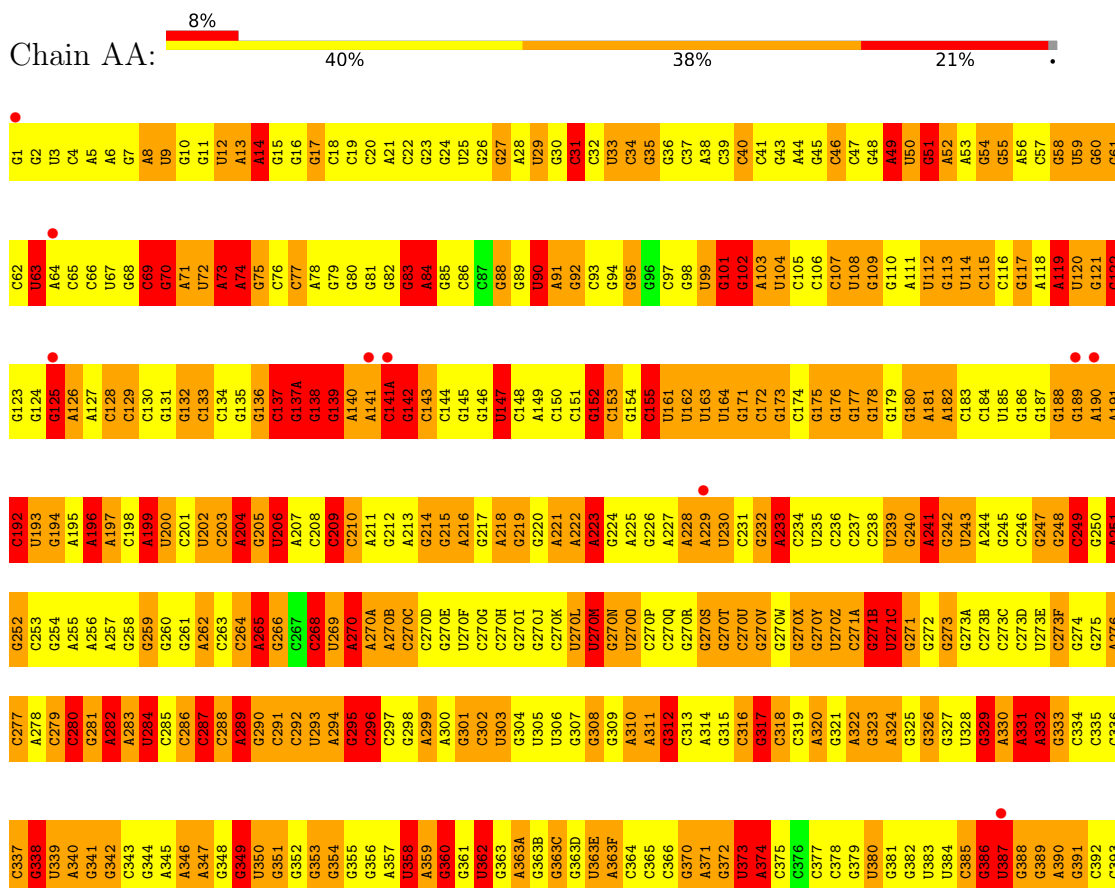
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and 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: 5S ribosomal RNA



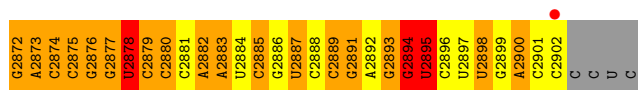
• Molecule 2: 23S ribosomal RNA



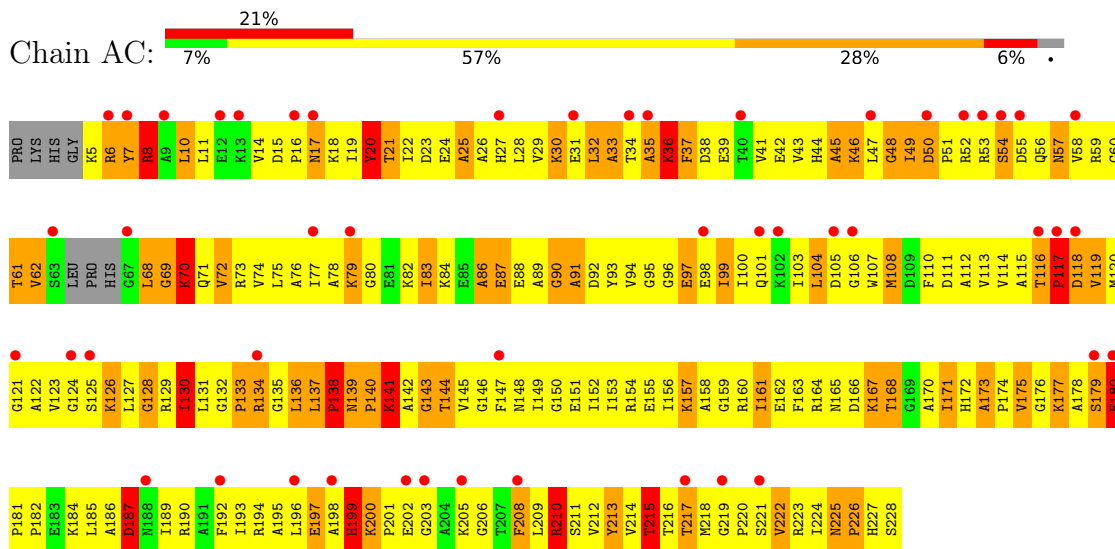
G1154	A1095	U1035	G975	C915	G854	G794	A734	G674	C635	G577	A515	A454	A394
A1155	A1096	G1036	C976	G916	G855	C995	A735	A675	G636	A578	C516	C455	U395
A1156	A1097	G1037	G977	G917	C856	C796	A736	A676	A637	C579	C517	C456	G396
G1157	A1098	G1038	G978	A918	C857	C797	C737	A677	G638	C580	G518	C457	G397
C1158	G1099	G1039	G979	G919	U858	G798	G738	C678	U639	C581	U519	G458	G398
U1159	G1100	C1040	A980	G920	G859	G799	G739	G679	G640	G582	G520	U459	G399
U1160	U1101	G1041	A981	G921	U860	A800	U740	G680	C641	G583	G521	A460	G400
C1161	C1102	G1042	C982	U922	A861	G801	G741	G681	G642	C584	G522	A461	A401
A1162	A1103	G1043	A983	G923	G862	A802	G742	G682	A643	C585	C523	C462	A402
G1163	C1104	A1044	C984	C924	A863	A803	G743	G683	A644	C586	U524	G463	U403
U1164	U1105	A1045	C985	G925	G864	A804	G744	G684	G645	C587	U525	U464	C404
U1165	G1106	A1046	G986	A926	G865	G805	G745	A685	A646	U588	A526	G465	U405
G1166	G1107	G1047	G987	G928	A866	C806	A746	G686	G647	C589	C527	A466	G406
U1167	U1108	A1048	A988	G929	C867	U807	U747	C887	G648	A590	A528	G467	G407
G1168	G989	C1049	U989	U930	U868	G808	G748	U688	G649	C591	A529	G468	G408
C1169	G1109	A1050	A990	G931	G869	G809	C749	A689	C	C592	G530	G469	G409
G1170	A1111	G1051	C991	G932	A870	U810	A750	G690	G	G593	C531	A470	G410
G1171	G1112	C1052	C992	A933	U871	U811	A751	C691	C	U594	A532	A471	G411
G1173	U1113	C1053	G993	G934	A872	C812	A752	C692	A	C595	G533	A472	A412
A1174	G1114	A1054	C994	C935	G873	U813	C753	C693	G	U596	U534	G473	C413
U1175	C995	G1055	C995	C936	G874	C814	C754	U694	G	C597	C535	G474	C414
G1176	C1116	A1056	A996	U937	G875	C815	C755	G695	C	U598	A536	U475	A415
A1177	G1117	A1057	G997	G938	G876	C816	C756	G696	G	C599	C537	G476	C416
C1178	C1118	G1058	C998	G939	U877	C817	U757	C697	G	G600	G539	A477	G417
G1179	U1119	U1059	U999	G940	A878	G818	C758	G698	G	C601	G540	A478	G
C1180	G1120	U1060	A1000	A941	G879	A819	G759	A699	C	G602	C541	A479	C418
C1181	C1121	U1061	A1001	G942	G880	A820	G760	G700	C	A603	C542	A480	C419
A1182	G1122	G1062	G1002	U943	G881	A821	A761	G701	G	C604	C543	G481	C420
G1183	G1123	G1063	G1003	G944	G882	U822	U762	G702	G	U605	G544	A482	U421
C1184	C1124	C1064	C1004	A945	G883	G823	G763	U703	A	C606	G545	A483	A422
A1185	G1125	U1065	C1005	G946	C884	A824	A764	G704	C	U607	C546	C484	A423
G1186	C1066	U1066	C1006	G947	C885	C825	G765	A705	G	A608	A547	C485	C424
A1187	A1067	A1067	C1007	C948	C886	U826	C766	A706	C	A609	A548	C486	C425
U1188	G1068	G1068	C1008	C949	A887	U827	U767	G707	G	G609A	G549	C487	C426
A1189	A1129	A1069	A1009	C950	C888	U828	G768	G708	G	C610	G550	G488	U427
U1190	U1130	A1070	C951	C951	C889	A829	G769	U709	C	C611	G551	G489	A428
G1191	G1131	G1071	G1011	G952	A890	G830	G770	G710	G	G612	G552	G491	A429
G1192	A1132	C1072	U1012	A953	G892	G831	G771	G711	G	U613	U553	A492	G430
G1193	U1133	A1073	C1013	G954	C893	G832	U772	G712	C	U614	U554	A493	U431
A1194	G1134	G1074	U1014	C955	C894	U833	U773	G713	A	G615	G556	G494	A432
G1195	C1135	C1075	G1015	G956	U895	C834	A774	U714	A	A616	U557	G495	C433
C1196	G1136	G1076	G1016	A957	A896	A835	G775	G715	A	G617	G558	G496	U434
U1197	G1137	A1077	G1017	U958	C897	G836	G776	A716	G	G618	G559	A497	C435
G1198	G1138	U1078	C1018	C959	C898	C837	A777	G717	U	C618A	C560	G498	C436
U1199	G1139	C1079	U1019	A960	A899	C838	G778	A718	C	G619	G561	U499	C438
C1200	C1140	U1080	A1020	C961	A900	U839	U779	C719	C	G620	U562	G500	G439
U1201	U1141	U1081	A1021	G962	A901	C840	G780	C720	A	A621	G563	A501	G440
C1202	U1142	G1082	G1022	U963	C902	A841	A781	C721	C	G622	C564	A502	U441
A1424	A1424	U1083	U1023	C964	C903	G842	A782	A722	G	G623	C565	A503	G442
A1204	A1143	A1084	G1024	C965	C904	G843	A783	G723	C	C624	U566	A504	A443
U1205	G1144	A1085	G1025	G966	U905	C844	A784	U724	C	G625	A567	A505	C444
G1206	C1145	A1086	U1026	C967	G906	G845	G785	G725	C	U626	U568	G506	C445
C1207	G1087	G1087	A1027	G968	U907	C946	C786	G726	C	A627	U569	A507	G446
C1208	C1147	A1088	A1028	U969	C908	U847	U787	A727	C	G628	G570	G508	A447
G1209	A1148	G1089	A1029	C970	A909	G848	A788	G728	C	G629	A571	C509	U448
U1210	G1149	U1090	G1030	C971	A910	A849	A789	G729	C	C630	A572	C510	A449
U1211	C1150	G1091	G1031	G972	A911	C850	C790	C730	C	A631	G573	U511	G450
G1212	G1151	U1092	A1032	A973	C912	U851	C791	C731	C	A632	C574	G512	C451
A1213	G1152	G1093	U1033	G974	U913	C672	C792	C732	C	A633	A575	G513	G452
A1214	C1153	U1094	G1034	C974A	C914	G853	A793	G733	C	C634	U576	A514	C453

G1959	G1899	G1830	G1770	G1694	G1634	G1574	G1515	G1454	A1395	U1335	G1275	G1215
G1960	G1900	G1831	G1771	G1695	G1635	G1575	U1516	G1455	G1396	A1336	A1276	G1216
G1961	G1901	G1832	G1772	G1696	G1636	U1576	G1517	G1456	U1397	G1337	G1277	G1217
G1962	G1902	G1833	G1773	G1697	G1637	G1577	C1518	A1457	C1398	G1338	A1278	G1218
G1963	G1903	G1834	G1774	G1698	G1638	U1578	G1519	G1458	G1399	G1339	G1279	G1219
G1964	G1904	G1835	U1775	G1699	U1639	A1579	U1520	G1459	G1400	U1340	G1280	A1220
G1965	G1905	G1836	G1776	G1700	G1640	G1580	G1521	A1460	G1401	U1341	G1281	C1221
G1966	G1906	G1837	U1777	A1701	G1641	G1581	G1522	A1461	G1402	A1342	U1282	C1222
G1967	G1907	G1838	U1778	G1702	G1642	G1582	U1523	C1463	G1403	G1343	G1283	C1223
G1968	G1908	G1839	U1779	G1703	G1643	A1583	G1524	C1463	C1404	G1344	A1284	G1224
G1969	G1909	G1840	A1780	G1704	G1644	G1585	G1525	G1464	G1405	G1345	G1285	C1225
G1970	G1910	U1841	G1781	G1705	G1645	A1586	G1526	G1465	U1406	G1346	A1286	G1226
A1971	U1911	G1842	C1782	U1706	G1646	A1587	G1527	G1466	C1407	G1347	A1287	A1227
A1972	A1912	G1843	G1783	G1707	G1647	G1588	A1528	C1467	C1408	G1348	G1228	
G1973	A1913	G1844	A1784	C1708	G1648	G1589	A1529	C1468	A1409	A1349	G1289	G1229
G1974	G1914	G1845	A1785	U1709	G1649	U1590	G1530	A1469	G1410	C1350	G1290	G1230
G1975	U1915	G1846	A1786	C1710	G1650	G1591	G1531	G1470	C1411	C1351	C1291	G1231
U1976	A1916	A1847	A1787	C1711	G1651	C1592	C1532	A1471	A1412	U1352	U1292	G1232
A1977	G1848	A1849	G1788	C1712	A1652	G1593	G1533	G1472	G1413	A1353	G1293	C1233
A1978	A1918	G1849	A1789	G1716	G1653	G1594	G1534	A1473	G1414	A1354	U1294	U1234
G1979	A1919	G1850	G1790	G1717	A1654	G1595	U1535	C1474	U1415	G1355	C1295	G1235
G1980	C1920	U1851	A1791	G1718	A1655	A1596	A1536	G1475	G1416	G1356	G1296	G1236
A1981	G1852	G1853	G1792	G1725	G1656	A1597	C1537	C1476	G1417	U1357	C1297	A1237
G1982	G1922	A1853	C1793	G1726	C1657	G1598	G1538	A1477	G1418	C1358	G1298	G1238
G1983	U1923	A1854	U1794	U1727	C1658	C1599	G1539	A1478	A1419	A1359	G1299	G1239
G1984	G1924	G1855	G1795	G1728	U1659	G1600	G1540	G1479	U1420	A1360	U1300	U1240
G1985	C1925	G1856	U1796	A1729	G1660	G1601	U1541	G1480	A1421	G1361	A1301	A1241
U1926	U1926	G1857	C1797	U1730	G1661	U1602	G1542	A1482	G1422	C1362	A1302	A1242
G1987	A1927	G1858	U1798	G1731	C1662	A1603	A1543	G1483	G1423	G1363	G1303	G1243
C1988	A1928	A1859	G1799	A1732	C1663	C1604	C1544	G1484	G1424	G1364	C1304	G1244
G1989	G1929	G1860	C1800	G1733	A1664	G1605	A1545	G1485	G1425	A1365	C1305	G1245
G1990	C1930	G1861	G1801	C1734	A1665	G1606	A1546	A1486	G1426	A1366	A1246	
U1991	A1931	G1862	A1802	G1735	G1666	C1607	C1546	G1487	A1427	A1367	A1307	A1247
G1992	G1932	G1863	A1803	C1741	G1667	A1608	C1547	G1488	C1428	G1368	A1248	
U1993	G1933	G1864	C1804	G1742	A1668	A1609	C1548	U1489	G1429	G1369	G1309	U1249
C1994	C1934	G1869	U1805	G1743	A1669	A1610	C1549	A1490	C1430	C1370	G1310	G1250
U1995	G1935	C1870	C1806	G1746	C1670	C1611	C1550	G1491	U1431	G1371	G1311	C1251
G1996	A1936	A1871	U1671	G1747	U1672	C1612	C1551	G1492	C1432	U1372	A1312	G1252
G1997	G1937	A1872	U1808	G1748	C1672	G1613	G1552	C1493	U1433	A1373	C1253	G1253
G1998	A1938	G1878	A1809	A1749	U1673	A1614	A1553	A1494	A1434	G1374	A1254	
C1999	U1939	C1879	A1810	G1750	G1674	C1615	A1554	A1495	G1435	C1375	C1315	U1255
G2000	U1940	C1880	G1811	C1751	C1675	A1616	G1555	A1496	G1436	C1376	U1256	
A2001	G1941	C1881	A1812	G1752	A1676	C1617	C1556	U1497	C1437	A1378	C1317	G1257
G2002	C1942	C1882	G1813	G1753	A1677	A1618	C1557	U1498	U1438	A1379	C1318	C1258
G2003	U1943	G1883	G1814	C1754	G1678	G1619	A1558	C1499	A1439	G1380	G1319	G1259
G2004	A1944	A1884	A1815	A1755	U1679	G1620	G1559	G1500	G1440	G1381	C1320	G1260
A2005	G1945	A1885	G1816	G1756	U1680	U1621	G1560	C1501	G1441	C1382	A1321	C1261
G2006	U1946	C1886	G1817	U1757	G1681	G1622	G1561	C1502	G1442	G1383	A1322	A1262
C2007	U1947	C1887	U1818	G1758	G1682	G1623	A1562	U1503	G1443	C1384	U1323	U1263
G2008	G1948	A1888	A1819	A1759	C1683	G1624	G1563	C1504	G1444	A1384	G1324	G1264
G2009	G1949	G1889	U1820	A1760	C1684	C1625	C1564	C1505	A444A	G1385	G1325	A1265
G2010	G1950	A1890	A1821	C1761	G1685	G1626	C1565	C1506	G1445	U1386	U1326	G1266
U2011	U1951	G1891	G1822	A1762	C1686	G1627	A1566	A1507	C1446	C1387	C1327	U1267
G2012	A1952	C1892	G1823	G1763	C1687	G1628	A1567	A1508	G1447	G1388	G1328	A1268
A2013	G1953	C1893	G1824	G1764	U1688	U1629	G1568	C1509	G1448	G1389	U1329	A1269
A2014	G1954	A1894	A1825	C1765	A1689	G1630	A1569	A1510	A1449	C1390	G1270	G1270
A2015	U1955	C1895	G1826	U1766	A1690	C630A	A1570	A1511	G449A	U1391	A1331	G1271
U2016	U1956	G1896	C1827	G1767	C1691	A1631	A1571	G1512	C1450	A1392	G1332	A1272
G2017	G1957	G1897	G1828	U1768	U1692	A1632	A1572	C1513	C1451	A1393	U1273	U1273
G2018	C1958	U1898	A1829	G1769	U1693	C1633	A1573	U1514	C1452	A1394	G1334	A1274

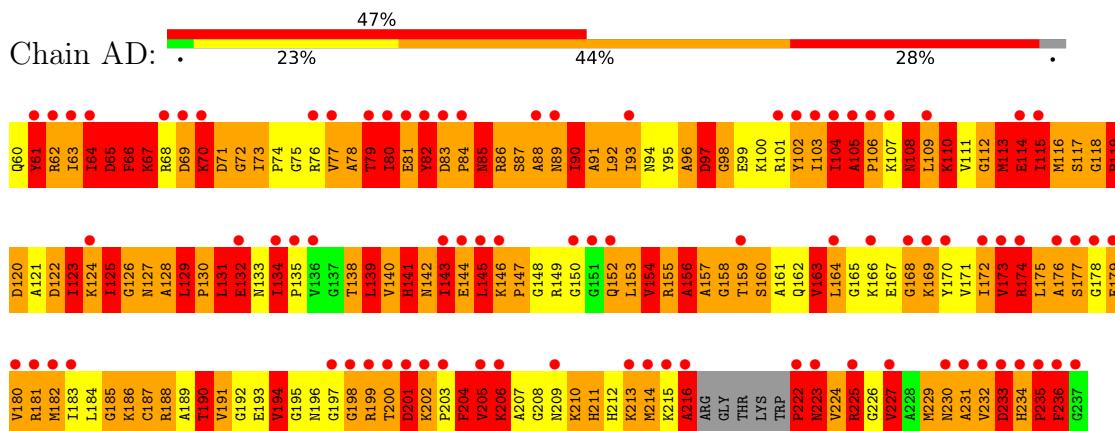




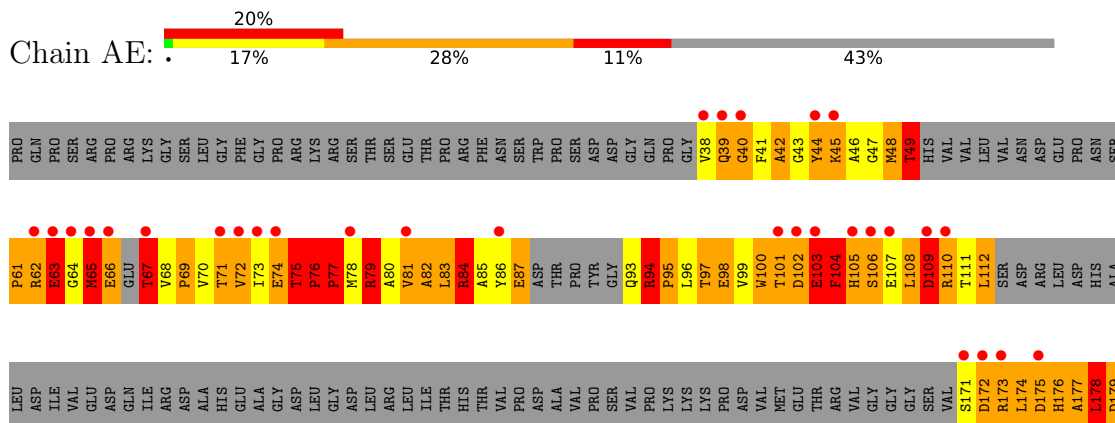
- Molecule 3: 50S ribosomal protein L1

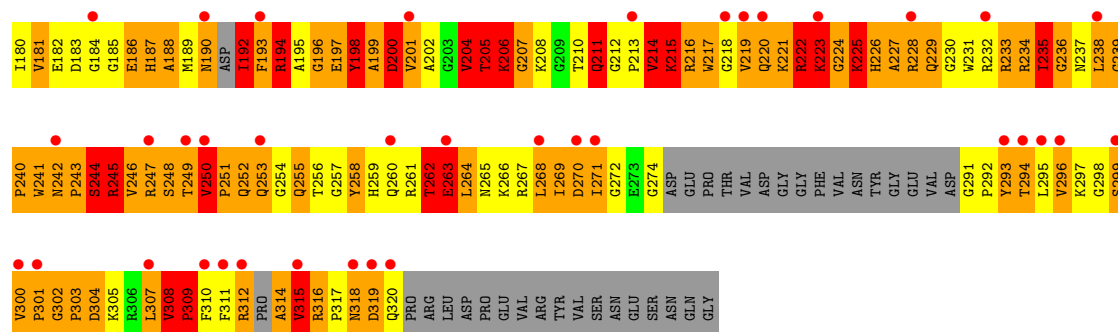


- Molecule 4: 50S ribosomal protein L2

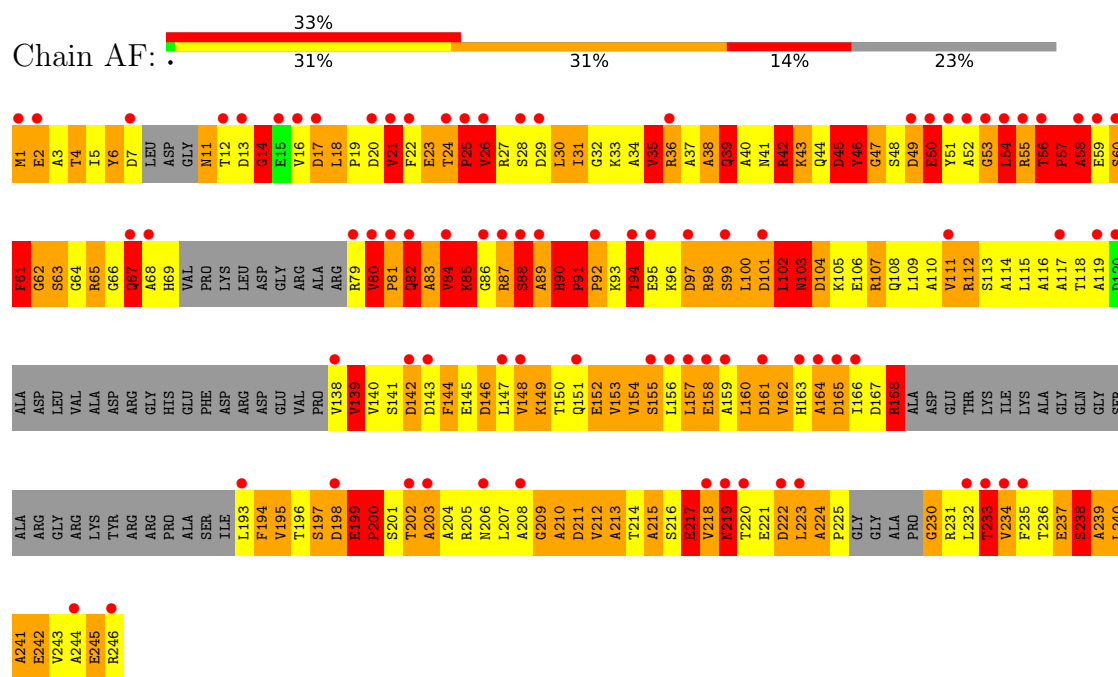


- Molecule 5: 50S ribosomal protein L3

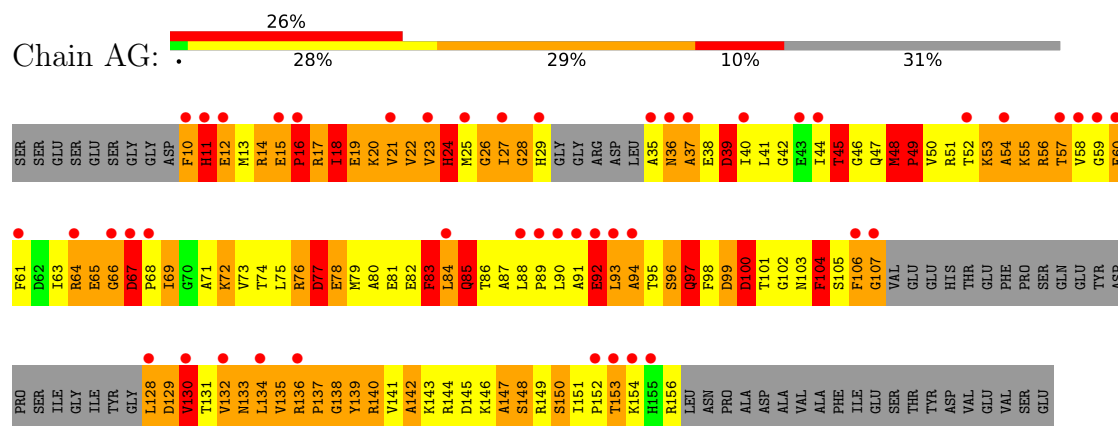




• Molecule 6: 50S ribosomal protein L4

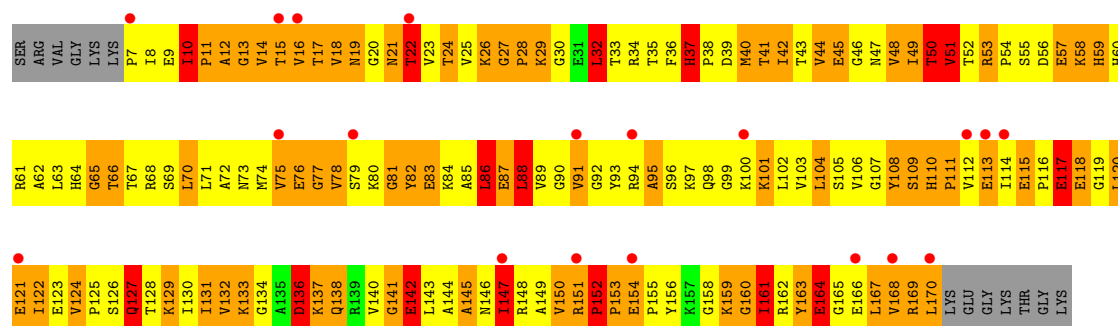


• Molecule 7: 50S ribosomal protein L5

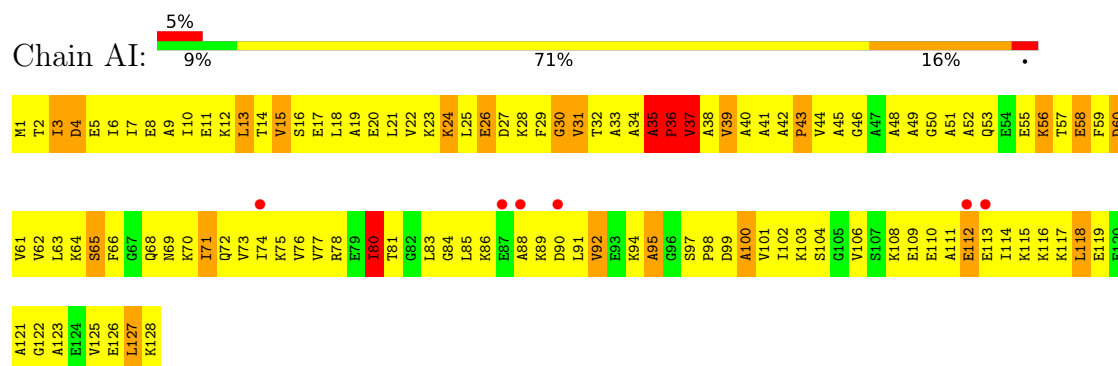


• Molecule 8: 50S ribosomal protein L6

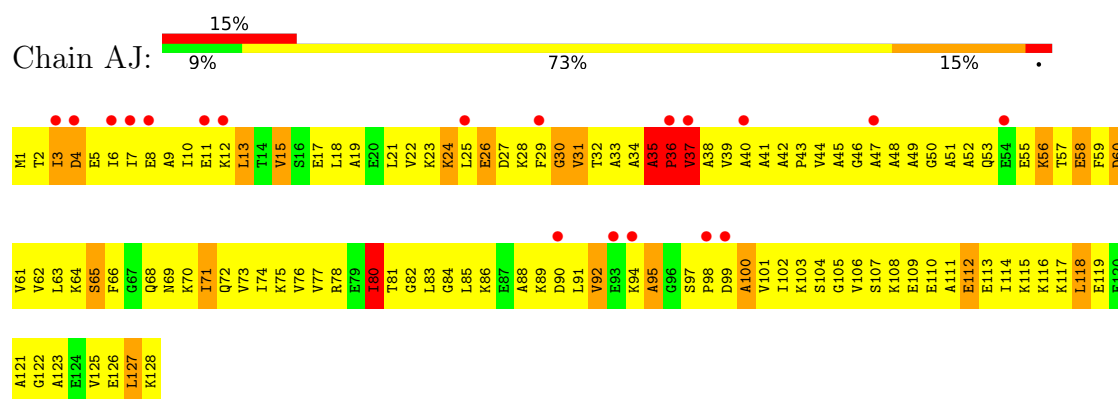




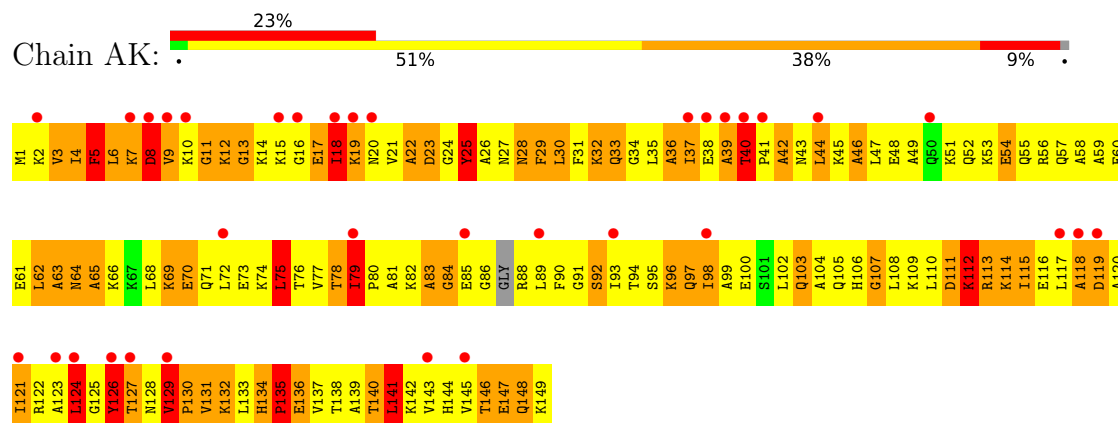
• Molecule 9: 50S ribosomal protein L7/L12



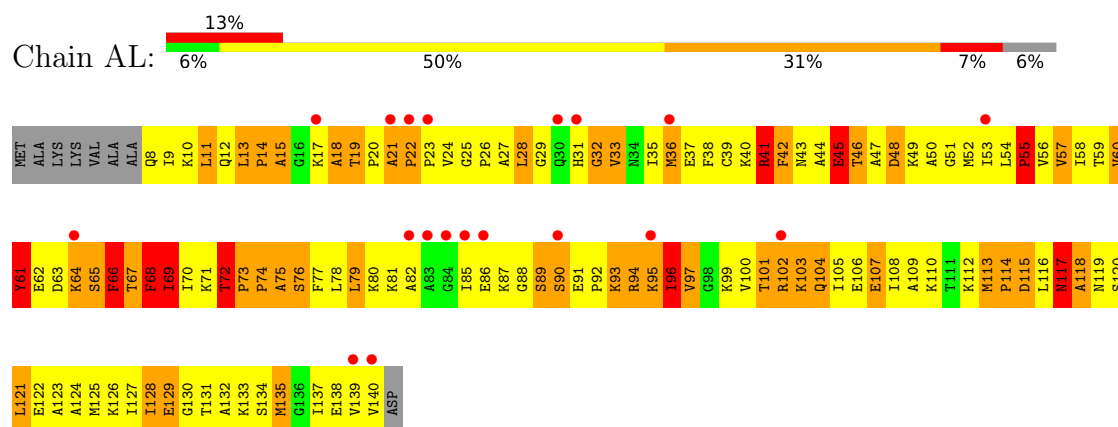
• Molecule 9: 50S ribosomal protein L7/L12



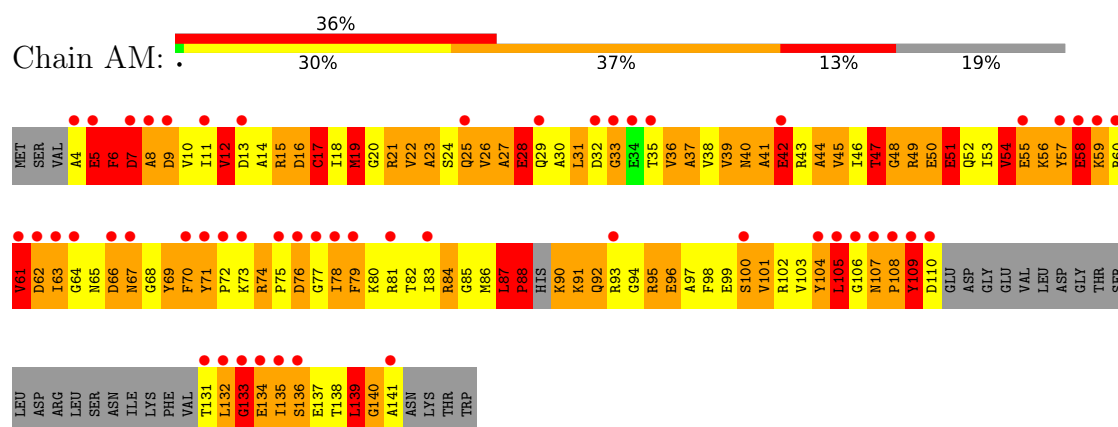
• Molecule 10: 50S ribosomal protein L9



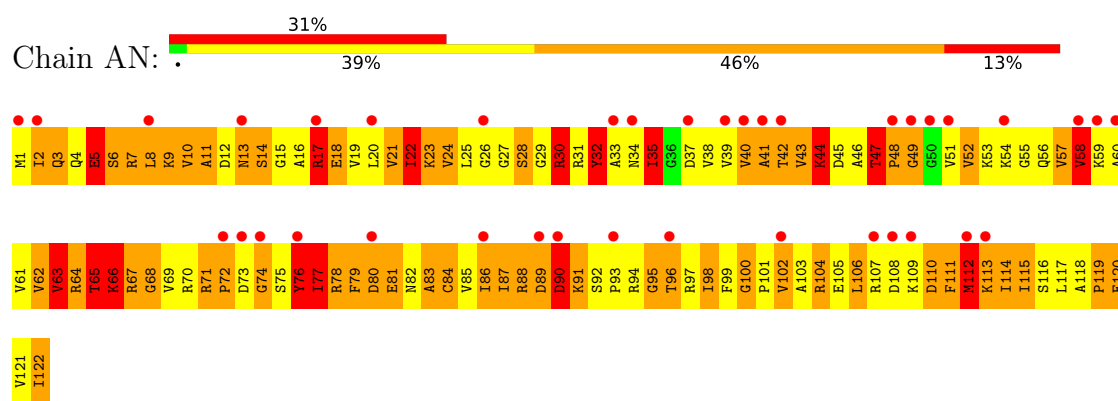
- Molecule 11: 50S ribosomal protein L11



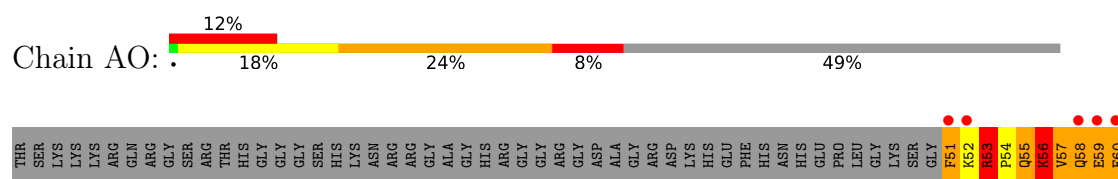
- Molecule 12: 50S ribosomal protein L13

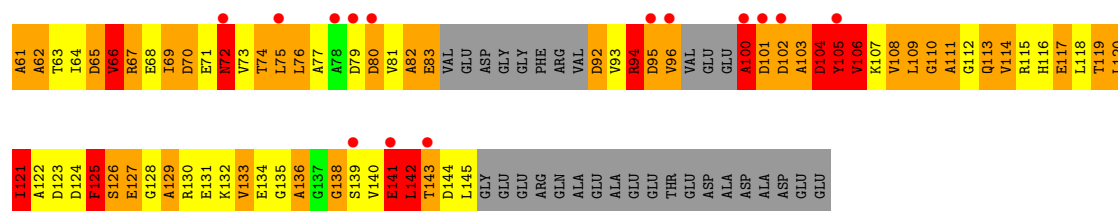


- Molecule 13: 50S ribosomal protein L14

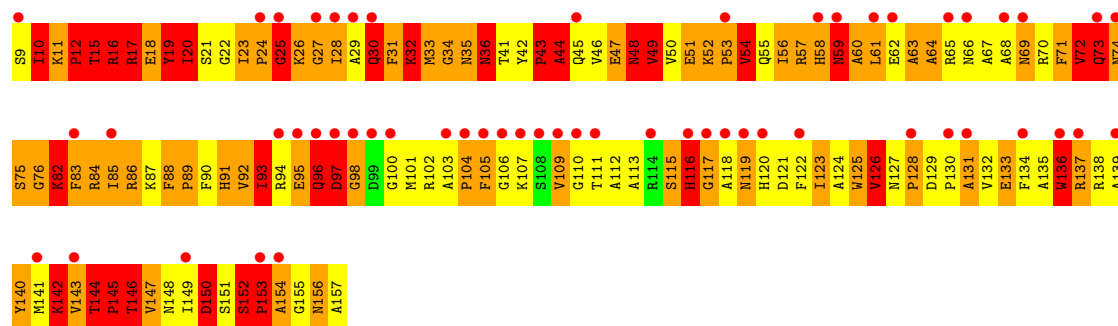


- Molecule 14: 50S ribosomal protein L15

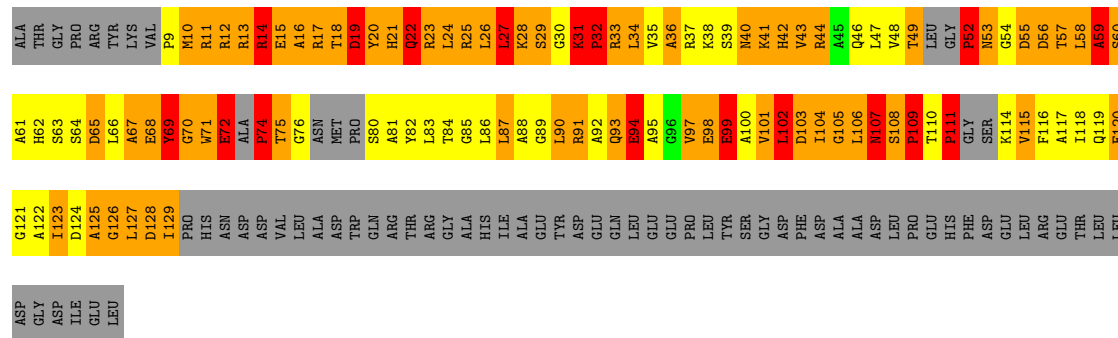
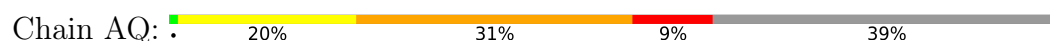




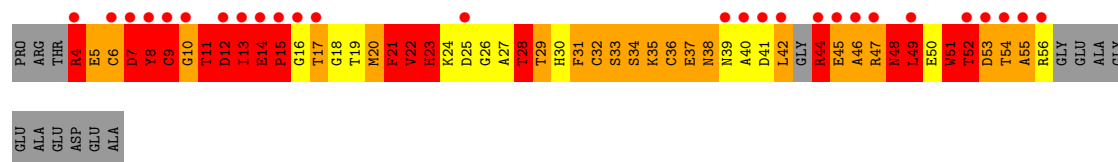
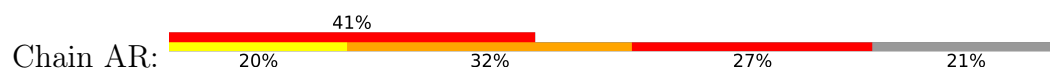
• Molecule 15: 50S ribosomal protein L16



• Molecule 16: 50S ribosomal protein L18

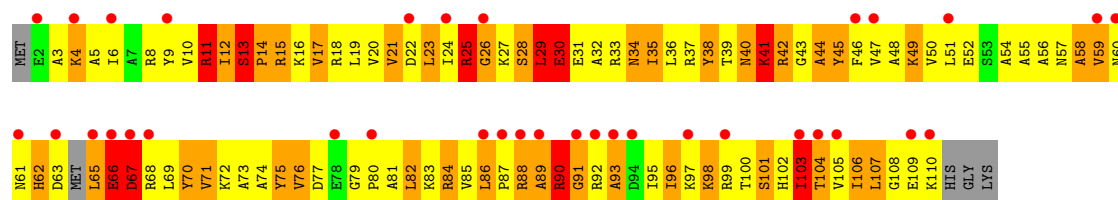


• Molecule 17: 50S ribosomal protein L19

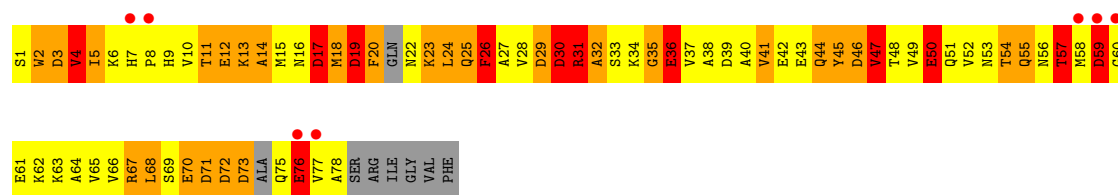


• Molecule 18: 50S ribosomal protein L22

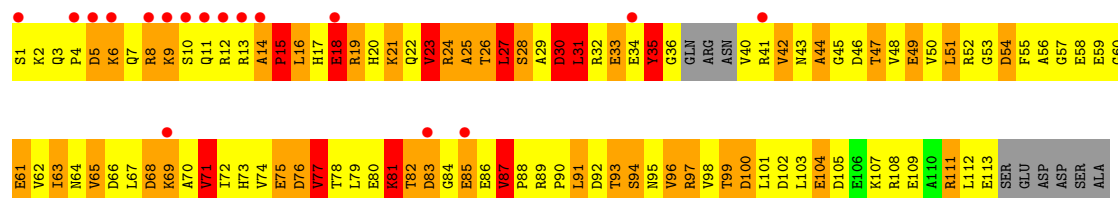




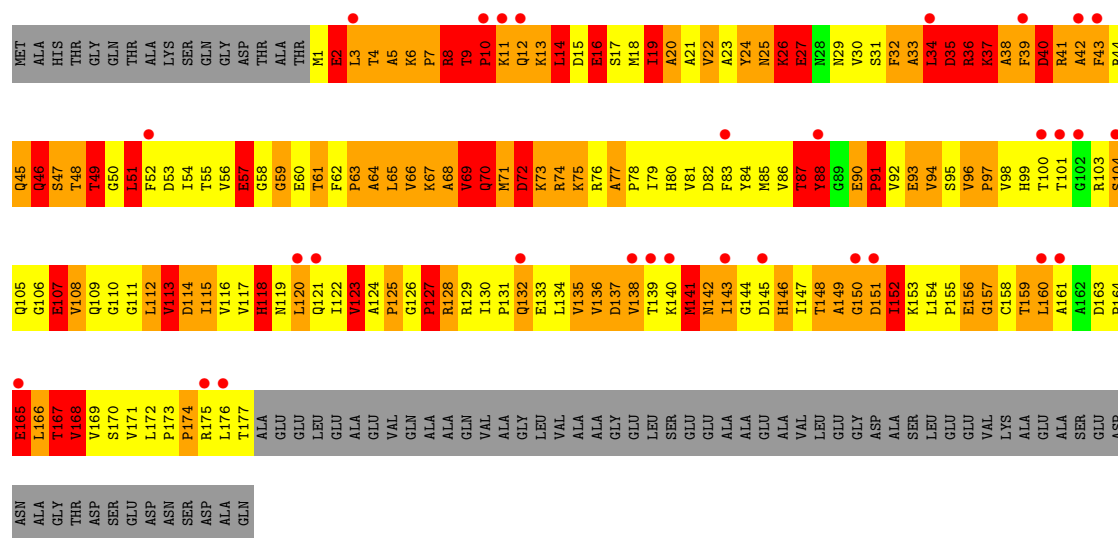
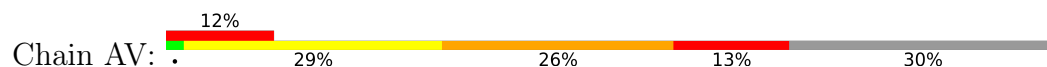
• Molecule 19: 50S ribosomal protein L23



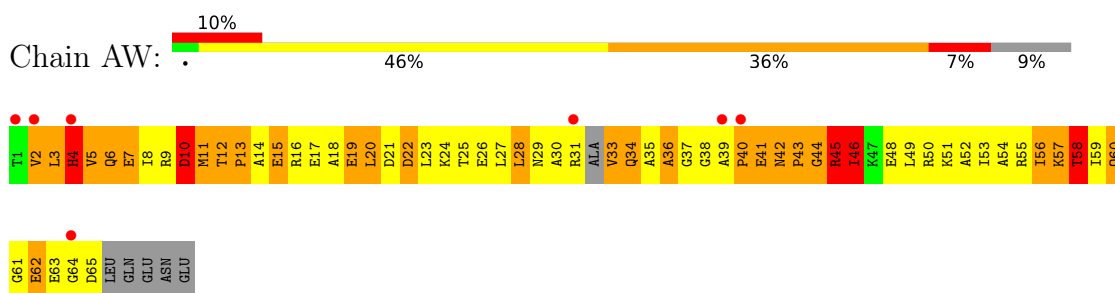
• Molecule 20: 50S ribosomal protein L24



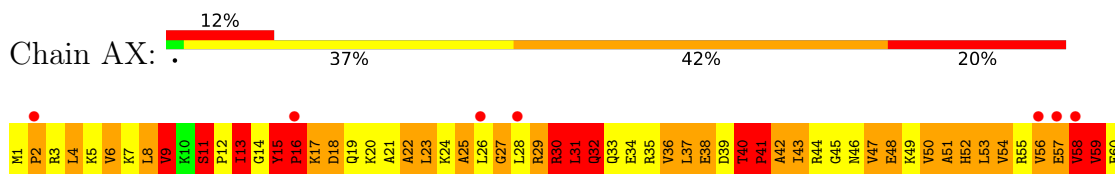
• Molecule 21: 50S general stress protein CTC (L25)



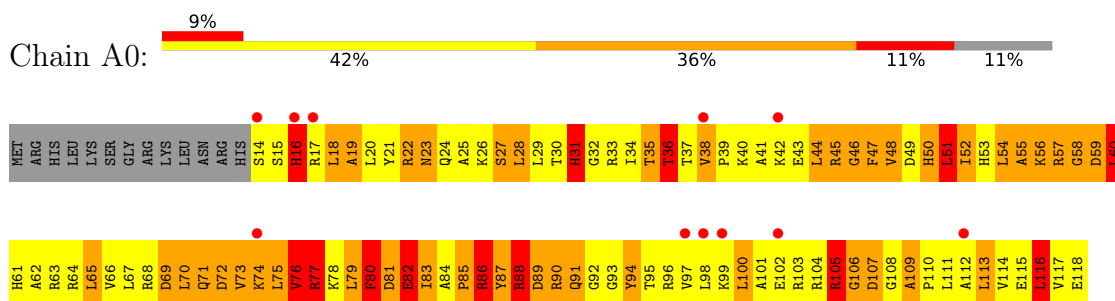
• Molecule 22: 50S ribosomal protein L29



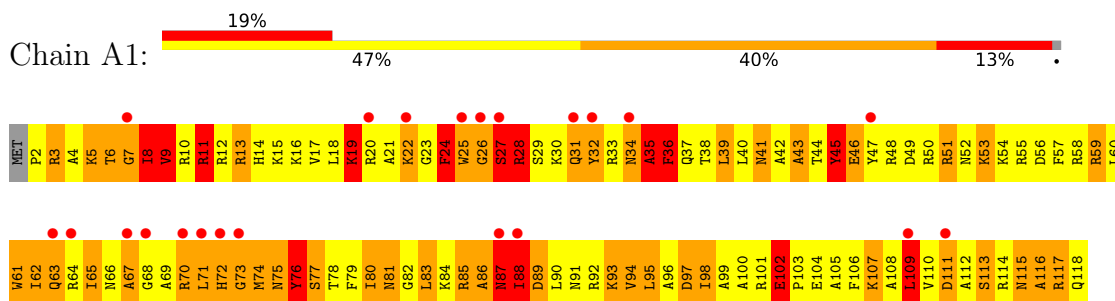
- Molecule 23: 50S ribosomal protein L30



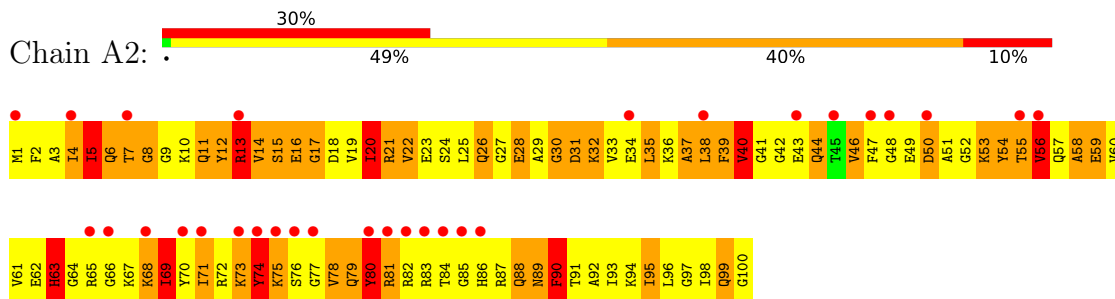
- Molecule 24: 50S ribosomal protein L17



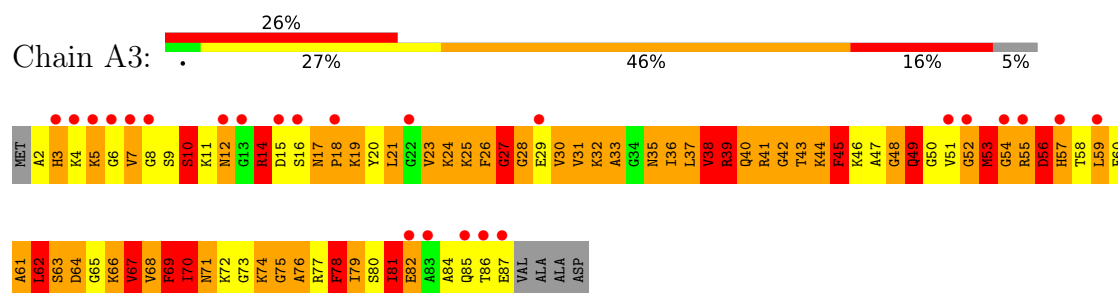
- Molecule 25: 50S ribosomal protein L20



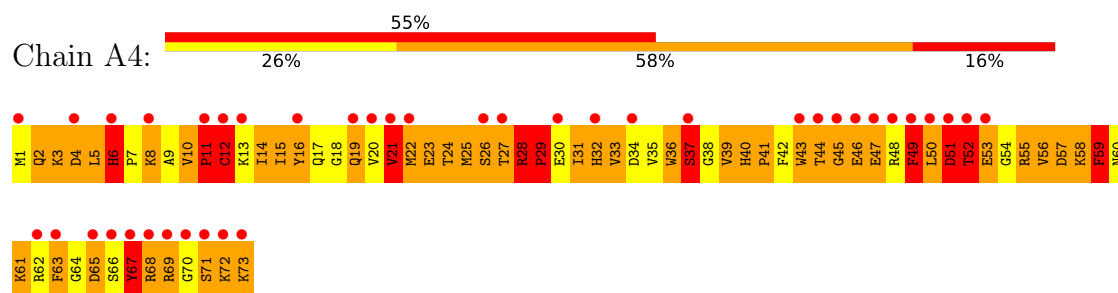
- Molecule 26: 50S ribosomal protein L21



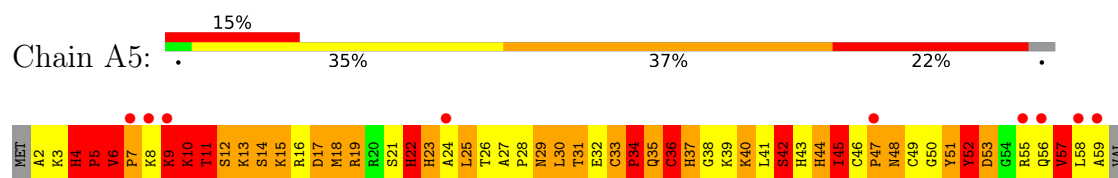
- Molecule 27: 50S ribosomal protein L27



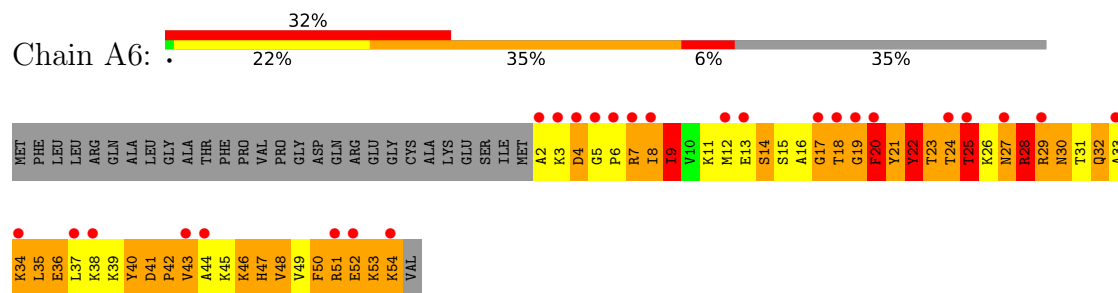
• Molecule 28: 50S ribosomal protein L31



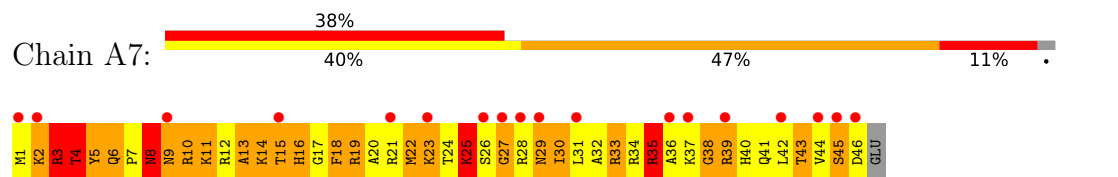
• Molecule 29: 50S ribosomal protein L32



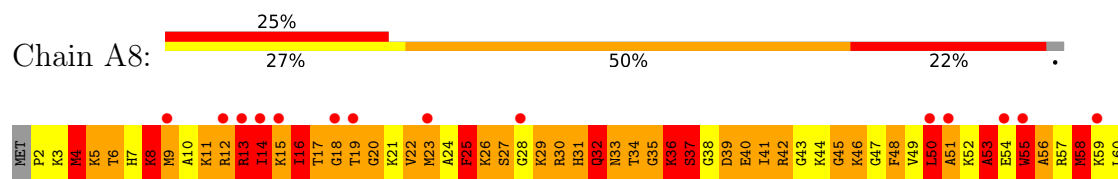
• Molecule 30: 50S ribosomal protein L33



• Molecule 31: 50S ribosomal protein L34

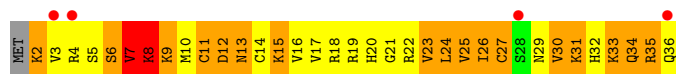


• Molecule 32: 50S ribosomal protein L35

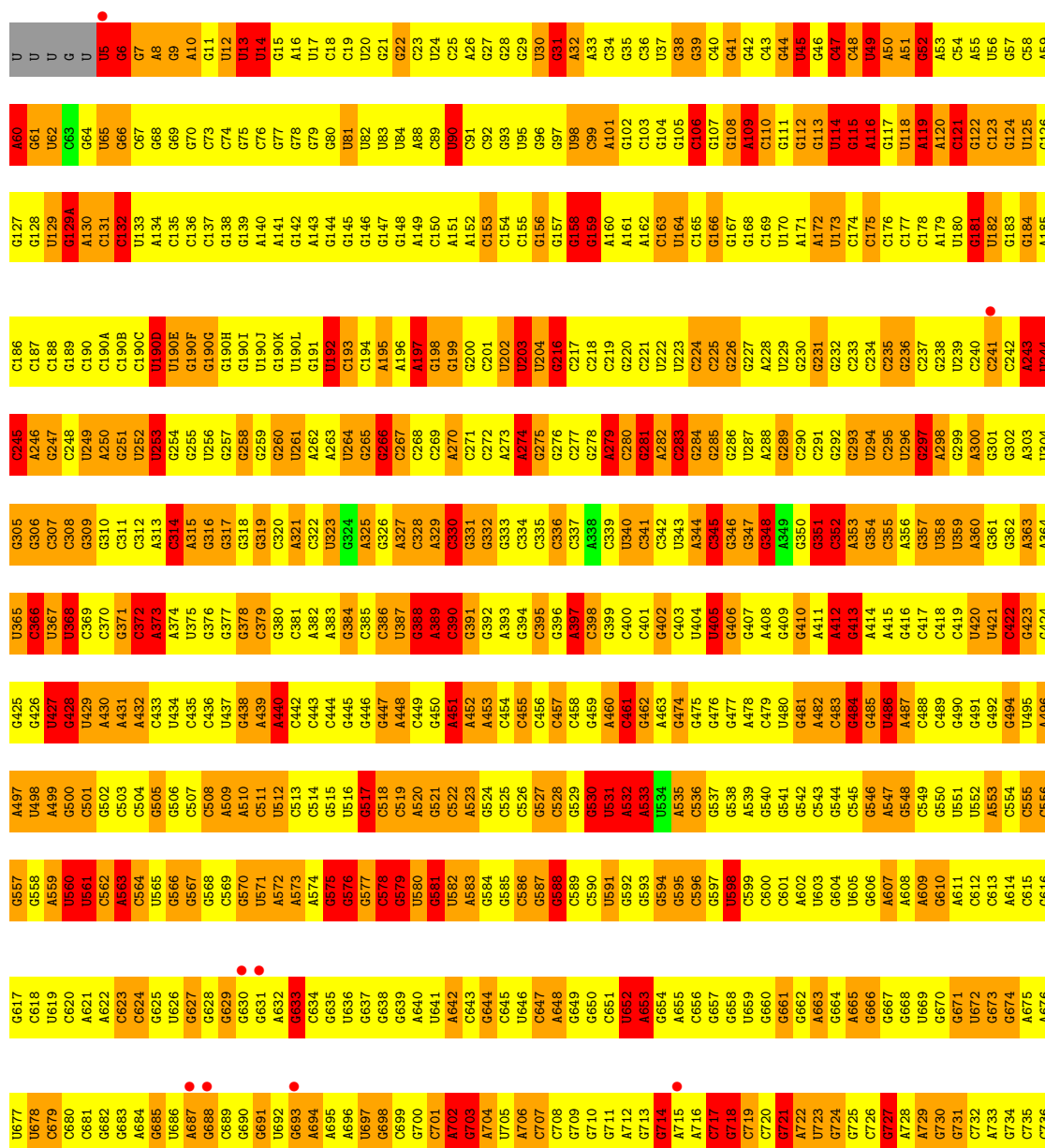




- Molecule 33: 50S ribosomal protein L36



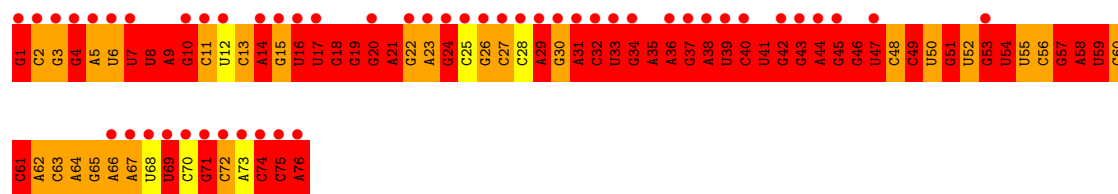
- Molecule 34: 16S rRNA



G1523	G1463	A1398	A1339	A1279	U1219	C1158	C1098	C1038	A983	A923	U853	C797	A737
C1524	G1464	C1399	A1340	A1280	G1220	U1159	G1099	C1039	C984	C924	U854	G798	C738
G1525	C1465	C1400	U1341	U1281	G1221	G1160	C1100	U1040	C985	G925	A864	G799	C739
G1526	C1466	C1401	C1342	U1282	G1222	C1161	A1101	A1041	A986	G926	C866	G800	U740
C1527	G1467	C1402	G1343	G1283	C1223	C1162	C1102	G1042	G987	G927	C867	A801	G741
A1468	C1403	C1403	C1344	G1284	G1224	C1163	C1103	C1043	G988	G928	C868	A802	G742
G1469	U1345	C1404	U1346	A1285	A1225	G1164	G1104	A1044	C989	G929	G869	G803	U743
G1470	U1346	G1405	G1347	A1286	C1226	C1165	A1105	U1045	C990	C930	U870	U804	C744
U1471	G1347	U1406	U1348	A1287	C1227	G1166	G1106	A1046	U991	C931	U871	C805	C745
U1472	U1348	C1407	A1349	A1288	C1228	A1167	C1107	G1047	U992	C932	A872	C806	A746
A1473	A1408	A1408	A1349	A1289	A1229	A1168	G1108	G1048	G993	G933	A873	A807	C747
G1474	C1409	C1409	A1350	G1290	C1230	A1169	C1109	U1049	A994	C934	C874	C808	C748
G1475	U1351	G1410	U1351	G1291	G1231	C1171	A1110	G1050	C995	A935	C875	G809	C749
G1476	C1352	C1411	C1352	U1282	U1232	C1172	A1111	C1051	A996	C936	C876	C810	G750
C1477	G1353	C1412	G1353	G1293	C1233	G1173	C1112	U1052	U997	A937	C877	C811	U751
C1478	A1413	A1413	C1354	G1294	C1234	G1174	C1113	G1053	G998	A938	C878	C812	G752
G1479	G1414	U1414	G1355	G1295	U1235	G1175	C1114	C1054	C999	G939	C879	U813	A753
A1480	G1415	G1415	G1356	C1296	A1236	A1176	C1115	A1055	U1000	C940	C880	A814	A754
U1481	A1357	G1416	A1357	C1297	C1237	G1177	C1116	U1056	A1001	G941	C881	A815	G755
G1482	U1358	G1417	U1358	C1298	A1238	G1178	C1117	G1057	G1002	G942	C882	A816	C756
A1483	C1359	A1418	C1359	A1299	A1239	G1179	C1118	G1058	U1003	U943	C883	C817	U757
C1484	A1360	G1419	A1360	G1300	U1240	A1180	C1119	C1059	G3A	G944	U884	A818	A758
U1485	G1361	C1420	G1361	U1301	G1241	G1181	G1120	C1060	A1004	G945	C885	A819	G759
G1486	C361A	G1421	C361A	U1302	C1242	G1182	U1121	G1061	A946	U946	C886	U820	G760
G1487	C1362	G1422	C1362	U1303	C1243	A1183	U1122	U1062	C1006	G947	G887	G821	G761
G1488	A1363	G1423	A1363	G1304	C1244	G1184	A1123	C1063	C1007	C948	C888	C822	C762
G1489	U1364	C1424	U1364	G1305	A1245	G1185	G1124	G1064	C1008	A949	A889	G823	G763
C1490	G1365	U1425	G1365	A1306	C1246	G1186	U1125	U1065	G1009	U950	C889	C824	C764
G1491	C1366	C1426	C1366	U1307	U1247	G1187	U1126	C1066	G1010	G951	U891	G825	G765
A1492	C1367	U1427	C1367	U1308	A1248	A1188	G1127	A1067	G1011	U952	A892	C826	A766
A1493	G1368	A1428	G1368	G1309	C1249	C1189	C1128	G1068	C893	G953	C893	U827	A767
G1494	C1369	C1429	C1369	G1310	A1250	G1190	C1129	C1069	G1013	G954	C894	A828	A768
U1495	G1370	C1430	G1370	G1311	A1251	A1191	A1130	U1070	A1014	U955	C895	G829	G769
C1496	G1371	C1431	G1371	G1312	A1252	C1192	C1131	C1071	A1015	U956	C896	G830	C770
G1497	G1372	A1432	G1372	U1313	G1253	C1193	C1132	G1072	A1016	U957	C897	U831	G771
U1498	G1373	A1433	G1373	C1314	C1254	U1194	G1133	G1073	G1017	A958	C898	C832	U772
A1499	A1374	A1434	A1374	U1315	G1255	C1195	G1134	G1074	C1018	A959	C899	U833	G773
A1500	U1375	G1435	A1375	G1316	A1256	U1196	U1135	C1075	C1019	U960	A900	C834	G774
C1501	U1376	U1436	U1376	G1317	U1257	G1197	U1136	C1076	U961	U961	A901	U835	G775
A1502	A1377	C1437	A1377	A1318	G1258	G1198	C1137	G1077	G1021	C962	G902	C836	G776
G1503	C1378	G1438	C1378	A1319	C1259	U1199	G1138	U1078	G1022	G963	G903	G837	A777
G1504	G1379	C1439	G1379	C1320	C1260	C1200	G1139	G1079	G1023	A964	C904	C838	C778
G1505	C1380	G1440	U1380	C1321	A1261	A1201	C1140	A1080	U1025	G965	U905	U839	C779
U1506	U1381	G1441	U1381	C1322	C1262	G1202	C1141	G1081	G1026	C967	A907	C840	A780
A1507	C1382	G1442	C1382	G1323	C1263	C1203	G1142	G1082	C1027	C968	A908	U841	A781
G1508	C1383	G1443	C1383	A1324	C1264	A1204	G1143	U1083	C1028	A969	A909	C849	A782
C1509	C1384	A1446	C1384	C1325	G1265	U1205	G1144	G1084	C1029	C970	C910	U850	C783
U1510	G1385	C1447	G1385	C1326	C1266	G1206	C1145	U1085	C1030	G971	U911	G851	G784
G1511	G1386	C1448	G1386	C1327	C1267	G1207	A1146	U1086	G1031	C972	C912	G852	G785
U1512	C1387	U1449	C1387	C1328	A1268	C1208	C1147	G1087	G30A	G973	A913	C853	A786
A1513	C1388	U1450	C1388	A1329	A1269	C1209	U1148	G1088	G30B	G974	A914	C854	U788
C1514	C1389	A1451	C1389	U1330	C1270	C1210	C1149	G1089	G30C	A975	A915	G855	U789
G1515	U1390	C1452	U1390	G1331	G1271	U1211	U1150	U1090	A30D	A976	A916	C856	A790
G1516	U1391	G1453	U1391	A1332	G1272	U1212	A1151	U1091	G1031	G976	G917	C857	G791
A1517	G1392	G1454	G1392	A1333	G1273	A1213	A1152	A1092	G1032	A977	A918	G858	A792
G1518	U1393	G1455	U1393	G1334	C1274	C1214	C1153	A1093	G1033	A978	A919	C859	U793
A1519	A1394	C1459	A1394	C1335	A1275	G1215	G1154	G1094	G1034	C979	A919	A859	U794
G1520	C1395	A1460	C1395	C1336	G1276	C1216	G1155	U1095	A1035	C980	U920	A860	A795
U1521	A1396	G1461	A1396	G1337	C1277	C1217	G1156	U1096	G1036	U981	U921	G861	C796
U1522	C1397	G1462	C1397	G1338	U1278	C1218	A1157	C1097	C1037	U982	G922	C862	

• Molecule 35: tRNA Phe (unmodified bases)

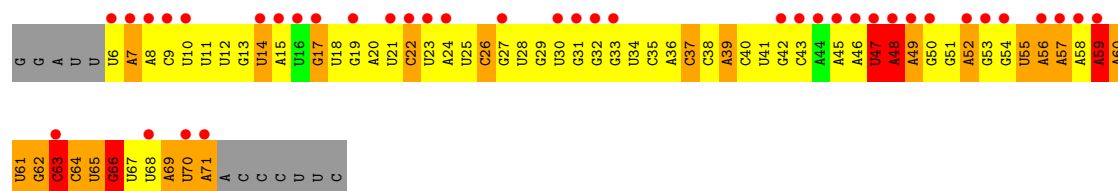




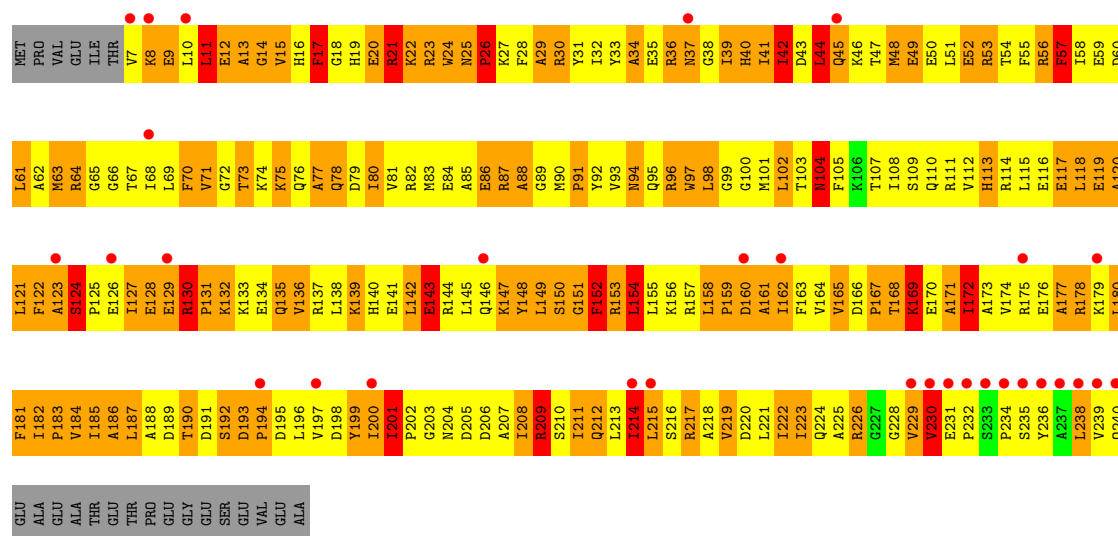
• Molecule 35: tRNA Phe (unmodified bases)



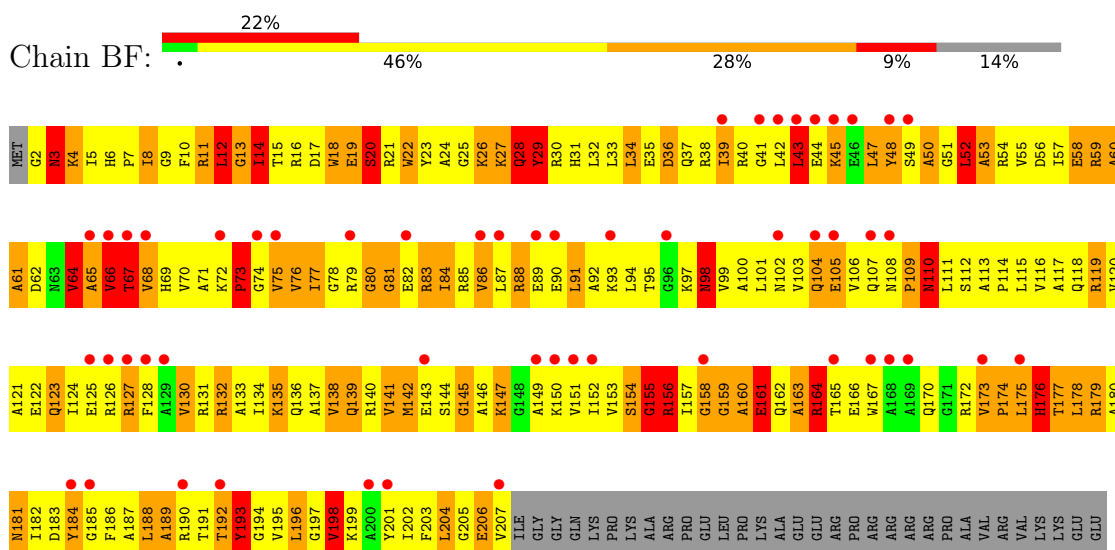
• Molecule 36: thrS mRNA operator



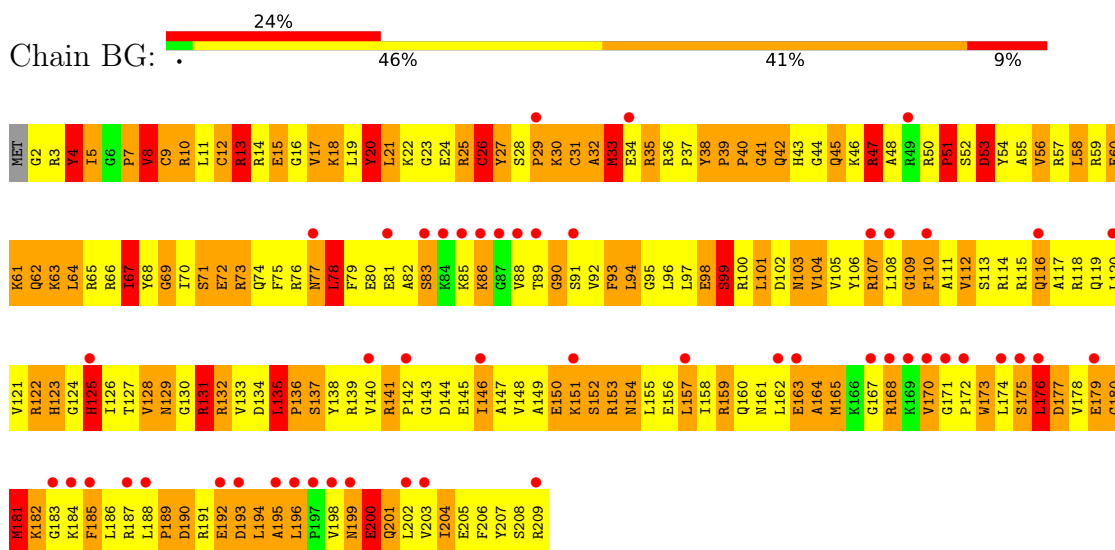
• Molecule 37: 30S ribosomal protein S2



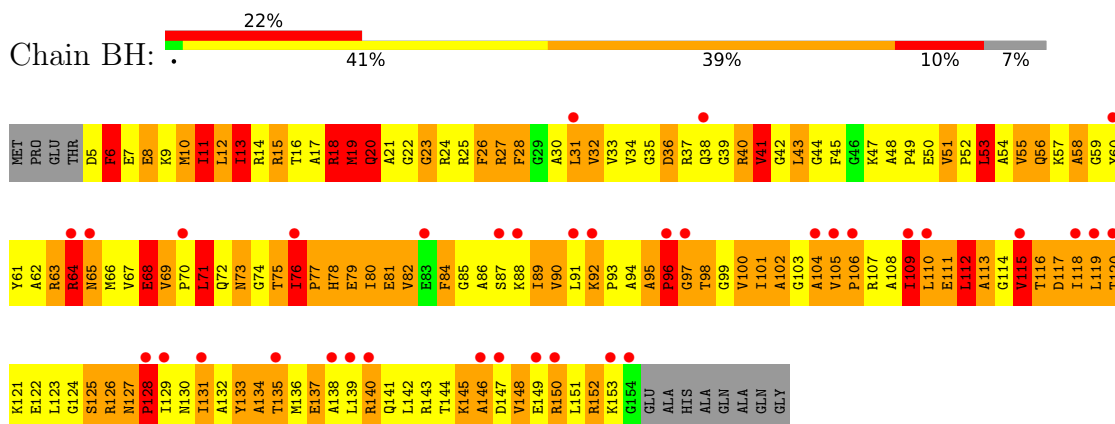
• Molecule 38: 30S ribosomal protein S3



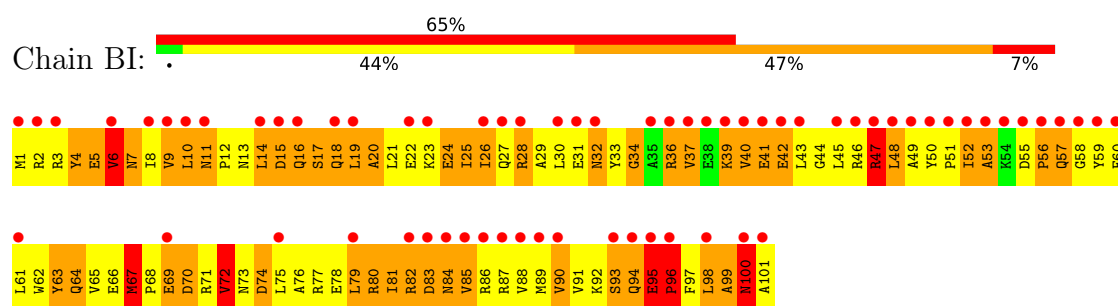
- Molecule 39: 30S ribosomal protein S4



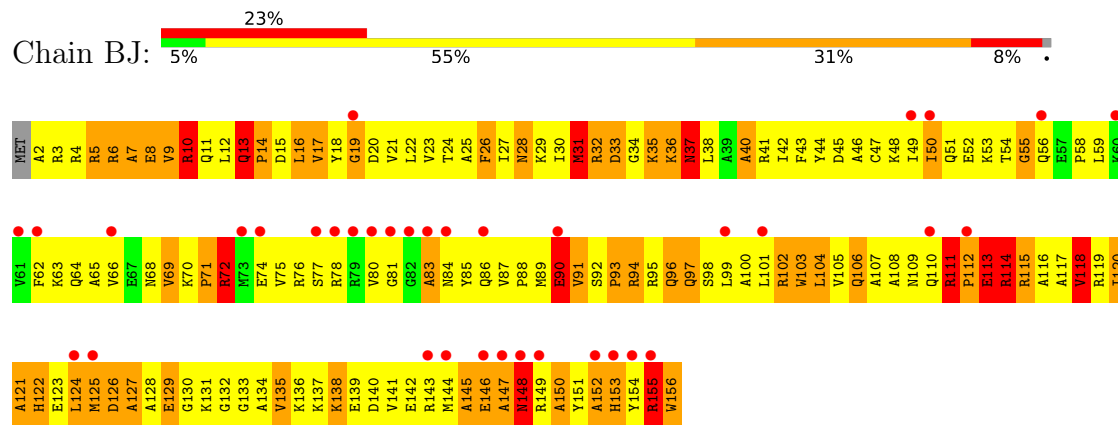
- Molecule 40: 30S ribosomal protein S5



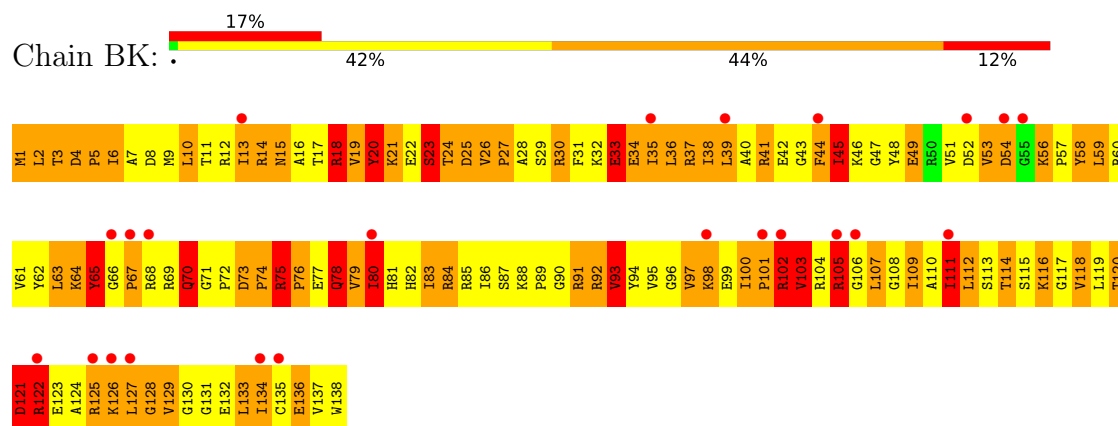
- Molecule 41: 30S ribosomal protein S6



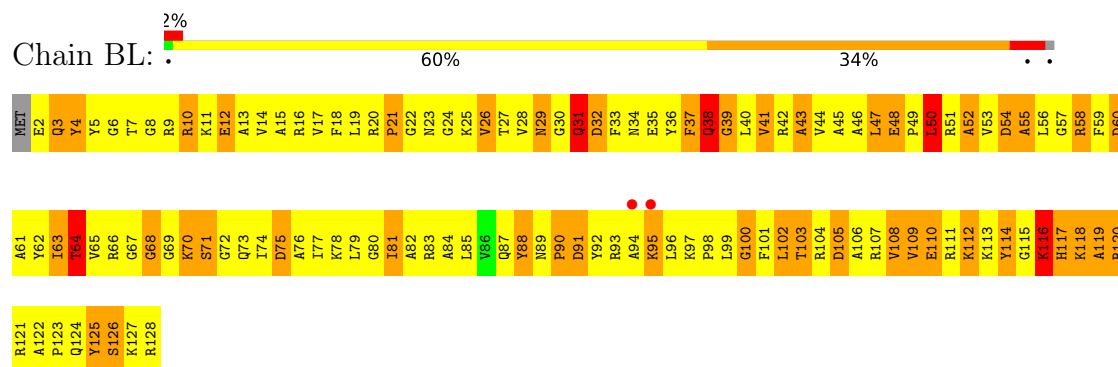
• Molecule 42: 30S ribosomal protein S7



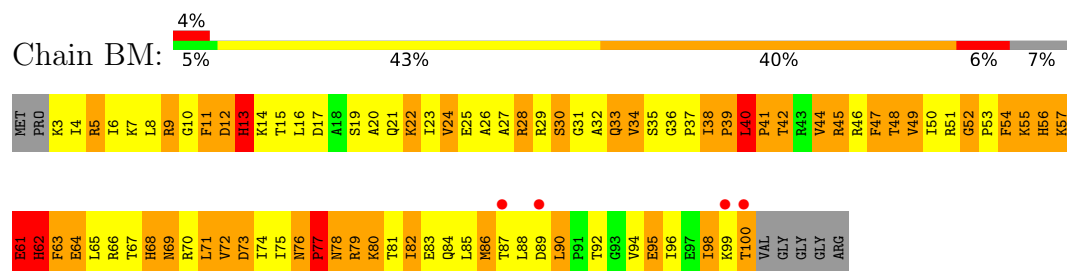
• Molecule 43: 30S ribosomal protein S8



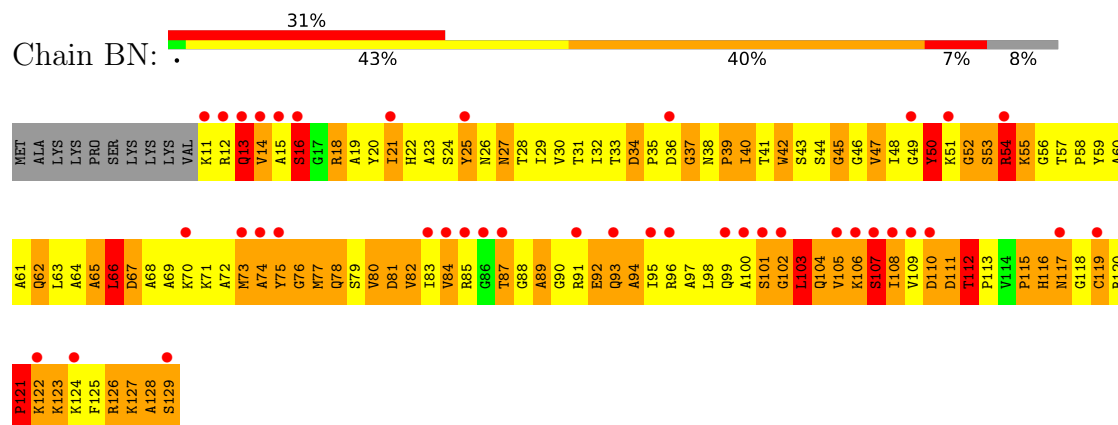
• Molecule 44: 30S ribosomal protein S9



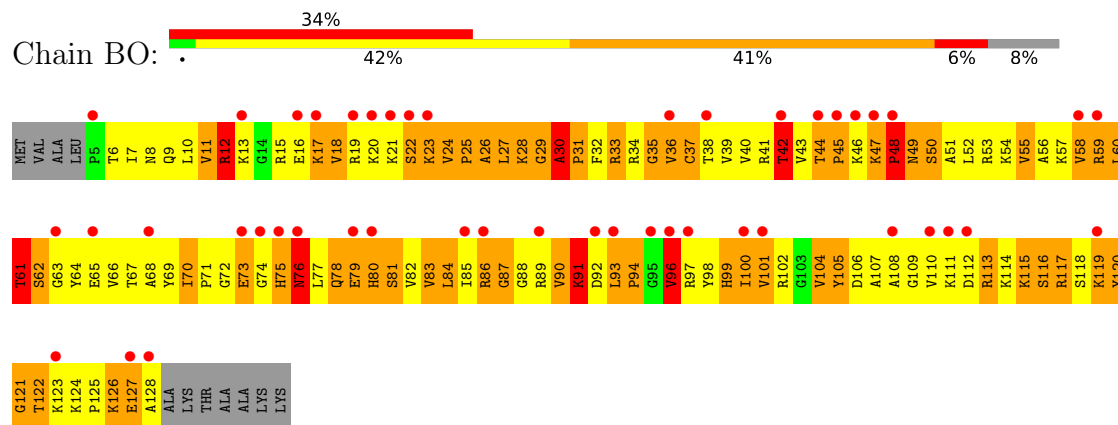
• Molecule 45: 30S ribosomal protein S10



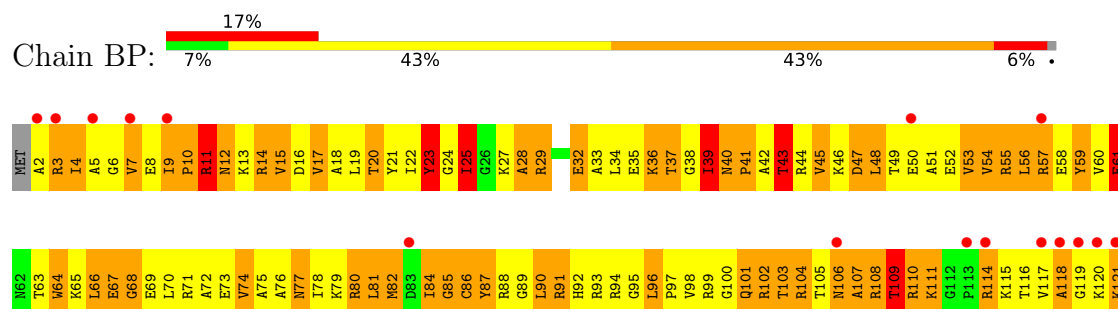
• Molecule 46: 30S ribosomal protein S11

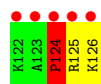


• Molecule 47: 30S ribosomal protein S12

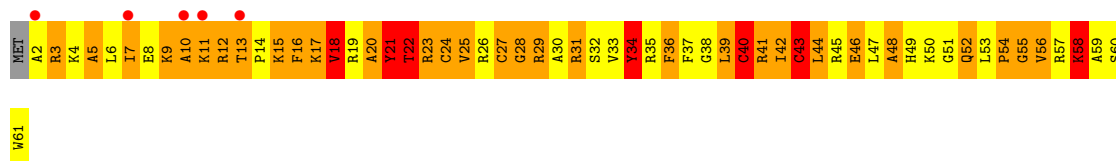


• Molecule 48: 30S ribosomal protein S13

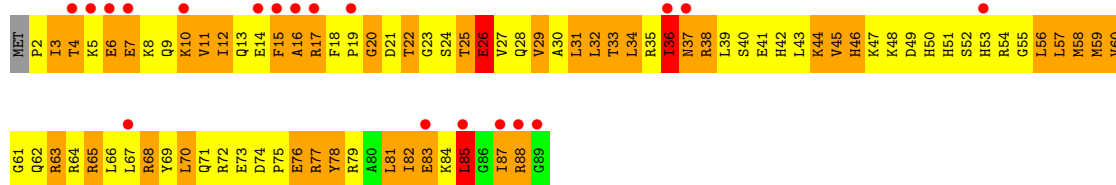




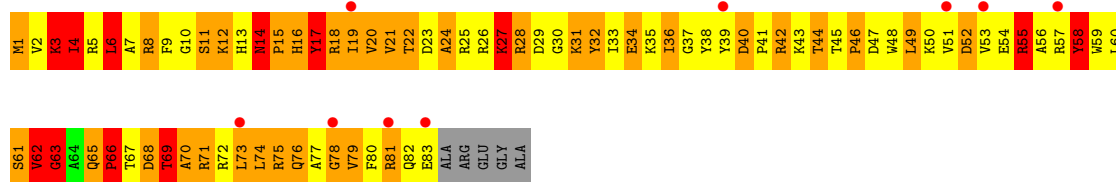
• Molecule 49: 30S ribosomal protein S14



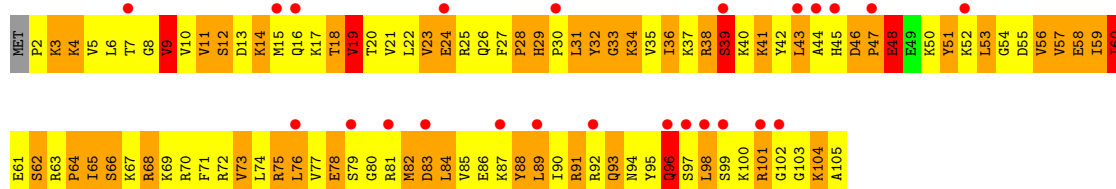
• Molecule 50: 30S ribosomal protein S15



• Molecule 51: 30S ribosomal protein S16

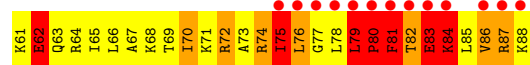
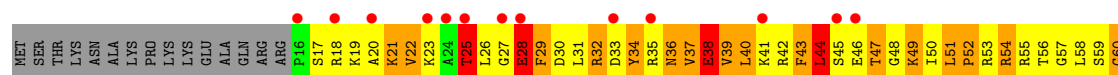


• Molecule 52: 30S ribosomal protein S17

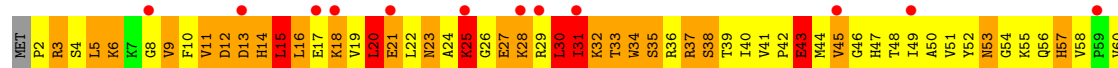
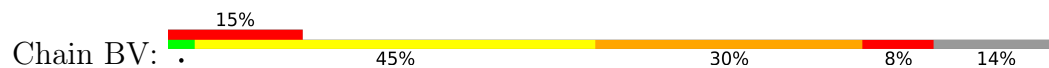


• Molecule 53: 30S ribosomal protein S18

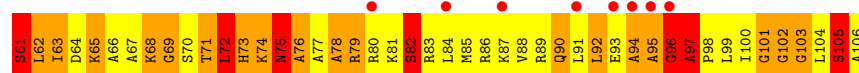
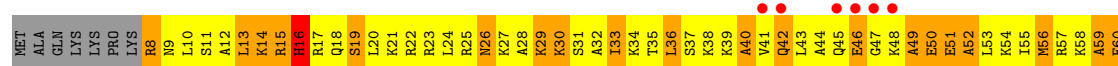




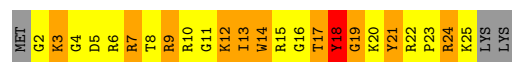
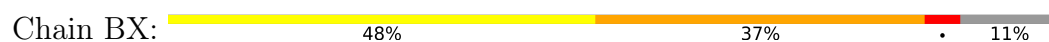
• Molecule 54: 30S ribosomal protein S19



• Molecule 55: 30S ribosomal protein S20



• Molecule 56: 30S ribosomal protein Thx



4 Data and refinement statistics

Property	Value	Source
Space group	I 4 2 2	Depositor
Cell constants a, b, c, α , β , γ	508.64Å 508.64Å 806.25Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	300.00 – 5.50 300.00 – 5.50	Depositor EDS
% Data completeness (in resolution range)	94.6 (300.00-5.50) 97.3 (300.00-5.50)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.17 (at 5.42Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.307 , 0.356 0.283 , 0.327	Depositor DCC
R_{free} test set	7724 reflections (4.56%)	wwPDB-VP
Wilson B-factor (Å ²)	206.2	Xtriage
Anisotropy	0.054	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.18 , 113.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.52$, $\langle L^2 \rangle = 0.36$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	148539	wwPDB-VP
Average B, all atoms (Å ²)	338.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.74% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

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	AB	0.66	0/2954	1.06	8/4606 (0.2%)
2	AA	0.78	30/69267 (0.0%)	1.22	747/108130 (0.7%)
3	AC	0.91	2/1715 (0.1%)	1.46	32/2310 (1.4%)
4	AD	1.48	16/1329 (1.2%)	2.24	84/1787 (4.7%)
5	AE	1.40	11/1542 (0.7%)	2.03	79/2084 (3.8%)
6	AF	1.13	4/1446 (0.3%)	1.97	68/1960 (3.5%)
7	AG	1.10	2/972 (0.2%)	1.83	30/1307 (2.3%)
8	AH	1.05	2/1272 (0.2%)	1.71	38/1721 (2.2%)
9	AI	0.72	2/950 (0.2%)	1.17	8/1275 (0.6%)
9	AJ	0.61	0/950	1.07	6/1275 (0.5%)
10	AK	1.03	0/1157	1.78	40/1547 (2.6%)
11	AL	0.71	0/1015	1.42	24/1366 (1.8%)
12	AM	1.36	4/928 (0.4%)	1.74	27/1248 (2.2%)
13	AN	1.41	4/946 (0.4%)	1.97	36/1269 (2.8%)
14	AO	1.01	0/643	1.98	30/870 (3.4%)
15	AP	1.46	9/1109 (0.8%)	2.12	51/1499 (3.4%)
16	AQ	1.00	0/880	1.68	25/1189 (2.1%)
17	AR	1.85	8/413 (1.9%)	2.98	47/557 (8.4%)
18	AS	1.15	3/869 (0.3%)	1.77	20/1166 (1.7%)
19	AT	1.02	1/609 (0.2%)	1.56	10/823 (1.2%)
20	AU	0.64	0/887	1.46	19/1195 (1.6%)
21	AV	1.02	3/1385 (0.2%)	1.62	34/1883 (1.8%)
22	AW	0.99	0/497	1.45	10/668 (1.5%)
23	AX	1.11	1/482 (0.2%)	1.73	15/646 (2.3%)
24	A0	1.20	0/867	1.72	22/1162 (1.9%)
25	A1	1.40	3/994 (0.3%)	1.85	26/1323 (2.0%)
26	A2	0.96	0/797	1.61	16/1061 (1.5%)
27	A3	0.99	1/649 (0.2%)	1.58	23/860 (2.7%)
28	A4	1.33	5/620 (0.8%)	1.69	17/831 (2.0%)
29	A5	1.06	1/469 (0.2%)	1.98	18/629 (2.9%)
30	A6	1.25	3/438 (0.7%)	1.91	13/583 (2.2%)
31	A7	1.09	1/387 (0.3%)	1.31	3/509 (0.6%)
32	A8	1.23	2/503 (0.4%)	2.15	22/657 (3.3%)
33	A9	1.66	5/286 (1.7%)	2.05	12/375 (3.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
34	BA	0.71	6/36438 (0.0%)	1.12	259/56869 (0.5%)
35	BB	1.44	17/1818 (0.9%)	2.13	128/2831 (4.5%)
35	BC	0.73	0/1818	1.13	12/2831 (0.4%)
36	B1	0.61	3/1571 (0.2%)	0.89	6/2445 (0.2%)
37	BE	1.02	2/1935 (0.1%)	1.53	40/2609 (1.5%)
38	BF	0.85	0/1636	1.47	32/2205 (1.5%)
39	BG	1.11	5/1733 (0.3%)	1.54	37/2318 (1.6%)
40	BH	1.20	4/1162 (0.3%)	1.66	30/1564 (1.9%)
41	BI	1.03	2/856 (0.2%)	1.48	18/1154 (1.6%)
42	BJ	0.91	1/1276 (0.1%)	1.38	19/1709 (1.1%)
43	BK	1.09	0/1136	1.57	24/1527 (1.6%)
44	BL	0.73	0/1029	1.23	8/1378 (0.6%)
45	BM	0.85	1/807 (0.1%)	1.41	15/1085 (1.4%)
46	BN	0.98	1/900 (0.1%)	1.50	21/1213 (1.7%)
47	BO	1.07	1/986 (0.1%)	1.79	38/1320 (2.9%)
48	BP	0.80	1/1008 (0.1%)	1.42	14/1347 (1.0%)
49	BQ	1.07	4/501 (0.8%)	1.40	8/664 (1.2%)
50	BR	1.04	0/745	1.44	9/992 (0.9%)
51	BS	1.07	1/716 (0.1%)	1.58	20/963 (2.1%)
52	BT	1.13	1/870 (0.1%)	1.51	16/1159 (1.4%)
53	BU	1.04	0/603	1.65	17/799 (2.1%)
54	BV	0.80	0/661	1.33	5/890 (0.6%)
55	BW	1.16	1/764 (0.1%)	1.42	11/1006 (1.1%)
56	BX	0.60	0/212	1.15	1/277 (0.4%)
All	All	0.88	174/161408 (0.1%)	1.34	2448/241526 (1.0%)

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	AB	0	14
2	AA	0	527
4	AD	0	1
5	AE	0	1
6	AF	0	1
7	AG	0	2
12	AM	0	2
13	AN	0	2
14	AO	0	2
16	AQ	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
23	AX	0	1
25	A1	0	3
26	A2	0	1
28	A4	0	1
30	A6	0	1
34	BA	0	220
35	BB	0	35
35	BC	0	12
36	B1	0	4
38	BF	0	1
39	BG	0	1
41	BI	0	1
43	BK	0	1
48	BP	0	1
51	BS	0	2
All	All	0	838

All (174) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AA	142	G	C5-C6	13.87	1.70	1.42
13	AN	84	CYS	CA-C	-13.20	1.41	1.53
36	B1	48	A	C5-C6	12.35	1.65	1.41
35	BB	36	A	C2'-C1'	11.92	1.71	1.53
17	AR	12	ASP	CA-C	11.80	1.67	1.52
21	AV	33	ALA	CA-CB	-11.26	1.44	1.54
2	AA	983	A	C3'-O3'	10.69	1.58	1.42
4	AD	234	HIS	CA-C	10.54	1.68	1.53
4	AD	205	VAL	CA-CB	10.46	1.68	1.54
39	BG	12	CYS	CA-CB	10.05	1.70	1.53
35	BB	36	A	O3'-P	-9.37	1.47	1.61
35	BB	37	G	C2-N2	9.17	1.52	1.34
33	A9	27	CYS	CA-C	8.91	1.62	1.53
6	AF	54	LEU	CA-C	8.84	1.65	1.52
4	AD	83	ASP	C-O	8.80	1.34	1.24
2	AA	974(A)	C	C1'-N1	8.43	1.60	1.47
17	AR	11	THR	C-O	8.27	1.34	1.23
42	BJ	156	TRP	NE1-CE2	-8.25	1.28	1.37
51	BS	4	ILE	CA-CB	-8.18	1.43	1.54
13	AN	35	ILE	CA-CB	-8.11	1.43	1.54
39	BG	31	CYS	CA-C	-8.05	1.44	1.53
34	BA	1541	U	C4-C5	7.75	1.59	1.43

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	AP	116	HIS	CA-CB	7.72	1.62	1.52
13	AN	84	CYS	CA-CB	-7.69	1.47	1.54
33	A9	11	CYS	CB-SG	7.68	2.06	1.81
2	AA	1668	A	C3'-O3'	7.67	1.53	1.42
33	A9	7	VAL	CA-CB	7.64	1.63	1.54
35	BB	40	C	N1-C2	7.61	1.55	1.40
5	AE	72	VAL	CA-CB	-7.41	1.45	1.54
25	A1	80	ILE	CA-CB	7.33	1.62	1.54
34	BA	1541	U	C5-C6	7.26	1.48	1.34
15	AP	19	TYR	CA-C	7.12	1.59	1.52
15	AP	97	ASP	CA-C	7.00	1.62	1.52
4	AD	191	VAL	CA-C	-7.00	1.43	1.52
4	AD	61	TYR	CA-C	6.93	1.62	1.52
2	AA	2195	C	C3'-O3'	6.92	1.52	1.42
36	B1	48	A	C2-N3	6.88	1.47	1.33
2	AA	142	G	C2-N2	6.87	1.48	1.34
15	AP	49	VAL	CA-C	-6.84	1.44	1.52
23	AX	58	VAL	CA-CB	6.82	1.61	1.53
2	AA	791	C	O3'-P	-6.81	1.50	1.61
2	AA	1083	U	C3'-O3'	6.80	1.52	1.42
35	BB	39	U	C5'-C4'	-6.68	1.41	1.51
2	AA	142	G	C2-N3	6.67	1.46	1.32
18	AS	35	ILE	CA-CB	6.67	1.62	1.54
2	AA	137	C	C1'-N1	6.64	1.58	1.48
2	AA	984	A	O5'-C5'	6.64	1.52	1.42
35	BB	19	G	O5'-C5'	6.63	1.52	1.42
4	AD	206	LYS	CA-C	6.62	1.61	1.52
52	BT	59	ILE	CA-C	-6.58	1.45	1.52
2	AA	1626	G	C5'-C4'	6.56	1.61	1.51
37	BE	214	ILE	CA-CB	-6.54	1.47	1.54
4	AD	214	MET	CG-SD	6.51	1.97	1.80
4	AD	234	HIS	CA-CB	6.47	1.62	1.53
12	AM	6	PHE	CA-C	6.47	1.61	1.52
3	AC	179	SER	N-CA	-6.46	1.37	1.46
28	A4	72	LYS	CA-C	6.46	1.60	1.53
36	B1	48	A	N1-C2	6.41	1.47	1.34
2	AA	983	A	O3'-P	6.40	1.70	1.61
2	AA	1083	U	O3'-P	6.40	1.70	1.61
35	BB	34	G	N9-C4	-6.36	1.25	1.38
9	AI	37	VAL	N-CA	6.31	1.54	1.46
35	BB	37	G	C6-O6	-6.29	1.11	1.24
49	BQ	24	CYS	N-CA	6.28	1.54	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
40	BH	115	VAL	CA-CB	-6.26	1.46	1.54
5	AE	223	LYS	CA-C	6.23	1.61	1.52
8	AH	17	THR	CA-CB	6.22	1.61	1.53
49	BQ	39	LEU	CA-C	6.21	1.60	1.52
34	BA	579	G	C3'-O3'	6.19	1.51	1.42
15	AP	152	SER	CA-C	6.17	1.58	1.52
5	AE	315	VAL	CA-CB	6.16	1.62	1.54
35	BB	5	A	C5'-C4'	6.12	1.60	1.51
4	AD	82	TYR	CB-CG	6.09	1.65	1.51
4	AD	91	ALA	CA-C	-6.09	1.45	1.52
34	BA	579	G	O3'-P	6.09	1.70	1.61
4	AD	83	ASP	CA-C	6.06	1.59	1.52
2	AA	969	U	C3'-O3'	6.06	1.51	1.42
49	BQ	24	CYS	CA-CB	6.02	1.63	1.53
2	AA	775	G	C3'-O3'	6.01	1.51	1.42
9	AI	37	VAL	CA-C	6.01	1.60	1.52
5	AE	76	PRO	CA-C	5.95	1.57	1.52
28	A4	47	GLU	CA-C	5.92	1.59	1.52
19	AT	47	VAL	CA-CB	-5.90	1.46	1.54
2	AA	137	C	C4-N4	5.89	1.45	1.33
6	AF	153	VAL	CA-CB	5.89	1.60	1.54
32	A8	9	MET	CG-SD	5.86	1.95	1.80
15	AP	152	SER	C-O	5.85	1.32	1.24
45	BM	49	VAL	CA-CB	5.83	1.62	1.54
5	AE	252	GLN	CA-C	-5.83	1.45	1.53
30	A6	23	THR	CA-C	5.81	1.59	1.52
28	A4	21	VAL	CA-CB	5.79	1.62	1.54
30	A6	24	THR	CA-CB	5.78	1.61	1.53
39	BG	9	CYS	CA-CB	5.74	1.63	1.53
17	AR	35	LYS	C-O	5.73	1.31	1.24
5	AE	220	GLN	CB-CG	5.72	1.69	1.52
12	AM	36	VAL	CA-CB	5.71	1.61	1.54
2	AA	984	A	C5'-C4'	5.70	1.59	1.51
35	BB	35	A	C2'-C1'	5.66	1.61	1.53
2	AA	974(A)	C	O3'-P	5.65	1.69	1.61
41	BI	67	MET	SD-CE	-5.65	1.65	1.79
35	BB	24	G	C2-N2	-5.63	1.23	1.34
2	AA	1668	A	O3'-P	5.63	1.69	1.61
32	A8	6	THR	CA-CB	5.62	1.61	1.52
17	AR	20	MET	CA-C	5.58	1.59	1.52
35	BB	52	U	O5'-C5'	-5.57	1.34	1.42
21	AV	123	VAL	CA-CB	-5.57	1.46	1.54

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	AV	9	THR	CA-CB	5.55	1.62	1.53
33	A9	11	CYS	C-O	-5.52	1.17	1.23
39	BG	146	ILE	CA-CB	-5.52	1.47	1.54
12	AM	96	GLU	N-CA	-5.51	1.39	1.46
28	A4	69	ARG	CA-C	5.50	1.60	1.52
17	AR	54	THR	CA-CB	5.48	1.63	1.53
34	BA	1541	U	C2-N3	5.48	1.48	1.37
17	AR	33	SER	CA-C	5.45	1.59	1.52
2	AA	137	C	C5-C6	5.45	1.45	1.34
4	AD	232	VAL	CA-CB	-5.44	1.46	1.54
35	BB	34	G	C5-C4	5.40	1.49	1.38
28	A4	71	SER	CA-C	5.40	1.60	1.52
35	BB	71	G	C1'-N9	-5.38	1.39	1.48
8	AH	44	VAL	CA-CB	5.36	1.60	1.54
31	A7	8	ASN	CA-C	-5.36	1.46	1.53
25	A1	89	ASP	CA-C	5.35	1.58	1.52
47	BO	25	PRO	CA-C	-5.35	1.48	1.53
7	AG	53	LYS	C-O	5.32	1.30	1.23
5	AE	271	ILE	CA-CB	5.31	1.61	1.54
5	AE	95	PRO	CA-C	5.29	1.57	1.52
13	AN	21	VAL	CA-CB	5.28	1.61	1.54
2	AA	1625	C	C3'-O3'	5.27	1.50	1.42
4	AD	139	LEU	C-O	-5.26	1.17	1.24
35	BB	41	U	P-OP2	-5.25	1.38	1.49
5	AE	219	VAL	CA-C	5.23	1.59	1.52
2	AA	2494	G	C5'-C4'	5.22	1.59	1.51
41	BI	7	ASN	CA-C	-5.22	1.46	1.52
2	AA	2195	C	O5'-C5'	5.22	1.50	1.42
6	AF	213	ALA	CA-CB	-5.22	1.45	1.53
4	AD	191	VAL	CA-CB	-5.21	1.47	1.54
34	BA	810	C	C1'-N1	-5.21	1.40	1.48
2	AA	983	A	C3'-C2'	5.20	1.60	1.52
37	BE	184	VAL	CA-CB	5.20	1.58	1.53
2	AA	1220	A	C3'-O3'	5.20	1.50	1.42
30	A6	50	PHE	CA-C	-5.19	1.46	1.52
2	AA	974(A)	C	C3'-O3'	5.19	1.50	1.43
39	BG	181	MET	SD-CE	-5.18	1.66	1.79
17	AR	17	THR	N-CA	5.18	1.52	1.46
17	AR	12	ASP	CB-CG	5.17	1.65	1.52
15	AP	126	VAL	CA-CB	5.17	1.61	1.54
29	A5	17	ASP	N-CA	-5.17	1.40	1.46
49	BQ	43	CYS	CA-CB	5.13	1.62	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
27	A3	70	ILE	CA-CB	-5.12	1.47	1.54
18	AS	103	ILE	CA-C	5.11	1.59	1.52
40	BH	18	ARG	CA-C	5.10	1.58	1.52
4	AD	160	SER	N-CA	-5.10	1.43	1.46
5	AE	79	ARG	CA-C	5.10	1.59	1.52
5	AE	296	VAL	CA-CB	-5.09	1.48	1.54
15	AP	73	GLN	CA-C	5.09	1.59	1.52
48	BP	102	ARG	CA-C	5.07	1.55	1.52
35	BB	41	U	O5'-C5'	5.06	1.50	1.42
4	AD	179	GLU	C-O	-5.06	1.20	1.24
40	BH	115	VAL	CA-C	-5.06	1.46	1.52
55	BW	40	ALA	CA-CB	-5.06	1.45	1.53
18	AS	17	VAL	C-O	5.05	1.29	1.24
33	A9	23	VAL	CA-CB	-5.05	1.48	1.53
12	AM	134	GLU	CA-C	5.04	1.59	1.52
40	BH	13	ILE	CA-CB	-5.04	1.47	1.54
25	A1	115	ASN	N-CA	-5.04	1.40	1.46
15	AP	86	ARG	CA-CB	5.04	1.58	1.52
2	AA	2246	G	O5'-C5'	5.03	1.50	1.42
6	AF	91	PRO	CA-C	-5.02	1.47	1.52
35	BB	34	G	C3'-C2'	5.02	1.60	1.52
46	BN	110	ASP	C-O	5.01	1.29	1.24
3	AC	179	SER	CA-C	5.01	1.59	1.52
2	AA	2494	G	O5'-C5'	5.01	1.50	1.42
7	AG	48	MET	SD-CE	-5.01	1.67	1.79
2	AA	973	A	C3'-O3'	5.00	1.49	1.42

All (2448) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	1064	G	N1-C2-N2	-19.68	57.15	116.20
17	AR	31	PHE	N-CA-C	18.38	139.13	109.72
17	AR	14	GLU	CA-C-N	18.28	142.69	119.84
17	AR	14	GLU	C-N-CA	18.28	142.69	119.84
32	A8	55	TRP	N-CA-C	-16.93	90.79	111.11
10	AK	32	LYS	N-CA-C	-16.62	92.85	110.97
16	AQ	126	GLY	N-CA-C	-16.12	96.33	113.58
7	AG	15	GLU	CA-C-N	15.95	139.77	119.84
7	AG	15	GLU	C-N-CA	15.95	139.77	119.84
17	AR	28	THR	N-CA-C	15.81	134.00	109.81
18	AS	90	ARG	N-CA-C	-15.77	90.10	111.54
30	A6	19	GLY	N-CA-C	-15.54	97.15	114.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	AV	43	PHE	N-CA-C	-15.49	92.59	111.33
14	AO	83	GLU	N-CA-C	-15.41	88.52	110.24
18	AS	98	LYS	N-CA-C	-15.31	88.92	110.50
34	BA	1064	G	N3-C2-N2	14.86	164.48	119.90
15	AP	47	GLU	N-CA-C	14.78	128.33	108.38
15	AP	152	SER	CA-C-N	14.77	138.30	119.84
15	AP	152	SER	C-N-CA	14.77	138.30	119.84
35	BB	19	G	N9-C1'-C2'	-14.72	91.92	114.00
6	AF	233	THR	N-CA-C	14.63	127.55	108.24
35	BB	36	A	OP1-P-O3'	-14.48	64.57	108.00
4	AD	232	VAL	N-CA-C	-14.25	100.15	112.12
6	AF	94	THR	N-CA-C	-13.93	93.92	111.75
2	AA	2610	C	N1-C1'-C2'	13.92	134.88	114.00
30	A6	43	VAL	N-CA-C	-13.69	92.17	111.89
26	A2	12	TYR	N-CA-C	13.60	130.98	109.50
4	AD	126	GLY	N-CA-C	-13.44	88.87	112.53
32	A8	35	GLY	N-CA-C	-13.40	96.48	112.83
5	AE	110	ARG	N-CA-C	-13.39	97.04	114.31
5	AE	109	ASP	N-CA-C	-13.25	94.54	110.44
30	A6	29	ARG	N-CA-C	-13.16	95.32	111.11
17	AR	22	VAL	N-CA-C	13.14	124.57	108.53
2	AA	974(A)	C	N1-C1'-C2'	13.03	133.55	114.00
13	AN	81	GLU	N-CA-C	12.97	124.92	108.19
5	AE	192	ILE	N-CA-C	-12.95	94.87	111.05
4	AD	174	ARG	N-CA-C	-12.91	89.49	109.25
4	AD	233	ASP	N-CA-C	12.91	138.30	110.80
6	AF	224	ALA	N-CA-C	-12.85	95.59	113.45
15	AP	20	ILE	CB-CA-C	-12.79	90.31	111.29
25	A1	102	GLU	CA-C-N	12.73	135.76	119.84
25	A1	102	GLU	C-N-CA	12.73	135.76	119.84
16	AQ	34	LEU	N-CA-C	-12.70	85.64	107.99
35	BB	39	U	N1-C1'-C2'	12.64	130.96	112.00
7	AG	24	HIS	N-CA-C	12.42	122.77	108.49
4	AD	234	HIS	CA-C-N	12.41	135.35	119.84
4	AD	234	HIS	C-N-CA	12.41	135.35	119.84
7	AG	54	ALA	N-CA-C	12.39	124.58	108.34
6	AF	239	ALA	N-CA-C	-12.39	97.81	111.07
5	AE	216	ARG	N-CA-C	-12.33	97.88	111.07
35	BB	76	A	C2'-C3'-O3'	-12.31	95.23	113.70
6	AF	90	HIS	CA-C-N	12.17	132.91	120.38
6	AF	90	HIS	C-N-CA	12.17	132.91	120.38
35	BB	44	A	C2'-C3'-O3'	-12.12	95.53	113.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	BF	13	GLY	N-CA-C	-12.03	96.90	115.66
6	AF	197	SER	N-CA-C	11.92	125.87	109.54
35	BB	1	G	C2'-C3'-O3'	-11.85	95.92	113.70
15	AP	52	LYS	CA-C-N	-11.80	105.09	119.84
15	AP	52	LYS	C-N-CA	-11.80	105.09	119.84
15	AP	92	VAL	N-CA-C	11.70	125.15	108.42
5	AE	199	ALA	N-CA-C	-11.68	92.73	109.31
2	AA	791	C	C1'-O4'-C4'	-11.67	98.23	109.90
29	A5	44	HIS	N-CA-C	11.64	128.86	109.06
35	BB	49	C	O4'-C4'-C3'	-11.64	92.36	104.00
15	AP	15	THR	N-CA-C	11.57	123.98	111.36
15	AP	84	ARG	N-CA-C	-11.57	90.79	109.76
4	AD	202	LYS	CA-C-N	-11.53	109.10	120.52
4	AD	202	LYS	C-N-CA	-11.53	109.10	120.52
4	AD	83	ASP	N-CA-C	11.53	127.85	109.40
25	A1	28	ARG	N-CA-C	-11.53	99.18	113.01
26	A2	99	GLN	N-CA-C	11.50	126.49	108.67
25	A1	68	GLY	N-CA-C	11.50	126.40	112.49
5	AE	248	SER	N-CA-C	-11.49	96.67	112.30
30	A6	24	THR	N-CA-C	11.45	126.77	109.25
6	AF	199	GLU	CA-C-N	11.45	134.15	119.84
6	AF	199	GLU	C-N-CA	11.45	134.15	119.84
11	AL	69	ILE	N-CA-C	11.38	125.42	108.46
2	AA	1498	C	N1-C1'-C2'	11.24	130.87	114.00
2	AA	1828	G	N9-C1'-C2'	11.23	130.85	114.00
10	AK	44	LEU	N-CA-C	-11.21	99.08	111.07
13	AN	63	VAL	N-CA-C	11.17	124.75	113.47
14	AO	106	VAL	N-CA-C	11.14	132.52	109.34
38	BF	110	ASN	N-CA-C	-11.13	100.19	113.88
35	BB	36	A	C1'-C2'-O2'	11.10	125.05	108.40
15	AP	150	ASP	N-CA-C	11.09	123.35	108.38
8	AH	151	ARG	CA-C-N	11.08	131.80	120.38
8	AH	151	ARG	C-N-CA	11.08	131.80	120.38
3	AC	128	GLY	N-CA-C	-11.07	99.24	112.64
4	AD	234	HIS	N-CA-C	11.07	126.23	110.40
35	BB	37	G	O4'-C1'-C2'	-11.06	96.54	107.60
13	AN	71	ARG	CA-C-N	10.97	133.56	119.84
13	AN	71	ARG	C-N-CA	10.97	133.56	119.84
5	AE	319	ASP	N-CA-C	-10.95	101.36	112.97
14	AO	65	ASP	N-CA-C	10.93	123.14	108.38
12	AM	134	GLU	N-CA-C	10.89	122.72	111.07
25	A1	34	ASN	N-CA-C	-10.87	98.20	112.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	A8	37	SER	N-CA-C	10.84	122.25	107.73
17	AR	5	GLU	N-CA-C	-10.81	87.77	110.80
54	BV	23	ASN	N-CA-C	-10.80	98.23	114.64
23	AX	9	VAL	N-CA-C	10.79	122.59	108.35
24	A0	105	ARG	N-CA-C	10.78	124.23	110.33
35	BB	37	G	C4'-C3'-O3'	10.75	129.13	113.00
50	BR	60	VAL	N-CA-C	-10.74	99.08	110.36
29	A5	10	LYS	N-CA-C	-10.73	95.54	110.35
31	A7	45	SER	N-CA-C	-10.72	98.25	111.11
2	AA	1992	G	C2'-C3'-O3'	10.68	125.53	109.50
2	AA	930	U	N1-C1'-C2'	10.66	129.99	114.00
24	A0	109	ALA	CA-C-N	10.66	133.17	119.84
24	A0	109	ALA	C-N-CA	10.66	133.17	119.84
4	AD	141	HIS	N-CA-C	-10.60	94.25	108.24
29	A5	23	HIS	N-CA-C	10.57	125.55	108.63
15	AP	35	ASN	N-CA-C	10.56	125.19	109.24
10	AK	118	ALA	N-CA-C	-10.55	98.44	111.11
28	A4	72	LYS	N-CA-C	10.55	121.80	108.19
6	AF	148	VAL	N-CA-C	10.54	122.19	112.29
9	AI	35	ALA	CA-C-N	10.52	132.99	119.84
9	AI	35	ALA	C-N-CA	10.52	132.99	119.84
20	AU	18	GLU	N-CA-C	-10.51	99.82	111.07
34	BA	372	C	C2'-C3'-O3'	10.50	125.25	109.50
4	AD	216	ALA	CA-C-N	-10.44	106.79	119.84
4	AD	216	ALA	C-N-CA	-10.44	106.79	119.84
47	BO	29	GLY	N-CA-C	-10.42	101.66	115.21
35	BB	56	C	N1-C1'-C2'	-10.40	96.41	112.00
34	BA	753	A	C2'-C3'-O3'	-10.34	93.99	109.50
52	BT	32	TYR	N-CA-C	10.34	122.84	110.44
21	AV	148	THR	N-CA-C	10.28	121.45	108.19
14	AO	82	ALA	N-CA-C	-10.28	88.91	110.80
25	A1	89	ASP	N-CA-C	10.27	124.88	107.93
52	BT	84	LEU	N-CA-C	-10.25	99.80	110.97
21	AV	96	VAL	CA-C-N	-10.25	107.03	119.84
21	AV	96	VAL	C-N-CA	-10.25	107.03	119.84
6	AF	65	ARG	N-CA-C	10.24	125.57	113.18
6	AF	42	ARG	N-CA-C	10.24	122.20	111.14
4	AD	231	ALA	N-CA-C	10.22	122.33	108.23
5	AE	253	GLN	N-CA-C	-10.21	94.44	109.15
4	AD	155	ARG	N-CA-C	-10.18	92.80	109.40
10	AK	96	LYS	N-CA-C	-10.13	98.67	111.02
32	A8	6	THR	N-CA-C	-10.12	90.16	108.58

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	AP	31	PHE	N-CA-C	10.11	126.31	113.88
20	AU	16	LEU	N-CA-C	-10.10	99.11	111.33
48	BP	104	ARG	N-CA-C	-10.08	99.84	111.03
4	AD	182	MET	N-CA-C	10.06	125.73	110.14
38	BF	20	SER	N-CA-C	-10.05	96.33	110.50
37	BE	130	ARG	CA-C-N	10.04	132.39	119.84
37	BE	130	ARG	C-N-CA	10.04	132.39	119.84
2	AA	774	A	C2'-C3'-O3'	10.01	124.51	109.50
4	AD	142	ASN	N-CA-C	-10.00	99.66	113.56
13	AN	58	VAL	N-CA-C	10.00	123.16	108.65
41	BI	64	GLN	N-CA-C	-10.00	93.95	109.25
2	AA	1786	A	N9-C1'-C2'	9.96	126.94	112.00
43	BK	19	VAL	N-CA-C	-9.95	102.72	112.17
41	BI	53	ALA	N-CA-C	-9.94	100.45	112.58
24	A0	82	GLU	N-CA-C	9.92	121.78	110.97
51	BS	3	LYS	N-CA-C	9.87	120.88	108.45
48	BP	87	TYR	N-CA-C	9.85	121.71	110.97
2	AA	1265	A	C2'-C3'-O3'	9.85	124.27	109.50
37	BE	214	ILE	N-CA-C	9.84	119.85	110.30
39	BG	10	ARG	N-CA-C	-9.83	99.84	112.23
35	BB	39	U	C2'-C3'-O3'	9.83	128.44	113.70
5	AE	236	GLY	N-CA-C	9.82	125.33	112.77
3	AC	70	LYS	N-CA-C	-9.79	101.50	113.15
40	BH	76	ILE	CA-C-N	9.77	132.05	119.84
40	BH	76	ILE	C-N-CA	9.77	132.05	119.84
35	BC	16	U	C2'-C3'-O3'	9.77	128.35	113.70
27	A3	3	HIS	N-CA-C	9.75	122.20	108.74
45	BM	40	LEU	CA-C-N	9.75	132.03	119.84
45	BM	40	LEU	C-N-CA	9.75	132.03	119.84
2	AA	1084	A	O5'-P-OP2	-9.74	78.79	108.00
13	AN	76	TYR	N-CA-C	9.73	125.49	109.24
2	AA	984	A	C5'-C4'-C3'	9.71	130.56	116.00
2	AA	1940	U	C2'-C3'-O3'	-9.69	99.16	113.70
35	BB	26	G	C3'-C2'-O2'	9.69	125.24	110.70
6	AF	80	VAL	CA-C-N	9.67	130.05	119.90
6	AF	80	VAL	C-N-CA	9.67	130.05	119.90
35	BB	20	G	C5'-C4'-O4'	-9.67	95.30	109.80
19	AT	44	GLN	N-CA-C	9.66	121.57	111.14
23	AX	8	LEU	N-CA-C	9.65	123.78	109.59
34	BA	1541	U	C4'-C3'-O3'	-9.63	98.55	113.00
8	AH	65	GLY	N-CA-C	-9.63	101.18	112.73
47	BO	76	ASN	N-CA-C	-9.61	90.33	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	AM	12	VAL	N-CA-C	9.61	123.64	108.85
50	BR	17	ARG	N-CA-C	-9.57	99.92	111.69
11	AL	65	SER	N-CA-C	9.56	122.67	108.14
19	AT	26	PHE	N-CA-C	9.54	120.47	108.45
2	AA	2490	G	C1'-C2'-O2'	-9.53	97.51	111.80
28	A4	47	GLU	N-CA-C	9.53	123.95	108.99
35	BB	39	U	C5'-C4'-C3'	-9.52	101.72	116.00
28	A4	45	GLY	N-CA-C	9.50	130.06	111.34
37	BE	117	GLU	N-CA-C	-9.49	99.84	111.33
2	AA	808	G	C4'-C3'-O3'	-9.46	98.81	113.00
2	AA	1971	A	C2'-C3'-O3'	-9.46	99.52	113.70
35	BB	36	A	P-O3'-C3'	9.45	134.37	120.20
10	AK	8	ASP	N-CA-C	9.44	130.92	110.80
17	AR	55	ALA	N-CA-C	-9.43	101.69	113.01
47	BO	63	GLY	N-CA-C	-9.43	102.13	115.43
46	BN	93	GLN	N-CA-C	-9.41	99.70	111.75
35	BB	52	U	C4'-C3'-O3'	-9.38	98.93	113.00
2	AA	1934	C	C2'-C3'-O3'	-9.37	99.64	113.70
4	AD	131	LEU	N-CA-C	-9.37	101.84	113.18
5	AE	250	VAL	CA-C-N	-9.37	108.13	119.84
5	AE	250	VAL	C-N-CA	-9.37	108.13	119.84
35	BB	37	G	C5'-C4'-O4'	-9.37	95.75	109.80
8	AH	50	THR	N-CA-C	9.35	121.06	107.88
47	BO	59	ARG	N-CA-C	-9.33	93.52	108.73
4	AD	194	VAL	N-CA-C	-9.33	89.94	109.34
14	AO	94	ARG	N-CA-C	9.32	125.18	110.17
5	AE	42	ALA	N-CA-C	9.32	122.85	108.96
2	AA	1784	A	C2'-C3'-O3'	-9.32	99.73	113.70
17	AR	38	ASN	CA-C-N	-9.31	108.34	120.44
17	AR	38	ASN	C-N-CA	-9.31	108.34	120.44
14	AO	74	THR	N-CA-C	-9.30	96.03	111.37
35	BB	5	A	C2'-C3'-O3'	-9.28	99.78	113.70
26	A2	63	HIS	N-CA-C	-9.28	96.27	110.10
34	BA	1004	A	C2'-C3'-O3'	9.27	123.40	109.50
5	AE	225	LYS	N-CA-C	-9.23	91.14	110.80
34	BA	815	A	C4'-C3'-O3'	-9.22	99.17	113.00
35	BB	29	A	N9-C1'-C2'	-9.21	98.19	112.00
34	BA	727	G	N9-C1'-C2'	-9.20	98.19	112.00
41	BI	48	LEU	N-CA-C	-9.19	97.55	110.50
13	AN	32	TYR	N-CA-C	9.19	125.01	108.48
17	AR	8	TYR	N-CA-C	-9.19	99.81	112.12
40	BH	19	MET	N-CA-C	9.18	123.69	108.73

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
18	AS	12	ILE	N-CA-C	9.13	124.05	108.90
52	BT	39	SER	N-CA-C	9.10	123.72	109.07
13	AN	42	THR	N-CA-C	9.09	120.78	108.23
34	BA	813	U	C4'-C3'-O3'	-9.09	99.37	113.00
25	A1	61	TRP	N-CA-C	-9.06	101.10	110.97
47	BO	35	GLY	N-CA-C	9.05	123.91	110.42
35	BB	22	G	C3'-C2'-O2'	9.05	124.27	110.70
35	BB	18	G	C2'-C3'-O3'	-9.04	100.15	113.70
6	AF	53	GLY	N-CA-C	9.03	125.07	113.24
2	AA	2110	G	C2'-C3'-O3'	9.01	123.02	109.50
44	BL	63	ILE	N-CA-C	9.01	120.24	108.35
5	AE	44	TYR	N-CA-C	9.00	121.96	109.18
5	AE	63	GLU	N-CA-C	9.00	129.96	110.80
13	AN	88	ARG	N-CA-C	-8.99	94.58	109.24
2	AA	2848	G	N9-C1'-C2'	8.99	127.49	114.00
51	BS	40	ASP	CA-C-N	8.98	129.74	120.04
51	BS	40	ASP	C-N-CA	8.98	129.74	120.04
2	AA	1324	G	C2'-C3'-O3'	8.98	122.97	109.50
4	AD	204	PHE	N-CA-C	-8.97	99.83	110.41
2	AA	2319	G	C2'-C3'-O3'	-8.95	100.27	113.70
4	AD	214	MET	N-CA-C	-8.95	91.73	110.80
29	A5	24	ALA	N-CA-C	8.95	123.48	109.07
34	BA	793	U	N1-C1'-C2'	8.95	127.42	114.00
42	BJ	69	VAL	N-CA-C	8.95	119.75	110.72
47	BO	44	THR	CA-C-N	8.93	128.87	120.03
47	BO	44	THR	C-N-CA	8.93	128.87	120.03
2	AA	2894	G	N9-C1'-C2'	8.93	125.39	112.00
6	AF	7	ASP	N-CA-C	-8.93	99.03	111.52
17	AR	14	GLU	N-CA-C	8.93	129.53	109.81
2	AA	1559	G	N9-C1'-C2'	-8.91	98.63	112.00
2	AA	1653	G	C4'-C3'-O3'	-8.90	99.65	113.00
2	AA	776	G	C2'-C3'-O3'	8.87	122.81	109.50
21	AV	34	LEU	N-CA-C	8.87	129.70	110.80
21	AV	13	LYS	N-CA-C	-8.85	101.63	111.28
53	BU	47	THR	N-CA-C	-8.84	101.17	113.37
43	BK	18	ARG	N-CA-C	8.84	123.06	111.75
2	AA	1240	U	N1-C1'-C2'	8.82	125.23	112.00
20	AU	83	ASP	N-CA-C	-8.81	101.68	111.28
6	AF	242	GLU	N-CA-C	-8.81	100.54	111.11
39	BG	38	TYR	N-CA-C	8.80	120.25	110.13
47	BO	12	ARG	N-CA-C	8.79	121.75	111.02
18	AS	4	LYS	N-CA-C	8.77	121.23	108.86

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	AF	91	PRO	N-CA-C	8.77	121.39	110.70
33	A9	30	VAL	N-CA-C	-8.75	100.64	110.62
38	BF	86	VAL	N-CA-C	-8.75	101.63	113.00
32	A8	11	LYS	N-CA-C	8.72	120.71	111.03
24	A0	47	PHE	N-CA-C	8.71	122.03	111.40
24	A0	48	VAL	N-CA-C	-8.71	99.15	111.17
3	AC	33	ALA	N-CA-C	8.70	124.56	112.72
52	BT	9	VAL	N-CA-C	8.65	122.17	108.85
2	AA	1968	G	C2'-C3'-O3'	-8.64	100.74	113.70
35	BB	5	A	C5'-C4'-C3'	8.64	128.96	116.00
27	A3	44	LYS	N-CA-C	8.63	122.69	108.96
51	BS	20	VAL	N-CA-C	8.63	121.16	108.65
40	BH	8	GLU	N-CA-C	8.62	123.78	107.75
23	AX	15	TYR	CA-C-N	8.61	130.60	119.84
23	AX	15	TYR	C-N-CA	8.61	130.60	119.84
5	AE	246	VAL	N-CA-C	8.61	120.06	108.27
24	A0	31	HIS	N-CA-C	8.61	123.91	113.41
35	BB	41	U	P-O5'-C5'	-8.60	108.00	120.90
13	AN	65	THR	N-CA-C	8.60	122.53	108.26
2	AA	1241	A	N9-C1'-C2'	8.58	126.86	114.00
2	AA	1253	A	N9-C1'-C2'	8.57	124.86	112.00
33	A9	8	LYS	N-CA-C	8.56	125.43	109.24
2	AA	386	G	N9-C1'-C2'	8.56	126.83	114.00
4	AD	82	TYR	N-CA-C	-8.55	97.36	110.10
2	AA	984	A	C2'-C3'-O3'	-8.55	100.88	113.70
42	BJ	111	ARG	CA-C-N	8.54	130.52	119.84
42	BJ	111	ARG	C-N-CA	8.54	130.52	119.84
2	AA	1667	G	C2'-C3'-O3'	8.51	122.27	109.50
4	AD	146	LYS	CA-C-N	8.51	130.47	119.84
4	AD	146	LYS	C-N-CA	8.51	130.47	119.84
34	BA	576	G	N9-C1'-C2'	8.50	126.75	114.00
21	AV	42	ALA	N-CA-C	8.49	124.25	112.45
2	AA	142	G	C2'-C3'-O3'	-8.48	100.98	113.70
5	AE	291	GLY	N-CA-C	-8.47	95.07	112.34
35	BB	19	G	C2'-C3'-O3'	-8.46	96.81	109.50
2	AA	2266	A	N9-C1'-C2'	8.46	124.69	112.00
27	A3	38	VAL	N-CA-C	8.46	126.94	109.34
10	AK	107	GLY	N-CA-C	8.45	124.74	114.69
48	BP	25	ILE	N-CA-C	8.43	120.41	108.36
34	BA	109	A	C2'-C3'-O3'	-8.42	101.07	113.70
24	A0	44	LEU	N-CA-C	-8.42	100.97	111.75
7	AG	67	ASP	CA-C-N	-8.41	110.22	119.98

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	AG	67	ASP	C-N-CA	-8.41	110.22	119.98
6	AF	82	GLN	N-CA-C	8.41	128.72	110.80
2	AA	331	A	C2'-C3'-O3'	8.41	122.11	109.50
2	AA	1673	U	C5'-C4'-C3'	8.39	128.59	116.00
10	AK	127	THR	N-CA-C	-8.39	94.40	108.75
47	BO	25	PRO	N-CA-C	-8.39	100.18	112.26
13	AN	77	ILE	N-CA-C	8.39	120.20	108.12
2	AA	685	A	C4'-C3'-O3'	-8.38	100.42	113.00
8	AH	42	ILE	N-CA-C	8.38	120.94	108.54
3	AC	8	ARG	N-CA-C	-8.37	102.11	111.82
29	A5	40	LYS	N-CA-C	8.37	121.88	109.24
39	BG	12	CYS	N-CA-C	-8.36	92.99	110.80
2	AA	1828	G	C2'-C3'-O3'	8.35	122.02	109.50
22	AW	10	ASP	N-CA-C	-8.35	102.14	111.07
42	BJ	50	ILE	N-CA-C	-8.35	101.55	110.23
34	BA	818	G	N9-C1'-C2'	8.34	126.51	114.00
2	AA	2615	U	C2'-C3'-O3'	-8.34	101.19	113.70
15	AP	136	TRP	N-CA-C	-8.33	100.85	111.02
27	A3	35	ASN	N-CA-C	8.33	123.22	109.06
2	AA	2496	C	C2'-C3'-O3'	-8.32	101.22	113.70
34	BA	792	A	N9-C1'-C2'	8.31	126.47	114.00
17	AR	45	GLU	N-CA-C	8.30	122.05	108.52
2	AA	442	G	N9-C1'-C2'	8.29	126.44	114.00
39	BG	185	PHE	N-CA-C	-8.29	98.01	110.28
28	A4	31	ILE	N-CA-C	8.29	120.52	108.58
2	AA	1206	G	N9-C1'-C2'	-8.29	99.57	112.00
37	BE	231	GLU	CA-C-N	8.28	130.18	119.84
37	BE	231	GLU	C-N-CA	8.28	130.18	119.84
17	AR	44	ARG	N-CA-C	8.27	128.41	110.80
2	AA	2032	G	N9-C1'-C2'	8.27	126.40	114.00
34	BA	243	A	C2'-C3'-O3'	8.27	121.90	109.50
7	AG	37	ALA	N-CA-C	-8.27	101.33	111.33
37	BE	113	HIS	N-CA-C	-8.27	101.33	111.33
5	AE	318	ASN	N-CA-C	-8.25	102.80	113.12
8	AH	41	THR	N-CA-C	8.23	123.26	108.69
11	AL	22	PRO	N-CA-C	8.23	120.75	110.70
2	AA	2575	C	C2'-C3'-O3'	-8.23	101.36	113.70
14	AO	133	VAL	N-CA-C	-8.22	101.68	110.23
39	BG	20	TYR	N-CA-C	-8.22	97.89	111.37
34	BA	1506	U	C2'-C3'-O3'	-8.21	97.19	109.50
35	BB	41	U	C5'-C4'-C3'	8.21	128.31	116.00
51	BS	16	HIS	N-CA-C	-8.21	95.54	109.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	BO	120	TYR	N-CA-C	-8.19	101.09	111.90
25	A1	81	ASN	N-CA-C	8.19	120.12	111.03
35	BB	33	U	N1-C1'-C2'	8.19	124.28	112.00
10	AK	140	THR	N-CA-C	-8.18	95.95	108.96
2	AA	1248	G	C2'-C3'-O3'	8.18	121.77	109.50
32	A8	4	MET	N-CA-C	8.17	117.89	108.49
42	BJ	156	TRP	CD2-CE2-CZ2	-8.16	114.24	122.40
4	AD	114	GLU	N-CA-C	8.16	128.17	110.80
35	BB	42	G	C5'-C4'-C3'	-8.15	103.77	116.00
22	AW	44	GLY	N-CA-C	-8.14	93.88	113.18
32	A8	14	ILE	N-CA-C	8.14	126.28	109.34
2	AA	1656	C	C5'-C4'-C3'	-8.14	103.79	116.00
6	AF	46	TYR	N-CA-C	8.14	121.53	109.24
41	BI	67	MET	CA-C-N	8.14	130.01	119.84
41	BI	67	MET	C-N-CA	8.14	130.01	119.84
38	BF	76	VAL	N-CA-C	-8.14	104.81	111.81
35	BB	71	G	C1'-C2'-O2'	8.13	120.60	108.40
53	BU	79	LEU	CA-C-N	8.13	130.00	119.84
53	BU	79	LEU	C-N-CA	8.13	130.00	119.84
32	A8	40	GLU	N-CA-C	-8.12	102.38	111.14
2	AA	1670	C	C4'-C3'-O3'	-8.11	100.83	113.00
2	AA	1981	A	C2'-C3'-O3'	-8.11	101.53	113.70
2	AA	1625	C	N1-C1'-C2'	8.10	124.15	112.00
46	BN	84	VAL	N-CA-C	8.10	119.58	107.75
2	AA	2606	C	C2'-C3'-O3'	-8.10	101.56	113.70
44	BL	64	THR	N-CA-C	-8.09	96.05	109.24
2	AA	790	C	P-O3'-C3'	8.08	132.31	120.20
2	AA	125	G	N9-C1'-C2'	8.07	126.11	114.00
35	BB	34	G	C3'-C2'-O2'	8.07	122.80	110.70
32	A8	22	VAL	N-CA-C	8.05	120.91	108.44
14	AO	83	GLU	CA-C-N	-8.04	108.97	122.64
14	AO	83	GLU	C-N-CA	-8.04	108.97	122.64
13	AN	44	LYS	N-CA-C	-8.02	101.31	112.45
10	AK	124	LEU	N-CA-C	8.01	127.86	110.80
32	A8	20	GLY	N-CA-C	-7.99	102.97	115.67
2	AA	1084	A	C5'-C4'-C3'	-7.99	104.02	116.00
4	AD	72	GLY	N-CA-C	-7.99	103.87	114.25
21	AV	38	ALA	N-CA-C	-7.99	102.27	110.97
37	BE	57	PHE	N-CA-C	-7.99	102.58	111.28
2	AA	703	U	C2'-C3'-O3'	-7.98	101.73	113.70
17	AR	7	ASP	N-CA-C	-7.98	93.81	110.80
32	A8	36	LYS	N-CA-C	7.97	127.78	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	932	G	N9-C1'-C2'	7.96	123.94	112.00
17	AR	20	MET	N-CA-C	7.96	121.88	108.90
35	BC	14	A	C2'-C3'-O3'	-7.96	101.76	113.70
29	A5	38	GLY	N-CA-C	-7.94	98.58	110.42
16	AQ	94	GLU	N-CA-C	-7.94	101.33	111.02
5	AE	252	GLN	N-CA-C	-7.94	97.94	108.34
12	AM	23	ALA	N-CA-C	-7.93	102.32	110.97
10	AK	134	HIS	CA-C-N	7.93	129.75	119.84
10	AK	134	HIS	C-N-CA	7.93	129.75	119.84
6	AF	98	ARG	N-CA-C	7.93	120.92	111.33
40	BH	23	GLY	N-CA-C	7.92	122.31	110.75
2	AA	827	U	C2'-C3'-O3'	-7.91	101.84	113.70
30	A6	27	ASN	N-CA-C	7.91	120.74	108.96
13	AN	17	ARG	N-CA-C	-7.90	93.98	110.80
35	BB	38	A	C1'-C2'-O2'	-7.88	96.57	108.40
40	BH	64	ARG	N-CA-C	-7.88	100.42	110.19
5	AE	200	ASP	N-CA-C	-7.88	96.73	108.79
13	AN	67	ARG	N-CA-C	-7.88	103.24	113.17
21	AV	114	ASP	N-CA-C	7.87	121.13	109.24
13	AN	84	CYS	N-CA-C	7.87	117.54	108.49
14	AO	62	ALA	N-CA-C	7.87	120.58	108.07
5	AE	274	GLY	N-CA-C	-7.87	94.53	113.18
41	BI	25	ILE	N-CA-C	-7.87	102.05	110.23
3	AC	83	ILE	N-CA-C	-7.85	102.88	110.42
8	AH	149	ALA	N-CA-C	-7.85	102.24	112.68
37	BE	21	ARG	N-CA-C	7.85	122.10	110.48
8	AH	16	VAL	N-CA-C	7.83	117.97	106.85
35	BB	15	G	C4'-C3'-O3'	7.83	124.74	113.00
5	AE	176	HIS	N-CA-C	-7.82	102.83	112.38
38	BF	104	GLN	N-CA-C	7.82	121.17	108.34
52	BT	73	VAL	N-CA-C	-7.82	98.37	109.63
13	AN	119	PRO	N-CA-C	-7.79	103.37	113.57
34	BA	5	U	C2'-C3'-O3'	7.78	121.18	109.50
11	AL	66	PHE	N-CA-C	7.78	127.37	110.80
46	BN	107	SER	N-CA-C	7.78	119.48	108.74
52	BT	29	HIS	N-CA-C	7.78	120.93	109.50
11	AL	57	VAL	N-CA-C	-7.78	96.40	107.75
15	AP	33	MET	N-CA-C	-7.77	97.26	109.07
2	AA	2681	C	N1-C1'-C2'	7.77	123.65	112.00
2	AA	1489	U	N1-C1'-C2'	7.76	125.65	114.00
35	BB	36	A	C3'-C2'-C1'	-7.76	93.53	101.30
6	AF	81	PRO	N-CA-C	7.76	122.52	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	1329	U	C4'-C3'-O3'	-7.76	101.36	113.00
35	BB	74	C	C2'-C3'-O3'	-7.76	102.06	113.70
34	BA	1053	G	C2'-C3'-O3'	-7.76	102.06	113.70
17	AR	32	CYS	N-CA-C	7.75	127.31	110.80
3	AC	134	ARG	N-CA-C	-7.75	103.97	113.50
35	BB	37	G	C5'-C4'-C3'	-7.74	104.39	116.00
21	AV	4	THR	N-CA-C	7.73	119.76	108.86
17	AR	15	PRO	N-CA-C	7.73	128.40	112.47
2	AA	137	C	C2'-C3'-O3'	-7.73	102.10	113.70
10	AK	130	PRO	N-CA-C	-7.72	96.56	112.47
19	AT	71	ASP	N-CA-C	7.72	119.69	108.34
35	BB	40	C	C2'-C3'-O3'	7.72	125.28	113.70
23	AX	47	VAL	N-CA-C	7.72	117.78	110.53
34	BA	451	A	N9-C1'-C2'	7.71	125.57	114.00
6	AF	17	ASP	N-CA-C	7.71	122.40	109.76
2	AA	2384	G	N9-C1'-C2'	7.70	125.56	114.00
8	AH	88	LEU	CA-C-N	-7.70	113.40	122.95
8	AH	88	LEU	C-N-CA	-7.70	113.40	122.95
27	A3	24	LYS	N-CA-C	7.70	120.91	109.59
2	AA	2131	G	C4'-C3'-O3'	-7.69	101.47	113.00
33	A9	15	LYS	N-CA-C	7.68	121.98	109.76
7	AG	76	ARG	N-CA-C	-7.68	97.88	109.94
42	BJ	120	ILE	CB-CA-C	-7.68	101.87	111.70
2	AA	1804	C	C2'-C3'-O3'	-7.67	102.19	113.70
11	AL	13	LEU	CA-C-N	7.67	129.43	119.84
11	AL	13	LEU	C-N-CA	7.67	129.43	119.84
39	BG	72	GLU	N-CA-C	-7.67	102.61	110.97
14	AO	63	THR	N-CA-C	7.67	120.91	108.63
4	AD	83	ASP	CA-C-N	7.67	139.96	120.25
4	AD	83	ASP	C-N-CA	7.67	139.96	120.25
11	AL	101	THR	N-CA-C	7.67	122.14	109.95
34	BA	31	G	C2'-C3'-O3'	-7.67	102.20	113.70
14	AO	53	ARG	N-CA-C	7.66	126.74	109.81
34	BA	960	U	C2'-C3'-O3'	7.66	120.99	109.50
3	AC	69	GLY	N-CA-C	7.65	121.83	110.97
12	AM	84	ARG	N-CA-C	-7.65	102.08	111.33
16	AQ	22	GLN	N-CA-C	-7.65	102.40	112.34
34	BA	560	U	C2'-C3'-O3'	7.65	120.97	109.50
5	AE	197	GLU	N-CA-C	-7.64	97.53	108.07
8	AH	141	GLY	N-CA-C	-7.63	103.52	112.83
38	BF	141	VAL	N-CA-C	7.63	117.70	110.30
27	A3	56	ASP	N-CA-C	7.62	121.34	109.07

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	BE	70	PHE	N-CA-C	7.62	120.92	108.26
46	BN	38	ASN	CA-C-N	7.62	127.63	119.78
46	BN	38	ASN	C-N-CA	7.62	127.63	119.78
53	BU	51	LEU	CA-C-N	7.62	129.36	119.84
53	BU	51	LEU	C-N-CA	7.62	129.36	119.84
23	AX	31	LEU	N-CA-C	7.61	119.63	110.19
21	AV	8	ARG	N-CA-C	-7.61	94.60	110.80
37	BE	182	ILE	CA-C-N	7.59	129.33	119.84
37	BE	182	ILE	C-N-CA	7.59	129.33	119.84
2	AA	1187	G	N9-C1'-C2'	7.59	123.39	112.00
15	AP	72	VAL	N-CA-C	7.59	125.13	109.34
6	AF	14	GLY	N-CA-C	7.59	131.17	113.18
6	AF	153	VAL	N-CA-C	-7.58	102.34	110.23
2	AA	2756	U	N1-C1'-C2'	7.58	125.37	114.00
5	AE	293	TYR	N-CA-C	7.58	121.89	109.24
26	A2	53	LYS	N-CA-C	-7.58	98.86	111.37
34	BA	47	C	N1-C1'-C2'	7.58	125.36	114.00
15	AP	83	PHE	N-CA-C	-7.58	94.67	110.80
35	BB	41	U	O3'-P-O5'	-7.57	92.65	104.00
4	AD	92	LEU	N-CA-C	-7.56	97.74	109.76
2	AA	137	C	N1-C1'-C2'	7.55	123.32	112.00
38	BF	154	SER	N-CA-C	7.55	120.56	108.41
2	AA	387	U	N1-C1'-C2'	7.55	123.32	112.00
2	AA	786	C	N1-C1'-C2'	7.55	123.32	112.00
6	AF	54	LEU	CA-C-N	7.55	135.95	121.54
6	AF	54	LEU	C-N-CA	7.55	135.95	121.54
24	A0	77	ARG	N-CA-C	-7.54	102.99	111.14
38	BF	132	ARG	N-CA-C	-7.54	102.06	111.11
20	AU	27	LEU	N-CA-C	7.52	119.58	108.60
39	BG	157	LEU	N-CA-C	-7.52	103.02	111.14
8	AH	24	THR	N-CA-C	-7.52	97.33	109.96
55	BW	75	ASN	N-CA-C	-7.52	104.20	113.15
30	A6	14	SER	N-CA-C	7.50	120.80	109.41
27	A3	62	LEU	N-CA-C	-7.49	98.35	108.24
2	AA	2025	C	C2'-C3'-O3'	-7.49	102.47	113.70
4	AD	188	ARG	N-CA-C	7.49	120.80	109.41
17	AR	32	CYS	CA-C-N	7.48	133.80	122.65
17	AR	32	CYS	C-N-CA	7.48	133.80	122.65
35	BB	42	G	C5'-C4'-O4'	7.48	121.02	109.80
2	AA	573	G	C4'-C3'-O3'	-7.48	101.78	113.00
34	BA	47	C	C2'-C3'-O3'	7.48	120.72	109.50
14	AO	60	GLU	N-CA-C	7.47	117.87	108.45

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	A5	12	SER	N-CA-C	7.47	121.09	108.23
35	BB	35	A	N9-C1'-C2'	7.47	123.21	112.00
43	BK	80	ILE	N-CA-C	-7.47	93.80	109.34
32	A8	16	ILE	N-CA-C	7.46	119.35	108.53
1	AB	56	G	C2'-C3'-O3'	7.46	120.69	109.50
2	AA	787	U	C4'-C3'-C2'	-7.46	95.14	102.60
2	AA	575	A	N9-C1'-C2'	7.46	123.19	112.00
2	AA	1083	U	O3'-P-O5'	7.46	115.18	104.00
2	AA	2587	A	N9-C1'-C2'	7.45	123.18	112.00
18	AS	62	HIS	N-CA-C	-7.45	103.58	114.39
14	AO	121	ILE	N-CA-C	-7.45	94.33	106.32
36	B1	47	U	C2'-C3'-O3'	-7.45	102.53	113.70
35	BB	36	A	O3'-P-O5'	7.44	115.17	104.00
15	AP	48	ASN	N-CA-C	7.44	120.54	108.41
6	AF	164	ALA	N-CA-C	-7.43	102.34	111.33
21	AV	57	GLU	N-CA-C	-7.43	103.52	112.58
2	AA	84	A	N9-C1'-C2'	7.42	123.14	112.00
32	A8	17	THR	N-CA-C	-7.41	97.13	109.07
11	AL	33	VAL	N-CA-C	7.41	119.50	108.46
35	BB	20	G	N9-C1'-C2'	7.40	123.10	112.00
22	AW	38	GLY	N-CA-C	-7.40	105.11	115.32
2	AA	1800	C	O4'-C4'-C3'	-7.39	96.61	104.00
2	AA	2113	U	C2'-C3'-O3'	7.39	120.58	109.50
2	AA	2464	C	C2'-C3'-O3'	-7.39	102.62	113.70
40	BH	71	LEU	N-CA-C	7.39	119.86	110.33
34	BA	1084	G	C2'-C3'-O3'	7.39	120.58	109.50
4	AD	216	ALA	N-CA-C	7.39	126.13	109.81
47	BO	30	ALA	CA-C-N	7.38	129.06	119.84
47	BO	30	ALA	C-N-CA	7.38	129.06	119.84
55	BW	72	LEU	N-CA-C	-7.38	101.01	110.53
2	AA	74	A	C2'-C3'-O3'	7.37	120.56	109.50
2	AA	726	G	C4'-C3'-O3'	-7.37	101.95	113.00
38	BF	147	LYS	N-CA-C	-7.37	103.38	112.88
46	BN	81	ASP	N-CA-C	-7.37	99.00	110.42
3	AC	32	LEU	N-CA-C	7.36	120.75	111.69
2	AA	139	G	C2'-C3'-O3'	7.36	124.73	113.70
2	AA	983	A	N9-C1'-C2'	7.35	123.03	112.00
17	AR	42	LEU	N-CA-C	7.35	119.19	111.03
2	AA	1605	C	C5'-C4'-C3'	-7.35	104.98	116.00
34	BA	810	C	N1-C1'-C2'	-7.35	100.98	112.00
21	AV	167	THR	N-CA-C	7.34	126.44	110.80
51	BS	31	LYS	N-CA-C	-7.34	100.08	110.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	446	G	N9-C1'-C2'	7.34	125.01	114.00
6	AF	241	ALA	N-CA-C	-7.34	103.28	111.28
13	AN	24	VAL	N-CA-C	-7.34	96.58	107.51
42	BJ	156	TRP	CE2-CD2-CE3	7.33	126.14	118.80
21	AV	141	MET	N-CA-C	7.33	120.25	107.49
3	AC	180	PHE	CA-C-N	7.33	127.92	120.38
3	AC	180	PHE	C-N-CA	7.33	127.92	120.38
6	AF	160	LEU	N-CA-C	7.32	123.60	112.54
42	BJ	130	GLY	N-CA-C	-7.32	95.84	113.18
34	BA	1281	U	C2'-C3'-O3'	7.31	124.67	113.70
13	AN	30	ARG	N-CA-C	7.31	126.37	110.80
2	AA	828	U	N1-C1'-C2'	7.31	122.96	112.00
2	AA	2384	G	C2'-C3'-O3'	7.31	120.46	109.50
3	AC	125	SER	N-CA-C	7.31	122.49	113.50
12	AM	59	LYS	N-CA-C	-7.31	99.31	111.37
1	AB	12	C	N1-C1'-C2'	7.30	122.95	112.00
7	AG	137	PRO	N-CA-C	7.30	123.33	113.84
15	AP	73	GLN	N-CA-C	7.30	126.35	110.80
16	AQ	33	ARG	N-CA-C	-7.30	95.25	110.80
46	BN	112	THR	CA-C-N	7.29	128.96	119.84
46	BN	112	THR	C-N-CA	7.29	128.96	119.84
53	BU	80	PRO	N-CA-C	7.29	127.49	112.47
2	AA	1239	G	N9-C1'-C2'	7.29	122.93	112.00
35	BB	40	C	O4'-C1'-C2'	-7.28	100.33	107.60
51	BS	19	ILE	N-CA-CB	-7.28	105.00	112.06
2	AA	832	G	C5'-C4'-C3'	7.27	126.91	116.00
2	AA	2644	G	N9-C1'-C2'	-7.27	101.09	112.00
34	BA	115	G	C2'-C3'-O3'	7.27	120.41	109.50
32	A8	50	LEU	N-CA-C	7.27	119.90	110.53
52	BT	38	ARG	N-CA-C	7.26	119.95	109.14
3	AC	121	GLY	N-CA-C	-7.25	104.08	112.50
2	AA	527	C	N1-C1'-C2'	7.25	122.88	112.00
2	AA	1821	A	C4'-C3'-O3'	-7.25	102.12	113.00
29	A5	36	CYS	N-CA-C	-7.24	104.53	113.15
2	AA	199	A	N9-C1'-C2'	7.24	124.86	114.00
48	BP	79	LYS	N-CA-C	-7.24	103.33	111.07
13	AN	18	GLU	N-CA-C	7.23	120.34	108.99
2	AA	974(A)	C	C2'-C3'-O3'	7.23	120.34	109.50
2	AA	337	C	C2'-C3'-O3'	-7.22	102.86	113.70
2	AA	2277	G	C3'-C2'-O2'	7.22	121.53	110.70
6	AF	55	ARG	N-CA-C	7.22	126.19	110.80
10	AK	147	GLU	N-CA-C	-7.22	95.81	108.23

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	31	A	C3'-C2'-O2'	7.22	121.53	110.70
29	A5	4	HIS	CA-C-N	-7.22	110.82	119.84
29	A5	4	HIS	C-N-CA	-7.22	110.82	119.84
2	AA	2336	A	C4'-C3'-O3'	-7.22	102.17	113.00
52	BT	60	ILE	N-CA-C	7.22	118.21	108.11
39	BG	26	CYS	CA-CB-SG	7.21	130.99	114.40
40	BH	112	LEU	N-CA-C	-7.21	103.11	110.97
2	AA	2275	C	C2'-C3'-O3'	7.21	120.32	109.50
34	BA	1201	A	C2'-C3'-O3'	7.21	120.32	109.50
47	BO	117	ARG	N-CA-C	7.21	120.56	111.69
4	AD	172	ILE	N-CA-C	7.21	119.21	108.54
2	AA	997	G	C3'-C2'-O2'	7.20	121.51	110.70
2	AA	2581	G	N9-C1'-C2'	7.20	122.80	112.00
27	A3	15	ASP	N-CA-C	7.20	119.27	110.41
30	A6	22	TYR	N-CA-C	7.20	118.17	108.23
28	A4	67	TYR	CB-CA-C	-7.20	105.95	116.53
34	BA	993	G	N9-C1'-C2'	7.20	122.79	112.00
2	AA	2125	G	N9-C1'-C2'	7.19	124.78	114.00
2	AA	864	G	N9-C1'-C2'	7.19	122.78	112.00
2	AA	1991	U	C4'-C3'-O3'	7.18	123.77	113.00
47	BO	70	ILE	N-CA-C	-7.17	99.73	107.77
34	BA	351	G	C2'-C3'-O3'	-7.17	102.94	113.70
8	AH	45	GLU	N-CA-C	7.17	123.37	108.53
44	BL	50	LEU	N-CA-C	-7.17	103.40	111.07
2	AA	1955	U	N1-C1'-C2'	7.17	122.75	112.00
2	AA	1248	G	N9-C1'-C2'	7.16	124.74	114.00
3	AC	46	LYS	N-CA-C	7.16	120.39	108.73
34	BA	717	C	C4'-C3'-O3'	-7.15	102.27	113.00
34	BA	1413	A	C2'-C3'-O3'	-7.15	102.97	113.70
17	AR	23	HIS	N-CA-C	7.15	120.32	109.23
38	BF	138	VAL	N-CA-C	-7.15	103.56	110.42
4	AD	191	VAL	CB-CA-C	-7.14	99.57	111.29
5	AE	45	LYS	N-CA-C	7.14	120.52	108.23
29	A5	19	ARG	N-CA-C	-7.14	99.66	111.37
34	BA	1049	U	C2'-C3'-O3'	7.14	120.22	109.50
2	AA	2336	A	N9-C1'-C2'	7.14	122.71	112.00
34	BA	173	U	P-O3'-C3'	7.14	130.91	120.20
2	AA	1536	A	N9-C1'-C2'	7.14	122.71	112.00
38	BF	48	TYR	N-CA-C	-7.13	104.55	113.18
39	BG	9	CYS	N-CA-C	-7.13	104.71	113.19
44	BL	48	GLU	N-CA-C	-7.12	103.99	113.25
44	BL	26	VAL	N-CA-C	7.12	118.03	108.27

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	19	G	C5'-C4'-C3'	7.12	125.88	115.20
35	BB	39	U	C4'-C3'-O3'	-7.12	102.33	113.00
4	AD	134	ILE	CA-C-N	7.11	127.37	119.90
4	AD	134	ILE	C-N-CA	7.11	127.37	119.90
43	BK	122	ARG	N-CA-C	7.11	120.08	111.40
34	BA	906	G	C2'-C3'-O3'	-7.11	103.03	113.70
49	BQ	3	ARG	N-CA-C	7.11	120.67	108.02
35	BB	56	C	C1'-C2'-O2'	7.10	119.06	108.40
15	AP	34	GLY	CA-C-O	-7.10	115.23	122.26
34	BA	372	C	N1-C1'-C2'	7.09	124.64	114.00
35	BC	19	G	N9-C1'-C2'	7.09	124.64	114.00
37	BE	49	GLU	N-CA-C	-7.09	102.60	111.11
5	AE	79	ARG	N-CA-C	7.09	125.90	110.80
28	A4	65	ASP	N-CA-C	-7.09	102.09	111.24
46	BN	47	VAL	N-CA-C	-7.09	103.78	113.00
2	AA	268	C	C4'-C3'-O3'	-7.09	102.37	113.00
5	AE	193	PHE	N-CA-C	-7.09	99.40	109.96
2	AA	1774	C	C2'-C3'-O3'	-7.08	103.08	113.70
6	AF	57	PRO	N-CA-C	7.08	127.06	112.47
21	AV	174	PRO	N-CA-C	-7.08	105.02	113.86
50	BR	26	GLU	N-CA-C	-7.07	103.50	111.07
32	A8	32	GLN	N-CA-C	-7.07	95.74	110.80
12	AM	54	VAL	N-CA-C	-7.07	102.94	110.36
2	AA	162	U	N1-C1'-C2'	7.07	122.60	112.00
2	AA	687	C	N1-C1'-C2'	7.06	122.60	112.00
8	AH	22	THR	N-CA-C	-7.06	100.01	110.46
14	AO	101	ASP	N-CA-C	7.06	120.78	109.83
20	AU	111	ARG	N-CA-C	7.06	118.76	111.14
35	BB	5	A	C1'-C2'-O2'	7.06	118.99	108.40
2	AA	2266	A	C1'-C2'-O2'	7.05	118.98	108.40
39	BG	31	CYS	CB-CA-C	-7.05	101.19	111.91
41	BI	93	SER	N-CA-C	7.04	120.98	108.24
35	BB	33	U	O4'-C1'-C2'	-7.03	100.57	107.60
2	AA	2358	G	N9-C1'-C2'	-7.03	101.45	112.00
2	AA	2848	G	C4'-C3'-O3'	-7.02	98.87	109.40
7	AG	11	HIS	N-CA-C	-7.02	103.22	112.34
15	AP	56	ILE	O-C-N	7.02	129.60	122.79
5	AE	245	ARG	N-CA-C	7.02	125.75	110.80
2	AA	2383	G	N9-C1'-C2'	7.01	122.52	112.00
5	AE	263	GLU	N-CA-C	7.01	118.42	108.74
34	BA	354	G	C2'-C3'-O3'	-7.01	103.18	113.70
2	AA	787	U	C5'-C4'-O4'	7.01	120.32	109.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	38	A	O3'-P-O5'	-7.01	93.48	104.00
35	BB	55	U	N1-C1'-C2'	7.01	122.51	112.00
43	BK	75	ARG	CA-C-N	7.01	128.60	119.84
43	BK	75	ARG	C-N-CA	7.01	128.60	119.84
2	AA	1332	G	C2'-C3'-O3'	-7.01	103.19	113.70
33	A9	11	CYS	N-CA-C	-7.00	101.14	110.24
35	BB	38	A	C2'-C3'-O3'	7.00	124.20	113.70
2	AA	734	A	C2'-C3'-O3'	-7.00	103.20	113.70
56	BX	14	TRP	N-CA-C	7.00	119.56	111.02
2	AA	573	G	N9-C1'-C2'	7.00	122.50	112.00
2	AA	602	G	N9-C1'-C2'	7.00	122.50	112.00
18	AS	25	ARG	N-CA-C	7.00	125.71	110.80
21	AV	72	ASP	N-CA-C	7.00	125.71	110.80
2	AA	1440	G	C5'-C4'-C3'	-7.00	105.51	116.00
5	AE	66	GLU	N-CA-C	-7.00	95.90	110.80
34	BA	1299	A	C4'-C3'-O3'	-6.99	102.52	113.00
11	AL	60	VAL	N-CA-C	-6.99	98.33	108.11
39	BG	200	GLU	N-CA-C	6.98	118.58	110.97
2	AA	548	A	N9-C1'-C2'	6.98	122.47	112.00
12	AM	57	TYR	N-CA-C	6.98	118.89	111.28
2	AA	2425	A	N9-C1'-C2'	6.98	122.47	112.00
21	AV	152	ILE	N-CA-C	6.98	123.86	109.34
32	A8	46	LYS	N-CA-C	6.97	120.52	109.50
30	A6	51	ARG	N-CA-C	-6.97	98.33	109.76
2	AA	974	G	N9-C1'-C2'	6.97	124.45	114.00
47	BO	70	ILE	CA-C-N	-6.97	111.13	119.84
47	BO	70	ILE	C-N-CA	-6.97	111.13	119.84
2	AA	1512	G	N9-C1'-C2'	6.96	122.44	112.00
11	AL	13	LEU	N-CA-C	6.96	116.32	108.25
3	AC	177	LYS	N-CA-C	-6.95	100.89	110.35
5	AE	312	ARG	N-CA-C	-6.95	96.00	110.80
6	AF	4	THR	N-CA-C	6.95	120.32	109.96
2	AA	574	C	N1-C1'-C2'	6.94	124.42	114.00
35	BB	37	G	N9-C1'-C2'	6.94	122.41	112.00
2	AA	528	A	O4'-C1'-C2'	-6.94	100.66	107.60
40	BH	90	VAL	N-CA-C	6.93	117.82	108.11
43	BK	70	GLN	N-CA-C	6.93	125.57	110.80
2	AA	1122	G	C2'-C3'-O3'	-6.93	103.30	113.70
34	BA	595	G	C2'-C3'-O3'	-6.93	103.30	113.70
2	AA	984	A	C4'-C3'-O3'	6.93	123.39	113.00
40	BH	119	LEU	N-CA-C	6.92	119.69	108.41
46	BN	50	TYR	N-CA-C	6.92	119.55	108.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AB	119	A	N9-C1'-C2'	-6.92	101.63	112.00
2	AA	444(A)	A	N9-C1'-C2'	6.92	124.37	114.00
2	AA	2665	A	C4'-C3'-O3'	-6.92	102.63	113.00
5	AE	260	GLN	N-CA-C	-6.91	97.47	108.73
4	AD	118	GLY	N-CA-C	6.91	126.43	112.34
2	AA	2777	G	C4'-C3'-O3'	-6.91	102.64	113.00
2	AA	1742	C	O4'-C4'-C3'	-6.90	97.10	104.00
2	AA	1781	C	C2'-C3'-O3'	6.90	124.05	113.70
28	A4	28	ARG	N-CA-C	6.90	125.06	109.81
6	AF	168	ARG	N-CA-C	6.90	125.49	110.80
2	AA	2422	A	N9-C1'-C2'	6.89	122.34	112.00
34	BA	884	U	C2'-C3'-O3'	-6.89	103.36	113.70
38	BF	193	TYR	N-CA-C	6.89	120.99	112.59
3	AC	7	TYR	N-CA-C	6.88	122.78	113.97
43	BK	54	ASP	N-CA-C	6.88	120.89	111.39
39	BG	103	ASN	N-CA-C	-6.88	103.71	111.07
53	BU	84	LYS	CA-C-N	-6.87	113.43	123.05
53	BU	84	LYS	C-N-CA	-6.87	113.43	123.05
2	AA	775	G	N9-C1'-C2'	6.87	122.31	112.00
34	BA	530	G	C2'-C3'-O3'	-6.87	103.39	113.70
2	AA	1980	G	C2'-C3'-O3'	6.87	119.81	109.50
35	BB	53	G	N9-C1'-C2'	-6.87	101.69	112.00
4	AD	128	ALA	N-CA-C	6.87	118.54	108.86
17	AR	16	GLY	N-CA-C	-6.87	96.90	113.18
23	AX	58	VAL	N-CA-C	6.87	118.44	107.73
11	AL	68	PHE	N-CA-C	6.86	125.42	110.80
35	BB	17	U	N1-C1'-C2'	6.86	122.29	112.00
7	AG	100	ASP	N-CA-C	6.86	125.41	110.80
39	BG	129	ASN	N-CA-C	-6.86	96.19	110.80
2	AA	73	A	C2'-C3'-O3'	-6.86	103.42	113.70
20	AU	87	VAL	CA-C-N	6.85	127.23	119.83
20	AU	87	VAL	C-N-CA	6.85	127.23	119.83
2	AA	1727	U	N1-C1'-C2'	6.85	122.28	112.00
2	AA	2765	A	C2'-C3'-O3'	-6.85	103.43	113.70
16	AQ	115	VAL	N-CA-C	-6.85	103.11	110.23
3	AC	180	PHE	N-CA-C	-6.85	101.15	109.57
34	BA	751	U	C2'-C3'-O3'	-6.85	103.43	113.70
2	AA	2447	G	C2'-C3'-O3'	6.84	119.77	109.50
12	AM	37	ALA	N-CA-C	-6.84	97.19	108.76
2	AA	2174	C	N1-C1'-C2'	6.84	122.26	112.00
2	AA	2281	C	C4'-C3'-O3'	-6.84	102.74	113.00
21	AV	94	VAL	N-CA-C	6.84	116.56	106.85

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	AD	172	ILE	CB-CA-C	-6.83	103.09	111.08
8	AH	82	TYR	N-CA-C	6.83	120.03	108.90
27	A3	49	GLN	N-CA-C	-6.83	100.42	110.52
43	BK	111	ILE	CB-CA-C	-6.83	100.99	110.96
2	AA	189	G	N9-C1'-C2'	-6.82	101.76	112.00
2	AA	2123	G	N9-C1'-C2'	-6.81	101.78	112.00
2	AA	2781	A	N9-C1'-C2'	6.81	124.22	114.00
35	BC	5	A	C2'-C3'-O3'	-6.81	103.48	113.70
2	AA	2689	U	C2'-C3'-O3'	-6.81	99.29	109.50
49	BQ	11	LYS	N-CA-C	-6.81	104.08	112.38
38	BF	198	VAL	CB-CA-C	-6.81	101.38	110.98
40	BH	98	THR	N-CA-C	-6.80	104.98	113.55
2	AA	2518	A	C2'-C3'-O3'	-6.80	103.50	113.70
12	AM	109	TYR	N-CA-C	6.80	120.38	108.75
2	AA	1312	U	C2'-C3'-O3'	6.80	123.90	113.70
2	AA	1608	A	C4'-C3'-O3'	-6.80	102.81	113.00
40	BH	92	LYS	CA-C-N	6.80	128.59	120.23
40	BH	92	LYS	C-N-CA	6.80	128.59	120.23
2	AA	2113	U	N1-C1'-C2'	6.79	124.19	114.00
2	AA	1646	C	N1-C1'-C2'	6.79	122.19	112.00
35	BB	4	G	C5'-C4'-C3'	6.79	126.18	116.00
16	AQ	107	ASN	N-CA-C	6.78	125.25	110.80
34	BA	895	G	C2'-C3'-O3'	-6.78	103.52	113.70
41	BI	47	ARG	N-CA-C	-6.78	98.17	108.67
55	BW	97	ALA	CA-C-N	6.77	128.31	119.84
55	BW	97	ALA	C-N-CA	6.77	128.31	119.84
6	AF	238	SER	N-CA-C	-6.77	104.12	112.38
34	BA	1239	A	C2'-C3'-O3'	-6.77	103.54	113.70
8	AH	51	VAL	CA-C-N	-6.77	111.05	121.74
8	AH	51	VAL	C-N-CA	-6.77	111.05	121.74
34	BA	771	G	C5'-C4'-C3'	-6.76	105.86	116.00
35	BB	34	G	C5'-C4'-O4'	-6.76	99.66	109.80
25	A1	109	LEU	CA-CB-CG	-6.76	92.64	116.30
39	BG	135	LEU	CA-C-N	6.76	128.29	119.84
39	BG	135	LEU	C-N-CA	6.76	128.29	119.84
13	AN	9	LYS	N-CA-C	6.76	119.42	109.69
34	BA	235	C	C2'-C3'-O3'	-6.75	103.57	113.70
34	BA	428	G	C2'-C3'-O3'	6.75	119.63	109.50
39	BG	78	LEU	N-CA-C	-6.75	102.78	111.02
33	A9	26	ILE	N-CA-C	6.75	117.62	108.17
53	BU	32	ARG	N-CA-C	6.75	122.46	112.94
26	A2	13	ARG	N-CA-C	-6.75	96.42	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	1800	C	N1-C1'-C2'	-6.75	101.88	112.00
18	AS	101	SER	CA-C-N	6.75	131.41	122.30
18	AS	101	SER	C-N-CA	6.75	131.41	122.30
41	BI	95	GLU	CA-C-N	-6.75	111.41	119.84
41	BI	95	GLU	C-N-CA	-6.75	111.41	119.84
50	BR	78	TYR	N-CA-C	-6.75	103.85	111.14
44	BL	112	LYS	N-CA-C	-6.75	99.31	110.17
2	AA	945	A	O4'-C4'-C3'	-6.74	97.26	104.00
2	AA	2777	G	O4'-C1'-C2'	-6.74	100.86	107.60
16	AQ	120	GLU	N-CA-C	-6.74	103.12	111.75
37	BE	142	LEU	N-CA-C	-6.74	103.93	111.28
15	AP	75	SER	N-CA-C	6.74	120.06	109.96
20	AU	6	LYS	N-CA-C	-6.74	104.16	112.38
15	AP	98	GLY	N-CA-C	6.73	129.14	113.18
2	AA	1542	G	N9-C1'-C2'	-6.73	101.90	112.00
3	AC	175	VAL	CB-CA-C	-6.72	102.87	111.20
2	AA	196	A	N9-C1'-C2'	6.72	124.08	114.00
27	A3	20	TYR	N-CA-C	-6.72	99.57	109.11
35	BB	51	G	N9-C1'-C2'	6.72	122.08	112.00
34	BA	1541	U	O4'-C1'-C2'	-6.71	100.89	107.60
47	BO	45	PRO	N-CA-C	6.71	121.48	111.41
2	AA	458	G	N9-C1'-C2'	6.71	122.06	112.00
20	AU	96	VAL	CB-CA-C	-6.71	103.99	111.23
2	AA	268	C	N1-C1'-C2'	6.70	122.05	112.00
34	BA	390	C	C2'-C3'-O3'	-6.70	103.65	113.70
3	AC	60	GLY	N-CA-C	-6.70	101.36	110.20
52	BT	91	ARG	N-CA-C	-6.70	103.22	111.33
34	BA	1171	G	C4'-C3'-O3'	-6.70	102.95	113.00
38	BF	189	ALA	N-CA-C	6.70	119.54	108.49
35	BB	40	C	C4'-C3'-O3'	-6.69	102.96	113.00
2	AA	2678	C	C4'-C3'-O3'	-6.69	102.96	113.00
21	AV	24	TYR	N-CA-C	6.69	119.31	108.41
2	AA	1530	G	N9-C1'-C2'	6.69	122.03	112.00
2	AA	1018	C	N1-C1'-C2'	6.69	122.03	112.00
2	AA	1454	U	C2'-C3'-O3'	-6.69	103.67	113.70
34	BA	816	A	N9-C1'-C2'	6.69	122.03	112.00
7	AG	39	ASP	N-CA-C	-6.69	103.92	111.14
45	BM	60	ARG	N-CA-C	6.69	125.04	110.80
2	AA	1593	G	C5'-C4'-C3'	-6.68	105.97	116.00
7	AG	72	LYS	N-CA-C	6.68	120.34	107.44
47	BO	84	LEU	N-CA-C	6.68	119.59	109.23
34	BA	388	G	C4'-C3'-O3'	-6.68	102.98	113.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	AK	126	TYR	N-CA-C	6.68	119.31	108.63
37	BE	158	LEU	N-CA-C	6.67	124.56	109.81
14	AO	139	SER	N-CA-C	6.67	120.11	109.24
34	BA	931	C	C2'-C3'-O3'	-6.67	103.70	113.70
9	AI	26	GLU	N-CA-C	-6.67	103.94	111.07
2	AA	70	G	C2'-C3'-O3'	-6.67	103.70	113.70
6	AF	195	VAL	N-CA-C	6.66	117.63	107.77
15	AP	19	TYR	N-CA-C	6.66	121.79	112.93
46	BN	82	VAL	N-CA-C	6.65	118.38	108.46
9	AI	37	VAL	N-CA-C	6.65	123.18	109.34
18	AS	11	ARG	CA-C-N	-6.65	113.24	122.69
18	AS	11	ARG	C-N-CA	-6.65	113.24	122.69
37	BE	132	LYS	N-CA-C	-6.65	104.06	111.71
11	AL	64	LYS	N-CA-C	-6.64	102.06	111.56
34	BA	192	U	C2'-C3'-O3'	-6.64	103.73	113.70
2	AA	360	G	N9-C1'-C2'	6.64	123.97	114.00
35	BB	34	G	O4'-C1'-C2'	-6.64	100.96	107.60
43	BK	118	VAL	N-CA-C	-6.64	102.81	110.05
2	AA	2569	G	C2'-C3'-O3'	-6.64	103.74	113.70
33	A9	24	LEU	N-CA-C	-6.64	99.01	109.50
2	AA	686	G	C2'-C3'-O3'	-6.64	99.54	109.50
47	BO	55	VAL	N-CA-C	6.64	117.85	108.36
18	AS	13	SER	CA-C-N	-6.64	111.54	119.84
18	AS	13	SER	C-N-CA	-6.64	111.54	119.84
2	AA	2609	U	C2'-C3'-O3'	-6.63	99.55	109.50
15	AP	30	GLN	N-CA-C	6.63	124.92	110.80
15	AP	25	GLY	N-CA-C	-6.63	97.47	113.18
2	AA	789	A	C1'-C2'-O2'	-6.62	101.87	111.80
2	AA	1220	A	N9-C1'-C2'	6.62	121.94	112.00
2	AA	2275	C	N1-C1'-C2'	6.62	123.94	114.00
2	AA	2599	G	N9-C1'-C2'	6.62	121.93	112.00
2	AA	421	U	N1-C1'-C2'	6.62	121.93	112.00
9	AJ	26	GLU	N-CA-C	-6.62	103.99	111.07
44	BL	60	ASP	N-CA-C	-6.62	97.94	108.73
15	AP	11	LYS	CA-C-N	6.62	128.11	119.84
15	AP	11	LYS	C-N-CA	6.62	128.11	119.84
45	BM	61	GLU	N-CA-C	-6.61	96.71	110.80
5	AE	74	GLU	N-CA-C	6.61	119.51	108.73
12	AM	139	LEU	N-CA-C	6.61	121.36	113.16
35	BB	41	U	C3'-C2'-O2'	6.61	120.61	110.70
34	BA	531	U	N1-C1'-C2'	6.61	123.91	114.00
34	BA	295	C	C4'-C3'-O3'	-6.60	103.10	113.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AB	34	U	N1-C1'-C2'	6.60	121.90	112.00
2	AA	1304	C	C2'-C3'-O3'	-6.60	103.80	113.70
2	AA	1667	G	C4'-C3'-O3'	-6.60	99.50	109.40
51	BS	6	LEU	N-CA-C	6.60	119.09	107.61
51	BS	62	VAL	N-CA-C	-6.60	99.36	109.78
35	BB	76	A	C4'-C3'-O3'	6.59	122.89	113.00
2	AA	737	C	C2'-C3'-O3'	-6.59	103.81	113.70
4	AD	79	THR	N-CA-C	6.59	118.22	108.60
34	BA	314	C	N1-C1'-C2'	6.59	121.89	112.00
2	AA	1618	A	C3'-C2'-O2'	6.59	120.58	110.70
2	AA	1786	A	C4'-C3'-O3'	-6.59	103.12	113.00
2	AA	2713	A	C4'-C3'-O3'	-6.59	103.12	113.00
2	AA	1140	C	N1-C1'-C2'	6.58	123.88	114.00
3	AC	45	ALA	N-CA-C	6.58	118.21	108.60
2	AA	2131	G	N9-C1'-C2'	6.58	121.87	112.00
37	BE	219	VAL	N-CA-C	-6.58	102.09	111.17
15	AP	96	GLN	N-CA-C	6.58	124.81	110.80
25	A1	85	ARG	N-CA-C	-6.57	96.80	110.80
2	AA	1312	U	C4'-C3'-O3'	-6.57	103.15	113.00
2	AA	2585	U	N1-C1'-C2'	6.57	121.85	112.00
53	BU	25	THR	N-CA-C	-6.57	104.87	114.39
19	AT	67	ARG	N-CA-C	-6.56	99.32	109.76
2	AA	2832	U	N1-C1'-C2'	-6.56	102.16	112.00
2	AA	1650	G	C4'-C3'-O3'	-6.56	103.16	113.00
15	AP	32	LYS	N-CA-C	6.55	119.09	108.41
2	AA	1625	C	O4'-C4'-C3'	6.55	110.55	104.00
2	AA	445	C	C4'-C3'-O3'	-6.55	103.18	113.00
34	BA	1452	C	C2'-C3'-O3'	-6.54	103.88	113.70
42	BJ	40	ALA	N-CA-C	-6.54	103.26	111.11
42	BJ	148	ASN	N-CA-C	-6.54	96.86	110.80
7	AG	142	ALA	N-CA-C	6.54	120.12	111.75
2	AA	1728	G	N9-C1'-C2'	6.54	121.80	112.00
2	AA	2320	A	N9-C1'-C2'	6.54	121.80	112.00
2	AA	1493	C	N1-C1'-C2'	6.53	121.80	112.00
38	BF	159	GLY	N-CA-C	6.53	123.88	114.67
2	AA	565	C	C2'-C3'-O3'	-6.53	103.91	113.70
5	AE	97	THR	N-CA-C	6.53	121.86	113.18
34	BA	1066	C	C2'-C3'-O3'	-6.53	103.91	113.70
35	BB	19	G	C3'-C2'-O2'	6.53	124.39	114.60
2	AA	2772	C	C5'-C4'-O4'	-6.53	100.01	109.80
2	AA	2835	A	C2'-C3'-O3'	-6.53	103.91	113.70
2	AA	714	U	C4'-C3'-O3'	6.52	122.78	113.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	AE	178	LEU	N-CA-C	-6.52	104.17	111.28
4	AD	89	ASN	N-CA-C	-6.52	99.96	110.32
34	BA	1391	U	C4'-C3'-O3'	-6.52	103.22	113.00
16	AQ	90	LEU	N-CA-C	6.52	118.18	111.14
40	BH	134	ALA	N-CA-C	-6.52	103.29	111.11
2	AA	2819	G	N9-C1'-C2'	6.51	121.77	112.00
6	AF	218	VAL	N-CA-C	-6.51	95.81	109.34
13	AN	120	GLU	N-CA-C	6.51	118.75	108.79
35	BB	52	U	N1-C1'-C2'	6.51	121.76	112.00
4	AD	159	THR	N-CA-C	-6.50	101.25	110.35
10	AK	4	ILE	CB-CA-C	-6.50	105.27	112.68
22	AW	33	VAL	N-CA-C	-6.50	103.21	110.62
19	AT	45	TYR	N-CA-C	6.50	119.87	108.56
24	A0	116	LEU	N-CA-C	-6.50	98.14	108.73
20	AU	63	ILE	CB-CA-C	-6.49	106.19	111.71
2	AA	1732	A	N9-C1'-C2'	6.49	121.73	112.00
17	AR	5	GLU	CA-C-N	-6.49	109.15	121.54
17	AR	5	GLU	C-N-CA	-6.49	109.15	121.54
2	AA	338	G	N9-C1'-C2'	6.48	121.72	112.00
2	AA	2610	C	C1'-O4'-C4'	-6.48	103.22	109.70
2	AA	2490	G	N9-C1'-C2'	6.47	123.71	114.00
38	BF	130	VAL	N-CA-C	6.47	118.00	110.62
9	AI	80	ILE	N-CA-C	6.47	117.16	110.36
39	BG	104	VAL	N-CA-C	-6.47	103.50	110.23
2	AA	528	A	C4'-C3'-O3'	6.47	122.70	113.00
4	AD	108	ASN	N-CA-C	6.47	124.58	110.80
14	AO	108	VAL	N-CA-C	6.47	117.34	107.77
31	A7	5	TYR	N-CA-C	6.47	120.43	112.54
7	AG	20	LYS	N-CA-C	6.47	124.57	110.80
34	BA	378	G	C4'-C3'-O3'	-6.47	103.30	113.00
34	BA	968	A	N9-C1'-C2'	6.47	123.70	114.00
2	AA	1568	G	N9-C1'-C2'	6.46	121.69	112.00
28	A4	32	HIS	N-CA-C	6.46	124.57	110.80
15	AP	20	ILE	N-CA-CB	6.46	121.89	111.23
34	BA	1200	C	N1-C1'-C2'	6.46	121.69	112.00
2	AA	1247	A	N9-C1'-C2'	6.46	121.69	112.00
5	AE	201	VAL	N-CA-C	6.46	116.88	108.35
35	BB	5	A	C4'-C3'-O3'	6.46	122.69	113.00
2	AA	142	G	O4'-C1'-N9	6.45	118.17	108.50
5	AE	49	THR	CA-C-N	-6.45	111.78	119.84
5	AE	49	THR	C-N-CA	-6.45	111.78	119.84
5	AE	227	ALA	N-CA-C	-6.45	104.25	111.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
28	A4	6	HIS	CA-C-N	-6.45	111.78	119.84
28	A4	6	HIS	C-N-CA	-6.45	111.78	119.84
3	AC	139	ASN	CA-C-N	6.45	127.90	119.84
3	AC	139	ASN	C-N-CA	6.45	127.90	119.84
12	AM	58	GLU	N-CA-C	-6.45	104.29	111.71
34	BA	90	U	N1-C1'-C2'	6.45	121.67	112.00
2	AA	1656	C	C2'-C3'-O3'	-6.44	104.03	113.70
2	AA	1140	C	C1'-C2'-O2'	-6.44	102.14	111.80
34	BA	575	G	N9-C1'-C2'	6.44	121.66	112.00
2	AA	1888	G	N9-C1'-C2'	6.44	121.65	112.00
35	BB	21	A	C5'-C4'-C3'	6.44	125.65	116.00
4	AD	163	VAL	N-CA-C	-6.43	95.97	109.34
35	BC	60	C	C2'-C3'-O3'	-6.43	104.06	113.70
2	AA	2566	A	N9-C1'-C2'	6.43	121.64	112.00
8	AH	161	ILE	N-CA-C	-6.42	100.47	109.21
34	BA	114	U	C2'-C3'-O3'	-6.42	104.06	113.70
34	BA	685	G	C2'-C3'-O3'	-6.42	104.06	113.70
35	BB	58	A	N9-C1'-C2'	6.42	121.64	112.00
34	BA	1302	U	C2'-C3'-O3'	6.42	119.13	109.50
55	BW	9	ASN	N-CA-C	6.42	124.47	110.80
2	AA	865	C	N1-C1'-C2'	6.42	121.62	112.00
19	AT	19	ASP	N-CA-C	6.42	117.96	110.97
2	AA	1183	G	O4'-C4'-C3'	-6.41	97.59	104.00
23	AX	37	LEU	N-CA-C	6.41	119.06	108.99
47	BO	58	VAL	N-CA-C	6.41	119.19	108.81
2	AA	2732	G	N9-C1'-C2'	6.41	121.61	112.00
15	AP	115	SER	N-CA-C	-6.41	97.15	110.80
2	AA	1699	G	N9-C1'-C2'	6.41	123.61	114.00
3	AC	86	ALA	N-CA-C	-6.41	104.22	111.07
4	AD	102	TYR	N-CA-C	-6.41	97.15	110.80
33	A9	27	CYS	N-CA-CB	-6.40	99.41	110.86
36	B1	59	A	C2'-C3'-O3'	-6.39	104.11	113.70
12	AM	133	GLY	CA-C-N	6.39	128.75	120.44
12	AM	133	GLY	C-N-CA	6.39	128.75	120.44
10	AK	79	ILE	CA-C-O	6.39	123.26	119.94
46	BN	42	TRP	N-CA-C	6.39	116.43	108.19
10	AK	129	VAL	CB-CA-C	-6.39	103.94	110.13
34	BA	948	C	C2'-C3'-O3'	-6.39	104.12	113.70
35	BB	10	G	C1'-C2'-O2'	6.39	117.98	108.40
15	AP	54	VAL	N-CA-C	6.38	122.61	109.34
2	AA	1899	G	C2'-C3'-O3'	-6.38	104.14	113.70
34	BA	563	A	N9-C1'-C2'	6.38	121.56	112.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	829	A	N9-C1'-C2'	6.37	121.56	112.00
17	AR	53	ASP	N-CA-C	6.37	124.37	110.80
8	AH	10	ILE	CA-C-N	6.37	127.80	119.84
8	AH	10	ILE	C-N-CA	6.37	127.80	119.84
2	AA	945	A	C2'-C3'-O3'	-6.36	104.15	113.70
2	AA	1668	A	C2'-C3'-O3'	6.36	123.24	113.70
34	BA	112	G	C3'-C2'-O2'	6.36	120.24	110.70
47	BO	20	LYS	N-CA-C	-6.36	99.52	109.25
29	A5	6	VAL	CA-C-N	6.36	127.78	119.84
29	A5	6	VAL	C-N-CA	6.36	127.78	119.84
34	BA	244	U	C2'-C3'-O3'	-6.35	99.97	109.50
11	AL	61	TYR	N-CA-C	6.35	120.67	111.02
2	AA	858	U	C2'-C3'-O3'	-6.34	104.18	113.70
2	AA	1635	G	C5'-C4'-C3'	-6.34	106.48	116.00
34	BA	533	A	N9-C1'-C2'	6.34	121.52	112.00
34	BA	388	G	N9-C1'-C2'	6.34	121.52	112.00
26	A2	21	ARG	N-CA-C	6.34	119.05	109.23
41	BI	5	GLU	N-CA-C	-6.34	99.37	109.76
37	BE	14	GLY	N-CA-C	-6.33	106.50	114.16
49	BQ	40	CYS	CA-CB-SG	6.33	128.96	114.40
2	AA	1938	A	C1'-C2'-O2'	-6.33	98.91	108.40
9	AJ	80	ILE	N-CA-C	6.33	117.00	110.36
2	AA	2564	A	C5'-C4'-C3'	-6.33	106.51	116.00
4	AD	232	VAL	CA-C-N	6.33	133.62	121.54
4	AD	232	VAL	C-N-CA	6.33	133.62	121.54
6	AF	92	PRO	N-CA-C	-6.32	99.44	112.47
41	BI	99	ALA	N-CA-C	-6.32	101.42	110.59
48	BP	86	CYS	N-CA-C	6.32	119.76	110.59
50	BR	59	MET	N-CA-C	6.32	117.83	111.07
2	AA	2724	C	C2'-C3'-O3'	-6.32	104.22	113.70
10	AK	135	PRO	N-CA-C	6.32	125.48	112.47
18	AS	106	ILE	CB-CA-C	-6.32	102.33	110.98
23	AX	27	GLY	N-CA-C	-6.32	98.20	113.18
35	BB	16	U	N1-C1'-C2'	6.32	121.47	112.00
15	AP	12	PRO	CA-C-N	6.32	129.26	120.29
15	AP	12	PRO	C-N-CA	6.32	129.26	120.29
15	AP	44	ALA	N-CA-C	6.32	124.25	110.80
3	AC	25	ALA	N-CA-C	-6.31	103.32	111.02
51	BS	18	ARG	CA-C-N	6.31	129.48	122.22
51	BS	18	ARG	C-N-CA	6.31	129.48	122.22
8	AH	19	ASN	N-CA-C	6.31	118.14	108.42
2	AA	386	G	C2'-C3'-O3'	6.31	118.97	109.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	AU	82	THR	N-CA-C	-6.31	105.60	113.55
34	BA	1301	U	N1-C1'-C2'	6.31	121.46	112.00
47	BO	50	SER	N-CA-C	6.31	118.73	108.26
45	BM	44	VAL	N-CA-C	6.30	117.85	108.46
34	BA	1430	C	C4'-C3'-O3'	-6.30	103.55	113.00
35	BB	54	U	C3'-C2'-O2'	6.30	120.15	110.70
9	AJ	35	ALA	CA-C-N	6.30	127.71	119.84
9	AJ	35	ALA	C-N-CA	6.30	127.71	119.84
2	AA	1571	A	C5'-C4'-O4'	-6.29	100.36	109.80
2	AA	1700	A	C2'-C3'-O3'	-6.29	104.26	113.70
35	BB	34	G	N9-C1'-C2'	6.29	121.44	112.00
34	BA	1541	U	O4'-C4'-C3'	-6.29	97.71	104.00
2	AA	558	G	C4'-C3'-O3'	-6.29	103.56	113.00
2	AA	1758	G	C4'-C3'-O3'	-6.29	103.57	113.00
2	AA	2114	A	N9-C1'-C2'	6.29	121.43	112.00
20	AU	65	VAL	N-CA-C	-6.29	99.69	108.12
2	AA	2061	G	C4'-C3'-O3'	-6.29	103.57	113.00
4	AD	87	SER	CA-C-N	-6.28	113.09	122.39
4	AD	87	SER	C-N-CA	-6.28	113.09	122.39
35	BB	14	A	C4'-C3'-C2'	-6.28	96.32	102.60
35	BB	41	U	C5'-C4'-O4'	6.28	119.22	109.80
35	BB	56	C	C2'-C3'-O3'	-6.28	104.28	113.70
34	BA	960	U	N1-C1'-C2'	6.28	123.42	114.00
5	AE	211	GLN	N-CA-C	6.27	120.26	108.65
52	BT	19	VAL	N-CA-C	6.27	116.86	108.27
5	AE	94	ARG	CA-C-N	-6.27	112.64	120.79
5	AE	94	ARG	C-N-CA	-6.27	112.64	120.79
2	AA	1206	G	O4'-C4'-C3'	-6.27	97.73	104.00
13	AN	111	PHE	N-CA-C	6.27	119.54	109.83
2	AA	204	A	N9-C1'-C2'	6.27	121.40	112.00
34	BA	402	G	N9-C1'-C2'	-6.27	102.60	112.00
2	AA	1557	C	N1-C1'-C2'	6.26	121.40	112.00
2	AA	2061	G	N9-C1'-C2'	6.26	121.40	112.00
33	A9	26	ILE	CA-C-N	-6.26	112.96	122.23
33	A9	26	ILE	C-N-CA	-6.26	112.96	122.23
39	BG	8	VAL	N-CA-C	6.26	119.83	111.44
2	AA	1706	U	N1-C1'-C2'	6.26	121.39	112.00
35	BC	76	A	C4'-C3'-O3'	6.26	122.39	113.00
2	AA	1083	U	C4'-C3'-O3'	6.26	122.39	113.00
2	AA	1964	G	C1'-C2'-O2'	-6.26	102.41	111.80
16	AQ	91	ARG	N-CA-C	-6.26	103.76	111.33
13	AN	57	VAL	N-CA-C	6.26	116.50	108.12

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	AV	37	LYS	N-CA-C	-6.26	97.47	110.80
2	AA	1444	G	C2'-C3'-O3'	6.25	123.08	113.70
2	AA	2849	U	C2'-C3'-O3'	6.25	118.88	109.50
17	AR	14	GLU	C-N-CD	-6.25	99.38	125.00
35	BB	10	G	C2'-C3'-O3'	-6.25	104.33	113.70
2	AA	1480	G	C4'-C3'-O3'	-6.25	103.63	113.00
35	BB	23	A	C3'-C2'-O2'	6.25	120.07	110.70
37	BE	104	ASN	N-CA-C	-6.25	97.49	110.80
2	AA	913	U	N1-C1'-C2'	6.24	121.36	112.00
2	AA	1993	U	C3'-C2'-O2'	6.24	120.06	110.70
2	AA	2480	C	C2'-C3'-O3'	-6.24	104.33	113.70
4	AD	70	LYS	N-CA-C	-6.24	97.02	107.32
15	AP	82	LYS	CA-C-N	6.24	133.46	121.54
15	AP	82	LYS	C-N-CA	6.24	133.46	121.54
21	AV	19	ILE	N-CA-C	-6.24	100.94	109.55
2	AA	2244	U	C2'-C3'-O3'	-6.24	104.34	113.70
20	AU	21	LYS	N-CA-C	-6.24	101.08	111.37
30	A6	28	ARG	N-CA-C	6.24	118.57	108.34
2	AA	2427	C	C2'-C3'-O3'	-6.23	104.35	113.70
2	AA	2055	C	C2'-C3'-O3'	-6.23	104.36	113.70
6	AF	139	VAL	N-CA-C	6.23	122.29	109.34
52	BT	41	LYS	N-CA-C	-6.23	101.26	110.48
2	AA	532	A	N9-C1'-C2'	6.23	123.34	114.00
2	AA	2286	A	O4'-C1'-C2'	-6.23	101.37	107.60
8	AH	111	PRO	N-CA-C	-6.23	99.64	112.47
15	AP	74	ASN	N-CA-C	6.23	124.06	110.80
5	AE	244	SER	N-CA-C	6.22	124.06	110.80
37	BE	151	GLY	N-CA-C	-6.22	98.43	113.18
2	AA	249	C	C2'-C3'-O3'	-6.22	104.37	113.70
2	AA	1105	U	N1-C1'-C2'	6.22	121.33	112.00
18	AS	88	ARG	N-CA-C	-6.22	102.28	110.43
2	AA	2572	A	C2'-C3'-O3'	-6.21	104.38	113.70
2	AA	271(C)	U	C2'-C3'-O3'	6.21	123.02	113.70
2	AA	2069	G	C3'-C2'-O2'	6.21	120.02	110.70
2	AA	1140	C	C5'-C4'-C3'	6.21	124.51	115.20
34	BA	578	C	C2'-C3'-O3'	-6.21	104.39	113.70
35	BB	43	G	C2'-C3'-O3'	-6.20	104.40	113.70
35	BB	54	U	C5'-C4'-O4'	6.20	119.10	109.80
39	BG	204	ILE	CB-CA-C	-6.20	103.77	112.14
5	AE	75	THR	N-CA-C	6.20	123.50	109.81
2	AA	1420	U	N1-C1'-C2'	6.19	121.29	112.00
14	AO	141	GLU	N-CA-C	6.19	119.74	109.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	792	A	C4'-C3'-O3'	-6.19	100.11	109.40
2	AA	776	G	O4'-C1'-C2'	6.19	111.99	105.80
2	AA	1920	C	C2'-C3'-O3'	-6.19	104.41	113.70
4	AD	71	ASP	N-CA-C	6.19	119.57	110.59
34	BA	1396	A	C4'-C3'-O3'	-6.19	103.71	113.00
3	AC	225	ASN	CA-C-N	6.19	127.58	119.84
3	AC	225	ASN	C-N-CA	6.19	127.58	119.84
2	AA	1219	G	N9-C1'-C2'	6.19	121.28	112.00
2	AA	1448	G	N9-C1'-C2'	6.19	121.28	112.00
2	AA	2876	G	C2'-C3'-O3'	-6.19	104.42	113.70
10	AK	62	LEU	N-CA-C	-6.19	103.68	111.11
24	A0	65	LEU	N-CA-C	6.19	118.57	111.02
27	A3	69	PHE	N-CA-C	6.19	123.98	110.80
55	BW	96	GLY	N-CA-C	6.19	127.84	113.18
2	AA	2885	C	N1-C1'-C2'	-6.18	102.72	112.00
34	BA	319	G	C2'-C3'-O3'	-6.18	104.42	113.70
35	BB	66	A	C4'-C3'-O3'	-6.18	103.72	113.00
39	BG	25	ARG	N-CA-C	6.18	119.92	112.38
2	AA	2634	G	C2'-C3'-O3'	-6.18	104.44	113.70
2	AA	312	G	C4'-C3'-O3'	-6.17	103.74	113.00
2	AA	2210	G	C2'-C3'-O3'	6.17	118.76	109.50
2	AA	2606	C	N1-C1'-C2'	-6.17	102.74	112.00
35	BB	16	U	C5'-C4'-O4'	-6.17	100.54	109.80
48	BP	107	ALA	N-CA-C	-6.17	97.66	110.80
17	AR	48	ASN	N-CA-C	-6.17	97.66	110.80
37	BE	71	VAL	N-CA-C	6.17	118.81	108.81
34	BA	1541	U	N1-C1'-C2'	-6.17	102.75	112.00
2	AA	853	G	C4'-C3'-O3'	-6.17	103.75	113.00
45	BM	62	HIS	N-CA-C	6.16	118.22	108.79
17	AR	15	PRO	CA-N-CD	-6.16	103.37	112.00
20	AU	54	ASP	N-CA-C	-6.16	103.87	111.33
2	AA	2458	G	C5'-C4'-C3'	-6.16	106.76	116.00
17	AR	34	SER	N-CA-C	6.16	118.50	111.11
31	A7	13	ALA	N-CA-C	-6.16	103.51	111.02
2	AA	2032	G	O4'-C1'-C2'	6.16	111.95	105.80
2	AA	2361	A	C5'-C4'-C3'	-6.16	106.77	116.00
39	BG	32	ALA	N-CA-C	-6.16	97.69	110.80
35	BB	62	A	N9-C1'-C2'	6.15	121.23	112.00
2	AA	797	C	C2'-C3'-O3'	-6.15	104.47	113.70
40	BH	111	GLU	N-CA-C	-6.15	104.27	110.97
2	AA	697	C	C4'-C3'-O3'	-6.15	103.78	113.00
4	AD	129	LEU	CA-C-N	-6.15	113.22	120.11

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	AD	129	LEU	C-N-CA	-6.15	113.22	120.11
45	BM	24	VAL	N-CA-C	6.15	117.63	110.62
2	AA	2137	C	N1-C1'-C2'	6.14	121.22	112.00
8	AH	37	HIS	N-CA-C	6.14	123.39	109.81
35	BB	24	G	C4'-C3'-O3'	-6.14	103.79	113.00
2	AA	676	A	N9-C1'-C2'	6.14	121.21	112.00
2	AA	1175	U	N1-C1'-C2'	6.14	121.21	112.00
55	BW	14	LYS	N-CA-C	-6.14	97.72	110.80
10	AK	42	ALA	CA-C-N	-6.14	111.30	121.92
10	AK	42	ALA	C-N-CA	-6.14	111.30	121.92
4	AD	211	HIS	N-CA-C	-6.13	101.25	111.37
13	AN	43	VAL	N-CA-C	6.13	122.10	109.34
2	AA	958	U	C4'-C3'-O3'	-6.13	103.80	113.00
34	BA	1446	A	N9-C1'-C2'	6.13	123.19	114.00
2	AA	1671	U	C2'-C3'-O3'	-6.12	104.51	113.70
2	AA	960	A	C2'-C3'-O3'	-6.12	104.52	113.70
2	AA	1206	G	C5'-C4'-C3'	6.12	125.18	116.00
2	AA	1482	U	O4'-C1'-C2'	-6.12	101.48	107.60
2	AA	1758	G	N9-C1'-C2'	6.12	121.17	112.00
34	BA	172	A	O3'-P-O5'	-6.12	94.83	104.00
47	BO	61	THR	N-CA-C	-6.12	97.78	110.80
34	BA	13	U	C3'-C2'-O2'	6.11	119.87	110.70
34	BA	486	U	C2'-C3'-O3'	-6.11	104.53	113.70
21	AV	87	THR	N-CA-C	-6.11	105.88	113.15
2	AA	805	G	C5'-C4'-C3'	-6.10	106.85	116.00
2	AA	2508	G	N9-C1'-C2'	-6.10	102.85	112.00
10	AK	103	GLN	N-CA-C	-6.10	104.32	110.97
2	AA	147	U	N1-C1'-C2'	6.10	121.15	112.00
39	BG	123	HIS	N-CA-C	6.10	123.79	110.80
37	BE	24	TRP	N-CA-C	6.10	123.78	110.80
2	AA	1424	G	O4'-C4'-C3'	-6.09	97.91	104.00
8	AH	129	LYS	N-CA-C	-6.09	100.27	109.95
2	AA	1651	G	C4'-C3'-O3'	-6.09	103.87	113.00
2	AA	1962	C	C4'-C3'-O3'	-6.09	103.87	113.00
2	AA	2287	A	C3'-C2'-O2'	6.08	119.82	110.70
2	AA	974	G	C4'-C3'-O3'	-6.08	100.28	109.40
22	AW	4	HIS	N-CA-C	6.08	123.75	110.80
47	BO	104	VAL	N-CA-C	6.08	117.14	108.93
39	BG	26	CYS	N-CA-C	-6.08	97.86	110.80
13	AN	95	GLY	N-CA-C	6.08	127.58	113.18
2	AA	1981	A	C4'-C3'-O3'	-6.07	103.89	113.00
4	AD	89	ASN	CB-CA-C	6.07	119.89	109.51

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	271(C)	U	N1-C1'-C2'	6.07	121.10	112.00
4	AD	88	ALA	CA-C-N	-6.07	111.70	122.07
4	AD	88	ALA	C-N-CA	-6.07	111.70	122.07
21	AV	77	ALA	CA-C-N	6.07	127.42	119.84
21	AV	77	ALA	C-N-CA	6.07	127.42	119.84
2	AA	2891	G	C2'-C3'-O3'	-6.06	104.61	113.70
50	BR	45	VAL	N-CA-C	-6.06	96.73	109.34
2	AA	2275	C	C4'-C3'-O3'	-6.06	100.31	109.40
34	BA	175	C	C4'-C3'-O3'	-6.06	103.91	113.00
2	AA	797	C	N1-C1'-C2'	-6.06	102.92	112.00
24	A0	81	ASP	CA-C-N	6.06	128.64	120.65
24	A0	81	ASP	C-N-CA	6.06	128.64	120.65
38	BF	135	LYS	N-CA-C	-6.06	103.84	111.11
39	BG	164	ALA	N-CA-C	-6.06	104.00	111.33
5	AE	186	GLU	N-CA-C	6.05	118.14	110.33
34	BA	1129	C	N1-C1'-C2'	6.05	121.08	112.00
2	AA	2045	C	C4'-C3'-O3'	-6.05	103.92	113.00
14	AO	56	LYS	N-CA-C	6.05	123.69	110.80
24	A0	16	HIS	N-CA-CB	-6.05	101.21	109.98
2	AA	284	U	N1-C1'-C2'	6.05	121.07	112.00
7	AG	84	LEU	N-CA-C	-6.05	101.39	111.37
2	AA	825	C	C4'-C3'-O3'	-6.04	103.93	113.00
2	AA	2852	G	C4'-C3'-O3'	-6.04	103.94	113.00
34	BA	581	G	C2'-C3'-O3'	-6.04	104.64	113.70
2	AA	2654	A	C2'-C3'-O3'	-6.04	104.64	113.70
7	AG	36	ASN	N-CA-C	6.04	123.66	110.80
2	AA	373	U	C2'-C3'-O3'	-6.04	104.65	113.70
2	AA	1942	C	N1-C1'-C2'	6.04	121.05	112.00
15	AP	93	ILE	CB-CA-C	-6.04	103.16	111.49
17	AR	21	PHE	CA-C-N	-6.04	115.19	123.46
17	AR	21	PHE	C-N-CA	-6.04	115.19	123.46
37	BE	130	ARG	N-CA-C	6.04	123.15	109.81
2	AA	1143	A	C4'-C3'-O3'	-6.03	103.95	113.00
2	AA	646	A	N9-C1'-C2'	6.03	121.04	112.00
25	A1	11	ARG	N-CA-C	-6.03	104.40	110.97
28	A4	12	CYS	N-CA-C	6.03	123.64	110.80
28	A4	43	TRP	CA-CB-CG	6.03	125.05	113.60
40	BH	58	ALA	N-CA-C	-6.03	103.67	111.02
34	BA	274	A	C4'-C3'-O3'	6.03	118.44	109.40
50	BR	85	LEU	N-CA-C	6.03	117.65	111.14
43	BK	114	THR	N-CA-C	-6.02	100.45	109.96
8	AH	26	LYS	N-CA-C	6.02	119.29	109.24

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	1970	A	C5'-C4'-O4'	6.02	118.13	109.10
40	BH	32	VAL	N-CA-C	6.01	118.55	108.81
2	AA	1750	G	C5'-C4'-C3'	6.01	125.02	116.00
34	BA	647	C	C5'-C4'-C3'	-6.01	106.98	116.00
46	BN	39	PRO	N-CA-C	6.01	120.77	111.21
2	AA	1757	U	N1-C1'-C2'	-6.01	102.99	112.00
2	AA	607	U	C4'-C3'-O3'	-6.01	103.99	113.00
25	A1	76	TYR	CA-CB-CG	-6.00	103.09	113.90
35	BB	39	U	O4'-C1'-C2'	-6.00	101.60	107.60
5	AE	264	LEU	N-CA-C	6.00	119.29	110.59
7	AG	130	VAL	N-CA-C	6.00	116.51	108.11
34	BA	772	U	C4'-C3'-O3'	-6.00	104.00	113.00
12	AM	107	ASN	CA-C-N	6.00	127.34	119.84
12	AM	107	ASN	C-N-CA	6.00	127.34	119.84
2	AA	1805	U	O4'-C4'-C3'	-6.00	98.00	104.00
2	AA	2471	C	N1-C1'-C2'	-6.00	103.00	112.00
2	AA	2739	U	C4'-C3'-O3'	6.00	122.00	113.00
39	BG	176	LEU	N-CA-C	6.00	119.25	109.59
2	AA	1988	C	N1-C1'-C2'	-6.00	103.00	112.00
12	AM	49	ARG	N-CA-C	-6.00	103.65	111.74
34	BA	1225	A	C2'-C3'-O3'	-5.99	104.72	113.70
34	BA	1481	U	N1-C1'-C2'	5.99	120.98	112.00
25	A1	115	ASN	CB-CA-C	5.99	121.03	110.85
2	AA	2780	G	C4'-C3'-O3'	-5.98	104.03	113.00
2	AA	2758	A	C2'-C3'-O3'	-5.98	104.73	113.70
2	AA	738	G	N9-C1'-C2'	5.98	120.97	112.00
2	AA	1838	C	C2'-C3'-O3'	-5.98	104.73	113.70
2	AA	989	G	N9-C1'-C2'	5.98	120.97	112.00
34	BA	347	G	N9-C1'-C2'	-5.97	103.04	112.00
2	AA	2238	G	C2'-C3'-O3'	-5.97	104.74	113.70
30	A6	7	ARG	N-CA-C	-5.97	101.93	110.59
34	BA	1427	U	C2'-C3'-O3'	-5.97	104.74	113.70
10	AK	28	ASN	CA-C-N	-5.97	112.49	120.79
10	AK	28	ASN	C-N-CA	-5.97	112.49	120.79
5	AE	65	MET	N-CA-C	-5.97	105.24	113.18
34	BA	840	C	C2'-C3'-O3'	-5.97	104.75	113.70
7	AG	99	ASP	N-CA-C	5.96	119.20	109.06
34	BA	359	U	N1-C1'-C2'	-5.96	103.05	112.00
2	AA	8	A	C2'-C3'-O3'	-5.96	104.76	113.70
35	BB	36	A	O4'-C1'-C2'	-5.96	101.64	107.60
2	AA	870	A	C4'-C3'-O3'	-5.96	104.06	113.00
2	AA	1677	A	C4'-C3'-O3'	-5.96	104.06	113.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	BI	100	ASN	N-CA-C	-5.96	98.11	110.80
2	AA	1085	A	N9-C1'-C2'	5.95	122.93	114.00
4	AD	104	ILE	N-CA-C	5.95	121.72	109.34
4	AD	138	THR	N-CA-C	5.95	119.52	109.76
2	AA	2490	G	C2'-C3'-O3'	-5.95	100.58	109.50
2	AA	1678	G	C3'-C2'-O2'	5.94	119.61	110.70
10	AK	40	THR	CA-C-N	-5.94	112.41	119.84
10	AK	40	THR	C-N-CA	-5.94	112.41	119.84
2	AA	1012	U	N1-C1'-C2'	-5.94	103.09	112.00
26	A2	59	GLU	N-CA-C	5.94	116.08	108.24
2	AA	2118	U	C4'-C3'-O3'	5.94	121.91	113.00
54	BV	38	SER	N-CA-C	5.94	118.19	110.53
2	AA	1140	C	C1'-O4'-C4'	-5.94	103.76	109.70
35	BB	43	G	N9-C1'-C2'	-5.93	103.10	112.00
45	BM	98	ILE	N-CA-C	5.93	118.53	108.86
26	A2	4	ILE	N-CA-C	5.93	116.15	106.72
2	AA	1670	C	C2'-C3'-O3'	5.93	122.59	113.70
2	AA	1444	G	C3'-C2'-O2'	5.93	119.59	110.70
2	AA	2064	C	C4'-C3'-O3'	-5.93	104.11	113.00
2	AA	698	C	N1-C1'-C2'	5.92	120.89	112.00
2	AA	2864	G	C4'-C3'-O3'	-5.92	104.11	113.00
2	AA	1780	A	C4'-C3'-O3'	-5.92	100.52	109.40
2	AA	670	A	C4'-C3'-O3'	5.92	118.28	109.40
4	AD	90	ILE	CA-C-N	-5.92	113.39	122.62
4	AD	90	ILE	C-N-CA	-5.92	113.39	122.62
13	AN	84	CYS	CB-CA-C	-5.92	105.93	114.87
40	BH	41	VAL	N-CA-C	5.92	116.16	108.35
49	BQ	41	ARG	N-CA-C	-5.92	104.65	112.34
16	AQ	102	LEU	N-CA-C	5.92	118.78	109.96
35	BB	41	U	O4'-C1'-C2'	-5.92	101.68	107.60
37	BE	137	ARG	N-CA-C	5.92	118.21	111.11
2	AA	1673	U	N1-C1'-C2'	5.91	120.87	112.00
2	AA	1026	U	O4'-C1'-C2'	-5.91	101.69	107.60
2	AA	1510	A	C2'-C3'-O3'	-5.91	104.84	113.70
2	AA	1925	C	N1-C1'-C2'	-5.91	103.14	112.00
37	BE	169	LYS	N-CA-C	-5.91	98.21	110.80
2	AA	1521	G	N9-C1'-C2'	5.91	120.86	112.00
34	BA	197	A	C2'-C3'-O3'	5.91	118.36	109.50
35	BB	15	G	C5'-C4'-C3'	-5.90	107.15	116.00
34	BA	484	G	C2'-C3'-O3'	5.90	118.34	109.50
24	A0	51	LEU	N-CA-C	-5.89	104.76	111.07
37	BE	129	GLU	N-CA-C	5.89	119.28	110.14

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
51	BS	42	ARG	N-CA-C	-5.89	105.74	113.17
2	AA	70	G	N9-C1'-C2'	5.89	120.84	112.00
2	AA	2508	G	C4'-C3'-O3'	-5.89	104.16	113.00
5	AE	217	TRP	N-CA-C	5.89	118.26	108.13
2	AA	2600	A	C2'-C3'-O3'	-5.89	104.87	113.70
27	A3	67	VAL	N-CA-C	5.89	121.59	109.34
16	AQ	36	ALA	N-CA-C	-5.89	99.69	109.46
2	AA	1916	A	C2'-C3'-O3'	-5.89	104.87	113.70
25	A1	77	SER	N-CA-C	-5.89	103.84	111.02
47	BO	55	VAL	CB-CA-C	-5.89	102.83	110.84
42	BJ	132	GLY	N-CA-C	5.88	118.92	111.09
34	BA	1124	G	N9-C1'-C2'	5.88	122.82	114.00
53	BU	86	VAL	N-CA-C	5.88	116.65	109.30
17	AR	5	GLU	CA-C-O	-5.88	112.10	120.51
6	AF	194	PHE	N-CA-C	5.88	117.78	108.67
35	BB	32	C	C5'-C4'-C3'	-5.88	107.19	116.00
2	AA	787	U	O4'-C4'-C3'	-5.87	98.13	104.00
2	AA	1640	C	C2'-C3'-O3'	-5.87	104.89	113.70
2	AA	2664	G	O4'-C4'-C3'	-5.87	98.13	104.00
34	BA	729	A	C2'-C3'-O3'	-5.87	104.89	113.70
34	BA	884	U	N1-C1'-C2'	5.87	120.81	112.00
34	BA	1418	A	C4'-C3'-O3'	-5.87	104.19	113.00
52	BT	56	VAL	N-CA-C	-5.87	98.76	107.51
29	A5	11	THR	N-CA-C	-5.87	100.61	109.95
2	AA	2570	G	C4'-C3'-O3'	-5.87	104.20	113.00
15	AP	131	ALA	N-CA-C	-5.87	103.86	111.02
17	AR	31	PHE	CA-C-N	5.87	132.75	121.54
17	AR	31	PHE	C-N-CA	5.87	132.75	121.54
47	BO	36	VAL	CB-CA-C	-5.87	102.71	110.98
2	AA	1766	U	C2'-C3'-O3'	-5.87	104.90	113.70
7	AG	94	ALA	N-CA-C	5.87	119.75	112.24
27	A3	64	ASP	N-CA-C	5.87	116.30	108.38
5	AE	243	PRO	N-CA-C	-5.86	105.38	113.53
20	AU	104	GLU	N-CA-C	-5.86	104.72	112.34
35	BB	9	A	C3'-C2'-O2'	-5.86	105.80	114.60
2	AA	957	A	C4'-C3'-O3'	-5.86	104.21	113.00
2	AA	1681	G	C2'-C3'-O3'	-5.86	100.71	109.50
2	AA	1625	C	C3'-C2'-C1'	5.86	107.16	101.30
2	AA	1780	A	C1'-C2'-O2'	-5.86	103.02	111.80
38	BF	123	GLN	N-CA-C	-5.86	103.87	111.02
34	BA	556	C	O4'-C4'-C3'	-5.86	98.14	104.00
35	BB	29	A	C3'-C2'-O2'	5.86	119.48	110.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	1913	A	C2'-C3'-O3'	-5.85	104.92	113.70
5	AE	220	GLN	N-CA-C	-5.85	101.62	110.28
52	BT	82	MET	N-CA-C	5.85	117.53	111.03
10	AK	78	THR	N-CA-C	5.85	118.63	107.75
6	AF	237	GLU	N-CA-C	5.85	121.02	111.37
28	A4	44	THR	N-CA-C	5.85	116.28	108.38
34	BA	898	G	C4'-C3'-O3'	-5.85	104.22	113.00
2	AA	687	C	C4'-C3'-O3'	-5.85	104.23	113.00
2	AA	1141	U	C2'-C3'-O3'	-5.85	104.93	113.70
17	AR	36	CYS	CA-CB-SG	5.85	127.85	114.40
34	BA	413	G	N9-C1'-C2'	5.85	120.77	112.00
42	BJ	145	ALA	N-CA-C	-5.85	102.00	110.24
2	AA	270(M)	U	N1-C1'-C2'	5.84	120.77	112.00
2	AA	453	C	C2'-C3'-O3'	-5.84	104.94	113.70
15	AP	36	ASN	N-CA-C	5.84	123.24	110.80
2	AA	270(M)	U	C2'-C3'-O3'	-5.84	104.94	113.70
4	AD	64	ILE	CA-C-N	-5.83	112.31	122.64
4	AD	64	ILE	C-N-CA	-5.83	112.31	122.64
6	AF	149	LYS	N-CA-C	5.83	118.98	108.48
34	BA	258	G	C2'-C3'-O3'	-5.83	104.95	113.70
34	BA	422	C	C2'-C3'-O3'	-5.83	104.95	113.70
38	BF	163	ALA	N-CA-C	5.83	119.19	107.41
34	BA	181	G	C2'-C3'-O3'	5.83	118.24	109.50
2	AA	192	C	C3'-C2'-O2'	5.83	119.44	110.70
14	AO	66	VAL	N-CA-C	5.83	121.45	109.34
35	BB	33	U	C2'-C3'-O3'	5.83	122.44	113.70
53	BU	44	LEU	N-CA-C	5.83	120.11	112.89
2	AA	1156	A	N9-C1'-C2'	5.82	120.74	112.00
2	AA	1829	A	C4'-C3'-O3'	-5.82	104.26	113.00
2	AA	1924	C	N1-C1'-C2'	-5.82	103.27	112.00
42	BJ	26	PHE	N-CA-C	5.82	118.12	111.02
2	AA	2224	G	C5'-C4'-C3'	-5.82	107.27	116.00
2	AA	1902	C	C2'-C3'-O3'	-5.82	104.97	113.70
2	AA	2385	C	N1-C1'-C2'	5.82	120.72	112.00
2	AA	2807	G	C2'-C3'-O3'	-5.82	104.97	113.70
34	BA	1498	U	N1-C1'-C2'	5.82	120.73	112.00
2	AA	390	A	C2'-C3'-O3'	-5.82	104.98	113.70
10	AK	79	ILE	N-CA-C	5.82	120.25	107.92
23	AX	36	VAL	N-CA-C	5.82	116.74	108.42
15	AP	16	ARG	N-CA-C	-5.81	98.42	110.80
6	AF	50	GLU	N-CA-C	-5.81	103.93	111.02
2	AA	1936	A	O4'-C1'-C2'	5.81	111.61	105.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	49	C	C4'-C3'-O3'	5.81	121.72	113.00
43	BK	111	ILE	N-CA-C	5.81	116.23	107.80
34	BA	863	U	C2'-C3'-O3'	-5.81	104.98	113.70
2	AA	2498	C	C4'-C3'-O3'	-5.81	104.29	113.00
2	AA	1206	G	C4'-C3'-C2'	-5.80	96.80	102.60
2	AA	2789	C	C2'-C3'-O3'	-5.80	104.99	113.70
2	AA	1668	A	N9-C1'-C2'	5.80	120.70	112.00
26	A2	14	VAL	N-CA-C	5.80	116.53	108.23
34	BA	372	C	C3'-C2'-O2'	5.80	123.31	114.60
2	AA	1253	A	C4'-C3'-O3'	-5.80	104.30	113.00
55	BW	52	ALA	N-CA-C	-5.80	104.15	111.11
25	A1	74	MET	N-CA-C	5.80	117.94	108.55
39	BG	26	CYS	CA-C-N	5.80	132.62	121.54
39	BG	26	CYS	C-N-CA	5.80	132.62	121.54
2	AA	2601	C	C3'-C2'-O2'	5.80	119.39	110.70
2	AA	2878	U	C2'-C3'-O3'	-5.80	105.01	113.70
4	AD	103	ILE	N-CA-C	5.80	117.70	108.89
34	BA	371	G	C4'-C3'-O3'	-5.80	104.30	113.00
39	BG	31	CYS	N-CA-C	-5.80	101.72	110.70
24	A0	80	PHE	N-CA-C	5.79	120.87	111.37
2	AA	984	A	C5'-C4'-O4'	-5.79	101.11	109.80
35	BB	53	G	C4'-C3'-C2'	-5.79	96.81	102.60
2	AA	2040	C	O4'-C4'-C3'	-5.79	98.21	104.00
2	AA	1477	A	N9-C1'-C2'	5.79	120.69	112.00
2	AA	2447	G	N9-C1'-C2'	5.79	122.68	114.00
16	AQ	14	ARG	N-CA-C	-5.79	104.94	112.23
28	A4	37	SER	N-CA-C	5.79	116.19	108.38
34	BA	661	G	C5'-C4'-C3'	-5.79	107.32	116.00
13	AN	87	ILE	N-CA-C	5.78	117.04	108.65
2	AA	2630	G	N9-C1'-C2'	5.78	120.67	112.00
2	AA	474	G	N9-C1'-C2'	5.78	120.67	112.00
6	AF	213	ALA	N-CA-C	-5.78	102.37	110.35
27	A3	14	ARG	N-CA-C	5.78	116.72	108.74
13	AN	83	ALA	N-CA-C	5.78	117.03	108.60
14	AO	92	ASP	N-CA-C	5.78	119.47	110.17
34	BA	224	C	C2'-C3'-O3'	-5.78	105.04	113.70
34	BA	279	A	C4'-C3'-O3'	5.78	118.06	109.40
35	BB	25	C	C2'-C3'-O3'	-5.77	105.04	113.70
35	BB	40	C	C5'-C4'-C3'	-5.77	107.34	116.00
5	AE	198	TYR	N-CA-C	5.77	117.79	107.80
17	AR	51	TRP	N-CA-C	5.77	123.09	110.80
34	BA	1288	A	C2'-C3'-O3'	-5.77	105.04	113.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	BF	161	GLU	N-CA-C	-5.77	104.36	111.75
2	AA	805	G	C4'-C3'-O3'	-5.77	104.34	113.00
4	AD	105	ALA	N-CA-C	5.77	122.56	109.81
43	BK	45	ILE	N-CA-C	5.77	116.72	108.93
2	AA	2532	G	N9-C1'-C2'	5.77	120.65	112.00
51	BS	63	GLY	N-CA-C	5.77	126.85	113.18
2	AA	470	A	C4'-C3'-O3'	-5.77	104.35	113.00
2	AA	2430	A	C2'-C3'-O3'	-5.76	105.05	113.70
2	AA	1229	G	C5'-C4'-C3'	5.76	124.64	116.00
34	BA	1418	A	C2'-C3'-O3'	-5.76	105.06	113.70
2	AA	1070	A	N9-C1'-C2'	5.76	120.64	112.00
34	BA	366	C	C2'-C3'-O3'	5.76	118.14	109.50
2	AA	2199	A	C4'-C3'-O3'	-5.76	104.36	113.00
34	BA	1280	A	C2'-C3'-O3'	-5.76	100.86	109.50
51	BS	76	GLN	N-CA-C	-5.76	104.00	111.02
2	AA	1704	G	C2'-C3'-O3'	-5.75	105.07	113.70
32	A8	53	ALA	N-CA-C	-5.75	98.55	110.80
34	BA	1330	U	C2'-C3'-O3'	-5.75	105.07	113.70
2	AA	2597	G	C4'-C3'-O3'	-5.75	104.37	113.00
2	AA	2701	C	C4'-C3'-O3'	-5.75	104.37	113.00
21	AV	36	ARG	N-CA-C	-5.75	100.87	109.15
5	AE	204	VAL	N-CA-C	-5.75	102.17	109.58
6	AF	46	TYR	CA-CB-CG	-5.75	103.55	113.90
34	BA	588	G	C2'-C3'-O3'	-5.75	105.08	113.70
47	BO	96	VAL	N-CA-C	-5.75	102.12	109.30
2	AA	2308	G	C4'-C3'-O3'	-5.75	104.38	113.00
2	AA	1022	G	C2'-C3'-O3'	5.74	118.12	109.50
35	BB	59	U	N1-C1'-C2'	5.74	120.61	112.00
2	AA	931	G	C5'-C4'-C3'	5.74	123.81	115.20
2	AA	2364	C	C5'-C4'-C3'	5.74	124.61	116.00
35	BB	15	G	O4'-C4'-C3'	-5.74	98.26	104.00
2	AA	265	A	C2'-C3'-O3'	5.74	118.11	109.50
7	AG	16	PRO	N-CA-C	5.74	124.29	112.47
12	AM	61	VAL	N-CA-C	5.73	121.26	109.34
46	BN	14	VAL	N-CA-C	5.73	121.26	109.34
2	AA	2862	G	C4'-C3'-O3'	-5.73	104.40	113.00
2	AA	1327	C	N1-C1'-C2'	5.73	120.59	112.00
2	AA	1542	G	C4'-C3'-O3'	5.73	121.59	113.00
37	BE	199	TYR	CA-C-N	5.73	132.28	121.97
37	BE	199	TYR	C-N-CA	5.73	132.28	121.97
34	BA	530	G	C4'-C3'-O3'	-5.73	104.41	113.00
12	AM	56	LYS	CA-C-N	-5.72	112.61	120.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	AM	56	LYS	C-N-CA	-5.72	112.61	120.28
27	A3	61	ALA	N-CA-C	5.72	118.10	109.23
40	BH	148	VAL	N-CA-C	-5.72	104.28	110.23
43	BK	66	GLY	N-CA-C	5.72	124.01	112.34
2	AA	90	U	C2'-C3'-O3'	-5.72	105.12	113.70
2	AA	1823	G	N9-C1'-C2'	-5.72	103.42	112.00
6	AF	61	PHE	N-CA-C	5.71	122.97	110.80
16	AQ	31	LYS	CA-C-N	-5.71	112.70	119.84
16	AQ	31	LYS	C-N-CA	-5.71	112.70	119.84
51	BS	19	ILE	N-CA-C	-5.71	98.26	106.55
53	BU	60	GLY	N-CA-C	-5.71	99.65	113.18
5	AE	49	THR	N-CA-C	-5.71	97.20	109.81
2	AA	794	G	C4'-C3'-O3'	-5.70	104.44	113.00
10	AK	97	GLN	N-CA-C	-5.70	104.43	111.33
2	AA	2503	A	C2'-C3'-O3'	-5.70	105.15	113.70
4	AD	81	GLU	N-CA-C	-5.70	95.76	107.67
5	AE	40	GLY	N-CA-C	5.70	118.92	110.60
35	BB	7	U	C3'-C2'-O2'	-5.70	106.05	114.60
35	BB	74	C	O4'-C4'-C3'	-5.70	98.30	104.00
2	AA	2566	A	C4'-C3'-O3'	-5.70	104.45	113.00
5	AE	308	VAL	CA-C-N	5.70	126.96	119.84
5	AE	308	VAL	C-N-CA	5.70	126.96	119.84
3	AC	116	THR	CA-C-N	5.70	126.96	119.84
3	AC	116	THR	C-N-CA	5.70	126.96	119.84
5	AE	224	GLY	N-CA-C	5.70	126.68	113.18
21	AV	51	LEU	N-CA-C	5.70	122.93	110.80
22	AW	15	GLU	N-CA-C	-5.70	104.76	110.97
25	A1	25	TRP	N-CA-C	5.69	118.58	110.10
27	A3	37	LEU	CA-C-N	5.69	132.22	121.97
27	A3	37	LEU	C-N-CA	5.69	132.22	121.97
2	AA	832	G	C2'-C3'-O3'	-5.69	105.16	113.70
11	AL	95	LYS	N-CA-C	-5.69	104.90	113.89
12	AM	90	LYS	N-CA-C	5.69	118.26	111.71
34	BA	1179	A	N9-C1'-C2'	5.69	120.54	112.00
2	AA	2399	G	N9-C1'-C2'	-5.69	103.46	112.00
5	AE	302	GLY	CA-C-N	5.69	126.95	119.84
5	AE	302	GLY	C-N-CA	5.69	126.95	119.84
45	BM	68	HIS	N-CA-C	-5.69	101.32	110.14
2	AA	2021	C	C4'-C3'-O3'	5.69	121.53	113.00
11	AL	60	VAL	CA-C-N	-5.69	115.67	122.44
11	AL	60	VAL	C-N-CA	-5.69	115.67	122.44
11	AL	94	ARG	N-CA-C	-5.69	107.34	114.56

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	A2	5	ILE	N-CA-C	5.69	121.17	109.34
35	BB	71	G	N9-C1'-C2'	5.69	120.53	112.00
5	AE	177	ALA	N-CA-C	-5.68	105.17	111.71
25	A1	19	LYS	N-CA-C	-5.68	105.08	111.28
2	AA	2003	G	C2'-C3'-O3'	-5.68	105.18	113.70
14	AO	72	ASN	N-CA-C	-5.68	105.45	112.38
34	BA	106	C	N1-C1'-C2'	-5.68	103.48	112.00
34	BA	1057	G	C2'-C3'-O3'	-5.68	105.18	113.70
34	BA	44	G	C2'-C3'-O3'	-5.68	105.18	113.70
34	BA	763	G	C4'-C3'-O3'	-5.68	104.48	113.00
2	AA	1103	A	C2'-C3'-O3'	-5.68	105.18	113.70
18	AS	67	ASP	N-CA-C	5.68	122.89	110.80
2	AA	983	A	C4'-C3'-C2'	-5.68	96.92	102.60
2	AA	332	A	C2'-C3'-O3'	5.67	118.01	109.50
11	AL	73	PRO	N-CA-C	5.67	117.62	110.70
25	A1	93	LYS	N-CA-C	5.67	117.89	108.20
35	BB	3	G	C3'-C2'-O2'	-5.67	102.20	110.70
2	AA	2406	U	N1-C1'-C2'	5.67	120.50	112.00
2	AA	2848	G	C2'-C3'-O3'	5.67	118.00	109.50
6	AF	26	VAL	N-CA-C	5.67	121.13	109.34
13	AN	96	THR	N-CA-C	5.67	122.87	110.80
17	AR	22	VAL	N-CA-CB	-5.67	105.80	112.32
23	AX	22	ALA	N-CA-C	-5.67	105.19	111.71
2	AA	704	G	C4'-C3'-O3'	-5.66	100.90	109.40
2	AA	2119	A	N9-C1'-C2'	5.66	122.50	114.00
6	AF	47	GLY	N-CA-C	5.66	121.33	111.14
2	AA	2679	A	C2'-C3'-O3'	-5.66	105.21	113.70
38	BF	67	THR	N-CA-C	-5.66	97.94	108.02
53	BU	29	PHE	N-CA-C	5.66	118.00	107.99
2	AA	2591	C	C4'-C3'-O3'	-5.66	104.52	113.00
34	BA	1123	A	N9-C1'-C2'	5.66	120.48	112.00
35	BB	24	G	C5'-C4'-C3'	-5.66	107.52	116.00
55	BW	65	LYS	N-CA-C	-5.66	104.12	111.02
2	AA	1673	U	C1'-O4'-C4'	-5.65	104.25	109.90
2	AA	2351	G	C2'-C3'-O3'	-5.65	105.22	113.70
5	AE	181	VAL	N-CA-C	-5.65	104.35	110.23
23	AX	11	SER	CA-C-N	5.65	125.32	119.05
23	AX	11	SER	C-N-CA	5.65	125.32	119.05
14	AO	142	LEU	N-CA-C	5.65	122.83	110.80
34	BA	702	A	C4'-C3'-O3'	-5.65	104.53	113.00
12	AM	25	GLN	N-CA-C	-5.65	105.04	111.14
30	A6	25	THR	N-CA-C	5.64	118.65	109.06

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
51	BS	78	GLY	N-CA-C	-5.64	99.80	113.18
2	AA	271(B)	G	N9-C1'-C2'	5.64	122.46	114.00
34	BA	7	G	N9-C1'-C2'	5.64	120.46	112.00
34	BA	1531	A	N9-C1'-C2'	5.64	120.46	112.00
34	BA	226	G	N9-C1'-C2'	-5.64	103.54	112.00
2	AA	544	C	C4'-C3'-O3'	-5.64	104.55	113.00
2	AA	2773	C	C4'-C3'-O3'	-5.64	104.54	113.00
12	AM	22	VAL	CB-CA-C	-5.63	104.76	111.97
34	BA	270	A	C5'-C4'-C3'	-5.63	107.55	116.00
5	AE	81	VAL	N-CA-C	5.63	121.06	109.34
15	AP	49	VAL	CA-C-N	-5.63	111.83	121.97
15	AP	49	VAL	C-N-CA	-5.63	111.83	121.97
16	AQ	25	ARG	CA-C-N	-5.63	112.30	120.29
16	AQ	25	ARG	C-N-CA	-5.63	112.30	120.29
48	BP	111	LYS	N-CA-C	5.63	118.14	111.33
2	AA	530	G	O4'-C4'-C3'	-5.62	100.47	106.10
2	AA	1544	C	O4'-C4'-C3'	-5.62	98.38	104.00
2	AA	2757	A	C3'-C2'-O2'	5.62	119.14	110.70
2	AA	1348	G	C4'-C3'-O3'	-5.62	104.57	113.00
5	AE	94	ARG	N-CA-C	-5.62	97.39	109.81
2	AA	800	A	N9-C1'-C2'	5.62	120.43	112.00
34	BA	785	G	C5'-C4'-C3'	-5.62	107.57	116.00
34	BA	813	U	N1-C1'-C2'	5.62	120.43	112.00
2	AA	196	A	C2'-C3'-O3'	5.62	117.92	109.50
34	BA	1466	C	C2'-C3'-O3'	-5.62	105.28	113.70
44	BL	88	TYR	N-CA-C	5.62	117.40	111.28
38	BF	50	ALA	N-CA-C	-5.61	105.04	112.34
2	AA	2118	U	N1-C1'-C2'	-5.61	103.58	112.00
2	AA	2641	G	C5'-C4'-C3'	5.61	124.42	116.00
2	AA	2318	G	N9-C1'-C2'	5.61	120.42	112.00
32	A8	48	PHE	N-CA-C	5.61	118.37	107.71
45	BM	42	THR	N-CA-C	-5.61	102.72	110.35
49	BQ	18	VAL	N-CA-C	5.61	121.01	109.34
2	AA	2372	G	C2'-C3'-O3'	-5.61	105.29	113.70
46	BN	16	SER	N-CA-C	5.61	117.59	109.07
48	BP	36	LYS	N-CA-C	5.61	117.08	110.97
2	AA	1154	G	C4'-C3'-O3'	-5.61	104.59	113.00
2	AA	1794	U	C2'-C3'-O3'	-5.61	105.29	113.70
5	AE	100	TRP	N-CA-C	5.61	119.84	109.24
35	BC	56	C	C4'-C3'-O3'	-5.61	104.59	113.00
24	A0	102	GLU	N-CA-C	5.61	118.21	109.52
2	AA	2323	G	N9-C1'-C2'	5.60	120.40	112.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	2725	A	N9-C1'-C2'	5.60	120.40	112.00
7	AG	83	PHE	N-CA-C	5.60	117.19	111.14
2	AA	119	A	N9-C1'-C2'	5.60	122.40	114.00
2	AA	403	U	O4'-C1'-C2'	5.60	111.40	105.80
2	AA	2645	G	C4'-C3'-O3'	-5.60	104.60	113.00
21	AV	33	ALA	O-C-N	5.60	127.31	123.11
48	BP	109	THR	N-CA-C	-5.60	104.56	111.33
2	AA	989	G	C2'-C3'-O3'	-5.60	105.31	113.70
34	BA	1526	G	C4'-C3'-O3'	-5.59	104.61	113.00
2	AA	461	C	C4'-C3'-O3'	-5.59	104.61	113.00
6	AF	144	PHE	N-CA-C	5.59	118.91	111.75
2	AA	1691	C	C5'-C4'-O4'	-5.59	101.42	109.80
25	A1	115	ASN	N-CA-CB	-5.59	101.89	110.16
8	AH	133	LYS	N-CA-C	-5.59	100.29	109.40
34	BA	52	G	C4'-C3'-O3'	-5.59	104.62	113.00
2	AA	1549	C	N1-C1'-C2'	-5.59	103.62	112.00
2	AA	142(A)	A	N9-C1'-C2'	5.58	120.37	112.00
25	A1	35	ALA	N-CA-C	-5.58	98.91	110.80
6	AF	223	LEU	N-CA-C	5.58	122.74	114.09
6	AF	234	VAL	N-CA-C	5.58	116.84	107.18
5	AE	76	PRO	CB-CA-C	5.58	117.73	110.92
34	BA	12	U	C2'-C3'-O3'	-5.58	105.33	113.70
34	BA	297	G	N9-C1'-C2'	5.58	120.37	112.00
34	BA	1192	C	O4'-C1'-C2'	-5.58	102.02	107.60
13	AN	22	ILE	N-CA-C	-5.58	97.74	109.34
39	BG	112	VAL	CB-CA-C	-5.58	104.91	111.94
53	BU	22	VAL	N-CA-C	5.58	119.94	113.42
2	AA	1263	U	N1-C1'-C2'	5.58	120.36	112.00
2	AA	2851	A	C2'-C3'-O3'	-5.58	105.34	113.70
2	AA	753	C	C2'-C3'-O3'	-5.57	105.34	113.70
2	AA	176	G	C2'-C3'-O3'	-5.57	105.35	113.70
11	AL	128	ILE	CB-CA-C	-5.57	104.57	111.70
21	AV	20	ALA	N-CA-C	5.57	118.31	109.24
5	AE	315	VAL	N-CA-C	5.56	120.91	109.34
14	AO	100	ALA	N-CA-C	-5.56	98.95	110.80
34	BA	721	G	N9-C1'-C2'	5.56	120.35	112.00
11	AL	41	ARG	N-CA-C	-5.56	105.22	111.28
34	BA	1386	G	C2'-C3'-O3'	-5.56	105.36	113.70
9	AJ	112	GLU	N-CA-C	-5.56	104.44	111.11
34	BA	340	U	C4'-C3'-O3'	-5.56	104.66	113.00
34	BA	532	A	N9-C1'-C2'	5.56	120.34	112.00
32	A8	9	MET	CB-CG-SD	5.56	129.37	112.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	270	A	N9-C1'-C2'	5.55	120.33	112.00
2	AA	2196	C	C2'-C3'-O3'	-5.55	105.37	113.70
2	AA	2456	C	N1-C1'-C2'	5.55	120.33	112.00
2	AA	2590	A	C4'-C3'-O3'	-5.55	104.67	113.00
2	AA	2687	U	N1-C1'-C2'	5.55	120.33	112.00
18	AS	96	ILE	N-CA-C	-5.55	100.66	108.27
28	A4	43	TRP	N-CA-C	5.55	118.30	110.14
2	AA	483	A	N9-C1'-C2'	5.55	120.33	112.00
2	AA	1937	A	N9-C1'-C2'	5.55	122.32	114.00
29	A5	34	PRO	N-CA-C	-5.55	101.04	112.47
2	AA	1206	G	C4'-C3'-O3'	5.55	121.32	113.00
17	AR	13	ILE	CA-C-N	5.55	135.34	121.80
17	AR	13	ILE	C-N-CA	5.55	135.34	121.80
2	AA	2264	C	C2'-C3'-O3'	-5.55	105.38	113.70
2	AA	2733	A	O4'-C4'-C3'	-5.55	98.45	104.00
34	BA	718	G	C2'-C3'-O3'	-5.55	105.38	113.70
24	A0	69	ASP	N-CA-C	5.54	120.31	112.93
2	AA	2361	A	C4'-C3'-O3'	-5.54	104.69	113.00
16	AQ	65	ASP	N-CA-C	-5.54	106.36	113.01
50	BR	7	GLU	N-CA-C	-5.54	104.26	111.02
2	AA	1525	G	C4'-C3'-O3'	-5.54	104.69	113.00
47	BO	37	CYS	CA-CB-SG	-5.54	101.66	114.40
2	AA	1709	U	C2'-C3'-O3'	-5.54	105.40	113.70
34	BA	249	U	C5'-C4'-C3'	5.53	124.30	116.00
34	BA	1480	G	C4'-C3'-O3'	-5.53	104.70	113.00
35	BB	72	C	C4'-C3'-C2'	5.53	108.13	102.60
34	BA	307	C	O4'-C1'-C2'	-5.53	102.07	107.60
34	BA	1470	G	C2'-C3'-O3'	-5.53	105.41	113.70
2	AA	209	C	C5'-C4'-C3'	-5.53	107.71	116.00
28	A4	31	ILE	N-CA-CB	-5.53	104.69	110.72
2	AA	801	G	C2'-C3'-O3'	5.53	117.79	109.50
8	AH	147	ILE	CB-CA-C	-5.53	104.90	111.97
40	BH	84	PHE	N-CA-C	-5.53	103.00	110.68
2	AA	790	C	OP2-P-O3'	-5.52	91.43	108.00
9	AI	112	GLU	N-CA-C	-5.52	104.48	111.11
2	AA	679	C	C2'-C3'-O3'	-5.52	105.42	113.70
34	BA	1091	U	O4'-C4'-C3'	-5.52	98.48	104.00
35	BB	45	G	C3'-C2'-O2'	-5.52	102.42	110.70
51	BS	4	ILE	N-CA-CB	-5.52	103.82	111.99
2	AA	2620	C	C1'-O4'-C4'	-5.52	104.38	109.90
35	BB	57	G	C2'-C3'-O3'	-5.52	105.42	113.70
34	BA	389	A	C2'-C3'-O3'	-5.52	105.42	113.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
51	BS	49	LEU	N-CA-C	5.52	117.49	108.55
2	AA	1559	G	C3'-C2'-O2'	5.52	118.98	110.70
30	A6	40	TYR	N-CA-C	5.52	122.55	110.80
2	AA	740	U	C3'-C2'-O2'	5.52	122.88	114.60
36	B1	59	A	C5'-C4'-C3'	5.51	124.27	116.00
2	AA	2238	G	O3'-P-O5'	-5.51	95.73	104.00
2	AA	2725	A	C4'-C3'-O3'	-5.51	104.73	113.00
30	A6	52	GLU	N-CA-C	5.51	120.14	113.41
37	BE	158	LEU	CA-C-N	5.51	126.73	119.84
37	BE	158	LEU	C-N-CA	5.51	126.73	119.84
2	AA	271(C)	U	C4'-C3'-O3'	-5.51	104.73	113.00
2	AA	1143	A	N9-C1'-C2'	5.51	120.27	112.00
2	AA	1603	A	C4'-C3'-O3'	-5.51	104.73	113.00
6	AF	67	GLN	N-CA-C	-5.51	99.06	110.80
35	BB	10	G	N9-C1'-C2'	-5.51	103.74	112.00
4	AD	132	GLU	N-CA-C	-5.51	99.07	110.80
18	AS	106	ILE	N-CA-C	5.51	116.03	107.99
2	AA	1272	A	C4'-C3'-O3'	-5.50	104.74	113.00
2	AA	1407	C	C4'-C3'-O3'	-5.50	104.75	113.00
6	AF	200	PRO	N-CA-C	5.50	123.81	112.47
10	AK	17	GLU	N-CA-C	5.50	118.20	108.24
34	BA	1397	C	C4'-C3'-O3'	-5.50	104.74	113.00
35	BB	38	A	N9-C1'-C2'	5.50	120.25	112.00
35	BB	67	A	C2'-C3'-O3'	-5.50	105.44	113.70
47	BO	86	ARG	N-CA-C	-5.50	105.93	113.30
21	AV	88	TYR	N-CA-C	5.50	119.03	110.17
50	BR	37	ASN	N-CA-C	5.50	117.73	111.02
2	AA	849	A	N9-C1'-C2'	5.50	120.25	112.00
39	BG	146	ILE	CB-CA-C	-5.50	102.30	110.33
34	BA	388	G	C2'-C3'-O3'	5.50	121.95	113.70
34	BA	841	U	C2'-C3'-O3'	-5.50	105.45	113.70
2	AA	2281	C	N1-C1'-C2'	5.50	120.24	112.00
34	BA	793	U	C2'-C3'-O3'	5.50	117.74	109.50
2	AA	1851	U	C2'-C3'-O3'	-5.49	105.46	113.70
14	AO	136	ALA	N-CA-C	5.49	119.14	111.56
34	BA	1392	G	N9-C1'-C2'	5.49	120.24	112.00
2	AA	1416	G	N9-C1'-C2'	5.49	120.24	112.00
54	BV	49	ILE	CB-CA-C	-5.49	102.36	110.82
16	AQ	99	GLU	N-CA-C	-5.49	100.45	109.40
2	AA	262	A	C5'-C4'-C3'	-5.49	107.77	116.00
2	AA	1482	U	C2'-C3'-O3'	5.49	121.93	113.70
2	AA	792	G	C1'-C2'-O2'	-5.48	103.57	111.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	1104	C	C5'-C4'-C3'	5.48	124.23	116.00
2	AA	2862	G	N9-C1'-C2'	5.48	120.22	112.00
34	BA	1237	C	N1-C1'-C2'	5.48	120.22	112.00
45	BM	38	ILE	CA-C-N	5.48	126.69	119.84
45	BM	38	ILE	C-N-CA	5.48	126.69	119.84
17	AR	9	CYS	CA-CB-SG	5.48	127.00	114.40
34	BA	1064	G	N1-C2-N3	-5.48	107.47	123.90
35	BC	58	A	C2'-C3'-O3'	5.48	121.92	113.70
27	A3	5	LYS	N-CA-C	5.48	118.61	109.96
2	AA	1958	C	C5'-C4'-C3'	-5.47	107.79	116.00
34	BA	714	G	C4'-C3'-O3'	-5.47	104.79	113.00
54	BV	32	LYS	N-CA-C	5.47	119.05	111.55
10	AK	30	LEU	CA-C-N	-5.47	112.03	121.66
10	AK	30	LEU	C-N-CA	-5.47	112.03	121.66
49	BQ	52	GLN	N-CA-C	-5.47	106.64	113.15
10	AK	5	PHE	N-CA-C	5.47	118.41	110.42
34	BA	624	C	C2'-C3'-O3'	-5.47	105.49	113.70
18	AS	70	TYR	N-CA-C	-5.47	101.56	108.45
22	AW	42	ASN	CA-C-N	-5.47	113.00	119.84
22	AW	42	ASN	C-N-CA	-5.47	113.00	119.84
34	BA	752	G	N9-C1'-C2'	5.47	122.20	114.00
34	BA	1053	G	C4'-C3'-O3'	-5.47	104.80	113.00
2	AA	2488	A	C3'-C2'-O2'	5.46	118.90	110.70
34	BA	1422	G	N9-C1'-C2'	-5.46	103.80	112.00
2	AA	747	U	C4'-C3'-O3'	-5.46	104.81	113.00
34	BA	1541	U	C5'-C4'-O4'	5.46	117.99	109.80
37	BE	40	HIS	N-CA-C	-5.46	101.08	109.76
40	BH	18	ARG	N-CA-C	-5.46	100.00	108.90
34	BA	586	C	N1-C1'-C2'	-5.46	103.81	112.00
5	AE	206	LYS	N-CA-C	-5.46	99.17	110.80
19	AT	72	ASP	N-CA-C	5.46	118.60	110.52
25	A1	70	ARG	N-CA-C	-5.46	105.02	110.97
34	BA	918	A	C2'-C3'-O3'	-5.46	105.52	113.70
40	BH	65	ASN	N-CA-C	5.46	118.92	111.39
2	AA	2356	C	C2'-C3'-O3'	-5.45	105.52	113.70
2	AA	557	U	C4'-C3'-O3'	-5.45	104.82	113.00
37	BE	186	ALA	N-CA-C	5.45	116.42	108.14
2	AA	1324	G	N9-C1'-C2'	5.45	122.17	114.00
34	BA	1534	A	C4'-C3'-O3'	5.45	121.17	113.00
37	BE	139	LYS	CA-C-N	-5.45	111.62	120.72
37	BE	139	LYS	C-N-CA	-5.45	111.62	120.72
53	BU	83	GLU	N-CA-C	5.45	122.40	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	12	U	C3'-C2'-O2'	5.45	118.87	110.70
2	AA	2270	G	C2'-C3'-O3'	-5.45	105.53	113.70
35	BB	58	A	C2'-C3'-O3'	5.45	121.87	113.70
46	BN	25	TYR	N-CA-C	-5.45	104.89	112.30
2	AA	1266	G	C5'-C4'-C3'	5.44	124.16	116.00
35	BB	63	C	C4'-C3'-O3'	-5.44	104.84	113.00
2	AA	943	U	N1-C1'-C2'	-5.44	103.84	112.00
34	BA	226	G	C2'-C3'-O3'	-5.44	105.54	113.70
8	AH	86	LEU	N-CA-C	5.44	118.10	109.24
2	AA	1685	C	C4'-C3'-O3'	-5.43	104.85	113.00
2	AA	1999	C	C2'-C3'-O3'	-5.43	105.55	113.70
2	AA	2115	G	C4'-C3'-O3'	5.43	121.15	113.00
4	AD	69	ASP	N-CA-C	5.43	116.82	110.41
2	AA	1024	G	C3'-C2'-O2'	5.43	118.85	110.70
2	AA	2373	G	C4'-C3'-O3'	-5.43	104.85	113.00
34	BA	190(D)	U	N1-C1'-C2'	5.43	120.15	112.00
2	AA	1947	C	C5'-C4'-C3'	-5.43	107.86	116.00
2	AA	289	A	N9-C1'-C2'	5.43	120.14	112.00
5	AE	75	THR	CA-C-N	-5.43	114.79	120.38
5	AE	75	THR	C-N-CA	-5.43	114.79	120.38
2	AA	1024	G	N9-C1'-C2'	-5.43	103.86	112.00
29	A5	52	TYR	N-CA-C	-5.43	99.24	110.80
41	BI	98	LEU	N-CA-C	5.43	118.21	108.17
2	AA	1952	A	C4'-C3'-O3'	-5.42	104.87	113.00
34	BA	420	U	C2'-C3'-O3'	-5.42	105.57	113.70
2	AA	210	C	C4'-C3'-O3'	-5.42	104.87	113.00
2	AA	2875	C	C4'-C3'-O3'	-5.42	104.87	113.00
20	AU	15	PRO	N-CA-C	5.42	123.64	112.47
7	AG	77	ASP	N-CA-CB	-5.42	101.33	110.49
40	BH	152	ARG	N-CA-C	5.42	119.61	112.89
2	AA	2665	A	N9-C1'-C2'	5.42	120.13	112.00
2	AA	326	G	C4'-C3'-O3'	-5.42	104.87	113.00
5	AE	238	LEU	N-CA-C	5.42	119.41	111.34
19	AT	54	THR	N-CA-C	5.42	117.32	108.76
2	AA	1126	A	C4'-C3'-O3'	-5.41	104.88	113.00
34	BA	1350	A	C5'-C4'-C3'	-5.41	107.88	116.00
2	AA	592	G	C4'-C3'-O3'	-5.41	104.88	113.00
6	AF	84	VAL	N-CA-C	5.41	120.59	109.34
37	BE	41	ILE	N-CA-C	5.41	115.65	107.75
38	BF	88	ARG	N-CA-C	-5.41	104.83	111.75
2	AA	1188	U	C4'-C3'-O3'	-5.41	104.89	113.00
13	AN	5	GLU	N-CA-C	5.41	119.74	113.20

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	669	G	C2'-C3'-O3'	-5.41	105.59	113.70
8	AH	32	LEU	N-CA-C	5.41	117.90	109.52
35	BB	61	C	N1-C1'-C2'	5.41	120.11	112.00
35	BC	61	C	C2'-C3'-O3'	-5.41	105.59	113.70
47	BO	96	VAL	CB-CA-C	-5.41	103.28	111.33
42	BJ	13	GLN	CA-C-N	5.40	126.59	119.84
42	BJ	13	GLN	C-N-CA	5.40	126.59	119.84
7	AG	18	ILE	N-CA-C	5.40	120.57	109.34
4	AD	190	THR	N-CA-C	-5.40	100.22	109.24
5	AE	268	LEU	N-CA-C	-5.40	100.90	109.59
32	A8	48	PHE	CB-CA-C	-5.40	103.82	111.76
2	AA	1329	U	N1-C1'-C2'	5.40	120.10	112.00
2	AA	1377	G	C5'-C4'-C3'	-5.40	107.91	116.00
8	AH	145	ALA	N-CA-C	-5.40	104.80	111.33
2	AA	2071	A	C2'-C3'-O3'	-5.40	105.61	113.70
2	AA	2844	G	C2'-C3'-O3'	-5.40	105.61	113.70
3	AC	161	ILE	N-CA-C	-5.40	99.78	107.77
7	AG	138	GLY	N-CA-C	-5.40	105.86	112.77
25	A1	67	ALA	N-CA-C	-5.40	102.52	111.37
2	AA	1983	C	C5'-C4'-C3'	-5.39	107.91	116.00
2	AA	1989	G	C1'-C2'-O2'	5.39	116.49	108.40
34	BA	913	A	C2'-C3'-O3'	5.39	117.59	109.50
34	BA	1482	G	N9-C1'-C2'	-5.39	103.91	112.00
2	AA	973	A	N9-C1'-C2'	5.39	120.09	112.00
2	AA	1901	A	C4'-C3'-O3'	-5.39	104.91	113.00
2	AA	2042	A	O4'-C4'-C3'	-5.39	98.61	104.00
2	AA	2856	C	C2'-C3'-O3'	-5.39	105.61	113.70
4	AD	227	VAL	CB-CA-C	-5.39	102.45	111.29
2	AA	1014	U	C2'-C3'-O3'	-5.39	105.61	113.70
2	AA	2324	C	C4'-C3'-O3'	-5.39	101.32	109.40
25	A1	63	GLN	N-CA-C	5.39	117.01	111.03
2	AA	1566	A	C2'-C3'-O3'	5.39	117.58	109.50
2	AA	2196	C	N1-C1'-C2'	5.39	120.08	112.00
5	AE	239	GLY	N-CA-C	5.38	123.32	112.34
2	AA	1476	C	C5'-C4'-C3'	5.38	124.08	116.00
2	AA	1675	C	C4'-C3'-O3'	-5.38	104.93	113.00
2	AA	2197	U	C2'-C3'-O3'	-5.38	105.63	113.70
5	AE	194	ARG	N-CA-C	5.38	122.25	110.80
34	BA	792	A	C1'-C2'-O2'	-5.38	103.74	111.80
2	AA	575	A	C3'-C2'-O2'	-5.37	102.64	110.70
2	AA	1699	G	C3'-C2'-O2'	-5.37	106.54	114.60
2	AA	2756	U	C4'-C3'-O3'	-5.37	101.34	109.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	AT	71	ASP	CB-CA-C	-5.37	108.70	116.54
2	AA	791	C	C2'-C3'-O3'	-5.37	105.64	113.70
2	AA	1900	A	C4'-C3'-O3'	-5.37	104.94	113.00
2	AA	2732	G	C4'-C3'-O3'	-5.37	104.94	113.00
34	BA	283	C	C2'-C3'-O3'	-5.37	105.64	113.70
6	AF	25	PRO	N-CA-C	5.37	123.53	112.47
6	AF	219	ASN	N-CA-C	5.37	115.45	107.88
48	BP	117	VAL	N-CA-C	5.37	120.51	109.34
34	BA	284	G	C2'-C3'-O3'	-5.37	105.65	113.70
46	BN	119	CYS	N-CA-C	5.37	116.18	107.32
52	BT	59	ILE	CB-CA-C	-5.37	101.23	110.30
34	BA	363	A	C3'-C2'-O2'	5.37	118.75	110.70
2	AA	2195	C	N1-C1'-C2'	5.37	120.05	112.00
2	AA	2686	G	C5'-C4'-C3'	-5.37	107.95	116.00
43	BK	25	ASP	N-CA-C	5.37	117.71	109.07
2	AA	1658	C	N1-C1'-C2'	5.36	120.05	112.00
40	BH	20	GLN	N-CA-C	5.36	117.97	109.50
2	AA	2584	U	N1-C1'-C2'	-5.36	103.96	112.00
34	BA	644	G	N9-C1'-C2'	-5.36	103.96	112.00
2	AA	587	C	C2'-C3'-O3'	5.36	117.54	109.50
2	AA	1567	A	C2'-C3'-O3'	-5.36	105.66	113.70
39	BG	116	GLN	N-CA-C	-5.36	104.68	111.11
48	BP	23	TYR	N-CA-C	-5.36	101.97	109.96
35	BB	42	G	C2'-C3'-O3'	5.36	121.74	113.70
2	AA	101	G	N9-C1'-C2'	5.36	120.03	112.00
2	AA	722	A	C3'-C2'-O2'	5.36	118.73	110.70
3	AC	171	ILE	N-CA-C	-5.36	101.68	109.29
4	AD	91	ALA	CA-C-N	-5.36	113.84	121.50
4	AD	91	ALA	C-N-CA	-5.36	113.84	121.50
43	BK	20	TYR	N-CA-C	5.35	118.97	111.90
27	A3	71	ASN	N-CA-C	-5.35	101.56	109.86
34	BA	158	G	N9-C1'-C2'	-5.35	103.97	112.00
35	BB	52	U	C5'-C4'-C3'	-5.35	107.97	116.00
2	AA	945	A	C5'-C4'-C3'	5.35	124.02	116.00
26	A2	68	LYS	N-CA-C	5.35	118.07	108.17
35	BC	59	U	O4'-C1'-C2'	-5.35	102.25	107.60
2	AA	704	G	N9-C1'-C2'	5.35	122.02	114.00
2	AA	1815	A	N9-C1'-C2'	5.35	120.02	112.00
34	BA	908	A	C2'-C3'-O3'	-5.35	105.68	113.70
35	BB	3	G	C2'-C3'-O3'	-5.35	105.68	113.70
35	BB	62	A	O4'-C4'-C3'	-5.35	98.65	104.00
2	AA	795	C	C2'-C3'-O3'	-5.34	105.68	113.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	AQ	19	ASP	N-CA-C	-5.34	99.42	110.80
22	AW	28	LEU	N-CA-C	-5.34	104.70	111.11
41	BI	72	VAL	CB-CA-C	-5.34	102.53	111.29
43	BK	56	LYS	CA-C-N	5.34	126.52	119.84
43	BK	56	LYS	C-N-CA	5.34	126.52	119.84
34	BA	457	C	N1-C1'-C2'	-5.34	103.99	112.00
41	BI	19	LEU	N-CA-C	-5.34	102.56	111.37
2	AA	747	U	C2'-C3'-O3'	-5.34	105.70	113.70
36	B1	48	A	C4'-C3'-O3'	-5.34	105.00	113.00
53	BU	39	VAL	CB-CA-C	-5.34	105.41	111.55
2	AA	1743	G	C4'-C3'-O3'	-5.33	105.00	113.00
8	AH	136	ASP	N-CA-C	5.33	117.87	108.75
24	A0	36	THR	N-CA-C	-5.33	99.44	110.80
2	AA	998	C	C4'-C3'-O3'	-5.33	105.00	113.00
21	AV	46	GLN	N-CA-C	5.33	122.15	110.80
34	BA	648	A	C2'-C3'-O3'	-5.33	105.71	113.70
2	AA	698	C	C4'-C3'-O3'	-5.33	105.01	113.00
2	AA	1642	G	N9-C1'-C2'	-5.33	104.01	112.00
34	BA	633	G	C5'-C4'-C3'	-5.33	108.01	116.00
35	BB	41	U	N1-C1'-C2'	5.33	119.99	112.00
2	AA	206	U	C5'-C4'-C3'	-5.32	108.01	116.00
2	AA	247	G	N9-C1'-C2'	5.32	119.98	112.00
2	AA	2602	A	C1'-C2'-O2'	-5.32	103.81	111.80
2	AA	2649	U	C3'-C2'-O2'	5.32	118.69	110.70
15	AP	116	HIS	CA-CB-CG	5.32	119.12	113.80
17	AR	13	ILE	N-CA-CB	5.32	120.01	111.23
4	AD	232	VAL	O-C-N	5.32	127.40	121.97
2	AA	240	G	C4'-C3'-O3'	-5.32	105.02	113.00
2	AA	846	C	C1'-C2'-O2'	-5.32	103.82	111.80
2	AA	1346	G	C2'-C3'-O3'	-5.32	105.72	113.70
2	AA	2459	A	C2'-C3'-O3'	-5.32	105.72	113.70
2	AA	2712	U	C2'-C3'-O3'	5.32	117.48	109.50
24	A0	55	ALA	N-CA-C	-5.32	104.89	111.33
29	A5	47	PRO	N-CA-C	-5.32	101.52	112.47
2	AA	2294	C	C2'-C3'-O3'	-5.32	105.73	113.70
2	AA	2718	G	C2'-C3'-O3'	-5.32	105.73	113.70
23	AX	11	SER	N-CA-C	5.32	121.56	109.81
40	BH	133	TYR	N-CA-C	5.32	116.88	111.14
2	AA	2286	A	C2'-C3'-O3'	5.31	121.67	113.70
2	AA	2287	A	C1'-C2'-O2'	-5.31	100.43	108.40
3	AC	30	LYS	N-CA-C	-5.31	105.39	111.07
16	AQ	26	LEU	CA-CB-CG	-5.31	97.70	116.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	AT	55	GLN	N-CA-C	5.31	117.15	109.07
34	BA	427	U	N1-C1'-C2'	5.31	119.97	112.00
34	BA	679	C	C5'-C4'-C3'	-5.31	108.03	116.00
2	AA	516	C	C4'-C3'-O3'	-5.31	105.04	113.00
10	AK	63	ALA	N-CA-C	5.31	116.76	110.97
12	AM	45	VAL	N-CA-C	5.31	115.82	108.23
34	BA	859	A	C2'-C3'-O3'	-5.31	105.73	113.70
34	BA	1499	A	C4'-C3'-O3'	-5.31	105.04	113.00
42	BJ	83	ALA	N-CA-C	5.31	117.14	109.07
34	BA	1505	G	C2'-C3'-O3'	5.31	121.66	113.70
38	BF	58	GLU	N-CA-C	5.31	117.93	109.65
2	AA	1011	G	C1'-C2'-O2'	-5.30	103.84	111.80
11	AL	72	THR	CA-C-N	5.30	125.84	120.38
11	AL	72	THR	C-N-CA	5.30	125.84	120.38
34	BA	895	G	C4'-C3'-O3'	-5.30	105.04	113.00
2	AA	448	U	N1-C1'-C2'	5.30	119.95	112.00
2	AA	1608	A	O4'-C4'-C3'	5.30	109.30	104.00
2	AA	2517	C	N1-C1'-C2'	5.30	119.95	112.00
36	B1	48	A	C3'-C2'-O2'	5.30	118.65	110.70
2	AA	1342	A	C2'-C3'-O3'	-5.30	105.75	113.70
16	AQ	31	LYS	N-CA-C	5.30	121.52	109.81
34	BA	1347	G	C1'-C2'-O2'	-5.30	103.85	111.80
2	AA	2640	G	C5'-C4'-C3'	-5.30	108.05	116.00
2	AA	1667	G	N9-C1'-C2'	5.30	121.94	114.00
2	AA	2315	G	C5'-C4'-C3'	-5.30	108.05	116.00
2	AA	2485	G	N9-C1'-C2'	5.30	119.94	112.00
12	AM	19	MET	CA-CB-CG	-5.30	103.51	114.10
17	AR	36	CYS	N-CA-C	-5.30	102.69	111.37
35	BB	40	C	N1-C1'-C2'	5.30	119.95	112.00
26	A2	16	GLU	N-CA-C	-5.29	108.58	114.62
2	AA	1142	U	O4'-C4'-C3'	-5.29	98.71	104.00
2	AA	1235	G	C4'-C3'-O3'	-5.29	105.06	113.00
2	AA	1634	A	C3'-C2'-O2'	5.29	118.64	110.70
2	AA	2420	C	N1-C1'-C2'	-5.29	104.06	112.00
2	AA	2731	G	C2'-C3'-O3'	-5.29	105.76	113.70
2	AA	296	C	O4'-C4'-C3'	-5.29	98.71	104.00
2	AA	1991	U	C4'-C3'-C2'	-5.29	97.31	102.60
34	BA	243	A	N9-C1'-C2'	5.29	121.94	114.00
38	BF	141	VAL	CB-CA-C	-5.29	105.19	111.81
49	BQ	10	ALA	N-CA-C	5.29	119.70	112.88
2	AA	2121	G	O4'-C4'-C3'	-5.29	98.71	104.00
6	AF	165	ASP	N-CA-C	-5.29	104.57	111.02

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	661	C	C2'-C3'-O3'	-5.28	105.77	113.70
2	AA	1164	G	C2'-C3'-O3'	-5.28	105.78	113.70
2	AA	2091	U	C1'-C2'-O2'	5.28	116.33	108.40
4	AD	98	GLY	N-CA-C	-5.28	107.38	114.25
2	AA	1828	G	O4'-C1'-C2'	5.28	111.08	105.80
2	AA	944	G	C2'-C3'-O3'	5.28	121.62	113.70
2	AA	1181	C	C2'-C3'-O3'	5.28	117.42	109.50
27	A3	41	ARG	N-CA-C	-5.28	96.44	107.37
2	AA	1198	U	N1-C1'-C2'	5.28	119.92	112.00
2	AA	1179	C	O4'-C4'-C3'	-5.28	100.82	106.10
15	AP	123	ILE	CA-C-N	5.28	131.37	123.24
15	AP	123	ILE	C-N-CA	5.28	131.37	123.24
8	AH	160	GLY	CA-C-N	-5.28	113.80	121.71
8	AH	160	GLY	C-N-CA	-5.28	113.80	121.71
18	AS	23	LEU	N-CA-C	5.27	117.83	111.40
34	BA	771	G	N9-C1'-C2'	5.27	119.91	112.00
2	AA	442	G	O4'-C1'-C2'	5.27	111.07	105.80
2	AA	282	A	O4'-C1'-C2'	-5.27	102.33	107.60
2	AA	1908	C	C2'-C3'-O3'	-5.27	105.80	113.70
2	AA	2067	G	N9-C1'-C2'	5.27	119.90	112.00
6	AF	54	LEU	N-CA-CB	-5.27	102.20	111.42
21	AV	158	CYS	N-CA-C	5.27	117.92	108.17
35	BB	14	A	C1'-C2'-O2'	-5.27	100.50	108.40
40	BH	68	GLU	N-CA-C	5.27	117.32	107.99
2	AA	976	C	C2'-C3'-O3'	-5.27	105.80	113.70
9	AJ	37	VAL	N-CA-C	5.27	120.29	109.34
2	AA	790	C	OP1-P-O3'	5.26	123.79	108.00
6	AF	58	ALA	N-CA-C	5.26	122.01	110.80
2	AA	688	U	N1-C1'-C2'	5.26	119.89	112.00
2	AA	1996	C	C4'-C3'-O3'	5.26	120.89	113.00
27	A3	53	MET	N-CA-C	5.26	122.01	110.80
2	AA	979	G	N9-C1'-C2'	-5.26	104.11	112.00
2	AA	1188	U	C5'-C4'-C3'	-5.26	108.11	116.00
2	AA	1618	A	C2'-C3'-O3'	5.26	121.59	113.70
4	AD	79	THR	O-C-N	5.26	128.78	123.26
34	BA	49	U	C4'-C3'-O3'	-5.26	105.11	113.00
45	BM	48	THR	CA-C-N	-5.26	116.25	123.46
45	BM	48	THR	C-N-CA	-5.26	116.25	123.46
2	AA	759	G	N9-C1'-C2'	5.26	119.89	112.00
2	AA	1653	G	N9-C1'-C2'	5.26	119.89	112.00
2	AA	2439	A	N9-C1'-C2'	5.26	121.89	114.00
4	AD	65	ASP	N-CA-C	5.26	118.11	110.17

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BB	40	C	O3'-P-O5'	-5.26	96.11	104.00
5	AE	307	LEU	N-CA-C	5.26	118.29	110.14
2	AA	2091	U	C3'-C2'-O2'	5.26	118.59	110.70
10	AK	79	ILE	CA-C-N	5.26	126.41	119.84
10	AK	79	ILE	C-N-CA	5.26	126.41	119.84
26	A2	73	LYS	N-CA-C	5.26	118.79	109.96
6	AF	240	LEU	N-CA-C	-5.25	105.51	112.34
21	AV	35	ASP	N-CA-C	5.25	121.99	110.80
2	AA	2478	A	N9-C1'-C2'	-5.25	104.12	112.00
37	BE	94	ASN	N-CA-C	-5.25	106.02	112.90
2	AA	1617	C	C2'-C3'-O3'	-5.25	105.83	113.70
1	AB	118	G	N9-C1'-C2'	-5.25	104.13	112.00
2	AA	1635	G	C2'-C3'-O3'	5.25	121.57	113.70
2	AA	1971	A	N9-C1'-C2'	-5.25	104.13	112.00
34	BA	384	G	C5'-C4'-C3'	5.25	123.87	116.00
2	AA	1453	A	N9-C1'-C2'	5.24	119.87	112.00
2	AA	2777	G	O4'-C1'-N9	-5.24	100.64	108.50
34	BA	1212	U	C4'-C3'-O3'	-5.24	105.13	113.00
26	A2	37	ALA	N-CA-C	-5.24	100.36	108.90
2	AA	1698	A	C5'-C4'-O4'	-5.24	101.94	109.80
15	AP	153	PRO	CA-N-CD	-5.24	104.66	112.00
2	AA	294	A	O4'-C1'-C2'	-5.24	102.36	107.60
34	BA	748	C	O4'-C1'-C2'	-5.24	102.36	107.60
2	AA	2726	U	O4'-C4'-C3'	-5.24	100.86	106.10
34	BA	1199	U	C2'-C3'-O3'	-5.24	105.85	113.70
2	AA	2522	U	N1-C1'-C2'	5.23	119.85	112.00
6	AF	83	ALA	N-CA-C	-5.23	105.11	112.12
6	AF	152	GLU	N-CA-C	-5.23	105.58	111.28
4	AD	156	ALA	N-CA-C	-5.23	99.66	110.80
47	BO	37	CYS	CA-C-N	5.23	129.45	120.72
47	BO	37	CYS	C-N-CA	5.23	129.45	120.72
2	AA	27	G	C2'-C3'-O3'	-5.23	105.86	113.70
2	AA	1620	G	C4'-C3'-O3'	-5.23	105.16	113.00
43	BK	33	GLU	N-CA-C	-5.23	102.80	111.37
6	AF	56	THR	CA-C-N	5.22	126.37	119.84
6	AF	56	THR	C-N-CA	5.22	126.37	119.84
6	AF	88	SER	N-CA-C	-5.22	99.67	110.80
36	B1	66	G	N9-C1'-C2'	-5.22	104.16	112.00
43	BK	93	VAL	CB-CA-C	-5.22	104.00	111.31
2	AA	2559	C	C4'-C3'-O3'	-5.22	105.17	113.00
13	AN	63	VAL	N-CA-CB	-5.22	106.11	112.33
49	BQ	40	CYS	N-CA-C	-5.22	103.14	110.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	1130	U	C3'-C2'-O2'	5.22	118.53	110.70
8	AH	147	ILE	N-CA-CB	5.22	116.66	110.55
15	AP	104	PRO	N-CA-C	5.22	123.22	112.47
2	AA	1252	G	C4'-C3'-O3'	-5.22	105.18	113.00
2	AA	2224	G	C4'-C3'-O3'	-5.22	105.18	113.00
17	AR	4	ARG	CA-C-N	5.22	131.50	121.54
17	AR	4	ARG	C-N-CA	5.22	131.50	121.54
35	BB	62	A	C4'-C3'-O3'	-5.22	105.17	113.00
8	AH	91	VAL	N-CA-C	-5.21	98.49	109.34
34	BA	365	U	N1-C1'-C2'	5.21	119.82	112.00
34	BA	897	C	C3'-C2'-O2'	-5.21	102.88	110.70
4	AD	230	ASN	N-CA-C	-5.21	98.53	108.17
34	BA	199	G	C5'-C4'-C3'	-5.21	108.18	116.00
34	BA	1432	G	C3'-C2'-O2'	5.21	118.52	110.70
2	AA	1939	U	C4'-C3'-O3'	-5.21	105.19	113.00
2	AA	1994	C	C1'-C2'-O2'	5.21	116.22	108.40
2	AA	1935	G	C4'-C3'-O3'	-5.21	105.19	113.00
2	AA	2491	U	C2'-C3'-O3'	-5.21	105.89	113.70
55	BW	29	LYS	N-CA-C	5.21	116.64	111.07
34	BA	1185	G	N9-C1'-C2'	-5.21	104.19	112.00
39	BG	13	ARG	N-CA-C	5.21	121.89	110.80
52	BT	46	ASP	CA-C-N	5.21	126.35	119.84
52	BT	46	ASP	C-N-CA	5.21	126.35	119.84
2	AA	2363	C	C4'-C3'-O3'	-5.21	105.19	113.00
2	AA	2532	G	C4'-C3'-O3'	-5.20	105.19	113.00
5	AE	242	ASN	N-CA-C	5.20	121.31	109.81
24	A0	109	ALA	N-CA-C	5.20	117.15	109.50
33	A9	35	ARG	N-CA-C	5.20	116.87	108.34
37	BE	42	ILE	N-CA-C	5.20	120.16	109.34
2	AA	2850	A	C2'-C3'-O3'	-5.20	105.90	113.70
15	AP	123	ILE	O-C-N	5.20	128.17	122.76
24	A0	106	GLY	N-CA-C	-5.20	100.86	113.18
42	BJ	31	MET	N-CA-C	5.20	121.88	110.80
16	AQ	43	VAL	N-CA-C	-5.20	100.38	108.44
28	A4	57	ASP	N-CA-C	5.20	117.58	109.52
34	BA	1305	G	N9-C1'-C2'	5.20	119.80	112.00
39	BG	39	PRO	CA-C-N	5.20	126.34	119.84
39	BG	39	PRO	C-N-CA	5.20	126.34	119.84
43	BK	20	TYR	N-CA-CB	-5.20	104.23	112.08
2	AA	569	U	C1'-C2'-O2'	5.20	116.19	108.40
34	BA	1395	C	C2'-C3'-O3'	-5.20	105.91	113.70
40	BH	110	LEU	N-CA-C	5.20	117.69	111.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	2515	C	N1-C1'-C2'	5.19	119.79	112.00
2	AA	2665	A	C5'-C4'-C3'	-5.19	108.21	116.00
4	AD	198	GLY	N-CA-C	-5.19	100.88	113.18
2	AA	1008	C	N1-C1'-C2'	5.19	119.78	112.00
2	AA	1059	G	N9-C1'-C2'	-5.19	104.21	112.00
34	BA	352	C	C4'-C3'-O3'	-5.19	105.22	113.00
34	BA	815	A	N9-C1'-C2'	5.19	119.79	112.00
47	BO	18	VAL	CA-C-N	5.19	131.46	121.54
47	BO	18	VAL	C-N-CA	5.19	131.46	121.54
2	AA	935	C	C4'-C3'-O3'	-5.19	105.22	113.00
2	AA	2256	G	C4'-C3'-O3'	-5.19	105.22	113.00
47	BO	42	THR	CA-C-N	-5.19	115.32	122.69
47	BO	42	THR	C-N-CA	-5.19	115.32	122.69
2	AA	1328	G	C1'-C2'-O2'	5.19	116.18	108.40
2	AA	1966	A	C1'-C2'-O2'	5.19	116.18	108.40
8	AH	27	GLY	CA-C-N	5.19	126.32	119.84
8	AH	27	GLY	C-N-CA	5.19	126.32	119.84
35	BB	17	U	O4'-C4'-C3'	5.19	109.19	104.00
47	BO	91	LYS	N-CA-C	5.19	121.85	110.80
2	AA	141(A)	C	C2'-C3'-O3'	-5.18	105.92	113.70
22	AW	41	GLU	N-CA-C	5.18	116.17	108.86
34	BA	1504	G	C2'-C3'-O3'	5.18	121.48	113.70
2	AA	2535	G	C4'-C3'-O3'	-5.18	105.23	113.00
10	AK	4	ILE	N-CA-C	5.18	114.06	106.55
34	BA	241	C	C2'-C3'-O3'	-5.18	105.93	113.70
2	AA	994	C	N1-C1'-C2'	5.18	119.77	112.00
12	AM	87	LEU	N-CA-C	5.18	121.26	109.81
2	AA	748	G	C2'-C3'-O3'	-5.18	105.93	113.70
35	BB	8	U	C3'-C2'-O2'	5.18	118.47	110.70
46	BN	119	CYS	CB-CA-C	-5.18	104.92	111.70
2	AA	739	G	C2'-C3'-O3'	-5.18	105.93	113.70
14	AO	138	GLY	N-CA-C	5.18	119.65	110.80
34	BA	1478	C	C2'-C3'-O3'	-5.18	105.94	113.70
33	A9	27	CYS	N-CA-C	-5.17	100.93	108.07
34	BA	361(A)	C	N1-C1'-C2'	5.17	119.76	112.00
2	AA	1428	C	C5'-C4'-C3'	5.17	122.96	115.20
2	AA	2595	G	O4'-C1'-C2'	-5.17	102.43	107.60
34	BA	778	G	C4'-C3'-O3'	-5.17	105.24	113.00
25	A1	93	LYS	CA-C-N	5.17	131.27	121.97
25	A1	93	LYS	C-N-CA	5.17	131.27	121.97
34	BA	1451	A	C4'-C3'-O3'	5.17	120.75	113.00
2	AA	1239	G	C4'-C3'-O3'	-5.17	105.25	113.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	2717	G	C4'-C3'-O3'	-5.17	105.25	113.00
46	BN	122	LYS	N-CA-C	-5.17	102.13	110.14
27	A3	21	LEU	N-CA-C	5.17	117.11	108.23
34	BA	1493	A	C2'-C3'-O3'	-5.17	105.95	113.70
2	AA	1475	G	O4'-C1'-C2'	-5.16	102.44	107.60
2	AA	1621	U	O4'-C4'-C3'	-5.16	98.84	104.00
10	AK	141	LEU	N-CA-C	5.16	117.26	109.41
21	AV	132	GLN	N-CA-C	-5.16	106.67	112.87
34	BA	807	A	C2'-C3'-O3'	-5.16	105.96	113.70
34	BA	1399	C	C2'-C3'-O3'	-5.16	101.75	109.50
35	BB	51	G	O3'-P-O5'	-5.16	96.25	104.00
35	BC	16	U	C3'-C2'-O2'	5.16	118.44	110.70
47	BO	81	SER	N-CA-C	-5.16	100.00	108.41
54	BV	5	LEU	N-CA-C	-5.16	107.01	113.72
2	AA	1229	G	N9-C1'-C2'	-5.16	104.26	112.00
2	AA	2155	G	N9-C1'-C2'	5.16	119.74	112.00
42	BJ	156	TRP	NE1-CE2-CD2	5.16	114.11	107.40
2	AA	1005	C	N1-C1'-C2'	5.16	119.74	112.00
34	BA	1150	U	N1-C1'-C2'	5.16	119.74	112.00
2	AA	2592	G	C2'-C3'-O3'	-5.16	105.97	113.70
34	BA	190(D)	U	C4'-C3'-O3'	-5.16	105.26	113.00
34	BA	197	A	N9-C1'-C2'	5.16	121.73	114.00
2	AA	787	U	N1-C1'-C2'	-5.16	104.27	112.00
4	AD	82	TYR	CA-CB-CG	5.16	123.18	113.90
34	BA	461	C	C2'-C3'-O3'	-5.16	105.97	113.70
34	BA	752	G	C5'-C4'-C3'	5.16	122.93	115.20
2	AA	69	C	N1-C1'-C2'	5.15	119.73	112.00
2	AA	1474	C	C4'-C3'-O3'	-5.15	105.27	113.00
51	BS	14	ASN	CA-C-N	-5.15	113.40	119.84
51	BS	14	ASN	C-N-CA	-5.15	113.40	119.84
13	AN	79	PHE	N-CA-C	5.15	117.96	109.72
2	AA	395	U	C4'-C3'-O3'	-5.15	105.28	113.00
2	AA	1509	C	N1-C1'-C2'	-5.15	104.28	112.00
2	AA	2031	A	C2'-C3'-O3'	-5.15	105.98	113.70
34	BA	517	G	N9-C1'-C2'	5.15	121.72	114.00
2	AA	1011	G	N9-C1'-C2'	5.15	121.72	114.00
2	AA	1272	A	N9-C1'-C2'	5.15	119.72	112.00
3	AC	79	LYS	N-CA-C	5.15	115.80	108.54
2	AA	1264	G	N9-C1'-C2'	5.14	119.72	112.00
2	AA	1936	A	N9-C1'-C2'	5.14	121.72	114.00
5	AE	103	GLU	N-CA-C	-5.14	99.84	110.80
34	BA	1541	U	C3'-C2'-C1'	5.14	106.44	101.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	1558	A	C4'-C3'-O3'	-5.14	105.29	113.00
20	AU	8	ARG	N-CA-C	-5.14	105.57	111.07
8	AH	95	ALA	N-CA-C	5.14	117.06	108.99
2	AA	155	C	N1-C1'-C2'	5.14	121.71	114.00
2	AA	1204	A	C2'-C3'-O3'	-5.14	105.99	113.70
2	AA	2586	C	N1-C1'-C2'	-5.14	104.29	112.00
2	AA	541	C	C4'-C3'-O3'	-5.14	105.30	113.00
2	AA	931	G	C1'-O4'-C4'	-5.13	104.57	109.70
25	A1	88	ILE	O-C-N	5.13	126.71	122.09
33	A9	25	VAL	O-C-N	5.13	128.80	123.26
15	AP	43	PRO	N-CA-C	5.13	123.04	112.47
34	BA	341	C	C4'-C3'-O3'	-5.13	105.30	113.00
20	AU	91	LEU	N-CA-C	5.13	117.09	108.73
2	AA	1612	C	N1-C1'-C2'	5.13	119.69	112.00
2	AA	2832	U	O4'-C1'-C2'	-5.13	102.47	107.60
34	BA	45	U	N1-C1'-C2'	5.13	119.69	112.00
2	AA	2471	C	O4'-C4'-C3'	-5.12	98.88	104.00
2	AA	223	A	N9-C1'-C2'	5.12	119.69	112.00
2	AA	963	U	C4'-C3'-O3'	-5.12	105.32	113.00
35	BB	15	G	C5'-C4'-O4'	-5.12	102.12	109.80
2	AA	1607	C	C4'-C3'-C2'	-5.12	97.48	102.60
7	AG	48	MET	CA-C-N	-5.12	113.44	119.84
7	AG	48	MET	C-N-CA	-5.12	113.44	119.84
34	BA	1004	A	N9-C1'-C2'	5.12	121.68	114.00
43	BK	125	ARG	N-CA-C	5.12	121.71	110.80
27	A3	27	GLY	N-CA-C	5.12	125.31	113.18
2	AA	776	G	C5'-C4'-C3'	5.12	122.88	115.20
5	AE	215	LYS	CA-C-N	-5.12	113.79	120.44
5	AE	215	LYS	C-N-CA	-5.12	113.79	120.44
41	BI	56	PRO	N-CA-C	-5.12	107.95	114.35
2	AA	2508	G	C2'-C3'-O3'	-5.12	106.02	113.70
14	AO	105	TYR	CA-C-N	5.12	131.18	121.97
14	AO	105	TYR	C-N-CA	5.12	131.18	121.97
32	A8	25	PHE	N-CA-C	5.12	118.28	110.20
48	BP	29	ARG	N-CA-C	-5.12	105.16	111.40
2	AA	295	G	C5'-C4'-C3'	-5.11	108.33	116.00
2	AA	911	A	N9-C1'-C2'	5.11	119.67	112.00
2	AA	1523	U	C2'-C3'-O3'	-5.11	106.03	113.70
2	AA	2697	G	C5'-C4'-C3'	-5.11	108.33	116.00
6	AF	146	ASP	N-CA-C	5.11	119.51	113.12
17	AR	52	THR	N-CA-C	5.11	121.69	110.80
2	AA	2277	G	C5'-C4'-C3'	-5.11	108.33	116.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
16	AQ	44	ARG	N-CA-C	-5.11	100.01	108.75
23	AX	16	PRO	N-CA-C	5.11	123.00	112.47
34	BA	159	G	C2'-C3'-O3'	-5.11	106.04	113.70
2	AA	988	A	C5'-C4'-C3'	-5.11	108.34	116.00
2	AA	1144	G	N9-C1'-C2'	5.11	119.66	112.00
2	AA	2056	G	C5'-C4'-C3'	-5.11	108.34	116.00
34	BA	1225	A	N9-C1'-C2'	5.11	119.66	112.00
2	AA	119	A	C2'-C3'-O3'	5.11	117.16	109.50
9	AI	39	VAL	CA-C-N	-5.11	112.55	120.31
9	AI	39	VAL	C-N-CA	-5.11	112.55	120.31
10	AK	131	VAL	N-CA-C	5.11	114.92	107.37
34	BA	1126	U	C2'-C3'-O3'	-5.11	106.04	113.70
2	AA	826	U	N1-C1'-C2'	5.10	119.66	112.00
2	AA	2496	C	C4'-C3'-O3'	-5.10	105.34	113.00
34	BA	119	A	C2'-C3'-O3'	5.10	117.16	109.50
34	BA	501	C	C2'-C3'-O3'	-5.10	106.04	113.70
41	BI	6	VAL	CB-CA-C	-5.10	103.51	110.96
2	AA	1971	A	C1'-C2'-O2'	5.10	116.05	108.40
34	BA	164	U	C4'-C3'-O3'	-5.10	105.35	113.00
34	BA	1224	G	C5'-C4'-C3'	5.10	123.65	116.00
39	BG	194	LEU	N-CA-C	5.10	116.73	108.26
40	BH	100	VAL	CA-C-N	-5.10	112.79	121.97
40	BH	100	VAL	C-N-CA	-5.10	112.79	121.97
2	AA	862	G	C2'-C3'-O3'	-5.10	106.05	113.70
2	AA	1255	U	C3'-C2'-O2'	5.10	118.35	110.70
34	BA	1305	G	C4'-C3'-O3'	-5.10	105.35	113.00
37	BE	86	GLU	N-CA-C	-5.10	102.96	111.37
2	AA	1153	C	C2'-C3'-O3'	-5.10	106.06	113.70
2	AA	1426	G	C2'-C3'-O3'	-5.09	106.06	113.70
2	AA	2822	G	C4'-C3'-O3'	-5.09	105.36	113.00
34	BA	1190	G	N9-C1'-C2'	5.09	119.64	112.00
34	BA	1417	G	C2'-C3'-O3'	-5.09	106.06	113.70
38	BF	80	GLY	N-CA-C	-5.09	101.11	113.18
46	BN	80	VAL	N-CA-C	5.09	115.99	108.45
2	AA	219	G	N9-C1'-C2'	5.09	119.63	112.00
2	AA	1790	C	N1-C1'-C2'	5.09	119.64	112.00
2	AA	2630	G	C4'-C3'-O3'	-5.09	105.37	113.00
6	AF	45	ASP	N-CA-C	5.09	116.25	108.42
34	BA	60	A	C2'-C3'-O3'	5.09	117.13	109.50
39	BG	41	GLY	N-CA-C	5.09	125.23	113.18
2	AA	1559	G	O4'-C1'-C2'	-5.08	102.52	107.60
26	A2	7	THR	CB-CA-C	-5.08	101.30	109.89

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	653	A	N9-C1'-C2'	5.08	121.62	114.00
4	AD	173	VAL	CB-CA-C	-5.08	103.54	110.96
34	BA	897	C	C4'-C3'-O3'	-5.08	105.38	113.00
4	AD	222	PRO	N-CA-C	-5.08	102.01	112.47
6	AF	39	GLN	N-CA-C	-5.08	105.18	111.33
3	AC	97	GLU	N-CA-C	-5.08	105.74	112.34
48	BP	40	ASN	N-CA-C	-5.08	102.50	109.71
1	AB	73	A	C4'-C3'-O3'	-5.08	105.38	113.00
2	AA	1364	G	C5'-C4'-O4'	-5.08	102.19	109.80
2	AA	1453	A	O4'-C1'-C2'	-5.08	102.52	107.60
2	AA	2592	G	C1'-C2'-O2'	5.08	116.01	108.40
2	AA	2602	A	O4'-C1'-C2'	5.08	110.88	105.80
35	BB	22	G	C5'-C4'-C3'	5.08	123.61	116.00
43	BK	27	PRO	CA-C-N	-5.08	113.84	120.95
43	BK	27	PRO	C-N-CA	-5.08	113.84	120.95
2	AA	31	C	C2'-C3'-O3'	-5.07	106.09	113.70
2	AA	2427	C	C4'-C3'-O3'	-5.07	105.39	113.00
34	BA	546	G	C4'-C3'-O3'	-5.07	105.39	113.00
2	AA	1525	G	N9-C1'-C2'	5.07	119.61	112.00
37	BE	124	SER	N-CA-C	5.07	121.02	109.81
2	AA	1341	U	C4'-C3'-O3'	-5.07	105.39	113.00
14	AO	69	ILE	CB-CA-C	-5.07	105.38	112.02
4	AD	214	MET	CA-CB-CG	5.07	124.24	114.10
34	BA	245	C	C2'-C3'-O3'	-5.07	106.10	113.70
2	AA	115	C	C2'-C3'-O3'	-5.07	106.10	113.70
2	AA	152	G	N9-C1'-C2'	-5.07	104.40	112.00
2	AA	2015	A	C4'-C3'-O3'	-5.07	105.40	113.00
13	AN	62	VAL	CA-C-N	-5.07	116.52	122.14
13	AN	62	VAL	C-N-CA	-5.07	116.52	122.14
48	BP	90	LEU	N-CA-C	-5.07	104.84	111.02
2	AA	1888	G	C1'-C2'-O2'	5.06	116.00	108.40
12	AM	59	LYS	CA-C-N	-5.06	113.75	120.79
12	AM	59	LYS	C-N-CA	-5.06	113.75	120.79
34	BA	577	G	C4'-C3'-O3'	-5.06	105.40	113.00
46	BN	111	ASP	N-CA-C	5.06	119.91	113.18
2	AA	845	G	C2'-C3'-O3'	-5.06	106.11	113.70
2	AA	987	G	C4'-C3'-O3'	5.06	120.59	113.00
2	AA	2042	A	C1'-O4'-C4'	-5.06	104.84	109.90
2	AA	2815	C	C3'-C2'-O2'	5.06	118.29	110.70
35	BB	75	C	C2'-C3'-O3'	-5.06	106.11	113.70
2	AA	714	U	N1-C1'-C2'	-5.06	104.41	112.00
7	AG	136	ARG	N-CA-C	-5.06	102.68	110.01

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AA	558	G	C3'-C2'-O2'	5.05	118.28	110.70
2	AA	667	U	C5'-C4'-O4'	-5.05	102.22	109.80
2	AA	2641	G	C2'-C3'-O3'	-5.05	106.12	113.70
26	A2	64	GLY	N-CA-C	5.05	125.16	113.18
34	BA	330	C	C2'-C3'-O3'	-5.05	106.12	113.70
2	AA	1754	C	C3'-C2'-O2'	5.05	118.28	110.70
10	AK	18	ILE	N-CA-C	-5.05	100.61	107.99
34	BA	1188	A	C4'-C3'-O3'	-5.05	105.42	113.00
35	BB	34	G	P-O3'-C3'	-5.05	112.62	120.20
29	A5	9	LYS	N-CA-C	-5.05	100.04	110.80
34	BA	1391	U	N1-C1'-C2'	5.05	119.57	112.00
45	BM	69	ASN	N-CA-C	5.05	117.06	109.23
2	AA	2549	G	O3'-P-O5'	-5.05	96.43	104.00
37	BE	34	ALA	N-CA-C	5.05	116.75	108.52
2	AA	2791	C	N1-C1'-C2'	5.05	119.57	112.00
2	AA	2864	G	C2'-C3'-O3'	-5.05	106.13	113.70
13	AN	62	VAL	N-CA-C	5.05	119.84	109.34
17	AR	16	GLY	CA-C-N	5.05	131.18	121.54
17	AR	16	GLY	C-N-CA	5.05	131.18	121.54
2	AA	1469	A	C2'-C3'-O3'	-5.04	106.13	113.70
55	BW	94	ALA	N-CA-C	-5.04	105.23	113.19
2	AA	824	A	C2'-C3'-O3'	-5.04	106.14	113.70
38	BF	66	VAL	N-CA-C	5.04	119.82	109.34
38	BF	105	GLU	CA-C-N	5.04	127.33	120.63
38	BF	105	GLU	C-N-CA	5.04	127.33	120.63
2	AA	717	G	N9-C1'-C2'	-5.04	104.45	112.00
2	AA	791	C	O4'-C4'-C3'	-5.04	98.96	104.00
34	BA	707	C	C2'-C3'-O3'	-5.04	106.15	113.70
35	BB	20	G	C2'-C3'-O3'	-5.04	106.15	113.70
2	AA	1397	U	N1-C1'-C2'	5.03	119.55	112.00
2	AA	2423	U	O4'-C1'-N1	-5.03	100.95	108.50
2	AA	2553	G	C5'-C4'-C3'	5.03	123.55	116.00
11	AL	14	PRO	N-CA-C	5.03	122.83	112.47
1	AB	90	C	C2'-C3'-O3'	-5.03	106.15	113.70
2	AA	374	A	C4'-C3'-O3'	-5.03	105.45	113.00
2	AA	2243	U	C3'-C2'-O2'	5.03	118.24	110.70
21	AV	22	VAL	N-CA-C	5.03	116.05	109.21
34	BA	1118	C	C2'-C3'-O3'	-5.03	106.15	113.70
39	BG	152	SER	N-CA-C	5.03	116.57	111.14
34	BA	1285	A	C2'-C3'-O3'	5.03	117.04	109.50
2	AA	1555	G	C4'-C3'-O3'	-5.03	105.46	113.00
2	AA	2598	A	C4'-C3'-O3'	-5.03	105.46	113.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	BA	1193	G	N9-C1'-C2'	-5.03	104.46	112.00
2	AA	390	A	C5'-C4'-O4'	-5.03	102.26	109.80
2	AA	560	C	C4'-C3'-O3'	-5.03	105.46	113.00
35	BB	54	U	C1'-C2'-O2'	5.03	115.94	108.40
2	AA	983	A	C5'-C4'-C3'	5.02	123.53	116.00
2	AA	2637	U	C4'-C3'-O3'	-5.02	105.47	113.00
5	AE	77	PRO	CA-N-CD	-5.02	104.97	112.00
32	A8	45	GLY	N-CA-C	-5.02	101.28	113.18
2	AA	1251	C	C4'-C3'-O3'	-5.02	105.47	113.00
4	AD	225	ARG	N-CA-C	5.02	121.49	110.80
2	AA	317	G	N9-C1'-C2'	-5.02	104.47	112.00
2	AA	978	G	N9-C1'-C2'	5.02	119.53	112.00
2	AA	1417	C	C2'-C3'-O3'	-5.02	106.17	113.70
2	AA	1780	A	O4'-C1'-C2'	5.02	110.82	105.80
7	AG	92	GLU	N-CA-C	5.02	121.49	110.80
4	AD	97	ASP	N-CA-C	5.02	121.48	110.80
2	AA	599	G	C2'-C3'-O3'	-5.01	106.18	113.70
2	AA	2518	A	C5'-C4'-C3'	5.01	123.52	116.00
2	AA	2841	C	C5'-C4'-C3'	-5.01	108.48	116.00
14	AO	106	VAL	CB-CA-C	-5.01	103.07	111.29
20	AU	33	GLU	N-CA-C	-5.01	105.26	111.33
34	BA	359	U	O4'-C4'-C3'	-5.01	98.99	104.00
38	BF	155	GLY	N-CA-C	5.01	125.06	113.18
42	BJ	115	ARG	N-CA-C	5.01	117.00	109.23
1	AB	8	U	C2'-C3'-O3'	-5.01	106.18	113.70
2	AA	2456	C	C4'-C3'-O3'	-5.01	105.48	113.00
18	AS	38	TYR	N-CA-C	5.01	119.08	112.92
34	BA	1160	G	C2'-C3'-O3'	-5.01	106.18	113.70
34	BA	1189	C	C3'-C2'-O2'	5.01	118.22	110.70
2	AA	2077	A	C2'-C3'-O3'	-5.01	106.19	113.70
2	AA	2584	U	C4'-C3'-O3'	5.01	120.51	113.00
34	BA	1197	G	N9-C1'-C2'	5.01	119.51	112.00
40	BH	6	PHE	N-CA-C	5.01	116.92	108.96
2	AA	2030	A	N9-C1'-C2'	5.01	119.51	112.00
35	BC	13	C	N1-C1'-C2'	-5.01	104.49	112.00
16	AQ	59	ALA	N-CA-C	5.00	121.46	110.80
2	AA	1931	U	C2'-C3'-O3'	-5.00	106.19	113.70
2	AA	2825	C	N1-C1'-C2'	-5.00	104.49	112.00
7	AG	45	THR	N-CA-C	5.00	121.46	110.80
34	BA	1371	G	N9-C1'-C2'	-5.00	104.49	112.00
38	BF	68	VAL	N-CA-C	-5.00	101.22	109.12
2	AA	1419	A	N9-C1'-C2'	5.00	119.50	112.00

There are no chirality outliers.

All (838) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
25	A1	24	PHE	Sidechain
25	A1	45	TYR	Sidechain
25	A1	76	TYR	Sidechain
26	A2	74	TYR	Sidechain
28	A4	67	TYR	Sidechain
30	A6	22	TYR	Sidechain
2	AA	1001	A	Sidechain
2	AA	1012	U	Sidechain
2	AA	1017	G	Sidechain
2	AA	1018	C	Sidechain
2	AA	1019	U	Sidechain
2	AA	102	G	Sidechain
2	AA	1022	G	Sidechain
2	AA	1023	U	Sidechain
2	AA	1031	G	Sidechain
2	AA	1059	G	Sidechain
2	AA	1091	G	Sidechain
2	AA	1092	C	Sidechain
2	AA	1093	G	Sidechain
2	AA	1101	U	Sidechain
2	AA	1129	A	Sidechain
2	AA	1132	A	Sidechain
2	AA	1133	U	Sidechain
2	AA	1139	G	Sidechain
2	AA	114	U	Sidechain
2	AA	1140	C	Sidechain
2	AA	1142	U	Sidechain
2	AA	1143	A	Sidechain
2	AA	1146	C	Sidechain
2	AA	1155	A	Sidechain
2	AA	1170	G	Sidechain
2	AA	1173	G	Sidechain
2	AA	1183	G	Sidechain
2	AA	1187	G	Sidechain
2	AA	119	A	Sidechain
2	AA	1195	G	Sidechain
2	AA	1198	U	Sidechain
2	AA	1199	U	Sidechain
2	AA	1206	G	Sidechain
2	AA	1207	C	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
2	AA	1209	G	Sidechain
2	AA	1219	G	Sidechain
2	AA	122	G	Sidechain
2	AA	1225	C	Sidechain
2	AA	1230	C	Sidechain
2	AA	1241	A	Sidechain
2	AA	1243	G	Sidechain
2	AA	1246	A	Sidechain
2	AA	1247	A	Sidechain
2	AA	1248	G	Sidechain
2	AA	125	G	Sidechain
2	AA	1257	C	Sidechain
2	AA	1266	G	Sidechain
2	AA	1271	G	Sidechain
2	AA	1274	A	Sidechain
2	AA	1275	A	Sidechain
2	AA	1300	U	Sidechain
2	AA	1301	A	Sidechain
2	AA	1310	G	Sidechain
2	AA	1323	U	Sidechain
2	AA	1324	G	Sidechain
2	AA	1329	U	Sidechain
2	AA	1333	C	Sidechain
2	AA	1344	G	Sidechain
2	AA	1354	A	Sidechain
2	AA	137	C	Sidechain
2	AA	137(A)	G	Sidechain
2	AA	1378	A	Sidechain
2	AA	1379	A	Sidechain
2	AA	138	G	Sidechain
2	AA	1389	G	Sidechain
2	AA	1397	U	Sidechain
2	AA	14	A	Sidechain
2	AA	1405	U	Sidechain
2	AA	1406	U	Sidechain
2	AA	1416	G	Sidechain
2	AA	1418	G	Sidechain
2	AA	142	G	Sidechain
2	AA	142(A)	A	Sidechain
2	AA	1423	G	Sidechain
2	AA	1428	C	Sidechain
2	AA	1441	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
2	AA	147	U	Sidechain
2	AA	1477	A	Sidechain
2	AA	1479	G	Sidechain
2	AA	1485	G	Sidechain
2	AA	1489	U	Sidechain
2	AA	1497	U	Sidechain
2	AA	1508	A	Sidechain
2	AA	1509	C	Sidechain
2	AA	1512	G	Sidechain
2	AA	1514	U	Sidechain
2	AA	1523	U	Sidechain
2	AA	1524	G	Sidechain
2	AA	1525	G	Sidechain
2	AA	1534	G	Sidechain
2	AA	1540	G	Sidechain
2	AA	1541	U	Sidechain
2	AA	1542	G	Sidechain
2	AA	1545	A	Sidechain
2	AA	1550	C	Sidechain
2	AA	1557	C	Sidechain
2	AA	1559	G	Sidechain
2	AA	1560	G	Sidechain
2	AA	1564	C	Sidechain
2	AA	1565	C	Sidechain
2	AA	1567	A	Sidechain
2	AA	1568	G	Sidechain
2	AA	1571	A	Sidechain
2	AA	1575	C	Sidechain
2	AA	1576	U	Sidechain
2	AA	1603	A	Sidechain
2	AA	1607	C	Sidechain
2	AA	1609	A	Sidechain
2	AA	1624	G	Sidechain
2	AA	1625	C	Sidechain
2	AA	1626	G	Sidechain
2	AA	1629	U	Sidechain
2	AA	1639	U	Sidechain
2	AA	1640	C	Sidechain
2	AA	1642	G	Sidechain
2	AA	1643	G	Sidechain
2	AA	1649	G	Sidechain
2	AA	1658	C	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
2	AA	1661	G	Sidechain
2	AA	1663	C	Sidechain
2	AA	1668	A	Sidechain
2	AA	1670	C	Sidechain
2	AA	1677	A	Sidechain
2	AA	1687	G	Sidechain
2	AA	1690	A	Sidechain
2	AA	1695	G	Sidechain
2	AA	1703	G	Sidechain
2	AA	1706	U	Sidechain
2	AA	1709	U	Sidechain
2	AA	1712	C	Sidechain
2	AA	1716	U	Sidechain
2	AA	1726	G	Sidechain
2	AA	1728	G	Sidechain
2	AA	1731	G	Sidechain
2	AA	1734	C	Sidechain
2	AA	1735	C	Sidechain
2	AA	1742	C	Sidechain
2	AA	175	G	Sidechain
2	AA	1752	C	Sidechain
2	AA	1757	U	Sidechain
2	AA	1758	G	Sidechain
2	AA	1760	A	Sidechain
2	AA	1762	A	Sidechain
2	AA	1766	U	Sidechain
2	AA	1775	U	Sidechain
2	AA	1779	U	Sidechain
2	AA	1780	A	Sidechain
2	AA	1784	A	Sidechain
2	AA	1786	A	Sidechain
2	AA	1791	A	Sidechain
2	AA	1792	G	Sidechain
2	AA	1794	U	Sidechain
2	AA	1801	G	Sidechain
2	AA	1815	A	Sidechain
2	AA	1817	G	Sidechain
2	AA	1825	A	Sidechain
2	AA	1831	G	Sidechain
2	AA	1840	G	Sidechain
2	AA	1843	C	Sidechain
2	AA	1848	A	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
2	AA	1858	G	Sidechain
2	AA	188	G	Sidechain
2	AA	1884	A	Sidechain
2	AA	1902	C	Sidechain
2	AA	1911	U	Sidechain
2	AA	1917	U	Sidechain
2	AA	1918	A	Sidechain
2	AA	1919	A	Sidechain
2	AA	1928	A	Sidechain
2	AA	193	U	Sidechain
2	AA	1930	G	Sidechain
2	AA	1931	U	Sidechain
2	AA	1938	A	Sidechain
2	AA	194	G	Sidechain
2	AA	1942	C	Sidechain
2	AA	1944	U	Sidechain
2	AA	1955	U	Sidechain
2	AA	1957	C	Sidechain
2	AA	1967	C	Sidechain
2	AA	1970	A	Sidechain
2	AA	1978	A	Sidechain
2	AA	1979	C	Sidechain
2	AA	1981	A	Sidechain
2	AA	1983	C	Sidechain
2	AA	1989	G	Sidechain
2	AA	199	A	Sidechain
2	AA	1990	C	Sidechain
2	AA	1991	U	Sidechain
2	AA	1992	G	Sidechain
2	AA	1994	C	Sidechain
2	AA	200	U	Sidechain
2	AA	2007	C	Sidechain
2	AA	2016	U	Sidechain
2	AA	2017	U	Sidechain
2	AA	2019	A	Sidechain
2	AA	202	U	Sidechain
2	AA	2020	A	Sidechain
2	AA	2023	G	Sidechain
2	AA	2026	C	Sidechain
2	AA	2027	G	Sidechain
2	AA	2038	G	Sidechain
2	AA	204	A	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
2	AA	2042	A	Sidechain
2	AA	2045	C	Sidechain
2	AA	2047	U	Sidechain
2	AA	2049	G	Sidechain
2	AA	2051	A	Sidechain
2	AA	2053	G	Sidechain
2	AA	2060	A	Sidechain
2	AA	2062	A	Sidechain
2	AA	2063	C	Sidechain
2	AA	2066	C	Sidechain
2	AA	2068	U	Sidechain
2	AA	2069	G	Sidechain
2	AA	2074	U	Sidechain
2	AA	2075	U	Sidechain
2	AA	2076	U	Sidechain
2	AA	2085	C	Sidechain
2	AA	2086	U	Sidechain
2	AA	2088	G	Sidechain
2	AA	209	C	Sidechain
2	AA	2093	G	Sidechain
2	AA	2098	U	Sidechain
2	AA	2114	A	Sidechain
2	AA	2119	A	Sidechain
2	AA	2125	G	Sidechain
2	AA	2126	A	Sidechain
2	AA	2144	U	Sidechain
2	AA	2150	U	Sidechain
2	AA	2174	C	Sidechain
2	AA	2189	U	Sidechain
2	AA	2213	U	Sidechain
2	AA	2232	U	Sidechain
2	AA	2244	U	Sidechain
2	AA	2246	G	Sidechain
2	AA	2249	U	Sidechain
2	AA	2250	G	Sidechain
2	AA	2259	G	Sidechain
2	AA	2267	A	Sidechain
2	AA	2274	A	Sidechain
2	AA	2275	C	Sidechain
2	AA	2277	G	Sidechain
2	AA	2283	C	Sidechain
2	AA	2297	C	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
2	AA	2299	G	Sidechain
2	AA	230	U	Sidechain
2	AA	2320	A	Sidechain
2	AA	2326	C	Sidechain
2	AA	233	A	Sidechain
2	AA	2330	G	Sidechain
2	AA	2331	G	Sidechain
2	AA	2332	U	Sidechain
2	AA	2334	G	Sidechain
2	AA	2344	U	Sidechain
2	AA	2348	U	Sidechain
2	AA	2372	G	Sidechain
2	AA	2376	A	Sidechain
2	AA	2384	G	Sidechain
2	AA	2385	C	Sidechain
2	AA	2395	C	Sidechain
2	AA	2398	U	Sidechain
2	AA	2399	G	Sidechain
2	AA	2402	C	Sidechain
2	AA	241	A	Sidechain
2	AA	2416	C	Sidechain
2	AA	2417	C	Sidechain
2	AA	2420	C	Sidechain
2	AA	2424	C	Sidechain
2	AA	2425	A	Sidechain
2	AA	2427	C	Sidechain
2	AA	2432	A	Sidechain
2	AA	2433	A	Sidechain
2	AA	2434	A	Sidechain
2	AA	2435	A	Sidechain
2	AA	2444	G	Sidechain
2	AA	2454	G	Sidechain
2	AA	2459	A	Sidechain
2	AA	2462	U	Sidechain
2	AA	2463	C	Sidechain
2	AA	2464	C	Sidechain
2	AA	2465	C	Sidechain
2	AA	2466	C	Sidechain
2	AA	2467	C	Sidechain
2	AA	2468	G	Sidechain
2	AA	2477	C	Sidechain
2	AA	2480	C	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
2	AA	2483	C	Sidechain
2	AA	2486	G	Sidechain
2	AA	2491	U	Sidechain
2	AA	2500	U	Sidechain
2	AA	2503	A	Sidechain
2	AA	2504	U	Sidechain
2	AA	2506	U	Sidechain
2	AA	2508	G	Sidechain
2	AA	251	A	Sidechain
2	AA	2510	C	Sidechain
2	AA	2514	U	Sidechain
2	AA	2516	G	Sidechain
2	AA	2525	G	Sidechain
2	AA	2527	C	Sidechain
2	AA	2530	A	Sidechain
2	AA	2547	U	Sidechain
2	AA	2548	G	Sidechain
2	AA	2553	G	Sidechain
2	AA	2555	U	Sidechain
2	AA	2563	U	Sidechain
2	AA	2566	A	Sidechain
2	AA	2572	A	Sidechain
2	AA	2576	G	Sidechain
2	AA	2584	U	Sidechain
2	AA	2585	U	Sidechain
2	AA	2588	G	Sidechain
2	AA	2589	A	Sidechain
2	AA	259	G	Sidechain
2	AA	2590	A	Sidechain
2	AA	2595	G	Sidechain
2	AA	2599	G	Sidechain
2	AA	2603	G	Sidechain
2	AA	2604	U	Sidechain
2	AA	2605	U	Sidechain
2	AA	2607	G	Sidechain
2	AA	2619	C	Sidechain
2	AA	2623	G	Sidechain
2	AA	2630	G	Sidechain
2	AA	2644	G	Sidechain
2	AA	2645	G	Sidechain
2	AA	2656	U	Sidechain
2	AA	2668	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
2	AA	2672	G	Sidechain
2	AA	268	C	Sidechain
2	AA	2682	U	Sidechain
2	AA	2685	G	Sidechain
2	AA	2686	G	Sidechain
2	AA	2687	U	Sidechain
2	AA	2689	U	Sidechain
2	AA	2692	C	Sidechain
2	AA	2696	U	Sidechain
2	AA	270	A	Sidechain
2	AA	270(S)	G	Sidechain
2	AA	2701	C	Sidechain
2	AA	2703	C	Sidechain
2	AA	2707	G	Sidechain
2	AA	2708	G	Sidechain
2	AA	271(C)	U	Sidechain
2	AA	2724	C	Sidechain
2	AA	2726	U	Sidechain
2	AA	2727	G	Sidechain
2	AA	2728	U	Sidechain
2	AA	2732	G	Sidechain
2	AA	2733	A	Sidechain
2	AA	2739	U	Sidechain
2	AA	2744	G	Sidechain
2	AA	2758	A	Sidechain
2	AA	2767	C	Sidechain
2	AA	2768	C	Sidechain
2	AA	2777	G	Sidechain
2	AA	2779	U	Sidechain
2	AA	2781	A	Sidechain
2	AA	2783	G	Sidechain
2	AA	2792	G	Sidechain
2	AA	2793	G	Sidechain
2	AA	280	C	Sidechain
2	AA	2804	C	Sidechain
2	AA	2808	U	Sidechain
2	AA	2810	A	Sidechain
2	AA	2825	C	Sidechain
2	AA	2826	A	Sidechain
2	AA	2832	U	Sidechain
2	AA	2833	G	Sidechain
2	AA	2834	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
2	AA	284	U	Sidechain
2	AA	2845	G	Sidechain
2	AA	2848	G	Sidechain
2	AA	2854	G	Sidechain
2	AA	2863	C	Sidechain
2	AA	2865	U	Sidechain
2	AA	287	C	Sidechain
2	AA	2887	U	Sidechain
2	AA	2889	C	Sidechain
2	AA	2895	U	Sidechain
2	AA	2898	U	Sidechain
2	AA	292	C	Sidechain
2	AA	296	C	Sidechain
2	AA	31	C	Sidechain
2	AA	317	G	Sidechain
2	AA	329	G	Sidechain
2	AA	349	G	Sidechain
2	AA	353	G	Sidechain
2	AA	358	U	Sidechain
2	AA	362	U	Sidechain
2	AA	363(E)	U	Sidechain
2	AA	385	C	Sidechain
2	AA	386	G	Sidechain
2	AA	389	G	Sidechain
2	AA	403	U	Sidechain
2	AA	404	C	Sidechain
2	AA	431	U	Sidechain
2	AA	442	G	Sidechain
2	AA	444(A)	A	Sidechain
2	AA	446	G	Sidechain
2	AA	448	U	Sidechain
2	AA	45	G	Sidechain
2	AA	458	G	Sidechain
2	AA	459	U	Sidechain
2	AA	461	C	Sidechain
2	AA	464	U	Sidechain
2	AA	468	G	Sidechain
2	AA	470	A	Sidechain
2	AA	473	G	Sidechain
2	AA	474	G	Sidechain
2	AA	484	C	Sidechain
2	AA	49	A	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
2	AA	508	G	Sidechain
2	AA	51	G	Sidechain
2	AA	511	U	Sidechain
2	AA	513	A	Sidechain
2	AA	514	A	Sidechain
2	AA	515	A	Sidechain
2	AA	530	G	Sidechain
2	AA	54	G	Sidechain
2	AA	544	C	Sidechain
2	AA	549	G	Sidechain
2	AA	554	U	Sidechain
2	AA	560	C	Sidechain
2	AA	566	U	Sidechain
2	AA	567	A	Sidechain
2	AA	573	G	Sidechain
2	AA	574	C	Sidechain
2	AA	575	A	Sidechain
2	AA	576	U	Sidechain
2	AA	58	G	Sidechain
2	AA	583	G	Sidechain
2	AA	584	C	Sidechain
2	AA	59	U	Sidechain
2	AA	599	G	Sidechain
2	AA	605	C	Sidechain
2	AA	614	U	Sidechain
2	AA	615	G	Sidechain
2	AA	616	A	Sidechain
2	AA	617	G	Sidechain
2	AA	623	G	Sidechain
2	AA	63	U	Sidechain
2	AA	638	G	Sidechain
2	AA	639	U	Sidechain
2	AA	642	G	Sidechain
2	AA	646	A	Sidechain
2	AA	649	G	Sidechain
2	AA	650	C	Sidechain
2	AA	656	G	Sidechain
2	AA	661	C	Sidechain
2	AA	670	A	Sidechain
2	AA	679	C	Sidechain
2	AA	684	G	Sidechain
2	AA	688	U	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
2	AA	69	C	Sidechain
2	AA	70	G	Sidechain
2	AA	706	A	Sidechain
2	AA	711	G	Sidechain
2	AA	713	G	Sidechain
2	AA	714	U	Sidechain
2	AA	715	G	Sidechain
2	AA	717	G	Sidechain
2	AA	740	U	Sidechain
2	AA	743	G	Sidechain
2	AA	746	A	Sidechain
2	AA	748	G	Sidechain
2	AA	751	A	Sidechain
2	AA	752	A	Sidechain
2	AA	762	U	Sidechain
2	AA	767	U	Sidechain
2	AA	769	G	Sidechain
2	AA	771	G	Sidechain
2	AA	787	U	Sidechain
2	AA	791	C	Sidechain
2	AA	795	C	Sidechain
2	AA	801	G	Sidechain
2	AA	803	U	Sidechain
2	AA	805	G	Sidechain
2	AA	810	U	Sidechain
2	AA	819	A	Sidechain
2	AA	822	U	Sidechain
2	AA	828	U	Sidechain
2	AA	829	A	Sidechain
2	AA	83	G	Sidechain
2	AA	830	G	Sidechain
2	AA	833	U	Sidechain
2	AA	843	G	Sidechain
2	AA	845	G	Sidechain
2	AA	849	A	Sidechain
2	AA	858	U	Sidechain
2	AA	864	G	Sidechain
2	AA	865	C	Sidechain
2	AA	871	U	Sidechain
2	AA	875	G	Sidechain
2	AA	899	A	Sidechain
2	AA	90	U	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
2	AA	906	G	Sidechain
2	AA	908	C	Sidechain
2	AA	910	A	Sidechain
2	AA	911	A	Sidechain
2	AA	913	U	Sidechain
2	AA	915	C	Sidechain
2	AA	917	A	Sidechain
2	AA	918	A	Sidechain
2	AA	920	G	Sidechain
2	AA	923	C	Sidechain
2	AA	924	C	Sidechain
2	AA	930	U	Sidechain
2	AA	932	G	Sidechain
2	AA	937	U	Sidechain
2	AA	944	G	Sidechain
2	AA	945	A	Sidechain
2	AA	954	G	Sidechain
2	AA	955	C	Sidechain
2	AA	960	A	Sidechain
2	AA	969	U	Sidechain
2	AA	970	C	Sidechain
2	AA	972	G	Sidechain
2	AA	975	G	Sidechain
2	AA	978	G	Sidechain
2	AA	980	A	Sidechain
2	AA	983	A	Sidechain
2	AA	984	A	Sidechain
2	AA	987	G	Sidechain
2	AA	989	G	Sidechain
2	AA	99	U	Sidechain
2	AA	996	A	Sidechain
1	AB	101	A	Sidechain
1	AB	104	A	Sidechain
1	AB	105	G	Sidechain
1	AB	12	C	Sidechain
1	AB	18	G	Sidechain
1	AB	34	U	Sidechain
1	AB	39	A	Sidechain
1	AB	44	G	Sidechain
1	AB	54	G	Sidechain
1	AB	55	U	Sidechain
1	AB	59	A	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	AB	77	U	Sidechain
1	AB	87	G	Sidechain
1	AB	98	G	Sidechain
4	AD	82	TYR	Sidechain
5	AE	198	TYR	Sidechain
6	AF	46	TYR	Sidechain
7	AG	104	PHE	Sidechain
7	AG	83	PHE	Sidechain
12	AM	104	TYR	Sidechain
12	AM	109	TYR	Sidechain
13	AN	32	TYR	Sidechain
13	AN	76	TYR	Sidechain
14	AO	105	TYR	Sidechain
14	AO	125	PHE	Sidechain
16	AQ	69	TYR	Sidechain
23	AX	15	TYR	Sidechain
36	B1	48	A	Sidechain
36	B1	49	A	Sidechain
36	B1	63	C	Sidechain
36	B1	65	U	Sidechain
34	BA	10	A	Sidechain
34	BA	1003	G	Sidechain
34	BA	1012	U	Sidechain
34	BA	1036	G	Sidechain
34	BA	1050	G	Sidechain
34	BA	1063	C	Sidechain
34	BA	1065	U	Sidechain
34	BA	1067	A	Sidechain
34	BA	1079	G	Sidechain
34	BA	108	G	Sidechain
34	BA	1091	U	Sidechain
34	BA	1094	G	Sidechain
34	BA	1097	C	Sidechain
34	BA	1109	C	Sidechain
34	BA	1120	G	Sidechain
34	BA	1124	G	Sidechain
34	BA	113	G	Sidechain
34	BA	1133	G	Sidechain
34	BA	1135	U	Sidechain
34	BA	114	U	Sidechain
34	BA	1150	U	Sidechain
34	BA	1155	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
34	BA	1159	U	Sidechain
34	BA	116	A	Sidechain
34	BA	1165	C	Sidechain
34	BA	1174	G	Sidechain
34	BA	118	U	Sidechain
34	BA	1188	A	Sidechain
34	BA	1193	G	Sidechain
34	BA	1196	U	Sidechain
34	BA	1201	A	Sidechain
34	BA	121	C	Sidechain
34	BA	1212	U	Sidechain
34	BA	1219	U	Sidechain
34	BA	1235	U	Sidechain
34	BA	1240	U	Sidechain
34	BA	1241	G	Sidechain
34	BA	1271	G	Sidechain
34	BA	129	U	Sidechain
34	BA	129(A)	G	Sidechain
34	BA	1302	U	Sidechain
34	BA	1311	G	Sidechain
34	BA	132	C	Sidechain
34	BA	1321	C	Sidechain
34	BA	1328	C	Sidechain
34	BA	1348	U	Sidechain
34	BA	1361	G	Sidechain
34	BA	1391	U	Sidechain
34	BA	1392	G	Sidechain
34	BA	1393	U	Sidechain
34	BA	1394	A	Sidechain
34	BA	1395	C	Sidechain
34	BA	1397	C	Sidechain
34	BA	14	U	Sidechain
34	BA	1405	G	Sidechain
34	BA	1406	U	Sidechain
34	BA	1407	C	Sidechain
34	BA	1408	A	Sidechain
34	BA	1413	A	Sidechain
34	BA	1414	U	Sidechain
34	BA	1418	A	Sidechain
34	BA	1422	G	Sidechain
34	BA	1423	G	Sidechain
34	BA	1432	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
34	BA	1466	C	Sidechain
34	BA	1469	G	Sidechain
34	BA	1471	G	Sidechain
34	BA	1472	U	Sidechain
34	BA	1482	G	Sidechain
34	BA	1483	A	Sidechain
34	BA	1497	G	Sidechain
34	BA	1502	A	Sidechain
34	BA	1505	G	Sidechain
34	BA	1510	U	Sidechain
34	BA	1515	C	Sidechain
34	BA	1516	G	Sidechain
34	BA	1539	C	Sidechain
34	BA	1540	U	Sidechain
34	BA	1541	U	Sidechain
34	BA	156	G	Sidechain
34	BA	158	G	Sidechain
34	BA	159	G	Sidechain
34	BA	166	G	Sidechain
34	BA	180	U	Sidechain
34	BA	184	G	Sidechain
34	BA	190(D)	U	Sidechain
34	BA	190(H)	G	Sidechain
34	BA	192	U	Sidechain
34	BA	197	A	Sidechain
34	BA	203	U	Sidechain
34	BA	216	G	Sidechain
34	BA	22	G	Sidechain
34	BA	231	G	Sidechain
34	BA	243	A	Sidechain
34	BA	253	U	Sidechain
34	BA	266	G	Sidechain
34	BA	274	A	Sidechain
34	BA	281	G	Sidechain
34	BA	283	C	Sidechain
34	BA	285	G	Sidechain
34	BA	294	U	Sidechain
34	BA	297	G	Sidechain
34	BA	298	A	Sidechain
34	BA	300	A	Sidechain
34	BA	31	G	Sidechain
34	BA	314	C	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
34	BA	331	G	Sidechain
34	BA	345	C	Sidechain
34	BA	348	G	Sidechain
34	BA	357	G	Sidechain
34	BA	358	U	Sidechain
34	BA	360	A	Sidechain
34	BA	368	U	Sidechain
34	BA	369	C	Sidechain
34	BA	372	C	Sidechain
34	BA	373	A	Sidechain
34	BA	38	G	Sidechain
34	BA	388	G	Sidechain
34	BA	389	A	Sidechain
34	BA	395	C	Sidechain
34	BA	397	A	Sidechain
34	BA	405	U	Sidechain
34	BA	406	G	Sidechain
34	BA	41	G	Sidechain
34	BA	412	A	Sidechain
34	BA	413	G	Sidechain
34	BA	421	U	Sidechain
34	BA	428	G	Sidechain
34	BA	431	A	Sidechain
34	BA	432	A	Sidechain
34	BA	440	A	Sidechain
34	BA	47	C	Sidechain
34	BA	484	G	Sidechain
34	BA	488	C	Sidechain
34	BA	49	U	Sidechain
34	BA	494	G	Sidechain
34	BA	512	U	Sidechain
34	BA	528	C	Sidechain
34	BA	533	A	Sidechain
34	BA	557	G	Sidechain
34	BA	560	U	Sidechain
34	BA	561	U	Sidechain
34	BA	563	A	Sidechain
34	BA	564	C	Sidechain
34	BA	575	G	Sidechain
34	BA	576	G	Sidechain
34	BA	578	C	Sidechain
34	BA	579	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
34	BA	580	U	Sidechain
34	BA	581	G	Sidechain
34	BA	587	G	Sidechain
34	BA	591	U	Sidechain
34	BA	594	G	Sidechain
34	BA	598	U	Sidechain
34	BA	6	G	Sidechain
34	BA	627	G	Sidechain
34	BA	633	G	Sidechain
34	BA	652	U	Sidechain
34	BA	663	A	Sidechain
34	BA	666	G	Sidechain
34	BA	681	C	Sidechain
34	BA	691	G	Sidechain
34	BA	697	U	Sidechain
34	BA	703	G	Sidechain
34	BA	706	A	Sidechain
34	BA	717	C	Sidechain
34	BA	723	U	Sidechain
34	BA	727	G	Sidechain
34	BA	741	G	Sidechain
34	BA	743	U	Sidechain
34	BA	761	G	Sidechain
34	BA	762	C	Sidechain
34	BA	765	G	Sidechain
34	BA	767	A	Sidechain
34	BA	772	U	Sidechain
34	BA	776	G	Sidechain
34	BA	779	C	Sidechain
34	BA	784	C	Sidechain
34	BA	785	G	Sidechain
34	BA	789	U	Sidechain
34	BA	791	G	Sidechain
34	BA	792	A	Sidechain
34	BA	800	G	Sidechain
34	BA	803	G	Sidechain
34	BA	807	A	Sidechain
34	BA	811	C	Sidechain
34	BA	813	U	Sidechain
34	BA	816	A	Sidechain
34	BA	818	G	Sidechain
34	BA	820	U	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
34	BA	831	U	Sidechain
34	BA	841	U	Sidechain
34	BA	850	U	Sidechain
34	BA	852	G	Sidechain
34	BA	853	G	Sidechain
34	BA	863	U	Sidechain
34	BA	873	A	Sidechain
34	BA	874	G	Sidechain
34	BA	879	C	Sidechain
34	BA	887	G	Sidechain
34	BA	891	U	Sidechain
34	BA	898	G	Sidechain
34	BA	90	U	Sidechain
34	BA	901	A	Sidechain
34	BA	904	C	Sidechain
34	BA	909	A	Sidechain
34	BA	911	U	Sidechain
34	BA	915	A	Sidechain
34	BA	916	G	Sidechain
34	BA	937	A	Sidechain
34	BA	948	C	Sidechain
34	BA	961	U	Sidechain
34	BA	968	A	Sidechain
34	BA	969	A	Sidechain
34	BA	972	C	Sidechain
34	BA	974	A	Sidechain
34	BA	98	U	Sidechain
34	BA	982	U	Sidechain
34	BA	983	A	Sidechain
34	BA	998	G	Sidechain
35	BB	1	G	Sidechain
35	BB	10	G	Sidechain
35	BB	11	C	Sidechain
35	BB	13	C	Sidechain
35	BB	14	A	Sidechain
35	BB	16	U	Sidechain
35	BB	18	G	Sidechain
35	BB	19	G	Sidechain
35	BB	20	G	Sidechain
35	BB	24	G	Sidechain
35	BB	27	C	Sidechain
35	BB	29	A	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
35	BB	30	G	Sidechain
35	BB	33	U	Sidechain
35	BB	34	G	Sidechain
35	BB	35	A	Sidechain
35	BB	37	G	Sidechain
35	BB	38	A	Sidechain
35	BB	39	U	Sidechain
35	BB	4	G	Sidechain
35	BB	40	C	Sidechain
35	BB	44	A	Sidechain
35	BB	45	G	Sidechain
35	BB	46	G	Sidechain
35	BB	47	U	Sidechain
35	BB	49	C	Sidechain
35	BB	51	G	Sidechain
35	BB	57	G	Sidechain
35	BB	59	U	Sidechain
35	BB	6	U	Sidechain
35	BB	61	C	Sidechain
35	BB	65	G	Sidechain
35	BB	69	U	Sidechain
35	BB	7	U	Sidechain
35	BB	71	G	Sidechain
35	BC	18	G	Sidechain
35	BC	22	G	Sidechain
35	BC	26	G	Sidechain
35	BC	35	A	Sidechain
35	BC	41	U	Sidechain
35	BC	48	C	Sidechain
35	BC	52	U	Sidechain
35	BC	54	U	Sidechain
35	BC	56	C	Sidechain
35	BC	57	G	Sidechain
35	BC	59	U	Sidechain
35	BC	7	U	Sidechain
38	BF	184	TYR	Sidechain
39	BG	4	TYR	Sidechain
41	BI	63	TYR	Sidechain
43	BK	20	TYR	Sidechain
48	BP	23	TYR	Sidechain
51	BS	17	TYR	Sidechain
51	BS	58	TYR	Sidechain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AB	2641	0	1337	636	1
2	AA	61847	0	31165	17723	1
3	AC	1687	0	1737	748	0
4	AD	1308	0	1355	920	0
5	AE	1507	0	1494	1012	0
6	AF	1430	0	1386	857	0
7	AG	957	0	959	538	0
8	AH	1251	0	1298	625	0
9	AI	945	0	999	509	0
9	AJ	945	0	999	371	0
10	AK	1145	0	1227	645	0
11	AL	999	0	1071	508	0
12	AM	917	0	904	637	0
13	AN	937	0	1000	562	0
14	AO	639	0	615	385	0
15	AP	1081	0	1062	760	0
16	AQ	866	0	875	519	0
17	AR	406	0	361	169	0
18	AS	860	0	919	450	0
19	AT	602	0	563	351	0
20	AU	879	0	868	498	0
21	AV	1360	0	1390	804	0
22	AW	494	0	506	251	0
23	AX	477	0	529	324	0
24	A0	855	0	906	503	0
25	A1	978	0	1020	704	0
26	A2	787	0	804	586	0
27	A3	641	0	668	435	0
28	A4	604	0	595	377	0
29	A5	457	0	462	297	0
30	A6	431	0	456	228	0
31	A7	383	0	414	267	0
32	A8	496	0	549	300	0
33	A9	285	0	312	128	0
34	BA	32554	0	16429	7573	1
35	BB	1626	0	817	628	0
35	BC	1626	0	820	427	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
36	B1	1405	0	706	256	1
37	BE	1900	0	1951	974	0
38	BF	1612	0	1677	692	0
39	BG	1703	0	1763	747	0
40	BH	1146	0	1207	504	1
41	BI	843	0	857	419	0
42	BJ	1257	0	1296	547	0
43	BK	1116	0	1177	695	0
44	BL	1011	0	1043	462	0
45	BM	794	0	840	335	0
46	BN	885	0	904	420	0
47	BO	970	0	1057	470	0
48	BP	997	0	1072	512	0
49	BQ	492	0	529	269	0
50	BR	734	0	771	343	0
51	BS	700	0	720	328	0
52	BT	857	0	930	436	0
53	BU	597	0	668	347	0
54	BV	647	0	673	264	0
55	BW	762	0	859	374	0
56	BX	208	0	221	103	0
All	All	148539	0	99792	48424	3

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 196.

All (48424) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2515:C:N4	2:AA:2569:G:H1	1.08	1.45
34:BA:144:G:H1	34:BA:178:C:N4	1.13	1.45
34:BA:292:G:H1	34:BA:308:C:N4	1.08	1.45
2:AA:447:A:H1'	2:AA:449:A:N6	1.28	1.44
33:A9:11:CYS:SG	33:A9:11:CYS:CB	2.06	1.44
2:AA:1083:U:C2'	9:AI:37:VAL:HA	1.48	1.43
2:AA:1651:G:H1	2:AA:2006:C:N4	1.08	1.43
2:AA:533:G:H1	2:AA:560:C:N4	1.06	1.43
13:AN:68:GLY:HA3	13:AN:78:ARG:NE	1.28	1.42
35:BB:37:G:C2	36:B1:63:C:N4	1.88	1.41
2:AA:1778:U:H3	2:AA:1785:A:N6	1.08	1.41
34:BA:131:C:N4	34:BA:231:G:H1	1.19	1.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:245:G:N2	2:AA:254:G:H1'	1.36	1.40
2:AA:343:C:N4	2:AA:344:G:C6	1.83	1.40
2:AA:2048:G:H1	2:AA:2620:C:N4	1.14	1.39
2:AA:1222:C:H42	2:AA:1227:A:N6	1.16	1.39
34:BA:1426:C:N4	34:BA:1474:G:H1	1.20	1.38
1:AB:70:C:N4	1:AB:106:G:H1	1.22	1.38
2:AA:343:C:N3	2:AA:344:G:C2	1.91	1.37
2:AA:1612:C:N4	2:AA:1619:G:H1	1.20	1.37
2:AA:701:G:H1	2:AA:731:C:N4	1.21	1.36
2:AA:1855:G:H1	2:AA:1887:C:N4	1.23	1.36
2:AA:1299:G:H4'	2:AA:1301:A:N3	1.40	1.35
35:BB:18:G:N1	35:BB:57:G:N1	1.74	1.35
2:AA:828:U:H2'	2:AA:829:A:C8	1.60	1.35
10:AK:3:VAL:HB	10:AK:19:LYS:O	1.18	1.35
34:BA:1134:G:H1	34:BA:1140:C:N4	1.25	1.34
17:AR:23:HIS:CE1	17:AR:27:ALA:HB3	1.62	1.34
34:BA:1352:C:N4	34:BA:1370:G:H1	1.19	1.34
4:AD:165:GLY:O	4:AD:172:ILE:HB	1.20	1.34
4:AD:78:ALA:HB3	4:AD:92:LEU:O	1.26	1.33
6:AF:55:ARG:C	6:AF:79:ARG:HE	1.35	1.33
35:BB:42:G:H5''	35:BB:43:G:OP2	1.29	1.32
2:AA:295:G:O6	2:AA:344:G:C6	1.81	1.32
6:AF:53:GLY:O	6:AF:54:LEU:HG	1.27	1.32
13:AN:68:GLY:CA	13:AN:78:ARG:HE	1.43	1.32
2:AA:1006:C:H1'	12:AM:86:MET:SD	1.67	1.32
2:AA:775:G:O2'	2:AA:791:C:N4	1.61	1.31
10:AK:4:ILE:HB	10:AK:37:ILE:O	1.14	1.31
35:BB:53:G:C2'	35:BB:54:U:H5'	1.59	1.31
2:AA:2324:C:N4	2:AA:2331:G:H1	1.24	1.31
2:AA:2097:C:N4	2:AA:2192:G:H1	1.28	1.31
2:AA:447:A:C1'	2:AA:449:A:H62	1.44	1.30
19:AT:6:LYS:HB3	19:AT:27:ALA:O	1.32	1.30
35:BB:34:G:N2	35:BB:35:A:C2	1.99	1.30
2:AA:142(A):A:H4'	12:AM:21:ARG:NH2	1.43	1.30
10:AK:88:ARG:HA	10:AK:122:ARG:O	1.28	1.30
2:AA:1909:C:N4	2:AA:1921:G:H1	1.27	1.29
2:AA:324:A:N6	2:AA:339:U:H1'	1.43	1.29
4:AD:89:ASN:O	4:AD:105:ALA:HB2	1.32	1.29
34:BA:530:G:N7	35:BB:35:A:H1'	1.44	1.29
2:AA:1966:A:N3	2:AA:2593:U:H5'	1.45	1.28
2:AA:2295:C:N4	2:AA:2337:G:H1	1.30	1.28

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:34:G:C2	35:BB:35:A:N1	2.00	1.28
2:AA:599:G:H1	2:AA:658:C:N4	1.28	1.28
2:AA:1315:C:N4	2:AA:1337:G:H1	1.30	1.28
2:AA:484:C:H2'	2:AA:485:C:C6	1.68	1.27
2:AA:983:A:C8	2:AA:984:A:H1'	1.68	1.27
34:BA:320:C:N4	34:BA:333:G:H1	1.29	1.27
34:BA:957:U:H2'	34:BA:959:A:OP2	1.19	1.27
35:BB:33:U:C2	35:BB:35:A:OP2	1.87	1.27
35:BC:72:C:H2'	35:BC:73:A:C8	1.68	1.27
34:BA:378:G:H1	34:BA:385:C:N4	1.28	1.27
2:AA:388:G:H2'	2:AA:390:A:N7	1.45	1.27
2:AA:1450:C:N4	2:AA:1461:G:H1	1.28	1.27
47:BO:85:ILE:HD11	47:BO:98:TYR:CB	1.61	1.27
2:AA:138:G:H3'	2:AA:138:G:N3	1.50	1.26
2:AA:296:C:N3	2:AA:344:G:N2	1.83	1.26
2:AA:1350:C:N4	2:AA:1381:G:H1	1.32	1.26
17:AR:12:ASP:O	17:AR:13:ILE:HG12	1.26	1.26
1:AB:71:C:N4	1:AB:105:G:H1	1.32	1.26
2:AA:1076:C:O2'	11:AL:91:GLU:HB3	1.34	1.26
34:BA:766:A:H2'	34:BA:767:A:C8	1.69	1.26
2:AA:850:C:H4'	23:AX:18:ASP:OD1	1.36	1.26
16:AQ:20:TYR:O	16:AQ:23:ARG:HB3	1.29	1.26
34:BA:530:G:N7	35:BB:35:A:C1'	1.97	1.26
4:AD:87:SER:OG	4:AD:156:ALA:HB2	1.33	1.26
34:BA:961:U:O4	34:BA:974:A:N1	1.67	1.26
34:BA:1118:C:OP1	44:BL:104:ARG:HB2	1.25	1.25
35:BB:74:C:C4	35:BB:75:C:H1'	1.71	1.25
2:AA:1995:U:H5'	2:AA:1996:C:C5'	1.64	1.25
2:AA:533:G:N2	2:AA:560:C:N3	1.82	1.25
2:AA:1538:G:H2'	2:AA:1539:G:O4'	1.33	1.25
2:AA:1809:A:N6	28:A4:3:LYS:HG2	1.52	1.25
4:AD:167:GLU:HB2	4:AD:170:TYR:CE1	1.72	1.25
2:AA:270(E):G:H1	2:AA:270(U):C:N4	1.35	1.25
24:A0:58:GLY:HA2	24:A0:80:PHE:CE2	1.72	1.25
33:A9:19:ARG:O	33:A9:22:ARG:HB2	1.36	1.25
35:BB:34:G:C2'	35:BB:35:A:H5''	1.65	1.25
2:AA:135:G:H1	2:AA:144:C:N4	1.33	1.24
1:AB:70:C:N3	1:AB:106:G:N2	1.83	1.24
2:AA:2226:C:C2	2:AA:2227:A:H1'	1.72	1.24
2:AA:2581:G:O6	2:AA:2610:C:H2'	1.37	1.24
8:AH:148:ARG:CZ	8:AH:163:TYR:HA	1.66	1.24

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:530:G:C6	2:AA:2021:C:H3'	1.71	1.24
2:AA:1183:G:OP2	2:AA:1183:G:H3'	1.36	1.24
2:AA:1300:U:H1'	2:AA:1626:G:N2	1.53	1.24
24:A0:78:LYS:O	24:A0:82:GLU:HB2	1.09	1.24
34:BA:131:C:N3	34:BA:231:G:N2	1.86	1.24
34:BA:1352:C:N3	34:BA:1370:G:N2	1.86	1.24
2:AA:1414:G:H1	2:AA:1588:C:N4	1.36	1.23
34:BA:1164:G:H1	34:BA:1172:C:N4	1.35	1.23
2:AA:2544:G:H5'	2:AA:2645:G:N7	1.49	1.23
7:AG:97:GLN:HB2	7:AG:106:PHE:CE2	1.73	1.23
2:AA:874:G:H1	2:AA:903:C:N4	1.32	1.23
2:AA:1697:G:C5'	2:AA:1698:A:H5'	1.66	1.23
2:AA:1935:G:N2	2:AA:1962:C:H2'	1.49	1.23
34:BA:378:G:N2	34:BA:385:C:N3	1.86	1.23
2:AA:559:G:H2'	2:AA:560:C:C6	1.74	1.23
2:AA:589:C:N4	2:AA:668:G:H1	1.35	1.23
2:AA:612:G:H4'	2:AA:616:A:N6	1.49	1.23
37:BE:145:LEU:O	37:BE:149:LEU:HB2	1.33	1.23
10:AK:4:ILE:O	10:AK:36:ALA:HB1	1.36	1.22
14:AO:69:ILE:O	14:AO:73:VAL:HB	1.37	1.22
34:BA:375:U:O3'	51:BS:6:LEU:HD21	1.39	1.22
2:AA:557:U:H4'	12:AM:92:GLN:NE2	1.50	1.22
2:AA:1717:G:N1	2:AA:1742:C:O2	1.69	1.22
2:AA:783:A:C2	2:AA:785:G:H1'	1.74	1.22
2:AA:1166:C:N3	2:AA:1183:G:N2	1.87	1.22
4:AD:210:LYS:O	4:AD:213:LYS:HB2	1.34	1.22
34:BA:1490:C:C6	34:BA:1490:C:H5'	1.75	1.22
37:BE:176:GLU:O	37:BE:180:LEU:HG	1.36	1.22
2:AA:701:G:N2	2:AA:731:C:N3	1.86	1.22
13:AN:64:ARG:NH2	13:AN:100:GLY:HA3	1.51	1.22
15:AP:50:VAL:O	15:AP:118:ALA:HA	1.32	1.22
16:AQ:19:ASP:HB2	16:AQ:22:GLN:NE2	1.52	1.22
34:BA:888:G:H21	34:BA:909:A:N6	1.38	1.22
34:BA:1534:A:H3'	34:BA:1534:A:N3	1.52	1.22
2:AA:270(O):U:H5''	2:AA:270(P):C:C5	1.75	1.21
2:AA:1568:G:H5''	4:AD:60:GLN:NE2	1.55	1.21
13:AN:81:GLU:CG	13:AN:82:ASN:H	1.52	1.21
34:BA:1299:A:C8	34:BA:1301:U:H1'	1.74	1.21
42:BJ:68:ASN:ND2	42:BJ:128:ALA:HA	1.52	1.21
35:BB:12:U:C2	35:BB:24:G:N2	2.08	1.21
34:BA:625:G:OP1	51:BS:9:PHE:HB3	1.38	1.21

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:939:G:H1	34:BA:1344:C:N4	1.38	1.21
51:BS:6:LEU:HA	51:BS:18:ARG:O	1.38	1.21
2:AA:295:G:N1	2:AA:344:G:C2	2.05	1.21
2:AA:302:C:N4	2:AA:315:G:H1	1.38	1.21
2:AA:530:G:H3'	2:AA:530:G:OP2	1.39	1.21
41:BI:76:ALA:HB1	41:BI:80:ARG:NH2	1.55	1.21
34:BA:279:A:H1'	34:BA:281:G:C2	1.75	1.21
15:AP:46:VAL:HB	15:AP:124:ALA:O	1.40	1.20
33:A9:7:VAL:HB	33:A9:36:GLN:OE1	1.38	1.20
2:AA:1795:C:H2'	2:AA:1796:U:C5'	1.68	1.20
2:AA:2635:C:N4	2:AA:2783:G:H1	1.39	1.20
26:A2:21:ARG:O	26:A2:92:ALA:HB1	1.41	1.20
2:AA:137(A):G:H5''	2:AA:137(A):G:N3	1.55	1.20
2:AA:678:C:N4	2:AA:799:G:H1	1.38	1.20
2:AA:715:G:H3'	2:AA:715:G:OP2	1.41	1.20
2:AA:1270:C:H1'	2:AA:1325:G:N7	1.57	1.20
2:AA:1651:G:N2	2:AA:2006:C:N3	1.88	1.20
2:AA:2616:C:H2'	2:AA:2617:C:C6	1.76	1.20
13:AN:104:ARG:NH1	13:AN:122:ILE:HA	1.56	1.20
26:A2:72:ARG:HB2	26:A2:88:GLN:CD	1.63	1.20
2:AA:1471:A:C2	2:AA:1472:A:H1'	1.74	1.20
2:AA:1936:A:H1'	2:AA:1940:U:N3	1.53	1.20
2:AA:1939:U:C1'	2:AA:2592:G:H4'	1.72	1.20
4:AD:89:ASN:O	4:AD:90:ILE:HD12	1.37	1.20
5:AE:210:THR:HA	5:AE:216:ARG:NH2	1.57	1.20
12:AM:5:GLU:HA	12:AM:109:TYR:HE2	1.05	1.20
34:BA:562:C:O2'	47:BO:15:ARG:HB3	1.39	1.19
35:BB:47:U:C5	35:BB:49:C:H5''	1.77	1.19
2:AA:125:G:H5''	31:A7:19:ARG:NH1	1.57	1.19
2:AA:1058:G:O3'	9:AI:2:THR:HA	1.39	1.19
2:AA:1695:G:H2'	2:AA:1696:G:C5'	1.72	1.19
5:AE:74:GLU:HA	5:AE:293:TYR:CE2	1.77	1.19
12:AM:44:ALA:C	12:AM:132:LEU:HB2	1.66	1.19
35:BB:34:G:C2	36:B1:66:G:N7	2.09	1.19
2:AA:326:G:N2	2:AA:337:C:H1'	1.57	1.19
2:AA:1203:G:H1'	2:AA:1241:A:N1	1.53	1.19
2:AA:1519:G:H2'	2:AA:1520:U:O4'	1.43	1.19
2:AA:2355:C:N4	2:AA:2362:G:H1	1.41	1.19
2:AA:2553:G:H21	2:AA:2583:G:C1'	1.56	1.19
34:BA:1062:U:H2'	34:BA:1063:C:C6	1.77	1.19
2:AA:2226:C:H2'	2:AA:2227:A:O4'	1.38	1.19

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:67:LYS:HD2	4:AD:67:LYS:N	1.58	1.19
12:AM:61:VAL:CG2	12:AM:139:LEU:HB2	1.71	1.19
20:AU:78:THR:HG22	20:AU:88:PRO:HA	1.21	1.19
21:AV:13:LYS:HE2	21:AV:18:MET:SD	1.82	1.19
35:BB:41:U:H2'	35:BB:42:G:O4'	1.42	1.19
43:BK:29:SER:HB3	43:BK:32:LYS:NZ	1.55	1.19
34:BA:745:C:H5'	34:BA:851:G:N3	1.58	1.19
37:BE:14:GLY:HA3	37:BE:209:ARG:NH2	1.57	1.19
2:AA:1482:U:H1'	2:AA:1512:G:H22	1.06	1.18
2:AA:2209:C:H2'	2:AA:2210:G:C3'	1.71	1.18
2:AA:2495:G:H4'	15:AP:101:MET:HG3	1.25	1.18
20:AU:66:ASP:H	20:AU:72:ILE:HG12	1.08	1.18
34:BA:663:A:H5'	34:BA:836:G:OP1	1.41	1.18
1:AB:12:C:C5	27:A3:53:MET:HA	1.78	1.18
2:AA:2209:C:C2'	2:AA:2210:G:H3'	1.72	1.18
2:AA:2530:A:H2'	2:AA:2531:A:H5''	1.22	1.18
7:AG:93:LEU:HD12	7:AG:94:ALA:N	1.58	1.18
34:BA:974:A:H1'	49:BQ:31:ARG:HH21	1.03	1.18
2:AA:729:G:H3'	2:AA:729:G:N3	1.55	1.18
4:AD:213:LYS:C	4:AD:215:LYS:H	1.37	1.18
37:BE:21:ARG:HA	37:BE:39:ILE:HG12	1.25	1.18
2:AA:1613:G:H2'	2:AA:1617:C:H42	1.09	1.18
34:BA:370:C:O2'	34:BA:371:G:H5'	1.42	1.18
34:BA:665:A:H2'	34:BA:725:G:N2	1.56	1.18
34:BA:1320:C:H42	54:BV:36:ARG:NH1	1.42	1.18
35:BC:37:G:H2'	35:BC:38:A:C8	1.79	1.18
48:BP:84:ILE:HG13	48:BP:85:GLY:H	1.06	1.18
2:AA:295:G:N1	2:AA:344:G:C4	2.12	1.18
15:AP:35:ASN:ND2	21:AV:113:VAL:HB	1.55	1.18
15:AP:45:GLN:HE22	15:AP:153:PRO:HB2	1.06	1.18
25:A1:57:PHE:HA	25:A1:60:LEU:HD12	1.20	1.18
2:AA:2841:C:H2'	2:AA:2842:G:C8	1.79	1.17
52:BT:18:THR:HG22	52:BT:43:LEU:HD21	1.20	1.17
2:AA:1604:C:O2'	2:AA:1605:C:H5'	1.44	1.17
2:AA:27:G:C2	2:AA:512:G:H2'	1.79	1.17
2:AA:783:A:N1	2:AA:785:G:H1'	1.60	1.17
2:AA:919:G:H2'	2:AA:920:G:C8	1.80	1.17
5:AE:76:PRO:HB2	5:AE:77:PRO:HD3	1.22	1.17
5:AE:105:HIS:HB2	5:AE:108:LEU:HG	1.25	1.17
6:AF:240:LEU:O	6:AF:243:VAL:HB	1.40	1.17
13:AN:42:THR:HB	13:AN:56:GLN:O	1.43	1.17

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:A5:11:THR:CB	29:A5:16:ARG:HE	1.56	1.17
2:AA:973:A:H2'	2:AA:974:G:H5''	1.20	1.17
2:AA:1778:U:N3	2:AA:1785:A:N6	1.92	1.17
6:AF:83:ALA:H	6:AF:87:ARG:NE	1.41	1.17
12:AM:12:VAL:HB	12:AM:38:VAL:CG2	1.74	1.17
15:AP:50:VAL:HG13	15:AP:147:VAL:HA	1.21	1.17
29:A5:11:THR:HB	29:A5:16:ARG:NE	1.57	1.17
34:BA:1308:U:H3'	48:BP:99:ARG:NH1	1.59	1.17
2:AA:1171:G:H1	2:AA:1179:C:N4	1.43	1.17
2:AA:1855:G:N2	2:AA:1887:C:N3	1.92	1.17
2:AA:1903:G:H2'	2:AA:1904:G:H8	1.08	1.17
2:AA:2464:C:N3	2:AA:2486:G:N2	1.93	1.17
2:AA:911:A:C8	2:AA:2264:C:H1'	1.80	1.16
5:AE:196:GLY:HA2	5:AE:268:LEU:O	1.42	1.16
34:BA:371:G:H1	34:BA:390:C:N4	1.39	1.16
34:BA:570:G:H5'	34:BA:820:U:H1'	1.17	1.16
39:BG:20:TYR:HA	39:BG:31:CYS:SG	1.83	1.16
43:BK:35:ILE:HD11	43:BK:134:ILE:HD13	1.26	1.16
2:AA:135:G:N2	2:AA:144:C:N3	1.91	1.16
2:AA:530:G:N1	2:AA:2021:C:H3'	1.59	1.16
2:AA:711:G:H1	2:AA:720:C:N4	1.43	1.16
2:AA:1568:G:OP1	4:AD:60:GLN:HA	1.44	1.16
2:AA:2048:G:N2	2:AA:2620:C:N3	1.92	1.16
2:AA:2464:C:N4	2:AA:2486:G:H1	1.42	1.16
16:AQ:22:GLN:O	16:AQ:25:ARG:HB3	1.45	1.16
23:AX:7:LYS:O	23:AX:54:VAL:HB	1.39	1.16
24:A0:32:GLY:CA	24:A0:116:LEU:HD21	1.75	1.16
34:BA:509:A:H2'	34:BA:510:A:C8	1.79	1.16
2:AA:1002:G:H1	2:AA:1153:C:N4	1.42	1.16
2:AA:1527:G:H2'	2:AA:1528:A:H5''	1.23	1.16
2:AA:2115:G:O2'	3:AC:126:LYS:HD2	1.44	1.16
5:AE:82:ALA:O	5:AE:83:LEU:HG	1.40	1.16
5:AE:174:LEU:O	5:AE:177:ALA:HB3	1.44	1.16
6:AF:195:VAL:HB	6:AF:235:PHE:HA	1.25	1.16
13:AN:66:LYS:CE	13:AN:82:ASN:HD21	1.59	1.16
26:A2:69:ILE:N	26:A2:91:THR:HG22	1.60	1.16
35:BC:30:G:H1	35:BC:40:C:N4	1.41	1.16
37:BE:118:LEU:HD22	37:BE:142:LEU:HB2	1.19	1.16
43:BK:10:LEU:O	43:BK:13:ILE:HB	1.39	1.16
47:BO:126:LYS:HZ3	47:BO:128:ALA:HB2	1.05	1.16
2:AA:2657:A:N6	2:AA:2664:G:H21	1.44	1.16

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:20:VAL:HG11	18:AS:47:VAL:HG21	1.21	1.16
18:AS:90:ARG:HB2	18:AS:90:ARG:NH1	1.58	1.16
25:A1:13:ARG:NH1	25:A1:13:ARG:H	1.42	1.16
34:BA:1129:C:H4'	34:BA:1131:G:N7	1.61	1.16
34:BA:1236:A:H4'	34:BA:1304:G:H4'	1.21	1.16
2:AA:172:C:H2'	2:AA:173:G:H8	1.07	1.16
2:AA:919:G:N2	2:AA:2268:A:H5''	1.61	1.16
2:AA:1937:A:H3'	2:AA:1938:A:H5''	1.25	1.16
4:AD:62:ARG:HH22	4:AD:84:PRO:HD2	1.11	1.16
34:BA:1073:U:H2'	34:BA:1074:G:H8	1.08	1.16
35:BB:34:G:N1	36:B1:66:G:N7	1.94	1.16
44:BL:16:ARG:HG2	44:BL:18:PHE:HE1	1.11	1.16
1:AB:71:C:N3	1:AB:105:G:N2	1.93	1.15
2:AA:671:C:N4	2:AA:809:G:H1	1.43	1.15
2:AA:1495:A:H2'	2:AA:1496:A:N7	1.60	1.15
2:AA:2043:C:H5	2:AA:2777:G:H1'	1.04	1.15
10:AK:3:VAL:O	10:AK:18:ILE:HA	1.45	1.15
21:AV:41:ARG:O	21:AV:44:ARG:HB2	1.46	1.15
34:BA:313:A:H2'	34:BA:314:C:C6	1.81	1.15
34:BA:1392:G:H2'	34:BA:1393:U:C6	1.81	1.15
35:BB:12:U:N3	35:BB:24:G:N2	1.94	1.15
35:BB:37:G:P	35:BB:37:G:C8	2.38	1.15
2:AA:16:G:H4'	29:A5:18:MET:HE1	1.22	1.15
2:AA:614:U:H3'	2:AA:615:G:H4'	1.23	1.15
2:AA:818:G:H21	2:AA:1189:A:N6	1.45	1.15
2:AA:2313:C:H5''	7:AG:51:ARG:HD3	1.20	1.15
2:AA:2553:G:N2	2:AA:2583:G:H1'	1.61	1.15
24:A0:79:LEU:HD23	24:A0:80:PHE:N	1.61	1.15
34:BA:77:G:H1	34:BA:92:C:N4	1.45	1.15
2:AA:16:G:C4'	29:A5:18:MET:HE1	1.77	1.15
2:AA:718:A:H5''	2:AA:719:C:C6	1.81	1.15
2:AA:874:G:N2	2:AA:903:C:N3	1.92	1.15
5:AE:44:TYR:HA	5:AE:309:PRO:CD	1.76	1.15
18:AS:19:LEU:HD22	29:A5:25:LEU:HG	1.27	1.15
31:A7:35:ARG:HB3	31:A7:35:ARG:NH1	1.60	1.15
34:BA:408:A:H2'	34:BA:409:G:C8	1.81	1.15
43:BK:95:VAL:HB	43:BK:99:GLU:CD	1.70	1.15
2:AA:971:C:O2	2:AA:972:G:H1'	1.46	1.15
2:AA:1084:A:O5'	9:AI:38:ALA:N	1.78	1.15
2:AA:1184:G:C2'	2:AA:1185:C:H5'	1.77	1.15
3:AC:100:ILE:HG22	3:AC:126:LYS:HG2	1.21	1.15

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:63:VAL:HG12	13:AN:102:VAL:HG13	1.19	1.15
13:AN:64:ARG:HD3	13:AN:81:GLU:OE1	1.42	1.15
37:BE:88:ALA:HB2	37:BE:219:VAL:HG22	1.28	1.15
37:BE:185:ILE:CG2	37:BE:199:TYR:HB2	1.76	1.15
43:BK:63:LEU:HD13	43:BK:63:LEU:N	1.56	1.15
50:BR:38:ARG:HB3	50:BR:38:ARG:NH1	1.61	1.15
2:AA:607:U:N3	2:AA:621:A:N6	1.95	1.15
2:AA:987:G:H2'	2:AA:988:A:H5'	1.25	1.15
2:AA:1222:C:N4	2:AA:1227:A:N6	1.94	1.15
2:AA:1530:G:O6	2:AA:1541:U:O2	1.61	1.15
2:AA:1691:C:O2'	2:AA:1692:U:H5'	1.46	1.15
3:AC:82:LYS:HB3	3:AC:116:THR:HG21	1.27	1.15
4:AD:112:GLY:O	4:AD:114:GLU:HG3	1.47	1.15
21:AV:13:LYS:HZ1	21:AV:33:ALA:HA	1.06	1.15
25:A1:98:ILE:HG13	26:A2:13:ARG:HH21	1.06	1.15
28:A4:5:LEU:HD12	28:A4:60:ASN:HD21	1.12	1.15
34:BA:144:G:N2	34:BA:178:C:N3	1.92	1.15
43:BK:9:MET:HG2	43:BK:13:ILE:HD11	1.24	1.15
1:AB:89(A):A:H2'	1:AB:90:C:H5'	1.20	1.14
2:AA:2231:C:H2'	2:AA:2232:U:C6	1.81	1.14
2:AA:2702:U:H6	2:AA:2702:U:OP1	1.25	1.14
3:AC:76:ALA:HB3	3:AC:94:VAL:HG22	1.29	1.14
4:AD:213:LYS:HB3	4:AD:215:LYS:HB2	1.23	1.14
5:AE:42:ALA:HA	5:AE:311:PHE:CE2	1.79	1.14
5:AE:48:MET:HB3	5:AE:71:THR:HG23	1.24	1.14
6:AF:58:ALA:HB2	6:AF:79:ARG:N	1.62	1.14
18:AS:30:GLU:HA	18:AS:33:ARG:HD3	1.30	1.14
30:A6:28:ARG:NH1	30:A6:28:ARG:HB3	1.60	1.14
37:BE:174:VAL:O	37:BE:178:ARG:HB2	1.44	1.14
2:AA:246:C:N4	2:AA:252:G:H1	1.46	1.14
2:AA:2103:C:N4	2:AA:2186:G:H1	1.43	1.14
3:AC:131:LEU:HB3	3:AC:136:LEU:C	1.72	1.14
8:AH:73:ASN:HB3	8:AH:137:LYS:NZ	1.61	1.14
34:BA:985:C:N4	34:BA:1220:G:H1	1.45	1.14
43:BK:33:GLU:HG2	43:BK:59:LEU:HD11	1.26	1.14
2:AA:628:G:H1	2:AA:635:C:N4	1.44	1.14
2:AA:1054:A:N6	2:AA:1105:U:H3	1.46	1.14
2:AA:2250:G:H5''	15:AP:102:ARG:HB3	1.19	1.14
13:AN:20:LEU:O	13:AN:41:ALA:HB1	1.45	1.14
16:AQ:104:ILE:HG21	16:AQ:109:PRO:HD3	1.25	1.14
23:AX:9:VAL:N	23:AX:54:VAL:HG12	1.61	1.14

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:18:LYS:HA	39:BG:33:MET:HE2	1.29	1.14
1:AB:84:C:N4	1:AB:92:G:H1	1.45	1.14
2:AA:68:G:H2'	2:AA:69:C:C6	1.83	1.14
2:AA:343:C:N3	2:AA:344:G:C4	2.16	1.14
2:AA:594:U:H2'	2:AA:595:C:C6	1.83	1.14
2:AA:1350:C:N3	2:AA:1381:G:N2	1.95	1.14
2:AA:1482:U:C1'	2:AA:1512:G:H22	1.58	1.14
2:AA:1795:C:C2'	2:AA:1796:U:H5'	1.77	1.14
3:AC:14:VAL:HG22	3:AC:28:LEU:HD21	1.25	1.14
7:AG:93:LEU:CD1	7:AG:94:ALA:H	1.60	1.14
15:AP:50:VAL:HG22	15:AP:147:VAL:HG13	1.30	1.14
31:A7:27:GLY:O	31:A7:31:LEU:HG	1.47	1.14
37:BE:217:ARG:O	37:BE:220:ASP:HB2	1.47	1.14
2:AA:342:G:N1	2:AA:344:G:N2	1.96	1.14
2:AA:783:A:H2'	2:AA:784:A:H4'	1.16	1.14
3:AC:193:ILE:O	3:AC:197:GLU:HB2	1.48	1.14
21:AV:24:TYR:O	21:AV:84:TYR:HA	1.46	1.14
34:BA:417:C:N4	34:BA:426:G:H1	1.44	1.14
51:BS:3:LYS:HD2	51:BS:24:ALA:HB2	1.22	1.14
53:BU:49:LYS:N	53:BU:49:LYS:HE3	1.62	1.14
2:AA:139:G:H2'	2:AA:141(A):C:O2'	1.45	1.13
2:AA:955:C:N4	2:AA:962:G:H1	1.43	1.13
2:AA:1083:U:H2'	9:AI:37:VAL:CA	1.77	1.13
2:AA:1977:A:H2'	2:AA:1978:A:C8	1.82	1.13
2:AA:2121:G:H2'	2:AA:2122:U:H6	1.09	1.13
2:AA:2457:U:C2'	2:AA:2458:G:H5'	1.78	1.13
10:AK:94:THR:HG22	10:AK:97:GLN:HG3	1.21	1.13
17:AR:6:CYS:CB	17:AR:9:CYS:HB3	1.78	1.13
34:BA:280:C:H5''	34:BA:281:G:OP2	1.49	1.13
34:BA:1128:C:H1'	34:BA:1146:A:H61	1.09	1.13
41:BI:95:GLU:HB2	41:BI:96:PRO:HD3	1.25	1.13
2:AA:978:G:H1	2:AA:985:C:N4	1.44	1.13
2:AA:1268:A:H2'	2:AA:1269:A:C8	1.83	1.13
15:AP:68:ALA:HB2	15:AP:139:ALA:HB2	1.15	1.13
25:A1:74:MET:HG3	25:A1:117:ARG:NH2	1.61	1.13
28:A4:5:LEU:HD12	28:A4:60:ASN:ND2	1.62	1.13
34:BA:666:G:H5'	34:BA:726:C:O2	1.46	1.13
35:BB:57:G:H2'	35:BB:58:A:H5'	1.20	1.13
37:BE:97:TRP:HZ3	37:BE:172:ILE:HB	1.08	1.13
52:BT:45:HIS:NE2	52:BT:47:PRO:HG3	1.64	1.13
55:BW:54:LYS:HA	55:BW:57:ARG:HD2	1.25	1.13

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:286:C:H2'	2:AA:287:C:C5'	1.77	1.13
2:AA:343:C:N3	2:AA:344:G:N3	1.96	1.13
2:AA:1270:C:C4'	2:AA:1271:G:H5''	1.77	1.13
2:AA:1772:G:H2'	2:AA:1773:A:H4'	1.16	1.13
2:AA:2195:C:H2'	2:AA:2196:C:O4'	1.47	1.13
2:AA:2305:A:H5'	2:AA:2306:C:OP2	1.49	1.13
2:AA:2584:U:H6	2:AA:2584:U:H3'	1.05	1.13
2:AA:2836:U:H2'	2:AA:2837:G:C8	1.82	1.13
2:AA:2838:G:H1	2:AA:2880:C:N4	1.45	1.13
6:AF:213:ALA:HB1	6:AF:218:VAL:HG22	1.13	1.13
8:AH:86:LEU:HA	8:AH:148:ARG:NH2	1.61	1.13
11:AL:72:THR:OG1	11:AL:115:ASP:HB3	1.45	1.13
24:A0:79:LEU:HD23	24:A0:80:PHE:CA	1.79	1.13
26:A2:61:VAL:HG12	26:A2:95:ILE:HG22	1.25	1.13
34:BA:520:A:H3'	34:BA:521:G:H5''	1.30	1.13
34:BA:1528:U:O2'	34:BA:1529:G:H3'	1.47	1.13
35:BB:18:G:C2	35:BB:57:G:C2	2.37	1.13
48:BP:81:LEU:HB2	48:BP:86:CYS:SG	1.87	1.13
2:AA:2310:A:H2'	7:AG:55:LYS:HE2	1.30	1.13
4:AD:181:ARG:HB3	4:AD:181:ARG:NH1	1.64	1.13
10:AK:88:ARG:HD3	10:AK:122:ARG:HB3	1.31	1.13
24:A0:32:GLY:HA2	24:A0:116:LEU:CD2	1.76	1.13
25:A1:74:MET:HG3	25:A1:117:ARG:HH22	0.99	1.13
25:A1:97:ASP:O	25:A1:101:ARG:HG2	1.49	1.13
26:A2:60:VAL:O	26:A2:98:ILE:HB	1.47	1.13
28:A4:68:ARG:HG2	28:A4:72:LYS:HG2	1.31	1.13
37:BE:59:GLU:CB	37:BE:221:LEU:HD21	1.79	1.13
37:BE:97:TRP:CZ3	37:BE:172:ILE:HB	1.84	1.13
45:BM:84:GLN:HA	45:BM:88:LEU:HD12	1.15	1.13
51:BS:74:LEU:HD22	51:BS:79:VAL:HG21	1.23	1.13
1:AB:16:G:H3'	1:AB:16:G:OP2	1.47	1.13
2:AA:217:G:H2'	2:AA:218:A:H5'	1.29	1.12
12:AM:15:ARG:HG2	12:AM:43:ARG:HB3	1.31	1.13
18:AS:4:LYS:HG2	18:AS:106:ILE:HA	1.23	1.12
23:AX:31:LEU:CD2	23:AX:32:GLN:H	1.60	1.12
30:A6:19:GLY:HA3	30:A6:42:PRO:HG3	1.29	1.12
34:BA:858:G:N2	34:BA:869:G:H2'	1.63	1.12
34:BA:1347:G:H3'	44:BL:108:VAL:HA	1.29	1.13
43:BK:29:SER:HB3	43:BK:32:LYS:HZ1	1.06	1.13
43:BK:126:LYS:HD2	43:BK:127:LEU:N	1.62	1.13
53:BU:46:GLU:HB3	53:BU:85:LEU:HD13	1.31	1.13

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:45:GLN:HA	55:BW:91:LEU:HD22	1.19	1.13
2:AA:2785:C:H5'	5:AE:99:VAL:HG22	1.30	1.12
5:AE:39:GLN:CD	5:AE:174:LEU:HD11	1.73	1.12
35:BB:22:G:H2'	35:BB:23:A:C8	1.82	1.12
2:AA:697:C:O2'	2:AA:698:C:H5''	1.49	1.12
2:AA:1085:A:H1'	2:AA:1086:A:H4'	1.13	1.12
2:AA:1718:G:N2	2:AA:1741:C:N3	1.97	1.12
10:AK:115:ILE:HG23	10:AK:131:VAL:HG22	1.28	1.12
12:AM:50:GLU:O	12:AM:53:ILE:HG22	1.49	1.12
15:AP:16:ARG:HB3	15:AP:16:ARG:NH1	1.63	1.12
19:AT:6:LYS:HD2	19:AT:27:ALA:HB1	1.17	1.12
27:A3:36:ILE:HB	27:A3:68:VAL:HG11	1.26	1.12
34:BA:5:U:C4	39:BG:86:LYS:HE3	1.83	1.12
35:BB:18:G:N1	35:BB:57:G:C2	2.16	1.12
35:BC:20:G:N2	35:BC:21:A:H5'	1.62	1.12
46:BN:58:PRO:HA	46:BN:90:GLY:HA3	1.30	1.12
2:AA:137(A):G:H5'	2:AA:138:G:OP2	1.48	1.12
2:AA:245:G:OP1	14:AO:53:ARG:HD3	1.47	1.12
2:AA:791:C:C2	2:AA:794:G:H5'	1.84	1.12
2:AA:2125:G:N2	2:AA:2174:C:H42	1.46	1.12
2:AA:2343:C:O2'	2:AA:2344:U:H5'	1.46	1.12
10:AK:7:LYS:HA	10:AK:14:LYS:HG2	1.23	1.12
12:AM:61:VAL:HG21	12:AM:139:LEU:CB	1.79	1.12
13:AN:71:ARG:NH2	13:AN:77:ILE:HG21	1.64	1.12
22:AW:26:GLU:HA	22:AW:29:ASN:HD22	1.01	1.12
26:A2:61:VAL:HG13	26:A2:96:LEU:O	1.49	1.12
34:BA:15:G:H2'	34:BA:16:A:C8	1.83	1.12
34:BA:1426:C:N3	34:BA:1474:G:N2	1.97	1.12
45:BM:51:ARG:HB2	45:BM:59:SER:HB3	1.26	1.12
2:AA:780:G:H2'	2:AA:782:A:C8	1.83	1.12
2:AA:893:C:H2'	2:AA:894:C:C6	1.85	1.12
2:AA:1528:A:N6	2:AA:1543:A:H62	1.47	1.12
5:AE:45:LYS:HE3	5:AE:303:PRO:HG2	1.29	1.12
13:AN:9:LYS:HG3	13:AN:18:GLU:HG2	1.30	1.12
20:AU:23:VAL:HG23	20:AU:67:LEU:HD21	1.20	1.12
26:A2:78:VAL:HB	26:A2:80:TYR:HD1	1.02	1.12
34:BA:671:G:H2'	34:BA:672:U:C6	1.85	1.12
43:BK:6:ILE:HD12	43:BK:85:ARG:HH11	1.11	1.12
45:BM:24:VAL:HG21	45:BM:37:PRO:HD3	1.26	1.12
53:BU:75:ILE:HG22	53:BU:76:LEU:HD22	1.32	1.12
2:AA:1695:G:N2	2:AA:1696:G:C8	2.17	1.12

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2097:C:N3	2:AA:2192:G:N2	1.95	1.12
2:AA:2472:G:H2'	2:AA:2475:C:N4	1.65	1.12
5:AE:171:SER:O	5:AE:175:ASP:HB2	1.49	1.12
5:AE:317:PRO:HG2	5:AE:320:GLN:HG2	1.16	1.12
6:AF:162:VAL:HB	6:AF:165:ASP:OD1	1.48	1.12
21:AV:71:MET:HA	21:AV:78:PRO:CB	1.78	1.12
23:AX:31:LEU:HD22	23:AX:32:GLN:N	1.63	1.12
26:A2:59:GLU:CD	26:A2:99:GLN:HA	1.73	1.12
27:A3:46:LYS:HG2	27:A3:58:THR:H	1.10	1.12
39:BG:10:ARG:O	39:BG:13:ARG:HB2	1.48	1.12
1:AB:33:G:H2'	1:AB:34:U:C6	1.84	1.11
2:AA:821:A:O2'	2:AA:945:A:H3'	1.48	1.11
2:AA:1055:G:C2	9:AI:28:LYS:HD3	1.85	1.11
2:AA:1085:A:H1'	2:AA:1086:A:C4'	1.78	1.11
2:AA:1309:G:C2'	2:AA:1310:G:H5'	1.78	1.11
2:AA:1909:C:N3	2:AA:1921:G:N2	1.98	1.11
8:AH:90:GLY:HA3	8:AH:93:TYR:HB2	1.24	1.11
13:AN:66:LYS:HE3	13:AN:82:ASN:HD21	1.03	1.11
15:AP:127:ASN:HB2	15:AP:128:PRO:HD3	1.21	1.11
18:AS:8:ARG:HG2	18:AS:9:TYR:H	1.05	1.11
30:A6:40:TYR:O	30:A6:47:HIS:HA	1.49	1.11
34:BA:1073:U:H3	34:BA:1102:A:N6	1.46	1.11
35:BC:40:C:H2'	35:BC:41:U:H5''	1.22	1.11
43:BK:26:VAL:HG22	43:BK:27:PRO:HD2	1.31	1.11
2:AA:599:G:N2	2:AA:658:C:N3	1.98	1.11
2:AA:752:A:C5	2:AA:1781:C:H1'	1.83	1.11
2:AA:1527:G:N2	2:AA:1544:C:N3	1.98	1.11
2:AA:1935:G:H2'	2:AA:1962:C:N3	1.66	1.11
2:AA:2636:U:H4'	5:AE:84:ARG:HH12	1.09	1.11
3:AC:205:LYS:HG2	3:AC:206:GLY:H	1.12	1.11
15:AP:26:LYS:HD2	15:AP:89:PRO:HD2	1.25	1.11
19:AT:11:THR:HG23	19:AT:14:ALA:HB2	1.31	1.11
22:AW:20:LEU:HD21	22:AW:53:ILE:HG23	1.22	1.11
34:BA:1452:C:H4'	34:BA:1453:G:H5''	1.32	1.11
35:BB:36:A:N6	36:B1:65:U:C2	2.18	1.11
44:BL:55:ALA:HB3	44:BL:58:ARG:NE	1.65	1.11
53:BU:66:LEU:HD12	53:BU:67:ALA:N	1.65	1.11
2:AA:108:U:H2'	2:AA:109:G:H8	1.07	1.11
2:AA:245:G:H22	2:AA:254:G:C1'	1.63	1.11
2:AA:271(B):G:C5'	2:AA:271(C):U:H5'	1.79	1.11
2:AA:1084:A:O5'	9:AI:39:VAL:N	1.84	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1309:G:H2'	2:AA:1310:G:H5'	1.21	1.11
2:AA:1528:A:H61	2:AA:1543:A:N6	1.47	1.11
2:AA:2023:G:H1	2:AA:2040:C:N4	1.46	1.11
2:AA:2353:G:N2	2:AA:2364:C:N3	1.97	1.11
20:AU:42:VAL:HG12	20:AU:43:ASN:H	1.05	1.11
34:BA:517:G:O2'	34:BA:530:G:H4'	1.49	1.11
34:BA:1428:A:H2'	34:BA:1429:C:C6	1.84	1.11
40:BH:89:ILE:HG12	40:BH:131:ILE:HD12	1.27	1.11
43:BK:6:ILE:HD11	43:BK:85:ARG:HD3	1.31	1.11
48:BP:91:ARG:HB3	48:BP:98:VAL:HG22	1.26	1.11
2:AA:449:A:OP2	6:AF:85:LYS:HA	1.47	1.11
2:AA:559:G:H2'	2:AA:560:C:H6	0.97	1.11
2:AA:1240:U:H3'	2:AA:1241:A:H8	1.12	1.11
2:AA:1544:C:OP2	2:AA:1544:C:H3'	1.48	1.11
2:AA:2207:C:C2'	2:AA:2208:U:H5'	1.80	1.11
2:AA:2373:G:H1	2:AA:2380:C:N4	1.49	1.11
2:AA:2581:G:C6	2:AA:2610:C:H2'	1.84	1.11
4:AD:74:PRO:HD2	4:AD:96:ALA:HB2	1.24	1.11
4:AD:213:LYS:HB3	4:AD:215:LYS:CB	1.80	1.11
6:AF:5:ILE:HD11	6:AF:16:VAL:HG23	1.15	1.11
21:AV:13:LYS:NZ	21:AV:33:ALA:HA	1.62	1.11
42:BJ:100:ALA:O	42:BJ:104:LEU:HD23	1.49	1.11
42:BJ:113:GLU:HG3	42:BJ:118:VAL:HB	1.25	1.11
44:BL:32:ASP:HB3	44:BL:35:GLU:HB2	1.26	1.11
47:BO:126:LYS:NZ	47:BO:128:ALA:HB2	1.66	1.11
1:AB:8:U:H2'	1:AB:9:G:C8	1.85	1.11
2:AA:1083:U:C4	9:AI:36:PRO:HB3	1.85	1.11
2:AA:2521:C:N4	2:AA:2544:G:H1	1.46	1.11
5:AE:268:LEU:HG	5:AE:296:VAL:HG22	1.33	1.11
9:AI:16:SER:OG	9:AJ:105:GLY:HA3	1.47	1.11
13:AN:86:ILE:HG22	13:AN:94:ARG:HG3	1.33	1.11
18:AS:5:ALA:HB2	18:AS:54:ALA:HB2	1.13	1.11
23:AX:26:LEU:HD13	23:AX:47:VAL:HG22	1.26	1.11
38:BF:19:GLU:HA	38:BF:54:ARG:NH2	1.63	1.11
48:BP:22:ILE:HB	48:BP:25:ILE:HG13	1.18	1.11
2:AA:621:A:H2'	2:AA:622:G:H5'	1.19	1.10
2:AA:678:C:N3	2:AA:799:G:N2	1.98	1.10
2:AA:786:C:O2'	2:AA:787:U:H5'	1.51	1.10
2:AA:1035:U:H2'	2:AA:1036:G:H8	1.13	1.10
2:AA:1142:U:C6	2:AA:142(A):A:H5'	1.86	1.10
2:AA:2681:C:H5	2:AA:2727:G:N2	1.48	1.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:45:LYS:NZ	5:AE:301:PRO:HG2	1.64	1.10
9:AI:35:ALA:HB3	9:AI:36:PRO:HD3	1.30	1.10
15:AP:33:MET:HE3	15:AP:34:GLY:H	1.06	1.10
15:AP:85:ILE:HG22	15:AP:122:PHE:HB3	1.23	1.10
20:AU:42:VAL:HA	20:AU:112:LEU:HD13	1.32	1.10
29:A5:15:LYS:HB2	29:A5:15:LYS:NZ	1.62	1.10
33:A9:11:CYS:HB3	33:A9:32:HIS:CE1	1.85	1.10
34:BA:1210:C:H4'	34:BA:1214:C:N3	1.64	1.10
38:BF:88:ARG:NE	38:BF:101:LEU:H	1.47	1.10
51:BS:20:VAL:HG11	51:BS:32:TYR:HB2	1.31	1.10
54:BV:32:LYS:HA	54:BV:50:ALA:HB3	1.34	1.10
2:AA:669:G:N3	2:AA:669:G:H2'	1.61	1.10
2:AA:791:C:N3	2:AA:793:A:O2'	1.84	1.10
2:AA:817:C:H2'	2:AA:818:G:O4'	1.50	1.10
2:AA:1309:G:H21	2:AA:1611:C:H5'	1.17	1.10
13:AN:19:VAL:HG13	13:AN:42:THR:O	1.50	1.10
13:AN:43:VAL:HG11	13:AN:54:LYS:HA	1.32	1.10
15:AP:31:PHE:HA	15:AP:85:ILE:HD11	1.22	1.10
17:AR:6:CYS:HB3	17:AR:9:CYS:CB	1.80	1.10
33:A9:2:LYS:HZ2	33:A9:2:LYS:N	1.45	1.10
34:BA:946:A:H2'	34:BA:947:G:C8	1.85	1.10
35:BB:18:G:C6	35:BB:57:G:N1	2.18	1.10
46:BN:32:ILE:CG2	46:BN:40:ILE:HD12	1.79	1.10
47:BO:53:ARG:NH1	47:BO:93:LEU:HD22	1.64	1.10
2:AA:1543:A:H3'	2:AA:1544:C:C6	1.85	1.10
2:AA:2041:U:C2'	2:AA:2042:A:H5'	1.81	1.10
2:AA:2305:A:H3'	2:AA:2306:C:H5''	1.29	1.10
5:AE:46:ALA:HB3	5:AE:72:VAL:HG23	1.15	1.10
23:AX:30:ARG:HG3	23:AX:30:ARG:HH11	1.17	1.10
24:A0:58:GLY:HA2	24:A0:80:PHE:HE2	1.01	1.10
24:A0:61:HIS:HA	24:A0:64:ARG:HD3	1.13	1.10
34:BA:545:C:O2'	34:BA:546:G:H5'	1.52	1.10
34:BA:1538:C:N4	36:B1:51:G:H1	1.49	1.10
35:BB:40:C:H5'	35:BB:41:U:OP2	1.51	1.10
38:BF:84:ILE:HA	38:BF:87:LEU:HD12	1.29	1.10
41:BI:49:ALA:HB1	53:BU:80:PRO:HD3	1.21	1.10
42:BJ:75:VAL:HG22	42:BJ:88:PRO:HA	1.13	1.10
56:BX:12:LYS:HB3	56:BX:18:TYR:HD2	1.16	1.10
2:AA:95:G:H5'	22:AW:41:GLU:CD	1.77	1.10
2:AA:2316:C:H4'	7:AG:142:ALA:HB1	1.29	1.10
5:AE:61:PRO:HB3	5:AE:69:PRO:HA	1.25	1.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:269:ILE:HD12	5:AE:269:ILE:H	1.11	1.10
14:AO:77:ALA:HA	14:AO:81:VAL:HB	1.27	1.10
18:AS:23:LEU:HD12	29:A5:25:LEU:HB3	1.23	1.10
20:AU:57:GLY:HA2	20:AU:97:ARG:HH22	1.04	1.10
23:AX:23:LEU:HA	23:AX:28:LEU:HD12	1.34	1.10
30:A6:37:LEU:HD21	30:A6:51:ARG:HG2	1.32	1.10
34:BA:474:G:H5'	51:BS:81:ARG:HG3	1.24	1.10
34:BA:590:C:H5''	43:BK:30:ARG:HD2	1.29	1.10
34:BA:1163:C:N4	34:BA:1173:G:H1	1.49	1.10
35:BB:53:G:H2'	35:BB:54:U:H5'	1.31	1.10
38:BF:132:ARG:HG2	38:BF:136:GLN:HE21	1.05	1.10
47:BO:41:ARG:HG2	47:BO:42:THR:H	1.06	1.10
47:BO:84:LEU:N	47:BO:104:VAL:HG11	1.66	1.10
2:AA:270(I):G:H1	2:AA:270(Q):C:N4	1.49	1.10
2:AA:270(P):C:H2'	2:AA:270(Q):C:C6	1.85	1.10
2:AA:775:G:C5'	2:AA:777:A:H1'	1.81	1.10
2:AA:780:G:H2'	2:AA:782:A:N7	1.67	1.10
2:AA:973:A:C2'	2:AA:974:G:H5''	1.82	1.10
2:AA:1379:A:N3	2:AA:1379:A:H3'	1.66	1.10
2:AA:1442:G:H1	2:AA:1549:C:N4	1.49	1.10
2:AA:1482:U:H2'	2:AA:1483:G:H4'	1.23	1.10
2:AA:1591:G:H2'	2:AA:1592:C:C6	1.87	1.10
2:AA:2515:C:N3	2:AA:2569:G:N2	1.97	1.10
4:AD:89:ASN:HD21	4:AD:199:ARG:NE	1.48	1.10
4:AD:167:GLU:HG2	4:AD:182:MET:HE1	1.32	1.10
8:AH:148:ARG:NH1	8:AH:163:TYR:HA	1.66	1.10
14:AO:92:ASP:CB	14:AO:118:LEU:HD22	1.81	1.10
14:AO:119:THR:HA	14:AO:138:GLY:O	1.52	1.10
29:A5:40:LYS:NZ	29:A5:49:CYS:HB2	1.65	1.10
29:A5:45:ILE:HG13	29:A5:52:TYR:HE1	1.13	1.10
34:BA:571:U:H3'	34:BA:572:A:H5''	1.19	1.10
38:BF:84:ILE:HG13	38:BF:101:LEU:HD22	1.34	1.10
40:BH:65:ASN:HD21	40:BH:136:MET:HE1	1.17	1.10
55:BW:40:ALA:HB2	55:BW:55:ILE:HG21	1.33	1.10
2:AA:270(M):U:H4'	2:AA:270(N):G:H4'	1.27	1.09
2:AA:627:A:C6	2:AA:637:A:H1'	1.85	1.09
2:AA:1202:C:C2	2:AA:1243:G:N2	2.20	1.09
2:AA:1264:G:H3'	2:AA:1265:A:H5''	1.30	1.09
2:AA:1613:G:H3'	2:AA:1614:A:H5'	1.10	1.09
2:AA:2067:G:H1	2:AA:2443:C:N4	1.50	1.09
2:AA:2680:C:H5''	5:AE:302:GLY:O	1.50	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:201:VAL:HG22	5:AE:311:PHE:HB3	1.28	1.09
5:AE:304:ASP:H	5:AE:307:LEU:HD12	1.10	1.09
6:AF:223:LEU:HD22	6:AF:233:THR:HG21	1.16	1.09
10:AK:77:VAL:HG12	10:AK:79:ILE:HD11	1.11	1.09
10:AK:110:LEU:HD21	10:AK:114:LYS:HG3	1.23	1.09
15:AP:88:PHE:HB2	15:AP:90:PHE:CE1	1.85	1.09
21:AV:71:MET:CA	21:AV:78:PRO:HB3	1.81	1.09
27:A3:78:PHE:O	27:A3:79:ILE:HG13	1.52	1.09
28:A4:56:VAL:HG12	28:A4:57:ASP:H	1.15	1.09
38:BF:33:LEU:CD1	49:BQ:54:PRO:HD2	1.81	1.09
39:BG:144:ASP:O	39:BG:184:LYS:HA	1.51	1.09
46:BN:78:GLN:HA	46:BN:103:LEU:HD13	1.33	1.09
2:AA:215:G:H4'	2:AA:216:A:O5'	1.52	1.09
2:AA:237:C:N4	2:AA:260:G:H1	1.50	1.09
2:AA:531:C:N4	25:A1:38:THR:HG22	1.67	1.09
2:AA:1465:G:H2'	2:AA:1466:G:H8	1.09	1.09
2:AA:2225:A:H5''	2:AA:2226:C:H5'	1.29	1.09
2:AA:2250:G:N7	15:AP:102:ARG:HA	1.65	1.09
3:AC:22:ILE:HG22	3:AC:186:ALA:HA	1.22	1.09
6:AF:83:ALA:HB3	6:AF:87:ARG:HH21	1.16	1.09
8:AH:9:GLU:HA	8:AH:48:VAL:HG12	1.10	1.09
12:AM:45:VAL:O	12:AM:46:ILE:HG13	1.51	1.09
32:A8:21:LYS:HB3	32:A8:48:PHE:HZ	1.14	1.09
34:BA:22:G:H2'	34:BA:23:C:C6	1.86	1.09
34:BA:1189:C:OP1	38:BF:5:ILE:HG21	1.53	1.09
34:BA:1287:A:H2'	34:BA:1288:A:C8	1.86	1.09
35:BB:70:C:H2'	35:BB:71:G:C8	1.87	1.09
40:BH:61:TYR:HA	40:BH:64:ARG:HG3	1.34	1.09
46:BN:73:MET:SD	46:BN:103:LEU:HD21	1.91	1.09
46:BN:95:ILE:HA	46:BN:98:LEU:HD12	1.28	1.09
1:AB:115:G:H5'	16:AQ:59:ALA:HB2	1.25	1.09
2:AA:648:G:H2'	2:AA:649:G:C8	1.87	1.09
2:AA:1151:G:H4'	25:A1:81:ASN:ND2	1.65	1.09
2:AA:1438:U:H2'	2:AA:1439:A:H5'	1.24	1.09
2:AA:1468:C:C2	2:AA:1524:G:N2	2.20	1.09
2:AA:1568:G:C5'	4:AD:60:GLN:HE21	1.64	1.09
2:AA:2207:C:H2'	2:AA:2208:U:H5'	1.10	1.09
2:AA:2587:A:O2'	2:AA:2588:G:H5'	1.49	1.09
3:AC:133:PRO:HG2	3:AC:134:ARG:HG3	1.34	1.09
9:AJ:35:ALA:HB3	9:AJ:36:PRO:HD3	1.32	1.09
12:AM:5:GLU:HA	12:AM:109:TYR:CE2	1.87	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:73:VAL:HG22	14:AO:76:LEU:HD22	1.34	1.09
15:AP:15:THR:HB	15:AP:20:ILE:HG12	1.31	1.09
17:AR:49:LEU:HD22	17:AR:54:THR:CG2	1.81	1.09
27:A3:49:GLN:H	27:A3:49:GLN:NE2	1.49	1.09
34:BA:1539:C:N4	36:B1:50:G:H1	1.49	1.09
35:BB:37:G:C8	35:BB:37:G:OP2	2.06	1.09
39:BG:59:ARG:CZ	39:BG:59:ARG:HA	1.83	1.09
42:BJ:69:VAL:HG11	42:BJ:104:LEU:CD2	1.82	1.09
43:BK:80:ILE:HD12	43:BK:80:ILE:H	1.17	1.09
46:BN:79:SER:HA	46:BN:104:GLN:HB3	1.11	1.09
48:BP:77:ASN:HB2	48:BP:80:ARG:HH11	0.98	1.09
2:AA:527:C:H2'	12:AM:95:ARG:HH12	1.08	1.09
2:AA:531:C:H5'	2:AA:532:A:N3	1.67	1.09
2:AA:1083:U:H4'	9:AI:40:ALA:HB3	1.13	1.09
2:AA:1270:C:H4'	2:AA:1271:G:C5'	1.82	1.09
2:AA:1717:G:O6	2:AA:1742:C:N3	1.85	1.09
2:AA:1810:A:H2'	2:AA:1811:G:H5'	1.13	1.09
2:AA:1936:A:H1'	2:AA:1940:U:C2	1.88	1.09
2:AA:2219:G:H2'	2:AA:2224:G:H5'	1.27	1.09
2:AA:2313:C:H5'	7:AG:72:LYS:HG3	1.29	1.09
2:AA:2635:C:N3	2:AA:2783:G:N2	1.99	1.09
8:AH:25:VAL:HG12	8:AH:78:VAL:HG21	1.27	1.09
9:AI:3:ILE:HG21	11:AL:117:ASN:HA	1.22	1.09
13:AN:81:GLU:HG2	13:AN:82:ASN:N	1.50	1.09
16:AQ:61:ALA:HB2	16:AQ:88:ALA:HB2	1.11	1.09
31:A7:34:ARG:HH11	31:A7:42:LEU:HD23	1.14	1.09
34:BA:386:C:H2'	34:BA:387:U:H5'	1.14	1.09
34:BA:1048:G:H1	34:BA:1209:C:N4	1.49	1.09
34:BA:1308:U:C3'	48:BP:99:ARG:HH12	1.66	1.09
37:BE:187:LEU:HD23	37:BE:201:ILE:HG22	1.32	1.09
39:BG:58:LEU:HD13	39:BG:59:ARG:HH11	0.94	1.09
52:BT:62:SER:HB3	52:BT:72:ARG:HE	1.07	1.09
2:AA:138:G:H5''	19:AT:43:GLU:HG3	1.33	1.09
2:AA:295:G:N1	2:AA:344:G:N3	1.98	1.09
2:AA:2674:G:H2'	2:AA:2675:A:C8	1.88	1.09
4:AD:216:ALA:HB1	4:AD:223:ASN:HB2	1.30	1.09
7:AG:19:GLU:HB3	7:AG:135:VAL:HG21	1.19	1.09
15:AP:48:ASN:HA	15:AP:140:TYR:OH	1.51	1.09
15:AP:66:ASN:HB2	15:AP:70:ARG:NH2	1.66	1.09
19:AT:11:THR:H	19:AT:14:ALA:HB3	0.94	1.09
20:AU:41:ARG:HB3	20:AU:111:ARG:HG2	1.24	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:51:LEU:HA	20:AU:97:ARG:HH21	1.12	1.09
21:AV:46:GLN:HE21	21:AV:50:GLY:HA3	1.07	1.09
24:A0:55:ALA:HA	24:A0:80:PHE:CE1	1.87	1.09
25:A1:24:PHE:HE1	25:A1:29:SER:HA	1.18	1.09
26:A2:57:GLN:HG2	26:A2:58:ALA:H	1.00	1.09
32:A8:4:MET:HB2	32:A8:7:HIS:HE1	1.16	1.09
34:BA:462:G:H21	51:BS:82:GLN:NE2	1.49	1.09
34:BA:1305:G:H5''	56:BX:5:ASP:H	1.15	1.09
38:BF:36:ASP:HA	38:BF:39:ILE:HD12	1.31	1.09
38:BF:67:THR:HA	38:BF:102:ASN:O	1.53	1.09
40:BH:78:HIS:HB2	43:BK:104:ARG:HD2	1.10	1.09
47:BO:32:PHE:HB3	47:BO:84:LEU:HD21	1.31	1.09
2:AA:68:G:H2'	2:AA:69:C:H6	1.01	1.08
2:AA:295:G:N2	2:AA:344:G:N3	2.01	1.08
2:AA:557:U:H4'	12:AM:92:GLN:HE21	0.95	1.08
2:AA:1614:A:N6	18:AS:88:ARG:HB2	1.68	1.08
2:AA:2089:U:H3	2:AA:2231:C:N4	1.50	1.08
5:AE:45:LYS:HZ1	5:AE:301:PRO:C	1.61	1.08
5:AE:77:PRO:HB2	5:AE:187:HIS:H	1.12	1.08
5:AE:201:VAL:HG13	5:AE:310:PHE:O	1.49	1.08
21:AV:148:THR:HA	21:AV:168:VAL:HB	1.15	1.08
31:A7:28:ARG:HA	31:A7:31:LEU:HD12	1.35	1.08
34:BA:112:G:H5'	34:BA:389:A:H4'	1.13	1.08
34:BA:766:A:H2'	34:BA:767:A:H8	0.96	1.08
37:BE:54:THR:O	37:BE:58:ILE:HG13	1.52	1.08
39:BG:60:GLU:HA	39:BG:63:LYS:CD	1.82	1.08
46:BN:32:ILE:HB	46:BN:40:ILE:HB	1.17	1.08
2:AA:54:G:H1	2:AA:116:C:N4	1.50	1.08
2:AA:270(E):G:N2	2:AA:270(U):C:N3	2.01	1.08
2:AA:904:C:H1'	21:AV:166:LEU:HD11	1.22	1.08
2:AA:1995:U:H5'	2:AA:1996:C:H5''	1.16	1.08
2:AA:2359:C:H4'	32:A8:52:LYS:NZ	1.68	1.08
2:AA:2364:C:H1'	27:A3:32:LYS:HE2	1.33	1.08
3:AC:22:ILE:CG2	3:AC:186:ALA:HA	1.83	1.08
5:AE:222:ARG:HG2	5:AE:232:ARG:HA	1.25	1.08
5:AE:269:ILE:HG13	5:AE:297:LYS:HG2	1.31	1.08
10:AK:93:ILE:HD11	10:AK:121:ILE:HB	1.13	1.08
21:AV:5:ALA:O	21:AV:33:ALA:HB2	1.50	1.08
21:AV:103:ARG:HG2	21:AV:139:THR:HG22	1.17	1.08
21:AV:148:THR:HA	21:AV:168:VAL:CB	1.83	1.08
40:BH:39:GLY:O	40:BH:69:VAL:HG23	1.54	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:22:GLU:CA	43:BK:63:LEU:HD11	1.83	1.08
45:BM:10:GLY:HA3	45:BM:16:LEU:HD21	1.26	1.08
50:BR:3:ILE:HG23	50:BR:38:ARG:HH21	1.11	1.08
2:AA:491:G:H2'	2:AA:492:A:C8	1.88	1.08
2:AA:823:G:H2'	2:AA:824:A:C8	1.88	1.08
2:AA:1355:G:N2	2:AA:1377:G:H1'	1.67	1.08
2:AA:1617:C:H5''	2:AA:1618:A:OP2	1.53	1.08
5:AE:202:ALA:HA	5:AE:262:THR:HB	1.29	1.08
10:AK:2:LYS:HD2	10:AK:39:ALA:HB2	1.32	1.08
11:AL:14:PRO:HB2	11:AL:17:LYS:HD2	1.27	1.08
13:AN:77:ILE:HD13	13:AN:78:ARG:N	1.69	1.08
15:AP:67:ALA:HA	15:AP:70:ARG:CD	1.81	1.08
21:AV:112:LEU:HA	21:AV:174:PRO:HD3	1.35	1.08
22:AW:39:ALA:HB3	22:AW:40:PRO:HD3	1.19	1.08
25:A1:20:ARG:HB3	25:A1:39:LEU:HD11	1.36	1.08
25:A1:83:LEU:O	25:A1:86:ALA:HB2	1.53	1.08
29:A5:10:LYS:HE3	29:A5:16:ARG:HH22	1.08	1.08
43:BK:67:PRO:HD2	43:BK:76:PRO:HB3	1.32	1.08
43:BK:87:SER:HB3	43:BK:92:ARG:HA	1.33	1.08
2:AA:950:G:H2'	2:AA:951:C:C6	1.89	1.08
2:AA:972:G:N7	2:AA:1188:U:O4	1.87	1.08
2:AA:1058:G:C1'	9:AI:3:ILE:HG13	1.84	1.08
2:AA:1473:G:H2'	2:AA:1474:C:O4'	1.52	1.08
2:AA:2386:C:H4'	27:A3:39:ARG:NE	1.66	1.08
3:AC:43:VAL:HG23	3:AC:175:VAL:HG21	1.34	1.08
3:AC:180:PHE:CD2	3:AC:184:LYS:HD3	1.89	1.08
5:AE:205:THR:O	5:AE:206:LYS:HG3	1.51	1.08
5:AE:304:ASP:N	5:AE:307:LEU:HD12	1.66	1.08
11:AL:124:ALA:HA	11:AL:127:ILE:HD12	1.20	1.08
12:AM:137:GLU:HA	12:AM:141:ALA:CB	1.83	1.08
25:A1:47:TYR:CE1	26:A2:76:SER:HA	1.88	1.08
34:BA:781:A:H2'	34:BA:782:A:C5'	1.82	1.08
39:BG:29:PRO:O	39:BG:30:LYS:HG3	1.53	1.08
2:AA:629:G:H1'	2:AA:639:U:O2'	1.54	1.08
2:AA:973:A:C5	26:A2:80:TYR:HA	1.89	1.08
2:AA:1213:A:N1	2:AA:1237:A:H1'	1.67	1.08
2:AA:2022:U:H3	29:A5:9:LYS:NZ	1.50	1.08
2:AA:2125:G:OP2	3:AC:130:ILE:HA	1.54	1.08
2:AA:2334:G:H1	16:AQ:10:MET:HE2	1.09	1.08
3:AC:75:LEU:HB3	3:AC:113:VAL:HG22	1.30	1.08
4:AD:196:ASN:HA	4:AD:199:ARG:HD2	1.13	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:40:ASN:HD22	18:AS:41:LYS:HD2	1.16	1.08
24:A0:86:ARG:HB3	24:A0:86:ARG:HH11	1.12	1.08
29:A5:10:LYS:HA	29:A5:10:LYS:HZ2	0.98	1.08
32:A8:10:ALA:HA	32:A8:14:ILE:HG21	1.31	1.08
34:BA:1251:A:H2'	34:BA:1252:A:C8	1.89	1.08
35:BB:60:C:OP2	35:BB:61:C:C5	2.07	1.08
37:BE:59:GLU:HB3	37:BE:221:LEU:CD2	1.83	1.08
37:BE:91:PRO:HG2	37:BE:155:LEU:HB2	1.17	1.08
41:BI:23:LYS:HA	41:BI:26:ILE:HD12	1.17	1.08
41:BI:95:GLU:HB2	41:BI:96:PRO:CD	1.84	1.08
45:BM:32:ALA:HB2	45:BM:76:ASN:HD22	0.92	1.08
47:BO:85:ILE:HD11	47:BO:98:TYR:HB3	1.21	1.08
48:BP:13:LYS:HA	48:BP:44:ARG:HE	1.18	1.08
2:AA:1084:A:OP1	9:AI:40:ALA:N	1.86	1.07
2:AA:1614:A:N7	18:AS:88:ARG:HD2	1.69	1.07
2:AA:2472:G:C2'	2:AA:2475:C:H42	1.66	1.07
2:AA:2584:U:H3'	2:AA:2584:U:C6	1.89	1.07
2:AA:2836:U:H2'	2:AA:2837:G:H8	0.99	1.07
4:AD:131:LEU:HD11	4:AD:187:CYS:HB2	1.27	1.07
8:AH:104:LEU:HB2	8:AH:151:ARG:CZ	1.83	1.07
10:AK:125:GLY:HA2	10:AK:145:VAL:H	1.08	1.07
15:AP:71:PHE:HB3	15:AP:138:ARG:HH11	1.00	1.07
23:AX:9:VAL:HG23	23:AX:54:VAL:HA	1.09	1.07
34:BA:292:G:N2	34:BA:308:C:N3	2.00	1.07
34:BA:357:G:OP1	34:BA:367:U:H3'	1.53	1.07
34:BA:953:G:H4'	48:BP:124:PRO:O	1.53	1.07
35:BB:33:U:N3	35:BB:35:A:OP2	1.85	1.07
37:BE:115:LEU:HB2	37:BE:145:LEU:HD12	1.36	1.07
40:BH:51:VAL:O	40:BH:55:VAL:HG23	1.50	1.07
44:BL:10:ARG:HA	44:BL:104:ARG:HE	1.19	1.07
2:AA:607:U:N3	2:AA:621:A:C6	2.22	1.07
2:AA:685:A:O4'	2:AA:688:U:O4	1.71	1.07
2:AA:860:U:O4	2:AA:917:A:N1	1.86	1.07
2:AA:1044:G:H2'	2:AA:1111:A:H2	1.14	1.07
2:AA:1943:U:O2	2:AA:1945:G:H5'	1.52	1.07
2:AA:1981:A:H5''	2:AA:1982:C:OP2	1.53	1.07
2:AA:2320:A:C6	16:AQ:9:PRO:HB3	1.89	1.07
2:AA:2674:G:H2'	2:AA:2675:A:H8	1.12	1.07
2:AA:2739:U:H6	2:AA:2739:U:H3'	1.19	1.07
2:AA:2848:G:H22	2:AA:2867:G:H1'	1.12	1.07
4:AD:174:ARG:HA	4:AD:180:VAL:HG13	1.30	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:174:LEU:HD12	5:AE:174:LEU:H	1.13	1.07
12:AM:135:ILE:HG22	12:AM:139:LEU:HD11	1.35	1.07
22:AW:20:LEU:HD22	22:AW:23:LEU:HD12	1.08	1.07
26:A2:4:ILE:HA	26:A2:12:TYR:CE2	1.87	1.07
26:A2:69:ILE:H	26:A2:91:THR:CG2	1.67	1.07
32:A8:50:LEU:HD23	32:A8:51:ALA:H	1.15	1.07
34:BA:276:G:H2'	34:BA:277:C:H5'	1.36	1.07
34:BA:613:C:N4	34:BA:627:G:H1	1.51	1.07
34:BA:1490:C:H5'	34:BA:1490:C:H6	0.93	1.07
48:BP:34:LEU:HD23	48:BP:39:ILE:HG13	1.36	1.07
48:BP:81:LEU:HD11	48:BP:88:ARG:NH2	1.68	1.07
2:AA:270(X):G:H2'	2:AA:270(Y):G:C5'	1.84	1.07
2:AA:602:G:O3'	2:AA:603:A:H4'	1.42	1.07
2:AA:2317:C:H5'	7:AG:150:SER:HA	1.33	1.07
6:AF:1:MET:O	6:AF:18:LEU:HG	1.53	1.07
14:AO:53:ARG:HD2	14:AO:53:ARG:H	1.20	1.07
21:AV:118:HIS:CD2	21:AV:168:VAL:HA	1.88	1.07
34:BA:754:C:H5'	34:BA:755:G:C8	1.88	1.07
35:BC:48:C:H2'	35:BC:48:C:O2	1.49	1.07
37:BE:16:HIS:O	37:BE:204:ASN:HB2	1.53	1.07
37:BE:217:ARG:HA	37:BE:220:ASP:OD2	1.54	1.07
39:BG:140:VAL:HB	39:BG:185:PHE:HD1	1.19	1.07
40:BH:104:ALA:HA	40:BH:107:ARG:HH12	1.14	1.07
46:BN:62:GLN:HE22	46:BN:63:LEU:HG	1.16	1.07
2:AA:286:C:H2'	2:AA:287:C:H5'	1.30	1.07
2:AA:1061:U:H4'	2:AA:1070:A:C1'	1.84	1.07
2:AA:1862:G:H1	2:AA:1880:C:N4	1.52	1.07
2:AA:2805:G:H3'	2:AA:2807:G:H5''	1.36	1.07
5:AE:180:ILE:HA	5:AE:183:ASP:CG	1.79	1.07
32:A8:50:LEU:HD23	32:A8:51:ALA:N	1.68	1.07
34:BA:939:G:N2	34:BA:1344:C:N3	2.01	1.07
34:BA:1299:A:N7	34:BA:1301:U:H1'	1.68	1.07
34:BA:1343:G:H4'	44:BL:122:ALA:HB3	1.37	1.07
39:BG:20:TYR:CA	39:BG:31:CYS:SG	2.43	1.07
43:BK:111:ILE:O	43:BK:134:ILE:HB	1.53	1.07
43:BK:126:LYS:HZ3	43:BK:127:LEU:HD23	1.16	1.07
48:BP:14:ARG:HA	48:BP:44:ARG:HA	1.31	1.07
55:BW:63:ILE:HD11	55:BW:80:ARG:HB3	1.32	1.07
2:AA:172:C:H2'	2:AA:173:G:C8	1.88	1.07
2:AA:457:A:H1'	2:AA:459:U:C2	1.89	1.07
2:AA:784:A:O2'	2:AA:785:G:H5''	1.55	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:870:A:N6	2:AA:907:U:H3	1.51	1.07
2:AA:1151:G:H4'	25:A1:81:ASN:HD21	0.98	1.07
2:AA:1552:G:O2'	2:AA:1553:A:H5''	1.54	1.07
2:AA:1685:C:H2'	2:AA:1686:C:H6	1.19	1.07
2:AA:1935:G:H22	2:AA:1962:C:H2'	1.01	1.07
2:AA:2730:C:H4'	5:AE:265:ASN:HD21	1.09	1.07
4:AD:89:ASN:O	4:AD:105:ALA:CB	2.02	1.07
4:AD:128:ALA:HB2	4:AD:190:THR:HG22	1.36	1.07
5:AE:263:GLU:H	5:AE:266:LYS:NZ	1.51	1.07
5:AE:299:SER:OG	5:AE:301:PRO:HD3	1.52	1.07
6:AF:109:LEU:O	6:AF:112:ARG:HB2	1.55	1.07
12:AM:58:GLU:HA	12:AM:61:VAL:HB	1.35	1.07
13:AN:66:LYS:HE3	13:AN:82:ASN:ND2	1.69	1.07
24:A0:97:VAL:HG13	24:A0:114:VAL:HG22	1.30	1.07
37:BE:61:LEU:HA	37:BE:64:ARG:HD2	1.09	1.07
38:BF:132:ARG:HG2	38:BF:136:GLN:NE2	1.68	1.07
41:BI:37:VAL:HA	41:BI:65:VAL:HG12	1.27	1.07
2:AA:27:G:N1	2:AA:512:G:H2'	1.69	1.06
2:AA:342:G:H1	2:AA:344:G:N2	1.52	1.06
2:AA:600:G:H5'	6:AF:30:LEU:HD11	1.31	1.06
2:AA:640:C:N4	2:AA:647:G:H1	1.51	1.06
2:AA:783:A:H5''	2:AA:2589:A:OP1	1.53	1.06
2:AA:1156:A:H5'	2:AA:1157:G:N7	1.68	1.06
2:AA:1939:U:H1'	2:AA:2592:G:H4'	1.07	1.06
2:AA:2785:C:H4'	5:AE:99:VAL:HA	1.32	1.06
2:AA:2862:G:H2'	2:AA:2863:C:H6	1.12	1.06
4:AD:181:ARG:HB3	4:AD:181:ARG:CZ	1.80	1.06
6:AF:53:GLY:C	6:AF:54:LEU:HG	1.73	1.06
6:AF:115:LEU:HG	6:AF:246:ARG:NH2	1.70	1.06
7:AG:19:GLU:OE2	7:AG:135:VAL:HG13	1.55	1.06
10:AK:83:ALA:CB	10:AK:89:LEU:HA	1.83	1.06
14:AO:108:VAL:HB	14:AO:125:PHE:CD2	1.88	1.06
16:AQ:47:LEU:H	16:AQ:57:THR:HG22	1.07	1.06
19:AT:30:ASP:HA	19:AT:62:LYS:HD2	1.37	1.06
21:AV:51:LEU:HD21	21:AV:64:ALA:H	1.09	1.06
28:A4:43:TRP:HA	28:A4:61:LYS:HE3	1.35	1.06
34:BA:573:A:H2'	34:BA:574:A:C8	1.89	1.06
34:BA:1338:G:H21	35:BC:41:U:H1'	1.12	1.06
35:BB:1:G:C6	35:BB:73:A:C6	2.43	1.06
37:BE:135:GLN:O	37:BE:139:LYS:HG2	1.53	1.06
47:BO:27:LEU:HD23	47:BO:33:ARG:HH11	0.90	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:25:ARG:HH21	52:BT:40:LYS:HD2	1.13	1.06
55:BW:30:LYS:HB2	55:BW:30:LYS:NZ	1.68	1.06
2:AA:648:G:H2'	2:AA:649:G:H8	0.97	1.06
2:AA:1024:G:N7	2:AA:1025:G:C8	2.23	1.06
2:AA:1677:A:H2'	2:AA:1678:G:C8	1.89	1.06
2:AA:2054:A:N1	2:AA:2615:U:O4	1.88	1.06
2:AA:2132:U:H4'	3:AC:5:LYS:HG2	1.35	1.06
2:AA:2284:C:OP2	30:A6:9:ILE:HG13	1.55	1.06
2:AA:2316:C:C4'	7:AG:142:ALA:HB1	1.85	1.06
2:AA:2334:G:H2'	2:AA:2335:A:H5'	1.37	1.06
14:AO:108:VAL:HB	14:AO:125:PHE:HD2	1.08	1.06
24:A0:90:ARG:HH22	24:A0:117:VAL:HG22	1.20	1.06
26:A2:50:ASP:H	26:A2:53:LYS:HD2	1.13	1.06
29:A5:10:LYS:HE3	29:A5:16:ARG:NH2	1.70	1.06
30:A6:28:ARG:HB3	30:A6:28:ARG:HH11	1.06	1.06
32:A8:29:LYS:HD3	32:A8:36:LYS:HZ3	0.91	1.06
34:BA:275:G:H5'	52:BT:14:LYS:HD3	1.36	1.06
34:BA:776:G:H5''	34:BA:777:A:OP1	1.52	1.06
34:BA:1193:G:H2'	34:BA:1194:U:H5'	1.34	1.06
35:BB:60:C:H5'	35:BB:61:C:O5'	1.55	1.06
50:BR:8:LYS:O	50:BR:11:VAL:HB	1.54	1.06
1:AB:57:A:H1'	7:AG:13:MET:HE1	1.33	1.06
2:AA:819:A:H4'	2:AA:838:C:H5'	1.37	1.06
2:AA:1414:G:N2	2:AA:1588:C:N3	2.03	1.06
2:AA:1482:U:H3'	2:AA:1482:U:C6	1.90	1.06
2:AA:1703:G:O2'	34:BA:1429:C:H4'	1.55	1.06
2:AA:2842:G:H1	2:AA:2875:C:N4	1.53	1.06
4:AD:109:LEU:HD13	4:AD:115:ILE:HG12	1.37	1.06
6:AF:213:ALA:HB1	6:AF:218:VAL:CG2	1.84	1.06
14:AO:141:GLU:HB2	14:AO:145:LEU:HD22	1.35	1.06
15:AP:57:ARG:O	15:AP:61:LEU:HG	1.54	1.06
22:AW:3:LEU:HB3	22:AW:8:ILE:HD11	1.37	1.06
28:A4:2:GLN:O	28:A4:3:LYS:HG3	1.56	1.06
34:BA:547:A:H4'	34:BA:548:G:O5'	1.55	1.06
35:BB:37:G:N1	36:B1:63:C:N4	2.02	1.06
35:BC:20:G:H21	35:BC:21:A:C5'	1.68	1.06
39:BG:59:ARG:HA	39:BG:59:ARG:NH1	1.71	1.06
2:AA:137:C:N3	2:AA:142:G:N2	2.02	1.06
2:AA:562:U:O2'	2:AA:563:G:H5''	1.55	1.06
2:AA:1012:U:H5'	2:AA:1013:C:OP1	1.54	1.06
2:AA:1252:G:H8	2:AA:1253:A:H1'	1.20	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2348:U:O4	2:AA:2382:G:N2	1.89	1.06
2:AA:2510:C:N3	2:AA:2578:G:O6	1.86	1.06
2:AA:2649:U:H2'	2:AA:2650:U:H6	1.20	1.06
3:AC:190:ARG:NH1	3:AC:190:ARG:HB2	1.68	1.06
6:AF:83:ALA:CB	6:AF:87:ARG:HH21	1.69	1.06
9:AI:102:ILE:HG21	9:AI:118:LEU:HD11	1.38	1.06
11:AL:105:ILE:HG23	11:AL:128:ILE:HG21	1.38	1.06
15:AP:56:ILE:HG22	15:AP:61:LEU:HD13	1.37	1.06
28:A4:16:TYR:O	28:A4:17:GLN:HG3	1.53	1.06
34:BA:531:U:H4'	34:BA:532:A:H5''	1.31	1.06
34:BA:1316:G:H5''	49:BQ:17:LYS:HD2	1.18	1.06
37:BE:102:LEU:HD22	37:BE:176:GLU:HB2	1.37	1.06
38:BF:64:VAL:HB	38:BF:99:VAL:HG11	1.32	1.06
39:BG:55:ALA:O	39:BG:59:ARG:HG2	1.54	1.06
40:BH:11:ILE:HG22	40:BH:12:LEU:H	1.21	1.06
44:BL:82:ALA:HB1	44:BL:96:LEU:HD11	1.33	1.06
2:AA:138:G:H2'	2:AA:139:G:H4'	1.06	1.06
2:AA:270(X):G:C2'	2:AA:270(Y):G:H5'	1.86	1.06
2:AA:1262:A:H2	29:A5:10:LYS:HE2	1.12	1.06
2:AA:1388:G:O2'	2:AA:1525:G:H5'	1.55	1.06
2:AA:1718:G:H2'	2:AA:1725:G:H8	1.21	1.06
2:AA:1857:G:H1	2:AA:1884:A:N6	1.54	1.06
2:AA:2006:C:O2'	2:AA:2823:A:N3	1.89	1.06
2:AA:2121:G:H2'	2:AA:2122:U:C6	1.90	1.06
2:AA:2316:C:H4'	7:AG:151:ILE:HD11	1.32	1.06
2:AA:2821:A:OP2	5:AE:207:GLY:HA3	1.55	1.06
2:AA:2848:G:N2	2:AA:2867:G:H1'	1.69	1.06
3:AC:104:LEU:HD12	3:AC:130:ILE:HD11	1.06	1.06
14:AO:65:ASP:HA	14:AO:108:VAL:HG13	1.38	1.06
25:A1:13:ARG:O	25:A1:16:LYS:HB2	1.55	1.06
25:A1:74:MET:CG	25:A1:117:ARG:HH22	1.68	1.06
27:A3:38:VAL:HA	27:A3:40:GLN:HE21	1.20	1.06
34:BA:1053:G:H5'	34:BA:1054:C:H5'	1.36	1.06
37:BE:136:VAL:HA	37:BE:139:LYS:HZ2	1.12	1.06
37:BE:185:ILE:HG22	37:BE:199:TYR:HB2	1.32	1.06
38:BF:11:ARG:HG2	38:BF:15:THR:O	1.55	1.06
39:BG:12:CYS:HA	39:BG:19:LEU:HB2	1.15	1.06
40:BH:79:GLU:HG3	40:BH:93:PRO:CD	1.85	1.06
41:BI:23:LYS:O	41:BI:26:ILE:HB	1.56	1.06
1:AB:43:C:N4	1:AB:45:A:H62	1.54	1.05
2:AA:1559:G:C6	2:AA:1560:G:H4'	1.91	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1890:A:C2	2:AA:1891:G:H1'	1.91	1.05
3:AC:176:GLY:HA3	3:AC:185:LEU:HD23	1.36	1.05
15:AP:15:THR:HB	15:AP:20:ILE:CG1	1.85	1.05
21:AV:172:LEU:HG	21:AV:173:PRO:HD2	1.35	1.05
27:A3:37:LEU:HD13	27:A3:69:PHE:HB2	1.13	1.05
34:BA:192:U:H1'	55:BW:103:GLY:HA2	1.08	1.05
34:BA:626:U:H2'	34:BA:627:G:C8	1.91	1.05
34:BA:968:A:H5''	34:BA:969:A:OP2	1.54	1.05
34:BA:1000:U:O4	34:BA:1041:A:N1	1.89	1.05
40:BH:122:GLU:O	40:BH:123:LEU:HD22	1.54	1.05
51:BS:28:ARG:HD2	51:BS:29:ASP:OD2	1.55	1.05
53:BU:72:ARG:HG2	53:BU:72:ARG:HH11	1.19	1.05
2:AA:558:G:P	12:AM:91:LYS:HB3	1.96	1.05
2:AA:616:A:H5''	6:AF:42:ARG:NH1	1.71	1.05
2:AA:671:C:N3	2:AA:809:G:N2	2.04	1.05
2:AA:800:A:O2'	2:AA:801:G:H3'	1.56	1.05
2:AA:880:G:H1	2:AA:897:C:N4	1.54	1.05
2:AA:882:G:H1	2:AA:894:C:N4	1.53	1.05
2:AA:950:G:H2'	2:AA:951:C:H6	1.20	1.05
2:AA:1559:G:O6	2:AA:1560:G:H4'	1.56	1.05
2:AA:1666:G:C2'	2:AA:1667:G:H5'	1.86	1.05
2:AA:1940:U:H2'	2:AA:1940:U:O2	1.53	1.05
2:AA:2810:A:H2'	2:AA:2811:G:H5'	1.38	1.05
4:AD:209:ASN:HB3	4:AD:213:LYS:NZ	1.71	1.05
6:AF:55:ARG:C	6:AF:79:ARG:NE	2.13	1.05
7:AG:98:PHE:HA	7:AG:104:PHE:HD2	1.20	1.05
8:AH:44:VAL:HA	8:AH:49:ILE:HG22	1.34	1.05
13:AN:3:GLN:HA	13:AN:21:VAL:HG11	1.33	1.05
18:AS:88:ARG:HD3	18:AS:91:GLY:O	1.55	1.05
34:BA:1134:G:N2	34:BA:1140:C:N3	2.04	1.05
34:BA:1182:G:H4'	34:BA:1183:A:O5'	1.52	1.05
39:BG:60:GLU:CA	39:BG:63:LYS:HD2	1.85	1.05
39:BG:145:GLU:HG3	39:BG:184:LYS:HE2	1.38	1.05
49:BQ:9:LYS:NZ	49:BQ:10:ALA:HB2	1.72	1.05
50:BR:33:THR:HG23	50:BR:63:ARG:NH1	1.69	1.05
1:AB:21:G:H1	1:AB:62:C:N4	1.52	1.05
2:AA:271(B):G:H5''	2:AA:271(C):U:H5'	1.07	1.05
2:AA:580:C:H2'	2:AA:581:C:C6	1.92	1.05
2:AA:930:U:C2'	2:AA:931:G:H1'	1.86	1.05
2:AA:931:G:H2'	2:AA:932:G:C8	1.90	1.05
2:AA:1083:U:H3'	9:AI:36:PRO:C	1.55	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1263:U:H4'	29:A5:16:ARG:CZ	1.85	1.05
2:AA:1450:C:N3	2:AA:1461:G:N2	2.04	1.05
2:AA:1625:C:H2'	2:AA:1626:G:C4'	1.86	1.05
2:AA:1800:C:H6	2:AA:1800:C:H3'	1.19	1.05
2:AA:2055:C:H2'	2:AA:2504:U:H5'	1.34	1.05
4:AD:76:ARG:HH11	4:AD:113:MET:HB2	1.22	1.05
4:AD:166:LYS:HD2	4:AD:171:VAL:HG12	1.33	1.05
5:AE:200:ASP:OD2	5:AE:264:LEU:HA	1.56	1.05
6:AF:37:ALA:HB2	6:AF:102:LEU:HD12	1.37	1.05
9:AJ:71:ILE:CG1	11:AL:61:TYR:HB2	1.85	1.05
26:A2:62:GLU:HG3	26:A2:98:ILE:HD11	1.36	1.05
34:BA:399:G:H2'	34:BA:400:C:H6	1.21	1.05
35:BB:34:G:H2'	35:BB:35:A:C5'	1.86	1.05
38:BF:83:ARG:HG3	38:BF:87:LEU:HD11	1.33	1.05
39:BG:53:ASP:O	39:BG:56:VAL:HB	1.55	1.05
40:BH:141:GLN:HA	40:BH:143:ARG:HH21	1.19	1.05
51:BS:39:TYR:CZ	51:BS:41:PRO:HG3	1.91	1.05
2:AA:616:A:H5''	6:AF:42:ARG:HH12	0.91	1.05
2:AA:1417:C:N4	2:AA:1581:G:H22	1.53	1.05
2:AA:2543:G:H2'	2:AA:2544:G:C8	1.92	1.05
6:AF:111:VAL:HA	6:AF:220:THR:HG23	1.38	1.05
13:AN:83:ALA:O	13:AN:84:CYS:SG	2.13	1.05
15:AP:45:GLN:NE2	15:AP:153:PRO:HB2	1.71	1.05
32:A8:29:LYS:HD3	32:A8:36:LYS:NZ	1.71	1.05
34:BA:599:C:H4'	43:BK:130:GLY:HA3	1.36	1.05
35:BB:62:A:O2'	35:BB:63:C:H5'	1.55	1.05
40:BH:81:GLU:HB3	40:BH:90:VAL:HG22	1.07	1.05
44:BL:38:GLN:O	44:BL:40:LEU:HG	1.55	1.05
47:BO:60:LEU:H	47:BO:60:LEU:HD22	1.22	1.05
47:BO:85:ILE:HD11	47:BO:98:TYR:HB2	1.38	1.05
50:BR:25:THR:HA	50:BR:28:GLN:HG2	1.37	1.05
51:BS:46:PRO:HG2	51:BS:47:ASP:H	1.16	1.05
55:BW:37:SER:O	55:BW:41:VAL:HG23	1.53	1.05
1:AB:8:U:C2'	1:AB:9:G:H8	1.69	1.05
2:AA:581:C:H5''	25:A1:32:TYR:HB2	1.36	1.05
2:AA:792:G:N2	2:AA:2072:G:H1'	1.72	1.05
2:AA:2083:G:H2'	2:AA:2084:C:C6	1.92	1.05
2:AA:2671:A:H2'	2:AA:2672:G:H8	1.20	1.05
2:AA:2779:U:H1'	2:AA:2781:A:N6	1.71	1.05
2:AA:2803:C:H2'	2:AA:2803:C:O2	1.55	1.05
3:AC:41:VAL:HB	3:AC:176:GLY:O	1.57	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:131:LEU:HA	4:AD:134:ILE:HD12	1.06	1.05
12:AM:57:TYR:HB2	12:AM:135:ILE:HG21	1.36	1.05
14:AO:92:ASP:HB2	14:AO:118:LEU:HD22	1.06	1.05
15:AP:65:ARG:NH1	15:AP:85:ILE:HD13	1.69	1.05
18:AS:29:LEU:HD22	18:AS:107:LEU:HD21	1.32	1.05
19:AT:24:LEU:HD21	19:AT:73:ASP:OD1	1.55	1.05
24:A0:78:LYS:O	24:A0:82:GLU:CB	2.05	1.05
30:A6:19:GLY:HA3	30:A6:42:PRO:CG	1.87	1.05
34:BA:761:G:H5''	52:BT:102:GLY:CA	1.86	1.05
34:BA:959:A:H3'	34:BA:960:U:H5''	1.35	1.05
34:BA:1521:G:H2'	34:BA:1522:U:H6	1.21	1.05
37:BE:15:VAL:CG2	37:BE:209:ARG:HD2	1.86	1.05
38:BF:182:ILE:HG23	38:BF:203:PHE:HA	1.37	1.05
43:BK:6:ILE:HD12	43:BK:85:ARG:NH1	1.72	1.05
2:AA:642:G:H21	2:AA:646:A:N6	1.53	1.04
2:AA:1353:A:C6	2:AA:1378:A:N1	2.25	1.04
2:AA:1818:U:O5'	4:AD:155:ARG:HG3	1.56	1.04
2:AA:1977:A:H2'	2:AA:1978:A:H8	0.93	1.04
2:AA:2209:C:N4	2:AA:2215:G:H1	1.56	1.04
2:AA:2308:G:H5'	2:AA:2309:A:OP1	1.55	1.04
2:AA:2648:C:N4	2:AA:2672:G:H1	1.54	1.04
2:AA:2822:G:H5''	5:AE:258:TYR:OH	1.55	1.04
5:AE:44:TYR:HA	5:AE:309:PRO:HD2	1.37	1.04
6:AF:153:VAL:HG11	6:AF:207:LEU:HD13	1.37	1.04
10:AK:83:ALA:HB2	10:AK:89:LEU:HA	1.05	1.04
19:AT:33:SER:O	19:AT:37:VAL:HB	1.54	1.04
21:AV:112:LEU:HD21	21:AV:171:VAL:HB	1.38	1.04
23:AX:1:MET:HE1	23:AX:3:ARG:HD2	1.39	1.04
34:BA:452:A:H2'	34:BA:453:A:H8	1.21	1.04
39:BG:143:GLY:HA2	39:BG:185:PHE:O	1.57	1.04
42:BJ:106:GLN:HA	42:BJ:109:ASN:HD22	1.19	1.04
53:BU:53:ARG:HD2	53:BU:58:LEU:O	1.56	1.04
1:AB:8:U:H2'	1:AB:9:G:H8	0.97	1.04
2:AA:138:G:C2'	2:AA:139:G:H4'	1.86	1.04
2:AA:863:A:H2'	2:AA:864:G:H8	1.17	1.04
2:AA:1969:A:H4'	2:AA:1970:A:H5'	1.36	1.04
2:AA:2146:C:H2'	2:AA:2147:G:N3	1.73	1.04
2:AA:2471:C:N4	2:AA:2479:G:H1	1.54	1.04
3:AC:181:PRO:HD2	3:AC:184:LYS:HD2	1.34	1.04
4:AD:107:LYS:N	4:AD:194:VAL:O	1.90	1.04
7:AG:82:GLU:HA	7:AG:85:GLN:NE2	1.71	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:30:GLY:O	8:AH:78:VAL:HG13	1.57	1.04
8:AH:102:LEU:HD22	8:AH:122:ILE:HD13	1.36	1.04
10:AK:6:LEU:HD22	10:AK:14:LYS:HD3	1.35	1.04
21:AV:52:PHE:H	21:AV:65:LEU:HD11	1.18	1.04
34:BA:1475:G:H2'	34:BA:1476:G:C8	1.92	1.04
35:BC:7:U:H4'	35:BC:8:U:OP2	1.57	1.04
39:BG:12:CYS:HB3	39:BG:33:MET:SD	1.97	1.04
40:BH:104:ALA:HA	40:BH:107:ARG:NH1	1.70	1.04
54:BV:40:ILE:HG12	54:BV:71:LEU:HD23	1.38	1.04
55:BW:56:MET:SD	55:BW:88:VAL:HG21	1.97	1.04
2:AA:25:U:H2'	2:AA:26:G:C8	1.91	1.04
2:AA:58:G:H2'	2:AA:73:A:N6	1.72	1.04
2:AA:401:A:H2'	2:AA:402:A:H8	1.23	1.04
2:AA:404:C:H4'	2:AA:405:U:H5'	1.05	1.04
2:AA:752:A:C6	2:AA:1781:C:H1'	1.92	1.04
2:AA:791:C:C2	2:AA:793:A:O2'	2.10	1.04
2:AA:1993:U:H4'	5:AE:228:ARG:HH21	1.20	1.04
2:AA:2135:A:H3'	2:AA:2135:A:N3	1.71	1.04
7:AG:90:LEU:HD13	48:BP:3:ARG:HH12	1.15	1.04
10:AK:31:PHE:CZ	10:AK:36:ALA:HB3	1.92	1.04
34:BA:12:U:H4'	34:BA:526:C:H4'	1.35	1.04
34:BA:118:U:H2'	34:BA:288:A:N1	1.73	1.04
35:BC:20:G:H21	35:BC:21:A:H5'	0.90	1.04
37:BE:55:PHE:HA	37:BE:58:ILE:HD12	1.08	1.04
39:BG:38:TYR:HB2	39:BG:39:PRO:HD2	1.36	1.04
40:BH:78:HIS:HB3	43:BK:107:LEU:HD21	1.38	1.04
40:BH:79:GLU:HG3	40:BH:93:PRO:HD3	1.34	1.04
41:BI:23:LYS:HE3	41:BI:61:LEU:HD11	1.37	1.04
1:AB:69:G:H5'	1:AB:70:C:OP2	1.57	1.04
2:AA:80:G:H1	2:AA:106:C:N4	1.56	1.04
2:AA:711:G:N2	2:AA:720:C:N3	2.06	1.04
2:AA:962:G:H2'	2:AA:963:U:C6	1.92	1.04
2:AA:1022:G:H2'	2:AA:1025:G:O6	1.56	1.04
2:AA:1262:A:C2	29:A5:10:LYS:HE2	1.91	1.04
2:AA:1911:U:O2'	2:AA:1912:A:H5'	1.57	1.04
2:AA:2052:G:H1'	5:AE:245:ARG:O	1.55	1.04
2:AA:2073:C:H2'	2:AA:2074:U:H6	1.20	1.04
2:AA:2312:U:C5'	7:AG:53:LYS:HA	1.86	1.04
2:AA:2862:G:H2'	2:AA:2863:C:C6	1.92	1.04
4:AD:85:ASN:N	4:AD:85:ASN:HD22	1.54	1.04
6:AF:161:ASP:O	6:AF:162:VAL:HG23	1.57	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:98:PHE:HA	7:AG:104:PHE:CD2	1.93	1.04
10:AK:7:LYS:HE2	10:AK:12:LYS:HZ3	1.21	1.04
13:AN:42:THR:HG21	13:AN:57:VAL:HA	1.37	1.04
23:AX:8:LEU:HA	23:AX:54:VAL:CG1	1.87	1.04
24:A0:51:LEU:HD23	24:A0:66:VAL:HG22	1.34	1.04
34:BA:93:G:H2'	34:BA:95:U:O4'	1.56	1.04
34:BA:328:C:H4'	34:BA:329:A:O5'	1.52	1.04
34:BA:761:G:H5''	52:BT:102:GLY:HA3	1.39	1.04
34:BA:1266:G:H2'	34:BA:1268:A:OP2	1.56	1.04
34:BA:1399:C:H4'	34:BA:1400:C:O5'	1.54	1.04
35:BB:37:G:N2	36:B1:63:C:C4	2.25	1.04
42:BJ:126:ASP:O	42:BJ:129:GLU:HB2	1.58	1.04
47:BO:34:ARG:HH21	47:BO:61:THR:HG21	1.21	1.04
48:BP:10:PRO:HG2	48:BP:18:ALA:HB1	1.38	1.04
2:AA:1050:A:O2'	2:AA:1051:G:H5'	1.58	1.04
2:AA:1058:G:H4'	9:AI:2:THR:C	1.83	1.04
2:AA:1791:A:O2'	4:AD:204:PHE:HB2	1.58	1.04
2:AA:2043:C:C5	2:AA:2777:G:H1'	1.93	1.04
2:AA:2624:G:H1'	29:A5:22:HIS:NE2	1.72	1.04
4:AD:213:LYS:C	4:AD:215:LYS:N	2.11	1.04
5:AE:226:HIS:HA	5:AE:229:GLN:HG3	1.34	1.04
6:AF:37:ALA:HB1	6:AF:107:ARG:NH2	1.72	1.04
10:AK:3:VAL:CB	10:AK:19:LYS:O	2.05	1.04
10:AK:7:LYS:CA	10:AK:14:LYS:HG2	1.88	1.04
21:AV:148:THR:HG22	21:AV:168:VAL:H	1.21	1.04
23:AX:9:VAL:H	23:AX:54:VAL:HG12	0.91	1.04
34:BA:263:A:O2'	34:BA:264:U:H5''	1.56	1.04
34:BA:754:C:H5'	34:BA:755:G:H8	1.14	1.04
34:BA:1004:A:H5''	34:BA:1025:U:C5	1.93	1.04
35:BB:1:G:C6	35:BB:73:A:N1	2.25	1.04
35:BB:34:G:N2	35:BB:35:A:N1	2.02	1.04
39:BG:58:LEU:HD13	39:BG:59:ARG:NH1	1.73	1.04
42:BJ:69:VAL:CG1	42:BJ:104:LEU:HD21	1.87	1.04
46:BN:61:ALA:HB1	46:BN:94:ALA:HB2	1.06	1.04
48:BP:77:ASN:HB2	48:BP:80:ARG:NH1	1.73	1.04
51:BS:6:LEU:HD23	51:BS:17:TYR:HD2	1.18	1.04
55:BW:8:ARG:NH1	55:BW:8:ARG:HB2	1.72	1.04
1:AB:46:A:H2'	1:AB:47:C:C6	1.93	1.03
1:AB:115:G:H5'	16:AQ:59:ALA:CB	1.87	1.03
2:AA:574:C:H41	2:AA:2054:A:H5''	1.21	1.03
2:AA:1142:U:H6	2:AA:142(A):A:H5'	1.15	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1422:G:H2'	2:AA:1423:G:H8	1.20	1.03
2:AA:1482:U:H3'	2:AA:1482:U:H6	1.15	1.03
2:AA:1746:G:H2'	2:AA:1747:G:C8	1.93	1.03
2:AA:1771:C:N4	2:AA:1980:G:H1	1.56	1.03
2:AA:2312:U:H5'	7:AG:53:LYS:HA	1.07	1.03
6:AF:194:PHE:CZ	6:AF:207:LEU:HD12	1.93	1.03
9:AI:80:ILE:HG23	9:AI:103:LYS:HD2	1.38	1.03
9:AJ:102:ILE:HG21	9:AJ:118:LEU:HD11	1.38	1.03
10:AK:111:ASP:CG	10:AK:112:LYS:H	1.62	1.03
10:AK:124:LEU:HG	10:AK:145:VAL:O	1.56	1.03
13:AN:64:ARG:HH22	13:AN:100:GLY:CA	1.70	1.03
13:AN:97:ARG:HA	13:AN:117:LEU:HD12	1.38	1.03
13:AN:102:VAL:HG12	13:AN:103:ALA:H	1.20	1.03
16:AQ:27:LEU:HB2	16:AQ:33:ARG:NH2	1.73	1.03
17:AR:53:ASP:HA	17:AR:56:ARG:HG3	1.40	1.03
18:AS:38:TYR:HB3	29:A5:41:LEU:HD21	1.32	1.03
24:A0:52:ILE:HD13	24:A0:94:TYR:HB3	1.39	1.03
26:A2:78:VAL:HG23	26:A2:82:ARG:HB2	1.41	1.03
34:BA:277:C:H5''	52:BT:68:ARG:NH2	1.73	1.03
34:BA:715:A:H4'	34:BA:777:A:H61	1.23	1.03
34:BA:781:A:H2'	34:BA:782:A:H5'	1.36	1.03
34:BA:1192:C:H6	34:BA:1192:C:H3'	1.15	1.03
34:BA:1261:A:H61	34:BA:1274:G:H1'	1.17	1.03
35:BB:59:U:O2	35:BB:60:C:C2	2.10	1.03
48:BP:74:VAL:HG12	48:BP:78:ILE:HD11	1.38	1.03
53:BU:46:GLU:HB3	53:BU:85:LEU:CD1	1.88	1.03
2:AA:271(B):G:H4'	2:AA:271(C):U:OP2	1.56	1.03
2:AA:669:G:H5''	2:AA:670:A:OP2	1.58	1.03
2:AA:1781:C:H5'	2:AA:1782:C:OP1	1.58	1.03
2:AA:2295:C:N3	2:AA:2337:G:N2	2.04	1.03
2:AA:2520:C:O2'	2:AA:2521:C:H5'	1.58	1.03
2:AA:2616:C:H2'	2:AA:2617:C:H6	0.89	1.03
2:AA:2679:A:N3	5:AE:300:VAL:HG13	1.73	1.03
11:AL:25:GLY:HA2	11:AL:35:ILE:HD13	1.33	1.03
14:AO:67:ARG:HH12	14:AO:109:LEU:HD12	1.18	1.03
15:AP:45:GLN:HB2	15:AP:152:SER:O	1.57	1.03
15:AP:66:ASN:HB2	15:AP:70:ARG:HH21	0.88	1.03
22:AW:19:GLU:O	22:AW:23:LEU:HG	1.58	1.03
31:A7:34:ARG:NH1	31:A7:42:LEU:HD23	1.72	1.03
34:BA:332:G:O2'	34:BA:333:G:H5'	1.58	1.03
46:BN:111:ASP:OD2	46:BN:113:PRO:HD3	1.57	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:35:GLY:O	47:BO:82:VAL:HA	1.57	1.03
51:BS:20:VAL:HG22	51:BS:35:LYS:HA	1.40	1.03
2:AA:629:G:H21	2:AA:640:C:P	1.81	1.03
2:AA:1128:A:N6	2:AA:2518:A:H61	1.56	1.03
2:AA:1140:C:N3	12:AM:49:ARG:NH2	2.07	1.03
2:AA:1169:G:H1	2:AA:1180:C:N4	1.55	1.03
2:AA:1364:G:H3'	28:A4:3:LYS:CD	1.88	1.03
2:AA:2115:G:H4'	3:AC:126:LYS:HE2	1.40	1.03
2:AA:2491:U:O2	2:AA:2491:U:H2'	1.56	1.03
4:AD:135:PRO:HG2	4:AD:138:THR:HG21	1.39	1.03
8:AH:159:LYS:H	8:AH:162:ARG:NH1	1.56	1.03
10:AK:4:ILE:CB	10:AK:37:ILE:O	2.06	1.03
12:AM:12:VAL:CB	12:AM:38:VAL:HG22	1.89	1.03
21:AV:143:ILE:HG22	21:AV:144:GLY:H	1.23	1.03
25:A1:9:VAL:HG12	25:A1:13:ARG:NH2	1.72	1.03
25:A1:98:ILE:HG13	26:A2:13:ARG:NH2	1.73	1.03
34:BA:854:G:H3'	34:BA:871:U:O4	1.57	1.03
36:B1:59:A:H2'	36:B1:60:A:C5'	1.88	1.03
39:BG:83:SER:HA	39:BG:89:THR:OG1	1.57	1.03
39:BG:107:ARG:HH11	39:BG:107:ARG:HA	1.19	1.03
39:BG:128:VAL:HG21	39:BG:133:VAL:HG23	1.38	1.03
43:BK:19:VAL:HG23	43:BK:21:LYS:HG2	1.39	1.03
2:AA:16:G:H4'	29:A5:18:MET:CE	1.86	1.03
2:AA:748:G:H3'	2:AA:750:A:OP2	1.55	1.03
2:AA:792:G:H21	2:AA:2072:G:H1'	0.92	1.03
2:AA:818:G:N2	2:AA:1189:A:H62	1.55	1.03
2:AA:823:G:H2'	2:AA:824:A:H8	1.16	1.03
2:AA:955:C:O2'	2:AA:956:G:H5'	1.58	1.03
2:AA:2107:C:N3	2:AA:2182:G:N2	2.06	1.03
6:AF:55:ARG:HG3	6:AF:56:THR:N	1.67	1.03
8:AH:15:THR:HG22	8:AH:26:LYS:O	1.56	1.03
12:AM:135:ILE:CG2	12:AM:139:LEU:HD11	1.89	1.03
17:AR:6:CYS:HB3	17:AR:9:CYS:HB3	1.04	1.03
21:AV:3:LEU:HB3	21:AV:34:LEU:HB3	1.38	1.03
23:AX:3:ARG:HB2	23:AX:60:GLU:HA	1.38	1.03
25:A1:8:ILE:HA	25:A1:11:ARG:HD2	1.41	1.03
26:A2:75:LYS:HE2	26:A2:75:LYS:HA	1.40	1.03
28:A4:58:LYS:O	28:A4:61:LYS:HB2	1.57	1.03
34:BA:933:G:OP2	42:BJ:3:ARG:HG3	1.57	1.03
34:BA:1046:A:H2'	34:BA:1046:A:N3	1.73	1.03
35:BB:9:A:C2	35:BB:45:G:C5	2.46	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:82:GLU:HG3	38:BF:83:ARG:H	1.19	1.03
41:BI:83:ASP:CG	41:BI:84:ASN:H	1.60	1.03
43:BK:44:PHE:HE2	43:BK:109:ILE:HD13	1.21	1.03
46:BN:110:ASP:HB2	53:BU:88:LYS:HG3	1.41	1.03
2:AA:25:U:H3	2:AA:515:A:N6	1.57	1.03
2:AA:324:A:H62	2:AA:339:U:H1'	0.89	1.03
2:AA:1061:U:H4'	2:AA:1070:A:H1'	1.40	1.03
2:AA:1520:U:H2'	2:AA:1521:G:H5''	1.41	1.03
2:AA:2122:U:O2'	3:AC:166:ASP:HB2	1.58	1.03
2:AA:2180:U:H2'	2:AA:2181:G:C8	1.93	1.03
2:AA:2884:U:H2'	2:AA:2885:C:O4'	1.55	1.03
4:AD:210:LYS:O	4:AD:213:LYS:CB	2.06	1.03
6:AF:22:PHE:CZ	6:AF:115:LEU:HB3	1.93	1.03
6:AF:239:ALA:HB1	6:AF:242:GLU:OE2	1.59	1.03
7:AG:134:LEU:HD13	7:AG:136:ARG:HE	1.22	1.03
13:AN:60:ALA:HB1	13:AN:85:VAL:O	1.56	1.03
14:AO:94:ARG:HD2	14:AO:119:THR:O	1.57	1.03
15:AP:58:HIS:CG	15:AP:59:ASN:H	1.74	1.03
15:AP:134:PHE:O	15:AP:137:ARG:HB3	1.58	1.03
21:AV:71:MET:HB3	21:AV:78:PRO:HD3	1.36	1.03
21:AV:98:VAL:HA	21:AV:134:LEU:O	1.57	1.03
27:A3:69:PHE:O	27:A3:70:ILE:HD13	1.58	1.03
28:A4:17:GLN:HA	28:A4:33:VAL:HB	1.35	1.03
34:BA:1308:U:H3'	48:BP:99:ARG:HH12	0.89	1.03
35:BB:37:G:C8	35:BB:38:A:N7	2.26	1.03
38:BF:29:TYR:CE2	49:BQ:54:PRO:HG2	1.94	1.03
38:BF:33:LEU:HD11	49:BQ:54:PRO:CD	1.88	1.03
39:BG:31:CYS:HB3	39:BG:33:MET:SD	1.98	1.03
40:BH:10:MET:HA	40:BH:32:VAL:HG22	1.37	1.03
40:BH:79:GLU:OE1	43:BK:105:ARG:HB2	1.57	1.03
43:BK:37:ARG:HD2	43:BK:38:ILE:HD13	1.41	1.03
45:BM:32:ALA:HB2	45:BM:76:ASN:ND2	1.74	1.03
46:BN:15:ALA:HA	46:BN:78:GLN:NE2	1.73	1.03
2:AA:339:U:H2'	2:AA:340:A:C8	1.93	1.02
2:AA:775:G:H2'	2:AA:794:G:N7	1.71	1.02
2:AA:791:C:O2'	2:AA:792:G:H5''	1.58	1.02
2:AA:1024:G:N2	2:AA:1139:G:N2	2.06	1.02
2:AA:1726:G:H2'	2:AA:1727:U:H5'	1.36	1.02
2:AA:2469:A:H8	2:AA:2469:A:H5'	1.23	1.02
2:AA:2619:C:O2'	2:AA:2620:C:H5'	1.59	1.02
2:AA:2681:C:O2'	2:AA:2682:U:H5'	1.58	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:124:GLY:HA2	3:AC:137:LEU:HD11	1.38	1.02
4:AD:76:ARG:CG	4:AD:113:MET:HB3	1.89	1.02
5:AE:211:GLN:HG2	5:AE:212:GLY:H	0.90	1.02
5:AE:222:ARG:HH11	5:AE:222:ARG:HG3	0.91	1.02
8:AH:67:THR:HG22	8:AH:71:LEU:HD11	1.39	1.02
8:AH:85:ALA:HA	8:AH:131:ILE:HG22	1.39	1.02
9:AJ:80:ILE:HG23	9:AJ:103:LYS:HD2	1.35	1.02
10:AK:7:LYS:CG	10:AK:12:LYS:HG2	1.89	1.02
10:AK:75:LEU:HD13	10:AK:76:THR:H	1.18	1.02
10:AK:77:VAL:HG21	10:AK:141:LEU:HD11	1.41	1.02
20:AU:48:VAL:HG13	20:AU:97:ARG:O	1.58	1.02
25:A1:17:VAL:O	25:A1:20:ARG:HB2	1.59	1.02
25:A1:18:LEU:O	25:A1:21:ALA:HB3	1.59	1.02
29:A5:15:LYS:HB2	29:A5:15:LYS:HZ2	1.09	1.02
34:BA:61:G:H2'	34:BA:62:U:O4'	1.59	1.02
34:BA:975:A:H4'	34:BA:976:G:H5'	1.37	1.02
38:BF:139:GLN:O	38:BF:143:GLU:HB2	1.58	1.02
39:BG:31:CYS:HB3	39:BG:33:MET:CG	1.89	1.02
42:BJ:65:ALA:HA	42:BJ:68:ASN:HD22	1.21	1.02
2:AA:109:G:N2	2:AA:110:G:H1'	1.73	1.02
2:AA:514:A:H2'	2:AA:515:A:H8	1.21	1.02
2:AA:980:A:H2'	2:AA:981:A:C8	1.94	1.02
2:AA:1031:G:H1	2:AA:1123:C:N4	1.55	1.02
2:AA:1082:U:O2	9:AI:3:ILE:HG23	1.59	1.02
2:AA:1252:G:C8	2:AA:1253:A:H1'	1.95	1.02
2:AA:1429:G:H2'	2:AA:1430:C:C6	1.94	1.02
2:AA:1482:U:H1'	2:AA:1512:G:N2	1.74	1.02
2:AA:1936:A:H5'	2:AA:1937:A:C2	1.94	1.02
2:AA:1965:C:H3'	2:AA:1966:A:C8	1.93	1.02
2:AA:2737:G:H1	2:AA:2767:C:N4	1.56	1.02
4:AD:66:PHE:C	4:AD:67:LYS:HD2	1.85	1.02
8:AH:58:LYS:O	8:AH:61:ARG:HB3	1.59	1.02
8:AH:114:ILE:HG13	8:AH:147:ILE:HD11	1.36	1.02
9:AI:1:MET:HE2	9:AJ:86:LYS:CD	1.89	1.02
10:AK:7:LYS:HG3	10:AK:12:LYS:HG2	1.40	1.02
23:AX:31:LEU:HD22	23:AX:32:GLN:H	0.86	1.02
24:A0:96:ARG:HH21	24:A0:117:VAL:HG23	0.87	1.02
24:A0:96:ARG:NH2	24:A0:117:VAL:HG23	1.73	1.02
25:A1:27:SER:O	25:A1:31:GLN:HG3	1.60	1.02
25:A1:74:MET:HE2	25:A1:78:THR:HG21	1.38	1.02
34:BA:190(F):G:H4'	34:BA:190(G):G:OP2	1.54	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:710:G:O2'	34:BA:711:G:H5'	1.59	1.02
34:BA:1239:A:H2'	34:BA:1298:C:N4	1.75	1.02
38:BF:36:ASP:O	38:BF:39:ILE:HB	1.56	1.02
39:BG:141:ARG:HB3	39:BG:142:PRO:HD2	1.40	1.02
2:AA:640:C:H2'	2:AA:641:C:H5'	1.35	1.02
2:AA:671:C:N4	2:AA:809:G:N1	2.02	1.02
2:AA:873:G:OP1	15:AP:30:GLN:HB3	1.57	1.02
2:AA:955:C:OP2	15:AP:10:ILE:HB	1.60	1.02
2:AA:974(A):C:H6	2:AA:1186:G:N1	1.56	1.02
2:AA:978:G:N2	2:AA:985:C:N3	2.06	1.02
2:AA:1465:G:H2'	2:AA:1466:G:C8	1.94	1.02
2:AA:2495:G:H4'	15:AP:101:MET:CG	1.89	1.02
2:AA:2649:U:H2'	2:AA:2650:U:C6	1.94	1.02
2:AA:2658:C:H2'	2:AA:2659:G:H5'	1.38	1.02
6:AF:61:PHE:HB3	6:AF:65:ARG:NH1	1.72	1.02
7:AG:93:LEU:HD13	7:AG:106:PHE:CE2	1.94	1.02
12:AM:10:VAL:HB	12:AM:36:VAL:HA	1.36	1.02
34:BA:386:C:C2'	34:BA:387:U:H5'	1.88	1.02
34:BA:736:C:H5'	41:BI:89:MET:HE1	1.41	1.02
39:BG:26:CYS:O	39:BG:31:CYS:HB2	1.60	1.02
2:AA:234:C:N3	2:AA:430:G:N2	2.06	1.02
2:AA:285:C:H42	2:AA:354:G:N2	1.58	1.02
2:AA:535:C:H4'	25:A1:53:LYS:HE2	1.42	1.02
2:AA:1697:G:H5''	2:AA:1698:A:C5'	1.89	1.02
2:AA:1967:C:H42	2:AA:1968:G:N2	1.58	1.02
2:AA:2397:G:N2	2:AA:2420:C:H1'	1.75	1.02
2:AA:2581:G:H1	2:AA:2610:C:C1'	1.71	1.02
2:AA:2731:G:H5'	5:AE:265:ASN:OD1	1.58	1.02
4:AD:143:ILE:HD12	4:AD:143:ILE:H	1.19	1.02
5:AE:271:ILE:HG12	5:AE:294:THR:HA	1.40	1.02
6:AF:32:GLY:HA3	6:AF:36:ARG:HH21	1.21	1.02
6:AF:55:ARG:O	6:AF:79:ARG:NH2	1.93	1.02
6:AF:140:VAL:HG11	6:AF:236:THR:HG22	1.42	1.02
7:AG:51:ARG:HH11	7:AG:72:LYS:HB2	1.24	1.02
16:AQ:102:LEU:HG	16:AQ:129:ILE:HD12	1.41	1.02
22:AW:53:ILE:HG22	22:AW:57:LYS:HE3	1.07	1.02
24:A0:67:LEU:HD21	24:A0:72:ASP:H	1.24	1.02
27:A3:14:ARG:C	27:A3:14:ARG:HD2	1.84	1.02
32:A8:16:ILE:HD12	32:A8:16:ILE:N	1.74	1.02
34:BA:92:C:H2'	34:BA:93:G:H8	1.19	1.02
34:BA:313:A:H2'	34:BA:314:C:H6	1.13	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:551:U:H2'	34:BA:552:U:C6	1.94	1.02
34:BA:734:G:H2'	34:BA:735:C:C6	1.95	1.02
37:BE:108:ILE:O	37:BE:112:VAL:HG23	1.60	1.02
38:BF:19:GLU:CA	38:BF:54:ARG:HH21	1.73	1.02
38:BF:52:LEU:HA	38:BF:70:VAL:HG22	1.36	1.02
38:BF:153:VAL:HB	38:BF:166:GLU:HB3	1.39	1.02
39:BG:179:GLU:C	39:BG:181:MET:H	1.67	1.02
41:BI:77:ARG:HA	41:BI:80:ARG:HD2	1.05	1.02
43:BK:39:LEU:HB3	43:BK:45:ILE:CG2	1.88	1.02
51:BS:26:ARG:HH21	51:BS:31:LYS:HE3	1.24	1.02
1:AB:104:A:H1'	21:AV:24:TYR:OH	1.60	1.02
2:AA:341:G:H2'	2:AA:342:G:O4'	1.59	1.02
2:AA:612:G:H4'	2:AA:616:A:C6	1.94	1.02
2:AA:1157:G:OP2	2:AA:1157:G:H3'	1.60	1.02
2:AA:1171:G:H3'	2:AA:1173:G:H5''	1.40	1.02
2:AA:1698:A:O2'	2:AA:1699:G:H3'	1.59	1.02
2:AA:2206:C:H2'	2:AA:2207:C:O4'	1.60	1.02
2:AA:2295:C:N4	2:AA:2337:G:N1	2.06	1.02
2:AA:2324:C:N3	2:AA:2331:G:N2	2.07	1.02
2:AA:2403:C:N4	2:AA:2414:G:H1	1.56	1.02
2:AA:2485:G:O2'	2:AA:2486:G:H5'	1.58	1.02
2:AA:2658:C:C2'	2:AA:2659:G:H5'	1.90	1.02
2:AA:2712:U:H3'	2:AA:2714:G:OP2	1.59	1.02
4:AD:115:ILE:HB	4:AD:127:ASN:OD1	1.60	1.02
4:AD:128:ALA:CB	4:AD:190:THR:HG22	1.90	1.02
10:AK:110:LEU:HD11	10:AK:133:LEU:HD22	1.42	1.02
12:AM:45:VAL:HA	12:AM:131:THR:C	1.84	1.02
12:AM:73:LYS:HB3	12:AM:140:GLY:CA	1.88	1.02
14:AO:92:ASP:HB3	14:AO:118:LEU:HB3	1.05	1.02
19:AT:23:LYS:N	19:AT:68:LEU:HG	1.75	1.02
23:AX:22:ALA:HA	23:AX:46:ASN:HD21	1.24	1.02
34:BA:821:G:H2'	34:BA:822:C:H6	1.25	1.02
34:BA:826:C:H1'	43:BK:15:ASN:ND2	1.73	1.02
37:BE:55:PHE:HE2	37:BE:218:ALA:HA	1.23	1.02
37:BE:200:ILE:HG22	37:BE:202:PRO:HD3	1.38	1.02
39:BG:141:ARG:HB2	39:BG:144:ASP:OD2	1.60	1.02
41:BI:23:LYS:HA	41:BI:26:ILE:CD1	1.89	1.02
43:BK:63:LEU:HD13	43:BK:63:LEU:H	0.90	1.02
47:BO:53:ARG:HG3	47:BO:69:TYR:OH	1.60	1.02
52:BT:5:VAL:C	52:BT:6:LEU:HD12	1.85	1.02
53:BU:21:LYS:NZ	53:BU:23:LYS:HB2	1.74	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:8:U:O2	1:AB:112:G:O6	1.76	1.01
2:AA:164:U:O2	2:AA:171:G:H4'	1.59	1.01
2:AA:270(A):A:H62	2:AA:270(Z):U:H5''	1.20	1.01
2:AA:584:C:N4	2:AA:1256:G:H1	1.58	1.01
2:AA:898:C:H3'	2:AA:899:A:H5''	1.37	1.01
2:AA:930:U:H2'	2:AA:931:G:C1'	1.90	1.01
2:AA:955:C:N3	2:AA:962:G:N2	2.07	1.01
2:AA:974(A):C:O4'	2:AA:1186:G:N2	1.93	1.01
2:AA:1451:C:H3'	2:AA:1453:A:H4'	1.40	1.01
2:AA:1612:C:N3	2:AA:1619:G:N2	2.08	1.01
2:AA:1752:C:N4	2:AA:1756:G:H1	1.58	1.01
2:AA:2464:C:N4	2:AA:2486:G:N1	2.00	1.01
8:AH:93:TYR:CZ	8:AH:106:VAL:HG13	1.93	1.01
10:AK:94:THR:CG2	10:AK:97:GLN:HG3	1.89	1.01
11:AL:75:ALA:HB3	11:AL:131:THR:HG21	1.42	1.01
21:AV:91:PRO:HD2	21:AV:127:PRO:HB3	1.39	1.01
25:A1:57:PHE:HA	25:A1:60:LEU:CD1	1.88	1.01
26:A2:50:ASP:N	26:A2:53:LYS:HD2	1.72	1.01
2:AA:291:C:N3	2:AA:349:G:N2	2.07	1.01
2:AA:557:U:C4'	12:AM:92:GLN:HE21	1.72	1.01
2:AA:675:A:O2'	2:AA:676:A:H5'	1.58	1.01
2:AA:775:G:H5''	2:AA:777:A:H1'	1.42	1.01
2:AA:1183:G:OP1	23:AX:29:ARG:HG3	1.58	1.01
2:AA:1534:G:N3	2:AA:1534:G:H2'	1.75	1.01
2:AA:1689:A:H2'	2:AA:1690:A:H8	1.22	1.01
2:AA:1697:G:H5''	2:AA:1698:A:H5'	1.04	1.01
2:AA:1936:A:C1'	2:AA:1940:U:N3	2.22	1.01
2:AA:2125:G:O2'	2:AA:2126:A:H4'	1.57	1.01
2:AA:2148:G:H2'	2:AA:2149:G:O4'	1.58	1.01
2:AA:2371:G:H5'	30:A6:46:LYS:HD3	1.42	1.01
6:AF:82:GLN:H	6:AF:87:ARG:HD3	1.22	1.01
12:AM:52:GLN:HA	12:AM:55:GLU:HG3	1.42	1.01
18:AS:55:ALA:HA	18:AS:107:LEU:HD12	1.38	1.01
26:A2:78:VAL:HB	26:A2:80:TYR:CD1	1.94	1.01
29:A5:15:LYS:HA	29:A5:18:MET:HG2	1.38	1.01
30:A6:11:LYS:HZ3	32:A8:35:GLY:CA	1.74	1.01
34:BA:741:G:H2'	34:BA:742:G:H8	1.26	1.01
34:BA:944:G:H21	34:BA:1339:A:H62	1.06	1.01
34:BA:1268:A:H4'	56:BX:20:LYS:HA	1.39	1.01
34:BA:1539:C:N3	36:B1:50:G:N2	2.09	1.01
35:BB:28:C:O2'	35:BB:29:A:H5'	1.60	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:61:LEU:HA	37:BE:64:ARG:CD	1.90	1.01
37:BE:115:LEU:HA	37:BE:118:LEU:HD12	1.39	1.01
43:BK:24:THR:O	43:BK:60:ARG:HG3	1.60	1.01
50:BR:36:ILE:HD12	50:BR:63:ARG:HD3	1.02	1.01
52:BT:75:ARG:HG3	52:BT:75:ARG:HH11	1.23	1.01
2:AA:214:G:N2	2:AA:215:G:C2	2.27	1.01
2:AA:589:C:N3	2:AA:668:G:N2	2.05	1.01
2:AA:775:G:N2	2:AA:787:U:C2'	2.23	1.01
2:AA:930:U:H2'	2:AA:931:G:H1'	1.02	1.01
2:AA:1058:G:H1'	9:AI:3:ILE:HG13	1.07	1.01
2:AA:1935:G:N2	2:AA:1962:C:C2'	2.22	1.01
2:AA:2397:G:H2'	2:AA:2398:U:H6	1.26	1.01
2:AA:2495:G:C4'	15:AP:101:MET:HG3	1.91	1.01
2:AA:2781:A:H5''	2:AA:2782:G:H5'	1.38	1.01
2:AA:2819:G:H3'	2:AA:2821:A:H62	1.24	1.01
3:AC:99:ILE:HG23	3:AC:107:TRP:CZ3	1.96	1.01
5:AE:42:ALA:O	5:AE:75:THR:HG21	1.60	1.01
5:AE:211:GLN:HG2	5:AE:212:GLY:N	1.71	1.01
6:AF:3:ALA:HB3	6:AF:16:VAL:O	1.59	1.01
10:AK:6:LEU:HB3	10:AK:35:LEU:O	1.60	1.01
15:AP:42:TYR:HA	21:AV:119:ASN:ND2	1.74	1.01
23:AX:8:LEU:HA	23:AX:54:VAL:HG11	1.37	1.01
34:BA:129(A):G:N2	34:BA:190(G):G:C5	2.28	1.01
34:BA:668:G:H1	34:BA:738:C:N4	1.57	1.01
34:BA:858:G:H22	34:BA:869:G:H2'	0.85	1.01
37:BE:9:GLU:HG2	37:BE:217:ARG:NH2	1.75	1.01
48:BP:90:LEU:HD23	48:BP:93:ARG:HH11	1.24	1.01
50:BR:38:ARG:HB3	50:BR:38:ARG:HH11	0.86	1.01
51:BS:5:ARG:HH12	51:BS:24:ALA:HA	1.25	1.01
2:AA:997:G:OP1	25:A1:92:ARG:HB2	1.60	1.01
2:AA:1174:A:C2	2:AA:1175:U:H3'	1.94	1.01
2:AA:1492:G:H1	2:AA:1498:C:N4	1.59	1.01
2:AA:2447:G:H3'	2:AA:2500:U:OP2	1.60	1.01
8:AH:121:GLU:OE2	8:AH:134:GLY:HA2	1.61	1.01
13:AN:22:ILE:HG13	13:AN:41:ALA:HA	1.42	1.01
15:AP:16:ARG:HH11	15:AP:16:ARG:CB	1.73	1.01
15:AP:67:ALA:CA	15:AP:70:ARG:HD2	1.91	1.01
17:AR:10:GLY:CA	17:AR:52:THR:HB	1.90	1.01
18:AS:86:LEU:HD22	18:AS:87:PRO:HD3	1.39	1.01
25:A1:66:ASN:HA	25:A1:76:TYR:CZ	1.95	1.01
26:A2:61:VAL:HG22	26:A2:97:GLY:HA2	1.36	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:362:G:P	47:BO:34:ARG:HH22	1.82	1.01
34:BA:409:G:H1	34:BA:433:C:N4	1.57	1.01
35:BC:34:G:N2	36:B1:62:G:H22	1.59	1.01
39:BG:98:GLU:CD	39:BG:103:ASN:HD21	1.69	1.01
42:BJ:50:ILE:HD12	42:BJ:58:PRO:CB	1.90	1.01
55:BW:45:GLN:N	55:BW:91:LEU:HD13	1.76	1.01
56:BX:12:LYS:HB3	56:BX:18:TYR:CD2	1.95	1.01
2:AA:623:G:H2'	2:AA:624:C:H6	1.26	1.01
2:AA:679:C:H2'	2:AA:679:C:O2	1.57	1.01
2:AA:687:C:O2	2:AA:787:U:O3'	1.77	1.01
2:AA:1819:A:OP1	4:AD:154:VAL:HA	1.61	1.01
2:AA:2180:U:H2'	2:AA:2181:G:H8	1.20	1.01
2:AA:2360:A:OP1	32:A8:49:VAL:HG13	1.61	1.01
2:AA:2584:U:H2'	2:AA:2585:U:C6	1.95	1.01
2:AA:2688:U:O2	2:AA:2688:U:H2'	1.60	1.01
4:AD:89:ASN:HD21	4:AD:199:ARG:CZ	1.74	1.01
5:AE:222:ARG:HD2	5:AE:222:ARG:N	1.76	1.01
5:AE:269:ILE:HA	5:AE:297:LYS:NZ	1.76	1.01
6:AF:166:ILE:O	6:AF:168:ARG:HG3	1.60	1.01
7:AG:146:LYS:HG3	16:AQ:15:GLU:HG3	1.41	1.01
13:AN:42:THR:HG22	13:AN:58:VAL:H	1.23	1.01
14:AO:94:ARG:HH11	14:AO:120:LEU:HB2	1.25	1.01
16:AQ:10:MET:HB2	16:AQ:13:ARG:NH2	1.76	1.01
19:AT:9:HIS:HB2	19:AT:26:PHE:HA	1.39	1.01
21:AV:49:THR:HG22	21:AV:97:PRO:HD3	1.42	1.01
23:AX:26:LEU:CD1	23:AX:47:VAL:HG22	1.89	1.01
27:A3:38:VAL:HA	27:A3:40:GLN:NE2	1.76	1.01
28:A4:67:TYR:O	28:A4:68:ARG:HG3	1.60	1.01
31:A7:17:GLY:HA2	31:A7:44:VAL:HG23	1.41	1.01
34:BA:15:G:H2'	34:BA:16:A:H8	1.14	1.01
34:BA:131:C:N4	34:BA:231:G:N1	1.98	1.01
34:BA:192:U:H1'	55:BW:103:GLY:CA	1.91	1.01
34:BA:582:U:H5'	50:BR:64:ARG:NH2	1.75	1.01
34:BA:748:C:H6	34:BA:748:C:O5'	1.43	1.01
34:BA:1073:U:H2'	34:BA:1074:G:C8	1.96	1.01
34:BA:1226:C:C5	48:BP:104:ARG:HA	1.95	1.01
35:BB:51:G:H1	35:BB:63:C:N4	1.58	1.01
35:BC:37:G:H2'	35:BC:38:A:H8	0.87	1.01
39:BG:104:VAL:HG21	39:BG:140:VAL:HG21	1.41	1.01
42:BJ:37:ASN:HD22	42:BJ:38:LEU:N	1.59	1.01
45:BM:27:ALA:HB2	45:BM:85:LEU:HD11	1.43	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:95:ILE:O	46:BN:98:LEU:HB2	1.61	1.01
53:BU:56:THR:HB	53:BU:58:LEU:HG	1.41	1.01
55:BW:40:ALA:HB2	55:BW:55:ILE:CG2	1.91	1.01
2:AA:1288:U:H5''	2:AA:1289:C:OP2	1.61	1.00
2:AA:1364:G:C3'	28:A4:3:LYS:HD3	1.91	1.00
2:AA:1530:G:P	2:AA:1539:G:H1	1.83	1.00
2:AA:1571:A:H3'	2:AA:1571:A:N3	1.76	1.00
2:AA:1650:G:O2'	2:AA:1651:G:H5'	1.59	1.00
2:AA:2135:A:H62	2:AA:2150:U:H3'	1.26	1.00
4:AD:66:PHE:HD2	4:AD:67:LYS:HE3	1.26	1.00
4:AD:78:ALA:CB	4:AD:92:LEU:O	2.07	1.00
6:AF:93:LYS:HB2	6:AF:96:LYS:HG3	1.42	1.00
28:A4:21:VAL:HG12	28:A4:22:MET:H	1.23	1.00
34:BA:279:A:H1'	34:BA:281:G:N3	1.77	1.00
34:BA:1139:G:H1	34:BA:1143:G:N2	1.58	1.00
34:BA:1139:G:H22	34:BA:1143:G:H1	1.09	1.00
34:BA:1144:G:H22	34:BA:1146:A:H62	1.09	1.00
35:BB:53:G:O2'	35:BB:54:U:H5'	1.60	1.00
35:BB:66:A:H3'	35:BB:67:A:H8	1.26	1.00
39:BG:24:GLU:O	39:BG:27:TYR:HB2	1.60	1.00
41:BI:33:TYR:CD1	41:BI:75:LEU:HD23	1.95	1.00
41:BI:81:ILE:HG22	41:BI:82:ARG:N	1.75	1.00
42:BJ:50:ILE:HD12	42:BJ:58:PRO:HB3	1.06	1.00
43:BK:113:SER:HA	43:BK:117:GLY:O	1.59	1.00
44:BL:74:ILE:HA	44:BL:77:ILE:HD12	1.42	1.00
47:BO:27:LEU:HD23	47:BO:33:ARG:NH1	1.76	1.00
53:BU:21:LYS:HA	53:BU:55:ARG:HH12	1.19	1.00
2:AA:861:A:H2'	2:AA:862:G:H5'	1.42	1.00
2:AA:1625:C:H2'	2:AA:1626:G:O4'	1.59	1.00
2:AA:2397:G:H2'	2:AA:2398:U:C6	1.96	1.00
2:AA:2578:G:N7	5:AE:237:ASN:ND2	2.09	1.00
4:AD:95:TYR:HB2	4:AD:99:GLU:O	1.61	1.00
6:AF:205:ARG:HG2	6:AF:212:VAL:HG21	1.42	1.00
8:AH:85:ALA:HA	8:AH:131:ILE:CG2	1.90	1.00
20:AU:77:VAL:HA	20:AU:89:ARG:NH1	1.77	1.00
21:AV:53:ASP:HA	21:AV:65:LEU:HD21	1.43	1.00
24:A0:83:ILE:HA	24:A0:86:ARG:HG3	1.42	1.00
32:A8:16:ILE:HD13	32:A8:64:ARG:OXT	1.60	1.00
34:BA:191:G:O2'	55:BW:102:GLY:HA2	1.61	1.00
34:BA:1126:U:H2'	34:BA:1127:G:H8	1.23	1.00
34:BA:1293:G:H2'	34:BA:1294:G:H8	1.27	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1339:A:H2'	34:BA:1340:A:H5'	1.42	1.00
35:BB:19:G:H4'	35:BB:20:G:OP2	1.60	1.00
35:BC:74:C:H2'	35:BC:75:C:H5''	1.44	1.00
44:BL:93:ARG:HH21	44:BL:97:LYS:HD3	1.23	1.00
55:BW:13:LEU:HD12	55:BW:13:LEU:H	1.25	1.00
2:AA:138:G:H2'	2:AA:139:G:C4'	1.91	1.00
2:AA:270(B):A:O2'	2:AA:270(C):C:H6	1.43	1.00
2:AA:295:G:C6	2:AA:344:G:C6	2.50	1.00
2:AA:618:G:H2'	2:AA:618(A):C:C6	1.95	1.00
2:AA:965:C:H5'	2:AA:2273:A:H1'	1.02	1.00
2:AA:997:G:H5''	25:A1:92:ARG:HD2	1.03	1.00
2:AA:1084:A:P	9:AI:39:VAL:N	2.33	1.00
2:AA:2219:G:C2'	2:AA:2224:G:H5'	1.91	1.00
2:AA:2574:G:H2'	2:AA:2575:C:C6	1.96	1.00
2:AA:2715:C:H2'	2:AA:2716:U:H6	1.25	1.00
2:AA:2848:G:N2	2:AA:2849:U:H3	1.58	1.00
3:AC:123:VAL:HG12	3:AC:137:LEU:HD13	1.40	1.00
4:AD:164:LEU:HD13	4:AD:174:ARG:NH1	1.76	1.00
5:AE:180:ILE:O	5:AE:183:ASP:HB2	1.61	1.00
5:AE:269:ILE:HA	5:AE:297:LYS:HZ3	1.23	1.00
6:AF:168:ARG:HD2	6:AF:168:ARG:O	1.61	1.00
9:AI:7:ILE:HD13	11:AL:118:ALA:HA	1.42	1.00
12:AM:44:ALA:HB3	12:AM:132:LEU:CD2	1.91	1.00
21:AV:57:GLU:C	21:AV:59:GLY:H	1.64	1.00
34:BA:320:C:N3	34:BA:333:G:N2	2.09	1.00
34:BA:986:A:H4'	54:BV:55:LYS:HG3	1.39	1.00
37:BE:50:GLU:CD	37:BE:200:ILE:HB	1.86	1.00
37:BE:213:LEU:HD22	37:BE:214:ILE:HD13	1.43	1.00
54:BV:46:GLY:H	54:BV:62:ILE:HG23	1.22	1.00
2:AA:271(B):G:H5''	2:AA:271(C):U:C5'	1.90	1.00
2:AA:1451:C:H6	2:AA:1453:A:H4'	1.22	1.00
2:AA:1468:C:C4	2:AA:1524:G:N1	2.30	1.00
2:AA:1718:G:H2'	2:AA:1725:G:C8	1.96	1.00
2:AA:2386:C:C4'	27:A3:39:ARG:HE	1.74	1.00
14:AO:92:ASP:HB3	14:AO:118:LEU:CB	1.91	1.00
24:A0:38:VAL:HB	24:A0:39:PRO:HD3	1.40	1.00
2:AA:974:G:H4'	2:AA:974(A):C:OP1	1.62	1.00
2:AA:1129:A:C2	2:AA:2570:G:H1'	1.95	1.00
2:AA:1991:U:H6	2:AA:1991:U:H3'	1.19	1.00
2:AA:2785:C:H2'	2:AA:2786:U:C6	1.97	1.00
4:AD:139:LEU:O	4:AD:191:VAL:HB	1.62	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:61:PRO:HB3	5:AE:69:PRO:CA	1.90	1.00
5:AE:221:LYS:NZ	5:AE:233:ARG:HG2	1.75	1.00
6:AF:51:TYR:O	6:AF:55:ARG:HB3	1.62	1.00
6:AF:140:VAL:HB	6:AF:236:THR:HA	1.44	1.00
15:AP:66:ASN:O	15:AP:70:ARG:HG3	1.60	1.00
21:AV:100:THR:HA	21:AV:137:ASP:CG	1.86	1.00
34:BA:760:G:H1	52:BT:105:ALA:HB2	1.26	1.00
34:BA:1062:U:H2'	34:BA:1063:C:C5	1.97	1.00
35:BB:11:C:N3	35:BB:12:U:C4	2.29	1.00
2:AA:112:U:H5'	2:AA:112:U:H6	1.27	1.00
2:AA:1395:A:OP2	2:AA:1603:A:H5''	1.62	1.00
6:AF:238:SER:O	6:AF:241:ALA:HB3	1.61	1.00
9:AJ:71:ILE:HG12	11:AL:61:TYR:CB	1.91	1.00
11:AL:55:PRO:HD3	11:AL:73:PRO:HB3	1.43	1.00
23:AX:22:ALA:HA	23:AX:46:ASN:ND2	1.75	1.00
34:BA:1128:C:C1'	34:BA:1146:A:H61	1.74	1.00
35:BB:36:A:N6	36:B1:65:U:N3	2.08	1.00
41:BI:39:LYS:HD3	41:BI:64:GLN:NE2	1.76	1.00
2:AA:34:C:H2'	2:AA:455:C:N4	1.77	1.00
2:AA:1826:G:OP2	4:AD:227:VAL:HG11	1.60	1.00
5:AE:201:VAL:N	5:AE:266:LYS:HD2	1.77	1.00
5:AE:216:ARG:NH2	5:AE:255:GLN:HA	1.77	1.00
7:AG:56:ARG:HD3	35:BC:56:C:O2'	1.61	1.00
10:AK:93:ILE:HG12	10:AK:121:ILE:O	1.62	1.00
16:AQ:31:LYS:NZ	16:AQ:99:GLU:HB2	1.76	1.00
18:AS:84:ARG:NE	18:AS:84:ARG:HA	1.75	1.00
34:BA:318:G:O2'	34:BA:319:G:H5'	1.59	1.00
34:BA:953:G:O2'	48:BP:125:ARG:HA	1.62	1.00
34:BA:1443:G:C5'	34:BA:1446:A:H5'	1.90	1.00
40:BH:76:ILE:HD13	40:BH:142:LEU:HD13	1.03	1.00
47:BO:41:ARG:NH1	47:BO:57:LYS:HE3	1.77	1.00
52:BT:15:MET:HB2	52:BT:18:THR:HB	1.43	1.00
1:AB:103:U:H2'	1:AB:104:A:H5'	1.44	0.99
2:AA:586:A:C6	2:AA:1254:A:C2	2.50	0.99
2:AA:750:A:H2'	2:AA:751:A:H5''	1.41	0.99
2:AA:1903:G:H2'	2:AA:1904:G:C8	1.96	0.99
2:AA:2468:G:O2'	2:AA:2469:A:H5'	1.61	0.99
2:AA:2472:G:H2'	2:AA:2475:C:H42	0.83	0.99
6:AF:34:ALA:HB2	6:AF:110:ALA:HB1	1.44	0.99
15:AP:42:TYR:HD2	21:AV:119:ASN:HA	1.21	0.99
18:AS:90:ARG:HB2	18:AS:90:ARG:CZ	1.89	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:46:GLN:HE21	21:AV:50:GLY:CA	1.75	0.99
24:A0:18:LEU:HD11	24:A0:22:ARG:CZ	1.92	0.99
25:A1:13:ARG:H	25:A1:13:ARG:HH11	1.10	0.99
34:BA:1178:G:N2	34:BA:1180:A:H3'	1.77	0.99
39:BG:162:LEU:HD13	39:BG:181:MET:HG2	1.44	0.99
42:BJ:38:LEU:HA	42:BJ:41:ARG:HG3	1.42	0.99
2:AA:808:G:H2'	2:AA:809:G:H8	1.26	0.99
2:AA:871:U:H4'	15:AP:90:PHE:CE2	1.95	0.99
4:AD:128:ALA:HB2	4:AD:190:THR:CG2	1.92	0.99
12:AM:87:LEU:HB2	12:AM:98:PHE:CZ	1.96	0.99
18:AS:42:ARG:HG2	18:AS:43:GLY:H	1.26	0.99
34:BA:1164:G:N2	34:BA:1172:C:N3	2.09	0.99
34:BA:1538:C:H42	36:B1:51:G:H1	1.04	0.99
35:BB:34:G:N1	36:B1:65:U:H2'	1.76	0.99
42:BJ:113:GLU:HG2	42:BJ:113:GLU:O	1.59	0.99
49:BQ:23:ARG:NE	49:BQ:30:ALA:HB2	1.75	0.99
50:BR:39:LEU:HD11	50:BR:56:LEU:HB2	1.41	0.99
52:BT:38:ARG:HG3	52:BT:39:SER:H	1.26	0.99
2:AA:23:G:H2'	2:AA:24:G:H5'	1.45	0.99
2:AA:139:G:H3'	2:AA:141(A):C:H1'	1.44	0.99
2:AA:600:G:H5'	6:AF:30:LEU:CD1	1.91	0.99
2:AA:996:A:H5''	25:A1:93:LYS:HG3	1.44	0.99
2:AA:1063:G:N2	2:AA:1075:C:N3	2.10	0.99
2:AA:1353:A:N6	2:AA:1378:A:N1	2.09	0.99
2:AA:1527:G:H1	2:AA:1544:C:N4	1.59	0.99
2:AA:1668:A:H61	2:AA:1676:A:N6	1.60	0.99
2:AA:1991:U:H2'	2:AA:1992:G:H5''	1.42	0.99
2:AA:2135:A:H2'	2:AA:2152:G:N7	1.78	0.99
2:AA:2712:U:H2'	2:AA:712(A):A:H5''	1.43	0.99
5:AE:211:GLN:CG	5:AE:212:GLY:H	1.73	0.99
6:AF:194:PHE:HZ	6:AF:207:LEU:HD12	1.27	0.99
9:AJ:25:LEU:HD23	9:AJ:28:LYS:HD2	1.42	0.99
13:AN:1:MET:N	13:AN:32:TYR:HD2	1.60	0.99
15:AP:33:MET:O	15:AP:83:PHE:HB2	1.61	0.99
30:A6:16:ALA:C	30:A6:18:THR:H	1.65	0.99
34:BA:372:C:N4	34:BA:389:A:H62	1.59	0.99
35:BB:66:A:H3'	35:BB:67:A:C8	1.97	0.99
37:BE:9:GLU:HB2	37:BE:217:ARG:HH12	1.23	0.99
43:BK:12:ARG:NH1	43:BK:27:PRO:HD3	1.77	0.99
43:BK:22:GLU:HA	43:BK:63:LEU:HD11	1.43	0.99
44:BL:26:VAL:HG22	44:BL:61:ALA:HB3	1.40	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:135:G:N1	2:AA:144:C:N4	2.07	0.99
2:AA:247:G:H4'	2:AA:386:G:N3	1.77	0.99
7:AG:20:LYS:HG2	7:AG:76:ARG:HG2	1.40	0.99
12:AM:23:ALA:O	12:AM:26:VAL:HB	1.60	0.99
25:A1:98:ILE:HD11	26:A2:13:ARG:HE	1.26	0.99
27:A3:49:GLN:N	27:A3:49:GLN:HE21	1.61	0.99
34:BA:961:U:H3	34:BA:974:A:H61	1.09	0.99
39:BG:4:TYR:HE2	39:BG:8:VAL:HG22	1.27	0.99
39:BG:57:ARG:HH22	40:BH:107:ARG:HD3	1.24	0.99
42:BJ:138:LYS:HE2	42:BJ:142:GLU:OE1	1.63	0.99
2:AA:94:G:N2	22:AW:42:ASN:HD22	1.59	0.99
2:AA:364:C:H2'	2:AA:365:C:C5	1.98	0.99
2:AA:897:C:H4'	35:BB:56:C:C6	1.97	0.99
2:AA:1128:A:H2	2:AA:1129:A:C5	1.81	0.99
2:AA:1315:C:N3	2:AA:1337:G:N2	2.10	0.99
2:AA:1691:C:C2'	2:AA:1692:U:H5'	1.92	0.99
3:AC:200:LYS:HB2	3:AC:208:PHE:CZ	1.97	0.99
7:AG:56:ARG:HB3	7:AG:56:ARG:NH1	1.77	0.99
13:AN:43:VAL:CG1	13:AN:54:LYS:HA	1.91	0.99
13:AN:63:VAL:HG21	13:AN:85:VAL:HG23	1.44	0.99
15:AP:16:ARG:HB2	15:AP:19:TYR:HB2	1.44	0.99
21:AV:168:VAL:HG12	21:AV:169:VAL:N	1.73	0.99
34:BA:43:C:OP1	51:BS:12:LYS:HG2	1.63	0.99
34:BA:429:U:H4'	34:BA:430:A:O5'	1.61	0.99
34:BA:684:A:N3	46:BN:39:PRO:HG3	1.76	0.99
39:BG:18:LYS:HA	39:BG:33:MET:CE	1.93	0.99
42:BJ:69:VAL:HG11	42:BJ:104:LEU:HD21	1.02	0.99
52:BT:88:TYR:HA	52:BT:91:ARG:HH21	1.24	0.99
2:AA:137(A):G:N3	2:AA:137(A):G:C5'	2.25	0.99
2:AA:1118:C:H2'	2:AA:1119:C:O4'	1.62	0.99
2:AA:1487:G:H2'	2:AA:1488:G:H8	1.27	0.99
2:AA:2431:U:H2'	2:AA:2433:A:OP2	1.62	0.99
10:AK:77:VAL:HB	10:AK:143:VAL:HA	1.45	0.99
12:AM:58:GLU:HG3	12:AM:139:LEU:HB3	1.42	0.99
13:AN:11:ALA:O	13:AN:99:PHE:HB2	1.62	0.99
13:AN:31:ARG:HB2	13:AN:32:TYR:CE1	1.97	0.99
21:AV:107:GLU:H	21:AV:107:GLU:CD	1.67	0.99
29:A5:40:LYS:CE	29:A5:46:CYS:HB2	1.93	0.99
34:BA:986:A:H1'	54:BV:55:LYS:HA	1.44	0.99
46:BN:21:ILE:HD11	46:BN:82:VAL:HG11	1.42	0.99
50:BR:65:ARG:O	50:BR:68:ARG:HB3	1.63	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:74:ASP:OD1	50:BR:76:GLU:HB3	1.62	0.99
1:AB:28:C:OP1	16:AQ:42:HIS:NE2	1.96	0.99
2:AA:54:G:N2	2:AA:116:C:N3	2.11	0.99
2:AA:343:C:C2	2:AA:344:G:N3	2.31	0.99
2:AA:343:C:O2'	2:AA:344:G:H5'	1.62	0.99
2:AA:729:G:N3	2:AA:729:G:C3'	2.26	0.99
2:AA:1025:G:H1'	2:AA:1134:G:H4'	1.41	0.99
2:AA:1026:U:H5'	2:AA:1026:U:H6	1.28	0.99
2:AA:1083:U:C3'	9:AI:37:VAL:HA	1.92	0.99
2:AA:1527:G:H2'	2:AA:1528:A:C5'	1.92	0.99
2:AA:1795:C:N4	2:AA:1824:G:H1	1.59	0.99
2:AA:2505:G:H2'	2:AA:2576:G:N2	1.78	0.99
4:AD:117:SER:HB3	4:AD:128:ALA:O	1.61	0.99
6:AF:55:ARG:HG3	6:AF:56:THR:H	0.87	0.99
9:AI:78:ARG:HH21	9:AI:89:LYS:HG3	1.28	0.99
14:AO:64:ILE:O	14:AO:108:VAL:HA	1.61	0.99
15:AP:94:ARG:HG2	15:AP:107:LYS:O	1.60	0.99
17:AR:10:GLY:HA3	17:AR:52:THR:HB	1.44	0.99
25:A1:13:ARG:HH11	25:A1:13:ARG:HB2	1.26	0.99
34:BA:386:C:H2'	34:BA:387:U:C5'	1.92	0.99
34:BA:626:U:H2'	34:BA:627:G:H8	1.24	0.99
35:BC:70:C:H2'	35:BC:71:G:H8	1.24	0.99
37:BE:69:LEU:HB3	37:BE:162:ILE:HG22	1.43	0.99
42:BJ:72:ARG:HH12	42:BJ:138:LYS:NZ	1.60	0.99
44:BL:9:ARG:O	44:BL:104:ARG:HG3	1.63	0.99
47:BO:53:ARG:HH12	47:BO:93:LEU:HD22	0.84	0.99
1:AB:28:C:OP2	16:AQ:41:LYS:HG3	1.61	0.99
2:AA:343:C:C4	2:AA:344:G:C6	2.51	0.99
2:AA:2530:A:C2'	2:AA:2531:A:H5''	1.93	0.99
6:AF:81:PRO:C	6:AF:87:ARG:NH1	2.21	0.99
18:AS:73:ALA:HB3	18:AS:106:ILE:HD12	1.41	0.99
25:A1:57:PHE:CA	25:A1:60:LEU:HD12	1.90	0.99
34:BA:408:A:H2'	34:BA:409:G:H8	1.20	0.99
38:BF:116:VAL:O	38:BF:119:ARG:HB3	1.61	0.99
43:BK:27:PRO:HB2	43:BK:32:LYS:HE2	1.40	0.99
43:BK:91:ARG:HG2	52:BT:34:LYS:H	1.26	0.99
52:BT:62:SER:CB	52:BT:72:ARG:HE	1.76	0.99
55:BW:23:ARG:O	55:BW:26:ASN:ND2	1.96	0.99
2:AA:125:G:C5'	31:A7:19:ARG:HH11	1.76	0.99
2:AA:293:U:H2'	2:AA:294:A:C8	1.97	0.99
2:AA:326:G:H22	2:AA:337:C:C1'	1.74	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:530:G:H22	2:AA:2021:C:H5''	1.25	0.99
2:AA:783:A:H2'	2:AA:784:A:C4'	1.92	0.99
2:AA:1309:G:P	31:A7:9:ASN:HD22	1.85	0.99
2:AA:1695:G:H2'	2:AA:1696:G:H5'	1.01	0.99
2:AA:1809:A:H62	28:A4:3:LYS:HG2	1.05	0.99
2:AA:1993:U:C4'	5:AE:228:ARG:HH21	1.75	0.99
2:AA:2207:C:H2'	2:AA:2208:U:C5'	1.92	0.99
2:AA:2334:G:N1	16:AQ:10:MET:HE2	1.76	0.99
2:AA:2602:A:OP1	35:BC:75:C:P	2.21	0.99
6:AF:109:LEU:HA	6:AF:112:ARG:HD2	1.41	0.99
9:AI:25:LEU:HD23	9:AI:28:LYS:HD2	1.44	0.99
9:AI:76:VAL:HG21	9:AI:121:ALA:HB2	1.43	0.99
10:AK:6:LEU:HD13	10:AK:6:LEU:O	1.60	0.99
18:AS:29:LEU:O	18:AS:33:ARG:HG3	1.61	0.99
19:AT:18:MET:SD	19:AT:25:GLN:HG2	2.02	0.99
25:A1:61:TRP:HZ3	25:A1:94:VAL:N	1.61	0.99
25:A1:79:PHE:O	25:A1:83:LEU:HB2	1.60	0.99
27:A3:19:LYS:HB3	27:A3:21:LEU:HG	1.44	0.99
34:BA:101:A:O2'	34:BA:102:G:H5'	1.61	0.99
34:BA:1250:A:H2'	34:BA:1251:A:C8	1.97	0.99
34:BA:1263:C:H42	34:BA:1272:G:H1	1.08	0.99
45:BM:3:LYS:HD2	45:BM:3:LYS:N	1.74	0.99
2:AA:51:G:H5'	2:AA:52:A:OP1	1.62	0.99
2:AA:752:A:N7	2:AA:1781:C:O2	1.96	0.99
2:AA:1695:G:C2'	2:AA:1696:G:H5'	1.91	0.99
2:AA:2507:C:N3	2:AA:2582:G:N2	2.11	0.99
5:AE:176:HIS:O	5:AE:179:ASP:HB2	1.62	0.99
12:AM:73:LYS:CB	12:AM:140:GLY:HA3	1.92	0.99
13:AN:83:ALA:C	13:AN:84:CYS:SG	2.46	0.99
16:AQ:102:LEU:HD12	16:AQ:102:LEU:H	1.27	0.99
34:BA:668:G:H1'	50:BR:46:HIS:NE2	1.78	0.99
34:BA:713:G:H2'	34:BA:714:G:C8	1.97	0.99
2:AA:259:G:H2'	2:AA:260:G:H8	1.25	0.98
2:AA:605:C:H3'	6:AF:105:LYS:NZ	1.77	0.98
2:AA:937:U:H2'	2:AA:938:G:H8	1.24	0.98
2:AA:1475:G:H2'	2:AA:1476:C:H5'	1.45	0.98
2:AA:1544:C:O2'	2:AA:1545:A:H4'	1.63	0.98
2:AA:2296:U:H3'	2:AA:2296:U:H6	1.22	0.98
4:AD:131:LEU:HA	4:AD:134:ILE:CD1	1.92	0.98
4:AD:166:LYS:HD2	4:AD:171:VAL:CG1	1.93	0.98
8:AH:43:THR:HG22	8:AH:52:THR:HG22	1.45	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:77:VAL:CG1	10:AK:79:ILE:HD11	1.92	0.98
15:AP:49:VAL:HG22	15:AP:119:ASN:O	1.62	0.98
17:AR:49:LEU:HD23	17:AR:50:GLU:N	1.77	0.98
34:BA:189:G:N2	34:BA:190(J):U:O2	1.96	0.98
34:BA:1159:U:H5'	34:BA:1160:G:OP1	1.63	0.98
35:BC:3:G:O6	35:BC:70:C:N3	1.96	0.98
35:BC:52:U:H3	35:BC:62:A:H61	1.01	0.98
38:BF:16:ARG:NH2	38:BF:184:TYR:H	1.59	0.98
38:BF:88:ARG:O	38:BF:91:LEU:HB3	1.62	0.98
46:BN:15:ALA:HA	46:BN:78:GLN:HE21	1.26	0.98
2:AA:179:G:H3'	2:AA:180:G:H8	1.24	0.98
2:AA:270(E):G:N1	2:AA:270(U):C:N4	2.10	0.98
2:AA:1364:G:C5'	2:AA:1809:A:N7	2.26	0.98
2:AA:1612:C:H2'	31:A7:3:ARG:NE	1.78	0.98
2:AA:1685:C:O2'	2:AA:1686:C:H5'	1.61	0.98
2:AA:2120:G:H1	2:AA:2178:C:H42	1.11	0.98
2:AA:2553:G:H21	2:AA:2583:G:H1'	0.84	0.98
5:AE:307:LEU:O	5:AE:309:PRO:HD3	1.63	0.98
10:AK:94:THR:HG23	10:AK:96:LYS:HB3	1.46	0.98
12:AM:137:GLU:CA	12:AM:141:ALA:HB2	1.92	0.98
15:AP:20:ILE:HG13	15:AP:21:SER:H	1.27	0.98
15:AP:64:ALA:O	15:AP:67:ALA:HB3	1.63	0.98
21:AV:96:VAL:HG21	21:AV:130:ILE:HD13	1.43	0.98
32:A8:5:LYS:O	32:A8:7:HIS:N	1.96	0.98
34:BA:60:A:H62	34:BA:110:C:N4	1.61	0.98
34:BA:297:G:H21	34:BA:299:G:H3'	1.26	0.98
34:BA:375:U:H4'	51:BS:17:TYR:HE2	1.27	0.98
37:BE:113:HIS:HA	37:BE:116:GLU:OE1	1.61	0.98
43:BK:10:LEU:CA	43:BK:13:ILE:HD12	1.93	0.98
2:AA:270(C):C:H2'	2:AA:270(D):C:H6	1.27	0.98
2:AA:270(X):G:H2'	2:AA:270(Y):G:H5'	1.01	0.98
2:AA:302:C:N3	2:AA:315:G:N2	2.10	0.98
2:AA:863:A:H2'	2:AA:864:G:C8	1.97	0.98
2:AA:1612:C:H3'	31:A7:3:ARG:HH21	1.24	0.98
2:AA:1700:A:H2'	2:AA:1701:A:H5'	1.45	0.98
2:AA:2320:A:H1'	2:AA:2333:A:N6	1.78	0.98
4:AD:196:ASN:CA	4:AD:199:ARG:HD2	1.91	0.98
11:AL:46:THR:HG22	11:AL:54:LEU:HD12	1.40	0.98
21:AV:52:PHE:H	21:AV:65:LEU:CD1	1.76	0.98
34:BA:781:A:C2'	34:BA:782:A:H5'	1.93	0.98
34:BA:817:C:N4	34:BA:819:A:N3	2.12	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1490:C:H6	34:BA:1490:C:C5'	1.75	0.98
35:BB:37:G:N2	36:B1:63:C:N4	2.11	0.98
38:BF:111:LEU:O	38:BF:202:ILE:HD12	1.60	0.98
42:BJ:118:VAL:HG12	42:BJ:122:HIS:NE2	1.78	0.98
2:AA:342:G:H2'	2:AA:343:C:C6	1.96	0.98
2:AA:373:U:H4'	2:AA:374:A:C8	1.98	0.98
2:AA:920:G:O2'	2:AA:921:G:H5'	1.63	0.98
3:AC:144:THR:HA	3:AC:152:ILE:HG21	1.45	0.98
4:AD:169:LYS:H	4:AD:169:LYS:NZ	1.61	0.98
6:AF:55:ARG:CG	6:AF:56:THR:H	1.76	0.98
7:AG:21:VAL:HG13	7:AG:132:VAL:HG23	1.46	0.98
9:AJ:71:ILE:HG12	11:AL:61:TYR:HB2	0.99	0.98
12:AM:39:VAL:HG11	12:AM:108:PRO:HD3	1.41	0.98
44:BL:48:GLU:HA	44:BL:51:ARG:NE	1.79	0.98
2:AA:154:G:C2	2:AA:155:C:H1'	1.99	0.98
2:AA:221:A:N7	2:AA:266:G:N7	2.12	0.98
2:AA:251:A:H2'	2:AA:252:G:O4'	1.62	0.98
2:AA:343:C:N4	2:AA:344:G:O6	1.95	0.98
2:AA:528:A:C2	2:AA:2043:C:H4'	1.98	0.98
2:AA:791:C:N4	2:AA:794:G:H8	1.61	0.98
2:AA:1405:U:H3	2:AA:1597:A:N6	1.61	0.98
2:AA:1917:U:H6	2:AA:1917:U:H3'	1.25	0.98
2:AA:1993:U:O2'	2:AA:1994:C:H5'	1.63	0.98
2:AA:2353:G:H1	2:AA:2364:C:N4	1.60	0.98
2:AA:2519:U:H5''	2:AA:2520:C:OP1	1.62	0.98
2:AA:2560:C:O2	2:AA:2560:C:H2'	1.58	0.98
2:AA:2699:C:N3	2:AA:2708:G:N2	2.11	0.98
7:AG:79:MET:HA	7:AG:82:GLU:OE1	1.63	0.98
8:AH:116:PRO:HB2	8:AH:120:LEU:HB2	1.42	0.98
9:AI:69:ASN:O	9:AI:73:VAL:HG23	1.62	0.98
21:AV:67:LYS:HD3	21:AV:93:GLU:CD	1.88	0.98
34:BA:590:C:H5''	43:BK:30:ARG:CD	1.93	0.98
34:BA:913:A:O2'	34:BA:914:A:O4'	1.79	0.98
34:BA:948:C:OP1	48:BP:109:THR:HB	1.62	0.98
40:BH:78:HIS:NE2	40:BH:142:LEU:HD23	1.78	0.98
50:BR:36:ILE:HD12	50:BR:63:ARG:CD	1.93	0.98
53:BU:36:ASN:HB3	53:BU:40:LEU:HD21	1.46	0.98
2:AA:29:U:H4'	25:A1:11:ARG:NH1	1.79	0.98
2:AA:2067:G:N2	2:AA:2443:C:N3	2.11	0.98
2:AA:2131:G:H3'	3:AC:6:ARG:HB2	1.43	0.98
2:AA:2386:C:H4'	27:A3:39:ARG:HE	0.83	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2785:C:C5'	5:AE:99:VAL:HG22	1.93	0.98
6:AF:32:GLY:C	6:AF:36:ARG:HE	1.70	0.98
10:AK:95:SER:HA	10:AK:98:ILE:HG13	1.41	0.98
12:AM:87:LEU:HD22	12:AM:98:PHE:CE1	1.98	0.98
19:AT:23:LYS:O	19:AT:24:LEU:HG	1.62	0.98
21:AV:18:MET:HA	21:AV:35:ASP:HA	1.46	0.98
31:A7:30:ILE:HG23	31:A7:33:ARG:HD2	1.45	0.98
34:BA:679:C:H2'	34:BA:680:C:H6	1.22	0.98
35:BB:19:G:O2'	35:BB:20:G:OP1	1.81	0.98
37:BE:61:LEU:CA	37:BE:64:ARG:HD2	1.94	0.98
41:BI:91:VAL:CG2	53:BU:72:ARG:HH12	1.76	0.98
42:BJ:86:GLN:HG3	42:BJ:148:ASN:HD22	1.28	0.98
42:BJ:146:GLU:CG	42:BJ:149:ARG:HH21	1.75	0.98
50:BR:3:ILE:HG23	50:BR:38:ARG:NH2	1.78	0.98
50:BR:62:GLN:HA	50:BR:65:ARG:NH2	1.77	0.98
2:AA:487:C:H42	2:AA:493:G:H1	1.11	0.98
2:AA:913:U:HO2'	2:AA:914:C:H5	1.11	0.98
2:AA:1184:G:O2'	2:AA:1185:C:H5'	1.61	0.98
2:AA:1669:A:H2'	2:AA:1670:C:C5'	1.94	0.98
2:AA:2182:G:H2'	2:AA:2183:C:C6	1.97	0.98
2:AA:2745:C:H1'	8:AH:142:GLU:HG3	1.44	0.98
2:AA:2776:A:H1'	2:AA:2778:A:C8	1.98	0.98
4:AD:154:VAL:HG21	4:AD:160:SER:HA	1.43	0.98
5:AE:211:GLN:H	5:AE:216:ARG:CZ	1.75	0.98
34:BA:392:G:H5'	51:BS:12:LYS:HE2	1.43	0.98
34:BA:520:A:N6	34:BA:529:G:N3	2.11	0.98
34:BA:579:G:C2'	34:BA:580:U:H5'	1.94	0.98
34:BA:1004:A:H8	34:BA:1036:G:O6	1.46	0.98
35:BC:51:G:H1	35:BC:63:C:N4	1.60	0.98
47:BO:53:ARG:HH12	47:BO:93:LEU:CD2	1.77	0.98
48:BP:60:VAL:HA	48:BP:63:THR:HG22	1.46	0.98
48:BP:108:ARG:HH11	48:BP:108:ARG:HA	1.25	0.98
2:AA:616:A:H4'	2:AA:617:G:OP1	1.61	0.98
2:AA:1084:A:OP1	9:AI:39:VAL:HB	1.63	0.98
2:AA:1796:U:H2'	2:AA:1797:C:C5	1.98	0.98
2:AA:1809:A:H3'	2:AA:1810:A:N3	1.79	0.98
2:AA:1932:A:H2'	2:AA:1932:A:N3	1.77	0.98
2:AA:2376:A:C2	16:AQ:102:LEU:HD22	1.99	0.98
2:AA:2476:A:N7	2:AA:2477:C:C5	2.31	0.98
4:AD:162:GLN:HB2	4:AD:164:LEU:HD12	1.46	0.98
24:A0:97:VAL:HG13	24:A0:114:VAL:CG2	1.92	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:111:ASP:HA	25:A1:114:ARG:HD2	1.44	0.98
32:A8:31:HIS:O	32:A8:32:GLN:HG3	1.64	0.98
34:BA:922:G:H1	34:BA:1395:C:H42	1.03	0.98
34:BA:1315:U:O2'	34:BA:1360:A:N3	1.96	0.98
43:BK:103:VAL:HB	43:BK:108:GLY:HA3	1.46	0.98
45:BM:34:VAL:HG12	45:BM:36:GLY:H	1.23	0.98
2:AA:108:U:H2'	2:AA:109:G:C8	1.99	0.98
2:AA:628:G:N2	2:AA:635:C:N3	2.11	0.98
2:AA:1252:G:H3'	2:AA:1253:A:O4'	1.64	0.98
2:AA:2312:U:H5''	7:AG:52:THR:O	1.63	0.98
2:AA:2754:U:H2'	2:AA:2756:U:OP1	1.64	0.98
4:AD:173:VAL:HG23	4:AD:181:ARG:O	1.63	0.98
12:AM:52:GLN:O	12:AM:55:GLU:HB2	1.63	0.98
13:AN:112:MET:HA	13:AN:115:ILE:HD12	1.45	0.98
15:AP:127:ASN:CB	15:AP:128:PRO:HD3	1.93	0.98
22:AW:13:PRO:HA	22:AW:16:ARG:HD2	1.43	0.98
24:A0:72:ASP:OD1	24:A0:74:LYS:HD3	1.64	0.98
25:A1:66:ASN:HA	25:A1:76:TYR:OH	1.63	0.98
34:BA:479:C:O5'	34:BA:479:C:H6	1.47	0.98
34:BA:628:G:H2'	34:BA:629:G:C8	1.99	0.98
34:BA:1069:C:H42	34:BA:1106:G:H1	1.07	0.98
36:B1:11:U:H3	36:B1:45:A:H61	1.09	0.98
37:BE:69:LEU:HD12	37:BE:162:ILE:HB	1.46	0.98
37:BE:102:LEU:HB2	37:BE:176:GLU:HB3	1.44	0.98
2:AA:304:G:H1	2:AA:313:C:H42	1.04	0.98
2:AA:2331:G:O2'	27:A3:70:ILE:HG21	1.63	0.98
4:AD:216:ALA:C	4:AD:223:ASN:H	1.63	0.98
5:AE:222:ARG:HH21	5:AE:234:ARG:N	1.59	0.98
9:AI:1:MET:HE2	9:AJ:86:LYS:HD2	1.44	0.98
10:AK:69:LYS:HG2	10:AK:70:GLU:N	1.78	0.98
10:AK:75:LEU:CD1	10:AK:76:THR:H	1.76	0.98
12:AM:12:VAL:O	12:AM:38:VAL:HA	1.63	0.98
15:AP:67:ALA:HA	15:AP:70:ARG:HD2	0.98	0.98
15:AP:71:PHE:HB3	15:AP:138:ARG:NH1	1.78	0.98
27:A3:44:LYS:HD3	27:A3:78:PHE:CE2	1.98	0.98
34:BA:68:G:H5'	34:BA:171:A:H1'	1.43	0.98
34:BA:520:A:H62	34:BA:529:G:H21	1.05	0.98
35:BB:59:U:OP1	35:BB:59:U:C5	2.17	0.98
37:BE:53:ARG:HE	37:BE:199:TYR:HE2	0.98	0.98
37:BE:91:PRO:HG3	37:BE:155:LEU:H	1.28	0.98
41:BI:91:VAL:HG21	53:BU:72:ARG:HH12	1.28	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:32:ILE:HG22	46:BN:40:ILE:HD12	1.01	0.98
47:BO:36:VAL:O	47:BO:58:VAL:HG13	1.64	0.98
2:AA:791:C:N4	2:AA:794:G:C8	2.32	0.97
2:AA:904:C:C1'	21:AV:166:LEU:HD11	1.94	0.97
2:AA:977:G:C8	2:AA:987:G:N2	2.31	0.97
2:AA:1252:G:N2	25:A1:37:GLN:HE21	1.61	0.97
2:AA:2656:U:C4	2:AA:2665:A:N6	2.31	0.97
5:AE:45:LYS:HZ3	5:AE:301:PRO:HG2	0.83	0.97
10:AK:125:GLY:HA2	10:AK:145:VAL:N	1.77	0.97
12:AM:14:ALA:C	12:AM:40:ASN:HD22	1.71	0.97
15:AP:139:ALA:O	15:AP:142:LYS:HB3	1.62	0.97
17:AR:45:GLU:HG3	17:AR:48:ASN:OD1	1.64	0.97
21:AV:15:ASP:C	21:AV:36:ARG:HH22	1.72	0.97
25:A1:47:TYR:HE1	26:A2:76:SER:HA	1.27	0.97
34:BA:8:A:H1'	40:BH:102:ALA:O	1.64	0.97
34:BA:95:U:H2'	34:BA:96:G:H8	1.26	0.97
34:BA:1448:C:N4	34:BA:1455:G:H1	1.62	0.97
53:BU:21:LYS:HZ1	53:BU:23:LYS:HB2	1.29	0.97
53:BU:75:ILE:CG2	53:BU:76:LEU:HD22	1.94	0.97
2:AA:225:A:N6	2:AA:419:C:H4'	1.80	0.97
2:AA:282:A:C2	2:AA:283:A:H5'	1.99	0.97
2:AA:1166:C:N4	2:AA:1183:G:N1	2.12	0.97
2:AA:1568:G:H5''	4:AD:60:GLN:HE21	0.81	0.97
2:AA:1701:A:O2'	2:AA:1702:G:H5'	1.64	0.97
2:AA:1933:G:O6	2:AA:1968:G:N2	1.95	0.97
6:AF:5:ILE:HD11	6:AF:16:VAL:CG2	1.94	0.97
37:BE:163:PHE:CZ	37:BE:186:ALA:HA	1.99	0.97
43:BK:97:VAL:HG22	43:BK:98:LYS:HD3	1.46	0.97
43:BK:112:LEU:HD23	43:BK:113:SER:H	1.29	0.97
45:BM:94:VAL:HG12	45:BM:95:GLU:H	1.28	0.97
55:BW:8:ARG:HB2	55:BW:8:ARG:HH11	1.23	0.97
2:AA:246:C:H42	2:AA:252:G:H1	1.09	0.97
2:AA:1281:G:H2'	2:AA:1282:U:H6	1.28	0.97
2:AA:1857:G:N1	2:AA:1884:A:N6	2.13	0.97
2:AA:1917:U:H3'	2:AA:1918:A:C8	1.99	0.97
12:AM:84:ARG:HD3	12:AM:98:PHE:HD2	1.29	0.97
15:AP:64:ALA:HB2	15:AP:142:LYS:HE2	1.43	0.97
25:A1:13:ARG:HH11	25:A1:13:ARG:N	1.61	0.97
35:BB:53:G:H2'	35:BB:54:U:C6	1.99	0.97
52:BT:45:HIS:O	52:BT:73:VAL:HG23	1.62	0.97
2:AA:29:U:H4'	25:A1:11:ARG:HH12	1.28	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:299:A:H2'	2:AA:300:A:C8	1.98	0.97
2:AA:857:C:N4	2:AA:920:G:H1	1.61	0.97
2:AA:1065:U:C3'	2:AA:1066:U:H5''	1.93	0.97
2:AA:1255:U:OP1	2:AA:1256:G:H5''	1.63	0.97
2:AA:2041:U:O2'	2:AA:2042:A:H5'	1.63	0.97
2:AA:2095:C:N3	2:AA:2194:G:O6	1.96	0.97
2:AA:2132:U:H2'	2:AA:2133:G:H5''	1.46	0.97
2:AA:2341:G:H2'	2:AA:2342:C:C6	1.99	0.97
2:AA:2355:C:O3'	27:A3:21:LEU:HD13	1.63	0.97
2:AA:2702:U:OP1	2:AA:2702:U:C6	2.16	0.97
9:AJ:86:LYS:HE3	11:AL:10:LYS:HG3	1.45	0.97
10:AK:79:ILE:HB	10:AK:145:VAL:HG22	1.44	0.97
15:AP:142:LYS:O	15:AP:143:VAL:O	1.82	0.97
52:BT:28:PRO:HB2	52:BT:33:GLY:O	1.64	0.97
2:AA:937:U:H2'	2:AA:938:G:C8	1.98	0.97
2:AA:1559:G:H2'	2:AA:1559:G:N3	1.75	0.97
2:AA:2882:A:OP1	24:A0:96:ARG:HD3	1.65	0.97
7:AG:22:VAL:HB	7:AG:24:HIS:NE2	1.79	0.97
10:AK:95:SER:OG	10:AK:98:ILE:HD12	1.64	0.97
14:AO:124:ASP:HB3	14:AO:130:ARG:HH21	1.26	0.97
29:A5:11:THR:HB	29:A5:16:ARG:HE	0.81	0.97
34:BA:371:G:O2'	34:BA:372:C:H5'	1.64	0.97
34:BA:763:G:H2'	34:BA:764:C:H6	1.29	0.97
2:AA:429:A:H2'	2:AA:430:G:C8	1.99	0.97
2:AA:1163:G:H5'	26:A2:23:GLU:CD	1.89	0.97
2:AA:1403:C:H4'	2:AA:1471:A:H5'	1.45	0.97
2:AA:2276:G:OP2	15:AP:104:PRO:HD2	1.64	0.97
2:AA:2418:A:H2'	2:AA:2419:U:O4'	1.65	0.97
2:AA:2754:U:H2'	2:AA:2756:U:P	2.04	0.97
4:AD:197:GLY:C	4:AD:199:ARG:H	1.72	0.97
6:AF:103:ASN:HB2	6:AF:106:GLU:OE2	1.65	0.97
12:AM:12:VAL:HB	12:AM:38:VAL:HG22	1.02	0.97
13:AN:98:ILE:HD11	13:AN:114:ILE:HG23	1.43	0.97
13:AN:98:ILE:HG23	13:AN:99:PHE:H	1.30	0.97
15:AP:20:ILE:HD12	15:AP:21:SER:OG	1.64	0.97
16:AQ:83:LEU:O	16:AQ:87:LEU:HD23	1.64	0.97
19:AT:50:GLU:OE2	19:AT:69:SER:HB2	1.63	0.97
25:A1:62:ILE:O	25:A1:65:ILE:HB	1.62	0.97
34:BA:76:C:H42	34:BA:93:G:H1	1.05	0.97
34:BA:192:U:C1'	55:BW:103:GLY:HA2	1.94	0.97
34:BA:1087:G:H2'	34:BA:1088:G:H8	1.27	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:77:MET:HE1	46:BN:79:SER:O	1.65	0.97
2:AA:792:G:H21	2:AA:2072:G:C1'	1.78	0.97
2:AA:1417:C:H42	2:AA:1581:G:N2	1.61	0.97
2:AA:2103:C:N3	2:AA:2186:G:N2	2.11	0.97
2:AA:2316:C:C5'	7:AG:142:ALA:HB1	1.94	0.97
2:AA:2541:A:H2	2:AA:2765:A:H61	1.03	0.97
2:AA:2688:U:O4	2:AA:2719:G:H3'	1.64	0.97
6:AF:45:ASP:OD1	6:AF:98:ARG:HG3	1.62	0.97
8:AH:10:ILE:HG12	8:AH:14:VAL:HG11	1.43	0.97
10:AK:5:PHE:HB3	10:AK:17:GLU:O	1.65	0.97
12:AM:59:LYS:O	12:AM:63:ILE:HG13	1.63	0.97
15:AP:16:ARG:HB3	15:AP:16:ARG:HH11	0.82	0.97
24:A0:100:LEU:HB2	24:A0:111:LEU:O	1.64	0.97
32:A8:21:LYS:HB3	32:A8:48:PHE:CZ	1.98	0.97
34:BA:130:A:C8	52:BT:63:ARG:HG3	2.00	0.97
34:BA:453:A:N6	34:BA:480:U:H3	1.62	0.97
35:BC:30:G:N2	35:BC:40:C:N3	2.13	0.97
45:BM:45:ARG:HB3	45:BM:45:ARG:HH11	1.28	0.97
52:BT:74:LEU:HD13	52:BT:75:ARG:HB3	1.47	0.97
2:AA:28:A:H2'	2:AA:29:U:H5'	1.45	0.97
2:AA:404:C:C4'	2:AA:405:U:H5'	1.94	0.97
2:AA:802:A:H2'	2:AA:803:U:C6	2.00	0.97
2:AA:1085:A:O2'	2:AA:1086:A:O4'	1.82	0.97
2:AA:1105:U:H4'	9:AI:30:GLY:N	1.80	0.97
2:AA:1113:U:H2'	2:AA:1114:G:C8	2.00	0.97
2:AA:1342:A:H4'	2:AA:1343:G:OP1	1.63	0.97
2:AA:1613:G:C3'	2:AA:1614:A:H5'	1.94	0.97
2:AA:2304:G:H1	2:AA:2312:U:H3	1.10	0.97
3:AC:75:LEU:HD11	3:AC:99:ILE:HD13	1.47	0.97
5:AE:222:ARG:HG3	5:AE:222:ARG:NH1	1.73	0.97
5:AE:263:GLU:H	5:AE:266:LYS:HZ1	1.04	0.97
7:AG:28:GLY:HA2	7:AG:69:ILE:HG21	1.42	0.97
8:AH:37:HIS:HE2	8:AH:67:THR:HG1	1.11	0.97
19:AT:24:LEU:HB2	19:AT:26:PHE:CZ	1.99	0.97
21:AV:10:PRO:HG2	21:AV:11:LYS:H	1.30	0.97
32:A8:26:LYS:HD2	32:A8:43:GLY:C	1.89	0.97
34:BA:609:A:C2	34:BA:610:G:H1'	2.00	0.97
34:BA:1314:C:H41	54:BV:4:SER:HB2	1.27	0.97
37:BE:69:LEU:HB2	37:BE:159:PRO:HB2	1.47	0.97
37:BE:93:VAL:HG21	37:BE:101:MET:HE1	1.46	0.97
38:BF:83:ARG:NE	38:BF:87:LEU:HD21	1.80	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:107:ARG:HA	39:BG:107:ARG:NH1	1.78	0.97
55:BW:84:LEU:O	55:BW:88:VAL:HG23	1.62	0.97
2:AA:475:U:H4'	2:AA:510:C:H5'	1.46	0.97
2:AA:1041:C:H42	2:AA:1114:G:H1	1.06	0.97
2:AA:1304:C:H42	2:AA:1624:G:H1	1.05	0.97
2:AA:1666:G:H2'	2:AA:1667:G:H5'	1.45	0.97
2:AA:1668:A:N6	2:AA:1676:A:H61	1.61	0.97
2:AA:1754:C:H2'	2:AA:1755:A:C1'	1.94	0.97
2:AA:1923:U:O2'	35:BC:12:U:H1'	1.65	0.97
2:AA:2022:U:N3	29:A5:9:LYS:NZ	2.07	0.97
2:AA:2712:U:C2'	2:AA:712(A):A:H5''	1.93	0.97
2:AA:2747:G:H2'	2:AA:2748:A:H5''	1.44	0.97
6:AF:4:THR:O	6:AF:139:VAL:HB	1.62	0.97
13:AN:107:ARG:HA	13:AN:115:ILE:HD11	1.43	0.97
13:AN:111:PHE:O	13:AN:115:ILE:HG13	1.63	0.97
20:AU:31:LEU:O	20:AU:34:GLU:HB2	1.62	0.97
21:AV:94:VAL:HG11	21:AV:130:ILE:HG21	1.47	0.97
25:A1:13:ARG:HH11	25:A1:13:ARG:CB	1.77	0.97
25:A1:31:GLN:O	25:A1:33:ARG:N	1.97	0.97
33:A9:10:MET:HB2	33:A9:32:HIS:HD2	1.28	0.97
34:BA:559:A:H4'	34:BA:560:U:C5'	1.94	0.97
34:BA:571:U:C3'	34:BA:572:A:H5''	1.94	0.97
34:BA:1308:U:O5'	48:BP:99:ARG:NH1	1.98	0.97
35:BB:12:U:O2	35:BB:24:G:N2	1.96	0.97
37:BE:82:ARG:HA	37:BE:92:TYR:CE1	1.99	0.97
39:BG:60:GLU:O	39:BG:63:LYS:HG2	1.65	0.97
46:BN:84:VAL:HG21	53:BU:88:LYS:NZ	1.80	0.97
2:AA:602:G:H21	2:AA:655:A:H2'	1.30	0.97
2:AA:768:G:H2'	2:AA:769:G:H8	1.26	0.97
2:AA:1024:G:H3'	2:AA:1025:G:H5''	1.42	0.97
2:AA:2056:G:N2	2:AA:2057:A:C1'	2.27	0.97
2:AA:2521:C:N3	2:AA:2544:G:N2	2.12	0.97
4:AD:142:ASN:N	4:AD:143:ILE:HD12	1.80	0.97
4:AD:172:ILE:HA	4:AD:182:MET:HG2	1.43	0.97
9:AI:74:ILE:HD13	9:AI:89:LYS:HG2	1.43	0.97
18:AS:77:ASP:O	18:AS:102:HIS:HB2	1.63	0.97
34:BA:692:U:H5	46:BN:26:ASN:HD21	1.05	0.97
34:BA:877:C:O2'	43:BK:3:THR:HB	1.64	0.97
34:BA:974:A:H1'	49:BQ:31:ARG:NH2	1.78	0.97
34:BA:1348:U:OP1	44:BL:109:VAL:HA	1.65	0.97
38:BF:139:GLN:HE21	38:BF:139:GLN:HA	1.29	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:81:GLU:HA	40:BH:89:ILE:O	1.65	0.97
47:BO:90:VAL:HG21	47:BO:96:VAL:HG11	1.42	0.97
2:AA:327:G:C2	2:AA:328:U:H6	1.82	0.96
2:AA:913:U:O2'	2:AA:914:C:H5	1.46	0.96
2:AA:1062:G:N2	11:AL:92:PRO:HG3	1.80	0.96
2:AA:1829:A:C2	2:AA:1830:C:H1'	2.00	0.96
2:AA:2286:A:OP2	30:A6:28:ARG:HD2	1.62	0.96
2:AA:2557:G:H2'	2:AA:2558:C:C6	1.99	0.96
5:AE:66:GLU:O	5:AE:67:THR:HG23	1.64	0.96
6:AF:80:VAL:HG13	6:AF:81:PRO:HD2	1.45	0.96
12:AM:73:LYS:HB3	12:AM:140:GLY:HA3	0.98	0.96
13:AN:102:VAL:HG11	13:AN:106:LEU:HD11	1.43	0.96
17:AR:5:GLU:O	17:AR:7:ASP:N	1.98	0.96
26:A2:57:GLN:HG2	26:A2:58:ALA:N	1.76	0.96
40:BH:94:ALA:HB1	40:BH:98:THR:HG21	1.47	0.96
2:AA:850:C:H4'	23:AX:18:ASP:CG	1.89	0.96
2:AA:1061:U:C4'	2:AA:1070:A:H1'	1.95	0.96
2:AA:1323:U:H2'	2:AA:1324:G:H5'	1.46	0.96
2:AA:1363:C:H2'	2:AA:1363:C:O2	1.64	0.96
12:AM:39:VAL:HG12	12:AM:104:TYR:O	1.64	0.96
12:AM:58:GLU:CA	12:AM:61:VAL:HB	1.94	0.96
13:AN:1:MET:N	13:AN:32:TYR:HB3	1.77	0.96
13:AN:103:ALA:O	13:AN:105:GLU:N	1.98	0.96
18:AS:5:ALA:HB3	18:AS:105:VAL:HG23	1.45	0.96
31:A7:35:ARG:HH11	31:A7:35:ARG:CB	1.77	0.96
34:BA:190:C:H2'	34:BA:190(A):C:H6	1.26	0.96
34:BA:1347:G:C8	44:BL:107:ARG:HB3	2.01	0.96
34:BA:1521:G:H2'	34:BA:1522:U:C6	2.00	0.96
35:BB:34:G:N2	36:B1:66:G:N7	2.13	0.96
37:BE:47:THR:HG23	37:BE:202:PRO:HG2	1.47	0.96
37:BE:97:TRP:HH2	37:BE:176:GLU:HG3	1.30	0.96
37:BE:118:LEU:HD13	37:BE:142:LEU:HA	1.47	0.96
38:BF:60:ALA:HB2	45:BM:92:THR:O	1.66	0.96
53:BU:36:ASN:O	53:BU:40:LEU:HG	1.63	0.96
2:AA:139:G:H2'	2:AA:141(A):C:C2'	1.95	0.96
2:AA:216:A:H2'	2:AA:217:G:C8	1.99	0.96
2:AA:1083:U:C4'	9:AI:40:ALA:HB3	1.95	0.96
2:AA:1393:A:N6	19:AT:13:LYS:HZ2	1.62	0.96
4:AD:209:ASN:HB3	4:AD:213:LYS:HZ2	1.24	0.96
10:AK:124:LEU:HD21	10:AK:146:THR:HA	1.47	0.96
34:BA:1028:C:H2'	34:BA:1029:C:C6	1.98	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1269:A:H5'	34:BA:1326:C:H4'	1.48	0.96
42:BJ:104:LEU:HA	42:BJ:134:ALA:HB2	1.46	0.96
2:AA:324:A:H62	2:AA:339:U:C1'	1.78	0.96
2:AA:1002:G:N1	2:AA:1153:C:N4	2.12	0.96
2:AA:1471:A:H2'	2:AA:1472:A:O4'	1.64	0.96
2:AA:1918:A:H2'	2:AA:1919:A:N7	1.81	0.96
2:AA:2253:G:H2'	2:AA:2254:C:C6	2.00	0.96
10:AK:83:ALA:HB2	10:AK:89:LEU:CA	1.95	0.96
12:AM:78:ILE:O	12:AM:82:THR:HG23	1.64	0.96
15:AP:130:PRO:HB2	15:AP:134:PHE:CZ	2.01	0.96
21:AV:64:ALA:HB3	21:AV:84:TYR:O	1.64	0.96
21:AV:100:THR:HA	21:AV:137:ASP:OD2	1.65	0.96
23:AX:11:SER:OG	23:AX:12:PRO:HD2	1.65	0.96
25:A1:13:ARG:NH1	25:A1:13:ARG:HB2	1.79	0.96
32:A8:29:LYS:CD	32:A8:36:LYS:HZ3	1.79	0.96
34:BA:942:G:H21	44:BL:124:GLN:HE22	1.00	0.96
43:BK:126:LYS:HZ3	43:BK:127:LEU:CD2	1.79	0.96
49:BQ:17:LYS:HG3	49:BQ:18:VAL:H	1.27	0.96
51:BS:74:LEU:CD2	51:BS:79:VAL:HG21	1.95	0.96
2:AA:1061:U:OP2	2:AA:1061:U:H3'	1.65	0.96
2:AA:1087:G:H21	2:AA:1103:A:H2'	1.31	0.96
2:AA:2491:U:H5'	2:AA:2570:G:H5'	1.44	0.96
22:AW:53:ILE:HG22	22:AW:57:LYS:CE	1.94	0.96
30:A6:26:LYS:HE2	32:A8:35:GLY:HA3	1.44	0.96
31:A7:6:GLN:H	31:A7:6:GLN:CD	1.70	0.96
34:BA:118:U:H3'	34:BA:288:A:H61	1.29	0.96
34:BA:889:A:H4'	34:BA:890:G:H4'	1.47	0.96
40:BH:105:VAL:HG11	40:BH:131:ILE:HG22	1.43	0.96
49:BQ:43:CYS:HA	49:BQ:46:GLU:OE1	1.63	0.96
2:AA:997:G:H5''	25:A1:92:ARG:CD	1.96	0.96
2:AA:1603:A:OP2	2:AA:1603:A:H3'	1.63	0.96
2:AA:1775:U:O2'	2:AA:1776:G:H5'	1.65	0.96
2:AA:2306:C:O2	7:AG:27:ILE:HG12	1.65	0.96
2:AA:2709:G:O2'	2:AA:2710:C:H5'	1.66	0.96
8:AH:73:ASN:HB3	8:AH:137:LYS:HZ2	1.19	0.96
11:AL:8:GLN:N	11:AL:59:THR:HA	1.78	0.96
13:AN:93:PRO:HD2	13:AN:113:LYS:HD2	1.47	0.96
14:AO:117:GLU:O	14:AO:118:LEU:HD23	1.64	0.96
16:AQ:102:LEU:HD21	16:AQ:129:ILE:HG23	1.45	0.96
34:BA:513:C:H2'	34:BA:514:C:C6	2.00	0.96
34:BA:761:G:H4'	52:BT:103:GLY:N	1.78	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:809:G:O2'	34:BA:810:C:H5'	1.65	0.96
34:BA:1538:C:N3	36:B1:51:G:N2	2.12	0.96
46:BN:110:ASP:HA	53:BU:88:LYS:HZ3	1.30	0.96
55:BW:64:ASP:O	55:BW:67:ALA:HB3	1.66	0.96
2:AA:138:G:O6	2:AA:142:G:O2'	1.82	0.96
2:AA:514:A:H2'	2:AA:515:A:C8	2.00	0.96
2:AA:654:A:H2'	2:AA:654:A:N3	1.78	0.96
2:AA:945:A:N6	2:AA:2448:A:C2	2.33	0.96
2:AA:1991:U:H3'	2:AA:1991:U:C6	2.00	0.96
2:AA:2021:C:O2	2:AA:2021:C:H2'	1.61	0.96
2:AA:2403:C:N3	2:AA:2414:G:N2	2.12	0.96
5:AE:199:ALA:HA	5:AE:312:ARG:O	1.62	0.96
7:AG:45:THR:HG22	7:AG:83:PHE:CE2	1.99	0.96
8:AH:98:GLN:HB2	8:AH:103:VAL:HG23	1.48	0.96
9:AJ:78:ARG:HH21	9:AJ:89:LYS:HG3	1.29	0.96
10:AK:39:ALA:HB1	10:AK:44:LEU:HD21	1.48	0.96
11:AL:55:PRO:HG3	11:AL:73:PRO:HA	1.44	0.96
14:AO:64:ILE:HD12	14:AO:106:VAL:HG12	1.47	0.96
18:AS:36:LEU:HD12	18:AS:51:LEU:HD22	1.45	0.96
28:A4:7:PRO:HD2	28:A4:56:VAL:CG2	1.96	0.96
34:BA:1250:A:H4'	44:BL:67:GLY:C	1.91	0.96
50:BR:34:LEU:HG	50:BR:38:ARG:HD3	1.47	0.96
2:AA:2058:A:C2	2:AA:2059:A:N7	2.34	0.96
2:AA:2284:C:P	30:A6:9:ILE:HG13	2.05	0.96
2:AA:2313:C:C5'	7:AG:72:LYS:HG3	1.96	0.96
2:AA:2360:A:N7	2:AA:2361:A:C8	2.32	0.96
4:AD:131:LEU:CA	4:AD:134:ILE:HD12	1.95	0.96
5:AE:214:VAL:HG13	5:AE:221:LYS:HD2	1.48	0.96
6:AF:32:GLY:HA3	6:AF:36:ARG:NH2	1.80	0.96
9:AI:1:MET:HE3	11:AL:10:LYS:HZ1	1.30	0.96
15:AP:15:THR:HB	15:AP:20:ILE:CB	1.95	0.96
15:AP:44:ALA:HB3	15:AP:126:VAL:O	1.66	0.96
34:BA:121:C:N4	34:BA:236:G:N7	2.11	0.96
34:BA:825:G:H1	34:BA:875:C:H42	1.09	0.96
35:BB:28:C:O2	35:BB:29:A:C8	2.16	0.96
40:BH:76:ILE:HD13	40:BH:142:LEU:CD1	1.95	0.96
52:BT:92:ARG:O	52:BT:95:TYR:HB2	1.64	0.96
55:BW:63:ILE:CD1	55:BW:80:ARG:HB3	1.94	0.96
1:AB:89(A):A:C2'	1:AB:90:C:H5'	1.95	0.96
2:AA:1520:U:C2'	2:AA:1521:G:H5''	1.95	0.96
2:AA:1862:G:H1	2:AA:1880:C:H42	0.96	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:44:TYR:CE1	5:AE:308:VAL:HG13	2.01	0.96
6:AF:220:THR:O	6:AF:225:PRO:HD2	1.65	0.96
9:AJ:86:LYS:HD2	11:AL:10:LYS:HE3	1.43	0.96
15:AP:50:VAL:HG12	15:AP:51:GLU:H	1.28	0.96
20:AU:48:VAL:HG11	20:AU:96:VAL:HG13	1.48	0.96
25:A1:91:ASN:ND2	26:A2:10:LYS:HE2	1.80	0.96
34:BA:77:G:N2	34:BA:92:C:N3	2.13	0.96
34:BA:1004:A:H3'	34:BA:1025:U:N3	1.81	0.96
34:BA:1080:A:N7	34:BA:1081:G:H1'	1.81	0.96
35:BB:32:C:N4	35:BB:33:U:N3	2.13	0.96
40:BH:51:VAL:HB	40:BH:52:PRO:HD3	1.47	0.96
40:BH:104:ALA:CA	40:BH:107:ARG:HH12	1.78	0.96
41:BI:67:MET:HE1	41:BI:69:GLU:O	1.64	0.96
41:BI:98:LEU:HD21	53:BU:28:GLU:HA	1.46	0.96
2:AA:2623:G:N2	29:A5:22:HIS:HE1	1.63	0.96
2:AA:2667:C:O2	8:AH:108:TYR:HB3	1.63	0.96
3:AC:99:ILE:HG23	3:AC:107:TRP:HZ3	1.25	0.96
8:AH:159:LYS:N	8:AH:162:ARG:HH12	1.63	0.96
15:AP:35:ASN:CG	21:AV:113:VAL:HB	1.91	0.96
18:AS:38:TYR:CD2	29:A5:41:LEU:HG	2.00	0.96
34:BA:957:U:C2'	34:BA:959:A:OP2	2.12	0.96
34:BA:1239:A:H4'	34:BA:1240:U:H5''	1.44	0.96
1:AB:56:G:H4'	1:AB:57:A:C5'	1.96	0.95
2:AA:13:A:N1	2:AA:525:U:H2'	1.81	0.95
2:AA:444:C:O2'	2:AA:445:C:H5'	1.65	0.95
2:AA:973:A:N6	26:A2:79:GLN:O	1.98	0.95
2:AA:1025:G:H8	2:AA:1134:G:HO2'	1.07	0.95
2:AA:1057:A:H61	2:AA:1081:U:H3	1.11	0.95
3:AC:32:LEU:HD13	3:AC:220:PRO:HB2	1.45	0.95
3:AC:38:ASP:OD1	3:AC:178:ALA:HB3	1.66	0.95
4:AD:107:LYS:HB2	4:AD:194:VAL:O	1.64	0.95
5:AE:46:ALA:CB	5:AE:72:VAL:HG23	1.96	0.95
5:AE:304:ASP:H	5:AE:307:LEU:CD1	1.79	0.95
6:AF:5:ILE:CD1	6:AF:16:VAL:HG23	1.96	0.95
6:AF:83:ALA:H	6:AF:87:ARG:CZ	1.78	0.95
7:AG:21:VAL:CG1	7:AG:132:VAL:HG23	1.95	0.95
9:AJ:63:LEU:HD11	9:AJ:102:ILE:HD12	1.48	0.95
12:AM:102:ARG:HB3	12:AM:104:TYR:OH	1.65	0.95
15:AP:86:ARG:HB2	15:AP:121:ASP:O	1.64	0.95
18:AS:82:LEU:HD23	18:AS:98:LYS:HB2	1.48	0.95
21:AV:156:GLU:HG2	21:AV:157:GLY:H	1.26	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:A9:11:CYS:SG	33:A9:14:CYS:N	2.38	0.95
34:BA:265:G:H2'	34:BA:267:C:C5	2.01	0.95
34:BA:482:A:N3	34:BA:482:A:H2'	1.81	0.95
43:BK:18:ARG:HH11	43:BK:18:ARG:HA	1.26	0.95
2:AA:1918:A:C8	2:AA:1918:A:OP2	2.19	0.95
2:AA:2265:U:C2	2:AA:2266:A:N7	2.33	0.95
2:AA:2441:C:O2'	2:AA:2442:C:H5'	1.66	0.95
3:AC:39:GLU:HG2	3:AC:216:THR:HB	1.47	0.95
12:AM:104:TYR:HB3	12:AM:105:LEU:HD23	1.45	0.95
15:AP:97:ASP:HB2	15:AP:107:LYS:HD2	1.46	0.95
16:AQ:31:LYS:HZ1	16:AQ:99:GLU:HB2	1.26	0.95
21:AV:3:LEU:HB2	21:AV:54:ILE:HG12	1.48	0.95
24:A0:86:ARG:HH22	24:A0:118:GLU:HG3	1.28	0.95
26:A2:69:ILE:H	26:A2:91:THR:HG22	0.80	0.95
34:BA:491:G:O2'	34:BA:492:G:H5'	1.64	0.95
35:BB:33:U:C4	35:BB:35:A:OP2	2.19	0.95
38:BF:8:ILE:HG12	38:BF:16:ARG:HG2	1.46	0.95
39:BG:56:VAL:HG12	39:BG:57:ARG:N	1.81	0.95
46:BN:99:GLN:HG2	46:BN:105:VAL:HG11	1.48	0.95
52:BT:62:SER:OG	52:BT:72:ARG:HG3	1.66	0.95
2:AA:25:U:H2'	2:AA:26:G:H8	1.29	0.95
2:AA:26:G:H1	2:AA:27:G:N2	1.63	0.95
2:AA:1019:U:H2'	2:AA:1020:A:H5'	1.46	0.95
2:AA:1031:G:N2	2:AA:1123:C:N3	2.14	0.95
2:AA:1083:U:O3'	9:AI:37:VAL:O	1.84	0.95
2:AA:1568:G:C5'	4:AD:60:GLN:HG2	1.96	0.95
2:AA:2449:U:O4'	2:AA:2449:U:OP1	1.84	0.95
3:AC:123:VAL:CG1	3:AC:138:PRO:HD2	1.96	0.95
4:AD:89:ASN:C	4:AD:90:ILE:HD12	1.90	0.95
8:AH:151:ARG:O	8:AH:161:ILE:HG12	1.66	0.95
15:AP:58:HIS:HB3	15:AP:111:THR:O	1.67	0.95
20:AU:48:VAL:HG22	20:AU:98:VAL:HA	1.45	0.95
27:A3:67:VAL:HG11	27:A3:74:LYS:HA	1.46	0.95
30:A6:37:LEU:CD2	30:A6:51:ARG:HG2	1.97	0.95
34:BA:1298:C:C3'	42:BJ:114:ARG:HH12	1.80	0.95
42:BJ:50:ILE:CD1	42:BJ:58:PRO:HB3	1.96	0.95
43:BK:18:ARG:HH11	43:BK:18:ARG:CA	1.78	0.95
47:BO:39:VAL:HB	47:BO:57:LYS:HD2	1.43	0.95
2:AA:997:G:H4'	25:A1:92:ARG:NH1	1.81	0.95
2:AA:1058:G:H1'	9:AI:3:ILE:CG1	1.96	0.95
2:AA:1422:G:H2'	2:AA:1423:G:C8	2.01	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2110:G:H2'	2:AA:2111:C:C5	2.02	0.95
2:AA:2459:A:N6	2:AA:2493:U:O4	1.98	0.95
4:AD:87:SER:HG	4:AD:156:ALA:HB2	1.17	0.95
4:AD:208:GLY:N	4:AD:211:HIS:HE2	1.63	0.95
6:AF:195:VAL:HG11	6:AF:235:PHE:CD2	2.01	0.95
8:AH:143:LEU:HD23	8:AH:144:ALA:H	1.30	0.95
9:AI:110:GLU:CD	9:AJ:57:THR:HG21	1.91	0.95
9:AJ:74:ILE:HD13	9:AJ:89:LYS:HG2	1.46	0.95
28:A4:68:ARG:HD3	28:A4:72:LYS:HE2	1.47	0.95
32:A8:13:ARG:O	32:A8:14:ILE:HB	1.63	0.95
34:BA:1373:G:H4'	42:BJ:36:LYS:NZ	1.79	0.95
34:BA:1539:C:H42	36:B1:50:G:H1	1.10	0.95
35:BC:3:G:N1	35:BC:70:C:O2	1.99	0.95
42:BJ:83:ALA:HB3	42:BJ:85:TYR:HE2	1.31	0.95
2:AA:291:C:N4	2:AA:349:G:N1	2.14	0.95
2:AA:2848:G:H21	2:AA:2849:U:H3	1.02	0.95
6:AF:81:PRO:C	6:AF:87:ARG:HH11	1.74	0.95
7:AG:29:HIS:ND1	7:AG:69:ILE:HD11	1.80	0.95
9:AJ:69:ASN:O	9:AJ:73:VAL:HG23	1.64	0.95
12:AM:41:ALA:HB3	12:AM:42:GLU:OE2	1.66	0.95
17:AR:7:ASP:OD1	17:AR:30:HIS:O	1.84	0.95
20:AU:73:HIS:HD2	20:AU:88:PRO:HB2	1.32	0.95
21:AV:103:ARG:NH2	21:AV:137:ASP:HB3	1.82	0.95
25:A1:20:ARG:CB	25:A1:39:LEU:HD11	1.96	0.95
26:A2:6:GLN:OE1	26:A2:10:LYS:HA	1.67	0.95
26:A2:59:GLU:HG2	26:A2:100:GLY:H	1.31	0.95
28:A4:38:GLY:O	28:A4:39:VAL:HG23	1.66	0.95
28:A4:58:LYS:HG2	28:A4:62:ARG:NH2	1.82	0.95
34:BA:1086:U:N3	34:BA:1099:G:N1	2.14	0.95
34:BA:1305:G:H5''	56:BX:5:ASP:N	1.81	0.95
34:BA:1350:A:H61	34:BA:1372:U:H3	1.01	0.95
35:BB:22:G:H2'	35:BB:23:A:H8	1.16	0.95
35:BB:70:C:H2'	35:BB:71:G:H8	1.24	0.95
35:BC:40:C:H2'	35:BC:41:U:C5'	1.96	0.95
39:BG:31:CYS:HB3	39:BG:33:MET:HG2	1.48	0.95
39:BG:93:PHE:CE2	39:BG:97:LEU:HD21	2.01	0.95
52:BT:83:ASP:O	52:BT:86:GLU:HB2	1.63	0.95
2:AA:271:G:H2'	2:AA:272:G:H8	1.32	0.95
2:AA:361:G:H2'	2:AA:362:U:C6	2.02	0.95
2:AA:1202:C:C4	2:AA:1243:G:N1	2.32	0.95
2:AA:1518:C:C2	2:AA:1519:G:H1'	2.01	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1804:C:H42	2:AA:1813:G:H1	1.13	0.95
2:AA:1809:A:O2'	2:AA:1810:A:OP1	1.81	0.95
2:AA:1917:U:H3'	2:AA:1918:A:H8	1.32	0.95
2:AA:2064:C:H1'	2:AA:2450:A:C6	2.00	0.95
2:AA:2287:A:O2'	2:AA:2288:A:O5'	1.85	0.95
8:AH:88:LEU:HD11	8:AH:95:ALA:N	1.81	0.95
34:BA:445:G:H1	34:BA:489:C:H42	1.11	0.95
34:BA:1316:G:H2'	34:BA:1318:A:OP2	1.67	0.95
46:BN:79:SER:HA	46:BN:104:GLN:CB	1.96	0.95
47:BO:28:LYS:CD	47:BO:33:ARG:HH12	1.79	0.95
2:AA:1796:U:H3	2:AA:1823:G:H1	0.99	0.95
2:AA:2226:C:H2'	2:AA:2227:A:C4'	1.96	0.95
2:AA:2792:G:N2	2:AA:2804:C:N3	2.14	0.95
6:AF:45:ASP:HB3	6:AF:98:ARG:NE	1.81	0.95
12:AM:84:ARG:HA	12:AM:98:PHE:CE2	2.01	0.95
13:AN:103:ALA:HA	13:AN:122:ILE:O	1.65	0.95
21:AV:105:GLN:HB2	21:AV:141:MET:HG2	1.49	0.95
23:AX:5:LYS:HA	23:AX:36:VAL:HG12	1.49	0.95
31:A7:35:ARG:HB3	31:A7:35:ARG:HH11	0.82	0.95
34:BA:481:G:H4'	34:BA:482:A:OP1	1.64	0.95
34:BA:679:C:H2'	34:BA:680:C:C6	2.02	0.95
35:BB:34:G:C2	35:BB:35:A:C2	2.49	0.95
37:BE:80:ILE:HD11	37:BE:208:ILE:HG23	1.48	0.95
38:BF:19:GLU:HG2	38:BF:54:ARG:HE	1.30	0.95
40:BH:76:ILE:CD1	40:BH:142:LEU:HD13	1.95	0.95
46:BN:58:PRO:O	46:BN:61:ALA:HB3	1.65	0.95
48:BP:20:THR:HA	48:BP:25:ILE:CG2	1.96	0.95
50:BR:62:GLN:NE2	50:BR:65:ARG:HH21	1.62	0.95
2:AA:250:G:H5''	32:A8:8:LYS:HE2	1.48	0.95
2:AA:442:G:H4'	6:AF:44:GLN:OE1	1.65	0.95
2:AA:663:G:O2'	2:AA:940:G:H4'	1.67	0.95
2:AA:774:A:C5'	2:AA:778:G:H4'	1.97	0.95
2:AA:1263:U:H4'	29:A5:16:ARG:NH1	1.80	0.95
2:AA:1275:A:N1	24:A0:16:HIS:HA	1.82	0.95
2:AA:1637:A:H4'	2:AA:2711:A:O2'	1.64	0.95
2:AA:2346:A:H1'	2:AA:2383:G:C8	2.00	0.95
2:AA:2542:A:H5'	2:AA:2543:G:OP1	1.65	0.95
2:AA:2652:C:N4	2:AA:2668:G:H1	1.64	0.95
12:AM:22:VAL:O	12:AM:26:VAL:HG23	1.66	0.95
13:AN:85:VAL:HG21	13:AN:114:ILE:HD11	1.49	0.95
25:A1:55:ARG:HA	25:A1:58:ARG:NE	1.82	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:372:C:H42	34:BA:389:A:H62	1.00	0.95
34:BA:1494:G:C2	34:BA:1495:U:C5	2.54	0.95
37:BE:130:ARG:NE	37:BE:130:ARG:HA	1.81	0.95
37:BE:150:SER:HA	37:BE:153:ARG:CB	1.97	0.95
38:BF:52:LEU:HA	38:BF:70:VAL:CG2	1.96	0.95
41:BI:36:ARG:HB3	41:BI:36:ARG:NH1	1.82	0.95
43:BK:95:VAL:HG22	43:BK:133:LEU:HD21	1.45	0.95
44:BL:55:ALA:HB3	44:BL:58:ARG:HE	1.32	0.95
2:AA:882:G:H2'	2:AA:883:G:C8	2.01	0.95
2:AA:986:C:H3'	2:AA:986:C:H6	1.30	0.95
2:AA:1173:G:H22	2:AA:1175:U:H5'	1.30	0.95
2:AA:1364:G:H3'	28:A4:3:LYS:HD3	0.98	0.95
2:AA:1504:C:H2'	2:AA:1505:C:H6	1.31	0.95
2:AA:2030:A:H4'	2:AA:2031:A:C8	2.01	0.95
2:AA:2225:A:H5''	2:AA:2226:C:C5'	1.97	0.95
2:AA:2243:U:O2'	2:AA:2244:U:H5'	1.66	0.95
4:AD:76:ARG:HD3	4:AD:113:MET:HB3	1.46	0.95
7:AG:18:ILE:HG21	7:AG:77:ASP:HA	1.48	0.95
7:AG:98:PHE:CA	7:AG:104:PHE:HD2	1.80	0.95
13:AN:63:VAL:HG12	13:AN:102:VAL:CG1	1.96	0.95
14:AO:117:GLU:HA	14:AO:136:ALA:O	1.65	0.95
15:AP:47:GLU:OE1	15:AP:151:SER:HA	1.65	0.95
34:BA:195:A:H4'	55:BW:68:LYS:NZ	1.80	0.95
34:BA:605:U:H2'	34:BA:606:G:H8	1.32	0.95
34:BA:1007:C:C2	34:BA:1022:G:N2	2.35	0.95
34:BA:1350:A:N6	34:BA:1372:U:H3	1.65	0.95
34:BA:1368:G:OP1	44:BL:113:LYS:HA	1.64	0.95
45:BM:3:LYS:O	45:BM:100:THR:HB	1.66	0.95
49:BQ:14:PRO:C	49:BQ:16:PHE:H	1.70	0.95
1:AB:11:C:N3	1:AB:109:G:O6	1.99	0.95
2:AA:273:G:H1	2:AA:364:C:H42	1.11	0.95
2:AA:295:G:C2	2:AA:344:G:N3	2.35	0.95
2:AA:527:C:H2'	12:AM:95:ARG:NH1	1.82	0.95
2:AA:605:C:H2'	2:AA:606:U:C6	2.01	0.95
2:AA:616:A:C5'	6:AF:42:ARG:HH12	1.80	0.95
2:AA:2021:C:OP2	29:A5:12:SER:HB2	1.65	0.95
2:AA:2421:G:H5''	30:A6:4:ASP:OD1	1.67	0.95
2:AA:2509:G:O2'	2:AA:2510:C:H5'	1.67	0.95
2:AA:2779:U:H5''	2:AA:2780:G:O5'	1.66	0.95
5:AE:193:PHE:CE2	5:AE:199:ALA:HB2	2.01	0.95
6:AF:47:GLY:HA2	6:AF:92:PRO:O	1.66	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:125:GLY:CA	10:AK:145:VAL:H	1.80	0.95
34:BA:489:C:H2'	34:BA:490:G:C8	2.02	0.95
34:BA:1193:G:C2'	34:BA:1194:U:H5'	1.97	0.95
37:BE:136:VAL:HA	37:BE:139:LYS:NZ	1.80	0.95
42:BJ:72:ARG:NH1	42:BJ:138:LYS:HZ1	1.64	0.95
44:BL:10:ARG:CA	44:BL:104:ARG:HE	1.78	0.95
2:AA:709:U:H2'	2:AA:710:G:C8	2.02	0.94
2:AA:718:A:H5''	2:AA:719:C:C5	2.02	0.94
2:AA:775:G:H5'	2:AA:777:A:H1'	1.49	0.94
2:AA:897:C:H4'	35:BB:56:C:C5	2.02	0.94
2:AA:1161:C:O2'	26:A2:22:VAL:HG11	1.66	0.94
2:AA:1508:A:H2'	2:AA:1509:C:C5	2.02	0.94
2:AA:1996:C:H2'	2:AA:1997:G:O5'	1.63	0.94
4:AD:208:GLY:N	4:AD:211:HIS:NE2	2.14	0.94
4:AD:222:PRO:C	4:AD:224:VAL:H	1.72	0.94
13:AN:43:VAL:HG21	13:AN:56:GLN:HB2	1.48	0.94
16:AQ:20:TYR:O	16:AQ:23:ARG:CB	2.15	0.94
19:AT:5:ILE:HG13	19:AT:40:ALA:HB1	1.49	0.94
34:BA:372:C:H42	34:BA:389:A:N6	1.64	0.94
34:BA:1190:G:OP1	38:BF:5:ILE:HG13	1.65	0.94
34:BA:1424:C:H42	34:BA:1476:G:H1	0.97	0.94
37:BE:178:ARG:HD2	37:BE:184:VAL:HG21	1.49	0.94
55:BW:23:ARG:C	55:BW:26:ASN:HD21	1.75	0.94
2:AA:511:U:C5	2:AA:512:G:N3	2.34	0.94
2:AA:1069:A:H4'	2:AA:1070:A:C5'	1.97	0.94
2:AA:1477:A:C2	2:AA:1516:U:N3	2.35	0.94
2:AA:2307:G:H1'	2:AA:2311:A:H61	1.29	0.94
2:AA:2457:U:H2'	2:AA:2458:G:H5'	1.46	0.94
2:AA:2652:C:H42	2:AA:2668:G:H1	0.94	0.94
3:AC:100:ILE:CG2	3:AC:126:LYS:HG2	1.97	0.94
8:AH:167:LEU:HG	8:AH:169:ARG:HH12	1.32	0.94
9:AI:23:LYS:HG3	9:AJ:46:GLY:HA3	1.49	0.94
12:AM:19:MET:HB3	12:AM:46:ILE:HD11	1.46	0.94
12:AM:84:ARG:HD3	12:AM:98:PHE:CD2	2.01	0.94
19:AT:11:THR:N	19:AT:14:ALA:HB3	1.80	0.94
20:AU:19:ARG:NH2	20:AU:68:ASP:HA	1.82	0.94
34:BA:52:G:H2'	34:BA:53:A:H8	1.30	0.94
35:BB:34:G:H1	36:B1:65:U:H2'	1.28	0.94
35:BB:37:G:C8	35:BB:37:G:O5'	2.20	0.94
41:BI:76:ALA:HB1	41:BI:80:ARG:HH21	1.14	0.94
42:BJ:124:LEU:O	42:BJ:127:ALA:HB3	1.67	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:95:ILE:HA	46:BN:98:LEU:CD1	1.97	0.94
48:BP:22:ILE:HD12	48:BP:25:ILE:HD11	1.49	0.94
2:AA:775:G:H21	2:AA:787:U:C3'	1.78	0.94
2:AA:849:A:N3	23:AX:21:ALA:HB1	1.82	0.94
2:AA:965:C:H5'	2:AA:2273:A:C1'	1.95	0.94
2:AA:1777:U:H2'	2:AA:1778:U:H6	1.30	0.94
2:AA:2296:U:H3'	2:AA:2296:U:C6	2.00	0.94
14:AO:67:ARG:NH1	14:AO:111:ALA:HB3	1.82	0.94
15:AP:137:ARG:O	15:AP:140:TYR:HB2	1.67	0.94
28:A4:56:VAL:O	28:A4:61:LYS:HE2	1.66	0.94
35:BC:51:G:H1	35:BC:63:C:H42	0.99	0.94
38:BF:12:LEU:HD13	38:BF:18:TRP:N	1.82	0.94
41:BI:89:MET:HB3	53:BU:76:LEU:HD11	1.48	0.94
43:BK:14:ARG:HB3	43:BK:14:ARG:HH11	1.31	0.94
53:BU:74:ARG:N	53:BU:79:LEU:HD21	1.80	0.94
1:AB:43:C:H42	1:AB:45:A:H62	0.95	0.94
2:AA:265:A:H2	2:AA:266:G:N3	1.64	0.94
2:AA:969:U:H2'	2:AA:970:C:O4'	1.66	0.94
2:AA:981:A:H1'	2:AA:2037:G:O4'	1.67	0.94
2:AA:1238:G:C2'	2:AA:1239:G:H5'	1.98	0.94
2:AA:1267:U:H5	2:AA:2012:G:H22	0.95	0.94
2:AA:1299:G:O6	2:AA:1639:U:H5''	1.66	0.94
2:AA:1472:A:N6	2:AA:1518:C:N4	2.14	0.94
2:AA:2590:A:H2'	2:AA:2591:C:H6	1.30	0.94
2:AA:2749:A:H4'	8:AH:61:ARG:HG2	1.45	0.94
24:A0:86:ARG:HB3	24:A0:86:ARG:NH1	1.81	0.94
34:BA:452:A:H2'	34:BA:453:A:C8	2.02	0.94
36:B1:14:U:H3	36:B1:42:G:H1	0.99	0.94
37:BE:47:THR:HB	37:BE:48:MET:SD	2.08	0.94
43:BK:6:ILE:HG23	43:BK:7:ALA:H	1.27	0.94
44:BL:32:ASP:CB	44:BL:35:GLU:HB2	1.97	0.94
45:BM:16:LEU:HD22	45:BM:94:VAL:HG22	1.49	0.94
51:BS:21:VAL:HG22	51:BS:36:ILE:HD13	1.45	0.94
1:AB:16:G:O2'	1:AB:17:C:H5'	1.65	0.94
2:AA:775:G:N2	2:AA:787:U:H2'	1.81	0.94
2:AA:777:A:O2'	2:AA:778:G:H5'	1.66	0.94
2:AA:988:A:OP1	23:AX:11:SER:HB2	1.65	0.94
2:AA:1002:G:N2	2:AA:1153:C:N3	2.13	0.94
2:AA:1054:A:C2	9:AI:28:LYS:HG2	2.01	0.94
2:AA:1058:G:N3	9:AI:3:ILE:HD11	1.82	0.94
2:AA:1076:C:HO2'	11:AL:91:GLU:HB3	1.12	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1995:U:C5'	2:AA:1996:C:H5''	1.95	0.94
4:AD:63:ILE:HA	4:AD:86:ARG:HH22	1.30	0.94
4:AD:128:ALA:HB2	4:AD:190:THR:CB	1.96	0.94
6:AF:52:ALA:HA	6:AF:55:ARG:NE	1.82	0.94
16:AQ:22:GLN:OE1	16:AQ:23:ARG:N	2.01	0.94
19:AT:11:THR:H	19:AT:14:ALA:CB	1.79	0.94
24:A0:79:LEU:HD23	24:A0:80:PHE:HA	1.48	0.94
25:A1:50:ARG:HA	25:A1:53:LYS:HZ2	1.27	0.94
34:BA:520:A:H62	34:BA:529:G:N2	1.64	0.94
34:BA:1136:U:H5''	34:BA:1137:C:OP2	1.67	0.94
37:BE:7:VAL:HG23	37:BE:8:LYS:H	1.28	0.94
39:BG:58:LEU:CD1	39:BG:59:ARG:HH11	1.81	0.94
48:BP:82:MET:SD	48:BP:93:ARG:HG3	2.07	0.94
51:BS:6:LEU:HD13	51:BS:6:LEU:N	1.82	0.94
1:AB:83:G:H4'	23:AX:52:HIS:HD2	1.31	0.94
2:AA:220:G:H4'	2:AA:234:C:H4'	1.47	0.94
2:AA:860:U:N3	2:AA:917:A:N6	2.14	0.94
2:AA:1083:U:H4'	9:AI:40:ALA:CB	1.97	0.94
2:AA:1613:G:H3'	2:AA:1614:A:C5'	1.98	0.94
2:AA:1759:A:OP2	2:AA:1759:A:H3'	1.67	0.94
2:AA:2107:C:N4	2:AA:2182:G:N1	2.15	0.94
2:AA:2253:G:H2'	2:AA:2254:C:H6	1.31	0.94
10:AK:124:LEU:CD2	10:AK:146:THR:HA	1.98	0.94
20:AU:47:THR:HG21	20:AU:100:ASP:HB2	1.49	0.94
34:BA:76:C:N4	34:BA:93:G:H1	1.64	0.94
34:BA:280:C:H1'	52:BT:38:ARG:NE	1.82	0.94
34:BA:463:A:H1'	51:BS:82:GLN:HE21	1.32	0.94
34:BA:582:U:H3	34:BA:759:A:H62	1.10	0.94
34:BA:946:A:H2'	34:BA:947:G:H8	1.25	0.94
34:BA:1128:C:H1'	34:BA:1146:A:N6	1.81	0.94
37:BE:166:ASP:O	37:BE:169:LYS:HB3	1.68	0.94
42:BJ:113:GLU:HG3	42:BJ:118:VAL:CB	1.97	0.94
44:BL:10:ARG:HA	44:BL:104:ARG:NE	1.81	0.94
46:BN:61:ALA:CB	46:BN:94:ALA:HB2	1.96	0.94
48:BP:23:TYR:O	48:BP:66:LEU:HB3	1.67	0.94
55:BW:49:ALA:CB	55:BW:99:LEU:HG	1.97	0.94
2:AA:660:G:H2'	2:AA:661:C:C6	2.03	0.94
2:AA:1240:U:H3'	2:AA:1241:A:C8	2.03	0.94
2:AA:1527:G:C2'	2:AA:1528:A:H5''	1.98	0.94
2:AA:1563:G:H2'	2:AA:1564:C:H6	1.28	0.94
2:AA:1612:C:N4	2:AA:1619:G:N1	2.02	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2111:C:N4	2:AA:2120:G:H1'	1.82	0.94
2:AA:2471:C:N3	2:AA:2479:G:N2	2.15	0.94
3:AC:104:LEU:HD12	3:AC:130:ILE:CD1	1.96	0.94
4:AD:161:ALA:HB1	4:AD:173:VAL:HG12	1.48	0.94
4:AD:167:GLU:HB2	4:AD:170:TYR:HE1	1.23	0.94
5:AE:222:ARG:HG2	5:AE:232:ARG:CA	1.98	0.94
9:AI:4:ASP:HA	9:AI:7:ILE:HD12	1.45	0.94
9:AJ:76:VAL:HG21	9:AJ:121:ALA:HB2	1.48	0.94
24:A0:31:HIS:HD2	24:A0:34:ILE:HD11	1.33	0.94
34:BA:299:G:N2	34:BA:566:G:O6	2.00	0.94
34:BA:715:A:H4'	34:BA:777:A:N6	1.82	0.94
34:BA:1263:C:H2'	34:BA:1264:C:C6	2.03	0.94
37:BE:68:ILE:O	37:BE:90:MET:HB3	1.67	0.94
40:BH:78:HIS:HB2	43:BK:104:ARG:CD	1.97	0.94
2:AA:34:C:H2'	2:AA:455:C:H41	1.32	0.94
2:AA:137:C:C2	2:AA:142:G:N2	2.35	0.94
2:AA:197:A:N6	2:AA:248:G:H22	1.66	0.94
2:AA:270:A:C2	2:AA:370:G:H1'	2.02	0.94
2:AA:563:G:N2	25:A1:37:GLN:HE22	1.66	0.94
2:AA:586:A:N1	2:AA:809:G:O2'	2.00	0.94
2:AA:961:C:C5	2:AA:2031:A:C2	2.56	0.94
2:AA:984:A:H3'	2:AA:985:C:C5	2.01	0.94
2:AA:1406:U:H2'	2:AA:1407:C:H6	1.32	0.94
2:AA:1425:G:H2'	2:AA:1426:G:C8	2.02	0.94
2:AA:1451:C:H3'	2:AA:1453:A:C4'	1.98	0.94
2:AA:1492:G:H1	2:AA:1498:C:H42	1.10	0.94
2:AA:1562:A:H2'	2:AA:1563:G:H8	1.31	0.94
2:AA:1718:G:N1	2:AA:1741:C:N4	2.15	0.94
2:AA:1840:G:H1	2:AA:1902:C:H42	1.13	0.94
2:AA:1889:A:H2'	2:AA:1890:A:C8	2.02	0.94
2:AA:2584:U:H6	2:AA:2584:U:C3'	1.80	0.94
2:AA:2661:G:H2'	2:AA:2662:A:C8	2.01	0.94
3:AC:59:ARG:HD2	3:AC:164:ARG:CD	1.98	0.94
4:AD:76:ARG:CD	4:AD:113:MET:HB3	1.97	0.94
5:AE:45:LYS:HB3	5:AE:305:LYS:HA	1.46	0.94
5:AE:237:ASN:C	5:AE:238:LEU:HD22	1.93	0.94
10:AK:86:GLY:O	10:AK:123:ALA:HA	1.67	0.94
13:AN:22:ILE:HB	13:AN:40:VAL:O	1.68	0.94
15:AP:65:ARG:CZ	15:AP:85:ILE:HB	1.98	0.94
24:A0:42:LYS:O	24:A0:45:ARG:HB3	1.68	0.94
26:A2:1:MET:O	26:A2:15:SER:HB2	1.67	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:A5:10:LYS:HZ2	29:A5:10:LYS:CA	1.80	0.94
30:A6:19:GLY:HA3	30:A6:42:PRO:CB	1.98	0.94
34:BA:132:C:N4	34:BA:230:G:H1	1.64	0.94
34:BA:536:C:H2'	34:BA:537:G:H5'	1.49	0.94
34:BA:594:G:H2'	34:BA:595:G:O4'	1.68	0.94
35:BB:12:U:H3	35:BB:24:G:N2	1.62	0.94
37:BE:49:GLU:O	37:BE:52:GLU:HB3	1.66	0.94
38:BF:47:LEU:CD1	38:BF:83:ARG:HH21	1.79	0.94
39:BG:9:CYS:SG	39:BG:31:CYS:C	2.51	0.94
39:BG:105:VAL:HG21	39:BG:121:VAL:CG2	1.96	0.94
41:BI:91:VAL:HG21	53:BU:72:ARG:NH1	1.81	0.94
43:BK:14:ARG:HB3	43:BK:14:ARG:NH1	1.81	0.94
47:BO:27:LEU:CD2	47:BO:33:ARG:HH11	1.78	0.94
47:BO:41:ARG:HG2	47:BO:42:THR:N	1.74	0.94
47:BO:85:ILE:CD1	47:BO:98:TYR:HB3	1.97	0.94
2:AA:237:C:H42	2:AA:260:G:H1	1.13	0.94
2:AA:880:G:N2	2:AA:897:C:N3	2.15	0.94
2:AA:912:C:OP1	15:AP:16:ARG:NH2	2.00	0.94
2:AA:1006:C:O2'	12:AM:86:MET:HB3	1.68	0.94
2:AA:1169:G:N2	2:AA:1180:C:N3	2.15	0.94
2:AA:1675:C:H42	5:AE:228:ARG:HH22	1.15	0.94
2:AA:1792:G:H1	2:AA:1827:C:N4	1.64	0.94
2:AA:2013:A:H2'	2:AA:2014:A:O4'	1.66	0.94
2:AA:2252:G:H22	35:BC:74:C:N4	1.65	0.94
2:AA:2264:C:N4	2:AA:2276:G:H1	1.64	0.94
2:AA:2730:C:H4'	5:AE:265:ASN:ND2	1.80	0.94
2:AA:2895:U:H2'	2:AA:2896:C:C6	2.02	0.94
16:AQ:110:THR:HG22	16:AQ:115:VAL:HG23	1.49	0.94
27:A3:44:LYS:HA	27:A3:64:ASP:OD1	1.67	0.94
34:BA:121:C:H4'	34:BA:122:G:OP1	1.64	0.94
34:BA:764:C:H2'	34:BA:765:G:C8	2.03	0.94
34:BA:932:C:H5''	42:BJ:3:ARG:HD2	1.48	0.94
35:BB:15:G:H2'	35:BB:16:U:OP2	1.68	0.94
39:BG:193:ASP:C	39:BG:194:LEU:HD22	1.93	0.94
44:BL:16:ARG:HG2	44:BL:18:PHE:CE1	2.03	0.94
44:BL:62:TYR:C	44:BL:63:ILE:HD12	1.92	0.94
54:BV:5:LEU:HD12	54:BV:9:VAL:HG13	1.49	0.94
2:AA:295:G:H1	2:AA:344:G:C2	1.22	0.94
2:AA:336:C:O2'	2:AA:337:C:H5'	1.68	0.94
2:AA:633:A:H4'	2:AA:2404:C:OP1	1.68	0.94
2:AA:142(A):A:H4'	12:AM:21:ARG:HH21	1.06	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1650:G:H5'	24:A0:104:ARG:HH22	1.31	0.94
2:AA:1935:G:C4	2:AA:1962:C:C4	2.56	0.94
2:AA:2406:U:N3	14:AO:55:GLN:HB3	1.83	0.94
2:AA:2635:C:N4	2:AA:2783:G:N1	2.15	0.94
2:AA:2655:G:N3	2:AA:2655:G:H2'	1.81	0.94
7:AG:13:MET:HA	7:AG:13:MET:HE3	1.47	0.94
7:AG:27:ILE:O	7:AG:69:ILE:HG23	1.66	0.94
25:A1:103:PRO:O	25:A1:107:LYS:HG2	1.67	0.94
27:A3:37:LEU:HB3	27:A3:69:PHE:CD2	2.03	0.94
27:A3:38:VAL:C	27:A3:40:GLN:H	1.74	0.94
29:A5:40:LYS:NZ	29:A5:46:CYS:HB2	1.84	0.94
34:BA:975:A:H4'	34:BA:976:G:C5'	1.96	0.94
36:B1:59:A:H2'	36:B1:60:A:O5'	1.67	0.94
41:BI:77:ARG:HA	41:BI:80:ARG:CD	1.96	0.94
50:BR:36:ILE:CD1	50:BR:63:ARG:HD3	1.96	0.94
2:AA:625:G:O2'	2:AA:656:G:H4'	1.68	0.93
2:AA:660:G:H2'	2:AA:661:C:H6	1.29	0.93
2:AA:1028:A:H1'	2:AA:2487:G:OP1	1.67	0.93
2:AA:1365:A:H2'	2:AA:1366:A:H8	1.33	0.93
2:AA:1493:C:N4	2:AA:1499:C:N3	2.14	0.93
2:AA:1681:G:O2'	2:AA:1763:G:H5'	1.66	0.93
2:AA:2010:G:H2'	2:AA:2011:U:H5'	1.48	0.93
2:AA:2023:G:N2	2:AA:2040:C:N3	2.15	0.93
2:AA:2057:A:H5'	29:A5:8:LYS:HZ3	1.29	0.93
2:AA:2111:C:H41	2:AA:2120:G:C1'	1.81	0.93
2:AA:2149:G:H2'	2:AA:2150:U:H5'	1.46	0.93
2:AA:2334:G:H1'	16:AQ:21:HIS:ND1	1.82	0.93
5:AE:77:PRO:HB2	5:AE:187:HIS:N	1.82	0.93
9:AJ:4:ASP:HA	9:AJ:7:ILE:HD12	1.49	0.93
9:AJ:73:VAL:HA	9:AJ:121:ALA:HB1	1.50	0.93
14:AO:66:VAL:N	14:AO:67:ARG:HH21	1.65	0.93
15:AP:43:PRO:HD3	21:AV:99:HIS:NE2	1.83	0.93
15:AP:59:ASN:ND2	15:AP:60:ALA:H	1.67	0.93
17:AR:49:LEU:HD23	17:AR:49:LEU:C	1.93	0.93
18:AS:88:ARG:C	18:AS:90:ARG:H	1.72	0.93
32:A8:13:ARG:HB3	32:A8:24:ALA:HB1	1.49	0.93
34:BA:95:U:H2'	34:BA:96:G:C8	2.03	0.93
34:BA:99:C:H2'	34:BA:101:A:C8	2.03	0.93
34:BA:948:C:P	48:BP:109:THR:HB	2.08	0.93
35:BC:69:U:H2'	35:BC:70:C:H6	1.33	0.93
38:BF:33:LEU:HD11	49:BQ:54:PRO:HD2	0.96	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:82:GLU:HG3	38:BF:83:ARG:N	1.78	0.93
2:AA:209:C:O2'	2:AA:210:C:H5'	1.66	0.93
2:AA:1013:C:H2'	2:AA:1014:U:H6	1.30	0.93
2:AA:1024:G:O6	2:AA:1025:G:N7	2.01	0.93
2:AA:1781:C:H6	2:AA:1781:C:H3'	1.33	0.93
2:AA:2406:U:H3	14:AO:55:GLN:HB3	1.34	0.93
6:AF:236:THR:O	6:AF:239:ALA:HB3	1.66	0.93
14:AO:141:GLU:OE2	14:AO:145:LEU:HB2	1.68	0.93
16:AQ:16:ALA:O	16:AQ:18:THR:HG22	1.68	0.93
16:AQ:49:THR:O	16:AQ:55:ASP:HB3	1.69	0.93
19:AT:6:LYS:CD	19:AT:27:ALA:HB1	1.97	0.93
27:A3:37:LEU:O	27:A3:40:GLN:HG3	1.67	0.93
30:A6:42:PRO:HG2	30:A6:44:ALA:O	1.68	0.93
32:A8:62:LEU:HB2	32:A8:63:PRO:HD3	1.48	0.93
34:BA:228:A:O2'	34:BA:229:U:H5'	1.67	0.93
34:BA:513:C:H2'	34:BA:514:C:H6	1.33	0.93
34:BA:1210:C:H5''	34:BA:1214:C:H42	1.32	0.93
34:BA:1263:C:H2'	34:BA:1264:C:H6	1.32	0.93
42:BJ:68:ASN:HD21	42:BJ:128:ALA:HA	1.13	0.93
53:BU:21:LYS:HE2	53:BU:57:GLY:HA3	1.51	0.93
53:BU:79:LEU:O	53:BU:79:LEU:HD22	1.68	0.93
2:AA:290:G:N1	2:AA:350:U:C2	2.35	0.93
2:AA:1300:U:C1'	2:AA:1626:G:N2	2.32	0.93
2:AA:1359:A:N7	2:AA:1372:U:O4	2.01	0.93
2:AA:1551:C:H2'	2:AA:1552:G:C8	2.04	0.93
2:AA:2023:G:H1	2:AA:2040:C:H42	0.94	0.93
2:AA:2564:A:H2'	2:AA:2565:A:C8	2.02	0.93
2:AA:2596:U:H3'	2:AA:2597:G:C8	2.02	0.93
3:AC:28:LEU:HA	3:AC:31:GLU:CD	1.93	0.93
17:AR:49:LEU:CD2	17:AR:54:THR:HG22	1.97	0.93
34:BA:247:G:OP2	52:BT:99:SER:HA	1.65	0.93
34:BA:327:A:H4'	34:BA:328:C:OP1	1.67	0.93
34:BA:628:G:H2'	34:BA:629:G:H8	1.32	0.93
34:BA:828:A:H2'	34:BA:829:G:O4'	1.67	0.93
35:BC:74:C:C2'	35:BC:75:C:H5''	1.98	0.93
41:BI:81:ILE:HG22	41:BI:82:ARG:H	1.34	0.93
48:BP:13:LYS:HA	48:BP:44:ARG:NE	1.83	0.93
2:AA:13:A:N6	2:AA:525:U:C6	2.36	0.93
2:AA:125:G:H5'	31:A7:19:ARG:HD2	1.49	0.93
2:AA:278:A:C2	2:AA:362:U:N3	2.37	0.93
2:AA:2256:G:H5'	27:A3:5:LYS:HG3	1.48	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2286:A:H3'	2:AA:2286:A:C8	2.04	0.93
2:AA:2649:U:O2'	2:AA:2650:U:H5'	1.68	0.93
8:AH:29:LYS:HE3	8:AH:81:GLY:H	1.29	0.93
11:AL:28:LEU:HD11	11:AL:58:ILE:HD12	1.50	0.93
14:AO:62:ALA:N	14:AO:107:LYS:HE3	1.84	0.93
15:AP:56:ILE:HD11	15:AP:115:SER:CB	1.99	0.93
21:AV:40:ASP:O	21:AV:44:ARG:HG2	1.67	0.93
25:A1:15:LYS:O	25:A1:18:LEU:HB2	1.68	0.93
30:A6:19:GLY:O	30:A6:44:ALA:HB2	1.69	0.93
34:BA:42:G:H2'	34:BA:43:C:C6	2.03	0.93
34:BA:1440:C:H2'	34:BA:1441:G:O4'	1.68	0.93
42:BJ:104:LEU:HD23	42:BJ:104:LEU:H	1.33	0.93
44:BL:17:VAL:HG13	44:BL:63:ILE:HG12	1.49	0.93
1:AB:49:C:H2'	1:AB:50:G:C8	2.03	0.93
2:AA:457:A:H1'	2:AA:459:U:O2	1.66	0.93
2:AA:784:A:C2'	2:AA:785:G:H5'	1.98	0.93
2:AA:824:A:H2'	2:AA:825:C:C5	2.03	0.93
2:AA:1044:G:H2'	2:AA:1111:A:C2	2.03	0.93
2:AA:1222:C:O2'	2:AA:1223:C:H5'	1.68	0.93
2:AA:1393:A:H61	19:AT:13:LYS:HZ2	1.17	0.93
2:AA:2391:G:O2'	2:AA:2392:A:H5'	1.69	0.93
3:AC:59:ARG:NH1	3:AC:164:ARG:HH11	1.65	0.93
6:AF:151:GLN:HA	6:AF:154:VAL:HG23	1.51	0.93
8:AH:98:GLN:HB2	8:AH:103:VAL:CG2	1.98	0.93
10:AK:88:ARG:CA	10:AK:122:ARG:O	2.15	0.93
15:AP:15:THR:CB	15:AP:20:ILE:HG12	1.98	0.93
15:AP:142:LYS:HE3	15:AP:143:VAL:CA	1.97	0.93
19:AT:28:VAL:HG23	19:AT:62:LYS:HB3	1.47	0.93
27:A3:80:SER:C	27:A3:81:ILE:HD12	1.94	0.93
30:A6:18:THR:C	30:A6:20:PHE:N	2.19	0.93
34:BA:581:G:H4'	50:BR:64:ARG:HH11	1.32	0.93
34:BA:597:G:N2	43:BK:94:TYR:HE2	1.65	0.93
34:BA:1323:G:H2'	34:BA:1324:A:H8	1.34	0.93
37:BE:14:GLY:O	37:BE:15:VAL:HG13	1.69	0.93
41:BI:76:ALA:CB	41:BI:80:ARG:HH21	1.81	0.93
42:BJ:106:GLN:HA	42:BJ:109:ASN:ND2	1.82	0.93
43:BK:64:LYS:CG	43:BK:79:VAL:HG21	1.99	0.93
2:AA:106:C:H2'	2:AA:107:C:H5'	1.51	0.93
2:AA:245:G:H1	2:AA:253:C:H42	1.13	0.93
2:AA:299:A:H1'	2:AA:319:C:O2'	1.66	0.93
2:AA:343:C:C2'	2:AA:344:G:H5'	1.99	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:612:G:H4'	2:AA:616:A:H61	1.13	0.93
2:AA:624:C:H2'	2:AA:624:C:O2	1.68	0.93
2:AA:1166:C:N4	2:AA:1183:G:H1	1.64	0.93
2:AA:2013:A:OP1	18:AS:96:ILE:HB	1.67	0.93
2:AA:2285:C:O4'	2:AA:2288:A:N6	2.02	0.93
2:AA:2599:G:H2'	2:AA:2600:A:O4'	1.68	0.93
3:AC:104:LEU:HB3	3:AC:126:LYS:HE3	1.48	0.93
5:AE:222:ARG:CG	5:AE:232:ARG:HA	1.98	0.93
13:AN:85:VAL:HG21	13:AN:114:ILE:CD1	1.99	0.93
18:AS:40:ASN:ND2	18:AS:41:LYS:H	1.65	0.93
25:A1:114:ARG:O	25:A1:117:ARG:HG3	1.69	0.93
26:A2:4:ILE:HA	26:A2:12:TYR:CD2	2.04	0.93
29:A5:10:LYS:HA	29:A5:10:LYS:NZ	1.82	0.93
33:A9:10:MET:HB2	33:A9:32:HIS:CD2	2.03	0.93
34:BA:783:C:H2'	34:BA:784:C:H5'	1.50	0.93
34:BA:1104:G:O2'	34:BA:1105:A:H5'	1.69	0.93
34:BA:1479:C:C2'	34:BA:1480:G:H5'	1.98	0.93
39:BG:88:VAL:HG22	40:BH:96:PRO:HB3	1.51	0.93
46:BN:65:ALA:HB1	46:BN:98:LEU:CD2	1.98	0.93
48:BP:22:ILE:HB	48:BP:25:ILE:CG1	1.99	0.93
51:BS:21:VAL:HG22	51:BS:36:ILE:CD1	1.98	0.93
1:AB:115:G:C5'	16:AQ:59:ALA:HB2	1.98	0.93
2:AA:854:G:H2'	2:AA:855:G:H8	1.32	0.93
2:AA:957:A:N7	2:AA:959:A:C5	2.37	0.93
2:AA:1065:U:H3'	2:AA:1066:U:H5''	1.47	0.93
2:AA:1083:U:O3'	9:AI:37:VAL:C	2.11	0.93
2:AA:1614:A:H62	18:AS:88:ARG:HB2	1.26	0.93
2:AA:1666:G:O6	2:AA:1667:G:N2	2.02	0.93
2:AA:1993:U:H4'	5:AE:228:ARG:NH2	1.84	0.93
2:AA:2285:C:H5	30:A6:28:ARG:HH21	0.96	0.93
2:AA:2818:G:H4'	2:AA:2837:G:H4'	1.51	0.93
3:AC:100:ILE:HG22	3:AC:126:LYS:CG	1.99	0.93
4:AD:122:ASP:O	4:AD:124:LYS:N	2.00	0.93
4:AD:165:GLY:O	4:AD:172:ILE:CB	2.15	0.93
5:AE:70:VAL:HG13	5:AE:296:VAL:O	1.67	0.93
8:AH:88:LEU:HB3	8:AH:128:THR:O	1.68	0.93
12:AM:76:ASP:O	12:AM:80:LYS:HG2	1.68	0.93
16:AQ:31:LYS:HB3	16:AQ:32:PRO:HD3	1.50	0.93
29:A5:40:LYS:HZ2	29:A5:49:CYS:CB	1.82	0.93
34:BA:5:U:C5	39:BG:86:LYS:HE3	2.02	0.93
34:BA:130:A:H4'	34:BA:190(F):G:C2	2.04	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:715:A:C4'	34:BA:777:A:N6	2.32	0.93
34:BA:1481:U:H2'	34:BA:1482:G:C8	2.03	0.93
37:BE:101:MET:HA	37:BE:108:ILE:HG13	1.48	0.93
39:BG:175:SER:OG	39:BG:186:LEU:HD21	1.67	0.93
42:BJ:75:VAL:HG22	42:BJ:88:PRO:CA	1.98	0.93
48:BP:84:ILE:HG13	48:BP:85:GLY:N	1.84	0.93
55:BW:100:ILE:O	55:BW:102:GLY:N	2.00	0.93
2:AA:93:C:H2'	2:AA:94:G:H8	1.31	0.93
2:AA:269:U:H3	2:AA:270:A:H62	1.09	0.93
2:AA:407:G:H1	2:AA:420:C:N4	1.66	0.93
2:AA:1568:G:O5'	4:AD:60:GLN:HG2	1.68	0.93
2:AA:1663:C:H2'	2:AA:1664:A:N7	1.82	0.93
2:AA:1819:A:H4'	2:AA:1820:U:C5'	1.99	0.93
2:AA:2369:A:H2'	2:AA:2370:G:H8	1.28	0.93
3:AC:68:LEU:HB3	3:AC:72:VAL:HG21	1.51	0.93
5:AE:76:PRO:HA	5:AE:292:PRO:HG2	1.49	0.93
6:AF:61:PHE:C	6:AF:65:ARG:NH2	2.27	0.93
8:AH:97:LYS:HB2	8:AH:124:VAL:HG11	1.49	0.93
13:AN:43:VAL:HB	13:AN:56:GLN:H	1.30	0.93
13:AN:104:ARG:HH11	13:AN:122:ILE:HA	1.31	0.93
15:AP:17:ARG:C	15:AP:22:GLY:HA3	1.93	0.93
22:AW:26:GLU:HA	22:AW:29:ASN:ND2	1.82	0.93
34:BA:138:G:H1	34:BA:225:C:N4	1.65	0.93
34:BA:345:C:H4'	34:BA:346:G:O5'	1.65	0.93
34:BA:818:G:H3'	34:BA:819:A:H5''	1.49	0.93
34:BA:990:C:H2'	34:BA:991:U:C6	2.03	0.93
34:BA:1489:G:C2'	34:BA:1490:C:H5''	1.98	0.93
43:BK:10:LEU:HD22	43:BK:135:CYS:SG	2.09	0.93
2:AA:270(D):C:O2	2:AA:270(D):C:H2'	1.68	0.93
2:AA:530:G:H1	2:AA:2021:C:C5'	1.82	0.93
2:AA:1102:C:H1'	2:AA:1103:A:C8	2.04	0.93
2:AA:1319:G:O2'	2:AA:1320:C:H5'	1.69	0.93
2:AA:2113:U:OP2	2:AA:2116:G:H2'	1.68	0.93
7:AG:106:PHE:O	7:AG:130:VAL:HG23	1.67	0.93
16:AQ:38:LYS:HZ1	16:AQ:114:LYS:HD2	1.32	0.93
21:AV:16:GLU:N	21:AV:36:ARG:HH12	1.67	0.93
21:AV:21:ALA:HB3	21:AV:34:LEU:HD11	1.49	0.93
24:A0:63:ARG:HH21	24:A0:77:ARG:HG2	1.34	0.93
25:A1:89:ASP:CG	26:A2:52:GLY:N	2.26	0.93
34:BA:440:A:N6	34:BA:495:U:C5	2.36	0.93
34:BA:459:G:N2	34:BA:463:A:H62	1.67	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:5:A:C2	35:BB:69:U:O2	2.21	0.93
43:BK:34:GLU:O	43:BK:37:ARG:HB3	1.68	0.93
47:BO:25:PRO:C	47:BO:27:LEU:H	1.76	0.93
55:BW:53:LEU:O	55:BW:56:MET:HB2	1.68	0.93
2:AA:342:G:C2	2:AA:344:G:N2	2.36	0.93
2:AA:398:G:N2	2:AA:399:G:H1'	1.84	0.93
2:AA:1020:A:H2	2:AA:1140:C:HO2'	1.13	0.93
2:AA:1030:G:H1	2:AA:1124:C:H42	0.94	0.93
2:AA:1060:U:OP1	11:AL:74:PRO:HA	1.68	0.93
2:AA:1173:G:N2	2:AA:1175:U:C5'	2.31	0.93
4:AD:160:SER:O	4:AD:176:ALA:HB2	1.69	0.93
5:AE:77:PRO:HG2	5:AE:186:GLU:HB2	1.47	0.93
10:AK:6:LEU:O	10:AK:7:LYS:HB2	1.68	0.93
14:AO:92:ASP:HB2	14:AO:118:LEU:CD2	1.98	0.93
15:AP:71:PHE:CB	15:AP:138:ARG:HH11	1.82	0.93
18:AS:82:LEU:HB2	18:AS:98:LYS:HB2	1.51	0.93
22:AW:5:VAL:HG13	22:AW:59:ILE:HD12	1.51	0.93
27:A3:68:VAL:HG21	27:A3:72:LYS:HE3	1.51	0.93
28:A4:5:LEU:O	28:A4:56:VAL:HG13	1.68	0.93
28:A4:68:ARG:HH11	28:A4:72:LYS:HE2	1.33	0.93
34:BA:955:U:H1'	34:BA:1227:A:H61	1.32	0.93
34:BA:1127:G:N2	34:BA:1144:G:H22	1.66	0.93
34:BA:1451:A:H5''	34:BA:1452:C:C5	2.04	0.93
37:BE:21:ARG:HD2	37:BE:21:ARG:H	1.30	0.93
38:BF:47:LEU:O	38:BF:52:LEU:HD22	1.69	0.93
43:BK:38:ILE:HG13	43:BK:118:VAL:HG11	1.51	0.93
43:BK:104:ARG:HB3	43:BK:107:LEU:HG	1.51	0.93
1:AB:12:C:H3'	27:A3:53:MET:SD	2.08	0.92
2:AA:659:C:H5'	6:AF:103:ASN:OD1	1.69	0.92
2:AA:853:G:H2'	2:AA:854:G:H8	1.30	0.92
2:AA:969:U:H2'	2:AA:970:C:H6	1.34	0.92
2:AA:1020:A:H4'	12:AM:49:ARG:HH12	1.34	0.92
2:AA:1222:C:H42	2:AA:1227:A:H62	0.94	0.92
2:AA:1252:G:H22	25:A1:37:GLN:HE21	0.93	0.92
2:AA:1355:G:H22	2:AA:1377:G:H1'	1.26	0.92
2:AA:1414:G:N1	2:AA:1588:C:N4	2.16	0.92
6:AF:153:VAL:O	6:AF:157:LEU:HG	1.69	0.92
10:AK:108:LEU:HD23	10:AK:109:LYS:H	1.29	0.92
14:AO:73:VAL:HA	14:AO:76:LEU:HB2	1.49	0.92
15:AP:35:ASN:H	15:AP:76:GLY:H	1.09	0.92
34:BA:665:A:H2'	34:BA:725:G:H22	1.28	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1338:G:N2	35:BC:41:U:H1'	1.81	0.92
36:B1:20:A:H61	36:B1:34:U:H3	1.08	0.92
48:BP:13:LYS:HD3	48:BP:17:VAL:HG12	1.51	0.92
1:AB:21:G:N2	1:AB:62:C:N3	2.17	0.92
2:AA:1613:G:H2'	2:AA:1617:C:N4	1.82	0.92
2:AA:1664:A:N1	2:AA:1665:A:N6	2.16	0.92
2:AA:2640:G:H1	2:AA:2774:C:H42	0.96	0.92
3:AC:91:ALA:HA	3:AC:153:ILE:HG21	1.48	0.92
5:AE:61:PRO:CB	5:AE:69:PRO:HA	1.97	0.92
5:AE:211:GLN:CD	5:AE:215:LYS:HG3	1.95	0.92
10:AK:94:THR:CG2	10:AK:96:LYS:HB3	1.98	0.92
15:AP:26:LYS:HD2	15:AP:89:PRO:CD	1.98	0.92
15:AP:67:ALA:N	15:AP:70:ARG:CZ	2.32	0.92
17:AR:49:LEU:HD22	17:AR:54:THR:HG22	1.47	0.92
23:AX:22:ALA:O	23:AX:26:LEU:HG	1.69	0.92
34:BA:409:G:H1	34:BA:433:C:H42	0.94	0.92
34:BA:533:A:H2'	34:BA:535:A:OP2	1.69	0.92
34:BA:657:G:H2'	34:BA:658:G:H5'	1.49	0.92
34:BA:985:C:N3	34:BA:1220:G:N2	2.17	0.92
34:BA:1133:G:H1	34:BA:1141:C:H42	0.93	0.92
34:BA:1310:G:H2'	34:BA:1311:G:C8	2.04	0.92
35:BB:2:C:N4	35:BB:71:G:O6	2.02	0.92
39:BG:12:CYS:CA	39:BG:19:LEU:HB2	1.98	0.92
40:BH:89:ILE:HG12	40:BH:131:ILE:CD1	1.98	0.92
41:BI:69:GLU:O	41:BI:72:VAL:HG23	1.69	0.92
50:BR:3:ILE:CG2	50:BR:38:ARG:HH21	1.81	0.92
2:AA:231:C:C4	2:AA:232:G:N2	2.37	0.92
2:AA:270(S):G:H2'	2:AA:270(T):G:C8	2.04	0.92
2:AA:457:A:C8	2:AA:471:A:N6	2.37	0.92
2:AA:1139:G:O2'	2:AA:142(A):A:N3	2.02	0.92
2:AA:1298:C:H4'	2:AA:1302:A:H62	1.32	0.92
9:AI:69:ASN:HB2	9:AI:122:GLY:HA3	1.51	0.92
34:BA:50:A:N6	34:BA:361:G:H4'	1.83	0.92
37:BE:102:LEU:CD2	37:BE:176:GLU:HB2	1.99	0.92
39:BG:155:LEU:HB2	39:BG:158:ILE:HG12	1.51	0.92
48:BP:24:GLY:HA3	48:BP:66:LEU:HB3	1.52	0.92
50:BR:74:ASP:CG	50:BR:76:GLU:HB3	1.93	0.92
50:BR:77:ARG:HH11	50:BR:77:ARG:HB3	1.32	0.92
2:AA:14:A:N7	2:AA:15:G:C4	2.37	0.92
2:AA:530:G:H3'	2:AA:530:G:P	2.09	0.92
2:AA:1272:A:O2'	2:AA:1273:U:OP1	1.86	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1439:A:H2'	2:AA:1440:G:H5'	1.50	0.92
2:AA:1697:G:H3'	2:AA:1698:A:C5'	1.99	0.92
2:AA:1782:C:H5''	2:AA:1783:A:P	2.10	0.92
2:AA:2081:C:C5'	28:A4:35:VAL:HG21	2.00	0.92
2:AA:2359:C:H4'	32:A8:52:LYS:CE	1.99	0.92
2:AA:2376:A:H2	16:AQ:102:LEU:HD22	1.34	0.92
2:AA:2507:C:H2'	2:AA:2508:G:H8	1.34	0.92
2:AA:2689:U:H5'	2:AA:2690:C:H5'	1.49	0.92
9:AI:73:VAL:HA	9:AI:121:ALA:HB1	1.50	0.92
21:AV:51:LEU:HD21	21:AV:64:ALA:N	1.83	0.92
34:BA:236:G:H2'	34:BA:237:C:C6	2.03	0.92
34:BA:697:U:H2'	34:BA:698:G:O5'	1.67	0.92
34:BA:965:A:H1'	34:BA:969:A:C8	2.05	0.92
34:BA:1001:A:N1	34:BA:1040:U:O4	2.01	0.92
34:BA:1269:A:H8	34:BA:1270:C:O4'	1.53	0.92
46:BN:31:THR:HG23	46:BN:42:TRP:HB3	1.48	0.92
48:BP:11:ARG:HG3	48:BP:11:ARG:HH11	1.34	0.92
2:AA:1036:G:OP1	8:AH:59:HIS:HE1	1.51	0.92
2:AA:1365:A:H5''	28:A4:3:LYS:HD2	1.49	0.92
2:AA:1519:G:H4'	2:AA:1519:G:OP1	1.70	0.92
2:AA:2681:C:C5	2:AA:2727:G:N2	2.36	0.92
2:AA:2699:C:N4	2:AA:2708:G:N1	2.18	0.92
3:AC:173:ALA:HB1	3:AC:174:PRO:HD2	1.51	0.92
9:AJ:69:ASN:HB2	9:AJ:122:GLY:HA3	1.50	0.92
10:AK:110:LEU:CD2	10:AK:114:LYS:HG3	1.98	0.92
12:AM:137:GLU:HA	12:AM:141:ALA:HB2	0.97	0.92
14:AO:66:VAL:HG23	14:AO:109:LEU:O	1.68	0.92
21:AV:70:GLN:HG3	21:AV:72:ASP:HB3	1.51	0.92
28:A4:5:LEU:CD1	28:A4:60:ASN:HD21	1.82	0.92
29:A5:50:GLY:HA2	29:A5:57:VAL:HB	1.48	0.92
32:A8:4:MET:HB2	32:A8:7:HIS:CE1	2.04	0.92
32:A8:15:LYS:O	32:A8:22:VAL:HG13	1.70	0.92
34:BA:129(A):G:C6	34:BA:190(D):U:H4'	2.03	0.92
34:BA:531:U:H4'	34:BA:532:A:C5'	1.99	0.92
34:BA:777:A:H2'	34:BA:778:G:H8	1.32	0.92
34:BA:1126:U:H2'	34:BA:1127:G:C8	2.04	0.92
34:BA:1470:G:O2'	34:BA:1471:G:H5'	1.70	0.92
38:BF:38:ARG:HB2	38:BF:94:LEU:HD21	1.49	0.92
42:BJ:145:ALA:O	42:BJ:146:GLU:HB3	1.69	0.92
2:AA:136:G:O3'	2:AA:137:C:H4'	1.70	0.92
2:AA:612:G:H2'	2:AA:615:G:C4	2.05	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:872:A:O2'	15:AP:31:PHE:HB2	1.69	0.92
2:AA:878:A:C2	2:AA:879:G:H5''	2.04	0.92
2:AA:1434:A:H61	2:AA:1558:A:H61	1.16	0.92
2:AA:1471:A:H62	2:AA:1519:G:N2	1.66	0.92
2:AA:1942:C:H3'	2:AA:1942:C:OP2	1.70	0.92
2:AA:2028:U:H2'	2:AA:2029:G:C8	2.05	0.92
2:AA:2231:C:H2'	2:AA:2232:U:H6	1.21	0.92
2:AA:2771:C:H5'	5:AE:316:ARG:HD2	1.52	0.92
2:AA:2785:C:H4'	5:AE:99:VAL:CA	1.99	0.92
5:AE:109:ASP:OD2	5:AE:112:LEU:HG	1.68	0.92
8:AH:10:ILE:HD11	8:AH:16:VAL:HG21	1.51	0.92
25:A1:24:PHE:CE1	25:A1:29:SER:HA	2.04	0.92
25:A1:89:ASP:OD2	26:A2:52:GLY:N	2.01	0.92
30:A6:12:MET:HB2	30:A6:27:ASN:ND2	1.84	0.92
32:A8:23:MET:HE1	32:A8:48:PHE:CB	1.98	0.92
34:BA:1026:G:H2'	34:BA:1027:C:H5'	1.51	0.92
43:BK:10:LEU:CD1	43:BK:85:ARG:HB2	1.99	0.92
46:BN:54:ARG:HG3	46:BN:54:ARG:HH11	1.33	0.92
2:AA:94:G:H21	22:AW:42:ASN:HD22	1.04	0.92
2:AA:354:G:N3	2:AA:355:G:N7	2.17	0.92
2:AA:404:C:H4'	2:AA:405:U:C5'	1.99	0.92
2:AA:763:G:O2'	2:AA:764:A:H5''	1.70	0.92
2:AA:1014:U:O2'	2:AA:1015:G:H5'	1.68	0.92
2:AA:1035:U:H2'	2:AA:1036:G:C8	2.03	0.92
2:AA:1044:G:C2'	2:AA:1111:A:H2	1.82	0.92
2:AA:1559:G:C4	2:AA:1559:G:H3'	2.04	0.92
2:AA:1690:A:N6	2:AA:1697:G:H21	1.67	0.92
2:AA:1837:C:N4	2:AA:1903:G:H1	1.67	0.92
2:AA:1975:G:O2'	2:AA:1976:U:H5'	1.68	0.92
2:AA:2348:U:H3'	32:A8:42:ARG:NH2	1.84	0.92
2:AA:2690:C:H41	24:A0:14:SER:HB2	1.34	0.92
5:AE:74:GLU:HA	5:AE:293:TYR:CD2	2.05	0.92
8:AH:21:ASN:HD22	8:AH:38:PRO:HD3	1.34	0.92
9:AJ:85:LEU:HD21	11:AL:69:ILE:HD11	1.49	0.92
10:AK:147:GLU:C	10:AK:149:LYS:H	1.69	0.92
22:AW:20:LEU:CD2	22:AW:53:ILE:HG23	1.99	0.92
22:AW:54:ALA:HA	22:AW:57:LYS:HD2	1.51	0.92
23:AX:26:LEU:HB2	23:AX:28:LEU:HD11	1.50	0.92
24:A0:45:ARG:HD3	24:A0:97:VAL:HG23	1.49	0.92
25:A1:44:THR:O	25:A1:47:TYR:HB2	1.69	0.92
29:A5:18:MET:O	29:A5:21:SER:OG	1.86	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:A6:28:ARG:HB2	30:A6:30:ASN:HB2	1.52	0.92
34:BA:599:C:H42	34:BA:639:G:H1	1.04	0.92
34:BA:1286:A:N6	34:BA:1355:G:OP1	2.02	0.92
37:BE:118:LEU:CD1	37:BE:145:LEU:HG	2.00	0.92
37:BE:150:SER:HA	37:BE:153:ARG:HB3	1.51	0.92
38:BF:138:VAL:HG12	38:BF:170:GLN:HE21	1.35	0.92
44:BL:50:LEU:HD11	44:BL:56:LEU:HA	1.50	0.92
46:BN:85:ARG:HE	46:BN:111:ASP:CG	1.78	0.92
53:BU:53:ARG:HH11	53:BU:59:SER:C	1.78	0.92
54:BV:32:LYS:CA	54:BV:50:ALA:HB3	2.00	0.92
2:AA:270(H):C:N3	2:AA:270(R):G:C2	2.38	0.92
2:AA:730:C:O2'	2:AA:731:C:H5'	1.70	0.92
2:AA:806:C:C2	2:AA:807:U:H5	1.87	0.92
2:AA:882:G:H1	2:AA:894:C:H42	1.05	0.92
2:AA:1064:C:H2'	2:AA:1065:U:H6	1.35	0.92
2:AA:1837:C:H42	2:AA:1903:G:H1	0.93	0.92
2:AA:2320:A:N6	16:AQ:9:PRO:HB3	1.85	0.92
3:AC:46:LYS:HE3	3:AC:210:ARG:HD3	1.50	0.92
3:AC:120:MET:SD	3:AC:138:PRO:HB2	2.09	0.92
4:AD:131:LEU:CD1	4:AD:187:CYS:HB2	2.00	0.92
5:AE:231:TRP:O	5:AE:232:ARG:HG3	1.68	0.92
10:AK:6:LEU:HD12	10:AK:35:LEU:HA	1.50	0.92
10:AK:94:THR:HG22	10:AK:97:GLN:CG	1.98	0.92
12:AM:80:LYS:HA	12:AM:83:ILE:HD11	1.52	0.92
16:AQ:34:LEU:HD21	16:AQ:129:ILE:HD11	1.51	0.92
20:AU:66:ASP:N	20:AU:72:ILE:HG12	1.85	0.92
34:BA:19:C:H1'	34:BA:864:A:N3	1.84	0.92
34:BA:489:C:H2'	34:BA:490:G:H8	1.31	0.92
34:BA:579:G:H2'	34:BA:580:U:H5'	1.50	0.92
34:BA:886:G:O2'	34:BA:887:G:H5'	1.69	0.92
34:BA:964:A:C2	34:BA:969:A:H1'	2.04	0.92
34:BA:1435:G:H2'	34:BA:1436:U:C5	2.05	0.92
37:BE:67:THR:HB	37:BE:155:LEU:HD21	1.52	0.92
37:BE:91:PRO:CG	37:BE:155:LEU:H	1.82	0.92
38:BF:31:HIS:O	38:BF:34:LEU:HB3	1.69	0.92
39:BG:25:ARG:C	39:BG:27:TYR:H	1.77	0.92
47:BO:41:ARG:HH12	47:BO:57:LYS:HE3	1.34	0.92
48:BP:23:TYR:HB3	48:BP:67:GLU:HA	1.50	0.92
52:BT:10:VAL:CG1	52:BT:53:LEU:HA	1.98	0.92
1:AB:84:C:N3	1:AB:92:G:N2	2.18	0.92
2:AA:26:G:N1	2:AA:27:G:N2	2.18	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:322:A:O4'	2:AA:341:G:H5'	1.69	0.92
2:AA:755:C:H2'	2:AA:756:C:H6	1.35	0.92
2:AA:860:U:H3	2:AA:917:A:H61	1.17	0.92
2:AA:869:G:H1	2:AA:908:C:N4	1.68	0.92
2:AA:1195:G:N3	2:AA:1226:G:N2	2.17	0.92
2:AA:1365:A:H2'	2:AA:1366:A:C8	2.05	0.92
2:AA:1904:G:O2'	2:AA:1905:C:H5'	1.69	0.92
2:AA:1966:A:C2	2:AA:2593:U:H5'	2.04	0.92
2:AA:2355:C:N3	2:AA:2362:G:N2	2.18	0.92
2:AA:2445:G:H2'	2:AA:2446:G:C8	2.04	0.92
2:AA:2512:C:H4'	5:AE:235:ILE:HD12	1.52	0.92
2:AA:2818:G:H4'	2:AA:2837:G:C4'	1.99	0.92
4:AD:199:ARG:HH11	4:AD:199:ARG:HG3	1.35	0.92
5:AE:42:ALA:HA	5:AE:311:PHE:CZ	2.04	0.92
9:AI:7:ILE:CD1	11:AL:118:ALA:HA	1.99	0.92
12:AM:54:VAL:HG22	12:AM:135:ILE:CD1	1.99	0.92
12:AM:58:GLU:CG	12:AM:139:LEU:HB3	2.00	0.92
20:AU:57:GLY:HA2	20:AU:97:ARG:NH2	1.84	0.92
26:A2:72:ARG:HB2	26:A2:88:GLN:CG	1.99	0.92
34:BA:371:G:N2	34:BA:390:C:N3	2.17	0.92
35:BB:15:G:O2'	35:BB:16:U:H5''	1.70	0.92
35:BB:66:A:C3'	35:BB:67:A:H8	1.81	0.92
40:BH:47:LYS:HD2	40:BH:47:LYS:N	1.84	0.92
43:BK:47:GLY:O	43:BK:61:VAL:HG13	1.69	0.92
48:BP:108:ARG:HH11	48:BP:108:ARG:CA	1.82	0.92
52:BT:5:VAL:HG13	52:BT:59:ILE:O	1.69	0.92
53:BU:31:LEU:HD11	53:BU:62:GLU:OE2	1.70	0.92
53:BU:55:ARG:HH11	53:BU:55:ARG:HA	1.34	0.92
1:AB:9:G:H1	1:AB:111:U:H3	1.09	0.92
2:AA:7:G:H2'	2:AA:8:A:H8	1.33	0.92
2:AA:717:G:C2	2:AA:718:A:H1'	2.05	0.92
2:AA:945:A:N3	2:AA:945:A:H2'	1.84	0.92
2:AA:1012:U:H3'	2:AA:1012:U:C6	2.04	0.92
2:AA:1127:A:C2	2:AA:2518:A:N3	2.38	0.92
2:AA:1152:C:O3'	25:A1:80:ILE:HD13	1.70	0.92
2:AA:1943:U:C2	2:AA:1945:G:H5'	2.03	0.92
2:AA:2052:G:H5'	5:AE:239:GLY:H	1.33	0.92
2:AA:2138:C:H2'	2:AA:2139:C:H6	1.31	0.92
2:AA:2215:G:H2'	2:AA:2216:G:C8	2.04	0.92
2:AA:2684:U:H3	2:AA:2725:A:H61	1.10	0.92
2:AA:2838:G:N2	2:AA:2880:C:N3	2.18	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:210:THR:HA	5:AE:216:ARG:HH22	1.20	0.92
13:AN:64:ARG:HH22	13:AN:100:GLY:HA3	1.12	0.92
20:AU:71:VAL:HG22	20:AU:93:THR:H	1.35	0.92
34:BA:858:G:H22	34:BA:869:G:C2'	1.80	0.92
34:BA:1448:C:H42	34:BA:1455:G:H1	0.96	0.92
35:BB:7:U:C4	35:BB:67:A:N1	2.37	0.92
38:BF:73:PRO:HD3	38:BF:105:GLU:HG3	1.48	0.92
1:AB:11:C:O2	1:AB:109:G:N1	2.02	0.91
2:AA:259:G:H1'	2:AA:621:A:O2'	1.70	0.91
2:AA:429:A:H2'	2:AA:430:G:N7	1.84	0.91
2:AA:449:A:O2'	2:AA:450:G:H5'	1.70	0.91
2:AA:610:C:H42	2:AA:618(A):C:H42	0.98	0.91
2:AA:642:G:H21	2:AA:646:A:H61	0.94	0.91
2:AA:1069:A:H4'	2:AA:1070:A:H5''	1.52	0.91
2:AA:2149:G:C2'	2:AA:2150:U:H5'	1.99	0.91
2:AA:2453:A:O2'	2:AA:2454:G:H5'	1.69	0.91
14:AO:92:ASP:CB	14:AO:118:LEU:HB3	1.97	0.91
22:AW:26:GLU:O	22:AW:29:ASN:HB2	1.68	0.91
34:BA:1165:C:H42	34:BA:1171:G:H1	1.12	0.91
34:BA:1244:C:H42	34:BA:1293:G:H1	1.16	0.91
35:BB:29:A:H61	35:BB:41:U:H3	1.01	0.91
37:BE:70:PHE:O	37:BE:92:TYR:HA	1.70	0.91
37:BE:77:ALA:O	37:BE:80:ILE:HB	1.70	0.91
37:BE:163:PHE:CE2	37:BE:186:ALA:HA	2.05	0.91
39:BG:58:LEU:O	39:BG:58:LEU:HD22	1.70	0.91
47:BO:46:LYS:HG2	47:BO:47:LYS:H	1.35	0.91
2:AA:273(D):C:N3	2:AA:363(B):G:N2	2.18	0.91
2:AA:412:A:C2	2:AA:413:C:H1'	2.04	0.91
2:AA:945:A:N6	2:AA:2448:A:H2	1.68	0.91
2:AA:1426:G:H1'	2:AA:1573:G:N2	1.84	0.91
2:AA:1741:C:O2'	2:AA:1742:C:H5'	1.71	0.91
2:AA:2059:A:C2	2:AA:2503:A:N6	2.38	0.91
2:AA:2083:G:H2'	2:AA:2084:C:H6	1.29	0.91
2:AA:2099:U:H3	2:AA:2190:G:H1	1.10	0.91
2:AA:2316:C:H4'	7:AG:142:ALA:CB	2.01	0.91
2:AA:2521:C:H42	2:AA:2544:G:H1	0.91	0.91
6:AF:5:ILE:HB	6:AF:14:GLY:O	1.71	0.91
8:AH:41:THR:N	8:AH:54:PRO:HG3	1.85	0.91
12:AM:21:ARG:HD2	12:AM:21:ARG:H	1.33	0.91
21:AV:33:ALA:O	21:AV:34:LEU:HD12	1.68	0.91
27:A3:37:LEU:CD1	27:A3:69:PHE:HB2	2.00	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1172:C:H2'	34:BA:1173:G:H8	1.36	0.91
35:BB:7:U:N3	35:BB:67:A:N1	2.19	0.91
35:BB:19:G:O3'	35:BB:20:G:C8	2.23	0.91
35:BB:33:U:C4	35:BB:35:A:P	2.63	0.91
37:BE:169:LYS:NZ	37:BE:170:GLU:HA	1.86	0.91
39:BG:133:VAL:HG11	39:BG:138:TYR:HB2	1.50	0.91
43:BK:6:ILE:HD13	43:BK:7:ALA:N	1.85	0.91
43:BK:98:LYS:N	43:BK:98:LYS:HZ2	1.68	0.91
2:AA:860:U:H3	2:AA:917:A:N6	1.68	0.91
2:AA:955:C:H42	2:AA:962:G:H1	0.92	0.91
2:AA:1135:C:O2'	2:AA:1136:G:H5'	1.71	0.91
2:AA:1173:G:N2	2:AA:1175:U:H5'	1.85	0.91
2:AA:1225:C:OP1	26:A2:87:ARG:HB2	1.69	0.91
2:AA:1788:C:O2'	2:AA:1789:A:H5'	1.69	0.91
2:AA:1864:U:H2'	2:AA:1869:G:H5'	1.52	0.91
2:AA:1966:A:O2'	2:AA:2593:U:OP1	1.87	0.91
2:AA:2023:G:H2'	2:AA:2024:G:C8	2.04	0.91
2:AA:2209:C:H42	2:AA:2215:G:H1	1.09	0.91
2:AA:2373:G:N2	2:AA:2380:C:N3	2.18	0.91
2:AA:2657:A:H62	2:AA:2664:G:H21	0.98	0.91
3:AC:58:VAL:HG22	3:AC:201:PRO:HD3	1.51	0.91
8:AH:146:ASN:O	8:AH:150:VAL:HG23	1.70	0.91
11:AL:79:LEU:HD21	11:AL:137:ILE:HG21	1.53	0.91
12:AM:45:VAL:O	12:AM:132:LEU:HD13	1.71	0.91
21:AV:34:LEU:O	21:AV:35:ASP:HB3	1.70	0.91
21:AV:156:GLU:HG2	21:AV:157:GLY:N	1.84	0.91
24:A0:55:ALA:CB	24:A0:79:LEU:HD21	2.00	0.91
25:A1:93:LYS:HB2	26:A2:10:LYS:HZ2	1.36	0.91
26:A2:3:ALA:O	26:A2:12:TYR:HE2	1.51	0.91
26:A2:61:VAL:HG13	26:A2:96:LEU:C	1.95	0.91
34:BA:130:A:H5''	34:BA:190(F):G:H2'	1.52	0.91
34:BA:265:G:H2'	34:BA:267:C:H5	1.35	0.91
34:BA:862:C:H1'	34:BA:874:G:H5''	1.52	0.91
35:BB:34:G:N3	36:B1:66:G:O6	2.03	0.91
37:BE:54:THR:HG21	37:BE:201:ILE:HD11	1.52	0.91
43:BK:33:GLU:HA	43:BK:36:LEU:HD21	1.50	0.91
44:BL:47:LEU:HD21	44:BL:50:LEU:HD12	1.52	0.91
1:AB:46:A:H2'	1:AB:47:C:H6	1.31	0.91
2:AA:237:C:N3	2:AA:260:G:N2	2.18	0.91
2:AA:481:G:N2	2:AA:507:A:H1'	1.85	0.91
2:AA:802:A:H2'	2:AA:803:U:H6	1.34	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:983:A:H3'	2:AA:984:A:O4'	1.70	0.91
2:AA:1438:U:H2'	2:AA:1439:A:C5'	1.99	0.91
2:AA:1782:C:H5''	2:AA:1783:A:OP2	1.68	0.91
2:AA:2507:C:N4	2:AA:2582:G:N1	2.18	0.91
2:AA:2553:G:N2	2:AA:2583:G:O2'	2.03	0.91
2:AA:2671:A:H2'	2:AA:2672:G:C8	2.04	0.91
6:AF:164:ALA:O	6:AF:167:ASP:HB2	1.71	0.91
7:AG:151:ILE:HD13	7:AG:156:ARG:NH2	1.85	0.91
8:AH:102:LEU:HD12	8:AH:104:LEU:HD11	1.52	0.91
18:AS:88:ARG:HB3	18:AS:91:GLY:C	1.95	0.91
26:A2:28:GLU:O	26:A2:30:GLY:N	2.02	0.91
34:BA:193:C:H2'	34:BA:194:C:H6	1.35	0.91
34:BA:1007:C:N3	34:BA:1022:G:N2	2.17	0.91
34:BA:1261:A:N6	34:BA:1274:G:H1'	1.86	0.91
35:BB:29:A:N6	35:BB:41:U:H3	1.67	0.91
39:BG:180:GLY:C	39:BG:182:LYS:HG2	1.95	0.91
40:BH:28:PHE:HD1	40:BH:28:PHE:N	1.66	0.91
43:BK:109:ILE:HG12	43:BK:137:VAL:O	1.70	0.91
44:BL:97:LYS:NZ	44:BL:102:LEU:HD11	1.86	0.91
48:BP:74:VAL:HG12	48:BP:78:ILE:CD1	2.00	0.91
2:AA:285:C:H42	2:AA:354:G:H22	1.16	0.91
2:AA:291:C:N3	2:AA:349:G:C2	2.39	0.91
2:AA:1361:G:H2'	2:AA:1362:C:H6	1.32	0.91
2:AA:1810:A:H2'	2:AA:1811:G:C5'	1.99	0.91
2:AA:2329:G:H2'	2:AA:2330:G:H8	1.35	0.91
2:AA:2785:C:C4'	5:AE:99:VAL:HA	1.99	0.91
2:AA:2853:C:O2'	2:AA:2854:G:H5'	1.70	0.91
3:AC:123:VAL:HG11	3:AC:138:PRO:HD2	1.53	0.91
5:AE:216:ARG:HH11	5:AE:253:GLN:CB	1.83	0.91
6:AF:83:ALA:N	6:AF:87:ARG:CZ	2.33	0.91
19:AT:22:ASN:HA	19:AT:68:LEU:CD1	2.00	0.91
34:BA:1048:G:N2	34:BA:1209:C:N3	2.17	0.91
34:BA:1192:C:H3'	34:BA:1192:C:C6	2.04	0.91
34:BA:1500:A:OP1	34:BA:1508:G:OP1	1.87	0.91
35:BC:34:G:H1	36:B1:62:G:H1	1.15	0.91
37:BE:53:ARG:NE	37:BE:199:TYR:HE2	1.66	0.91
37:BE:55:PHE:HA	37:BE:58:ILE:CD1	2.00	0.91
44:BL:48:GLU:HA	44:BL:51:ARG:HE	1.35	0.91
47:BO:41:ARG:HH12	47:BO:57:LYS:CE	1.83	0.91
48:BP:39:ILE:HG23	48:BP:55:ARG:HH22	1.35	0.91
49:BQ:42:ILE:O	49:BQ:46:GLU:HG3	1.71	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:503:A:C4	2:AA:505:A:N7	2.39	0.91
2:AA:563:G:H21	25:A1:37:GLN:NE2	1.69	0.91
2:AA:1687:G:N2	2:AA:1701:A:N7	2.17	0.91
2:AA:1810:A:C2'	2:AA:1811:G:H5'	2.00	0.91
2:AA:2093:G:H4'	10:AK:29:PHE:HE1	1.36	0.91
2:AA:2231:C:OP1	28:A4:39:VAL:HA	1.69	0.91
2:AA:2250:G:C5'	15:AP:102:ARG:HB3	1.99	0.91
2:AA:2323:G:H2'	2:AA:2324:C:C6	2.06	0.91
2:AA:2358:G:H2'	2:AA:2358:G:N3	1.86	0.91
2:AA:2749:A:C1'	8:AH:62:ALA:HB2	2.00	0.91
8:AH:34:ARG:HB3	8:AH:74:MET:HE3	1.50	0.91
10:AK:6:LEU:HB3	10:AK:35:LEU:C	1.94	0.91
12:AM:84:ARG:HA	12:AM:87:LEU:HD13	1.53	0.91
13:AN:11:ALA:C	13:AN:99:PHE:HB2	1.94	0.91
25:A1:69:ALA:HB3	25:A1:76:TYR:OH	1.70	0.91
30:A6:18:THR:C	30:A6:20:PHE:H	1.76	0.91
34:BA:576:G:N7	34:BA:881:G:H1'	1.85	0.91
35:BC:15:G:H22	35:BC:48:C:H42	1.13	0.91
35:BC:37:G:C2'	35:BC:38:A:H8	1.81	0.91
1:AB:37:C:O2	16:AQ:111:PRO:HG2	1.67	0.91
2:AA:218:A:H3'	2:AA:219:G:H8	1.36	0.91
2:AA:285:C:H2'	2:AA:286:C:C2	2.05	0.91
2:AA:399:G:H2'	2:AA:400:G:H5'	1.51	0.91
2:AA:997:G:C5'	25:A1:92:ARG:HD2	1.97	0.91
2:AA:1492:G:N2	2:AA:1499:C:N4	2.19	0.91
2:AA:1655:A:C5'	5:AE:211:GLN:HA	1.99	0.91
2:AA:1741:C:C2'	2:AA:1742:C:H5'	2.01	0.91
5:AE:216:ARG:HH21	5:AE:255:GLN:HA	1.35	0.91
8:AH:67:THR:HG22	8:AH:71:LEU:CD1	2.00	0.91
14:AO:94:ARG:HB2	14:AO:120:LEU:HD13	1.53	0.91
15:AP:86:ARG:CZ	15:AP:123:ILE:HD11	2.01	0.91
24:A0:63:ARG:NH2	24:A0:77:ARG:HG2	1.86	0.91
29:A5:40:LYS:HZ2	29:A5:49:CYS:HB2	1.22	0.91
34:BA:110:C:H2'	34:BA:111:G:O4'	1.71	0.91
34:BA:329:A:H4'	34:BA:330:C:OP1	1.68	0.91
34:BA:737:A:OP1	41:BI:91:VAL:HA	1.70	0.91
34:BA:1363:A:H5''	34:BA:1364:U:OP1	1.70	0.91
35:BB:53:G:C4	35:BB:54:U:C5	2.58	0.91
37:BE:15:VAL:HG22	37:BE:209:ARG:HD2	1.51	0.91
37:BE:115:LEU:HD22	37:BE:149:LEU:HD13	1.53	0.91
38:BF:88:ARG:CZ	38:BF:101:LEU:H	1.83	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:60:GLU:HA	39:BG:63:LYS:HD2	0.95	0.91
40:BH:100:VAL:HG11	40:BH:107:ARG:HG3	1.51	0.91
41:BI:97:PHE:CE2	53:BU:31:LEU:HD12	2.05	0.91
43:BK:93:VAL:O	43:BK:133:LEU:HG	1.70	0.91
44:BL:113:LYS:HZ3	44:BL:119:ALA:HB1	1.33	0.91
46:BN:62:GLN:CD	46:BN:63:LEU:N	2.29	0.91
46:BN:95:ILE:HG21	46:BN:108:ILE:HD11	1.53	0.91
1:AB:116:G:H4'	16:AQ:64:SER:OG	1.71	0.91
2:AA:363(C):G:H2'	2:AA:363(D):G:H5'	1.53	0.91
2:AA:870:A:H61	2:AA:907:U:H3	0.92	0.91
2:AA:1021:A:N3	2:AA:1122:G:O3'	2.03	0.91
2:AA:1567:A:C2	4:AD:84:PRO:HD3	2.04	0.91
2:AA:1940:U:H5'	2:AA:1941:C:OP1	1.71	0.91
2:AA:2283:C:N3	2:AA:2284:C:H1'	1.85	0.91
2:AA:2576:G:H5''	2:AA:2577:A:OP1	1.70	0.91
2:AA:2646:C:O2'	2:AA:2647:U:H5'	1.71	0.91
4:AD:104:ILE:C	4:AD:106:PRO:HD2	1.95	0.91
6:AF:205:ARG:HG2	6:AF:212:VAL:CG2	2.01	0.91
10:AK:124:LEU:CG	10:AK:146:THR:HA	2.00	0.91
13:AN:107:ARG:HG2	13:AN:115:ILE:HD13	1.51	0.91
13:AN:120:GLU:HG2	13:AN:122:ILE:HD11	1.51	0.91
14:AO:113:GLN:HB2	14:AO:115:ARG:CZ	1.99	0.91
27:A3:61:ALA:O	27:A3:62:LEU:HD12	1.70	0.91
34:BA:13:U:H6	34:BA:13:U:H5''	1.34	0.91
34:BA:373:A:O2'	34:BA:374:A:H5'	1.70	0.91
35:BC:55:U:N3	35:BC:58:A:OP2	2.03	0.91
37:BE:48:MET:SD	37:BE:48:MET:N	2.44	0.91
53:BU:56:THR:HB	53:BU:58:LEU:CG	2.00	0.91
2:AA:10:G:N2	2:AA:2629:A:C2	2.39	0.91
2:AA:535:C:C4'	25:A1:53:LYS:HE2	2.01	0.91
2:AA:791:C:O2	2:AA:793:A:O2'	1.87	0.91
2:AA:994:C:O2	25:A1:53:LYS:HB3	1.71	0.91
2:AA:1155:A:C2'	2:AA:1156:A:H5''	2.00	0.91
2:AA:1786:A:N1	2:AA:1938:A:C6	2.38	0.91
2:AA:1818:U:H3'	4:AD:155:ARG:CG	2.01	0.91
2:AA:1937:A:C3'	2:AA:1938:A:H5''	2.01	0.91
2:AA:2041:U:H2'	2:AA:2042:A:H5'	1.49	0.91
2:AA:2123:G:O2'	3:AC:172:HIS:NE2	2.04	0.91
2:AA:2818:G:O2'	2:AA:2837:G:H5'	1.69	0.91
4:AD:143:ILE:O	4:AD:152:GLN:HB2	1.70	0.91
5:AE:74:GLU:CA	5:AE:293:TYR:CE2	2.54	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:116:LEU:HD21	11:AL:127:ILE:HD13	1.52	0.91
13:AN:61:VAL:O	13:AN:84:CYS:HB3	1.71	0.91
24:A0:61:HIS:CA	24:A0:64:ARG:HD3	2.00	0.91
26:A2:62:GLU:HB2	26:A2:96:LEU:HD21	1.52	0.91
28:A4:17:GLN:HG2	28:A4:33:VAL:C	1.96	0.91
32:A8:12:ARG:HH11	32:A8:13:ARG:NH1	1.68	0.91
34:BA:597:G:H21	43:BK:94:TYR:HE2	0.91	0.91
34:BA:834:C:H2'	34:BA:835:U:H6	1.36	0.91
36:B1:59:A:H2'	36:B1:60:A:H5'	1.50	0.91
37:BE:132:LYS:N	37:BE:132:LYS:HE2	1.86	0.91
39:BG:170:VAL:HG12	39:BG:171:GLY:H	1.33	0.91
43:BK:120:THR:H	43:BK:123:GLU:CD	1.78	0.91
46:BN:110:ASP:HB2	53:BU:88:LYS:CG	2.00	0.91
51:BS:6:LEU:HB2	51:BS:17:TYR:HB3	1.52	0.91
2:AA:1906:G:H2'	2:AA:1907:G:H8	1.34	0.91
2:AA:2316:C:OP1	7:AG:143:LYS:HG3	1.71	0.91
2:AA:2559:C:O2'	2:AA:2560:C:H5'	1.71	0.91
14:AO:66:VAL:HG12	14:AO:67:ARG:N	1.83	0.91
14:AO:81:VAL:HG13	14:AO:116:HIS:NE2	1.85	0.91
15:AP:66:ASN:CB	15:AP:70:ARG:HH21	1.82	0.91
18:AS:40:ASN:ND2	18:AS:41:LYS:HD2	1.86	0.91
34:BA:193:C:H2'	34:BA:194:C:C6	2.06	0.91
34:BA:334:C:H2'	34:BA:335:C:C6	2.05	0.91
34:BA:909:A:H2'	34:BA:910:C:C5'	2.00	0.91
35:BB:9:A:C2	35:BB:45:G:C6	2.58	0.91
37:BE:14:GLY:HA3	37:BE:209:ARG:HH22	1.23	0.91
37:BE:130:ARG:HD3	37:BE:131:PRO:HD2	1.53	0.91
54:BV:63:THR:O	54:BV:66:MET:HG2	1.71	0.91
55:BW:75:ASN:O	55:BW:78:ALA:HB3	1.70	0.91
2:AA:138:G:O2'	2:AA:140:A:H5'	1.71	0.90
2:AA:139:G:H3'	2:AA:141(A):C:O2	1.72	0.90
2:AA:270(C):C:N3	2:AA:270(W):G:N2	2.19	0.90
2:AA:270(C):C:N4	2:AA:270(W):G:H1	1.67	0.90
2:AA:607:U:O4	2:AA:621:A:N1	2.02	0.90
2:AA:791:C:O2'	2:AA:792:G:C5'	2.18	0.90
2:AA:1058:G:H4'	9:AI:2:THR:CA	2.01	0.90
2:AA:1264:G:H3'	2:AA:1265:A:C5'	2.01	0.90
2:AA:1356:G:H2'	2:AA:1357:U:H6	1.35	0.90
2:AA:1535:U:H5''	2:AA:1536:A:O5'	1.71	0.90
2:AA:1707:G:H1	2:AA:1751:C:H42	1.13	0.90
2:AA:1826:G:H2'	2:AA:1827:C:H5'	1.51	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1956:U:H2'	2:AA:1956:U:O2	1.71	0.90
2:AA:1966:A:N3	2:AA:2593:U:C5'	2.33	0.90
8:AH:151:ARG:H	8:AH:161:ILE:HD11	1.35	0.90
10:AK:141:LEU:HD22	10:AK:142:LYS:H	1.35	0.90
10:AK:147:GLU:C	10:AK:149:LYS:N	2.23	0.90
24:A0:60:LEU:HD23	24:A0:60:LEU:H	1.36	0.90
31:A7:25:LYS:CA	31:A7:25:LYS:HE2	2.01	0.90
34:BA:888:G:H21	34:BA:909:A:H62	1.01	0.90
34:BA:1229:A:OP1	48:BP:116:THR:HG22	1.69	0.90
34:BA:1330:U:H4'	48:BP:23:TYR:CZ	2.05	0.90
35:BB:42:G:H5''	35:BB:43:G:P	2.11	0.90
35:BC:74:C:C3'	35:BC:75:C:H5''	2.01	0.90
50:BR:77:ARG:HB3	50:BR:77:ARG:NH1	1.85	0.90
2:AA:270(C):C:C2	2:AA:270(W):G:N2	2.38	0.90
2:AA:270(X):G:C6	2:AA:270(Y):G:H1'	2.07	0.90
2:AA:771:G:H2'	2:AA:772:C:C6	2.05	0.90
2:AA:893:C:H2'	2:AA:894:C:H6	1.35	0.90
2:AA:1020:A:H1'	12:AM:49:ARG:CZ	2.01	0.90
2:AA:1105:U:O2'	9:AI:27:ASP:O	1.89	0.90
2:AA:1131:G:H4'	2:AA:1132:A:OP1	1.69	0.90
2:AA:1800:C:H3'	2:AA:1800:C:C6	2.06	0.90
2:AA:1928:A:H5'	2:AA:1929:G:OP2	1.70	0.90
2:AA:2031:A:H62	2:AA:2498:C:H1'	1.35	0.90
2:AA:2093:G:N2	2:AA:2197:U:O2	2.03	0.90
2:AA:2250:G:H5''	15:AP:102:ARG:CB	2.01	0.90
2:AA:2532:G:N2	2:AA:2662:A:N1	2.18	0.90
2:AA:2619:C:O2'	2:AA:2620:C:C5'	2.18	0.90
3:AC:59:ARG:HD2	3:AC:164:ARG:HD2	1.51	0.90
6:AF:240:LEU:O	6:AF:243:VAL:CB	2.17	0.90
15:AP:68:ALA:HB2	15:AP:139:ALA:CB	2.01	0.90
19:AT:57:THR:HB	19:AT:59:ASP:OD2	1.70	0.90
21:AV:19:ILE:H	21:AV:36:ARG:HG3	1.35	0.90
23:AX:45:GLY:HA2	23:AX:48:GLU:OE2	1.70	0.90
25:A1:93:LYS:H	26:A2:10:LYS:HZ3	1.19	0.90
34:BA:605:U:H2'	34:BA:606:G:C8	2.05	0.90
34:BA:1133:G:H1	34:BA:1141:C:N4	1.69	0.90
35:BB:34:G:H2'	35:BB:35:A:H5''	0.93	0.90
35:BB:67:A:C2	35:BB:68:U:C5	2.58	0.90
37:BE:27:LYS:HB3	37:BE:194:PRO:HG2	1.50	0.90
47:BO:72:GLY:HA3	47:BO:102:ARG:NH1	1.87	0.90
1:AB:49:C:H2'	1:AB:50:G:H8	1.34	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:292:C:H3'	2:AA:293:U:C4	2.06	0.90
2:AA:373:U:C2	2:AA:400:G:N2	2.39	0.90
2:AA:627:A:N6	2:AA:636:G:O2'	2.05	0.90
2:AA:1426:G:H1'	2:AA:1573:G:H22	1.35	0.90
2:AA:2429:G:H5''	2:AA:2430:A:OP2	1.72	0.90
2:AA:2727:G:H4'	13:AN:70:ARG:NH2	1.87	0.90
2:AA:2821:A:OP2	2:AA:2821:A:H3'	1.69	0.90
2:AA:2850:A:N3	2:AA:2869:G:H4'	1.85	0.90
5:AE:45:LYS:HZ3	5:AE:301:PRO:CG	1.78	0.90
5:AE:222:ARG:HH11	5:AE:222:ARG:CG	1.81	0.90
7:AG:22:VAL:HB	7:AG:24:HIS:CE1	2.06	0.90
10:AK:141:LEU:HD13	10:AK:141:LEU:C	1.96	0.90
11:AL:79:LEU:HD22	11:AL:137:ILE:HD13	1.50	0.90
13:AN:1:MET:N	13:AN:32:TYR:CD2	2.36	0.90
14:AO:94:ARG:HD3	14:AO:120:LEU:HD22	1.51	0.90
17:AR:10:GLY:N	17:AR:52:THR:HB	1.85	0.90
18:AS:40:ASN:HD22	18:AS:41:LYS:CD	1.83	0.90
34:BA:113:G:H1'	34:BA:354:G:H5''	1.52	0.90
34:BA:410:G:N3	34:BA:432:A:N6	2.19	0.90
34:BA:1068:G:N7	34:BA:1094:G:C8	2.39	0.90
34:BA:1139:G:H1	34:BA:1143:G:H22	0.92	0.90
34:BA:1144:G:N2	34:BA:1146:A:H62	1.67	0.90
36:B1:21:U:O2	36:B1:33:G:O6	1.88	0.90
40:BH:151:LEU:HD21	43:BK:67:PRO:HD3	1.52	0.90
41:BI:100:ASN:ND2	53:BU:23:LYS:HG2	1.86	0.90
43:BK:40:ALA:N	43:BK:45:ILE:HG23	1.84	0.90
50:BR:38:ARG:HH11	50:BR:38:ARG:CB	1.80	0.90
51:BS:20:VAL:HG11	51:BS:32:TYR:CB	2.02	0.90
52:BT:81:ARG:HG2	52:BT:84:LEU:HD11	1.53	0.90
2:AA:93:C:H2'	2:AA:94:G:C8	2.05	0.90
2:AA:641:C:H2'	2:AA:642:G:O4'	1.71	0.90
2:AA:663:G:N2	2:AA:940:G:OP1	2.04	0.90
2:AA:783:A:H4'	2:AA:2588:G:O3'	1.71	0.90
2:AA:815:C:C2'	2:AA:816:C:H5'	2.02	0.90
2:AA:1020:A:H4'	12:AM:49:ARG:NH1	1.85	0.90
2:AA:1351:C:H2'	2:AA:1352:U:H6	1.34	0.90
2:AA:2009:G:H4'	18:AS:40:ASN:HD21	1.37	0.90
2:AA:2209:C:C4'	4:AD:149:ARG:HH21	1.84	0.90
2:AA:2227:A:N1	2:AA:2228:G:C6	2.40	0.90
2:AA:2391:G:H2'	2:AA:2392:A:OP2	1.72	0.90
2:AA:2495:G:H4'	15:AP:101:MET:CB	2.02	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:39:GLN:OE1	5:AE:174:LEU:HD21	1.72	0.90
9:AI:63:LEU:HD11	9:AI:102:ILE:HD12	1.51	0.90
15:AP:125:TRP:O	15:AP:126:VAL:HG23	1.70	0.90
16:AQ:23:ARG:O	16:AQ:33:ARG:NH1	2.05	0.90
18:AS:66:GLU:O	18:AS:69:LEU:HG	1.72	0.90
28:A4:56:VAL:HG12	28:A4:57:ASP:N	1.75	0.90
32:A8:23:MET:HE1	32:A8:48:PHE:HB2	1.54	0.90
34:BA:118:U:H3	34:BA:289:G:H4'	1.36	0.90
37:BE:16:HIS:CE1	37:BE:213:LEU:HD13	2.06	0.90
41:BI:82:ARG:O	41:BI:85:VAL:HG23	1.71	0.90
43:BK:61:VAL:HG12	43:BK:62:TYR:H	1.36	0.90
51:BS:14:ASN:HA	51:BS:42:ARG:NH2	1.86	0.90
55:BW:63:ILE:HG23	55:BW:77:ALA:HB1	1.51	0.90
2:AA:296:C:C2	2:AA:344:G:N2	2.39	0.90
2:AA:774:A:H5''	2:AA:778:G:H4'	1.52	0.90
2:AA:882:G:H2'	2:AA:883:G:H8	1.36	0.90
2:AA:1064:C:H2'	2:AA:1065:U:C6	2.07	0.90
2:AA:1087:G:H21	2:AA:1103:A:C2'	1.84	0.90
2:AA:1530:G:O6	2:AA:1541:U:C2	2.24	0.90
2:AA:1669:A:H8	13:AN:4:GLN:OE1	1.53	0.90
2:AA:2832:U:H1'	2:AA:2834:G:H21	1.36	0.90
9:AJ:71:ILE:HG23	11:AL:61:TYR:CD1	2.07	0.90
10:AK:12:LYS:CE	10:AK:14:LYS:HE3	2.01	0.90
10:AK:141:LEU:HD22	10:AK:142:LYS:N	1.87	0.90
13:AN:64:ARG:NH2	13:AN:100:GLY:CA	2.29	0.90
15:AP:34:GLY:HA2	15:AP:74:ASN:O	1.71	0.90
16:AQ:60:SER:O	16:AQ:88:ALA:HA	1.72	0.90
23:AX:43:ILE:H	23:AX:43:ILE:CD1	1.82	0.90
25:A1:91:ASN:HD21	26:A2:10:LYS:HE2	1.37	0.90
34:BA:911:U:H2'	34:BA:912:C:H6	1.34	0.90
34:BA:991:U:O2'	34:BA:993:G:H1'	1.71	0.90
34:BA:1225:A:H5'	54:BV:78:ARG:NH1	1.86	0.90
34:BA:1310:G:H2'	34:BA:1311:G:H8	1.36	0.90
35:BC:47:U:C5	35:BC:49:C:H5''	2.07	0.90
42:BJ:107:ALA:HB1	42:BJ:123:GLU:OE1	1.70	0.90
1:AB:52:A:C2	1:AB:53:A:H1'	2.06	0.90
2:AA:531:C:H5'	2:AA:532:A:C2	2.05	0.90
2:AA:861:A:N6	2:AA:916:G:H21	1.68	0.90
2:AA:2841:C:H2'	2:AA:2842:G:H8	1.26	0.90
3:AC:26:ALA:HB1	3:AC:185:LEU:HD13	1.52	0.90
3:AC:70:LYS:HG2	3:AC:157:LYS:NZ	1.86	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:222:ARG:HH22	5:AE:234:ARG:HB2	1.36	0.90
5:AE:225:LYS:C	5:AE:226:HIS:ND1	2.29	0.90
9:AI:22:VAL:HG13	9:AI:38:ALA:HB1	1.54	0.90
13:AN:8:LEU:N	13:AN:8:LEU:HD23	1.86	0.90
13:AN:52:VAL:O	13:AN:56:GLN:HG3	1.71	0.90
20:AU:42:VAL:HG12	20:AU:43:ASN:N	1.85	0.90
26:A2:3:ALA:HB2	26:A2:44:GLN:OE1	1.70	0.90
28:A4:68:ARG:CG	28:A4:72:LYS:HG2	2.01	0.90
29:A5:15:LYS:CA	29:A5:18:MET:HG2	2.01	0.90
34:BA:157:G:H1	34:BA:164:U:H3	0.97	0.90
34:BA:1263:C:N4	34:BA:1272:G:H1	1.69	0.90
35:BB:60:C:OP2	35:BB:61:C:C6	2.24	0.90
42:BJ:111:ARG:HB3	42:BJ:111:ARG:HH11	1.36	0.90
43:BK:126:LYS:HZ2	43:BK:127:LEU:HB2	1.36	0.90
45:BM:22:LYS:NZ	45:BM:90:LEU:HB2	1.86	0.90
48:BP:110:ARG:HB2	48:BP:110:ARG:HH11	1.36	0.90
2:AA:71:A:H4'	2:AA:72:U:H3'	1.51	0.90
2:AA:528:A:H3'	2:AA:528:A:C8	2.06	0.90
2:AA:574:C:H41	2:AA:2054:A:C5'	1.84	0.90
2:AA:595:C:H42	2:AA:662:G:H1	1.16	0.90
2:AA:1026:U:H5'	2:AA:1026:U:C6	2.06	0.90
2:AA:1058:G:O2'	2:AA:1059:G:H5'	1.71	0.90
2:AA:1069:A:C4'	2:AA:1070:A:H5''	2.02	0.90
2:AA:1267:U:H5	2:AA:2012:G:N2	1.69	0.90
2:AA:1558:A:C2	2:AA:1560:G:H1'	2.06	0.90
2:AA:1718:G:C2	2:AA:1741:C:N3	2.39	0.90
2:AA:1907:G:N2	2:AA:1923:U:O2	2.04	0.90
2:AA:2019:A:H2'	2:AA:2020:A:O4'	1.72	0.90
2:AA:2579:C:H2'	2:AA:2580:U:H5'	1.52	0.90
2:AA:2640:G:H1	2:AA:2774:C:N4	1.70	0.90
2:AA:2662:A:H2'	2:AA:2663:G:H5'	1.51	0.90
3:AC:39:GLU:HG2	3:AC:216:THR:CB	2.01	0.90
3:AC:182:PRO:HA	3:AC:185:LEU:HD12	1.54	0.90
6:AF:35:VAL:C	6:AF:39:GLN:HE22	1.79	0.90
16:AQ:27:LEU:H	16:AQ:33:ARG:HH12	1.10	0.90
26:A2:67:LYS:HG2	26:A2:70:TYR:HE1	1.35	0.90
34:BA:1001:A:H2	34:BA:1040:U:H3	1.19	0.90
34:BA:1089:G:H1	34:BA:1096:C:H42	1.12	0.90
34:BA:1163:C:N3	34:BA:1173:G:N2	2.20	0.90
35:BC:34:G:C3'	35:BC:35:A:H5''	2.02	0.90
37:BE:180:LEU:O	37:BE:181:PHE:HB2	1.72	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:142:MET:HA	38:BF:146:ALA:HB3	1.53	0.90
39:BG:141:ARG:HB3	39:BG:142:PRO:CD	1.96	0.90
40:BH:78:HIS:CG	43:BK:107:LEU:HD11	2.06	0.90
42:BJ:114:ARG:HG2	42:BJ:114:ARG:HH11	1.37	0.90
46:BN:16:SER:O	46:BN:35:PRO:HG3	1.70	0.90
47:BO:46:LYS:HE3	47:BO:47:LYS:HE3	1.53	0.90
47:BO:60:LEU:HD13	47:BO:60:LEU:N	1.84	0.90
51:BS:58:TYR:HD1	51:BS:59:TRP:N	1.69	0.90
51:BS:67:THR:HB	51:BS:70:ALA:HB2	1.52	0.90
2:AA:270(H):C:N3	2:AA:270(R):G:N2	2.19	0.90
2:AA:775:G:H2'	2:AA:794:G:C5	2.07	0.90
2:AA:775:G:N2	2:AA:787:U:O3'	2.05	0.90
2:AA:886:C:H4'	2:AA:887:A:O5'	1.68	0.90
2:AA:919:G:H2'	2:AA:920:G:H8	1.30	0.90
2:AA:1579:A:H2'	2:AA:1580:A:O4'	1.71	0.90
2:AA:2345:G:N7	2:AA:2371:G:N2	2.18	0.90
2:AA:2640:G:HO2'	12:AM:70:PHE:HE2	0.93	0.90
2:AA:2699:C:N4	2:AA:2708:G:H1	1.70	0.90
12:AM:60:ARG:HA	12:AM:71:TYR:CD2	2.06	0.90
13:AN:47:THR:HB	13:AN:48:PRO:HD2	1.54	0.90
14:AO:55:GLN:HG3	14:AO:56:LYS:H	1.35	0.90
16:AQ:27:LEU:H	16:AQ:33:ARG:NH1	1.68	0.90
18:AS:13:SER:O	18:AS:17:VAL:HG23	1.71	0.90
18:AS:34:ASN:ND2	29:A5:39:LYS:HB2	1.86	0.90
21:AV:154:LEU:HD13	21:AV:160:LEU:HD11	1.54	0.90
22:AW:52:ALA:O	22:AW:56:ILE:HG13	1.72	0.90
23:AX:53:LEU:O	23:AX:53:LEU:HD23	1.71	0.90
27:A3:46:LYS:HE2	27:A3:58:THR:O	1.72	0.90
28:A4:13:LYS:O	28:A4:14:ILE:HB	1.72	0.90
32:A8:52:LYS:O	32:A8:54:GLU:N	2.03	0.90
33:A9:7:VAL:HG13	33:A9:34:GLN:OE1	1.72	0.90
34:BA:112:G:C5'	34:BA:389:A:H4'	2.01	0.90
34:BA:1222:G:OP1	54:BV:77:THR:HG21	1.71	0.90
37:BE:82:ARG:HB3	37:BE:83:MET:HE2	1.54	0.90
37:BE:131:PRO:HG2	37:BE:134:GLU:HG2	1.51	0.90
37:BE:184:VAL:O	37:BE:198:ASP:HB2	1.71	0.90
39:BG:25:ARG:HE	39:BG:30:LYS:HD3	1.36	0.90
39:BG:64:LEU:HA	39:BG:67:ILE:CD1	2.01	0.90
40:BH:59:GLY:C	40:BH:63:ARG:HH21	1.80	0.90
46:BN:61:ALA:HB1	46:BN:94:ALA:CB	2.00	0.90
2:AA:783:A:C2'	2:AA:784:A:H4'	2.02	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:959:A:C6	2:AA:960:A:N6	2.39	0.90
2:AA:1818:U:H3'	4:AD:155:ARG:HG2	1.53	0.90
2:AA:1941:C:N4	2:AA:1965:C:H1'	1.86	0.90
2:AA:2089:U:H3	2:AA:2231:C:H42	0.93	0.90
2:AA:2139:C:N3	2:AA:2152:G:O6	2.05	0.90
2:AA:2484:G:H2'	2:AA:2485:G:H5'	1.52	0.90
3:AC:36:LYS:HG3	3:AC:37:PHE:HD2	1.34	0.90
5:AE:267:ARG:O	5:AE:297:LYS:HG3	1.72	0.90
16:AQ:81:ALA:HB3	16:AQ:117:ALA:HB1	1.52	0.90
19:AT:34:LYS:NZ	19:AT:52:VAL:HG12	1.87	0.90
26:A2:6:GLN:CD	26:A2:10:LYS:HA	1.96	0.90
34:BA:559:A:H4'	34:BA:560:U:H5''	1.50	0.90
35:BB:1:G:O6	35:BB:73:A:C6	2.22	0.90
35:BB:60:C:OP2	35:BB:61:C:H5	1.55	0.90
37:BE:56:ARG:HB3	37:BE:56:ARG:HH11	1.33	0.90
38:BF:30:ARG:HG2	38:BF:30:ARG:HH11	1.37	0.90
38:BF:84:ILE:CG1	38:BF:101:LEU:HD22	2.02	0.90
41:BI:50:TYR:HE2	41:BI:52:ILE:HD11	1.36	0.90
42:BJ:94:ARG:HH11	42:BJ:94:ARG:C	1.78	0.90
46:BN:79:SER:CA	46:BN:104:GLN:HB3	1.99	0.90
53:BU:45:SER:HB3	53:BU:51:LEU:HD11	1.53	0.90
2:AA:20:C:O2'	2:AA:21:A:H5'	1.71	0.90
2:AA:468:G:H2'	2:AA:469:G:O4'	1.71	0.90
2:AA:484:C:H2'	2:AA:485:C:H6	1.06	0.90
2:AA:1275:A:C2	24:A0:16:HIS:HB3	2.06	0.90
2:AA:2110:G:C8	2:AA:2120:G:OP2	2.24	0.90
2:AA:2334:G:H1	16:AQ:10:MET:CE	1.85	0.90
2:AA:2491:U:H5'	2:AA:2570:G:C5'	2.01	0.90
2:AA:2574:G:H1'	5:AE:240:PRO:HB3	1.53	0.90
2:AA:2581:G:O6	2:AA:2610:C:C2'	2.19	0.90
5:AE:263:GLU:N	5:AE:266:LYS:HZ1	1.69	0.90
8:AH:34:ARG:HD2	8:AH:36:PHE:CE1	2.07	0.90
16:AQ:19:ASP:HB2	16:AQ:22:GLN:HE21	1.28	0.90
17:AR:50:GLU:HA	17:AR:55:ALA:CB	2.02	0.90
18:AS:72:LYS:HB3	18:AS:106:ILE:HG21	1.51	0.90
19:AT:24:LEU:HB2	19:AT:26:PHE:HZ	1.29	0.90
26:A2:74:TYR:CZ	26:A2:88:GLN:HA	2.06	0.90
34:BA:582:U:H3	34:BA:759:A:N6	1.70	0.90
34:BA:1127:G:H1'	34:BA:1148:U:H3	1.34	0.90
39:BG:170:VAL:HG21	39:BG:176:LEU:HB3	1.54	0.90
52:BT:85:VAL:O	52:BT:89:LEU:HG	1.71	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:58:LEU:HB2	53:BU:63:GLN:HE22	1.37	0.90
1:AB:89:G:H2'	1:AB:89(A):A:N7	1.85	0.89
2:AA:195:A:OP2	2:AA:196:A:H4'	1.71	0.89
2:AA:845:G:H5''	2:AA:846:C:OP1	1.72	0.89
2:AA:917:A:H2'	2:AA:918:A:C4'	2.02	0.89
2:AA:986:C:H3'	2:AA:986:C:C6	2.07	0.89
2:AA:2016:U:H2'	2:AA:2017:U:O4'	1.70	0.89
5:AE:102:ASP:HA	5:AE:104:PHE:CE2	2.07	0.89
12:AM:39:VAL:HB	12:AM:106:GLY:O	1.71	0.89
12:AM:84:ARG:HB3	12:AM:98:PHE:HE2	1.35	0.89
15:AP:56:ILE:O	15:AP:112:ALA:HB1	1.71	0.89
20:AU:46:ASP:HA	20:AU:102:ASP:CG	1.98	0.89
24:A0:100:LEU:HD21	24:A0:113:LEU:HB2	1.52	0.89
34:BA:675:A:H1'	46:BN:116:HIS:ND1	1.87	0.89
34:BA:1259:C:H42	34:BA:1276:G:H1	1.17	0.89
34:BA:1316:G:H8	34:BA:1316:G:OP2	1.55	0.89
38:BF:12:LEU:HD22	38:BF:17:ASP:HA	1.53	0.89
55:BW:13:LEU:H	55:BW:13:LEU:CD1	1.85	0.89
2:AA:350:U:H2'	2:AA:350:U:O2	1.71	0.89
2:AA:470:A:C2	2:AA:471:A:H1'	2.07	0.89
2:AA:586:A:C6	2:AA:1254:A:H2	1.89	0.89
2:AA:635:C:H2'	2:AA:636:G:H8	1.36	0.89
2:AA:1081:U:H2'	2:AA:1082:U:C5	2.07	0.89
2:AA:1173:G:H22	2:AA:1175:U:C5'	1.84	0.89
2:AA:1675:C:O2	2:AA:1675:C:H2'	1.71	0.89
2:AA:2107:C:N4	2:AA:2182:G:H1	1.69	0.89
2:AA:2125:G:N2	2:AA:2174:C:N4	2.20	0.89
2:AA:2254:C:C2'	2:AA:2255:G:H5'	2.01	0.89
2:AA:2321:G:H21	2:AA:2322:A:H1'	1.37	0.89
2:AA:2527:C:OP1	33:A9:30:VAL:HG13	1.71	0.89
4:AD:79:THR:HG23	4:AD:111:VAL:HG13	1.54	0.89
5:AE:219:VAL:HG11	5:AE:235:ILE:CD1	2.02	0.89
8:AH:94:ARG:HB3	8:AH:127:GLN:HE22	1.35	0.89
12:AM:44:ALA:HB3	12:AM:132:LEU:HD23	1.52	0.89
16:AQ:105:GLY:O	16:AQ:106:LEU:HD23	1.72	0.89
20:AU:87:VAL:HG13	20:AU:88:PRO:HD2	1.54	0.89
23:AX:27:GLY:C	23:AX:28:LEU:HG	1.95	0.89
26:A2:33:VAL:HB	26:A2:63:HIS:CD2	2.05	0.89
27:A3:40:GLN:HG2	27:A3:67:VAL:O	1.72	0.89
34:BA:828:A:N1	34:BA:859:A:O4'	2.04	0.89
34:BA:965:A:OP1	34:BA:1198:G:OP1	1.91	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1002:G:N3	34:BA:1003:G:H1'	1.87	0.89
38:BF:130:VAL:O	38:BF:133:ALA:HB3	1.72	0.89
39:BG:25:ARG:NE	39:BG:30:LYS:HD3	1.87	0.89
41:BI:89:MET:HG2	53:BU:76:LEU:HD21	1.53	0.89
42:BJ:36:LYS:HB2	42:BJ:36:LYS:HZ2	1.38	0.89
43:BK:12:ARG:HH12	43:BK:27:PRO:HD3	1.30	0.89
44:BL:67:GLY:N	44:BL:73:GLN:HE21	1.70	0.89
45:BM:30:SER:HB3	45:BM:80:LYS:HG3	1.54	0.89
2:AA:808:G:H2'	2:AA:809:G:C8	2.06	0.89
2:AA:1054:A:N1	2:AA:1105:U:O2	2.06	0.89
2:AA:1317:A:H2'	2:AA:1318:C:H6	1.35	0.89
2:AA:1341:U:O2'	2:AA:1342:A:OP1	1.89	0.89
2:AA:1368:G:OP1	31:A7:25:LYS:HD2	1.72	0.89
2:AA:1664:A:C2	2:AA:1665:A:N6	2.40	0.89
2:AA:2185:C:H2'	2:AA:2186:G:H8	1.38	0.89
2:AA:2282:G:N2	2:AA:2425:A:C8	2.41	0.89
2:AA:2313:C:OP1	7:AG:51:ARG:HB3	1.71	0.89
2:AA:2748:A:C8	8:AH:62:ALA:HB1	2.06	0.89
4:AD:76:ARG:HD3	4:AD:113:MET:CB	2.03	0.89
5:AE:256:THR:HA	5:AE:259:HIS:CE1	2.07	0.89
6:AF:83:ALA:CB	6:AF:87:ARG:NH2	2.34	0.89
7:AG:19:GLU:OE1	7:AG:135:VAL:HG22	1.72	0.89
8:AH:10:ILE:CD1	8:AH:16:VAL:HG21	2.01	0.89
10:AK:108:LEU:C	10:AK:109:LYS:HE2	1.96	0.89
22:AW:55:ARG:HD2	22:AW:55:ARG:H	1.36	0.89
26:A2:59:GLU:CG	26:A2:100:GLY:H	1.84	0.89
26:A2:72:ARG:HB2	26:A2:88:GLN:NE2	1.87	0.89
34:BA:880:C:O2'	34:BA:881:G:H5'	1.72	0.89
34:BA:975:A:C4'	34:BA:976:G:H5'	2.02	0.89
34:BA:1124:G:H1	34:BA:1149:C:H42	1.18	0.89
34:BA:1540:U:H2'	34:BA:1541:U:O4'	1.73	0.89
37:BE:73:THR:HG21	37:BE:97:TRP:H	1.34	0.89
37:BE:167:PRO:O	37:BE:169:LYS:N	2.06	0.89
40:BH:95:ALA:HB1	40:BH:96:PRO:HD3	1.52	0.89
42:BJ:12:LEU:HD22	42:BJ:24:THR:HB	1.55	0.89
42:BJ:129:GLU:HB3	42:BJ:131:LYS:HG2	1.52	0.89
51:BS:6:LEU:HD23	51:BS:17:TYR:CD2	2.07	0.89
54:BV:18:LYS:O	54:BV:22:LEU:HB2	1.71	0.89
55:BW:72:LEU:HD22	55:BW:77:ALA:N	1.88	0.89
2:AA:218:A:H2'	2:AA:219:G:O4'	1.72	0.89
2:AA:636:G:OP1	14:AO:127:GLU:HG2	1.73	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:800:A:O2'	2:AA:801:G:C3'	2.20	0.89
2:AA:928:G:H2'	2:AA:929:G:C5	2.06	0.89
2:AA:974(A):C:C6	2:AA:1186:G:N1	2.39	0.89
2:AA:1252:G:H22	25:A1:37:GLN:NE2	1.70	0.89
2:AA:1363:C:H1'	2:AA:1810:A:H1'	1.54	0.89
2:AA:2417:C:O2'	2:AA:2418:A:H5'	1.72	0.89
2:AA:2468:G:H22	2:AA:2481:G:H2'	1.36	0.89
2:AA:2508:G:O2'	2:AA:2509:G:H5'	1.71	0.89
2:AA:2564:A:OP1	2:AA:2648:C:H4'	1.71	0.89
2:AA:2582:G:O2'	2:AA:2583:G:H5'	1.72	0.89
2:AA:2779:U:H1'	2:AA:2781:A:H62	1.32	0.89
5:AE:43:GLY:O	5:AE:309:PRO:HD2	1.71	0.89
7:AG:19:GLU:HB3	7:AG:135:VAL:CG2	2.02	0.89
8:AH:83:GLU:HB2	8:AH:133:LYS:HG2	1.53	0.89
8:AH:137:LYS:HD2	8:AH:138:GLN:H	1.37	0.89
16:AQ:34:LEU:HG	16:AQ:101:VAL:O	1.71	0.89
21:AV:45:GLN:HE21	21:AV:45:GLN:H	1.20	0.89
27:A3:65:GLY:HA2	27:A3:66:LYS:NZ	1.86	0.89
34:BA:922:G:O2'	34:BA:1398:A:N1	2.05	0.89
34:BA:942:G:H21	44:BL:124:GLN:NE2	1.68	0.89
39:BG:163:GLU:HG3	39:BG:164:ALA:N	1.85	0.89
43:BK:95:VAL:HB	43:BK:99:GLU:OE1	1.71	0.89
43:BK:112:LEU:HD21	43:BK:131:GLY:CA	2.02	0.89
44:BL:19:LEU:HD22	44:BL:59:PHE:HB3	1.53	0.89
45:BM:5:ARG:HB2	45:BM:5:ARG:CZ	2.02	0.89
47:BO:90:VAL:HG12	47:BO:93:LEU:HD21	1.53	0.89
2:AA:71:A:H4'	2:AA:72:U:H5''	1.52	0.89
2:AA:528:A:H3'	2:AA:528:A:H8	1.37	0.89
2:AA:929:G:H1'	23:AX:43:ILE:HD11	1.52	0.89
2:AA:1084:A:C8	9:AI:37:VAL:HB	2.07	0.89
2:AA:1114:G:N2	2:AA:1115:G:H1'	1.87	0.89
2:AA:1171:G:N1	2:AA:1179:C:N4	2.17	0.89
2:AA:1202:C:N4	2:AA:1243:G:H1	1.70	0.89
2:AA:1255:U:H5''	2:AA:1256:G:C5'	2.02	0.89
2:AA:1752:C:N3	2:AA:1756:G:N2	2.20	0.89
2:AA:2432:A:N7	28:A4:30:GLU:HB3	1.88	0.89
2:AA:2739:U:H3'	2:AA:2739:U:C6	2.05	0.89
24:A0:63:ARG:HH22	24:A0:77:ARG:HA	1.36	0.89
25:A1:26:GLY:O	25:A1:27:SER:HB2	1.71	0.89
29:A5:45:ILE:HG13	29:A5:52:TYR:CE1	2.05	0.89
34:BA:276:G:C2'	34:BA:277:C:H5'	2.03	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1095:U:H5'	34:BA:1109:C:O2	1.71	0.89
34:BA:1107:C:H2'	34:BA:1108:G:H5'	1.53	0.89
35:BC:16:U:H5'	35:BC:18:G:H5''	1.54	0.89
38:BF:91:LEU:HD11	38:BF:99:VAL:HG22	1.52	0.89
43:BK:10:LEU:HD11	43:BK:85:ARG:HB2	1.51	0.89
45:BM:29:ARG:HB2	45:BM:84:GLN:HE22	1.35	0.89
48:BP:91:ARG:NH1	48:BP:96:LEU:HD12	1.88	0.89
52:BT:38:ARG:HG3	52:BT:39:SER:N	1.86	0.89
2:AA:270(A):A:N6	2:AA:270(Z):U:H5''	1.87	0.89
2:AA:617:G:C8	2:AA:618:G:N7	2.41	0.89
2:AA:850:C:H42	2:AA:928:G:H1	1.17	0.89
2:AA:858:U:H2'	2:AA:2268:A:H2'	1.55	0.89
2:AA:870:A:N1	2:AA:907:U:O2	2.05	0.89
2:AA:1012:U:O2	12:AM:21:ARG:HG2	1.73	0.89
2:AA:1338:G:H4'	19:AT:12:GLU:OE1	1.71	0.89
2:AA:1350:C:N4	2:AA:1381:G:N1	2.11	0.89
2:AA:1906:G:H2'	2:AA:1907:G:C8	2.08	0.89
2:AA:1943:U:H1'	2:AA:1945:G:C5'	2.01	0.89
2:AA:2657:A:H62	2:AA:2664:G:N2	1.71	0.89
3:AC:83:ILE:O	3:AC:87:GLU:HG3	1.72	0.89
4:AD:74:PRO:CD	4:AD:96:ALA:HB2	2.02	0.89
7:AG:96:SER:C	7:AG:98:PHE:H	1.77	0.89
13:AN:11:ALA:CA	13:AN:99:PHE:HB2	2.02	0.89
14:AO:141:GLU:CB	14:AO:145:LEU:HD22	2.02	0.89
15:AP:82:LYS:HZ2	15:AP:84:ARG:CZ	1.85	0.89
18:AS:19:LEU:CD2	29:A5:25:LEU:HG	2.01	0.89
21:AV:13:LYS:C	21:AV:15:ASP:H	1.79	0.89
21:AV:34:LEU:HD13	21:AV:39:PHE:CZ	2.07	0.89
34:BA:953:G:N7	48:BP:104:ARG:NH2	2.20	0.89
34:BA:1296:C:C5	34:BA:1297:C:N4	2.39	0.89
34:BA:1410:G:H1	34:BA:1490:C:H42	1.15	0.89
45:BM:16:LEU:HB3	45:BM:70:ARG:HG2	1.55	0.89
52:BT:10:VAL:HB	52:BT:54:GLY:N	1.87	0.89
53:BU:58:LEU:HB3	53:BU:62:GLU:HB3	1.55	0.89
54:BV:5:LEU:HD12	54:BV:9:VAL:HG22	1.55	0.89
55:BW:72:LEU:HD13	55:BW:77:ALA:HB2	1.54	0.89
2:AA:270(S):G:H2'	2:AA:270(T):G:H8	1.36	0.89
2:AA:328:U:H2'	2:AA:328:U:O2	1.72	0.89
2:AA:600:G:OP1	6:AF:27:ARG:HD3	1.72	0.89
2:AA:607:U:C4	2:AA:621:A:C6	2.61	0.89
2:AA:987:G:C2'	2:AA:988:A:H5'	2.02	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1084:A:P	9:AI:37:VAL:C	2.55	0.89
2:AA:1085:A:OP1	9:AI:36:PRO:HD2	1.71	0.89
2:AA:1239:G:O2'	2:AA:1240:U:H6	1.53	0.89
2:AA:1403:C:H4'	2:AA:1471:A:C5'	2.01	0.89
2:AA:1414:G:H2'	2:AA:1415:U:C6	2.07	0.89
2:AA:1747:G:O2'	2:AA:1748:G:H5'	1.73	0.89
2:AA:1841:U:H2'	2:AA:1842:G:C8	2.07	0.89
2:AA:1936:A:C4	2:AA:1940:U:N3	2.40	0.89
2:AA:1969:A:C4'	2:AA:1970:A:H5'	2.01	0.89
2:AA:2059:A:H2	2:AA:2503:A:N6	1.68	0.89
2:AA:2331:G:N2	2:AA:2385:C:H41	1.71	0.89
2:AA:2416:C:O2'	2:AA:2417:C:H5''	1.73	0.89
2:AA:2636:U:H4'	5:AE:84:ARG:NH1	1.88	0.89
4:AD:60:GLN:O	4:AD:62:ARG:HD3	1.71	0.89
6:AF:225:PRO:O	6:AF:231:ARG:HG3	1.71	0.89
8:AH:22:THR:HG22	8:AH:34:ARG:O	1.73	0.89
11:AL:67:THR:O	11:AL:68:PHE:HB2	1.72	0.89
12:AM:45:VAL:HG22	12:AM:131:THR:N	1.87	0.89
21:AV:112:LEU:CD2	21:AV:171:VAL:HB	2.02	0.89
25:A1:55:ARG:HA	25:A1:58:ARG:HG3	1.55	0.89
29:A5:15:LYS:O	29:A5:18:MET:HG2	1.73	0.89
34:BA:1291:G:H2'	34:BA:1292:U:C6	2.08	0.89
40:BH:95:ALA:HB1	40:BH:96:PRO:CD	2.02	0.89
42:BJ:46:ALA:HA	42:BJ:49:ILE:HD12	1.53	0.89
47:BO:41:ARG:HH22	47:BO:57:LYS:HZ2	1.17	0.89
50:BR:33:THR:HG23	50:BR:63:ARG:HH11	1.38	0.89
2:AA:1130:U:O2'	2:AA:1131:G:OP1	1.90	0.89
2:AA:1275:A:H61	24:A0:19:ALA:HB2	1.38	0.89
2:AA:1492:G:HO2'	2:AA:1493:C:H6	0.90	0.89
2:AA:1676:A:H2'	2:AA:1677:A:H8	1.34	0.89
2:AA:2056:G:N2	29:A5:4:HIS:O	2.06	0.89
2:AA:2810:A:H2'	2:AA:2811:G:C5'	2.03	0.89
2:AA:2832:U:C6	2:AA:2832:U:H5'	2.08	0.89
5:AE:317:PRO:CG	5:AE:320:GLN:HG2	2.01	0.89
10:AK:77:VAL:HG12	10:AK:79:ILE:CD1	2.02	0.89
12:AM:63:ILE:O	12:AM:69:TYR:HB3	1.72	0.89
13:AN:7:ARG:HB3	13:AN:44:LYS:NZ	1.86	0.89
15:AP:12:PRO:HB3	15:AP:20:ILE:HD11	1.54	0.89
21:AV:67:LYS:NZ	21:AV:67:LYS:HA	1.88	0.89
25:A1:28:ARG:NH1	25:A1:28:ARG:H	1.71	0.89
34:BA:13:U:O4	34:BA:21:G:O6	1.89	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:394:G:H2'	34:BA:395:C:H6	1.37	0.89
34:BA:992:U:H4'	34:BA:993:G:O5'	1.73	0.89
34:BA:1250:A:H2'	34:BA:1251:A:H8	1.37	0.89
37:BE:24:TRP:CZ3	37:BE:26:PRO:HA	2.08	0.89
39:BG:152:SER:C	39:BG:154:ASN:H	1.77	0.89
48:BP:4:ILE:HD12	48:BP:8:GLU:O	1.73	0.89
51:BS:3:LYS:CD	51:BS:24:ALA:HB2	2.03	0.89
55:BW:88:VAL:HG12	55:BW:92:LEU:HD11	1.53	0.89
2:AA:123:G:H1	2:AA:128:C:H42	1.19	0.89
2:AA:930:U:H5'	2:AA:931:G:OP2	1.73	0.89
2:AA:949:C:H2'	2:AA:950:G:H8	1.36	0.89
2:AA:972:G:C8	2:AA:974:G:OP1	2.25	0.89
2:AA:1188:U:O2'	2:AA:1189:A:H5'	1.73	0.89
2:AA:1197:G:C6	2:AA:1198:U:C5	2.60	0.89
2:AA:2336:A:H2'	2:AA:2337:G:H5'	1.53	0.89
2:AA:2852:G:H1	2:AA:2865:U:H3	0.90	0.89
4:AD:85:ASN:C	4:AD:86:ARG:HE	1.81	0.89
4:AD:210:LYS:HG3	4:AD:211:HIS:H	1.37	0.89
5:AE:39:GLN:CB	5:AE:174:LEU:HG	2.03	0.89
5:AE:269:ILE:CG1	5:AE:297:LYS:HG2	2.02	0.89
7:AG:46:GLY:O	7:AG:47:GLN:HG3	1.72	0.89
10:AK:93:ILE:CD1	10:AK:121:ILE:HB	2.00	0.89
11:AL:95:LYS:O	11:AL:97:VAL:HG22	1.72	0.89
15:AP:16:ARG:CB	15:AP:19:TYR:HB2	2.03	0.89
15:AP:56:ILE:HG22	15:AP:61:LEU:CD1	2.03	0.89
18:AS:88:ARG:O	18:AS:90:ARG:N	2.04	0.89
25:A1:69:ALA:HB1	25:A1:79:PHE:CE1	2.08	0.89
29:A5:13:LYS:O	29:A5:17:ASP:OD1	1.91	0.89
29:A5:15:LYS:HA	29:A5:18:MET:CG	2.01	0.89
34:BA:667:G:H4'	50:BR:51:HIS:ND1	1.87	0.89
34:BA:965:A:O2'	34:BA:966:G:C5'	2.20	0.89
35:BC:44:A:N6	35:BC:45:G:N2	2.21	0.89
40:BH:11:ILE:HG22	40:BH:12:LEU:N	1.87	0.89
43:BK:115:SER:O	43:BK:116:LYS:HD2	1.72	0.89
55:BW:30:LYS:HB2	55:BW:30:LYS:HZ2	1.33	0.89
2:AA:99:U:H3	20:AU:107:LYS:CD	1.85	0.89
2:AA:270:A:H2'	2:AA:270(A):A:C4'	2.03	0.89
2:AA:273(D):C:N4	2:AA:363(B):G:N1	2.21	0.89
2:AA:458:G:O2'	2:AA:469:G:N1	2.05	0.89
2:AA:801:G:OP1	6:AF:79:ARG:HD3	1.72	0.89
2:AA:873:G:H4'	15:AP:32:LYS:HG2	1.54	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1030:G:H1	2:AA:1124:C:N4	1.69	0.89
2:AA:1051:G:H4'	2:AA:2752:C:O2'	1.72	0.89
2:AA:1083:U:H2'	9:AI:37:VAL:HA	0.89	0.89
2:AA:1113:U:H2'	2:AA:1114:G:H8	1.34	0.89
2:AA:1151:G:O3'	25:A1:81:ASN:OD1	1.89	0.89
2:AA:1488:G:H2'	2:AA:1489:U:H5'	1.53	0.89
2:AA:1556:C:H2'	2:AA:1557:C:C6	2.08	0.89
2:AA:1995:U:H5'	2:AA:1996:C:H5'	1.53	0.89
2:AA:2519:U:OP1	2:AA:2519:U:H3'	1.73	0.89
5:AE:79:ARG:HA	5:AE:186:GLU:HA	1.54	0.89
6:AF:45:ASP:HB3	6:AF:98:ARG:CZ	2.03	0.89
6:AF:55:ARG:HA	6:AF:79:ARG:NH2	1.88	0.89
7:AG:102:GLY:O	7:AG:134:LEU:HB2	1.73	0.89
12:AM:56:LYS:O	12:AM:59:LYS:HB2	1.73	0.89
13:AN:64:ARG:HB2	13:AN:79:PHE:CE1	2.07	0.89
15:AP:48:ASN:ND2	15:AP:122:PHE:H	1.71	0.89
19:AT:14:ALA:HB1	19:AT:18:MET:HE2	1.55	0.89
19:AT:25:GLN:OE1	19:AT:65:VAL:HG13	1.73	0.89
21:AV:46:GLN:NE2	21:AV:50:GLY:HA3	1.87	0.89
26:A2:4:ILE:C	26:A2:39:PHE:HE2	1.79	0.89
26:A2:39:PHE:O	26:A2:40:VAL:HG13	1.73	0.89
34:BA:333:G:C4'	55:BW:16:HIS:HE2	1.85	0.89
34:BA:511:C:HO2'	34:BA:512:U:H6	0.90	0.89
34:BA:551:U:H5'	47:BO:119:LYS:CE	2.03	0.89
34:BA:1000:U:H3	34:BA:1041:A:H2	1.19	0.89
34:BA:1193:G:H2'	34:BA:1194:U:C5'	2.01	0.89
34:BA:1346:A:H4'	34:BA:1347:G:O5'	1.73	0.89
34:BA:1495:U:O2'	34:BA:1496:C:H5'	1.73	0.89
37:BE:77:ALA:O	37:BE:80:ILE:N	2.06	0.89
37:BE:88:ALA:HA	37:BE:222:ILE:CD1	2.03	0.89
41:BI:33:TYR:CE1	41:BI:75:LEU:HD23	2.07	0.89
45:BM:22:LYS:HE2	45:BM:90:LEU:HD12	1.55	0.89
47:BO:92:ASP:C	47:BO:93:LEU:HD23	1.98	0.89
2:AA:58:G:H2'	2:AA:73:A:C6	2.08	0.88
2:AA:503:A:H1'	2:AA:505:A:C8	2.08	0.88
2:AA:687:C:H42	2:AA:775:G:H1	1.08	0.88
2:AA:1063:G:N1	2:AA:1075:C:N4	2.22	0.88
2:AA:1267:U:C5	2:AA:2012:G:N2	2.40	0.88
2:AA:1333:C:H6	2:AA:1333:C:H5'	1.37	0.88
2:AA:2456:C:O2'	2:AA:2457:U:H5'	1.73	0.88
2:AA:2737:G:N2	2:AA:2767:C:N3	2.21	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:22:ILE:HD11	3:AC:193:ILE:HD11	1.51	0.88
6:AF:162:VAL:O	6:AF:165:ASP:HB2	1.73	0.88
8:AH:86:LEU:HD21	8:AH:161:ILE:HG22	1.53	0.88
12:AM:87:LEU:HD13	12:AM:98:PHE:CE2	2.08	0.88
15:AP:68:ALA:CB	15:AP:139:ALA:HB2	2.01	0.88
17:AR:23:HIS:ND1	17:AR:24:LYS:O	2.06	0.88
27:A3:36:ILE:HB	27:A3:68:VAL:CG1	2.03	0.88
34:BA:988:G:O6	34:BA:1217:C:N3	2.05	0.88
34:BA:1086:U:O4	34:BA:1099:G:O6	1.90	0.88
34:BA:1203:C:OP1	49:BQ:2:ALA:HB2	1.73	0.88
34:BA:1314:C:H41	54:BV:4:SER:CB	1.86	0.88
37:BE:69:LEU:CB	37:BE:162:ILE:HG22	2.02	0.88
42:BJ:31:MET:HG2	42:BJ:32:ARG:H	1.36	0.88
43:BK:33:GLU:CG	43:BK:59:LEU:HD11	2.02	0.88
45:BM:32:ALA:CB	45:BM:76:ASN:HD22	1.82	0.88
48:BP:52:GLU:O	48:BP:56:LEU:HG	1.73	0.88
48:BP:89:GLY:O	48:BP:93:ARG:HB2	1.72	0.88
50:BR:32:LEU:HB3	50:BR:63:ARG:HG2	1.55	0.88
50:BR:39:LEU:HD21	50:BR:56:LEU:HD22	1.54	0.88
2:AA:954:G:H2'	2:AA:955:C:O4'	1.73	0.88
2:AA:1403:C:C5'	2:AA:1471:A:H5'	2.04	0.88
2:AA:2067:G:H1	2:AA:2443:C:H42	1.15	0.88
4:AD:154:VAL:HG22	4:AD:157:ALA:HB1	1.54	0.88
4:AD:158:GLY:HA2	4:AD:194:VAL:HG21	1.55	0.88
4:AD:183:ILE:HG22	4:AD:184:LEU:N	1.85	0.88
5:AE:211:GLN:OE1	5:AE:212:GLY:O	1.91	0.88
8:AH:82:TYR:O	8:AH:133:LYS:HA	1.74	0.88
13:AN:64:ARG:CZ	13:AN:100:GLY:HA3	2.03	0.88
20:AU:21:LYS:NZ	20:AU:22:GLN:HE21	1.71	0.88
32:A8:26:LYS:HD2	32:A8:44:LYS:N	1.87	0.88
34:BA:70:G:H1	34:BA:98:U:H3	1.14	0.88
35:BB:6:U:N3	35:BB:68:U:N3	2.20	0.88
40:BH:16:THR:O	40:BH:26:PHE:HB2	1.73	0.88
41:BI:77:ARG:CA	41:BI:80:ARG:HD2	2.00	0.88
44:BL:74:ILE:HA	44:BL:77:ILE:CD1	2.03	0.88
47:BO:84:LEU:H	47:BO:104:VAL:HG11	1.31	0.88
50:BR:78:TYR:CE2	50:BR:82:ILE:HD11	2.09	0.88
53:BU:29:PHE:CE1	53:BU:39:VAL:HG11	2.09	0.88
53:BU:49:LYS:HE3	53:BU:49:LYS:H	1.30	0.88
2:AA:94:G:N2	22:AW:42:ASN:ND2	2.20	0.88
2:AA:245:G:H22	2:AA:254:G:H1'	0.74	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:301:G:H2'	2:AA:302:C:C6	2.07	0.88
2:AA:363(D):G:O2'	2:AA:363(E):U:H5'	1.73	0.88
2:AA:714:U:H2'	2:AA:715:G:OP2	1.70	0.88
2:AA:1508:A:C8	2:AA:1508:A:H3'	2.07	0.88
2:AA:1799:G:C6	4:AD:177:SER:HB2	2.07	0.88
2:AA:2021:C:P	29:A5:15:LYS:HE3	2.13	0.88
2:AA:2314:C:H5'	7:AG:22:VAL:HG11	1.55	0.88
2:AA:2463:C:N3	2:AA:2487:G:O6	2.06	0.88
2:AA:2700:C:H2'	2:AA:2701:C:C4'	2.02	0.88
4:AD:80:ILE:HB	4:AD:82:TYR:CE1	2.07	0.88
5:AE:222:ARG:NH2	5:AE:234:ARG:HB2	1.88	0.88
6:AF:52:ALA:HA	6:AF:55:ARG:HE	1.35	0.88
6:AF:81:PRO:HA	6:AF:87:ARG:HG2	1.55	0.88
8:AH:117:GLU:O	8:AH:120:LEU:HG	1.73	0.88
10:AK:21:VAL:HB	10:AK:26:ALA:CB	2.04	0.88
13:AN:2:ILE:HG13	13:AN:67:ARG:HH21	1.36	0.88
13:AN:43:VAL:HG11	13:AN:54:LYS:CA	2.02	0.88
15:AP:42:TYR:CD2	21:AV:119:ASN:HA	2.08	0.88
20:AU:71:VAL:HG13	20:AU:72:ILE:N	1.87	0.88
21:AV:52:PHE:N	21:AV:65:LEU:HD11	1.88	0.88
24:A0:53:HIS:HA	24:A0:56:LYS:HG3	1.55	0.88
27:A3:39:ARG:HG2	27:A3:69:PHE:CZ	2.09	0.88
30:A6:16:ALA:O	30:A6:48:VAL:HG11	1.73	0.88
34:BA:343:U:O2	34:BA:346:G:N1	2.07	0.88
34:BA:817:C:N4	34:BA:1529:G:O6	2.06	0.88
34:BA:923:A:OP1	40:BH:21:ALA:HB2	1.74	0.88
34:BA:1305:G:N2	34:BA:1331:G:H2'	1.87	0.88
37:BE:139:LYS:O	37:BE:143:GLU:HB2	1.74	0.88
46:BN:79:SER:OG	46:BN:106:LYS:HE2	1.73	0.88
55:BW:79:ARG:HA	55:BW:82:SER:HB3	1.56	0.88
2:AA:407:G:H1	2:AA:420:C:H42	0.89	0.88
2:AA:959:A:H2'	2:AA:960:A:H8	1.39	0.88
2:AA:976:C:H42	2:AA:987:G:H1	1.15	0.88
2:AA:1024:G:C6	2:AA:1025:G:N7	2.42	0.88
2:AA:1184:G:H2'	2:AA:1185:C:H5'	1.53	0.88
2:AA:1273:U:H4'	2:AA:1275:A:OP2	1.74	0.88
2:AA:1936:A:N9	2:AA:1940:U:N3	2.21	0.88
2:AA:2092:U:H5	2:AA:2227:A:N6	1.70	0.88
2:AA:2312:U:H5'	7:AG:53:LYS:CA	2.01	0.88
2:AA:2715:C:H2'	2:AA:2716:U:C6	2.08	0.88
2:AA:2850:A:C2	2:AA:2869:G:H4'	2.07	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:199:ALA:CA	5:AE:312:ARG:O	2.21	0.88
6:AF:82:GLN:N	6:AF:87:ARG:NH1	2.21	0.88
8:AH:168:VAL:HG12	8:AH:169:ARG:H	1.36	0.88
9:AI:3:ILE:CG2	11:AL:117:ASN:HA	2.02	0.88
9:AJ:78:ARG:HH22	11:AL:59:THR:HG21	1.37	0.88
11:AL:129:GLU:O	11:AL:133:LYS:HG3	1.72	0.88
12:AM:56:LYS:HA	12:AM:59:LYS:HG3	1.53	0.88
13:AN:64:ARG:O	13:AN:64:ARG:HG2	1.73	0.88
18:AS:4:LYS:HD2	18:AS:106:ILE:HG12	1.55	0.88
28:A4:43:TRP:HA	28:A4:61:LYS:CE	2.03	0.88
34:BA:1333:A:O2'	34:BA:1334:G:H5'	1.74	0.88
35:BC:35:A:H8	35:BC:35:A:H5'	1.35	0.88
39:BG:12:CYS:SG	39:BG:19:LEU:O	2.32	0.88
47:BO:41:ARG:HH22	47:BO:57:LYS:NZ	1.70	0.88
52:BT:6:LEU:HD22	52:BT:23:VAL:HG11	1.55	0.88
2:AA:25:U:O2	2:AA:515:A:N1	2.06	0.88
2:AA:221:A:H4'	2:AA:222:A:H5'	1.55	0.88
2:AA:1155:A:O5'	25:A1:55:ARG:NH1	2.05	0.88
2:AA:1264:G:N7	2:AA:1265:A:C5	2.41	0.88
2:AA:1287:A:O4'	24:A0:104:ARG:HD2	1.73	0.88
2:AA:1534:G:N1	2:AA:1538:G:H1'	1.88	0.88
2:AA:1917:U:H3'	2:AA:1917:U:C6	2.09	0.88
2:AA:1965:C:H3'	2:AA:1966:A:H8	1.36	0.88
2:AA:2053:G:H1	2:AA:2616:C:H42	1.21	0.88
2:AA:2317:C:C5'	7:AG:150:SER:HA	2.03	0.88
2:AA:2645:G:H4'	2:AA:2732:G:O2'	1.73	0.88
3:AC:74:VAL:HG22	3:AC:112:ALA:HB3	1.54	0.88
5:AE:225:LYS:HB3	5:AE:226:HIS:CE1	2.09	0.88
7:AG:105:SER:HB3	7:AG:130:VAL:O	1.74	0.88
8:AH:28:PRO:C	8:AH:30:GLY:H	1.77	0.88
12:AM:54:VAL:HA	12:AM:135:ILE:HG23	1.54	0.88
14:AO:108:VAL:CB	14:AO:125:PHE:HD2	1.86	0.88
15:AP:35:ASN:HD21	21:AV:114:ASP:N	1.71	0.88
15:AP:65:ARG:HH22	15:AP:87:LYS:H	1.19	0.88
18:AS:8:ARG:HG2	18:AS:9:TYR:N	1.86	0.88
22:AW:53:ILE:CG2	22:AW:57:LYS:HE3	2.01	0.88
34:BA:299:G:H2'	34:BA:300:A:C8	2.07	0.88
34:BA:417:C:N3	34:BA:426:G:N2	2.20	0.88
34:BA:620:C:H2'	34:BA:621:A:O4'	1.72	0.88
34:BA:757:U:H5'	34:BA:878:G:N2	1.89	0.88
34:BA:965:A:O2'	34:BA:966:G:H5''	1.73	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B1:23:U:H2'	36:B1:24:A:O4'	1.72	0.88
41:BI:22:GLU:O	41:BI:26:ILE:HG13	1.73	0.88
43:BK:29:SER:CB	43:BK:32:LYS:HZ1	1.85	0.88
52:BT:60:ILE:HD13	52:BT:62:SER:OG	1.72	0.88
1:AB:93:C:H2'	1:AB:94:C:C6	2.08	0.88
2:AA:107:C:H2'	2:AA:108:U:H6	1.38	0.88
2:AA:311:A:N1	2:AA:331:A:OP2	2.07	0.88
2:AA:511:U:H5	2:AA:512:G:N3	1.71	0.88
2:AA:1780:A:O2'	2:AA:1781:C:OP1	1.91	0.88
2:AA:2635:C:H2'	2:AA:2635:C:O2	1.74	0.88
5:AE:175:ASP:HA	5:AE:178:LEU:HG	1.54	0.88
15:AP:151:SER:HB3	15:AP:155:GLY:O	1.74	0.88
16:AQ:19:ASP:O	16:AQ:22:GLN:CD	2.16	0.88
20:AU:78:THR:HA	20:AU:89:ARG:HG3	1.54	0.88
21:AV:51:LEU:CD2	21:AV:64:ALA:H	1.86	0.88
21:AV:149:ALA:O	21:AV:152:ILE:HG13	1.72	0.88
22:AW:39:ALA:CB	22:AW:40:PRO:HD3	2.02	0.88
23:AX:7:LYS:HB2	23:AX:34:GLU:HG2	1.55	0.88
27:A3:66:LYS:HD2	27:A3:66:LYS:N	1.89	0.88
34:BA:1410:G:H1	34:BA:1490:C:N4	1.70	0.88
34:BA:1507:A:N1	34:BA:1528:U:O4	2.06	0.88
35:BB:57:G:H2'	35:BB:58:A:C5'	2.03	0.88
35:BC:17:U:H3'	35:BC:18:G:H8	1.38	0.88
38:BF:58:GLU:HB2	38:BF:65:ALA:HB2	1.55	0.88
41:BI:33:TYR:CD2	41:BI:75:LEU:HB2	2.09	0.88
41:BI:75:LEU:HD22	41:BI:78:GLU:HB3	1.54	0.88
2:AA:261:G:O4'	2:AA:608:A:H2	1.54	0.88
2:AA:764:A:H62	2:AA:1776:G:H1'	1.39	0.88
2:AA:864:G:H2'	2:AA:865:C:C6	2.09	0.88
2:AA:917:A:H3'	2:AA:918:A:H5''	1.55	0.88
2:AA:987:G:H2'	2:AA:988:A:C5'	2.02	0.88
2:AA:1527:G:N1	2:AA:1544:C:N4	2.17	0.88
2:AA:1991:U:H6	2:AA:1991:U:C3'	1.86	0.88
2:AA:2444:G:H2'	2:AA:2445:G:C8	2.09	0.88
2:AA:2573:C:O5'	2:AA:2574:G:OP1	1.90	0.88
2:AA:2634:G:O2'	2:AA:2635:C:H5'	1.74	0.88
4:AD:122:ASP:C	4:AD:124:LYS:H	1.77	0.88
4:AD:158:GLY:HA2	4:AD:194:VAL:CG2	2.04	0.88
7:AG:24:HIS:HB3	7:AG:72:LYS:HA	1.56	0.88
10:AK:81:ALA:HB3	10:AK:89:LEU:HD22	1.55	0.88
11:AL:10:LYS:HG2	11:AL:57:VAL:HG22	1.54	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:53:ILE:HG23	12:AM:135:ILE:CG1	2.04	0.88
12:AM:80:LYS:O	12:AM:83:ILE:HG13	1.74	0.88
12:AM:83:ILE:O	12:AM:87:LEU:HD12	1.73	0.88
13:AN:1:MET:HE3	13:AN:67:ARG:HB3	1.54	0.88
15:AP:12:PRO:CG	15:AP:92:VAL:H	1.87	0.88
21:AV:13:LYS:CE	21:AV:18:MET:SD	2.61	0.88
21:AV:91:PRO:CD	21:AV:127:PRO:HB3	2.03	0.88
26:A2:35:LEU:H	26:A2:60:VAL:HG13	1.37	0.88
34:BA:157:G:N2	34:BA:164:U:O2	2.06	0.88
34:BA:726:C:N4	34:BA:731:G:H1	1.72	0.88
34:BA:1089:G:H1	34:BA:1096:C:N4	1.72	0.88
34:BA:1271:G:OP1	34:BA:1314:C:H5''	1.72	0.88
35:BB:9:A:N6	35:BB:22:G:C8	2.42	0.88
37:BE:15:VAL:HG21	37:BE:209:ARG:HD2	1.53	0.88
38:BF:175:LEU:HD11	38:BF:201:TYR:CD2	2.08	0.88
43:BK:24:THR:HG22	43:BK:61:VAL:O	1.72	0.88
46:BN:84:VAL:O	46:BN:85:ARG:HD3	1.73	0.88
48:BP:22:ILE:HD12	48:BP:25:ILE:CD1	2.04	0.88
2:AA:518:G:H1'	18:AS:77:ASP:OD1	1.73	0.88
2:AA:673:C:H5''	6:AF:80:VAL:HG13	1.56	0.88
2:AA:1203:G:HO2'	2:AA:1241:A:H2	0.90	0.88
2:AA:1536:A:H2'	2:AA:1537:C:H5'	1.56	0.88
2:AA:2043:C:N4	2:AA:2777:G:N3	2.22	0.88
2:AA:2124:G:OP1	3:AC:133:PRO:HD3	1.73	0.88
2:AA:2185:C:H2'	2:AA:2186:G:C8	2.09	0.88
2:AA:2219:G:H2'	2:AA:2224:G:C5'	2.04	0.88
2:AA:2509:G:N2	2:AA:2510:C:H1'	1.87	0.88
2:AA:2636:U:C4'	5:AE:84:ARG:HH12	1.87	0.88
2:AA:2747:G:C2'	2:AA:2748:A:H5''	2.04	0.88
3:AC:14:VAL:HG22	3:AC:28:LEU:CD2	2.04	0.88
3:AC:22:ILE:HD12	3:AC:190:ARG:CZ	2.04	0.88
4:AD:168:GLY:HA3	4:AD:170:TYR:CE2	2.08	0.88
8:AH:44:VAL:HA	8:AH:49:ILE:CG2	2.03	0.88
14:AO:65:ASP:HB2	14:AO:67:ARG:NH2	1.87	0.88
14:AO:66:VAL:HB	14:AO:67:ARG:CZ	2.03	0.88
14:AO:67:ARG:N	14:AO:67:ARG:HE	1.72	0.88
20:AU:64:ASN:O	20:AU:72:ILE:HG23	1.72	0.88
25:A1:55:ARG:HG2	25:A1:58:ARG:HH21	1.39	0.88
34:BA:138:G:H1	34:BA:225:C:H42	0.90	0.88
34:BA:321:A:H62	34:BA:328:C:H1'	1.37	0.88
34:BA:668:G:N2	34:BA:738:C:N3	2.22	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:671:G:H2'	34:BA:672:U:H6	1.33	0.88
34:BA:692:U:H5	46:BN:26:ASN:ND2	1.72	0.88
34:BA:829:G:H4'	37:BE:26:PRO:HG2	1.55	0.88
34:BA:1405:G:N2	34:BA:1517:G:H22	1.72	0.88
35:BB:37:G:OP2	35:BB:37:G:N7	2.07	0.88
36:B1:52:A:H2'	36:B1:53:G:H8	1.38	0.88
38:BF:84:ILE:HG13	38:BF:101:LEU:CD2	2.03	0.88
49:BQ:23:ARG:H	49:BQ:33:VAL:HG21	1.39	0.88
51:BS:39:TYR:HB2	51:BS:49:LEU:HD13	1.56	0.88
54:BV:44:MET:HA	54:BV:47:HIS:CD2	2.08	0.88
2:AA:343:C:N3	2:AA:344:G:N1	2.20	0.88
2:AA:388:G:OP2	28:A4:23:GLU:HB3	1.74	0.88
2:AA:621:A:C2'	2:AA:622:G:H5'	2.03	0.88
2:AA:647:G:H4'	2:AA:2352:A:OP1	1.73	0.88
2:AA:880:G:H1	2:AA:897:C:H42	0.89	0.88
2:AA:971:C:O2	2:AA:972:G:C1'	2.22	0.88
2:AA:1264:G:C3'	2:AA:1265:A:H5''	2.04	0.88
2:AA:1529:A:H62	2:AA:1542:G:H22	1.19	0.88
4:AD:222:PRO:O	4:AD:224:VAL:N	2.07	0.88
12:AM:84:ARG:CB	12:AM:98:PHE:HE2	1.87	0.88
13:AN:21:VAL:HG22	13:AN:39:VAL:HG11	1.54	0.88
14:AO:92:ASP:OD1	14:AO:94:ARG:HG3	1.73	0.88
15:AP:11:LYS:HD2	15:AP:91:HIS:CD2	2.07	0.88
21:AV:148:THR:CA	21:AV:168:VAL:HB	2.03	0.88
34:BA:81:U:H2'	34:BA:83:U:OP2	1.73	0.88
34:BA:124:G:H2'	34:BA:125:U:O4'	1.73	0.88
34:BA:695:A:H2'	34:BA:696:A:O4'	1.73	0.88
34:BA:1500:A:H5''	34:BA:1508:G:H5''	1.54	0.88
37:BE:115:LEU:HD13	37:BE:145:LEU:HB3	1.55	0.88
46:BN:85:ARG:HH21	46:BN:111:ASP:CG	1.81	0.88
48:BP:10:PRO:CG	48:BP:18:ALA:HB1	2.03	0.88
48:BP:81:LEU:HD13	48:BP:81:LEU:H	1.37	0.88
2:AA:270:A:N1	2:AA:370:G:H1'	1.89	0.88
2:AA:337:C:H3'	2:AA:338:G:H5''	1.55	0.88
2:AA:624:C:O2	2:AA:657:U:H5''	1.74	0.88
2:AA:1055:G:N2	9:AI:29:PHE:CE1	2.41	0.88
2:AA:1995:U:H6	2:AA:1995:U:H5''	1.39	0.88
2:AA:2405:G:H2'	2:AA:2411:A:H61	1.39	0.88
2:AA:2582:G:C2'	2:AA:2583:G:H5'	2.04	0.88
5:AE:214:VAL:CG1	5:AE:221:LYS:HZ2	1.87	0.88
6:AF:225:PRO:HB2	6:AF:231:ARG:HE	1.39	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:19:GLU:CB	7:AG:135:VAL:HG21	2.03	0.88
10:AK:2:LYS:CD	10:AK:39:ALA:HB2	2.04	0.88
10:AK:77:VAL:HG23	10:AK:141:LEU:HD21	1.54	0.88
12:AM:8:ALA:O	12:AM:11:ILE:HG13	1.74	0.88
17:AR:9:CYS:O	17:AR:11:THR:O	1.92	0.88
23:AX:9:VAL:CG2	23:AX:54:VAL:HA	2.02	0.88
24:A0:96:ARG:HH21	24:A0:117:VAL:CG2	1.82	0.88
26:A2:50:ASP:H	26:A2:53:LYS:CD	1.85	0.88
34:BA:792:A:C2'	34:BA:794:A:H62	1.87	0.88
34:BA:1064:G:N2	34:BA:1192:C:N3	2.22	0.88
34:BA:1316:G:O6	54:BV:6:LYS:HE2	1.73	0.88
34:BA:1409:C:O2'	34:BA:1410:G:H5'	1.73	0.88
35:BB:33:U:N1	35:BB:35:A:OP2	2.07	0.88
35:BB:51:G:H1	35:BB:63:C:H42	1.19	0.88
38:BF:182:ILE:HG12	38:BF:203:PHE:HD1	1.37	0.88
40:BH:28:PHE:N	40:BH:28:PHE:CD1	2.37	0.88
41:BI:23:LYS:HE3	41:BI:61:LEU:CD1	2.03	0.88
43:BK:44:PHE:CE2	43:BK:109:ILE:HD13	2.09	0.88
43:BK:63:LEU:H	43:BK:63:LEU:CD1	1.68	0.88
43:BK:115:SER:C	43:BK:116:LYS:HD2	1.98	0.88
51:BS:57:ARG:HA	51:BS:60:LEU:HD12	1.53	0.88
54:BV:15:LEU:H	54:BV:15:LEU:HD23	1.39	0.88
1:AB:56:G:O2'	1:AB:57:A:OP2	1.91	0.87
1:AB:57:A:C2	7:AG:17:ARG:NH1	2.42	0.87
1:AB:74:U:H2'	1:AB:75:G:C8	2.09	0.87
2:AA:137:C:N4	2:AA:142:G:N1	2.22	0.87
2:AA:477:A:H2'	2:AA:478:A:C8	2.08	0.87
2:AA:751:A:O4'	18:AS:90:ARG:NH2	2.07	0.87
2:AA:964:C:O5'	2:AA:964:C:H6	1.57	0.87
2:AA:1259:G:H2'	2:AA:1260:G:H8	1.40	0.87
2:AA:1510:A:H5'	2:AA:1511:A:OP2	1.73	0.87
2:AA:1792:G:N2	2:AA:1827:C:N3	2.21	0.87
2:AA:2251:G:H5''	15:AP:102:ARG:NH2	1.88	0.87
2:AA:2275:C:O2	15:AP:103:ALA:HB2	1.74	0.87
2:AA:2343:C:O2	2:AA:2344:U:H6	1.57	0.87
2:AA:2389:G:H5''	2:AA:2390:U:O5'	1.75	0.87
2:AA:2489:G:H2'	2:AA:2490:G:C8	2.07	0.87
2:AA:2626:C:H2'	2:AA:2627:G:H8	1.39	0.87
3:AC:5:LYS:HZ1	3:AC:8:ARG:HB3	1.37	0.87
6:AF:11:ASN:HD21	6:AF:160:LEU:HD21	1.35	0.87
10:AK:72:LEU:HD11	10:AK:108:LEU:HD13	1.55	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:46:VAL:HG22	15:AP:156:ASN:ND2	1.88	0.87
15:AP:47:GLU:OE2	15:AP:152:SER:HB2	1.74	0.87
21:AV:103:ARG:HD3	21:AV:103:ARG:N	1.87	0.87
30:A6:42:PRO:CG	30:A6:44:ALA:HB3	2.04	0.87
33:A9:20:HIS:O	33:A9:22:ARG:HG3	1.72	0.87
34:BA:3(A):G:H2'	34:BA:1004:A:H4'	1.54	0.87
34:BA:1454:G:H2'	34:BA:1455:G:H8	1.39	0.87
46:BN:99:GLN:HG2	46:BN:105:VAL:CG1	2.03	0.87
2:AA:104:U:H2'	2:AA:105:C:O4'	1.73	0.87
2:AA:179:G:H3'	2:AA:180:G:C8	2.09	0.87
2:AA:244:A:H1'	2:AA:255:A:N6	1.89	0.87
2:AA:610:C:H2'	2:AA:611:C:C6	2.10	0.87
2:AA:1266:G:H2'	2:AA:2012:G:O6	1.73	0.87
2:AA:1453:A:C6	2:AA:1454:U:H1'	2.08	0.87
2:AA:1655:A:H2'	2:AA:1656:C:C6	2.09	0.87
2:AA:1655:A:H4'	5:AE:211:GLN:HA	1.56	0.87
2:AA:1690:A:N6	2:AA:1697:G:N2	2.22	0.87
2:AA:2024:G:H2'	2:AA:2025:C:O4'	1.72	0.87
2:AA:2286:A:H3'	2:AA:2286:A:H8	1.35	0.87
2:AA:2416:C:OP1	14:AO:51:PHE:CE2	2.27	0.87
2:AA:2677:G:O2'	2:AA:2678:C:H5'	1.74	0.87
2:AA:2879:C:H5'	2:AA:2880:C:OP1	1.74	0.87
3:AC:104:LEU:CD1	3:AC:130:ILE:HD11	2.01	0.87
8:AH:49:ILE:HD12	8:AH:49:ILE:N	1.90	0.87
9:AJ:78:ARG:HG2	9:AJ:88:ALA:CB	2.04	0.87
10:AK:21:VAL:HB	10:AK:26:ALA:HB2	1.56	0.87
10:AK:110:LEU:HD23	10:AK:111:ASP:N	1.89	0.87
13:AN:88:ARG:CZ	13:AN:94:ARG:HD3	2.05	0.87
23:AX:3:ARG:CB	23:AX:60:GLU:HA	2.03	0.87
35:BB:9:A:O2'	35:BB:45:G:O2'	1.92	0.87
37:BE:91:PRO:HG3	37:BE:155:LEU:N	1.88	0.87
46:BN:12:ARG:NH1	46:BN:40:ILE:HA	1.89	0.87
51:BS:20:VAL:CG1	51:BS:32:TYR:HB2	2.03	0.87
2:AA:5:A:O2'	12:AM:4:ALA:HB3	1.73	0.87
2:AA:273(D):C:C2	2:AA:363(B):G:N2	2.42	0.87
2:AA:365:C:N3	2:AA:366:C:H5	1.70	0.87
2:AA:452:G:H3'	2:AA:453:C:H5''	1.57	0.87
2:AA:530:G:O6	2:AA:2022:U:P	2.33	0.87
2:AA:584:C:H42	2:AA:1256:G:H1	0.94	0.87
2:AA:627:A:H2'	2:AA:628:G:O4'	1.75	0.87
2:AA:976:C:H5'	2:AA:1156:A:N6	1.88	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1023:U:H2'	2:AA:1024:G:H5'	1.55	0.87
2:AA:1084:A:P	9:AI:40:ALA:H	1.96	0.87
2:AA:1137:G:OP1	12:AM:60:ARG:NH2	2.06	0.87
2:AA:1291:C:O2'	2:AA:1292:U:H5'	1.74	0.87
2:AA:1400:G:H2'	2:AA:1401:G:C8	2.08	0.87
2:AA:2359:C:H4'	32:A8:52:LYS:HZ1	1.34	0.87
2:AA:2450:A:C2'	2:AA:2451:A:H5'	2.04	0.87
2:AA:2692:C:H42	2:AA:2717:G:H1	1.21	0.87
3:AC:75:LEU:HD12	3:AC:93:TYR:O	1.74	0.87
5:AE:292:PRO:O	5:AE:293:TYR:CD2	2.27	0.87
10:AK:114:LYS:CE	10:AK:133:LEU:HA	2.03	0.87
15:AP:51:GLU:N	15:AP:51:GLU:CD	2.33	0.87
15:AP:85:ILE:HG22	15:AP:122:PHE:CB	2.04	0.87
15:AP:120:HIS:CE1	21:AV:76:ARG:HH12	1.91	0.87
21:AV:3:LEU:HD22	21:AV:34:LEU:HB2	1.56	0.87
26:A2:55:THR:O	26:A2:56:VAL:HG23	1.75	0.87
28:A4:15:ILE:HG13	28:A4:36:TRP:CE3	2.09	0.87
34:BA:983:A:H3'	34:BA:983:A:N3	1.89	0.87
34:BA:1320:C:H1'	54:BV:73:GLU:HG2	1.56	0.87
34:BA:1532:U:H6	34:BA:1532:U:H3'	1.38	0.87
35:BB:1:G:C5	35:BB:73:A:N1	2.42	0.87
35:BB:22:G:C2'	35:BB:23:A:H8	1.87	0.87
38:BF:180:ALA:HB1	38:BF:203:PHE:HE1	1.38	0.87
44:BL:11:LYS:HD2	44:BL:108:VAL:HG11	1.55	0.87
48:BP:80:ARG:HG2	48:BP:81:LEU:N	1.89	0.87
51:BS:20:VAL:HG21	51:BS:32:TYR:CD2	2.08	0.87
2:AA:411:G:OP2	2:AA:2407:G:P	2.32	0.87
2:AA:445:C:H3'	25:A1:3:ARG:HH21	1.38	0.87
2:AA:529:A:C2'	2:AA:530:G:H8	1.88	0.87
2:AA:861:A:H62	2:AA:916:G:H21	0.90	0.87
2:AA:997:G:O2'	2:AA:998:C:H5'	1.73	0.87
2:AA:1263:U:C5	2:AA:1264:G:N1	2.42	0.87
2:AA:1731:G:N3	2:AA:1731:G:H2'	1.88	0.87
2:AA:2737:G:H1	2:AA:2767:C:H42	1.16	0.87
4:AD:129:LEU:HD23	4:AD:130:PRO:HD2	1.54	0.87
4:AD:213:LYS:CB	4:AD:215:LYS:HB2	2.05	0.87
8:AH:9:GLU:CA	8:AH:48:VAL:HG12	2.00	0.87
9:AJ:35:ALA:O	9:AJ:39:VAL:HB	1.72	0.87
16:AQ:24:LEU:HA	16:AQ:33:ARG:HH22	1.37	0.87
21:AV:26:LYS:HD2	21:AV:27:GLU:OE2	1.74	0.87
24:A0:45:ARG:HD3	24:A0:97:VAL:CG2	2.03	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:58:ARG:O	25:A1:62:ILE:HG12	1.75	0.87
34:BA:284:G:H2'	34:BA:285:G:H8	1.39	0.87
34:BA:298:A:H3'	34:BA:299:G:H8	1.40	0.87
34:BA:375:U:H4'	51:BS:17:TYR:CE2	2.10	0.87
34:BA:1002:G:H2'	34:BA:1003:G:O4'	1.74	0.87
34:BA:1245:A:H2'	34:BA:1246:C:C6	2.08	0.87
34:BA:1424:C:N4	34:BA:1476:G:H1	1.70	0.87
35:BC:34:G:H3'	35:BC:35:A:H5''	1.54	0.87
37:BE:119:GLU:OE1	37:BE:142:LEU:HD11	1.74	0.87
39:BG:161:ASN:O	39:BG:165:MET:HB2	1.75	0.87
46:BN:121:PRO:HG2	46:BN:126:ARG:HG2	1.55	0.87
53:BU:54:ARG:O	53:BU:54:ARG:HG3	1.74	0.87
1:AB:57:A:H2	7:AG:17:ARG:NH1	1.71	0.87
2:AA:446:G:OP2	25:A1:3:ARG:CZ	2.23	0.87
2:AA:1223:C:C4	2:AA:1227:A:N1	2.42	0.87
2:AA:1322:A:H2'	2:AA:1323:U:H5'	1.57	0.87
2:AA:1790:C:H5''	2:AA:1828:G:H1	1.37	0.87
2:AA:1993:U:C2'	2:AA:1994:C:H5'	2.03	0.87
2:AA:2584:U:C6	2:AA:2584:U:C3'	2.50	0.87
2:AA:2718:G:H2'	2:AA:2719:G:C8	2.09	0.87
2:AA:2770:G:O2'	5:AE:316:ARG:CZ	2.23	0.87
3:AC:5:LYS:NZ	3:AC:8:ARG:HB3	1.88	0.87
4:AD:83:ASP:H	4:AD:89:ASN:HA	1.37	0.87
5:AE:180:ILE:HG23	5:AE:183:ASP:OD2	1.74	0.87
6:AF:162:VAL:HG12	6:AF:164:ALA:H	1.38	0.87
8:AH:120:LEU:HD13	8:AH:143:LEU:HD13	1.57	0.87
11:AL:104:GLN:O	11:AL:107:GLU:HG3	1.75	0.87
12:AM:87:LEU:HB3	12:AM:88:PRO:CD	2.04	0.87
19:AT:6:LYS:HB3	19:AT:27:ALA:C	1.97	0.87
20:AU:21:LYS:HZ1	20:AU:22:GLN:HE21	0.88	0.87
21:AV:21:ALA:CB	21:AV:34:LEU:HD11	2.05	0.87
21:AV:70:GLN:C	21:AV:72:ASP:H	1.80	0.87
21:AV:91:PRO:HB2	21:AV:127:PRO:HA	1.56	0.87
22:AW:20:LEU:HD21	22:AW:53:ILE:CG2	2.03	0.87
32:A8:12:ARG:NH1	32:A8:13:ARG:NH1	2.22	0.87
34:BA:600:C:H5'	43:BK:129:VAL:HA	1.56	0.87
34:BA:1156:G:H1'	34:BA:1179:A:H61	1.39	0.87
53:BU:70:ILE:O	53:BU:73:ALA:HB3	1.74	0.87
55:BW:45:GLN:HA	55:BW:91:LEU:CD2	2.05	0.87
1:AB:82:G:H2'	1:AB:83:G:H8	1.37	0.87
2:AA:144:C:H2'	2:AA:145:G:H8	1.38	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:163:U:H2'	2:AA:164:U:C5	2.10	0.87
2:AA:216:A:H2'	2:AA:217:G:H8	1.34	0.87
2:AA:270(H):C:N4	2:AA:270(R):G:N1	2.22	0.87
2:AA:548:A:H5'	2:AA:549:G:C8	2.08	0.87
2:AA:565:C:HO2'	2:AA:1253:A:H2	0.88	0.87
2:AA:659:C:H5'	6:AF:103:ASN:CG	2.00	0.87
2:AA:1309:G:H2'	2:AA:1310:G:C5'	2.05	0.87
2:AA:1332:G:C4	2:AA:1609:A:N1	2.42	0.87
2:AA:1793:C:N4	2:AA:1825:A:N6	2.23	0.87
2:AA:1851:U:H2'	2:AA:1852:C:C6	2.09	0.87
2:AA:2124:G:H3'	2:AA:2124:G:H8	1.38	0.87
2:AA:2251:G:OP1	15:AP:102:ARG:NE	2.08	0.87
2:AA:2519:U:H3'	2:AA:2519:U:P	2.15	0.87
10:AK:4:ILE:O	10:AK:36:ALA:CB	2.21	0.87
25:A1:61:TRP:CZ3	25:A1:94:VAL:N	2.42	0.87
27:A3:37:LEU:HD12	27:A3:68:VAL:O	1.75	0.87
34:BA:363:A:O2'	34:BA:364:A:H5'	1.73	0.87
34:BA:518:C:N4	35:BB:34:G:H21	1.71	0.87
34:BA:597:G:O2'	34:BA:598:U:H5'	1.74	0.87
34:BA:891:U:H2'	34:BA:892:A:H8	1.39	0.87
37:BE:55:PHE:CA	37:BE:58:ILE:HD12	2.02	0.87
40:BH:47:LYS:HD2	40:BH:47:LYS:H	1.39	0.87
40:BH:149:GLU:HA	40:BH:152:ARG:HB2	1.56	0.87
42:BJ:86:GLN:HG3	42:BJ:148:ASN:ND2	1.89	0.87
46:BN:32:ILE:HB	46:BN:40:ILE:CB	2.01	0.87
54:BV:40:ILE:HA	54:BV:44:MET:SD	2.13	0.87
1:AB:17:C:OP1	7:AG:147:ALA:HA	1.73	0.87
2:AA:23:G:N2	2:AA:24:G:H1'	1.90	0.87
2:AA:606:U:OP1	6:AF:104:ASP:HB2	1.75	0.87
2:AA:667:U:H2'	2:AA:668:G:O4'	1.75	0.87
2:AA:1264:G:O6	2:AA:1265:A:N6	2.07	0.87
2:AA:1406:U:O2'	2:AA:1407:C:O5'	1.91	0.87
2:AA:1456:G:H1	2:AA:2703:C:N4	1.69	0.87
2:AA:1468:C:N3	2:AA:1524:G:N2	2.21	0.87
2:AA:2053:G:O2'	2:AA:2054:A:H5'	1.75	0.87
7:AG:49:PRO:HB3	7:AG:72:LYS:O	1.73	0.87
9:AI:77:VAL:HG22	9:AI:102:ILE:HD11	1.55	0.87
9:AJ:77:VAL:HG22	9:AJ:102:ILE:HD11	1.55	0.87
12:AM:45:VAL:HG13	12:AM:131:THR:N	1.89	0.87
13:AN:71:ARG:C	13:AN:73:ASP:H	1.80	0.87
14:AO:116:HIS:CD2	14:AO:118:LEU:HD21	2.10	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:82:LYS:O	15:AP:124:ALA:HA	1.75	0.87
19:AT:6:LYS:CB	19:AT:27:ALA:O	2.21	0.87
19:AT:17:ASP:HB2	19:AT:18:MET:SD	2.15	0.87
22:AW:45:ARG:HE	22:AW:49:LEU:CD1	1.87	0.87
32:A8:30:ARG:HB3	32:A8:44:LYS:NZ	1.88	0.87
34:BA:1229:A:H2'	34:BA:1230:C:C6	2.10	0.87
36:B1:49:A:H2'	36:B1:50:G:O4'	1.73	0.87
37:BE:187:LEU:HA	37:BE:201:ILE:HB	1.54	0.87
43:BK:6:ILE:HD11	43:BK:10:LEU:HD11	1.56	0.87
43:BK:11:THR:HA	43:BK:14:ARG:CZ	2.03	0.87
43:BK:28:ALA:HB3	43:BK:57:PRO:O	1.75	0.87
44:BL:5:TYR:OH	44:BL:16:ARG:HG3	1.75	0.87
52:BT:25:ARG:NH2	52:BT:40:LYS:HD2	1.90	0.87
2:AA:237:C:O2'	2:AA:238:C:H5'	1.74	0.87
2:AA:980:A:N3	2:AA:2037:G:O2'	2.08	0.87
2:AA:1024:G:N2	2:AA:1139:G:C2	2.42	0.87
2:AA:1472:A:H61	2:AA:1518:C:N4	1.72	0.87
2:AA:1580:A:H2'	2:AA:1581:G:N9	1.90	0.87
2:AA:1841:U:H2'	2:AA:1842:G:H8	1.39	0.87
2:AA:2377:A:N3	16:AQ:102:LEU:HD13	1.90	0.87
9:AI:78:ARG:HG2	9:AI:88:ALA:CB	2.05	0.87
12:AM:74:ARG:HD2	12:AM:140:GLY:O	1.75	0.87
19:AT:22:ASN:HA	19:AT:68:LEU:HD11	1.56	0.87
25:A1:72:HIS:ND1	25:A1:110:VAL:HG21	1.90	0.87
26:A2:74:TYR:OH	26:A2:88:GLN:HA	1.75	0.87
34:BA:235:C:H2'	34:BA:236:G:H8	1.39	0.87
34:BA:300:A:C2'	34:BA:301:G:H5'	2.05	0.87
34:BA:1053:G:O6	34:BA:1199:U:H2'	1.74	0.87
34:BA:1117:G:H5'	34:BA:1118:C:OP2	1.74	0.87
34:BA:1216:G:H2'	34:BA:1217:C:C6	2.09	0.87
40:BH:109:ILE:HG22	40:BH:110:LEU:N	1.88	0.87
41:BI:27:GLN:HA	41:BI:30:LEU:HD13	1.55	0.87
44:BL:67:GLY:N	44:BL:73:GLN:NE2	2.23	0.87
46:BN:57:THR:HG23	46:BN:60:ALA:H	1.38	0.87
53:BU:53:ARG:C	53:BU:55:ARG:H	1.82	0.87
55:BW:43:LEU:HD12	55:BW:55:ILE:HD11	1.55	0.87
2:AA:389:G:OP2	28:A4:24:THR:HG22	1.74	0.87
2:AA:601:C:H2'	2:AA:602:G:H5'	1.54	0.87
2:AA:752:A:H4'	2:AA:753:C:H5'	1.57	0.87
2:AA:835:A:O4'	2:AA:2358:G:H1'	1.75	0.87
2:AA:1336:A:H2'	2:AA:1337:G:C8	2.09	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2111:C:H3'	2:AA:2117:A:N6	1.90	0.87
2:AA:2226:C:C2	2:AA:2227:A:C1'	2.58	0.87
2:AA:2306:C:O2	7:AG:27:ILE:HA	1.74	0.87
2:AA:2541:A:H2	2:AA:2765:A:N6	1.73	0.87
2:AA:2679:A:O2'	2:AA:2680:C:H5'	1.74	0.87
2:AA:2734:A:H61	5:AE:316:ARG:NH2	1.73	0.87
3:AC:86:ALA:HB2	3:AC:149:ILE:HD13	1.57	0.87
5:AE:39:GLN:HB2	5:AE:174:LEU:HG	1.57	0.87
6:AF:156:LEU:O	6:AF:159:ALA:HB3	1.74	0.87
22:AW:45:ARG:HH21	22:AW:49:LEU:CD2	1.88	0.87
23:AX:7:LYS:HE3	23:AX:32:GLN:O	1.75	0.87
25:A1:34:ASN:O	25:A1:38:THR:HG23	1.75	0.87
27:A3:18:PRO:HB2	27:A3:36:ILE:HD13	1.56	0.87
34:BA:64:G:H4'	34:BA:65:U:H5''	1.57	0.87
34:BA:449:C:N3	34:BA:450:G:H1'	1.90	0.87
34:BA:950:U:H3	34:BA:1231:G:H1	0.88	0.87
34:BA:1128:C:N4	34:BA:1143:G:H22	1.71	0.87
34:BA:1329:A:H5'	48:BP:29:ARG:NE	1.89	0.87
36:B1:6:U:H5'	36:B1:7:A:H5'	1.56	0.87
37:BE:39:ILE:HG22	37:BE:41:ILE:HD12	1.57	0.87
55:BW:40:ALA:HA	55:BW:55:ILE:HD12	1.57	0.87
1:AB:61:G:C2	1:AB:62:C:C4	2.62	0.86
2:AA:270(M):U:H4'	2:AA:270(N):G:C4'	2.05	0.86
2:AA:390:A:H5''	2:AA:391:G:OP1	1.73	0.86
2:AA:467:G:H2'	2:AA:468:G:H5'	1.55	0.86
2:AA:666:G:H2'	2:AA:667:U:C6	2.10	0.86
2:AA:1021:A:H2'	2:AA:1022:G:OP1	1.75	0.86
2:AA:1021:A:C2	2:AA:1023:U:H1'	2.09	0.86
2:AA:1054:A:H2'	2:AA:1055:G:C8	2.10	0.86
2:AA:1519:G:C2'	2:AA:1520:U:O4'	2.22	0.86
2:AA:1543:A:H3'	2:AA:1544:C:H6	1.36	0.86
2:AA:2275:C:O2'	2:AA:2276:G:OP2	1.91	0.86
2:AA:2286:A:H5'	2:AA:2287:A:H5'	1.53	0.86
2:AA:2507:C:H2'	2:AA:2508:G:C8	2.09	0.86
4:AD:118:GLY:O	4:AD:129:LEU:HD11	1.74	0.86
8:AH:167:LEU:HG	8:AH:169:ARG:NH1	1.90	0.86
9:AI:35:ALA:O	9:AI:39:VAL:HB	1.73	0.86
12:AM:16:ASP:HA	12:AM:45:VAL:HG23	1.56	0.86
12:AM:38:VAL:O	12:AM:103:VAL:HG13	1.75	0.86
14:AO:94:ARG:HH21	14:AO:118:LEU:HB2	1.38	0.86
15:AP:15:THR:HB	15:AP:20:ILE:CG2	2.04	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:42:ARG:HG2	18:AS:43:GLY:N	1.82	0.86
20:AU:62:VAL:HA	20:AU:74:VAL:HG22	1.57	0.86
21:AV:40:ASP:OD1	21:AV:40:ASP:N	2.06	0.86
26:A2:11:GLN:CD	26:A2:22:VAL:HG23	2.00	0.86
32:A8:16:ILE:HD12	32:A8:16:ILE:H	1.39	0.86
34:BA:375:U:O3'	51:BS:6:LEU:CD2	2.23	0.86
34:BA:399:G:H2'	34:BA:400:C:C6	2.10	0.86
34:BA:610:G:C2'	34:BA:611:A:H5'	2.04	0.86
34:BA:1472:U:O2'	34:BA:1473:A:H5'	1.74	0.86
35:BB:53:G:C6	35:BB:54:U:O4	2.28	0.86
50:BR:62:GLN:O	50:BR:66:LEU:HD23	1.75	0.86
2:AA:342:G:N2	2:AA:344:G:N2	2.23	0.86
2:AA:1350:C:H42	2:AA:1381:G:H1	0.87	0.86
2:AA:1681:G:C4	2:AA:1762:A:N7	2.43	0.86
2:AA:1837:C:OP1	34:BA:784:C:H5''	1.75	0.86
2:AA:2073:C:H2'	2:AA:2074:U:C6	2.08	0.86
2:AA:2325:G:O2'	2:AA:2326:C:H5'	1.74	0.86
2:AA:2378:A:N3	16:AQ:26:LEU:HD21	1.90	0.86
3:AC:75:LEU:HD12	3:AC:93:TYR:HB2	1.56	0.86
7:AG:134:LEU:CD1	7:AG:136:ARG:HH21	1.87	0.86
15:AP:45:GLN:HG2	15:AP:125:TRP:HE1	1.38	0.86
23:AX:9:VAL:HG23	23:AX:54:VAL:CA	2.00	0.86
32:A8:30:ARG:NH2	32:A8:41:ILE:O	2.09	0.86
33:A9:2:LYS:HD2	33:A9:33:LYS:O	1.73	0.86
34:BA:340:U:H2'	34:BA:341:C:H6	1.40	0.86
34:BA:667:G:H4'	50:BR:51:HIS:CE1	2.10	0.86
35:BB:60:C:P	35:BB:61:C:C5	2.69	0.86
39:BG:124:GLY:O	39:BG:132:ARG:HD2	1.73	0.86
50:BR:39:LEU:CD2	50:BR:56:LEU:HD22	2.04	0.86
51:BS:67:THR:O	51:BS:70:ALA:HB3	1.75	0.86
1:AB:45:A:H1'	7:AG:76:ARG:NH1	1.89	0.86
1:AB:57:A:O2'	7:AG:13:MET:SD	2.32	0.86
2:AA:237:C:N4	2:AA:261:G:C6	2.42	0.86
2:AA:371:A:H2'	2:AA:372:G:N7	1.90	0.86
2:AA:1005:C:H1'	12:AM:21:ARG:HG3	1.56	0.86
2:AA:1084:A:OP1	9:AI:39:VAL:CB	2.23	0.86
2:AA:1326:U:O4'	2:AA:2010:G:N2	2.08	0.86
2:AA:1690:A:N3	2:AA:1690:A:H2'	1.88	0.86
2:AA:1949:G:H2'	2:AA:1950:G:C8	2.08	0.86
2:AA:2147:G:O2'	2:AA:2148:G:H5'	1.75	0.86
2:AA:2619:C:O3'	5:AE:248:SER:HA	1.75	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:171:ILE:HD13	3:AC:196:LEU:HD13	1.56	0.86
8:AH:53:ARG:NH1	8:AH:56:ASP:HA	1.91	0.86
10:AK:115:ILE:HG22	10:AK:116:GLU:N	1.90	0.86
14:AO:124:ASP:HB3	14:AO:130:ARG:NH2	1.90	0.86
18:AS:36:LEU:CD1	18:AS:51:LEU:HD22	2.04	0.86
25:A1:13:ARG:HD3	25:A1:16:LYS:HZ3	1.37	0.86
25:A1:69:ALA:HB3	25:A1:76:TYR:CZ	2.10	0.86
34:BA:243:A:O2'	34:BA:244:U:OP2	1.93	0.86
34:BA:808:C:H2'	34:BA:809:G:H8	1.40	0.86
34:BA:1230:C:C2'	34:BA:1231:G:H5'	2.05	0.86
37:BE:21:ARG:H	37:BE:21:ARG:CD	1.89	0.86
38:BF:64:VAL:O	38:BF:99:VAL:HB	1.75	0.86
38:BF:150:LYS:NZ	38:BF:152:ILE:HD11	1.89	0.86
46:BN:67:ASP:HA	46:BN:70:LYS:HD2	1.57	0.86
46:BN:100:ALA:C	46:BN:102:GLY:H	1.82	0.86
51:BS:3:LYS:HD2	51:BS:24:ALA:CB	2.05	0.86
54:BV:19:VAL:HG21	54:BV:43:GLU:O	1.75	0.86
2:AA:29:U:H2'	2:AA:30:G:C8	2.10	0.86
2:AA:295:G:C2	2:AA:344:G:C4	2.63	0.86
2:AA:871:U:C4'	15:AP:90:PHE:HE2	1.88	0.86
2:AA:984:A:H2'	2:AA:985:C:OP1	1.74	0.86
2:AA:1268:A:H2'	2:AA:1269:A:H8	1.38	0.86
2:AA:1518:C:H3'	2:AA:1519:G:C4'	2.05	0.86
2:AA:2378:A:O2'	16:AQ:30:GLY:HA3	1.76	0.86
2:AA:2587:A:C2'	2:AA:2588:G:H5'	2.05	0.86
2:AA:2741:A:H2'	2:AA:2742:C:O4'	1.75	0.86
4:AD:92:LEU:HD11	4:AD:102:TYR:CE2	2.09	0.86
4:AD:167:GLU:HG2	4:AD:182:MET:CE	2.05	0.86
4:AD:167:GLU:O	4:AD:170:TYR:O	1.93	0.86
4:AD:173:VAL:HB	4:AD:175:LEU:HD23	1.56	0.86
6:AF:82:GLN:N	6:AF:87:ARG:HH11	1.73	0.86
6:AF:83:ALA:O	6:AF:84:VAL:HG22	1.75	0.86
11:AL:39:CYS:O	11:AL:42:PHE:HB2	1.74	0.86
14:AO:67:ARG:NE	14:AO:67:ARG:H	1.73	0.86
16:AQ:111:PRO:HA	16:AQ:116:PHE:HD1	1.40	0.86
24:A0:52:ILE:CD1	24:A0:94:TYR:HB3	2.04	0.86
31:A7:41:GLN:O	31:A7:42:LEU:HG	1.75	0.86
34:BA:462:G:H21	51:BS:82:GLN:HE21	1.23	0.86
34:BA:922:G:H1'	34:BA:1398:A:H2	1.39	0.86
38:BF:138:VAL:HG12	38:BF:170:GLN:NE2	1.90	0.86
42:BJ:75:VAL:HG13	42:BJ:87:VAL:O	1.76	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:136:LYS:HZ1	42:BJ:137:LYS:HG3	1.38	0.86
44:BL:113:LYS:NZ	44:BL:119:ALA:HB1	1.90	0.86
45:BM:22:LYS:HZ1	45:BM:90:LEU:HB2	1.41	0.86
48:BP:90:LEU:O	48:BP:93:ARG:HB3	1.73	0.86
1:AB:43:C:H42	1:AB:45:A:N6	1.73	0.86
1:AB:56:G:H4'	1:AB:57:A:H5'	1.55	0.86
2:AA:616:A:H2'	2:AA:617:G:N3	1.89	0.86
2:AA:681:G:H1	2:AA:796:C:H42	1.22	0.86
2:AA:1530:G:H1'	2:AA:1542:G:C6	2.09	0.86
2:AA:1615:C:N4	2:AA:1617:C:C2	2.43	0.86
2:AA:1835:G:H1	2:AA:1905:C:N4	1.73	0.86
2:AA:1964:G:H4'	2:AA:1965:C:OP2	1.73	0.86
2:AA:2264:C:H42	2:AA:2276:G:H1	0.89	0.86
2:AA:2384:G:O2'	2:AA:2385:C:OP1	1.93	0.86
2:AA:2416:C:H2'	2:AA:2417:C:H5'	1.55	0.86
3:AC:210:ARG:HH11	3:AC:210:ARG:HG2	1.41	0.86
6:AF:149:LYS:HB2	6:AF:152:GLU:HG3	1.56	0.86
8:AH:102:LEU:CG	8:AH:114:ILE:HB	2.06	0.86
8:AH:116:PRO:HA	8:AH:120:LEU:HD12	1.58	0.86
11:AL:55:PRO:HD3	11:AL:73:PRO:CB	2.04	0.86
21:AV:4:THR:O	21:AV:33:ALA:HB1	1.75	0.86
28:A4:14:ILE:HG13	28:A4:39:VAL:HB	1.58	0.86
34:BA:32:A:H2'	34:BA:33:A:O4'	1.76	0.86
34:BA:1094:G:H2'	34:BA:1108:G:H22	1.41	0.86
37:BE:55:PHE:O	37:BE:58:ILE:HB	1.74	0.86
38:BF:178:LEU:O	38:BF:179:ARG:HB3	1.73	0.86
38:BF:187:ALA:HB3	38:BF:198:VAL:CG2	2.05	0.86
40:BH:84:PHE:HB2	40:BH:134:ALA:HB2	1.55	0.86
48:BP:66:LEU:O	48:BP:70:LEU:HB2	1.76	0.86
1:AB:57:A:H2	7:AG:17:ARG:HH11	1.19	0.86
2:AA:30:G:H2'	2:AA:31:C:H6	1.40	0.86
2:AA:530:G:N1	2:AA:2021:C:C3'	2.38	0.86
2:AA:783:A:C2	2:AA:785:G:C1'	2.56	0.86
2:AA:1471:A:N6	2:AA:1519:G:N2	2.22	0.86
2:AA:1475:G:H1	2:AA:1477:A:N6	1.73	0.86
2:AA:1520:U:C3'	2:AA:1521:G:H5''	2.03	0.86
2:AA:1952:A:C4	2:AA:1953:A:C2	2.63	0.86
2:AA:2000:G:H2'	2:AA:2001:A:H8	1.35	0.86
2:AA:2331:G:O3'	27:A3:70:ILE:HB	1.75	0.86
2:AA:2453:A:H4'	2:AA:2572:A:O2'	1.75	0.86
2:AA:2495:G:O3'	15:AP:101:MET:HE2	1.74	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:90:LEU:HD13	48:BP:3:ARG:NH1	1.90	0.86
8:AH:148:ARG:CZ	8:AH:163:TYR:CA	2.53	0.86
10:AK:7:LYS:HG3	10:AK:12:LYS:HZ2	1.38	0.86
14:AO:126:SER:OG	14:AO:129:ALA:HB2	1.74	0.86
15:AP:142:LYS:HE3	15:AP:143:VAL:N	1.91	0.86
18:AS:5:ALA:CB	18:AS:54:ALA:HB2	2.03	0.86
21:AV:14:LEU:CD2	21:AV:79:ILE:HG21	2.05	0.86
29:A5:15:LYS:NZ	29:A5:15:LYS:CB	2.36	0.86
34:BA:966:G:N2	35:BC:34:G:H5'	1.91	0.86
34:BA:1329:A:H5''	48:BP:29:ARG:HG3	1.55	0.86
37:BE:59:GLU:HB3	37:BE:221:LEU:HD21	0.91	0.86
39:BG:18:LYS:HG3	39:BG:33:MET:SD	2.14	0.86
39:BG:155:LEU:H	39:BG:158:ILE:HG13	1.41	0.86
55:BW:83:ARG:HA	55:BW:86:ARG:HD2	1.55	0.86
2:AA:95:G:H5'	22:AW:41:GLU:OE2	1.75	0.86
2:AA:353:G:H2'	2:AA:354:G:O5'	1.76	0.86
2:AA:600:G:C5'	6:AF:30:LEU:HD11	2.05	0.86
2:AA:873:G:H2'	2:AA:874:G:O4'	1.76	0.86
2:AA:142(A):A:C4'	12:AM:21:ARG:HH21	1.89	0.86
2:AA:1166:C:H2'	2:AA:1167:U:H6	1.38	0.86
2:AA:1668:A:H61	2:AA:1676:A:H61	0.87	0.86
2:AA:1795:C:N3	2:AA:1824:G:N2	2.24	0.86
2:AA:1829:A:N6	2:AA:1976:U:O2	2.08	0.86
2:AA:1863:G:H2'	2:AA:1864:U:C6	2.10	0.86
2:AA:1918:A:OP2	2:AA:1918:A:H3'	1.75	0.86
2:AA:1989:G:O2'	2:AA:1990:C:H5'	1.75	0.86
2:AA:2123:G:N1	2:AA:2175:C:C2	2.44	0.86
2:AA:2602:A:N1	35:BB:76:A:N7	2.23	0.86
2:AA:2855:C:H42	2:AA:2862:G:H1	1.23	0.86
3:AC:205:LYS:HG2	3:AC:206:GLY:N	1.89	0.86
4:AD:169:LYS:H	4:AD:169:LYS:HZ3	1.19	0.86
4:AD:174:ARG:HG2	4:AD:174:ARG:HH11	1.39	0.86
5:AE:44:TYR:HA	5:AE:309:PRO:CG	2.05	0.86
5:AE:80:ALA:HB1	5:AE:181:VAL:HG13	1.56	0.86
5:AE:201:VAL:O	5:AE:266:LYS:NZ	2.08	0.86
5:AE:233:ARG:O	5:AE:234:ARG:HG3	1.75	0.86
6:AF:1:MET:H3	6:AF:18:LEU:HD12	1.40	0.86
10:AK:31:PHE:CE1	10:AK:36:ALA:HB3	2.09	0.86
14:AO:69:ILE:O	14:AO:73:VAL:CB	2.22	0.86
18:AS:82:LEU:HD23	18:AS:98:LYS:CB	2.05	0.86
21:AV:163:ASP:CG	21:AV:164:PRO:HD2	2.01	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:21:ALA:HB1	25:A1:24:PHE:HZ	1.40	0.86
32:A8:5:LYS:O	32:A8:7:HIS:ND1	2.08	0.86
34:BA:410:G:H1'	34:BA:432:A:H61	1.41	0.86
34:BA:888:G:N2	34:BA:909:A:N6	2.22	0.86
35:BB:33:U:C6	35:BB:35:A:OP2	2.28	0.86
35:BB:41:U:C2	35:BB:42:G:C8	2.62	0.86
39:BG:43:HIS:ND1	39:BG:46:LYS:HE3	1.91	0.86
40:BH:109:ILE:HG22	40:BH:110:LEU:H	1.39	0.86
42:BJ:113:GLU:CG	42:BJ:118:VAL:HB	2.06	0.86
53:BU:70:ILE:HG22	53:BU:74:ARG:NE	1.91	0.86
54:BV:36:ARG:HE	54:BV:72:GLY:HA2	1.41	0.86
2:AA:139:G:C3'	2:AA:141(A):C:H1'	2.05	0.86
2:AA:145:G:H4'	19:AT:1:SER:HB2	1.56	0.86
2:AA:296:C:O2'	2:AA:297:C:H5'	1.74	0.86
2:AA:326:G:H1'	20:AU:7:GLN:HE22	1.38	0.86
2:AA:1084:A:OP1	9:AI:39:VAL:CA	2.23	0.86
2:AA:1434:A:H61	2:AA:1558:A:N6	1.74	0.86
2:AA:1442:G:N2	2:AA:1549:C:N3	2.23	0.86
2:AA:2009:G:OP1	18:AS:41:LYS:HE2	1.74	0.86
2:AA:2057:A:C4'	29:A5:8:LYS:HZ1	1.89	0.86
2:AA:2097:C:C2'	2:AA:2098:U:H5'	2.04	0.86
2:AA:2675:A:O2'	2:AA:2676:C:H5'	1.76	0.86
4:AD:175:LEU:HG	4:AD:180:VAL:HA	1.57	0.86
12:AM:38:VAL:HB	12:AM:103:VAL:HG22	1.58	0.86
14:AO:94:ARG:NH1	14:AO:120:LEU:HB2	1.89	0.86
15:AP:26:LYS:HG3	15:AP:28:ILE:HG13	1.57	0.86
25:A1:35:ALA:O	25:A1:38:THR:OG1	1.93	0.86
26:A2:61:VAL:HA	26:A2:98:ILE:HG13	1.56	0.86
28:A4:17:GLN:CA	28:A4:33:VAL:HB	2.06	0.86
34:BA:79:G:H22	34:BA:91:C:H1'	1.41	0.86
34:BA:166:G:O2'	34:BA:167:G:H5'	1.75	0.86
34:BA:570:G:H5'	34:BA:820:U:C1'	2.03	0.86
34:BA:821:G:H2'	34:BA:822:C:C6	2.11	0.86
34:BA:988:G:N2	34:BA:1016:A:H1'	1.91	0.86
34:BA:1021:G:C2	34:BA:1022:G:H1'	2.11	0.86
34:BA:1327:C:H5''	56:BX:20:LYS:HE2	1.56	0.86
38:BF:13:GLY:O	38:BF:14:ILE:HD13	1.75	0.86
39:BG:65:ARG:HD2	39:BG:72:GLU:OE2	1.76	0.86
39:BG:140:VAL:HB	39:BG:185:PHE:CD1	2.08	0.86
41:BI:49:ALA:CB	53:BU:80:PRO:HD3	2.06	0.86
50:BR:70:LEU:HD12	50:BR:70:LEU:C	2.01	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:404:C:H5'	2:AA:406:G:O4'	1.76	0.86
2:AA:1324:G:O2'	2:AA:1325:G:OP1	1.94	0.86
2:AA:1418:G:OP1	2:AA:1588:C:H4'	1.74	0.86
2:AA:2009:G:O2'	2:AA:2010:G:H5'	1.76	0.86
2:AA:2061:G:O2'	2:AA:2062:A:H5''	1.76	0.86
2:AA:2115:G:H4'	3:AC:126:LYS:CE	2.04	0.86
2:AA:2285:C:H1'	2:AA:2288:A:N7	1.91	0.86
2:AA:2710:C:O2'	2:AA:2711:A:H5'	1.75	0.86
2:AA:2719:G:H8	2:AA:2719:G:O5'	1.58	0.86
12:AM:12:VAL:C	12:AM:38:VAL:HG13	2.01	0.86
12:AM:54:VAL:HG22	12:AM:135:ILE:HD12	1.56	0.86
12:AM:80:LYS:O	12:AM:83:ILE:CG1	2.24	0.86
21:AV:94:VAL:CG1	21:AV:130:ILE:HG21	2.06	0.86
22:AW:18:ALA:O	22:AW:21:ASP:HB2	1.76	0.86
23:AX:38:GLU:CD	23:AX:38:GLU:H	1.81	0.86
24:A0:15:SER:HB2	24:A0:16:HIS:CE1	2.11	0.86
24:A0:51:LEU:HD21	24:A0:70:LEU:HD21	1.58	0.86
27:A3:49:GLN:H	27:A3:49:GLN:HE21	0.86	0.86
28:A4:14:ILE:C	28:A4:15:ILE:HD12	2.01	0.86
30:A6:21:TYR:CZ	30:A6:43:VAL:HG23	2.10	0.86
30:A6:28:ARG:HH11	30:A6:28:ARG:CB	1.88	0.86
34:BA:665:A:C2'	34:BA:725:G:N2	2.38	0.86
34:BA:878:G:H5''	43:BK:89:PRO:O	1.75	0.86
34:BA:894:G:H2'	34:BA:895:G:H8	1.40	0.86
45:BM:10:GLY:HA3	45:BM:16:LEU:CD2	2.05	0.86
45:BM:24:VAL:HA	45:BM:34:VAL:HG21	1.57	0.86
48:BP:48:LEU:HD22	48:BP:53:VAL:HG23	1.58	0.86
52:BT:31:LEU:HD12	52:BT:31:LEU:O	1.76	0.86
2:AA:357:A:C3'	2:AA:358:U:H5''	2.06	0.86
2:AA:740:U:O2'	2:AA:741:G:P	2.32	0.86
2:AA:774:A:H1'	2:AA:775:G:C8	2.11	0.86
2:AA:1043:C:H2'	2:AA:1044:G:H5'	1.56	0.86
2:AA:1085:A:H4'	9:AI:29:PHE:CD2	2.10	0.86
2:AA:1114:G:H21	2:AA:1115:G:H1'	1.38	0.86
2:AA:1140:C:H4'	2:AA:142(A):A:C6	2.10	0.86
2:AA:1152:C:H5''	25:A1:80:ILE:CG2	2.05	0.86
2:AA:1272:A:N7	2:AA:1618:A:H1'	1.89	0.86
2:AA:1301:A:N6	2:AA:1303:G:N3	2.24	0.86
2:AA:1364:G:H5''	2:AA:1809:A:N7	1.88	0.86
2:AA:1405:U:H2'	2:AA:1406:U:C5	2.10	0.86
2:AA:1456:G:H1	2:AA:2703:C:H41	0.86	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1475:G:N1	2:AA:1477:A:N6	2.24	0.86
2:AA:1809:A:O2'	2:AA:1810:A:H5'	1.74	0.86
2:AA:2121:G:N2	3:AC:168:THR:HG21	1.91	0.86
2:AA:2278:A:O2'	2:AA:2279:G:H5'	1.76	0.86
2:AA:2700:C:C3'	2:AA:2701:C:H5''	2.06	0.86
2:AA:2727:G:H4'	13:AN:70:ARG:CZ	2.05	0.86
4:AD:90:ILE:HG13	4:AD:105:ALA:H	1.41	0.86
4:AD:143:ILE:HD12	4:AD:143:ILE:N	1.90	0.86
6:AF:80:VAL:HG13	6:AF:81:PRO:CD	2.04	0.86
9:AI:12:LYS:HD2	9:AJ:82:GLY:HA3	1.56	0.86
9:AJ:115:LYS:HE2	9:AJ:127:LEU:HB3	1.58	0.86
10:AK:44:LEU:O	10:AK:47:LEU:HG	1.76	0.86
11:AL:124:ALA:HA	11:AL:127:ILE:CD1	2.05	0.86
13:AN:98:ILE:HG23	13:AN:99:PHE:N	1.89	0.86
15:AP:15:THR:CB	15:AP:20:ILE:HG23	2.06	0.86
16:AQ:35:VAL:HG11	16:AQ:37:ARG:CZ	2.05	0.86
16:AQ:65:ASP:C	16:AQ:66:LEU:HD12	2.00	0.86
22:AW:43:PRO:HB2	22:AW:46:ILE:H	1.40	0.86
23:AX:3:ARG:NE	23:AX:60:GLU:OXT	2.09	0.86
25:A1:109:LEU:O	25:A1:113:SER:OG	1.94	0.86
26:A2:19:VAL:HB	26:A2:21:ARG:HH12	1.40	0.86
34:BA:1497:G:H2'	34:BA:1498:U:C6	2.11	0.86
35:BB:34:G:N2	35:BB:35:A:H2	1.67	0.86
40:BH:147:ASP:HA	40:BH:150:ARG:HB2	1.58	0.86
42:BJ:104:LEU:CD2	42:BJ:104:LEU:H	1.89	0.86
46:BN:33:THR:C	46:BN:40:ILE:HD11	2.00	0.86
46:BN:65:ALA:O	46:BN:68:ALA:HB3	1.76	0.86
47:BO:113:ARG:C	47:BO:114:LYS:HG3	1.97	0.86
52:BT:2:PRO:O	52:BT:4:LYS:N	2.09	0.86
2:AA:138:G:N3	2:AA:138:G:C3'	2.36	0.85
2:AA:349:G:C8	2:AA:349:G:OP2	2.28	0.85
2:AA:857:C:N3	2:AA:920:G:N2	2.22	0.85
2:AA:976:C:H4'	2:AA:1156:A:N6	1.91	0.85
2:AA:1405:U:H3	2:AA:1597:A:H61	0.89	0.85
2:AA:1472:A:H61	2:AA:1518:C:H41	1.22	0.85
2:AA:1827:C:O2	2:AA:1827:C:H2'	1.72	0.85
2:AA:1936:A:H5'	2:AA:1937:A:N3	1.91	0.85
2:AA:1972:A:H2'	2:AA:1973:G:H8	1.36	0.85
2:AA:2195:C:O2	2:AA:2196:C:H1'	1.76	0.85
2:AA:2321:G:N2	2:AA:2322:A:H1'	1.91	0.85
2:AA:2779:U:O4'	2:AA:2781:A:N7	2.09	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:140:VAL:HG22	4:AD:191:VAL:HG12	1.54	0.85
7:AG:93:LEU:HD12	7:AG:94:ALA:H	0.74	0.85
8:AH:10:ILE:HG23	8:AH:14:VAL:CG1	2.06	0.85
15:AP:54:VAL:CG1	15:AP:56:ILE:HD13	2.05	0.85
28:A4:42:PHE:N	28:A4:57:ASP:OD2	2.09	0.85
34:BA:523:A:H61	47:BO:53:ARG:NH2	1.73	0.85
34:BA:581:G:H4'	50:BR:64:ARG:NH1	1.88	0.85
34:BA:981:U:H2'	34:BA:982:U:H5	1.38	0.85
34:BA:1132:C:H42	34:BA:1142:G:H1	1.24	0.85
34:BA:1280:A:O4'	45:BM:41:PRO:HG3	1.76	0.85
34:BA:1347:G:N7	44:BL:107:ARG:CZ	2.39	0.85
38:BF:112:SER:O	38:BF:116:VAL:HG23	1.75	0.85
40:BH:41:VAL:HG21	40:BH:113:ALA:HA	1.58	0.85
41:BI:24:GLU:OE2	41:BI:28:ARG:HD2	1.76	0.85
42:BJ:136:LYS:NZ	42:BJ:137:LYS:HG3	1.92	0.85
1:AB:32:C:H2'	1:AB:33:G:C8	2.11	0.85
1:AB:75:G:O6	1:AB:102:G:N2	2.08	0.85
1:AB:103:U:C2'	1:AB:104:A:H5'	2.07	0.85
2:AA:25:U:H3	2:AA:515:A:H61	1.20	0.85
2:AA:119:A:H4'	2:AA:120:U:H5'	1.57	0.85
2:AA:482:A:N3	2:AA:482:A:H2'	1.91	0.85
2:AA:844:C:C5	2:AA:845:G:N7	2.44	0.85
2:AA:873:G:H4'	15:AP:32:LYS:HB3	1.56	0.85
2:AA:1076:C:O2'	11:AL:91:GLU:CB	2.22	0.85
2:AA:1171:G:O4'	2:AA:1171:G:OP1	1.95	0.85
2:AA:1428:C:O2'	2:AA:1429:G:OP1	1.95	0.85
2:AA:1475:G:N1	2:AA:1477:A:C6	2.43	0.85
2:AA:1668:A:H1'	2:AA:1669:A:C2	2.11	0.85
2:AA:2607:G:O2'	2:AA:2608:G:H5'	1.76	0.85
4:AD:210:LYS:HA	4:AD:213:LYS:HG2	1.56	0.85
5:AE:271:ILE:HG23	5:AE:293:TYR:O	1.76	0.85
11:AL:24:VAL:HG12	11:AL:35:ILE:HG23	1.58	0.85
19:AT:11:THR:HG23	19:AT:14:ALA:CB	2.06	0.85
19:AT:50:GLU:HB2	19:AT:67:ARG:O	1.75	0.85
24:A0:20:LEU:HD13	24:A0:20:LEU:C	2.01	0.85
33:A9:19:ARG:HD2	33:A9:24:LEU:CD1	2.06	0.85
34:BA:92:C:O2'	34:BA:93:G:H5'	1.76	0.85
35:BB:59:U:C5	35:BB:59:U:P	2.69	0.85
37:BE:42:ILE:HG23	37:BE:43:ASP:N	1.90	0.85
39:BG:12:CYS:HA	39:BG:19:LEU:CB	2.05	0.85
44:BL:3:GLN:H	44:BL:3:GLN:HE21	1.22	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:7:LYS:HG3	45:BM:71:LEU:CD2	2.06	0.85
45:BM:23:ILE:HA	45:BM:85:LEU:HD21	1.57	0.85
45:BM:25:GLU:HA	45:BM:28:ARG:HD2	1.56	0.85
52:BT:45:HIS:CD2	52:BT:47:PRO:HG3	2.10	0.85
2:AA:35:G:N3	2:AA:454:A:H2	1.74	0.85
2:AA:80:G:N2	2:AA:106:C:N3	2.24	0.85
2:AA:389:G:O6	14:AO:54:PRO:HB3	1.76	0.85
2:AA:768:G:H2'	2:AA:769:G:C8	2.12	0.85
2:AA:1406:U:H2'	2:AA:1407:C:C6	2.11	0.85
2:AA:1407:C:O2'	2:AA:1408:C:H5'	1.75	0.85
2:AA:1451:C:C6	2:AA:1453:A:H4'	2.11	0.85
2:AA:2465:C:O2	2:AA:2485:G:N1	2.07	0.85
2:AA:2571:C:H5''	2:AA:2572:A:H5'	1.56	0.85
4:AD:144:GLU:HG2	4:AD:152:GLN:NE2	1.91	0.85
5:AE:71:THR:OG1	5:AE:299:SER:HA	1.75	0.85
5:AE:174:LEU:O	5:AE:177:ALA:CB	2.24	0.85
13:AN:1:MET:HB3	13:AN:67:ARG:NE	1.90	0.85
15:AP:43:PRO:HD3	21:AV:99:HIS:HE2	1.41	0.85
17:AR:50:GLU:O	17:AR:55:ALA:HB3	1.76	0.85
26:A2:49:GLU:HB3	26:A2:53:LYS:CD	2.06	0.85
30:A6:26:LYS:CE	32:A8:35:GLY:HA3	2.06	0.85
34:BA:194:C:C2'	34:BA:195:A:H5''	2.06	0.85
34:BA:292:G:N1	34:BA:308:C:N4	1.93	0.85
34:BA:391:G:OP1	51:BS:28:ARG:NH2	2.08	0.85
34:BA:560:U:O2'	34:BA:561:U:OP2	1.93	0.85
34:BA:782:A:N1	34:BA:801:U:H1'	1.90	0.85
34:BA:1034:G:H2'	34:BA:1035:A:C8	2.10	0.85
34:BA:1040:U:H2'	34:BA:1041:A:H8	1.39	0.85
34:BA:1403:C:H1'	34:BA:1500:A:C6	2.11	0.85
37:BE:212:GLN:HG3	37:BE:235:SER:OG	1.76	0.85
40:BH:76:ILE:HG23	40:BH:77:PRO:HD2	1.58	0.85
46:BN:32:ILE:HG22	46:BN:40:ILE:CD1	1.98	0.85
50:BR:24:SER:O	50:BR:28:GLN:HG2	1.76	0.85
51:BS:7:ALA:HB3	51:BS:18:ARG:HG3	1.57	0.85
2:AA:253:C:H2'	2:AA:254:G:H5'	1.58	0.85
2:AA:431:U:H6	2:AA:431:U:H3'	1.41	0.85
2:AA:741:G:H2'	2:AA:742:G:H8	1.41	0.85
2:AA:1143:A:C2	2:AA:1144:G:C4	2.64	0.85
2:AA:1510:A:C8	2:AA:1511:A:C6	2.65	0.85
2:AA:1592:C:H2'	2:AA:1593:G:C8	2.11	0.85
2:AA:2053:G:H2'	2:AA:2054:A:H8	1.42	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2468:G:N2	2:AA:2481:G:H2'	1.91	0.85
9:AI:10:ILE:HA	9:AI:13:LEU:HD12	1.56	0.85
9:AI:57:THR:HB	9:AJ:107:SER:OG	1.75	0.85
10:AK:29:PHE:CD2	10:AK:30:LEU:HG	2.11	0.85
10:AK:111:ASP:HB3	10:AK:114:LYS:CG	2.06	0.85
13:AN:58:VAL:HG12	13:AN:59:LYS:H	1.41	0.85
16:AQ:27:LEU:N	16:AQ:33:ARG:NH1	2.23	0.85
20:AU:19:ARG:O	20:AU:22:GLN:HB2	1.75	0.85
20:AU:46:ASP:O	20:AU:62:VAL:HB	1.77	0.85
23:AX:43:ILE:H	23:AX:43:ILE:HD12	1.37	0.85
26:A2:35:LEU:O	26:A2:60:VAL:HA	1.74	0.85
34:BA:229:U:H2'	34:BA:230:G:C8	2.10	0.85
34:BA:970:C:H42	48:BP:126:LYS:NZ	1.73	0.85
34:BA:1073:U:O2	34:BA:1102:A:N1	2.09	0.85
34:BA:1154:G:H2'	34:BA:1155:G:H8	1.39	0.85
34:BA:1276:G:H1'	34:BA:1282:C:O2'	1.75	0.85
34:BA:1452:C:H4'	34:BA:1453:G:C5'	2.05	0.85
35:BB:1:G:C5	35:BB:73:A:C2	2.64	0.85
38:BF:29:TYR:HE1	45:BM:65:LEU:HD11	1.39	0.85
40:BH:91:LEU:HD23	40:BH:92:LYS:N	1.90	0.85
52:BT:67:LYS:HA	52:BT:70:ARG:NH2	1.91	0.85
54:BV:62:ILE:HD12	54:BV:66:MET:HG3	1.56	0.85
1:AB:79:C:O2'	2:AA:861:A:N3	2.09	0.85
2:AA:135:G:H1'	2:AA:145:G:N2	1.91	0.85
2:AA:231:C:N4	2:AA:232:G:N2	2.23	0.85
2:AA:307:G:H22	2:AA:310:A:C5'	1.88	0.85
2:AA:612:G:H2'	2:AA:615:G:N3	1.92	0.85
2:AA:668:G:H5'	2:AA:669:G:OP2	1.74	0.85
2:AA:946:G:N2	2:AA:971:C:C2	2.44	0.85
2:AA:959:A:H2'	2:AA:960:A:C8	2.10	0.85
2:AA:1504:C:H2'	2:AA:1505:C:C6	2.11	0.85
2:AA:2089:U:H2'	2:AA:2090:G:H8	1.40	0.85
2:AA:2226:C:C2'	2:AA:2227:A:O4'	2.23	0.85
2:AA:2312:U:H2'	7:AG:72:LYS:HZ2	1.41	0.85
2:AA:2792:G:N2	2:AA:2804:C:C2	2.43	0.85
5:AE:226:HIS:HA	5:AE:229:GLN:CG	2.06	0.85
8:AH:58:LYS:HA	8:AH:61:ARG:HD2	1.55	0.85
9:AI:115:LYS:HE2	9:AI:127:LEU:HB3	1.58	0.85
15:AP:20:ILE:CG1	15:AP:21:SER:H	1.85	0.85
15:AP:29:ALA:CB	15:AP:66:ASN:HD21	1.89	0.85
18:AS:28:SER:OG	18:AS:31:GLU:HB3	1.77	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:9:HIS:ND1	19:AT:63:LYS:HG2	1.91	0.85
27:A3:35:ASN:HA	27:A3:68:VAL:HG22	1.59	0.85
32:A8:28:GLY:O	32:A8:29:LYS:HG3	1.76	0.85
33:A9:9:LYS:HE3	33:A9:16:VAL:HG23	1.56	0.85
34:BA:55:A:O2'	34:BA:56:U:H5'	1.75	0.85
34:BA:190(E):U:N3	52:BT:72:ARG:NH2	2.22	0.85
34:BA:824:C:H2'	34:BA:825:G:H8	1.38	0.85
34:BA:1209:C:H2'	34:BA:1210:C:H5'	1.59	0.85
34:BA:1347:G:H3'	44:BL:108:VAL:CA	2.05	0.85
34:BA:1428:A:H2'	34:BA:1429:C:H6	1.38	0.85
35:BB:11:C:N4	35:BB:12:U:O4	2.08	0.85
35:BC:16:U:H4'	35:BC:17:U:H5'	1.59	0.85
37:BE:16:HIS:NE2	37:BE:213:LEU:HD13	1.91	0.85
37:BE:25:ASN:ND2	37:BE:27:LYS:HB2	1.92	0.85
38:BF:121:ALA:O	38:BF:124:ILE:HB	1.75	0.85
43:BK:6:ILE:CD1	43:BK:85:ARG:HD3	2.06	0.85
43:BK:39:LEU:HB3	43:BK:45:ILE:HG21	1.55	0.85
55:BW:73:HIS:H	55:BW:76:ALA:HB3	1.39	0.85
2:AA:1:G:H1	2:AA:2902:C:N4	1.73	0.85
2:AA:35:G:N3	2:AA:454:A:C2	2.44	0.85
2:AA:270(A):A:H2'	2:AA:370:G:H5''	1.59	0.85
2:AA:882:G:N2	2:AA:894:C:N3	2.24	0.85
2:AA:1128:A:N6	2:AA:2518:A:N1	2.25	0.85
2:AA:1338:G:H2'	2:AA:1339:G:H8	1.41	0.85
2:AA:1468:C:N4	2:AA:1524:G:N1	2.24	0.85
2:AA:1492:G:N3	2:AA:1493:C:C4	2.44	0.85
2:AA:1568:G:OP1	4:AD:60:GLN:CA	2.24	0.85
2:AA:1995:U:C5	2:AA:1996:C:C5	2.65	0.85
2:AA:2287:A:N1	2:AA:2289:G:H1'	1.92	0.85
2:AA:2465:C:N3	2:AA:2485:G:O6	2.09	0.85
2:AA:2749:A:H1'	8:AH:62:ALA:HB2	1.58	0.85
7:AG:79:MET:HA	7:AG:82:GLU:CD	2.01	0.85
11:AL:77:PHE:O	11:AL:80:LYS:HB3	1.75	0.85
16:AQ:35:VAL:HG13	16:AQ:103:ASP:CG	2.02	0.85
20:AU:31:LEU:HB3	20:AU:101:LEU:HD12	1.57	0.85
30:A6:11:LYS:HE2	30:A6:26:LYS:HE2	1.59	0.85
34:BA:421:U:C2	38:BF:127:ARG:CZ	2.60	0.85
34:BA:429:U:C2'	39:BG:22:LYS:HZ1	1.90	0.85
34:BA:591:U:OP1	43:BK:30:ARG:NH2	2.08	0.85
34:BA:726:C:N3	34:BA:731:G:N2	2.25	0.85
34:BA:1213:A:C2	34:BA:1215:G:H1'	2.11	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BI:75:LEU:CD1	41:BI:79:LEU:HD21	2.07	0.85
43:BK:26:VAL:HG22	43:BK:27:PRO:CD	2.04	0.85
43:BK:29:SER:CB	43:BK:32:LYS:NZ	2.38	0.85
46:BN:80:VAL:O	46:BN:106:LYS:HB2	1.77	0.85
51:BS:10:GLY:HA3	51:BS:14:ASN:O	1.76	0.85
55:BW:54:LYS:CA	55:BW:57:ARG:HD2	2.07	0.85
1:AB:25:A:O2'	1:AB:26:A:H5'	1.74	0.85
1:AB:89:G:H2'	1:AB:89(A):A:C8	2.10	0.85
2:AA:1:G:H1	2:AA:2902:C:H42	1.19	0.85
2:AA:347:A:C8	2:AA:347:A:H3'	2.12	0.85
2:AA:566:U:H3'	2:AA:567:A:H8	1.40	0.85
2:AA:720:C:O2'	2:AA:721:C:H5'	1.76	0.85
2:AA:996:A:O3'	25:A1:93:LYS:HG2	1.77	0.85
2:AA:1353:A:N1	2:AA:1378:A:N1	2.25	0.85
2:AA:1829:A:C2	2:AA:1830:C:C1'	2.59	0.85
2:AA:1930:G:H2'	2:AA:1931:U:OP2	1.76	0.85
2:AA:2023:G:H2'	2:AA:2024:G:H8	1.38	0.85
2:AA:2103:C:H42	2:AA:2186:G:H1	0.86	0.85
2:AA:2120:G:H8	2:AA:2120:G:OP1	1.59	0.85
2:AA:2232:U:O2'	2:AA:2233:U:H5'	1.77	0.85
2:AA:2640:G:O3'	12:AM:70:PHE:HD2	1.59	0.85
2:AA:2648:C:H42	2:AA:2672:G:H1	0.85	0.85
5:AE:269:ILE:HD12	5:AE:269:ILE:N	1.91	0.85
6:AF:223:LEU:HD21	6:AF:235:PHE:CZ	2.12	0.85
8:AH:29:LYS:HE3	8:AH:81:GLY:N	1.92	0.85
9:AJ:119:GLU:HA	9:AJ:123:ALA:O	1.75	0.85
13:AN:35:ILE:HD12	13:AN:35:ILE:N	1.92	0.85
13:AN:64:ARG:HG3	13:AN:79:PHE:HD1	1.40	0.85
16:AQ:23:ARG:HH22	16:AQ:48:VAL:CG2	1.89	0.85
18:AS:10:VAL:HB	18:AS:101:SER:O	1.77	0.85
34:BA:80:G:H3'	34:BA:81:U:H5'	1.58	0.85
34:BA:92:C:H2'	34:BA:93:G:C8	2.10	0.85
34:BA:219:C:H6	34:BA:219:C:H3'	1.41	0.85
34:BA:250:A:H2	34:BA:274:A:N1	1.75	0.85
34:BA:714:G:H1'	34:BA:777:A:C8	2.11	0.85
34:BA:975:A:O2'	34:BA:976:G:OP2	1.95	0.85
34:BA:1060:C:C5	38:BF:2:GLY:HA3	2.12	0.85
34:BA:1194:U:H4'	40:BH:22:GLY:O	1.77	0.85
34:BA:1305:G:H5'	56:BX:4:GLY:HA3	1.58	0.85
34:BA:1346:A:H5'	44:BL:120:ARG:HH12	1.41	0.85
35:BC:15:G:H22	35:BC:48:C:N4	1.73	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:38:A:H2'	35:BC:39:U:H5'	1.57	0.85
43:BK:46:LYS:HZ1	43:BK:65:TYR:H	1.23	0.85
45:BM:16:LEU:HD22	45:BM:94:VAL:CG2	2.07	0.85
55:BW:49:ALA:O	55:BW:53:LEU:HG	1.74	0.85
2:AA:245:G:O2'	2:AA:246:C:H5'	1.76	0.85
2:AA:295:G:N2	2:AA:344:G:H1'	1.92	0.85
2:AA:443:A:H1'	2:AA:1201:C:O4'	1.75	0.85
2:AA:775:G:H21	2:AA:787:U:C2'	1.86	0.85
2:AA:873:G:H5'	15:AP:32:LYS:N	1.91	0.85
2:AA:975:G:N1	2:AA:976:C:C6	2.44	0.85
2:AA:1500:G:N2	4:AD:97:ASP:OD2	2.10	0.85
2:AA:2285:C:H5	30:A6:28:ARG:NH2	1.72	0.85
2:AA:2553:G:C2	2:AA:2583:G:O2'	2.29	0.85
4:AD:144:GLU:HB3	4:AD:188:ARG:O	1.77	0.85
5:AE:76:PRO:HA	5:AE:292:PRO:CG	2.06	0.85
10:AK:111:ASP:C	10:AK:112:LYS:HD3	2.01	0.85
12:AM:38:VAL:O	12:AM:103:VAL:HA	1.76	0.85
13:AN:26:GLY:HA3	13:AN:30:ARG:CZ	2.06	0.85
14:AO:94:ARG:HH11	14:AO:120:LEU:N	1.74	0.85
15:AP:56:ILE:HD11	15:AP:115:SER:OG	1.76	0.85
22:AW:43:PRO:C	22:AW:45:ARG:N	2.19	0.85
34:BA:553:A:H2'	34:BA:554:C:C6	2.12	0.85
34:BA:1073:U:H3	34:BA:1102:A:H61	1.23	0.85
34:BA:1399:C:N4	34:BA:1502:A:N7	2.24	0.85
35:BB:8:U:H1'	35:BB:48:C:H1'	1.59	0.85
35:BC:52:U:H3	35:BC:62:A:N6	1.74	0.85
38:BF:10:PHE:CE1	38:BF:178:LEU:HD13	2.11	0.85
43:BK:25:ASP:HB3	43:BK:58:TYR:CE2	2.11	0.85
45:BM:7:LYS:HG3	45:BM:71:LEU:HD21	1.58	0.85
55:BW:62:LEU:N	55:BW:62:LEU:HD23	1.91	0.85
1:AB:55:U:H2'	1:AB:56:G:C8	2.11	0.85
2:AA:295:G:OP1	2:AA:338:G:C2	2.29	0.85
2:AA:326:G:H2'	2:AA:327:G:H8	1.39	0.85
2:AA:663:G:H21	2:AA:940:G:P	2.00	0.85
2:AA:993:G:H1'	2:AA:1162:G:N2	1.91	0.85
2:AA:1492:G:N2	2:AA:1499:C:H42	1.74	0.85
2:AA:1554:A:N6	2:AA:1626:G:OP2	2.09	0.85
2:AA:1900:A:C2	2:AA:1970:A:C6	2.64	0.85
2:AA:1996:C:H2'	2:AA:1997:G:C5'	2.07	0.85
2:AA:2405:G:H2'	2:AA:2411:A:N6	1.90	0.85
3:AC:36:LYS:NZ	3:AC:37:PHE:H	1.74	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:42:ALA:N	5:AE:189:MET:SD	2.50	0.85
6:AF:28:SER:HA	6:AF:31:ILE:CD1	2.06	0.85
6:AF:193:LEU:HB2	6:AF:233:THR:CG2	2.07	0.85
10:AK:81:ALA:CB	10:AK:89:LEU:HD22	2.06	0.85
15:AP:28:ILE:HD11	15:AP:89:PRO:CG	2.06	0.85
23:AX:43:ILE:HD12	23:AX:43:ILE:N	1.92	0.85
24:A0:77:ARG:HH11	24:A0:77:ARG:CG	1.89	0.85
32:A8:62:LEU:CB	32:A8:63:PRO:HD3	2.07	0.85
34:BA:68:G:C5'	34:BA:171:A:H1'	2.06	0.85
34:BA:720:C:C5	34:BA:721:G:H2'	2.12	0.85
34:BA:787:A:N6	34:BA:793:U:OP2	2.09	0.85
34:BA:1060:C:C4	38:BF:2:GLY:HA3	2.12	0.85
35:BB:49:C:N4	35:BB:65:G:H1	1.73	0.85
39:BG:76:ARG:O	39:BG:79:PHE:HB3	1.76	0.85
48:BP:55:ARG:HH21	48:BP:56:LEU:CD2	1.90	0.85
49:BQ:40:CYS:HB2	49:BQ:42:ILE:HB	1.57	0.85
51:BS:20:VAL:HG13	51:BS:34:GLU:O	1.77	0.85
2:AA:107:C:H5''	2:AA:293:U:H1'	1.59	0.85
2:AA:138:G:H8	19:AT:42:GLU:OE1	1.60	0.85
2:AA:246:C:N4	2:AA:252:G:N1	2.21	0.85
2:AA:869:G:H1	2:AA:908:C:H42	0.88	0.85
2:AA:894:C:H2'	2:AA:895:U:H6	1.42	0.85
2:AA:984:A:H3'	2:AA:985:C:H5	1.39	0.85
2:AA:1128:A:N6	2:AA:2518:A:N6	2.24	0.85
2:AA:1283:G:N2	2:AA:1285:G:H2'	1.90	0.85
2:AA:1301:A:H5'	2:AA:1607:C:N4	1.91	0.85
2:AA:1353:A:O2'	2:AA:1354:A:H5'	1.76	0.85
2:AA:1649:G:C2	2:AA:1650:G:N7	2.45	0.85
2:AA:1670:C:O2'	2:AA:1671:U:H5'	1.77	0.85
2:AA:2626:C:H6	2:AA:2626:C:O5'	1.58	0.85
2:AA:2635:C:H42	2:AA:2783:G:H1	0.86	0.85
2:AA:2815:C:H5'	29:A5:29:ASN:ND2	1.92	0.85
3:AC:59:ARG:NH1	3:AC:164:ARG:NH1	2.25	0.85
5:AE:208:LYS:H	5:AE:257:GLY:HA3	1.40	0.85
5:AE:247:ARG:HB3	5:AE:249:THR:HG23	1.58	0.85
8:AH:11:PRO:O	8:AH:14:VAL:HG23	1.75	0.85
8:AH:143:LEU:HD23	8:AH:144:ALA:N	1.89	0.85
8:AH:148:ARG:HH22	8:AH:164:GLU:H	1.21	0.85
11:AL:100:VAL:HG12	11:AL:101:THR:H	1.41	0.85
13:AN:9:LYS:O	13:AN:83:ALA:HB1	1.76	0.85
21:AV:4:THR:C	21:AV:33:ALA:HB1	2.01	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:148:THR:HG22	21:AV:168:VAL:N	1.91	0.85
34:BA:640:A:H2'	34:BA:641:U:H5'	1.59	0.85
34:BA:1274:G:H2'	34:BA:1275:A:H8	1.42	0.85
34:BA:1315:U:H3'	34:BA:1316:G:C8	2.12	0.85
38:BF:58:GLU:HB2	38:BF:65:ALA:CB	2.07	0.85
42:BJ:74:GLU:HG2	42:BJ:75:VAL:N	1.90	0.85
42:BJ:106:GLN:CA	42:BJ:109:ASN:HD22	1.88	0.85
42:BJ:106:GLN:O	42:BJ:110:GLN:HG2	1.76	0.85
43:BK:46:LYS:NZ	43:BK:64:LYS:HA	1.92	0.85
46:BN:84:VAL:HG21	53:BU:88:LYS:HZ3	1.35	0.85
46:BN:92:GLU:HG3	46:BN:96:ARG:CD	2.07	0.85
49:BQ:44:LEU:HG	49:BQ:45:ARG:N	1.89	0.85
54:BV:45:VAL:HG22	54:BV:67:VAL:HG21	1.58	0.85
2:AA:255:A:C2	2:AA:256:A:C4	2.65	0.84
2:AA:519:U:C4'	18:AS:75:TYR:HB3	2.07	0.84
2:AA:684:G:C6	2:AA:775:G:N7	2.44	0.84
2:AA:1718:G:N2	2:AA:1742:C:C2	2.45	0.84
2:AA:2059:A:H2	2:AA:2503:A:H62	0.90	0.84
2:AA:2330:G:H22	2:AA:2385:C:N4	1.74	0.84
6:AF:240:LEU:HA	6:AF:243:VAL:HG23	1.58	0.84
7:AG:21:VAL:HG13	7:AG:132:VAL:CG2	2.06	0.84
12:AM:21:ARG:H	12:AM:21:ARG:CD	1.90	0.84
15:AP:26:LYS:HZ3	15:AP:90:PHE:HE1	1.17	0.84
20:AU:17:HIS:O	20:AU:20:HIS:HB3	1.76	0.84
25:A1:89:ASP:OD1	26:A2:52:GLY:N	2.10	0.84
26:A2:35:LEU:N	26:A2:60:VAL:HG13	1.90	0.84
28:A4:17:GLN:HA	28:A4:33:VAL:CB	2.07	0.84
31:A7:21:ARG:NH1	31:A7:43:THR:HG23	1.92	0.84
34:BA:826:C:H4'	43:BK:12:ARG:HG2	1.57	0.84
34:BA:1040:U:H2'	34:BA:1041:A:C8	2.12	0.84
34:BA:1118:C:OP1	44:BL:104:ARG:CB	2.19	0.84
37:BE:118:LEU:HD22	37:BE:142:LEU:CB	2.06	0.84
40:BH:89:ILE:CG1	40:BH:131:ILE:HD12	2.07	0.84
42:BJ:126:ASP:C	42:BJ:129:GLU:HB2	2.01	0.84
1:AB:100:G:H2'	1:AB:101:A:H8	1.42	0.84
2:AA:120:U:O2'	2:AA:121:G:H5''	1.77	0.84
2:AA:292:C:N3	2:AA:348:G:O6	2.09	0.84
2:AA:452:G:C3'	2:AA:453:C:H5''	2.07	0.84
2:AA:531:C:N4	25:A1:38:THR:CG2	2.39	0.84
2:AA:695:G:O2'	2:AA:696:G:H5'	1.77	0.84
2:AA:775:G:C2'	2:AA:794:G:N7	2.39	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:806:C:H2'	2:AA:807:U:H6	1.40	0.84
2:AA:851:U:O2'	23:AX:45:GLY:HA3	1.77	0.84
2:AA:1013:C:H2'	2:AA:1014:U:C6	2.11	0.84
2:AA:1492:G:N2	2:AA:1498:C:N3	2.24	0.84
2:AA:1786:A:N1	2:AA:1938:A:N1	2.25	0.84
2:AA:1790:C:H5''	2:AA:1828:G:N1	1.92	0.84
2:AA:2055:C:H4'	2:AA:2056:G:H5''	1.58	0.84
4:AD:116:MET:O	4:AD:117:SER:OG	1.94	0.84
5:AE:317:PRO:O	5:AE:320:GLN:HG3	1.76	0.84
6:AF:6:TYR:OH	6:AF:234:VAL:HG12	1.77	0.84
15:AP:127:ASN:HB2	15:AP:128:PRO:CD	2.03	0.84
21:AV:69:VAL:HG13	21:AV:81:VAL:HA	1.58	0.84
28:A4:11:PRO:HA	28:A4:40:HIS:CD2	2.12	0.84
28:A4:21:VAL:HG12	28:A4:22:MET:N	1.92	0.84
31:A7:30:ILE:HA	31:A7:33:ARG:CG	2.06	0.84
34:BA:362:G:P	47:BO:34:ARG:NH2	2.49	0.84
34:BA:964:A:N3	34:BA:969:A:H1'	1.91	0.84
34:BA:997:U:O4	34:BA:1044:A:N1	2.11	0.84
34:BA:1305:G:C5'	56:BX:5:ASP:H	1.90	0.84
34:BA:1443:G:H5''	34:BA:1446:A:H5'	1.57	0.84
35:BB:59:U:N3	35:BB:60:C:N3	2.24	0.84
38:BF:138:VAL:HG22	38:BF:151:VAL:CG2	2.06	0.84
39:BG:179:GLU:O	39:BG:181:MET:N	2.10	0.84
43:BK:46:LYS:HB2	43:BK:63:LEU:O	1.76	0.84
49:BQ:24:CYS:HB3	49:BQ:29:ARG:N	1.92	0.84
53:BU:38:GLU:O	53:BU:42:ARG:HG3	1.77	0.84
2:AA:270(I):G:N2	2:AA:270(Q):C:N3	2.23	0.84
2:AA:343:C:O2	2:AA:344:G:N3	2.07	0.84
2:AA:880:G:C2'	2:AA:881:G:H5'	2.08	0.84
2:AA:1151:G:C4'	25:A1:81:ASN:HD21	1.89	0.84
2:AA:1439:A:C2'	2:AA:1440:G:H5'	2.06	0.84
2:AA:1450:C:N4	2:AA:1461:G:N1	2.12	0.84
2:AA:1912:A:N7	2:AA:1918:A:H2	1.76	0.84
2:AA:2364:C:H1'	27:A3:32:LYS:CE	2.06	0.84
4:AD:145:LEU:H	4:AD:152:GLN:HB2	1.41	0.84
5:AE:45:LYS:HE3	5:AE:303:PRO:CG	2.08	0.84
5:AE:45:LYS:NZ	5:AE:303:PRO:O	2.11	0.84
5:AE:221:LYS:HZ1	5:AE:233:ARG:HG2	1.37	0.84
8:AH:40:MET:HB2	8:AH:64:HIS:NE2	1.93	0.84
12:AM:19:MET:SD	12:AM:22:VAL:HB	2.16	0.84
18:AS:23:LEU:HD21	29:A5:27:ALA:HB2	1.60	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:19:ILE:HG13	21:AV:79:ILE:HG23	1.57	0.84
24:A0:34:ILE:O	24:A0:113:LEU:HD22	1.77	0.84
25:A1:50:ARG:HH12	26:A2:74:TYR:HB3	1.42	0.84
28:A4:56:VAL:CG1	28:A4:57:ASP:H	1.91	0.84
34:BA:15:G:C2'	34:BA:16:A:H8	1.89	0.84
34:BA:571:U:H3'	34:BA:572:A:C5'	2.06	0.84
34:BA:716:A:O2'	34:BA:717:C:H5'	1.75	0.84
35:BC:69:U:O2'	35:BC:70:C:H5'	1.76	0.84
53:BU:29:PHE:HE1	53:BU:36:ASN:OD1	1.59	0.84
53:BU:74:ARG:HD2	53:BU:74:ARG:H	1.41	0.84
2:AA:116:C:H2'	2:AA:117:G:H8	1.42	0.84
2:AA:270(C):C:H2'	2:AA:270(D):C:C6	2.13	0.84
2:AA:273(D):C:O2'	2:AA:273(E):U:H5'	1.77	0.84
2:AA:656:G:H2'	2:AA:657:U:O4'	1.76	0.84
2:AA:900:A:C8	2:AA:901:A:C8	2.65	0.84
2:AA:1026:U:H6	2:AA:1026:U:C5'	1.89	0.84
2:AA:1171:G:H1	2:AA:1179:C:H42	1.21	0.84
2:AA:2218:G:O3'	4:AD:184:LEU:HD13	1.76	0.84
2:AA:2553:G:H8	2:AA:2553:G:H3'	1.39	0.84
2:AA:2675:A:H5'	13:AN:30:ARG:N	1.91	0.84
2:AA:2832:U:O2'	2:AA:2834:G:N3	2.09	0.84
3:AC:77:ILE:HG22	3:AC:119:VAL:HG21	1.60	0.84
3:AC:140:PRO:C	3:AC:142:ALA:H	1.84	0.84
5:AE:193:PHE:CE2	5:AE:199:ALA:CB	2.60	0.84
6:AF:239:ALA:O	6:AF:242:GLU:N	2.11	0.84
7:AG:76:ARG:O	7:AG:80:ALA:CB	2.26	0.84
15:AP:65:ARG:HH22	15:AP:87:LYS:N	1.75	0.84
16:AQ:114:LYS:O	16:AQ:117:ALA:HB3	1.78	0.84
17:AR:23:HIS:NE2	17:AR:27:ALA:HB3	1.93	0.84
20:AU:23:VAL:HG23	20:AU:67:LEU:CD2	2.05	0.84
26:A2:7:THR:O	26:A2:8:GLY:C	2.20	0.84
26:A2:78:VAL:CB	26:A2:80:TYR:HD1	1.88	0.84
29:A5:11:THR:CG2	29:A5:19:ARG:HH22	1.90	0.84
30:A6:42:PRO:HD2	30:A6:47:HIS:O	1.77	0.84
34:BA:872:A:HO2'	34:BA:873:A:H3'	1.40	0.84
34:BA:941:G:H1	34:BA:1342:C:H42	1.24	0.84
34:BA:961:U:O2'	34:BA:962:C:H5'	1.77	0.84
34:BA:984:C:N4	34:BA:1221:G:H1	1.74	0.84
34:BA:1192:C:N4	34:BA:1193:G:C5	2.45	0.84
37:BE:9:GLU:HB2	37:BE:217:ARG:NH1	1.91	0.84
37:BE:21:ARG:CA	37:BE:39:ILE:HG12	2.06	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:14:ARG:O	39:BG:14:ARG:HD3	1.77	0.84
39:BG:100:ARG:O	39:BG:104:VAL:HG23	1.77	0.84
40:BH:10:MET:HA	40:BH:32:VAL:CG2	2.07	0.84
40:BH:110:LEU:HA	40:BH:113:ALA:HB3	1.58	0.84
42:BJ:104:LEU:HD22	42:BJ:134:ALA:HB1	1.57	0.84
43:BK:6:ILE:CD1	43:BK:85:ARG:HH11	1.91	0.84
43:BK:23:SER:O	43:BK:24:THR:HB	1.77	0.84
43:BK:97:VAL:HG22	43:BK:98:LYS:H	1.41	0.84
2:AA:6:A:H5''	12:AM:4:ALA:N	1.91	0.84
2:AA:593:G:C1'	32:A8:3:LYS:HZ2	1.91	0.84
2:AA:974(A):C:H1'	2:AA:989:G:H1	1.40	0.84
2:AA:1083:U:C2'	9:AI:37:VAL:CA	2.45	0.84
2:AA:1664:A:H8	2:AA:1664:A:O5'	1.60	0.84
2:AA:1759:A:C2'	2:AA:1760:A:O5'	2.25	0.84
2:AA:2353:G:N1	2:AA:2364:C:N4	2.22	0.84
2:AA:2805:G:H8	2:AA:2807:G:O4'	1.60	0.84
5:AE:105:HIS:CB	5:AE:108:LEU:HG	2.06	0.84
8:AH:106:VAL:O	8:AH:106:VAL:HG12	1.75	0.84
10:AK:114:LYS:HE2	10:AK:133:LEU:HA	1.59	0.84
15:AP:48:ASN:O	15:AP:121:ASP:HB3	1.77	0.84
15:AP:54:VAL:HG12	15:AP:56:ILE:HD13	1.59	0.84
19:AT:56:ASN:HD21	19:AT:62:LYS:HE3	1.41	0.84
26:A2:69:ILE:HG13	26:A2:91:THR:CG2	2.08	0.84
30:A6:54:LYS:HA	30:A6:54:LYS:HZ2	1.43	0.84
34:BA:193:C:O4'	55:BW:60:GLU:HG2	1.77	0.84
34:BA:363:A:C5	47:BO:31:PRO:HD2	2.13	0.84
34:BA:520:A:C3'	34:BA:521:G:H5''	2.07	0.84
34:BA:1378:C:H2'	34:BA:1378:C:O2	1.76	0.84
34:BA:1513:A:H2'	34:BA:1514:C:C6	2.12	0.84
37:BE:111:ARG:O	37:BE:114:ARG:HB3	1.77	0.84
39:BG:191:ARG:HD3	39:BG:191:ARG:O	1.78	0.84
43:BK:61:VAL:HG12	43:BK:62:TYR:N	1.90	0.84
43:BK:82:HIS:O	43:BK:137:VAL:HA	1.76	0.84
43:BK:100:ILE:HG22	43:BK:101:PRO:HD2	1.58	0.84
43:BK:126:LYS:NZ	43:BK:127:LEU:HD23	1.91	0.84
51:BS:20:VAL:HG11	51:BS:32:TYR:CD2	2.13	0.84
2:AA:136:G:O6	2:AA:143:C:N3	2.11	0.84
2:AA:223:A:H4'	2:AA:223:A:OP2	1.77	0.84
2:AA:265:A:N3	2:AA:266:G:H1'	1.92	0.84
2:AA:371:A:H5''	2:AA:423:A:C8	2.13	0.84
2:AA:397:G:OP2	28:A4:10:VAL:HG11	1.78	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:445:C:P	25:A1:2:PRO:HD2	2.18	0.84
2:AA:566:U:C6	2:AA:567:A:N7	2.45	0.84
2:AA:786:C:O2'	2:AA:787:U:C5'	2.25	0.84
2:AA:1020:A:O4'	12:AM:49:ARG:NH2	2.10	0.84
2:AA:142(A):A:C4'	12:AM:21:ARG:NH2	2.37	0.84
2:AA:1248:G:O2'	2:AA:1249:U:OP1	1.96	0.84
2:AA:1270:C:H4'	2:AA:1271:G:H5''	0.88	0.84
2:AA:1286:A:N3	2:AA:1329:U:C4	2.45	0.84
2:AA:1301:A:H62	2:AA:1303:G:H1'	1.43	0.84
2:AA:1913:A:C8	2:AA:1918:A:N1	2.46	0.84
2:AA:1992:G:C6	2:AA:1997:G:C4	2.65	0.84
2:AA:1992:G:N2	2:AA:1995:U:C5	2.46	0.84
2:AA:2058:A:H2'	2:AA:2059:A:H8	1.40	0.84
2:AA:2346:A:C4'	2:AA:2383:G:O4'	2.26	0.84
2:AA:2346:A:H4'	2:AA:2383:G:O4'	1.78	0.84
2:AA:2802:G:H2'	2:AA:2803:C:H6	1.42	0.84
2:AA:2810:A:H62	2:AA:2891:G:N2	1.74	0.84
2:AA:2865:U:C5	2:AA:2866:U:H5	1.94	0.84
3:AC:133:PRO:HA	3:AC:172:HIS:NE2	1.92	0.84
4:AD:164:LEU:HD13	4:AD:174:ARG:HH12	1.43	0.84
5:AE:68:VAL:HG13	5:AE:69:PRO:HD2	1.59	0.84
5:AE:201:VAL:CG2	5:AE:311:PHE:HB3	2.07	0.84
10:AK:79:ILE:HD12	10:AK:79:ILE:N	1.93	0.84
10:AK:111:ASP:CG	10:AK:112:LYS:N	2.35	0.84
12:AM:10:VAL:CG1	12:AM:36:VAL:HG13	2.08	0.84
12:AM:108:PRO:HG2	12:AM:109:TYR:CD1	2.11	0.84
13:AN:98:ILE:HG22	13:AN:119:PRO:HD3	1.57	0.84
18:AS:5:ALA:HB3	18:AS:105:VAL:CG2	2.07	0.84
21:AV:174:PRO:O	21:AV:175:ARG:NH1	2.10	0.84
31:A7:32:ALA:HA	31:A7:35:ARG:HG3	1.58	0.84
34:BA:163:C:O2'	34:BA:164:U:H5'	1.76	0.84
34:BA:426:G:H2'	34:BA:427:U:C6	2.13	0.84
34:BA:551:U:H5'	47:BO:119:LYS:HE2	1.58	0.84
34:BA:640:A:C2'	34:BA:641:U:H5'	2.07	0.84
34:BA:828:A:C6	34:BA:859:A:O4'	2.30	0.84
34:BA:1081:G:OP2	40:BH:27:ARG:HD2	1.77	0.84
34:BA:1196:U:H5'	34:BA:1197:G:C5'	2.07	0.84
34:BA:1339:A:C2'	34:BA:1340:A:H5'	2.07	0.84
35:BB:34:G:H8	35:BB:34:G:O5'	1.59	0.84
36:B1:30:U:H2'	36:B1:31:G:H5'	1.60	0.84
43:BK:10:LEU:HA	43:BK:13:ILE:HD12	1.57	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BL:118:LYS:O	44:BL:120:ARG:N	2.11	0.84
48:BP:78:ILE:HA	48:BP:88:ARG:HH21	1.41	0.84
1:AB:24:G:O6	1:AB:56:G:H2'	1.77	0.84
2:AA:27:G:N2	2:AA:512:G:H2'	1.92	0.84
2:AA:388:G:H2'	2:AA:390:A:C5	2.13	0.84
2:AA:640:C:N4	2:AA:647:G:N1	2.25	0.84
2:AA:929:G:N7	2:AA:930:U:C6	2.46	0.84
2:AA:1903:G:C2	2:AA:1904:G:N7	2.45	0.84
2:AA:1943:U:H1'	2:AA:1945:G:H5'	1.59	0.84
2:AA:2577:A:H2	29:A5:5:PRO:HB3	1.41	0.84
3:AC:171:ILE:CD1	3:AC:196:LEU:HD13	2.07	0.84
4:AD:62:ARG:NH2	4:AD:84:PRO:HD2	1.91	0.84
4:AD:211:HIS:HA	4:AD:222:PRO:HG3	1.57	0.84
6:AF:99:SER:O	6:AF:100:LEU:HG	1.76	0.84
7:AG:56:ARG:CD	7:AG:65:GLU:HB2	2.07	0.84
8:AH:34:ARG:HG2	8:AH:35:THR:H	1.41	0.84
8:AH:93:TYR:CG	8:AH:106:VAL:HG22	2.12	0.84
10:AK:66:LYS:HA	10:AK:69:LYS:HD3	1.59	0.84
10:AK:111:ASP:HB3	10:AK:114:LYS:HG2	1.57	0.84
24:A0:83:ILE:HG23	24:A0:86:ARG:HE	1.40	0.84
25:A1:40:LEU:HD11	26:A2:83:ARG:NE	1.92	0.84
27:A3:36:ILE:C	27:A3:68:VAL:HG13	2.02	0.84
31:A7:30:ILE:O	31:A7:33:ARG:HB2	1.77	0.84
34:BA:118:U:H3'	34:BA:288:A:N6	1.91	0.84
34:BA:255:G:H1'	52:BT:16:GLN:HE21	1.43	0.84
34:BA:585:G:H4'	47:BO:8:ASN:ND2	1.92	0.84
34:BA:597:G:H1	34:BA:643:C:N4	1.75	0.84
35:BB:28:C:N4	35:BB:42:G:O6	2.10	0.84
35:BB:53:G:H2'	35:BB:54:U:H6	1.40	0.84
36:B1:17:G:H22	36:B1:39:A:H61	1.23	0.84
37:BE:70:PHE:CE2	37:BE:163:PHE:HB3	2.11	0.84
37:BE:75:LYS:HE3	37:BE:78:GLN:CD	2.02	0.84
39:BG:8:VAL:HG13	39:BG:11:LEU:CD1	2.08	0.84
39:BG:93:PHE:O	39:BG:94:LEU:C	2.18	0.84
40:BH:109:ILE:HG13	40:BH:135:THR:HG21	1.59	0.84
41:BI:3:ARG:HB2	41:BI:66:GLU:HB3	1.59	0.84
44:BL:23:ASN:CG	44:BL:24:GLY:H	1.83	0.84
51:BS:74:LEU:HD22	51:BS:79:VAL:CG2	2.06	0.84
2:AA:300:A:O2'	2:AA:318:C:H1'	1.77	0.84
2:AA:311:A:H1'	2:AA:332:A:C4	2.12	0.84
2:AA:388:G:O2'	2:AA:390:A:N6	2.09	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:674:G:N1	2:AA:807:U:O4	2.11	0.84
2:AA:789:A:O2'	2:AA:790:C:OP1	1.95	0.84
2:AA:973:A:N1	26:A2:81:ARG:HG3	1.93	0.84
2:AA:990:A:C6	2:AA:1186:G:H1'	2.13	0.84
2:AA:1814:G:H3'	2:AA:1815:A:H8	1.43	0.84
2:AA:1816:G:C8	4:AD:63:ILE:HG13	2.11	0.84
2:AA:2106:G:H1	2:AA:2183:C:H42	1.25	0.84
2:AA:2181:G:H2'	2:AA:2182:G:H5''	1.56	0.84
2:AA:2505:G:H2'	2:AA:2576:G:H22	1.39	0.84
2:AA:2807:G:N1	2:AA:2893:G:O6	2.10	0.84
3:AC:10:LEU:HD11	3:AC:32:LEU:HA	1.59	0.84
3:AC:163:PHE:HB2	3:AC:171:ILE:HD11	1.60	0.84
7:AG:24:HIS:CB	7:AG:72:LYS:HD3	2.08	0.84
7:AG:97:GLN:O	7:AG:104:PHE:HB3	1.77	0.84
15:AP:31:PHE:HA	15:AP:85:ILE:CD1	2.07	0.84
17:AR:21:PHE:HB2	17:AR:31:PHE:CD1	2.13	0.84
24:A0:33:ARG:O	24:A0:34:ILE:HG12	1.78	0.84
32:A8:23:MET:HE2	32:A8:23:MET:HA	1.60	0.84
32:A8:23:MET:SD	32:A8:47:GLY:O	2.36	0.84
34:BA:22:G:H5'	34:BA:885:G:O4'	1.78	0.84
34:BA:510:A:H8	34:BA:510:A:O5'	1.61	0.84
34:BA:624:C:H4'	51:BS:10:GLY:O	1.77	0.84
34:BA:1069:C:N4	34:BA:1106:G:H1	1.75	0.84
34:BA:1185:G:H2'	34:BA:1186:G:O4'	1.75	0.84
34:BA:1322:C:H4'	34:BA:1323:G:OP1	1.78	0.84
34:BA:1378:C:OP1	42:BJ:7:ALA:HB3	1.76	0.84
34:BA:1497:G:H2'	34:BA:1498:U:H6	1.43	0.84
37:BE:15:VAL:HG21	37:BE:209:ARG:HB3	1.59	0.84
38:BF:15:THR:HB	38:BF:181:ASN:OD1	1.76	0.84
38:BF:83:ARG:O	38:BF:85:ARG:N	2.11	0.84
48:BP:77:ASN:CB	48:BP:80:ARG:HH11	1.89	0.84
50:BR:27:VAL:O	50:BR:31:LEU:HD13	1.78	0.84
2:AA:541:C:N4	2:AA:552:G:H1	1.75	0.84
2:AA:703:U:H3'	2:AA:704:G:H8	1.43	0.84
2:AA:828:U:C2'	2:AA:829:A:C8	2.55	0.84
2:AA:873:G:O3'	15:AP:32:LYS:HG2	1.78	0.84
2:AA:953:A:C2'	2:AA:954:G:H5'	2.08	0.84
2:AA:972:G:OP1	2:AA:975:G:OP1	1.95	0.84
2:AA:1258:C:O2'	2:AA:1259:G:H5'	1.76	0.84
2:AA:1482:U:C1'	2:AA:1512:G:N2	2.37	0.84
2:AA:2290:G:H1	2:AA:2342:C:H42	1.22	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2658:C:H2'	2:AA:2659:G:C5'	2.07	0.84
7:AG:134:LEU:HD13	7:AG:136:ARG:NE	1.93	0.84
9:AI:80:ILE:HG22	9:AI:81:THR:HG23	1.58	0.84
14:AO:67:ARG:CZ	14:AO:110:GLY:O	2.25	0.84
15:AP:33:MET:SD	21:AV:175:ARG:NH1	2.49	0.84
23:AX:55:ARG:HB3	23:AX:55:ARG:HH11	1.43	0.84
24:A0:90:ARG:HH22	24:A0:117:VAL:CG2	1.91	0.84
25:A1:65:ILE:CD1	25:A1:96:ALA:HB2	2.07	0.84
26:A2:4:ILE:HA	26:A2:12:TYR:HE2	1.41	0.84
27:A3:46:LYS:HG2	27:A3:58:THR:N	1.93	0.84
34:BA:5:U:O2'	34:BA:6:G:OP2	1.94	0.84
34:BA:708:C:H4'	46:BN:37:GLY:HA3	1.59	0.84
34:BA:1403:C:H1'	34:BA:1500:A:N6	1.93	0.84
42:BJ:83:ALA:HB3	42:BJ:85:TYR:CE2	2.13	0.84
42:BJ:150:ALA:HB2	46:BN:59:TYR:HD2	1.42	0.84
43:BK:83:ILE:HA	43:BK:137:VAL:HG22	1.58	0.84
49:BQ:26:ARG:HD3	49:BQ:43:CYS:CB	2.07	0.84
53:BU:62:GLU:O	53:BU:66:LEU:HG	1.78	0.84
54:BV:46:GLY:H	54:BV:62:ILE:CG2	1.90	0.84
1:AB:57:A:H1'	7:AG:13:MET:CE	2.07	0.84
1:AB:71:C:H2'	1:AB:72:G:O4'	1.76	0.84
2:AA:230:U:H2'	2:AA:231:C:H6	1.43	0.84
2:AA:270:A:H2'	2:AA:270(A):A:H4'	1.56	0.84
2:AA:954:G:OP1	15:AP:10:ILE:HA	1.77	0.84
2:AA:1055:G:N3	9:AI:28:LYS:HD3	1.92	0.84
2:AA:1300:U:H4'	2:AA:1301:A:O5'	1.76	0.84
2:AA:1570:A:C2	2:AA:1571:A:N7	2.45	0.84
2:AA:1749:A:O2'	2:AA:1750:G:H5'	1.78	0.84
2:AA:1980:G:O2'	2:AA:1981:A:OP1	1.96	0.84
2:AA:2124:G:H3'	2:AA:2124:G:C8	2.13	0.84
2:AA:2233:U:O2'	2:AA:2234:G:H5'	1.78	0.84
2:AA:2680:C:H5''	5:AE:302:GLY:C	2.03	0.84
2:AA:2785:C:HO2'	5:AE:100:TRP:CD1	1.95	0.84
4:AD:62:ARG:HH22	4:AD:84:PRO:CD	1.90	0.84
4:AD:185:GLY:O	4:AD:187:CYS:N	2.10	0.84
5:AE:214:VAL:HG11	5:AE:221:LYS:HZ2	1.40	0.84
6:AF:5:ILE:HA	6:AF:139:VAL:HG11	1.60	0.84
9:AI:119:GLU:HA	9:AI:123:ALA:O	1.76	0.84
9:AJ:13:LEU:HA	9:AJ:17:GLU:OE1	1.78	0.84
10:AK:96:LYS:HG2	10:AK:100:GLU:OE2	1.78	0.84
10:AK:103:GLN:HE21	10:AK:110:LEU:H	1.26	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:84:ARG:HA	12:AM:87:LEU:CD1	2.08	0.84
15:AP:98:GLY:O	35:BC:1:G:O2'	1.96	0.84
16:AQ:111:PRO:HA	16:AQ:116:PHE:CD1	2.13	0.84
17:AR:6:CYS:SG	17:AR:31:PHE:HD2	2.01	0.84
20:AU:71:VAL:HG13	20:AU:72:ILE:H	1.42	0.84
30:A6:29:ARG:HG2	30:A6:30:ASN:N	1.93	0.84
34:BA:170:U:O2'	34:BA:171:A:H5'	1.78	0.84
34:BA:195:A:H8	34:BA:195:A:H5'	1.43	0.84
34:BA:580:U:H2'	34:BA:581:G:C8	2.13	0.84
34:BA:658:G:O2'	34:BA:659:U:H5'	1.77	0.84
34:BA:859:A:H2'	34:BA:860:A:O4'	1.78	0.84
34:BA:922:G:H1	34:BA:1395:C:N4	1.75	0.84
37:BE:186:ALA:O	37:BE:201:ILE:HB	1.77	0.84
39:BG:150:GLU:H	39:BG:150:GLU:CD	1.86	0.84
42:BJ:68:ASN:ND2	42:BJ:128:ALA:CA	2.39	0.84
48:BP:48:LEU:HD13	48:BP:53:VAL:HG22	1.60	0.84
52:BT:74:LEU:HD13	52:BT:74:LEU:C	2.02	0.84
2:AA:240:G:C6	2:AA:241:A:N6	2.45	0.83
2:AA:391:G:H2'	2:AA:392:C:H6	1.42	0.83
2:AA:515:A:H3'	2:AA:516:C:H6	1.43	0.83
2:AA:600:G:H5''	6:AF:27:ARG:HH11	1.41	0.83
2:AA:612:G:O2'	2:AA:615:G:H2'	1.78	0.83
2:AA:1061:U:C5'	2:AA:1070:A:H4'	2.08	0.83
2:AA:1227:A:H8	2:AA:1228:G:H5''	1.40	0.83
2:AA:1239:G:HO2'	2:AA:1240:U:H6	0.87	0.83
2:AA:1361:G:H2'	2:AA:1362:C:C6	2.13	0.83
2:AA:1495:A:H2'	2:AA:1496:A:C8	2.12	0.83
2:AA:2815:C:O2'	2:AA:2816:C:H5'	1.78	0.83
3:AC:56:GLN:HA	3:AC:201:PRO:CB	2.08	0.83
4:AD:154:VAL:HG22	4:AD:157:ALA:CB	2.06	0.83
4:AD:174:ARG:HE	4:AD:180:VAL:CG2	1.91	0.83
8:AH:34:ARG:NH2	8:AH:74:MET:HA	1.93	0.83
8:AH:159:LYS:O	8:AH:162:ARG:NH2	2.10	0.83
15:AP:41:THR:O	21:AV:116:VAL:HG11	1.78	0.83
19:AT:32:ALA:CB	19:AT:37:VAL:HG23	2.08	0.83
21:AV:86:VAL:HG11	21:AV:91:PRO:HG3	1.60	0.83
23:AX:45:GLY:HA2	23:AX:48:GLU:CD	2.03	0.83
24:A0:51:LEU:CD2	24:A0:66:VAL:HG13	2.07	0.83
25:A1:13:ARG:NH1	25:A1:13:ARG:N	2.19	0.83
34:BA:125:U:H2'	34:BA:126:G:C8	2.13	0.83
34:BA:563:A:N3	47:BO:15:ARG:NH1	2.25	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:657:G:N2	34:BA:750:G:C8	2.46	0.83
37:BE:222:ILE:HD12	37:BE:226:ARG:HH21	1.42	0.83
40:BH:77:PRO:HG2	40:BH:78:HIS:HD2	1.43	0.83
43:BK:18:ARG:HA	43:BK:18:ARG:NH1	1.92	0.83
1:AB:97:G:C5	1:AB:98:G:N7	2.46	0.83
2:AA:112:U:H5'	2:AA:112:U:C6	2.12	0.83
2:AA:145:G:O2'	2:AA:146:G:H5'	1.77	0.83
2:AA:343:C:N4	2:AA:344:G:N1	2.08	0.83
2:AA:955:C:C2'	2:AA:956:G:H5'	2.07	0.83
2:AA:1526:G:H22	2:AA:1546:C:N4	1.75	0.83
2:AA:1583:A:OP1	2:AA:1586:A:OP1	1.95	0.83
2:AA:1805:U:H6	2:AA:1805:U:OP2	1.61	0.83
2:AA:1956:U:O2	2:AA:1956:U:C2'	2.26	0.83
2:AA:2380:C:H2'	2:AA:2381:C:H5'	1.60	0.83
3:AC:116:THR:HG22	3:AC:149:ILE:HB	1.59	0.83
4:AD:145:LEU:H	4:AD:152:GLN:CB	1.91	0.83
5:AE:76:PRO:HB3	5:AE:292:PRO:HG2	1.60	0.83
5:AE:267:ARG:HB2	5:AE:297:LYS:HD2	1.59	0.83
10:AK:82:LYS:C	10:AK:89:LEU:HD23	2.04	0.83
12:AM:19:MET:HE1	12:AM:22:VAL:HG21	1.60	0.83
15:AP:12:PRO:HG2	15:AP:91:HIS:HB2	1.59	0.83
15:AP:58:HIS:O	15:AP:62:GLU:HG3	1.77	0.83
15:AP:101:MET:O	15:AP:101:MET:SD	2.36	0.83
18:AS:29:LEU:HD12	18:AS:33:ARG:HD2	1.58	0.83
21:AV:21:ALA:HB2	21:AV:81:VAL:HB	1.58	0.83
25:A1:42:ALA:O	25:A1:46:GLU:HG3	1.78	0.83
26:A2:63:HIS:HA	26:A2:95:ILE:HG23	1.58	0.83
32:A8:14:ILE:HG22	32:A8:14:ILE:O	1.78	0.83
34:BA:225:C:H2'	34:BA:226:G:C5'	2.08	0.83
35:BB:32:C:C4	35:BB:33:U:C4	2.66	0.83
43:BK:103:VAL:HB	43:BK:108:GLY:CA	2.08	0.83
47:BO:28:LYS:CE	47:BO:33:ARG:HH12	1.90	0.83
49:BQ:9:LYS:HA	49:BQ:21:TYR:HE1	1.43	0.83
1:AB:12:C:N4	27:A3:50:GLY:H	1.74	0.83
2:AA:54:G:H1	2:AA:116:C:H42	0.86	0.83
2:AA:90:U:O2'	2:AA:91:A:H5''	1.79	0.83
2:AA:347:A:H3'	2:AA:347:A:H8	1.41	0.83
2:AA:458:G:OP1	31:A7:39:ARG:CZ	2.26	0.83
2:AA:559:G:C2'	2:AA:560:C:H6	1.88	0.83
2:AA:903:C:H2'	2:AA:904:C:H6	1.42	0.83
2:AA:1210:A:H5'	2:AA:1211:U:H3'	1.60	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1353:A:N6	2:AA:1378:A:C6	2.46	0.83
2:AA:1458:C:H4'	2:AA:1459:G:C4	2.13	0.83
2:AA:1471:A:N3	2:AA:1472:A:H1'	1.92	0.83
2:AA:1536:A:C8	2:AA:1538:G:O4'	2.31	0.83
2:AA:1685:C:H2'	2:AA:1686:C:C6	2.12	0.83
2:AA:1772:G:H2'	2:AA:1773:A:C4'	2.06	0.83
2:AA:1796:U:O2	2:AA:1823:G:N2	2.10	0.83
2:AA:1840:G:O2'	2:AA:1841:U:H5'	1.78	0.83
2:AA:2100:G:H1'	2:AA:2190:G:N2	1.93	0.83
2:AA:2209:C:H4'	4:AD:149:ARG:HH21	1.42	0.83
2:AA:2565:A:H2'	2:AA:2566:A:H1'	1.59	0.83
4:AD:90:ILE:HG13	4:AD:105:ALA:N	1.94	0.83
5:AE:70:VAL:HG22	5:AE:297:LYS:HA	1.57	0.83
5:AE:219:VAL:HG11	5:AE:235:ILE:HD11	1.60	0.83
17:AR:23:HIS:CE1	17:AR:27:ALA:CB	2.56	0.83
20:AU:43:ASN:HD21	20:AU:112:LEU:HD21	1.41	0.83
20:AU:87:VAL:HG13	20:AU:88:PRO:CD	2.08	0.83
21:AV:104:SER:HB2	21:AV:108:VAL:HB	1.60	0.83
23:AX:8:LEU:HD23	23:AX:31:LEU:HA	1.58	0.83
26:A2:34:GLU:C	26:A2:63:HIS:HE1	1.85	0.83
26:A2:67:LYS:HZ2	26:A2:94:LYS:HD2	1.41	0.83
26:A2:68:LYS:C	26:A2:69:ILE:HD12	2.03	0.83
32:A8:26:LYS:HD2	32:A8:44:LYS:HA	1.59	0.83
34:BA:247:G:OP2	52:BT:99:SER:CA	2.27	0.83
34:BA:277:C:OP1	52:BT:41:LYS:HD2	1.78	0.83
34:BA:559:A:C4'	34:BA:560:U:H5''	2.07	0.83
34:BA:575:G:OP1	34:BA:575:G:H4'	1.78	0.83
34:BA:944:G:N2	34:BA:1339:A:H62	1.76	0.83
34:BA:1436:U:H2'	34:BA:1437:C:O4'	1.77	0.83
35:BC:69:U:H2'	35:BC:70:C:C6	2.13	0.83
37:BE:97:TRP:CH2	37:BE:176:GLU:HG3	2.13	0.83
38:BF:47:LEU:HD11	38:BF:83:ARG:HH21	1.42	0.83
38:BF:138:VAL:HG22	38:BF:151:VAL:HG23	1.59	0.83
40:BH:141:GLN:HA	40:BH:143:ARG:NH2	1.91	0.83
42:BJ:5:ARG:O	42:BJ:6:ARG:HB2	1.79	0.83
42:BJ:20:ASP:OD1	42:BJ:22:LEU:HB3	1.78	0.83
48:BP:60:VAL:HA	48:BP:63:THR:CG2	2.07	0.83
48:BP:110:ARG:HB2	48:BP:110:ARG:NH1	1.92	0.83
52:BT:62:SER:HB3	52:BT:72:ARG:NE	1.91	0.83
54:BV:18:LYS:HE3	54:BV:18:LYS:HA	1.58	0.83
55:BW:49:ALA:HB3	55:BW:99:LEU:HG	1.58	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:72:LEU:HD13	55:BW:77:ALA:CB	2.08	0.83
2:AA:23:G:C2'	2:AA:24:G:H5'	2.08	0.83
2:AA:241:A:H1'	2:AA:243:U:C6	2.12	0.83
2:AA:270(N):G:H2'	2:AA:270(O):U:H5'	1.60	0.83
2:AA:401:A:N6	2:AA:423:A:N1	2.27	0.83
2:AA:503:A:N3	2:AA:505:A:N7	2.26	0.83
2:AA:1351:C:H2'	2:AA:1352:U:C6	2.13	0.83
2:AA:1453:A:C5	2:AA:1454:U:H1'	2.14	0.83
2:AA:1717:G:N2	2:AA:1718:G:H1'	1.93	0.83
2:AA:1742:C:H2'	2:AA:1743:G:O4'	1.78	0.83
2:AA:1752:C:H42	2:AA:1756:G:H1	0.85	0.83
2:AA:1754:C:H2'	2:AA:1755:A:H1'	1.59	0.83
2:AA:2078:C:C5'	2:AA:2434:A:H5'	2.08	0.83
2:AA:2423:U:H6	2:AA:2425:A:C5	1.96	0.83
2:AA:2725:A:H2'	2:AA:2726:U:H3'	1.59	0.83
4:AD:119:PRO:O	4:AD:129:LEU:HD21	1.78	0.83
7:AG:71:ALA:O	7:AG:72:LYS:HD3	1.77	0.83
16:AQ:23:ARG:HH21	16:AQ:35:VAL:HG21	1.43	0.83
16:AQ:47:LEU:N	16:AQ:57:THR:HG22	1.92	0.83
16:AQ:61:ALA:HB1	16:AQ:84:THR:HG22	1.59	0.83
25:A1:73:GLY:O	25:A1:74:MET:HG2	1.78	0.83
34:BA:360:A:O2'	34:BA:361:G:H5'	1.78	0.83
34:BA:984:C:H42	34:BA:1221:G:H1	1.23	0.83
34:BA:1284:C:H2'	34:BA:1285:A:C8	2.14	0.83
35:BB:28:C:C2	35:BB:29:A:C8	2.66	0.83
35:BC:44:A:H61	35:BC:45:G:N2	1.75	0.83
37:BE:73:THR:HA	37:BE:94:ASN:O	1.77	0.83
37:BE:212:GLN:OE1	37:BE:216:SER:HB2	1.79	0.83
38:BF:53:ALA:HB2	38:BF:115:LEU:HD21	1.59	0.83
44:BL:98:PRO:C	44:BL:100:GLY:H	1.86	0.83
46:BN:27:ASN:HB2	46:BN:55:LYS:HE3	1.59	0.83
50:BR:9:GLN:OE1	50:BR:12:ILE:HD12	1.77	0.83
52:BT:53:LEU:HD12	52:BT:54:GLY:H	1.44	0.83
52:BT:81:ARG:HG2	52:BT:84:LEU:CD1	2.08	0.83
1:AB:12:C:H5	27:A3:53:MET:HA	1.36	0.83
2:AA:113:G:H5'	2:AA:114:U:OP1	1.77	0.83
2:AA:2356:C:OP1	27:A3:19:LYS:HD2	1.79	0.83
2:AA:2484:G:C2'	2:AA:2485:G:H5'	2.07	0.83
5:AE:240:PRO:HG2	5:AE:243:PRO:HG3	1.60	0.83
6:AF:219:ASN:O	6:AF:222:ASP:HB2	1.77	0.83
8:AH:41:THR:O	8:AH:52:THR:OG1	1.93	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:39:ALA:CB	10:AK:44:LEU:HD21	2.08	0.83
12:AM:45:VAL:C	12:AM:132:LEU:HD13	2.02	0.83
12:AM:52:GLN:HA	12:AM:55:GLU:CG	2.08	0.83
15:AP:88:PHE:HB2	15:AP:90:PHE:HE1	1.44	0.83
18:AS:50:VAL:HG21	18:AS:103:ILE:HD13	1.60	0.83
20:AU:43:ASN:ND2	20:AU:112:LEU:HD21	1.94	0.83
24:A0:41:ALA:HB1	24:A0:114:VAL:HG21	1.57	0.83
24:A0:50:HIS:O	24:A0:54:LEU:HD13	1.79	0.83
25:A1:8:ILE:HD12	25:A1:8:ILE:N	1.92	0.83
25:A1:65:ILE:HD13	25:A1:96:ALA:HB2	1.60	0.83
25:A1:82:GLY:O	25:A1:85:ARG:HB2	1.78	0.83
34:BA:70:G:N2	34:BA:98:U:O2	2.11	0.83
34:BA:229:U:H2'	34:BA:230:G:H8	1.44	0.83
34:BA:597:G:N2	34:BA:643:C:N3	2.26	0.83
34:BA:610:G:H2'	34:BA:611:A:H5'	1.58	0.83
34:BA:30(C):G:O2'	34:BA:30(D):A:H5'	1.78	0.83
35:BB:74:C:H2'	35:BB:75:C:O5'	1.78	0.83
41:BI:39:LYS:HG3	41:BI:64:GLN:HB3	1.61	0.83
45:BM:54:PHE:CZ	45:BM:55:LYS:HE3	2.13	0.83
54:BV:11:VAL:HG13	54:BV:38:SER:OG	1.77	0.83
56:BX:12:LYS:HG3	56:BX:18:TYR:HB3	1.60	0.83
2:AA:218:A:C6	2:AA:235:U:H4'	2.13	0.83
2:AA:557:U:C4'	12:AM:92:GLN:NE2	2.35	0.83
2:AA:638:G:O2'	2:AA:639:U:H5'	1.79	0.83
2:AA:686:G:H5'	2:AA:687:C:OP2	1.79	0.83
2:AA:1025:G:H8	2:AA:1134:G:C1'	1.91	0.83
2:AA:1041:C:N3	2:AA:1114:G:N2	2.26	0.83
2:AA:1063:G:O6	2:AA:1069:A:O3'	1.96	0.83
2:AA:1166:C:H2'	2:AA:1167:U:C6	2.13	0.83
2:AA:1179:C:O2'	2:AA:1180:C:O5'	1.95	0.83
2:AA:1322:A:C2'	2:AA:1323:U:H5'	2.09	0.83
2:AA:1405:U:H2'	2:AA:1406:U:C6	2.12	0.83
2:AA:1782:C:N4	2:AA:2587:A:N6	2.25	0.83
2:AA:1809:A:C2'	2:AA:1810:A:H5'	2.08	0.83
2:AA:1859:A:H2'	2:AA:1860:G:H5'	1.59	0.83
2:AA:2471:C:H42	2:AA:2479:G:H1	0.83	0.83
2:AA:2509:G:C2'	2:AA:2510:C:H5'	2.09	0.83
3:AC:43:VAL:HG23	3:AC:175:VAL:CG2	2.08	0.83
3:AC:104:LEU:CB	3:AC:126:LYS:HE3	2.07	0.83
4:AD:142:ASN:CB	4:AD:190:THR:HG23	2.08	0.83
4:AD:194:VAL:HG23	4:AD:195:GLY:N	1.92	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:196:ASN:HB2	4:AD:199:ARG:HB2	1.60	0.83
5:AE:80:ALA:HB2	5:AE:181:VAL:HA	1.58	0.83
6:AF:168:ARG:CZ	6:AF:209:GLY:HA2	2.08	0.83
15:AP:142:LYS:HE3	15:AP:143:VAL:HA	1.61	0.83
26:A2:35:LEU:HB2	26:A2:63:HIS:CE1	2.12	0.83
28:A4:56:VAL:C	28:A4:61:LYS:HE2	2.02	0.83
30:A6:16:ALA:C	30:A6:48:VAL:HG11	2.02	0.83
33:A9:25:VAL:HB	33:A9:34:GLN:HB2	1.60	0.83
34:BA:130:A:H2	34:BA:263:A:H2	1.25	0.83
34:BA:559:A:OP2	40:BH:126:ARG:NH2	2.12	0.83
34:BA:950:U:C2'	34:BA:951:G:H5'	2.09	0.83
34:BA:1312:G:O2'	34:BA:1313:U:H5'	1.78	0.83
34:BA:1493:A:C8	34:BA:1493:A:OP2	2.31	0.83
35:BB:1:G:O6	35:BB:73:A:N6	2.10	0.83
37:BE:102:LEU:HD21	37:BE:173:ALA:HB1	1.59	0.83
39:BG:43:HIS:HB3	39:BG:46:LYS:HG3	1.60	0.83
49:BQ:12:ARG:O	49:BQ:14:PRO:N	2.11	0.83
50:BR:36:ILE:HG13	50:BR:59:MET:SD	2.18	0.83
50:BR:39:LEU:HD22	50:BR:56:LEU:HD13	1.61	0.83
51:BS:13:HIS:O	51:BS:15:PRO:HD3	1.77	0.83
53:BU:43:PHE:O	53:BU:51:LEU:HD13	1.78	0.83
54:BV:40:ILE:HB	54:BV:67:VAL:O	1.79	0.83
55:BW:50:GLU:HB2	55:BW:99:LEU:CD1	2.08	0.83
55:BW:51:GLU:HA	55:BW:54:LYS:HG3	1.59	0.83
1:AB:44:G:N2	1:AB:48:A:H1'	1.93	0.83
1:AB:44:G:H5''	1:AB:45:A:OP1	1.79	0.83
2:AA:365:C:N4	2:AA:366:C:H41	1.77	0.83
2:AA:412:A:H2'	2:AA:413:C:O4'	1.78	0.83
2:AA:666:G:H2'	2:AA:667:U:H6	1.44	0.83
2:AA:1214:A:H2'	2:AA:1215:G:C8	2.14	0.83
2:AA:1281:G:H2'	2:AA:1282:U:C6	2.14	0.83
2:AA:1379:A:N3	2:AA:1379:A:C3'	2.42	0.83
2:AA:1819:A:H1'	2:AA:1821:A:C6	2.14	0.83
2:AA:2136:C:N4	2:AA:2155:G:C5	2.45	0.83
2:AA:2561:A:O2'	13:AN:40:VAL:HG11	1.78	0.83
2:AA:2619:C:H4'	5:AE:247:ARG:O	1.77	0.83
2:AA:2794:C:N3	2:AA:2802:G:N2	2.25	0.83
7:AG:36:ASN:O	7:AG:39:ASP:HB2	1.79	0.83
9:AJ:80:ILE:HG22	9:AJ:81:THR:HG23	1.60	0.83
11:AL:28:LEU:HD13	11:AL:33:VAL:HG21	1.61	0.83
12:AM:23:ALA:HA	12:AM:26:VAL:HG21	1.61	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:7:ARG:C	13:AN:8:LEU:HD23	2.03	0.83
14:AO:73:VAL:HG22	14:AO:76:LEU:CD2	2.08	0.83
15:AP:33:MET:HE3	15:AP:34:GLY:N	1.91	0.83
20:AU:27:LEU:HD13	20:AU:31:LEU:HD12	1.59	0.83
21:AV:173:PRO:HB3	21:AV:177:THR:HG23	1.58	0.83
22:AW:39:ALA:HB3	22:AW:40:PRO:CD	2.07	0.83
25:A1:49:ASP:HA	25:A1:52:ASN:ND2	1.93	0.83
34:BA:675:A:H1'	46:BN:116:HIS:CG	2.14	0.83
34:BA:748:C:O5'	34:BA:748:C:C6	2.31	0.83
34:BA:825:G:H1	34:BA:875:C:N4	1.76	0.83
34:BA:988:G:N1	34:BA:1217:C:O2	2.10	0.83
39:BG:102:ASP:CB	39:BG:121:VAL:HG21	2.09	0.83
40:BH:42:GLY:HA3	40:BH:66:MET:SD	2.19	0.83
43:BK:22:GLU:HA	43:BK:63:LEU:HD21	1.60	0.83
46:BN:67:ASP:HA	46:BN:70:LYS:CD	2.08	0.83
46:BN:111:ASP:O	46:BN:113:PRO:N	2.12	0.83
2:AA:324:A:C2	2:AA:325:G:C4	2.67	0.83
2:AA:462:C:H2'	2:AA:463:G:H5'	1.60	0.83
2:AA:815:C:O2'	2:AA:816:C:H5'	1.79	0.83
2:AA:826:U:H5''	2:AA:2429:G:P	2.19	0.83
2:AA:857:C:H42	2:AA:920:G:H1	0.91	0.83
2:AA:1081:U:OP1	11:AL:126:LYS:HD3	1.77	0.83
2:AA:1152:C:O2'	2:AA:1153:C:H5'	1.77	0.83
2:AA:1343:G:O6	2:AA:1404:C:N4	2.11	0.83
2:AA:1559:G:N3	2:AA:1559:G:C2'	2.42	0.83
2:AA:1770:G:H2'	2:AA:1771:C:H6	1.44	0.83
2:AA:2009:G:H1'	24:A0:107:ASP:O	1.79	0.83
2:AA:2174:C:O2'	3:AC:218:MET:HA	1.78	0.83
2:AA:2212:A:H2'	2:AA:2212:A:N3	1.94	0.83
2:AA:2305:A:C3'	2:AA:2306:C:H5''	2.09	0.83
3:AC:84:LYS:O	3:AC:87:GLU:HB2	1.78	0.83
5:AE:315:VAL:HG12	5:AE:316:ARG:H	1.41	0.83
6:AF:238:SER:O	6:AF:241:ALA:CB	2.26	0.83
9:AJ:10:ILE:HA	9:AJ:13:LEU:HD12	1.59	0.83
10:AK:115:ILE:HG22	10:AK:116:GLU:H	1.42	0.83
11:AL:124:ALA:CA	11:AL:127:ILE:HD12	2.07	0.83
12:AM:62:ASP:O	12:AM:64:GLY:N	2.11	0.83
13:AN:87:ILE:HG23	13:AN:92:SER:N	1.93	0.83
14:AO:113:GLN:HB2	14:AO:115:ARG:NH1	1.93	0.83
16:AQ:17:ARG:CZ	16:AQ:106:LEU:HD22	2.09	0.83
27:A3:37:LEU:HB2	27:A3:68:VAL:C	2.04	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:A7:31:LEU:O	31:A7:35:ARG:HG3	1.78	0.83
34:BA:379:C:H42	34:BA:384:G:H1	1.27	0.83
34:BA:575:G:N2	34:BA:880:C:O2	2.12	0.83
34:BA:775:G:H2'	34:BA:776:G:H8	1.41	0.83
34:BA:1113:C:O5'	34:BA:1113:C:H6	1.61	0.83
34:BA:1493:A:OP2	34:BA:1493:A:H8	1.62	0.83
35:BB:47:U:H5	35:BB:49:C:H5''	1.32	0.83
39:BG:117:ALA:O	39:BG:121:VAL:HG23	1.78	0.83
39:BG:180:GLY:O	39:BG:182:LYS:HG2	1.79	0.83
41:BI:49:ALA:HB1	53:BU:80:PRO:CD	2.06	0.83
48:BP:91:ARG:HB3	48:BP:98:VAL:CG2	2.09	0.83
52:BT:25:ARG:HH21	52:BT:40:LYS:CD	1.90	0.83
53:BU:74:ARG:HG2	53:BU:81:PHE:HB3	1.61	0.83
2:AA:297:C:H2'	2:AA:298:G:O4'	1.78	0.83
2:AA:602:G:N2	2:AA:655:A:H2'	1.94	0.83
2:AA:710:G:H1	2:AA:721:C:H42	1.23	0.83
2:AA:751:A:N1	2:AA:789:A:C6	2.47	0.83
2:AA:1376:C:H2'	2:AA:1377:G:C8	2.14	0.83
2:AA:1393:A:H61	19:AT:13:LYS:NZ	1.75	0.83
3:AC:36:LYS:HZ2	3:AC:37:PHE:N	1.76	0.83
4:AD:152:GLN:O	4:AD:153:LEU:HB2	1.77	0.83
6:AF:1:MET:HG2	6:AF:18:LEU:HD12	1.61	0.83
8:AH:40:MET:C	8:AH:54:PRO:HG3	2.04	0.83
8:AH:155:PRO:HB2	8:AH:169:ARG:HG3	1.60	0.83
10:AK:28:ASN:O	10:AK:32:LYS:HB2	1.79	0.83
14:AO:71:GLU:HA	14:AO:74:THR:HG23	1.61	0.83
14:AO:77:ALA:HA	14:AO:81:VAL:CB	2.09	0.83
18:AS:3:ALA:HB2	18:AS:62:HIS:ND1	1.93	0.83
22:AW:55:ARG:H	22:AW:55:ARG:CD	1.91	0.83
24:A0:20:LEU:CD2	24:A0:24:GLN:HG3	2.08	0.83
24:A0:37:THR:HG23	24:A0:40:LYS:HD2	1.61	0.83
26:A2:48:GLY:C	26:A2:49:GLU:CD	2.47	0.83
28:A4:67:TYR:C	28:A4:68:ARG:HG3	2.02	0.83
34:BA:280:C:C5'	34:BA:281:G:OP2	2.25	0.83
34:BA:392:G:H5'	51:BS:12:LYS:CE	2.08	0.83
34:BA:1395:C:O2	34:BA:1395:C:H2'	1.79	0.83
34:BA:1501:C:H2'	34:BA:1504:G:O6	1.77	0.83
35:BB:34:G:C2	36:B1:66:G:C5	2.66	0.83
35:BB:54:U:C6	35:BB:54:U:C4'	2.62	0.83
37:BE:67:THR:HG21	37:BE:155:LEU:HD11	1.59	0.83
38:BF:20:SER:CB	38:BF:40:ARG:HH22	1.91	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:65:ASN:ND2	40:BH:136:MET:HE1	1.92	0.83
40:BH:75:THR:HB	40:BH:118:ILE:HG12	1.59	0.83
43:BK:28:ALA:CB	43:BK:57:PRO:O	2.27	0.83
43:BK:36:LEU:O	43:BK:39:LEU:HB2	1.79	0.83
45:BM:6:ILE:HG22	45:BM:98:ILE:HG12	1.59	0.83
50:BR:76:GLU:HA	50:BR:79:ARG:NH1	1.94	0.83
51:BS:6:LEU:CA	51:BS:18:ARG:O	2.24	0.83
1:AB:3:C:H2'	1:AB:4:C:O4'	1.79	0.83
2:AA:245:G:OP2	14:AO:53:ARG:NH1	2.11	0.83
2:AA:462:C:N3	2:AA:468:G:N2	2.26	0.83
2:AA:788:A:H4'	2:AA:789:A:O5'	1.77	0.83
2:AA:1085:A:H5'	9:AI:29:PHE:CG	2.12	0.83
2:AA:1155:A:H4'	25:A1:55:ARG:HH12	1.44	0.83
2:AA:1421:G:O6	2:AA:1577:C:N3	2.11	0.83
2:AA:1430:C:H2'	2:AA:1431:U:H6	1.43	0.83
2:AA:1996:C:H5''	2:AA:1996:C:H6	1.43	0.83
2:AA:2103:C:H2'	2:AA:2104:G:H8	1.44	0.83
3:AC:131:LEU:HD12	3:AC:137:LEU:HD22	1.61	0.83
4:AD:146:LYS:HD3	4:AD:147:PRO:HD2	1.59	0.83
5:AE:180:ILE:HB	5:AE:187:HIS:HB3	1.61	0.83
6:AF:53:GLY:C	6:AF:54:LEU:CG	2.51	0.83
6:AF:81:PRO:O	6:AF:82:GLN:NE2	2.11	0.83
6:AF:91:PRO:HB2	6:AF:92:PRO:HD2	1.60	0.83
6:AF:224:ALA:N	6:AF:225:PRO:HD2	1.94	0.83
9:AI:35:ALA:HB3	9:AI:36:PRO:CD	2.08	0.83
12:AM:87:LEU:HB2	12:AM:98:PHE:HZ	1.40	0.83
21:AV:24:TYR:HB3	21:AV:83:PHE:O	1.79	0.83
21:AV:70:GLN:O	21:AV:70:GLN:HG2	1.79	0.83
21:AV:100:THR:HG22	21:AV:137:ASP:HB3	1.59	0.83
22:AW:45:ARG:NE	22:AW:49:LEU:HG	1.94	0.83
25:A1:69:ALA:HA	25:A1:79:PHE:CZ	2.14	0.83
26:A2:35:LEU:C	26:A2:60:VAL:HG22	2.04	0.83
29:A5:50:GLY:HA2	29:A5:57:VAL:CB	2.07	0.83
34:BA:7:G:H1'	34:BA:298:A:C8	2.13	0.83
34:BA:47:C:H4'	34:BA:48:C:H5'	1.59	0.83
34:BA:247:G:O2'	34:BA:248:C:H5'	1.78	0.83
34:BA:792:A:H2'	34:BA:794:A:H62	1.44	0.83
34:BA:1363:A:H4'	34:BA:1364:U:O5'	1.79	0.83
35:BB:9:A:N1	35:BB:45:G:C6	2.46	0.83
38:BF:12:LEU:HD22	38:BF:16:ARG:C	2.03	0.83
39:BG:22:LYS:HB3	39:BG:26:CYS:HB2	1.60	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:152:SER:O	39:BG:154:ASN:N	2.11	0.83
48:BP:104:ARG:HG2	48:BP:105:THR:HG23	1.61	0.83
1:AB:5:C:H2'	1:AB:6:C:H6	1.43	0.82
2:AA:595:C:N4	2:AA:662:G:H1	1.77	0.82
2:AA:826:U:H5''	2:AA:2428:G:O3'	1.78	0.82
2:AA:969:U:C2	2:AA:970:C:C6	2.67	0.82
2:AA:1084:A:C5'	9:AL:38:ALA:N	2.41	0.82
2:AA:1362:C:N3	2:AA:1369:G:O6	2.12	0.82
2:AA:1659:U:O2'	2:AA:1660:C:H5'	1.77	0.82
2:AA:1818:U:O2	4:AD:153:LEU:HD12	1.79	0.82
2:AA:2756:U:O2'	2:AA:2757:A:H5'	1.78	0.82
3:AC:93:TYR:HE2	3:AC:110:PHE:N	1.77	0.82
5:AE:216:ARG:CD	5:AE:253:GLN:HA	2.09	0.82
5:AE:256:THR:HA	5:AE:259:HIS:HE1	1.40	0.82
8:AH:159:LYS:H	8:AH:162:ARG:HH12	0.85	0.82
12:AM:24:SER:O	12:AM:27:ALA:HB3	1.77	0.82
13:AN:42:THR:CG2	13:AN:57:VAL:HA	2.07	0.82
13:AN:64:ARG:HB2	13:AN:79:PHE:CD1	2.14	0.82
14:AO:114:VAL:O	14:AO:115:ARG:HG3	1.79	0.82
21:AV:3:LEU:HD21	21:AV:38:ALA:HB3	1.59	0.82
30:A6:5:GLY:C	30:A6:7:ARG:H	1.84	0.82
34:BA:141:A:H1'	34:BA:182:U:O2	1.79	0.82
34:BA:190(E):U:C4	52:BT:72:ARG:NH2	2.47	0.82
34:BA:519:C:H2'	34:BA:520:A:H5'	1.59	0.82
34:BA:817:C:O2'	34:BA:818:G:H5''	1.77	0.82
35:BB:19:G:C4'	35:BB:20:G:OP2	2.26	0.82
38:BF:157:ILE:HD12	38:BF:164:ARG:CZ	2.09	0.82
39:BG:102:ASP:O	39:BG:105:VAL:HB	1.79	0.82
48:BP:29:ARG:CZ	48:BP:64:TRP:HE1	1.92	0.82
48:BP:120:LYS:C	48:BP:121:LYS:HD2	2.04	0.82
56:BX:16:GLY:O	56:BX:18:TYR:N	2.11	0.82
2:AA:152:G:N2	2:AA:176:G:C4	2.47	0.82
2:AA:270(Q):C:O2'	2:AA:270(R):G:H5'	1.78	0.82
2:AA:287:C:H2'	2:AA:288:C:C5	2.14	0.82
2:AA:1058:G:N2	11:AL:117:ASN:HD21	1.77	0.82
2:AA:2324:C:O2	2:AA:2385:C:H5	1.62	0.82
2:AA:2347:C:H4'	30:A6:40:TYR:OH	1.79	0.82
2:AA:2622:C:O2'	2:AA:2824:C:N4	2.13	0.82
2:AA:2832:U:H1'	2:AA:2834:G:N2	1.94	0.82
4:AD:69:ASP:OD2	4:AD:188:ARG:NH1	2.12	0.82
5:AE:198:TYR:HD2	5:AE:265:ASN:C	1.87	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:83:ALA:C	13:AN:84:CYS:HG	1.84	0.82
14:AO:64:ILE:CD1	14:AO:106:VAL:HG12	2.08	0.82
15:AP:10:ILE:O	15:AP:11:LYS:HD3	1.79	0.82
15:AP:36:ASN:HD21	21:AV:116:VAL:HB	1.45	0.82
15:AP:84:ARG:NH2	15:AP:86:ARG:HH21	1.78	0.82
20:AU:44:ALA:HB1	20:AU:65:VAL:HG21	1.61	0.82
21:AV:123:VAL:HA	21:AV:161:ALA:CB	2.08	0.82
21:AV:130:ILE:HD12	21:AV:130:ILE:O	1.78	0.82
25:A1:91:ASN:O	25:A1:95:LEU:HD21	1.80	0.82
26:A2:39:PHE:CE1	26:A2:42:GLY:HA2	2.15	0.82
34:BA:1246:C:N3	34:BA:1291:G:O6	2.12	0.82
39:BG:120:LEU:HG	39:BG:125:HIS:CD2	2.14	0.82
41:BI:6:VAL:HG12	41:BI:63:TYR:O	1.78	0.82
45:BM:51:ARG:CB	45:BM:59:SER:HB3	2.09	0.82
46:BN:62:GLN:HE22	46:BN:63:LEU:CG	1.91	0.82
48:BP:81:LEU:CB	48:BP:86:CYS:SG	2.65	0.82
51:BS:46:PRO:CG	51:BS:47:ASP:H	1.92	0.82
2:AA:338:G:OP2	20:AU:21:LYS:HG3	1.79	0.82
2:AA:412:A:H61	2:AA:2411:A:H1'	1.44	0.82
2:AA:431:U:H3'	2:AA:431:U:C6	2.14	0.82
2:AA:1040:C:O2	2:AA:1040:C:H2'	1.79	0.82
2:AA:1063:G:C2	2:AA:1075:C:N3	2.46	0.82
2:AA:1853:A:H2'	2:AA:1854:A:C8	2.14	0.82
2:AA:2057:A:H5'	29:A5:8:LYS:NZ	1.94	0.82
2:AA:2093:G:H5'	10:AK:25:TYR:CD1	2.14	0.82
2:AA:2180:U:C2'	2:AA:2181:G:H8	1.93	0.82
3:AC:114:VAL:HG11	3:AC:153:ILE:HG12	1.62	0.82
7:AG:45:THR:HA	7:AG:83:PHE:HZ	1.43	0.82
8:AH:41:THR:HB	8:AH:52:THR:OG1	1.79	0.82
10:AK:21:VAL:CB	10:AK:26:ALA:HB2	2.09	0.82
12:AM:23:ALA:HA	12:AM:26:VAL:CG2	2.08	0.82
15:AP:56:ILE:HD11	15:AP:115:SER:HB3	1.59	0.82
20:AU:51:LEU:HA	20:AU:97:ARG:NH2	1.92	0.82
20:AU:57:GLY:CA	20:AU:97:ARG:HH22	1.90	0.82
20:AU:81:LYS:HG2	20:AU:82:THR:H	1.43	0.82
25:A1:9:VAL:HG12	25:A1:13:ARG:HH21	1.42	0.82
25:A1:50:ARG:HA	25:A1:53:LYS:NZ	1.94	0.82
32:A8:16:ILE:HA	32:A8:22:VAL:HG22	1.61	0.82
34:BA:987:G:C2'	34:BA:988:G:H5'	2.10	0.82
37:BE:118:LEU:HD12	37:BE:145:LEU:HG	1.59	0.82
38:BF:19:GLU:HA	38:BF:54:ARG:HH21	0.77	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:8:VAL:CG1	39:BG:11:LEU:HD12	2.09	0.82
40:BH:6:PHE:CZ	40:BH:66:MET:HE2	2.13	0.82
40:BH:39:GLY:C	40:BH:69:VAL:HG23	2.05	0.82
40:BH:65:ASN:HD21	40:BH:136:MET:CE	1.90	0.82
40:BH:107:ARG:HG2	40:BH:111:GLU:CD	2.04	0.82
43:BK:6:ILE:HD11	43:BK:85:ARG:CD	2.09	0.82
48:BP:92:HIS:CG	48:BP:98:VAL:HG21	2.15	0.82
2:AA:273(D):C:N4	2:AA:363(B):G:H1	1.78	0.82
2:AA:388:G:C2'	2:AA:390:A:N7	2.38	0.82
2:AA:523:C:O2'	2:AA:524:U:H5'	1.78	0.82
2:AA:566:U:C5	2:AA:567:A:N7	2.47	0.82
2:AA:1510:A:H3'	2:AA:1511:A:C8	2.15	0.82
2:AA:1729:A:N6	2:AA:1731:G:O6	2.12	0.82
2:AA:2137:C:H3'	2:AA:2138:C:C5	2.14	0.82
2:AA:2314:C:H2'	2:AA:2315:G:H8	1.44	0.82
2:AA:2623:G:H21	29:A5:22:HIS:HE1	1.24	0.82
3:AC:115:ALA:HB2	3:AC:138:PRO:HG2	1.60	0.82
7:AG:90:LEU:HD22	48:BP:3:ARG:NH1	1.94	0.82
10:AK:4:ILE:HD11	10:AK:39:ALA:HA	1.59	0.82
10:AK:94:THR:HG23	10:AK:97:GLN:H	1.44	0.82
13:AN:34:ASN:C	13:AN:62:VAL:HG11	2.04	0.82
20:AU:77:VAL:HG12	20:AU:89:ARG:HD2	1.60	0.82
21:AV:95:SER:OG	21:AV:122:ILE:HG12	1.80	0.82
22:AW:3:LEU:O	22:AW:4:HIS:HB2	1.80	0.82
34:BA:536:C:C2'	34:BA:537:G:H5'	2.08	0.82
34:BA:676:A:O2'	46:BN:115:PRO:HG3	1.79	0.82
34:BA:769:G:O2'	34:BA:770:C:H5'	1.80	0.82
34:BA:778:G:O2'	34:BA:779:C:H5'	1.79	0.82
34:BA:987:G:H2'	34:BA:988:G:H5'	1.60	0.82
34:BA:1226:C:H5''	48:BP:103:THR:HB	1.61	0.82
37:BE:10:LEU:HD23	37:BE:11:LEU:H	1.44	0.82
37:BE:97:TRP:HZ2	37:BE:102:LEU:HD13	1.44	0.82
43:BK:46:LYS:HZ2	43:BK:64:LYS:HA	1.42	0.82
43:BK:100:ILE:HB	43:BK:125:ARG:HH21	1.45	0.82
44:BL:17:VAL:HG13	44:BL:63:ILE:CG1	2.09	0.82
52:BT:57:VAL:HB	52:BT:75:ARG:O	1.77	0.82
52:BT:89:LEU:O	52:BT:92:ARG:HB3	1.77	0.82
2:AA:352:G:O5'	2:AA:352:G:H8	1.62	0.82
2:AA:422:A:H2'	2:AA:422:A:N3	1.93	0.82
2:AA:455:C:H4'	2:AA:456:C:OP1	1.80	0.82
2:AA:709:U:H2'	2:AA:710:G:H8	1.42	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1287:A:H8	24:A0:104:ARG:HH11	1.28	0.82
2:AA:1557:C:H3'	2:AA:1558:A:H5''	1.61	0.82
2:AA:1605:C:H2'	2:AA:1606:G:O4'	1.79	0.82
2:AA:1780:A:H3'	2:AA:1781:C:H5''	1.61	0.82
2:AA:2226:C:N3	2:AA:2227:A:H1'	1.94	0.82
2:AA:2319:G:O5'	2:AA:2320:A:OP1	1.97	0.82
4:AD:60:GLN:N	4:AD:62:ARG:NH1	2.27	0.82
7:AG:13:MET:HE2	7:AG:137:PRO:HB3	1.59	0.82
7:AG:81:GLU:O	7:AG:85:GLN:HG3	1.78	0.82
8:AH:18:VAL:HG21	8:AH:44:VAL:HG11	1.61	0.82
9:AI:1:MET:HE3	11:AL:10:LYS:NZ	1.94	0.82
10:AK:83:ALA:HB3	10:AK:147:GLU:HG2	1.62	0.82
12:AM:5:GLU:CA	12:AM:109:TYR:HE2	1.89	0.82
12:AM:19:MET:HG2	12:AM:132:LEU:HD21	1.61	0.82
13:AN:63:VAL:HG23	13:AN:84:CYS:CB	2.10	0.82
15:AP:50:VAL:HG22	15:AP:147:VAL:CG1	2.08	0.82
23:AX:18:ASP:O	23:AX:21:ALA:HB3	1.79	0.82
27:A3:28:GLY:HA3	27:A3:60:PHE:HB3	1.62	0.82
28:A4:54:GLY:O	28:A4:55:ARG:HG3	1.79	0.82
32:A8:21:LYS:HA	32:A8:57:ARG:HH21	1.44	0.82
34:BA:19:C:H2'	34:BA:20:U:H6	1.44	0.82
34:BA:783:C:H42	34:BA:799:G:H1	1.24	0.82
34:BA:1196:U:H5'	34:BA:1197:G:H5'	1.61	0.82
34:BA:1338:G:H21	35:BC:41:U:C1'	1.92	0.82
34:BA:1403:C:H1'	34:BA:1500:A:N1	1.94	0.82
34:BA:1425:U:O2'	34:BA:1426:C:H5'	1.78	0.82
35:BC:72:C:H2'	35:BC:73:A:H8	1.42	0.82
37:BE:115:LEU:CD2	37:BE:149:LEU:HD13	2.09	0.82
37:BE:149:LEU:O	37:BE:152:PHE:N	2.11	0.82
47:BO:85:ILE:CD1	47:BO:98:TYR:CB	2.52	0.82
48:BP:2:ALA:C	48:BP:4:ILE:H	1.85	0.82
52:BT:58:GLU:OE1	52:BT:75:ARG:HG2	1.79	0.82
54:BV:13:ASP:HA	54:BV:16:LEU:HB2	1.62	0.82
2:AA:95:G:H5'	22:AW:41:GLU:OE1	1.78	0.82
2:AA:530:G:H1'	2:AA:532:A:OP2	1.79	0.82
2:AA:616:A:N3	2:AA:617:G:N2	2.27	0.82
2:AA:637:A:OP2	14:AO:109:LEU:HD22	1.80	0.82
2:AA:806:C:O2'	2:AA:2445:G:H4'	1.79	0.82
2:AA:1084:A:P	9:AI:39:VAL:H	2.01	0.82
2:AA:1275:A:O2'	2:AA:1276:A:O5'	1.96	0.82
2:AA:1472:A:H2'	2:AA:1473:G:H8	1.44	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1650:G:O2'	2:AA:1651:G:C5'	2.26	0.82
2:AA:1822:G:H2'	2:AA:1823:G:H8	1.43	0.82
2:AA:2259:G:N2	2:AA:2282:G:C5	2.46	0.82
2:AA:2579:C:H4'	5:AE:231:TRP:CH2	2.15	0.82
2:AA:2734:A:H61	5:AE:316:ARG:HH22	1.26	0.82
3:AC:6:ARG:HH12	3:AC:35:ALA:HA	1.43	0.82
3:AC:36:LYS:HZ2	3:AC:36:LYS:HA	1.44	0.82
5:AE:268:LEU:HD23	5:AE:269:ILE:N	1.95	0.82
5:AE:315:VAL:HG12	5:AE:316:ARG:N	1.95	0.82
6:AF:55:ARG:C	6:AF:79:ARG:HH21	1.86	0.82
16:AQ:19:ASP:O	16:AQ:21:HIS:N	2.13	0.82
21:AV:103:ARG:HB2	21:AV:141:MET:HE1	1.59	0.82
24:A0:52:ILE:HD13	24:A0:94:TYR:CB	2.09	0.82
24:A0:67:LEU:HD13	24:A0:67:LEU:C	2.04	0.82
24:A0:113:LEU:HD13	24:A0:114:VAL:N	1.94	0.82
27:A3:14:ARG:HH11	27:A3:14:ARG:H	1.28	0.82
34:BA:15:G:H1	34:BA:920:U:H3	1.25	0.82
34:BA:130:A:H2	34:BA:263:A:C2	1.97	0.82
34:BA:1165:C:N4	34:BA:1171:G:H1	1.77	0.82
34:BA:1201:A:H4'	34:BA:1202:G:H5''	1.61	0.82
34:BA:1533:C:H2'	34:BA:1534:A:H4'	1.61	0.82
37:BE:25:ASN:O	37:BE:27:LYS:N	2.12	0.82
37:BE:74:LYS:HE2	37:BE:76:GLN:HB2	1.60	0.82
37:BE:88:ALA:HA	37:BE:222:ILE:HD13	1.61	0.82
44:BL:114:TYR:CB	45:BM:60:ARG:HH12	1.91	0.82
46:BN:21:ILE:HD11	46:BN:82:VAL:CG1	2.08	0.82
46:BN:28:THR:O	46:BN:44:SER:HB2	1.78	0.82
51:BS:58:TYR:CD1	51:BS:58:TYR:C	2.58	0.82
1:AB:60:C:H2'	1:AB:61:G:H8	1.45	0.82
2:AA:73:A:H2'	2:AA:74:A:OP2	1.78	0.82
2:AA:146:G:C2	2:AA:147:U:H1'	2.14	0.82
2:AA:911:A:C5	15:AP:16:ARG:HG2	2.14	0.82
2:AA:917:A:N7	2:AA:2268:A:N6	2.28	0.82
2:AA:1466:G:H2'	2:AA:1547:C:H41	1.44	0.82
2:AA:1819:A:H1'	2:AA:1821:A:C5	2.14	0.82
2:AA:2466:C:OP1	33:A9:5:SER:O	1.97	0.82
2:AA:2575:C:O2'	5:AE:237:ASN:ND2	2.10	0.82
2:AA:2590:A:H2'	2:AA:2591:C:C6	2.13	0.82
4:AD:85:ASN:N	4:AD:85:ASN:ND2	2.25	0.82
4:AD:183:ILE:HG22	4:AD:184:LEU:H	1.42	0.82
16:AQ:100:ALA:HB3	16:AQ:127:LEU:HD21	1.60	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:25:ARG:O	18:AS:27:LYS:N	2.11	0.82
20:AU:71:VAL:HG21	20:AU:92:ASP:HA	1.58	0.82
31:A7:6:GLN:CD	31:A7:6:GLN:N	2.33	0.82
34:BA:1144:G:N2	34:BA:1146:A:N6	2.28	0.82
35:BB:6:U:C2	35:BB:68:U:C2	2.67	0.82
40:BH:56:GLN:H	40:BH:56:GLN:HE21	1.26	0.82
43:BK:114:THR:HG23	43:BK:119:LEU:HD23	1.61	0.82
43:BK:123:GLU:HA	43:BK:126:LYS:HE3	1.59	0.82
48:BP:34:LEU:HD23	48:BP:39:ILE:CG1	2.09	0.82
51:BS:58:TYR:CD1	51:BS:59:TRP:N	2.48	0.82
54:BV:77:THR:HG22	54:BV:78:ARG:HG3	1.60	0.82
2:AA:59:U:H3'	2:AA:60:G:H5''	1.60	0.82
2:AA:270(L):U:H4'	2:AA:270(M):U:OP1	1.79	0.82
2:AA:342:G:H2'	2:AA:343:C:C5	2.15	0.82
2:AA:1011:G:N1	2:AA:1150:C:O2	2.13	0.82
2:AA:1018:C:H2'	2:AA:1019:U:H5''	1.62	0.82
2:AA:1183:G:O2'	2:AA:1184:G:O4'	1.96	0.82
2:AA:1364:G:O5'	2:AA:1809:A:N7	2.12	0.82
2:AA:1413:G:H1	2:AA:1589:C:H42	1.25	0.82
2:AA:2424:C:H2'	2:AA:2424:C:O2	1.79	0.82
2:AA:2553:G:H3'	2:AA:2553:G:C8	2.15	0.82
2:AA:2845:G:O6	2:AA:2871:C:N3	2.12	0.82
3:AC:116:THR:HG23	3:AC:149:ILE:HD12	1.61	0.82
3:AC:126:LYS:HG2	3:AC:127:LEU:HG	1.62	0.82
5:AE:45:LYS:CB	5:AE:305:LYS:HA	2.08	0.82
5:AE:102:ASP:O	5:AE:103:GLU:HG3	1.80	0.82
6:AF:115:LEU:HB2	6:AF:246:ARG:HH12	1.44	0.82
6:AF:215:ALA:HA	6:AF:239:ALA:HA	1.61	0.82
8:AH:58:LYS:C	8:AH:61:ARG:HB3	2.03	0.82
13:AN:3:GLN:HG2	13:AN:4:GLN:N	1.95	0.82
18:AS:23:LEU:CD1	29:A5:25:LEU:HB3	2.09	0.82
25:A1:78:THR:HB	25:A1:117:ARG:HH21	1.42	0.82
30:A6:19:GLY:CA	30:A6:42:PRO:HG3	2.09	0.82
34:BA:673:G:H2'	34:BA:674:G:C8	2.15	0.82
34:BA:1192:C:H6	34:BA:1192:C:C3'	1.91	0.82
34:BA:1293:G:H2'	34:BA:1294:G:C8	2.14	0.82
34:BA:1475:G:H2'	34:BA:1476:G:H8	1.39	0.82
35:BC:22:G:H2'	35:BC:23:A:H8	1.41	0.82
37:BE:25:ASN:HD21	37:BE:27:LYS:HB2	1.45	0.82
38:BF:10:PHE:HE1	38:BF:178:LEU:HD22	1.44	0.82
38:BF:182:ILE:HG23	38:BF:203:PHE:CA	2.09	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:78:HIS:HB3	43:BK:107:LEU:CD2	2.10	0.82
41:BI:60:PHE:CZ	53:BU:78:LEU:HD21	2.15	0.82
45:BM:30:SER:OG	45:BM:81:THR:HA	1.79	0.82
48:BP:14:ARG:HG3	48:BP:16:ASP:OD2	1.80	0.82
48:BP:54:VAL:O	48:BP:57:ARG:HB3	1.80	0.82
51:BS:5:ARG:C	51:BS:6:LEU:HD13	2.04	0.82
51:BS:19:ILE:HD12	51:BS:38:TYR:N	1.95	0.82
55:BW:50:GLU:H	55:BW:99:LEU:HD12	1.45	0.82
2:AA:146:G:O2'	2:AA:147:U:H5'	1.79	0.82
2:AA:271:G:N1	2:AA:404:C:N4	2.28	0.82
2:AA:308:G:N2	2:AA:329:G:N2	2.28	0.82
2:AA:374:A:H2'	2:AA:375:C:O4'	1.78	0.82
2:AA:610:C:H42	2:AA:618(A):C:N4	1.76	0.82
2:AA:635:C:H2'	2:AA:636:G:C8	2.15	0.82
2:AA:903:C:H2'	2:AA:904:C:C6	2.14	0.82
2:AA:1111:A:H5''	2:AA:1112:G:OP1	1.78	0.82
2:AA:1260:G:H2'	2:AA:1261:C:H5'	1.62	0.82
2:AA:1417:C:H42	2:AA:1581:G:H22	0.89	0.82
2:AA:1799:G:O6	4:AD:177:SER:HB2	1.79	0.82
2:AA:2051:A:N7	2:AA:2614:A:N7	2.27	0.82
2:AA:2416:C:H2'	2:AA:2417:C:C5'	2.09	0.82
2:AA:2840:C:H5''	24:A0:53:HIS:CD2	2.15	0.82
4:AD:143:ILE:HD13	4:AD:153:LEU:C	2.05	0.82
18:AS:17:VAL:O	18:AS:20:VAL:HB	1.78	0.82
25:A1:11:ARG:HG2	25:A1:12:ARG:H	1.45	0.82
28:A4:7:PRO:HD2	28:A4:56:VAL:HG21	1.59	0.82
28:A4:46:GLU:OE1	28:A4:54:GLY:HA3	1.80	0.82
34:BA:22:G:H2'	34:BA:23:C:C1'	2.09	0.82
34:BA:300:A:H2'	34:BA:301:G:H5'	1.60	0.82
34:BA:922:G:O2'	34:BA:923:A:H5'	1.79	0.82
34:BA:952:U:C5'	34:BA:972:C:H41	1.93	0.82
39:BG:43:HIS:CB	39:BG:46:LYS:HG3	2.10	0.82
39:BG:148:VAL:CG2	39:BG:181:MET:HE2	2.09	0.82
42:BJ:69:VAL:HG21	42:BJ:134:ALA:HB1	1.62	0.82
47:BO:6:THR:OG1	47:BO:9:GLN:HG3	1.78	0.82
47:BO:90:VAL:HG21	47:BO:96:VAL:CG1	2.08	0.82
2:AA:304:G:O2'	2:AA:305:U:H5'	1.80	0.82
2:AA:740:U:H4'	2:AA:1784:A:OP1	1.80	0.82
2:AA:775:G:H4'	2:AA:777:A:C4	2.15	0.82
2:AA:861:A:H62	2:AA:916:G:N2	1.75	0.82
2:AA:1024:G:H3'	2:AA:1025:G:C5'	2.09	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2123:G:O2'	3:AC:133:PRO:HA	1.80	0.82
2:AA:2334:G:H2'	2:AA:2335:A:C5'	2.09	0.82
3:AC:10:LEU:HG	3:AC:220:PRO:HG2	1.61	0.82
8:AH:53:ARG:HB3	8:AH:56:ASP:OD1	1.79	0.82
9:AI:35:ALA:CB	9:AI:36:PRO:HD3	2.10	0.82
15:AP:18:GLU:HG2	15:AP:23:ILE:HD11	1.62	0.82
15:AP:133:GLU:HG3	15:AP:134:PHE:CD1	2.13	0.82
18:AS:12:ILE:O	18:AS:101:SER:OG	1.96	0.82
26:A2:14:VAL:HG22	26:A2:19:VAL:HG21	1.61	0.82
28:A4:17:GLN:CD	28:A4:34:ASP:HA	2.04	0.82
34:BA:297:G:N2	34:BA:300:A:OP2	2.12	0.82
34:BA:646:U:H2'	34:BA:647:C:H6	1.45	0.82
34:BA:674:G:O6	34:BA:716:A:N6	2.12	0.82
34:BA:826:C:C4'	43:BK:12:ARG:HG2	2.10	0.82
34:BA:909:A:H2'	34:BA:910:C:H5'	1.60	0.82
34:BA:1074:G:H2'	34:BA:1075:C:O4'	1.78	0.82
34:BA:1119:C:H2'	34:BA:1120:G:H8	1.45	0.82
34:BA:1226:C:C5'	48:BP:103:THR:HB	2.10	0.82
34:BA:1479:C:O2'	34:BA:1480:G:H5'	1.80	0.82
35:BB:75:C:C6	35:BB:76:A:H2	1.97	0.82
37:BE:213:LEU:HD22	37:BE:214:ILE:CD1	2.09	0.82
38:BF:157:ILE:HD12	38:BF:164:ARG:NE	1.95	0.82
39:BG:135:LEU:C	39:BG:137:SER:H	1.86	0.82
43:BK:123:GLU:HG2	43:BK:124:ALA:N	1.95	0.82
46:BN:50:TYR:CD1	46:BN:54:ARG:HB3	2.14	0.82
46:BN:58:PRO:CA	46:BN:90:GLY:HA3	2.09	0.82
47:BO:38:THR:HG23	47:BO:39:VAL:HG23	1.62	0.82
49:BQ:23:ARG:HA	49:BQ:30:ALA:HA	1.60	0.82
2:AA:85:G:H1	2:AA:97:C:H42	1.27	0.81
2:AA:257:A:O5'	2:AA:257:A:H8	1.63	0.81
2:AA:530:G:H1	2:AA:2021:C:H5'	1.45	0.81
2:AA:656:G:C8	2:AA:656:G:OP2	2.33	0.81
2:AA:711:G:N1	2:AA:720:C:N4	2.13	0.81
2:AA:871:U:H4'	15:AP:90:PHE:HE2	1.42	0.81
2:AA:872:A:O2'	15:AP:31:PHE:CB	2.29	0.81
2:AA:1105:U:O2	9:AI:28:LYS:HA	1.79	0.81
2:AA:1552:G:HO2'	2:AA:1553:A:H5''	1.41	0.81
2:AA:1603:A:N1	2:AA:1604:C:N4	2.27	0.81
2:AA:1991:U:C6	2:AA:1991:U:C3'	2.56	0.81
2:AA:2007:C:H2'	2:AA:2008:C:H5'	1.62	0.81
2:AA:2320:A:N6	16:AQ:9:PRO:CB	2.43	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2484:G:N2	2:AA:2485:G:H1'	1.95	0.81
2:AA:2644:G:N1	2:AA:2645:G:C2	2.47	0.81
3:AC:43:VAL:HG22	3:AC:214:VAL:HG22	1.60	0.81
10:AK:108:LEU:HD23	10:AK:109:LYS:N	1.93	0.81
12:AM:41:ALA:HB1	12:AM:75:PRO:CB	2.10	0.81
23:AX:31:LEU:HD13	23:AX:32:GLN:HG3	1.60	0.81
25:A1:49:ASP:C	25:A1:53:LYS:HE3	2.05	0.81
34:BA:80:G:O6	34:BA:89:C:N3	2.13	0.81
34:BA:277:C:H5''	52:BT:68:ARG:CZ	2.10	0.81
34:BA:583:A:H2'	34:BA:584:G:C8	2.15	0.81
34:BA:1007:C:N4	34:BA:1022:G:N1	2.27	0.81
34:BA:1160:G:H2'	34:BA:1160:G:N3	1.93	0.81
34:BA:1203:C:H6	34:BA:1203:C:O5'	1.62	0.81
35:BB:9:A:N1	35:BB:45:G:O6	2.13	0.81
35:BB:18:G:C2	35:BB:57:G:N2	2.48	0.81
37:BE:23:ARG:HH11	37:BE:24:TRP:N	1.78	0.81
41:BI:37:VAL:HA	41:BI:65:VAL:CG1	2.07	0.81
43:BK:98:LYS:HZ2	43:BK:98:LYS:H	1.24	0.81
43:BK:112:LEU:HD23	43:BK:113:SER:N	1.94	0.81
46:BN:78:GLN:HA	46:BN:103:LEU:CD1	2.09	0.81
2:AA:301:G:OP1	2:AA:301:G:H4'	1.79	0.81
2:AA:697:C:C2'	2:AA:698:C:H5''	2.09	0.81
2:AA:740:U:H2'	2:AA:741:G:H8	1.44	0.81
2:AA:1083:U:H5'	9:AI:40:ALA:HB2	1.62	0.81
2:AA:1126:A:H5''	2:AA:1127:A:OP1	1.79	0.81
2:AA:1964:G:O2'	2:AA:1965:C:OP1	1.98	0.81
2:AA:2020:A:N7	29:A5:9:LYS:HE2	1.94	0.81
2:AA:2125:G:H22	2:AA:2174:C:N4	1.76	0.81
2:AA:2396:G:H2'	2:AA:2396:G:N3	1.95	0.81
2:AA:2576:G:OP1	2:AA:2577:A:OP1	1.96	0.81
2:AA:2623:G:H21	29:A5:22:HIS:CE1	1.97	0.81
3:AC:135:GLY:O	3:AC:136:LEU:HD23	1.79	0.81
4:AD:210:LYS:HA	4:AD:213:LYS:CD	2.10	0.81
5:AE:77:PRO:CG	5:AE:186:GLU:HB2	2.09	0.81
7:AG:27:ILE:C	7:AG:69:ILE:HG23	2.05	0.81
18:AS:68:ARG:HH21	18:AS:110:LYS:HG2	1.45	0.81
20:AU:80:GLU:HG2	20:AU:86:GLU:HG2	1.62	0.81
24:A0:79:LEU:CD2	24:A0:80:PHE:N	2.42	0.81
25:A1:8:ILE:O	25:A1:11:ARG:HG2	1.80	0.81
30:A6:29:ARG:HG2	30:A6:30:ASN:H	1.42	0.81
34:BA:914:A:H2'	34:BA:915:A:H8	1.44	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1317:C:H2'	34:BA:1318:A:O4'	1.80	0.81
34:BA:1507:A:H2'	34:BA:1508:G:H8	1.45	0.81
35:BC:17:U:C4	35:BC:19:G:H8	1.98	0.81
37:BE:55:PHE:CE2	37:BE:218:ALA:HA	2.12	0.81
37:BE:91:PRO:HG2	37:BE:155:LEU:CB	2.07	0.81
39:BG:165:MET:SD	39:BG:165:MET:O	2.38	0.81
43:BK:40:ALA:O	43:BK:43:GLY:N	2.12	0.81
43:BK:134:ILE:HG22	43:BK:135:CYS:N	1.93	0.81
48:BP:48:LEU:HD23	48:BP:52:GLU:HB2	1.62	0.81
2:AA:248:G:H21	2:AA:2431:U:C4'	1.93	0.81
2:AA:253:C:H2'	2:AA:254:G:C5'	2.10	0.81
2:AA:270(H):C:N4	2:AA:270(R):G:C6	2.48	0.81
2:AA:449:A:C2	2:AA:450:G:C4	2.68	0.81
2:AA:529:A:H62	2:AA:2042:A:H2	1.27	0.81
2:AA:541:C:H2'	2:AA:542:C:H6	1.45	0.81
2:AA:588:U:C5	2:AA:589:C:H5	1.99	0.81
2:AA:608:A:C2'	2:AA:609:A:H5'	2.11	0.81
2:AA:715:G:H2'	2:AA:716:A:C8	2.14	0.81
2:AA:861:A:C2'	2:AA:862:G:H5'	2.08	0.81
2:AA:1005:C:H2'	2:AA:1006:C:H6	1.46	0.81
2:AA:1021:A:C2	2:AA:1122:G:H5''	2.15	0.81
2:AA:1022:G:C2	2:AA:1139:G:C2	2.67	0.81
2:AA:1046:A:C4	9:AI:32:THR:HG21	2.15	0.81
2:AA:1134:G:H3'	2:AA:1136:G:OP2	1.79	0.81
2:AA:1304:C:H2'	2:AA:1305:C:O5'	1.79	0.81
2:AA:1356:G:H2'	2:AA:1357:U:C6	2.14	0.81
2:AA:1454:U:O2	2:AA:1454:U:H2'	1.79	0.81
2:AA:1576:U:H5	2:AA:1577:C:C4	1.98	0.81
2:AA:1632:A:H8	2:AA:1632:A:O5'	1.63	0.81
2:AA:1863:G:H2'	2:AA:1864:U:H6	1.42	0.81
2:AA:1913:A:N1	2:AA:1917:U:C4	2.48	0.81
2:AA:1953:A:H62	2:AA:2550:G:H4'	1.45	0.81
2:AA:2378:A:H1'	16:AQ:26:LEU:HD21	1.62	0.81
2:AA:2496:C:H5''	2:AA:2497:A:OP2	1.80	0.81
2:AA:2623:G:N2	29:A5:22:HIS:CE1	2.48	0.81
3:AC:193:ILE:HG21	3:AC:226:PRO:O	1.79	0.81
4:AD:71:ASP:OD1	4:AD:118:GLY:HA3	1.80	0.81
4:AD:76:ARG:HG2	4:AD:113:MET:C	2.04	0.81
4:AD:235:PRO:O	4:AD:236:PHE:HB2	1.80	0.81
6:AF:6:TYR:CD2	6:AF:140:VAL:HA	2.15	0.81
6:AF:84:VAL:O	6:AF:86:GLY:N	2.12	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:214:THR:O	6:AF:216:SER:N	2.12	0.81
7:AG:56:ARG:NE	7:AG:65:GLU:HB2	1.94	0.81
10:AK:1:MET:HE2	10:AK:23:ASP:HA	1.61	0.81
12:AM:19:MET:HB3	12:AM:46:ILE:CD1	2.10	0.81
14:AO:81:VAL:CG1	14:AO:116:HIS:NE2	2.44	0.81
15:AP:46:VAL:CB	15:AP:124:ALA:O	2.27	0.81
15:AP:63:ALA:HA	15:AP:70:ARG:HH22	1.45	0.81
15:AP:82:LYS:NZ	15:AP:84:ARG:NE	2.28	0.81
16:AQ:56:ASP:O	16:AQ:57:THR:HG23	1.79	0.81
19:AT:3:ASP:CG	19:AT:4:VAL:H	1.82	0.81
19:AT:55:GLN:HG2	19:AT:56:ASN:N	1.93	0.81
20:AU:21:LYS:HZ1	20:AU:22:GLN:NE2	1.74	0.81
20:AU:73:HIS:CD2	20:AU:88:PRO:HB2	2.14	0.81
21:AV:53:ASP:CG	21:AV:62:PHE:O	2.23	0.81
21:AV:98:VAL:HG11	21:AV:136:VAL:HB	1.60	0.81
26:A2:51:ALA:HA	26:A2:54:TYR:CD1	2.15	0.81
31:A7:4:THR:N	31:A7:6:GLN:HE22	1.79	0.81
32:A8:22:VAL:CG1	32:A8:23:MET:N	2.43	0.81
34:BA:153:C:H2'	34:BA:154:C:H6	1.46	0.81
34:BA:198:G:O2'	34:BA:199:G:C5'	2.28	0.81
34:BA:285:G:O2'	34:BA:286:G:H5'	1.79	0.81
34:BA:483:C:O2'	34:BA:484:G:OP1	1.96	0.81
34:BA:509:A:N3	34:BA:543:C:O2'	2.13	0.81
34:BA:599:C:N4	34:BA:639:G:H1	1.78	0.81
34:BA:714:G:H1'	34:BA:777:A:N7	1.95	0.81
34:BA:791:G:N1	34:BA:1498:U:OP1	2.12	0.81
34:BA:933:G:H2'	34:BA:934:C:H5'	1.63	0.81
34:BA:1367:C:OP1	44:BL:114:TYR:HA	1.81	0.81
34:BA:1407:C:O2'	34:BA:1408:A:H5'	1.79	0.81
35:BB:23:A:N1	35:BB:24:G:C6	2.48	0.81
35:BB:41:U:C2'	35:BB:42:G:O4'	2.26	0.81
35:BB:49:C:N4	35:BB:65:G:O6	2.13	0.81
35:BB:60:C:H5'	35:BB:61:C:P	2.19	0.81
35:BC:20:G:N3	35:BC:20:G:H3'	1.94	0.81
37:BE:10:LEU:HD23	37:BE:11:LEU:N	1.95	0.81
37:BE:187:LEU:HD21	37:BE:203:GLY:O	1.78	0.81
38:BF:19:GLU:HG2	38:BF:54:ARG:NE	1.96	0.81
38:BF:76:VAL:HG11	38:BF:103:VAL:HG11	1.60	0.81
38:BF:190:ARG:NH1	38:BF:190:ARG:HB3	1.95	0.81
40:BH:114:GLY:O	40:BH:115:VAL:HG13	1.81	0.81
41:BI:75:LEU:O	41:BI:79:LEU:HG	1.80	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:129:GLU:HG3	42:BJ:131:LYS:HE2	1.61	0.81
43:BK:80:ILE:HD12	43:BK:80:ILE:N	1.95	0.81
46:BN:18:ARG:HH21	46:BN:37:GLY:HA2	1.45	0.81
46:BN:92:GLU:OE2	46:BN:96:ARG:HG3	1.80	0.81
47:BO:59:ARG:C	47:BO:60:LEU:HD13	2.04	0.81
47:BO:114:LYS:O	47:BO:117:ARG:HG3	1.80	0.81
49:BQ:29:ARG:HB3	49:BQ:40:CYS:HB3	1.61	0.81
51:BS:26:ARG:HE	51:BS:31:LYS:HB3	1.44	0.81
51:BS:42:ARG:C	51:BS:43:LYS:HD2	2.05	0.81
1:AB:97:G:N2	2:AA:918:A:O2'	2.13	0.81
2:AA:162:U:H4'	2:AA:171:G:H21	1.42	0.81
2:AA:203:C:OP1	2:AA:204:A:H3'	1.79	0.81
2:AA:638:G:H2'	2:AA:639:U:O4'	1.81	0.81
2:AA:973:A:N6	26:A2:81:ARG:H	1.78	0.81
2:AA:997:G:OP1	25:A1:92:ARG:CB	2.29	0.81
2:AA:1129:A:C2	2:AA:2570:G:C1'	2.63	0.81
2:AA:1270:C:H1'	2:AA:1325:G:C5	2.16	0.81
2:AA:1444:G:O3'	2:AA:444(A):A:H8	1.63	0.81
2:AA:1939:U:C1'	2:AA:2592:G:C4'	2.58	0.81
2:AA:2123:G:O6	2:AA:2175:C:N3	2.13	0.81
2:AA:2469:A:H5'	2:AA:2469:A:C8	2.12	0.81
2:AA:2557:G:H2'	2:AA:2558:C:H6	1.42	0.81
2:AA:2581:G:N1	2:AA:2610:C:C6	2.48	0.81
2:AA:2595:G:C2	2:AA:2597:G:O5'	2.33	0.81
6:AF:2:GLU:O	6:AF:18:LEU:HD21	1.81	0.81
9:AJ:64:LYS:HD3	9:AJ:126:GLU:OE2	1.80	0.81
9:AJ:85:LEU:HD11	11:AL:69:ILE:HG13	1.62	0.81
13:AN:7:ARG:HB3	13:AN:44:LYS:CE	2.11	0.81
13:AN:12:ASP:HB2	13:AN:95:GLY:HA3	1.62	0.81
14:AO:129:ALA:O	14:AO:133:VAL:HG23	1.79	0.81
15:AP:66:ASN:C	15:AP:70:ARG:NE	2.38	0.81
16:AQ:27:LEU:HB2	16:AQ:33:ARG:HH22	1.42	0.81
18:AS:24:ILE:HG22	18:AS:35:ILE:HB	1.63	0.81
21:AV:13:LYS:HG2	21:AV:18:MET:HB3	1.61	0.81
23:AX:30:ARG:HH21	23:AX:33:GLN:HG3	1.42	0.81
34:BA:440:A:H61	34:BA:495:U:H5	1.26	0.81
34:BA:792:A:N3	34:BA:794:A:C6	2.48	0.81
34:BA:889:A:H5''	34:BA:890:G:OP1	1.80	0.81
34:BA:921:U:O2'	40:BH:19:MET:O	1.99	0.81
34:BA:1113:C:O2'	34:BA:1114:C:H5'	1.80	0.81
34:BA:1408:A:C2	34:BA:1494:G:N3	2.48	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:49:C:C4	35:BB:50:U:O4	2.33	0.81
41:BI:41:GLU:HG3	41:BI:62:TRP:CE3	2.15	0.81
45:BM:15:THR:OG1	45:BM:94:VAL:HG23	1.81	0.81
48:BP:92:HIS:CD2	48:BP:98:VAL:HG11	2.16	0.81
50:BR:53:HIS:O	50:BR:56:LEU:HB3	1.80	0.81
53:BU:55:ARG:HA	53:BU:55:ARG:NH1	1.94	0.81
2:AA:63:U:H3'	2:AA:63:U:C6	2.15	0.81
2:AA:264:C:O2'	2:AA:265:A:H5''	1.81	0.81
2:AA:338:G:H3'	2:AA:338:G:P	2.20	0.81
2:AA:383:U:HO2'	2:AA:384:U:H5	0.82	0.81
2:AA:552:G:O2'	2:AA:553:U:H5'	1.81	0.81
2:AA:815:C:H2'	2:AA:816:C:H6	1.46	0.81
2:AA:979:G:C8	2:AA:979:G:H3'	2.15	0.81
2:AA:1227:A:OP1	25:A1:13:ARG:HD2	1.80	0.81
2:AA:1449:A:C2	2:AA:449(A):G:H1'	2.15	0.81
2:AA:1528:A:C2	2:AA:1529:A:H1'	2.16	0.81
2:AA:1665:A:O2'	2:AA:1666:G:H5'	1.80	0.81
2:AA:1793:C:H42	2:AA:1825:A:N6	1.79	0.81
2:AA:2312:U:C2'	7:AG:72:LYS:HZ2	1.94	0.81
2:AA:2316:C:C4'	7:AG:151:ILE:HD11	2.11	0.81
2:AA:2498:C:C2'	2:AA:2499:C:H5''	2.11	0.81
2:AA:2721:A:O2'	2:AA:2874:C:H5'	1.80	0.81
4:AD:77:VAL:C	4:AD:113:MET:HG3	2.06	0.81
4:AD:117:SER:OG	4:AD:128:ALA:N	2.13	0.81
5:AE:216:ARG:HD3	5:AE:253:GLN:HA	1.60	0.81
9:AI:64:LYS:HD3	9:AI:126:GLU:OE2	1.79	0.81
13:AN:106:LEU:N	13:AN:106:LEU:HD23	1.96	0.81
20:AU:103:LEU:HD22	20:AU:109:GLU:HA	1.63	0.81
22:AW:20:LEU:CD2	22:AW:23:LEU:HD12	2.03	0.81
24:A0:36:THR:HG22	24:A0:40:LYS:HD3	1.62	0.81
26:A2:33:VAL:O	26:A2:62:GLU:HA	1.81	0.81
34:BA:15:G:H4'	40:BH:24:ARG:HH12	1.45	0.81
34:BA:112:G:O2'	34:BA:354:G:O2'	1.97	0.81
34:BA:190(J):U:O2'	34:BA:190(K):G:H5'	1.80	0.81
34:BA:290:C:H2'	34:BA:291:C:H5'	1.63	0.81
34:BA:611:A:N6	34:BA:629:G:H1	1.79	0.81
34:BA:878:G:O4'	43:BK:3:THR:HG21	1.81	0.81
35:BB:62:A:C2	35:BB:63:C:C2	2.68	0.81
38:BF:10:PHE:CZ	38:BF:178:LEU:HA	2.16	0.81
38:BF:19:GLU:CG	38:BF:54:ARG:HE	1.91	0.81
39:BG:68:TYR:O	39:BG:70:ILE:HG12	1.81	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:98:GLU:O	39:BG:100:ARG:N	2.14	0.81
55:BW:50:GLU:HB2	55:BW:99:LEU:HD12	1.61	0.81
1:AB:37:C:N4	1:AB:44:G:H22	1.79	0.81
2:AA:7:G:H2'	2:AA:8:A:C8	2.15	0.81
2:AA:137:C:O4'	2:AA:137:C:OP2	1.99	0.81
2:AA:218:A:N1	2:AA:235:U:H4'	1.94	0.81
2:AA:270(I):G:H2'	2:AA:270(J):G:O4'	1.80	0.81
2:AA:363(A):A:H2'	2:AA:363(B):G:H5'	1.63	0.81
2:AA:568:U:H2'	2:AA:568:U:O2	1.78	0.81
2:AA:605:C:H3'	6:AF:105:LYS:HZ2	1.40	0.81
2:AA:770:G:H5'	31:A7:10:ARG:HH11	1.45	0.81
2:AA:804:A:O2'	2:AA:806:C:N3	2.12	0.81
2:AA:1155:A:H2'	2:AA:1156:A:H5''	1.60	0.81
2:AA:1301:A:H5'	2:AA:1607:C:H41	1.45	0.81
2:AA:1479:G:N2	2:AA:1515:C:C6	2.49	0.81
2:AA:1571:A:N3	2:AA:1571:A:C3'	2.43	0.81
2:AA:1820:U:O2	4:AD:200:THR:HG23	1.80	0.81
2:AA:1845:G:O2'	2:AA:1846:G:H5'	1.80	0.81
2:AA:1913:A:N7	2:AA:1918:A:C6	2.49	0.81
2:AA:2120:G:H1	2:AA:2178:C:N4	1.79	0.81
2:AA:2458:G:O6	2:AA:2490:G:H2'	1.79	0.81
2:AA:2606:C:H6	2:AA:2606:C:H5'	1.45	0.81
2:AA:2612:C:O2'	2:AA:2613:U:OP1	1.98	0.81
3:AC:181:PRO:HD2	3:AC:184:LYS:CD	2.11	0.81
4:AD:82:TYR:HA	4:AD:89:ASN:HB3	1.63	0.81
11:AL:58:ILE:HG23	11:AL:67:THR:HA	1.63	0.81
12:AM:46:ILE:HG22	12:AM:53:ILE:HD11	1.62	0.81
15:AP:28:ILE:HD11	15:AP:89:PRO:HG3	1.62	0.81
15:AP:86:ARG:NH1	15:AP:120:HIS:HD2	1.77	0.81
20:AU:18:GLU:O	20:AU:21:LYS:HG2	1.81	0.81
21:AV:7:PRO:HG2	21:AV:8:ARG:H	1.44	0.81
25:A1:93:LYS:CB	26:A2:10:LYS:HZ2	1.93	0.81
25:A1:110:VAL:O	25:A1:114:ARG:HG3	1.81	0.81
34:BA:225:C:H2'	34:BA:226:G:H5'	1.63	0.81
34:BA:334:C:H2'	34:BA:335:C:H6	1.42	0.81
34:BA:597:G:N2	43:BK:94:TYR:CE2	2.42	0.81
34:BA:1400:C:H1'	35:BC:34:G:H22	1.46	0.81
34:BA:1479:C:H2'	34:BA:1480:G:C5'	2.10	0.81
35:BB:74:C:C4	35:BB:75:C:C1'	2.60	0.81
37:BE:178:ARG:NH2	37:BE:196:LEU:O	2.13	0.81
38:BF:59:ARG:CZ	38:BF:64:VAL:HG22	2.11	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:98:GLU:HA	39:BG:98:GLU:OE1	1.80	0.81
40:BH:132:ALA:O	40:BH:135:THR:HB	1.81	0.81
42:BJ:43:PHE:O	42:BJ:46:ALA:HB3	1.81	0.81
42:BJ:103:TRP:HZ2	42:BJ:141:VAL:HG21	1.46	0.81
45:BM:5:ARG:HB2	45:BM:5:ARG:NH1	1.96	0.81
45:BM:22:LYS:CE	45:BM:90:LEU:HD12	2.11	0.81
46:BN:32:ILE:O	46:BN:40:ILE:HG13	1.80	0.81
49:BQ:6:LEU:C	49:BQ:8:GLU:H	1.87	0.81
2:AA:270(K):C:H3'	2:AA:270(L):U:O4'	1.81	0.81
2:AA:273(D):C:C4	2:AA:363(B):G:N1	2.48	0.81
2:AA:846:C:O2'	2:AA:847:U:P	2.38	0.81
2:AA:973:A:C6	26:A2:80:TYR:HA	2.15	0.81
2:AA:1054:A:N3	9:AI:28:LYS:HE2	1.96	0.81
2:AA:1081:U:H5''	11:AL:123:ALA:HA	1.62	0.81
2:AA:1535:U:H5''	2:AA:1536:A:O4'	1.80	0.81
2:AA:1732:A:H2'	2:AA:1733:G:H5'	1.62	0.81
2:AA:2371:G:N2	2:AA:2372:G:C4	2.48	0.81
2:AA:2574:G:H2'	2:AA:2575:C:H6	1.38	0.81
2:AA:2713:A:C5'	2:AA:2714:G:OP2	2.29	0.81
2:AA:2785:C:O3'	5:AE:99:VAL:HG13	1.80	0.81
2:AA:2845:G:O2'	2:AA:2846:G:H5'	1.81	0.81
4:AD:70:LYS:O	4:AD:70:LYS:HG3	1.78	0.81
5:AE:39:GLN:HB2	5:AE:174:LEU:CD2	2.11	0.81
5:AE:81:VAL:HB	5:AE:100:TRP:CZ3	2.15	0.81
11:AL:91:GLU:OE1	11:AL:94:ARG:HD2	1.80	0.81
12:AM:45:VAL:HG12	12:AM:46:ILE:N	1.96	0.81
12:AM:61:VAL:HG21	12:AM:139:LEU:HB2	0.86	0.81
15:AP:82:LYS:HZ2	15:AP:84:ARG:NE	1.78	0.81
32:A8:61:MET:O	32:A8:62:LEU:HB2	1.81	0.81
34:BA:21:G:H2'	34:BA:22:G:H8	1.46	0.81
34:BA:778:G:H2'	34:BA:779:C:H6	1.44	0.81
34:BA:973:G:H3'	34:BA:974:A:H5''	1.63	0.81
34:BA:1323:G:H2'	34:BA:1324:A:C8	2.15	0.81
45:BM:35:SER:HB3	45:BM:73:ASP:O	1.79	0.81
46:BN:87:THR:HG22	46:BN:91:ARG:HH21	1.46	0.81
46:BN:126:ARG:O	46:BN:128:ALA:N	2.12	0.81
55:BW:75:ASN:HD22	55:BW:75:ASN:H	1.27	0.81
1:AB:18:G:H3'	7:AG:149:ARG:NH1	1.94	0.81
2:AA:295:G:O6	2:AA:344:G:N1	2.13	0.81
2:AA:617:G:H4'	6:AF:219:ASN:CG	2.06	0.81
2:AA:775:G:C2	2:AA:787:U:H2'	2.15	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:860:U:H2'	2:AA:861:A:H5'	1.63	0.81
2:AA:1006:C:HO2'	12:AM:86:MET:HB3	1.43	0.81
2:AA:1212:G:N7	2:AA:1235:G:O6	2.14	0.81
2:AA:1521:G:O5'	2:AA:1522:G:OP2	1.99	0.81
2:AA:1534:G:N2	2:AA:1538:G:N3	2.28	0.81
2:AA:1669:A:H2'	2:AA:1670:C:H5'	1.61	0.81
2:AA:1853:A:H2'	2:AA:1854:A:H8	1.44	0.81
2:AA:2149:G:H2'	2:AA:2150:U:C5'	2.09	0.81
2:AA:2209:C:O2'	2:AA:2210:G:H8	1.63	0.81
2:AA:2548:G:H1	2:AA:2560:C:N4	1.77	0.81
4:AD:67:LYS:HB3	4:AD:150:GLY:HA2	1.63	0.81
4:AD:162:GLN:CB	4:AD:164:LEU:HD12	2.11	0.81
6:AF:107:ARG:O	6:AF:110:ALA:HB3	1.81	0.81
8:AH:121:GLU:HG2	8:AH:133:LYS:O	1.79	0.81
13:AN:66:LYS:NZ	13:AN:82:ASN:HD21	1.77	0.81
16:AQ:10:MET:HB2	16:AQ:13:ARG:HH21	1.41	0.81
20:AU:11:GLN:HG3	20:AU:21:LYS:NZ	1.96	0.81
22:AW:45:ARG:HE	22:AW:49:LEU:CG	1.94	0.81
25:A1:63:GLN:O	25:A1:64:ARG:C	2.22	0.81
29:A5:40:LYS:HE2	29:A5:46:CYS:HB2	1.61	0.81
34:BA:50:A:C2	34:BA:360:A:N3	2.48	0.81
34:BA:474:G:C5'	51:BS:81:ARG:HG3	2.10	0.81
34:BA:708:C:O2'	34:BA:709:G:H5'	1.81	0.81
34:BA:826:C:H2'	34:BA:827:U:H6	1.43	0.81
34:BA:1483:A:H2'	34:BA:1484:C:H5'	1.63	0.81
35:BB:60:C:C5'	35:BB:61:C:O5'	2.28	0.81
35:BC:48:C:O2	35:BC:48:C:C2'	2.29	0.81
37:BE:208:ILE:HG21	37:BE:239:VAL:HG11	1.61	0.81
42:BJ:74:GLU:HB3	42:BJ:91:VAL:HG23	1.63	0.81
46:BN:92:GLU:HG3	46:BN:96:ARG:HD2	1.62	0.81
48:BP:81:LEU:HD22	48:BP:82:MET:H	1.44	0.81
54:BV:62:ILE:HG13	54:BV:63:THR:N	1.93	0.81
55:BW:26:ASN:HD22	55:BW:27:LYS:H	1.26	0.81
56:BX:12:LYS:CG	56:BX:18:TYR:HB3	2.11	0.81
1:AB:76:G:N2	1:AB:102:G:C2	2.49	0.81
2:AA:291:C:N4	2:AA:349:G:C6	2.49	0.81
2:AA:594:U:C4	2:AA:595:C:N4	2.48	0.81
2:AA:740:U:O2'	2:AA:741:G:OP1	1.97	0.81
2:AA:930:U:P	23:AX:37:LEU:HD21	2.21	0.81
2:AA:1058:G:HO2'	9:AI:3:ILE:H	1.28	0.81
2:AA:1206:G:H1'	2:AA:1242:A:N6	1.95	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1264:G:N7	2:AA:1265:A:C4	2.49	0.81
2:AA:1336:A:H2'	2:AA:1337:G:H8	1.46	0.81
2:AA:1716:U:H6	2:AA:1716:U:O5'	1.64	0.81
2:AA:1762:A:H3'	2:AA:1762:A:H8	1.45	0.81
2:AA:1903:G:C2	2:AA:1904:G:C5	2.69	0.81
2:AA:1996:C:C6	2:AA:1996:C:OP1	2.34	0.81
2:AA:2111:C:H41	2:AA:2120:G:H1'	1.40	0.81
2:AA:2147:G:H2'	2:AA:2148:G:C8	2.15	0.81
2:AA:2316:C:H5'	7:AG:142:ALA:HB1	1.63	0.81
2:AA:2482:G:H2'	2:AA:2483:C:H5'	1.61	0.81
2:AA:2690:C:O5'	2:AA:2690:C:H6	1.62	0.81
2:AA:2713:A:H5''	2:AA:2714:G:OP2	1.81	0.81
2:AA:2893:G:C8	2:AA:2893:G:OP2	2.34	0.81
3:AC:78:ALA:HB1	3:AC:82:LYS:HB2	1.63	0.81
3:AC:129:ARG:O	3:AC:130:ILE:HD12	1.81	0.81
5:AE:76:PRO:CA	5:AE:292:PRO:HG2	2.10	0.81
9:AJ:62:VAL:HG13	9:AJ:100:ALA:C	2.06	0.81
10:AK:21:VAL:HG11	10:AK:30:LEU:HD11	1.61	0.81
11:AL:129:GLU:HG2	11:AL:133:LYS:HE3	1.62	0.81
13:AN:102:VAL:HG12	13:AN:103:ALA:N	1.95	0.81
14:AO:80:ASP:OD1	14:AO:93:VAL:HB	1.81	0.81
15:AP:15:THR:OG1	15:AP:20:ILE:HG23	1.80	0.81
16:AQ:61:ALA:CB	16:AQ:88:ALA:HB2	2.04	0.81
19:AT:16:ASN:HB2	19:AT:20:PHE:CZ	2.14	0.81
24:A0:64:ARG:HG2	24:A0:65:LEU:H	1.45	0.81
24:A0:77:ARG:HH11	24:A0:77:ARG:HG3	1.45	0.81
28:A4:5:LEU:N	28:A4:5:LEU:HD23	1.95	0.81
31:A7:25:LYS:HE2	31:A7:25:LYS:HA	1.62	0.81
31:A7:34:ARG:NH1	31:A7:42:LEU:HA	1.96	0.81
32:A8:26:LYS:HD2	32:A8:44:LYS:CA	2.11	0.81
34:BA:453:A:N6	34:BA:480:U:N3	2.28	0.81
35:BB:59:U:N3	35:BB:60:C:C4	2.48	0.81
39:BG:4:TYR:CE2	39:BG:8:VAL:HG22	2.16	0.81
39:BG:31:CYS:SG	39:BG:33:MET:SD	2.79	0.81
41:BI:11:ASN:ND2	41:BI:13:ASN:HD22	1.77	0.81
41:BI:14:LEU:HD13	41:BI:18:GLN:CG	2.10	0.81
45:BM:36:GLY:O	45:BM:38:ILE:HG23	1.80	0.81
45:BM:44:VAL:HG11	45:BM:46:ARG:HE	1.46	0.81
49:BQ:24:CYS:N	49:BQ:33:VAL:HG11	1.94	0.81
52:BT:88:TYR:HA	52:BT:91:ARG:NH2	1.95	0.81
52:BT:96:GLN:C	52:BT:96:GLN:CD	2.49	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:108:U:H4'	2:AA:348:G:N2	1.95	0.81
2:AA:199:A:H2'	2:AA:2433:A:H61	1.46	0.81
2:AA:489:G:N2	2:AA:491:G:H1'	1.95	0.81
2:AA:610:C:N4	2:AA:618(A):C:H42	1.77	0.81
2:AA:627:A:H4'	2:AA:627:A:OP2	1.81	0.81
2:AA:991:C:H5'	2:AA:1186:G:OP2	1.81	0.81
2:AA:1012:U:H3'	2:AA:1012:U:H6	1.45	0.81
2:AA:1208:C:H2'	2:AA:1209:G:H8	1.45	0.81
2:AA:2316:C:H4'	7:AG:151:ILE:CD1	2.11	0.81
2:AA:2376:A:H2'	2:AA:2377:A:C8	2.16	0.81
6:AF:193:LEU:HD13	6:AF:223:LEU:CB	2.10	0.81
6:AF:197:SER:HB3	6:AF:239:ALA:N	1.96	0.81
7:AG:49:PRO:CB	7:AG:72:LYS:C	2.54	0.81
8:AH:102:LEU:CD2	8:AH:122:ILE:HD13	2.10	0.81
9:AI:13:LEU:HA	9:AI:17:GLU:OE1	1.81	0.81
11:AL:18:ALA:O	11:AL:39:CYS:HB3	1.81	0.81
12:AM:84:ARG:CD	12:AM:98:PHE:HD2	1.94	0.81
14:AO:66:VAL:H	14:AO:67:ARG:HH21	1.27	0.81
18:AS:49:LYS:HD3	18:AS:50:VAL:N	1.95	0.81
24:A0:96:ARG:HD2	24:A0:115:GLU:OE1	1.81	0.81
34:BA:580:U:N3	34:BA:761:G:O6	2.14	0.81
34:BA:620:C:C2	39:BG:135:LEU:HD13	2.16	0.81
35:BB:34:G:C2	35:BB:35:A:C6	2.68	0.81
35:BB:59:U:P	35:BB:59:U:C6	2.74	0.81
41:BI:26:ILE:HG22	41:BI:30:LEU:HD11	1.62	0.81
43:BK:64:LYS:HG2	43:BK:79:VAL:HG21	1.60	0.81
44:BL:35:GLU:O	44:BL:38:GLN:HG2	1.80	0.81
47:BO:27:LEU:O	47:BO:29:GLY:N	2.14	0.81
2:AA:207:A:C2	2:AA:208:C:H1'	2.17	0.80
2:AA:220:G:C4'	2:AA:234:C:H4'	2.10	0.80
2:AA:280:C:O2'	2:AA:281:G:H3'	1.81	0.80
2:AA:284:U:N3	2:AA:357:A:N6	2.29	0.80
2:AA:343:C:C2	2:AA:344:G:C4	2.69	0.80
2:AA:640:C:H42	2:AA:647:G:H1	1.29	0.80
2:AA:977:G:N7	2:AA:987:G:N2	2.28	0.80
2:AA:1305:C:N3	2:AA:1623:G:O6	2.14	0.80
2:AA:1602:U:H2'	2:AA:1603:A:O5'	1.80	0.80
2:AA:1612:C:H3'	31:A7:3:ARG:NH2	1.96	0.80
2:AA:1952:A:H1'	2:AA:2560:C:O2'	1.80	0.80
2:AA:2189:U:O2'	2:AA:2190:G:H5'	1.81	0.80
2:AA:2403:C:N4	2:AA:2414:G:N1	2.23	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2842:G:H1	2:AA:2875:C:H42	0.83	0.80
2:AA:2893:G:O2'	2:AA:2894:G:O4'	1.99	0.80
4:AD:166:LYS:CD	4:AD:171:VAL:HG12	2.10	0.80
5:AE:38:VAL:HG22	5:AE:81:VAL:CG2	2.10	0.80
6:AF:148:VAL:HG12	6:AF:148:VAL:O	1.80	0.80
6:AF:193:LEU:HB2	6:AF:233:THR:HB	1.63	0.80
7:AG:84:LEU:O	7:AG:88:LEU:HB2	1.80	0.80
9:AJ:71:ILE:HG22	9:AJ:75:LYS:HE3	1.63	0.80
11:AL:106:GLU:HA	11:AL:125:MET:SD	2.21	0.80
18:AS:29:LEU:HD12	18:AS:33:ARG:CD	2.11	0.80
19:AT:34:LYS:HE3	19:AT:52:VAL:O	1.79	0.80
20:AU:46:ASP:OD1	20:AU:47:THR:N	2.14	0.80
21:AV:168:VAL:HG12	21:AV:169:VAL:H	1.43	0.80
34:BA:52:G:H2'	34:BA:53:A:C8	2.16	0.80
34:BA:190(I):G:H2'	34:BA:190(J):U:C6	2.16	0.80
34:BA:942:G:N2	44:BL:124:GLN:HE22	1.79	0.80
34:BA:970:C:H42	48:BP:126:LYS:CE	1.93	0.80
34:BA:1188:A:H2'	34:BA:1189:C:H6	1.44	0.80
34:BA:1236:A:H2'	34:BA:1237:C:C6	2.15	0.80
35:BB:53:G:C6	35:BB:54:U:C4	2.69	0.80
36:B1:53:G:H2'	36:B1:54:G:H8	1.45	0.80
37:BE:167:PRO:HG2	37:BE:168:THR:H	1.47	0.80
38:BF:142:MET:HA	38:BF:146:ALA:CB	2.10	0.80
43:BK:9:MET:HG2	43:BK:13:ILE:CD1	2.09	0.80
50:BR:25:THR:HA	50:BR:28:GLN:CG	2.10	0.80
55:BW:13:LEU:HD12	55:BW:13:LEU:N	1.96	0.80
56:BX:6:ARG:HH11	56:BX:15:ARG:HH22	1.26	0.80
1:AB:42:C:H2'	1:AB:43:C:C6	2.16	0.80
2:AA:107:C:H2'	2:AA:108:U:C6	2.16	0.80
2:AA:146:G:C2'	2:AA:147:U:H5'	2.11	0.80
2:AA:288:C:H6	2:AA:288:C:H5'	1.46	0.80
2:AA:414:C:H4'	2:AA:1863:G:N2	1.96	0.80
2:AA:482:A:N6	2:AA:506:G:C4	2.49	0.80
2:AA:974(A):C:H1'	2:AA:989:G:H22	1.45	0.80
2:AA:1158:C:H5'	23:AX:31:LEU:HB3	1.64	0.80
2:AA:1255:U:H5''	2:AA:1256:G:H5''	1.63	0.80
2:AA:1650:G:H5'	24:A0:104:ARG:NH2	1.96	0.80
2:AA:1862:G:H2'	2:AA:1863:G:H8	1.46	0.80
2:AA:1889:A:H2'	2:AA:1890:A:H8	1.42	0.80
2:AA:1930:G:O2'	2:AA:1931:U:O5'	1.98	0.80
2:AA:2469:A:H8	2:AA:2469:A:C5'	1.93	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2882:A:H5''	24:A0:98:LEU:HD21	1.63	0.80
3:AC:46:LYS:O	3:AC:210:ARG:HG3	1.79	0.80
4:AD:216:ALA:C	4:AD:223:ASN:N	2.33	0.80
5:AE:269:ILE:HG13	5:AE:297:LYS:CG	2.11	0.80
10:AK:12:LYS:HE3	10:AK:14:LYS:HE3	1.62	0.80
10:AK:28:ASN:CG	10:AK:32:LYS:HG3	2.06	0.80
10:AK:125:GLY:C	10:AK:144:HIS:HA	2.05	0.80
15:AP:58:HIS:CG	15:AP:59:ASN:N	2.50	0.80
20:AU:20:HIS:HD2	20:AU:23:VAL:HB	1.46	0.80
25:A1:93:LYS:H	26:A2:10:LYS:NZ	1.79	0.80
28:A4:58:LYS:HG2	28:A4:62:ARG:CZ	2.10	0.80
33:A9:7:VAL:HG22	33:A9:34:GLN:HG2	1.63	0.80
34:BA:141:A:H1'	34:BA:182:U:H1'	1.63	0.80
34:BA:974:A:H5'	34:BA:975:A:OP1	1.82	0.80
34:BA:1105:A:H2'	34:BA:1106:G:H8	1.45	0.80
34:BA:1507:A:H2'	34:BA:1508:G:C8	2.16	0.80
36:B1:18:U:H2'	36:B1:19:G:O4'	1.81	0.80
36:B1:20:A:N6	36:B1:34:U:H3	1.78	0.80
40:BH:101:ILE:HG12	40:BH:118:ILE:O	1.82	0.80
40:BH:151:LEU:HD22	43:BK:65:TYR:O	1.79	0.80
42:BJ:146:GLU:HG3	42:BJ:149:ARG:HH21	1.46	0.80
48:BP:65:LYS:O	48:BP:66:LEU:HD23	1.80	0.80
49:BQ:20:ALA:O	49:BQ:21:TYR:HB3	1.82	0.80
50:BR:41:GLU:N	50:BR:44:LYS:HZ1	1.79	0.80
52:BT:59:ILE:HG13	52:BT:60:ILE:N	1.96	0.80
2:AA:137:C:N3	2:AA:142:G:C2	2.49	0.80
2:AA:481:G:N2	2:AA:509:C:N3	2.30	0.80
2:AA:568:U:O2	2:AA:570:G:C8	2.34	0.80
2:AA:609:A:H61	2:AA:619:G:H21	1.27	0.80
2:AA:1084:A:OP2	9:AI:35:ALA:O	1.98	0.80
2:AA:1239:G:N3	2:AA:1240:U:C5	2.49	0.80
2:AA:1403:C:C4'	2:AA:1471:A:H5'	2.10	0.80
2:AA:1703:G:N2	2:AA:1704:G:H1'	1.97	0.80
2:AA:1911:U:O4	2:AA:1918:A:N7	2.15	0.80
2:AA:2055:C:C2'	2:AA:2504:U:H5'	2.11	0.80
2:AA:2611:U:H3'	2:AA:2611:U:OP2	1.82	0.80
2:AA:2755:C:O5'	2:AA:2755:C:H6	1.63	0.80
3:AC:161:ILE:HD12	3:AC:174:PRO:HG2	1.63	0.80
5:AE:228:ARG:HD2	5:AE:228:ARG:H	1.44	0.80
13:AN:19:VAL:HG13	13:AN:42:THR:C	2.06	0.80
16:AQ:23:ARG:HH22	16:AQ:48:VAL:HG21	1.46	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:89:ASP:OD1	26:A2:51:ALA:C	2.24	0.80
28:A4:58:LYS:HG2	28:A4:62:ARG:HH21	1.47	0.80
34:BA:375:U:C4'	51:BS:17:TYR:HE2	1.94	0.80
34:BA:551:U:H2'	34:BA:552:U:H6	1.40	0.80
34:BA:658:G:C2'	34:BA:659:U:H5'	2.12	0.80
34:BA:1015:A:H2'	34:BA:1016:A:C8	2.15	0.80
34:BA:1347:G:H8	44:BL:107:ARG:HB3	1.46	0.80
34:BA:1361:G:H8	34:BA:1361:G:H3'	1.46	0.80
34:BA:1517:G:N2	34:BA:1518:A:H1'	1.95	0.80
38:BF:182:ILE:HG12	38:BF:203:PHE:CD1	2.16	0.80
39:BG:92:VAL:HG12	39:BG:96:LEU:CD1	2.10	0.80
40:BH:125:SER:O	40:BH:127:ASN:N	2.13	0.80
47:BO:33:ARG:HE	47:BO:33:ARG:HA	1.47	0.80
47:BO:104:VAL:O	47:BO:106:ASP:N	2.13	0.80
49:BQ:9:LYS:HD3	49:BQ:10:ALA:N	1.96	0.80
2:AA:23:G:H2'	2:AA:24:G:C5'	2.11	0.80
2:AA:83:G:C6	2:AA:102:G:H2'	2.16	0.80
2:AA:380:U:H2'	2:AA:381:G:H5'	1.61	0.80
2:AA:763:G:O2'	2:AA:764:A:C5'	2.30	0.80
2:AA:977:G:O2'	2:AA:978:G:H5'	1.82	0.80
2:AA:1479:G:H2'	2:AA:1480:G:H8	1.45	0.80
2:AA:1484:G:H1	2:AA:1505:C:H42	1.30	0.80
2:AA:1790:C:H5''	2:AA:1828:G:H22	1.46	0.80
2:AA:2255:G:C2	2:AA:2256:G:H1'	2.16	0.80
2:AA:2510:C:O2	2:AA:2578:G:N1	2.11	0.80
4:AD:116:MET:C	4:AD:117:SER:HG	1.89	0.80
7:AG:68:PRO:O	7:AG:69:ILE:HG13	1.81	0.80
8:AH:102:LEU:HB2	8:AH:104:LEU:HD11	1.64	0.80
9:AI:102:ILE:HG21	9:AI:118:LEU:CD1	2.11	0.80
10:AK:115:ILE:HA	10:AK:131:VAL:HG13	1.62	0.80
11:AL:132:ALA:CA	11:AL:137:ILE:HB	2.11	0.80
12:AM:94:GLY:O	12:AM:98:PHE:HD1	1.63	0.80
13:AN:98:ILE:HG21	13:AN:118:ALA:HA	1.63	0.80
15:AP:76:GLY:HA3	15:AP:132:VAL:HG21	1.62	0.80
20:AU:19:ARG:HA	20:AU:22:GLN:NE2	1.97	0.80
21:AV:119:ASN:HB3	21:AV:120:LEU:HD23	1.63	0.80
22:AW:53:ILE:O	22:AW:57:LYS:HG3	1.82	0.80
25:A1:13:ARG:HH11	25:A1:13:ARG:CA	1.94	0.80
25:A1:55:ARG:CB	25:A1:58:ARG:HE	1.95	0.80
31:A7:21:ARG:NH2	31:A7:42:LEU:HB3	1.96	0.80
34:BA:242:C:C2	34:BA:285:G:N2	2.49	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:741:G:O2'	34:BA:742:G:H5'	1.81	0.80
34:BA:1053:G:C5'	34:BA:1054:C:H5'	2.10	0.80
34:BA:1489:G:H2'	34:BA:1490:C:H5''	1.61	0.80
34:BA:1539:C:H2'	34:BA:1540:U:H5'	1.63	0.80
35:BB:65:G:C2	35:BB:66:A:C5	2.70	0.80
37:BE:135:GLN:C	37:BE:139:LYS:HE3	2.07	0.80
39:BG:26:CYS:HA	39:BG:31:CYS:HA	1.63	0.80
39:BG:135:LEU:O	39:BG:137:SER:N	2.14	0.80
41:BI:70:ASP:OD1	41:BI:71:ARG:HG2	1.81	0.80
1:AB:100:G:H2'	1:AB:101:A:C8	2.16	0.80
2:AA:13:A:H2	2:AA:526:A:N7	1.79	0.80
2:AA:292:C:C6	2:AA:293:U:O4	2.35	0.80
2:AA:467:G:C2'	2:AA:468:G:H5'	2.11	0.80
2:AA:692:C:O2'	2:AA:693:C:H5'	1.82	0.80
2:AA:971:C:C2	2:AA:972:G:H1'	2.16	0.80
2:AA:980:A:C2	2:AA:2038:G:O4'	2.35	0.80
2:AA:1036:G:OP1	8:AH:59:HIS:CE1	2.34	0.80
2:AA:1521:G:H3'	2:AA:1522:G:C8	2.16	0.80
2:AA:1651:G:N1	2:AA:2006:C:N4	1.93	0.80
2:AA:1676:A:O2'	2:AA:1677:A:H5'	1.81	0.80
2:AA:1918:A:OP2	2:AA:1918:A:C3'	2.30	0.80
2:AA:2573:C:H6	2:AA:2573:C:H3'	1.45	0.80
2:AA:2807:G:O6	2:AA:2893:G:N7	2.14	0.80
6:AF:82:GLN:N	6:AF:87:ARG:HD3	1.97	0.80
7:AG:97:GLN:HB2	7:AG:106:PHE:CD2	2.17	0.80
8:AH:137:LYS:HD2	8:AH:138:GLN:N	1.96	0.80
13:AN:9:LYS:HG3	13:AN:18:GLU:CG	2.10	0.80
13:AN:98:ILE:CG2	13:AN:99:PHE:N	2.42	0.80
15:AP:11:LYS:HB3	15:AP:12:PRO:HD2	1.63	0.80
15:AP:57:ARG:O	15:AP:61:LEU:CG	2.30	0.80
20:AU:81:LYS:HZ2	20:AU:84:GLY:N	1.79	0.80
21:AV:19:ILE:HD13	21:AV:36:ARG:CD	2.12	0.80
21:AV:126:GLY:O	21:AV:129:ARG:HB2	1.81	0.80
22:AW:57:LYS:O	22:AW:60:GLN:HB3	1.80	0.80
25:A1:6:THR:O	25:A1:9:VAL:HB	1.82	0.80
30:A6:19:GLY:O	30:A6:20:PHE:HB2	1.81	0.80
34:BA:187:C:H1'	55:BW:104:LEU:HD23	1.63	0.80
34:BA:251:G:H4'	34:BA:252:U:O5'	1.81	0.80
34:BA:414:A:H2'	34:BA:415:A:H8	1.44	0.80
34:BA:430:A:H4'	39:BG:7:PRO:HB3	1.63	0.80
34:BA:438:G:H22	34:BA:496:A:P	2.04	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:560:U:O4'	34:BA:566:G:N2	2.15	0.80
34:BA:765:G:H21	34:BA:816:A:H2	1.29	0.80
34:BA:768:A:N7	34:BA:769:G:N7	2.30	0.80
34:BA:1532:U:H3'	34:BA:1532:U:C6	2.16	0.80
37:BE:163:PHE:HZ	37:BE:201:ILE:HG12	1.44	0.80
37:BE:168:THR:OG1	37:BE:192:SER:HA	1.81	0.80
42:BJ:65:ALA:CA	42:BJ:68:ASN:HD22	1.93	0.80
44:BL:19:LEU:HD22	44:BL:59:PHE:CB	2.12	0.80
47:BO:77:LEU:O	47:BO:78:GLN:HG3	1.82	0.80
2:AA:204:A:OP1	2:AA:206:U:H1'	1.81	0.80
2:AA:574:C:N4	2:AA:2054:A:H5''	1.96	0.80
2:AA:791:C:N3	2:AA:794:G:H5'	1.96	0.80
2:AA:1352:U:H1'	2:AA:1570:A:C2	2.15	0.80
2:AA:1439:A:H2'	2:AA:1440:G:C5'	2.11	0.80
2:AA:1548:C:H2'	2:AA:1549:C:C6	2.16	0.80
2:AA:1650:G:O6	2:AA:2008:C:C4	2.35	0.80
2:AA:1695:G:H3'	2:AA:1695:G:N3	1.97	0.80
2:AA:1899:G:N2	2:AA:1902:C:H41	1.78	0.80
2:AA:2137:C:H5	2:AA:2154:G:N2	1.79	0.80
2:AA:2313:C:C5'	7:AG:51:ARG:HD3	2.08	0.80
2:AA:2320:A:H5'	2:AA:2321:G:C5	2.16	0.80
2:AA:2354:G:O2'	27:A3:31:VAL:HG13	1.81	0.80
2:AA:2432:A:C2	2:AA:2433:A:C2	2.70	0.80
2:AA:2589:A:O2'	2:AA:2590:A:H5'	1.82	0.80
2:AA:2737:G:H2'	2:AA:2738:A:H8	1.45	0.80
2:AA:2848:G:H22	2:AA:2867:G:C1'	1.94	0.80
2:AA:2852:G:N2	2:AA:2865:U:O2	2.14	0.80
6:AF:5:ILE:HA	6:AF:139:VAL:CG1	2.12	0.80
8:AH:34:ARG:CZ	8:AH:74:MET:HG2	2.11	0.80
11:AL:14:PRO:CB	11:AL:17:LYS:HD2	2.08	0.80
11:AL:125:MET:O	11:AL:128:ILE:HB	1.79	0.80
12:AM:42:GLU:O	12:AM:132:LEU:C	2.23	0.80
14:AO:114:VAL:HG21	14:AO:133:VAL:N	1.96	0.80
15:AP:17:ARG:HA	15:AP:22:GLY:HA3	1.63	0.80
16:AQ:27:LEU:HD13	16:AQ:27:LEU:O	1.82	0.80
19:AT:56:ASN:HD21	19:AT:62:LYS:CE	1.95	0.80
20:AU:15:PRO:O	20:AU:18:GLU:HB2	1.81	0.80
20:AU:49:GLU:HB3	20:AU:97:ARG:HD2	1.63	0.80
21:AV:37:LYS:N	21:AV:40:ASP:OD1	2.14	0.80
21:AV:103:ARG:CZ	21:AV:137:ASP:HB3	2.10	0.80
25:A1:93:LYS:O	25:A1:94:VAL:HG23	1.80	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:43:C:H5''	51:BS:12:LYS:CB	2.11	0.80
34:BA:129(A):G:H2'	34:BA:190(E):U:C6	2.16	0.80
34:BA:449:C:H2'	34:BA:450:G:O4'	1.81	0.80
34:BA:665:A:H2'	34:BA:725:G:H21	1.44	0.80
34:BA:922:G:H1'	34:BA:1398:A:C2	2.16	0.80
34:BA:1064:G:H1'	34:BA:1066:C:N3	1.96	0.80
34:BA:1128:C:H42	34:BA:1143:G:N2	1.80	0.80
34:BA:1235:U:H5''	56:BX:3:LYS:HB2	1.63	0.80
34:BA:1240:U:C2	42:BJ:32:ARG:NH2	2.50	0.80
34:BA:1443:G:OP2	34:BA:1446:A:H5''	1.80	0.80
37:BE:163:PHE:CD1	37:BE:185:ILE:HB	2.17	0.80
44:BL:74:ILE:O	44:BL:77:ILE:HB	1.81	0.80
44:BL:93:ARG:NH2	44:BL:97:LYS:HD3	1.95	0.80
47:BO:34:ARG:NH2	47:BO:61:THR:HG21	1.96	0.80
50:BR:35:ARG:HH12	50:BR:59:MET:HG3	1.47	0.80
53:BU:56:THR:HB	53:BU:58:LEU:CD1	2.12	0.80
56:BX:10:ARG:HH21	56:BX:13:ILE:HD12	1.44	0.80
2:AA:27:G:C2	2:AA:512:G:C2'	2.64	0.80
2:AA:274:G:H2'	2:AA:275:G:H5'	1.63	0.80
2:AA:511:U:H5	2:AA:512:G:C2	2.00	0.80
2:AA:929:G:N7	2:AA:930:U:C5	2.49	0.80
2:AA:1138:G:OP1	12:AM:82:THR:HG22	1.80	0.80
2:AA:1690:A:C2	2:AA:1691:C:O4'	2.35	0.80
2:AA:1801:G:N1	2:AA:2207:C:H4'	1.97	0.80
2:AA:1830:C:O2'	2:AA:1831:G:H5'	1.82	0.80
2:AA:2015:A:N7	29:A5:6:VAL:HG11	1.97	0.80
2:AA:2359:C:H4'	32:A8:52:LYS:HE2	1.62	0.80
2:AA:2424:C:H5'	2:AA:2425:A:H5'	1.64	0.80
3:AC:77:ILE:HD13	3:AC:123:VAL:HG22	1.63	0.80
3:AC:80:GLY:H	3:AC:83:ILE:HG13	1.47	0.80
8:AH:102:LEU:HD23	8:AH:114:ILE:O	1.81	0.80
10:AK:7:LYS:HG3	10:AK:12:LYS:CG	2.12	0.80
10:AK:115:ILE:HG12	10:AK:131:VAL:HG13	1.64	0.80
17:AR:11:THR:HG22	17:AR:12:ASP:H	1.46	0.80
18:AS:19:LEU:HD22	29:A5:25:LEU:CG	2.10	0.80
20:AU:42:VAL:CA	20:AU:112:LEU:HD13	2.09	0.80
26:A2:6:GLN:HE22	26:A2:10:LYS:CB	1.94	0.80
28:A4:5:LEU:HD21	28:A4:9:ALA:HA	1.63	0.80
34:BA:220:G:O2'	34:BA:221:C:H5'	1.80	0.80
34:BA:253:U:O2	34:BA:275:G:H1'	1.82	0.80
34:BA:394:G:H2'	34:BA:395:C:C6	2.16	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:677:U:H3	34:BA:713:G:H1	1.27	0.80
34:BA:872:A:O2'	34:BA:873:A:H5''	1.82	0.80
34:BA:1401:G:H2'	34:BA:1402:C:O4'	1.81	0.80
37:BE:192:SER:O	37:BE:194:PRO:HD2	1.80	0.80
38:BF:52:LEU:HD23	38:BF:52:LEU:H	1.46	0.80
39:BG:77:ASN:O	39:BG:80:GLU:HB2	1.82	0.80
39:BG:191:ARG:HD3	39:BG:191:ARG:C	2.07	0.80
40:BH:41:VAL:CG2	40:BH:113:ALA:HA	2.12	0.80
40:BH:81:GLU:HB3	40:BH:90:VAL:CG2	2.02	0.80
43:BK:6:ILE:HG23	43:BK:7:ALA:N	1.95	0.80
43:BK:112:LEU:HD21	43:BK:131:GLY:C	2.07	0.80
44:BL:116:LYS:HB3	44:BL:122:ALA:HA	1.62	0.80
48:BP:16:ASP:HA	48:BP:19:LEU:CG	2.11	0.80
54:BV:15:LEU:HD12	54:BV:44:MET:HE1	1.63	0.80
55:BW:75:ASN:H	55:BW:75:ASN:ND2	1.79	0.80
2:AA:66:C:C4	2:AA:89:G:N1	2.49	0.80
2:AA:272:G:H2'	2:AA:273:G:O4'	1.81	0.80
2:AA:311:A:H2'	2:AA:311:A:N3	1.97	0.80
2:AA:452:G:C2	2:AA:458:G:C2	2.70	0.80
2:AA:1014:U:C2'	2:AA:1015:G:H5'	2.12	0.80
2:AA:1422:G:N1	2:AA:1576:U:N3	2.30	0.80
2:AA:1496:A:H2'	2:AA:1497:U:C5	2.17	0.80
2:AA:1759:A:H2'	2:AA:1760:A:O5'	1.81	0.80
2:AA:1826:G:C2'	2:AA:1827:C:H5'	2.12	0.80
2:AA:1864:U:H2'	2:AA:1869:G:C5'	2.12	0.80
2:AA:2010:G:C2'	2:AA:2011:U:H5'	2.11	0.80
2:AA:2403:C:H42	2:AA:2414:G:H1	0.82	0.80
2:AA:2455:G:O2'	2:AA:2456:C:H5'	1.82	0.80
2:AA:2607:G:C2'	2:AA:2608:G:H5'	2.11	0.80
5:AE:41:PHE:HB2	5:AE:311:PHE:CE1	2.17	0.80
5:AE:46:ALA:HB3	5:AE:72:VAL:CG2	2.07	0.80
6:AF:153:VAL:HG11	6:AF:207:LEU:CD1	2.11	0.80
8:AH:28:PRO:O	8:AH:30:GLY:N	2.14	0.80
10:AK:93:ILE:O	10:AK:93:ILE:HG13	1.81	0.80
11:AL:20:PRO:HG2	11:AL:23:PRO:HG2	1.64	0.80
18:AS:11:ARG:NH2	18:AS:98:LYS:HB3	1.96	0.80
26:A2:19:VAL:HG12	26:A2:21:ARG:HH22	1.46	0.80
30:A6:21:TYR:C	30:A6:22:TYR:CG	2.59	0.80
31:A7:32:ALA:HA	31:A7:35:ARG:CG	2.11	0.80
34:BA:449:C:C2	34:BA:450:G:H1'	2.16	0.80
34:BA:450:G:H1	34:BA:483:C:H42	1.29	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:763:G:H2'	34:BA:764:C:C6	2.16	0.80
34:BA:1529:G:H5''	34:BA:1530:G:OP2	1.81	0.80
35:BB:53:G:H2'	35:BB:54:U:C5	2.16	0.80
37:BE:15:VAL:HG22	37:BE:209:ARG:NH1	1.97	0.80
37:BE:68:ILE:HB	37:BE:70:PHE:CE1	2.16	0.80
37:BE:169:LYS:HZ3	37:BE:170:GLU:HA	1.43	0.80
47:BO:43:VAL:HG23	47:BO:55:VAL:HG21	1.61	0.80
47:BO:53:ARG:CZ	47:BO:92:ASP:OD2	2.29	0.80
54:BV:5:LEU:CD1	54:BV:9:VAL:HG13	2.11	0.80
54:BV:20:LEU:HD12	54:BV:21:GLU:N	1.97	0.80
55:BW:88:VAL:O	55:BW:92:LEU:HG	1.81	0.80
2:AA:50:U:H3'	2:AA:50:U:H6	1.45	0.80
2:AA:80:G:H1	2:AA:106:C:H42	0.81	0.80
2:AA:125:G:C5'	31:A7:19:ARG:HD2	2.12	0.80
2:AA:218:A:H3'	2:AA:219:G:C8	2.17	0.80
2:AA:270(N):G:H5''	10:AK:53:LYS:HZ1	1.47	0.80
2:AA:810:U:OP1	2:AA:1253:A:C5	2.34	0.80
2:AA:873:G:H4'	15:AP:32:LYS:CG	2.11	0.80
2:AA:878:A:H2	2:AA:879:G:H5''	1.46	0.80
2:AA:953:A:H2'	2:AA:954:G:H5'	1.64	0.80
2:AA:1665:A:O2'	13:AN:67:ARG:CZ	2.30	0.80
2:AA:1669:A:C8	13:AN:4:GLN:OE1	2.33	0.80
2:AA:1691:C:H2'	2:AA:1692:U:H5'	1.64	0.80
2:AA:2047:U:H2'	2:AA:2048:G:C8	2.17	0.80
2:AA:2063:C:O2	2:AA:2451:A:C2	2.35	0.80
2:AA:2213:U:H5'	2:AA:2215:G:N7	1.96	0.80
4:AD:181:ARG:CZ	4:AD:181:ARG:CB	2.60	0.80
5:AE:109:ASP:CG	5:AE:112:LEU:HG	2.07	0.80
6:AF:68:ALA:O	6:AF:69:HIS:ND1	2.15	0.80
6:AF:194:PHE:HB2	6:AF:211:ASP:O	1.82	0.80
7:AG:56:ARG:NH2	7:AG:63:ILE:HG12	1.97	0.80
10:AK:62:LEU:O	10:AK:65:ALA:HB3	1.81	0.80
12:AM:105:LEU:HD23	12:AM:105:LEU:N	1.96	0.80
13:AN:58:VAL:HG11	13:AN:86:ILE:CD1	2.11	0.80
14:AO:67:ARG:NH1	14:AO:109:LEU:HD12	1.96	0.80
15:AP:42:TYR:HA	21:AV:119:ASN:HD21	1.46	0.80
29:A5:44:HIS:HA	29:A5:52:TYR:OH	1.81	0.80
32:A8:37:SER:O	32:A8:41:ILE:HD11	1.82	0.80
33:A9:19:ARG:O	33:A9:22:ARG:CB	2.27	0.80
34:BA:227:G:H2'	34:BA:228:A:C8	2.17	0.80
34:BA:283:C:H2'	34:BA:283:C:O2	1.82	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:678:U:H2'	34:BA:679:C:C6	2.16	0.80
34:BA:932:C:H4'	42:BJ:4:ARG:NH2	1.95	0.80
34:BA:1181:G:O3'	34:BA:1184:G:H5'	1.81	0.80
34:BA:1184:G:H2'	34:BA:1185:G:H8	1.47	0.80
35:BC:16:U:OP2	35:BC:60:C:O2'	2.00	0.80
43:BK:45:ILE:HG13	43:BK:47:GLY:H	1.45	0.80
46:BN:62:GLN:NE2	46:BN:63:LEU:N	2.30	0.80
50:BR:56:LEU:O	50:BR:59:MET:HB3	1.81	0.80
50:BR:62:GLN:CD	50:BR:65:ARG:HH21	1.89	0.80
52:BT:10:VAL:HG23	52:BT:55:ASP:O	1.82	0.80
2:AA:144:C:O2'	2:AA:145:G:H5'	1.81	0.80
2:AA:846:C:O2'	2:AA:847:U:OP2	2.00	0.80
2:AA:889:C:H2'	2:AA:890:A:O4'	1.82	0.80
2:AA:951:C:O2'	2:AA:952:G:H5'	1.80	0.80
2:AA:1468:C:C4	2:AA:1524:G:C2	2.69	0.80
2:AA:1519:G:N3	2:AA:1520:U:H1'	1.98	0.80
2:AA:1588:C:O2'	2:AA:1589:C:H5'	1.82	0.80
2:AA:1791:A:O2'	4:AD:204:PHE:O	1.99	0.80
2:AA:1949:G:O2'	2:AA:1950:G:H5'	1.82	0.80
5:AE:70:VAL:CG1	5:AE:71:THR:N	2.45	0.80
5:AE:107:GLU:HB3	5:AE:110:ARG:CZ	2.12	0.80
7:AG:56:ARG:HB3	7:AG:56:ARG:CZ	2.08	0.80
8:AH:51:VAL:HG21	8:AH:68:ARG:HE	1.47	0.80
10:AK:132:LYS:HA	10:AK:138:THR:HG21	1.62	0.80
24:A0:96:ARG:HG3	24:A0:98:LEU:HD11	1.62	0.80
25:A1:74:MET:CE	25:A1:78:THR:HG21	2.11	0.80
26:A2:69:ILE:HG13	26:A2:91:THR:HG23	1.64	0.80
27:A3:25:LYS:C	27:A3:26:PHE:CD1	2.59	0.80
28:A4:7:PRO:O	28:A4:60:ASN:CG	2.25	0.80
34:BA:312:C:H2'	34:BA:312:C:O2	1.81	0.80
34:BA:841:U:H3'	34:BA:848:C:H5'	1.64	0.80
34:BA:889:A:C2	34:BA:891:U:N3	2.50	0.80
34:BA:962:C:C4	34:BA:963:G:N7	2.49	0.80
34:BA:1032:G:H2'	34:BA:1033:G:C8	2.16	0.80
34:BA:1481:U:H2'	34:BA:1482:G:H8	1.42	0.80
35:BB:18:G:N1	35:BB:57:G:C6	2.32	0.80
35:BC:51:G:N2	35:BC:63:C:N3	2.26	0.80
37:BE:69:LEU:HB2	37:BE:159:PRO:CB	2.11	0.80
39:BG:179:GLU:C	39:BG:181:MET:N	2.38	0.80
40:BH:76:ILE:HG23	40:BH:77:PRO:CD	2.12	0.80
43:BK:100:ILE:HD13	43:BK:125:ARG:HE	1.45	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BL:111:ARG:O	44:BL:119:ALA:HB2	1.82	0.80
46:BN:77:MET:C	46:BN:78:GLN:HG3	2.05	0.80
48:BP:23:TYR:O	48:BP:66:LEU:CB	2.30	0.80
49:BQ:34:TYR:H	49:BQ:34:TYR:HD1	1.26	0.80
54:BV:13:ASP:HA	54:BV:16:LEU:CB	2.12	0.80
2:AA:669:G:N3	2:AA:669:G:C2'	2.41	0.79
2:AA:946:G:N1	2:AA:971:C:C4	2.50	0.79
2:AA:1139:G:O2'	2:AA:1140:C:H5'	1.82	0.79
2:AA:1672:C:O2	2:AA:2582:G:O4'	2.00	0.79
2:AA:1790:C:H5''	2:AA:1828:G:N2	1.97	0.79
2:AA:2247:A:H2'	2:AA:2248:C:H6	1.46	0.79
2:AA:2286:A:N6	30:A6:32:GLN:O	2.16	0.79
2:AA:2415:G:N2	2:AA:2416:C:H1'	1.97	0.79
2:AA:2574:G:O2'	5:AE:240:PRO:HA	1.81	0.79
3:AC:14:VAL:CG2	3:AC:28:LEU:HD21	2.11	0.79
5:AE:85:ALA:HB1	5:AE:87:GLU:CG	2.11	0.79
6:AF:219:ASN:H	6:AF:222:ASP:CG	1.90	0.79
8:AH:41:THR:HG22	8:AH:52:THR:HG21	1.63	0.79
8:AH:102:LEU:HD12	8:AH:104:LEU:CD1	2.12	0.79
12:AM:54:VAL:HG13	12:AM:135:ILE:HD12	1.62	0.79
13:AN:68:GLY:HA2	13:AN:78:ARG:HG2	1.65	0.79
14:AO:94:ARG:HH11	14:AO:120:LEU:CB	1.94	0.79
14:AO:141:GLU:HB2	14:AO:145:LEU:CD2	2.12	0.79
18:AS:40:ASN:HD22	18:AS:41:LYS:H	1.29	0.79
21:AV:34:LEU:HD13	21:AV:39:PHE:CE2	2.16	0.79
21:AV:118:HIS:CG	21:AV:168:VAL:HA	2.16	0.79
24:A0:86:ARG:HH22	24:A0:118:GLU:CG	1.94	0.79
27:A3:37:LEU:HB3	27:A3:69:PHE:CG	2.18	0.79
30:A6:21:TYR:CE1	30:A6:43:VAL:HG23	2.17	0.79
34:BA:109:A:H4'	34:BA:110:C:OP2	1.80	0.79
34:BA:766:A:N7	34:BA:814:A:C6	2.51	0.79
34:BA:1073:U:N3	34:BA:1102:A:N6	2.28	0.79
35:BB:48:C:N4	35:BB:59:U:C2	2.49	0.79
35:BC:72:C:C2'	35:BC:73:A:C8	2.59	0.79
37:BE:28:PHE:CE1	37:BE:31:TYR:HB3	2.17	0.79
37:BE:53:ARG:NE	37:BE:199:TYR:CE2	2.50	0.79
37:BE:185:ILE:HG23	37:BE:199:TYR:HB2	1.63	0.79
37:BE:188:ALA:HB1	37:BE:192:SER:OG	1.82	0.79
39:BG:18:LYS:C	39:BG:19:LEU:HG	2.06	0.79
39:BG:205:GLU:OE1	40:BH:100:VAL:N	2.13	0.79
42:BJ:74:GLU:HG2	42:BJ:75:VAL:H	1.45	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:47:PHE:HZ	45:BM:65:LEU:HB2	1.46	0.79
47:BO:53:ARG:NH2	47:BO:92:ASP:OD2	2.15	0.79
49:BQ:29:ARG:HH11	49:BQ:42:ILE:HD11	1.45	0.79
2:AA:185:U:H5'	2:AA:217:G:H21	1.47	0.79
2:AA:417:C:H2'	2:AA:418:G:H8	1.45	0.79
2:AA:527:C:H5''	2:AA:2779:U:O2	1.82	0.79
2:AA:801:G:O2'	2:AA:802:A:OP1	2.00	0.79
2:AA:975:G:N2	2:AA:976:C:O4'	2.15	0.79
2:AA:1006:C:C1'	12:AM:86:MET:SD	2.62	0.79
2:AA:1066:U:O2'	2:AA:1067:A:H3'	1.83	0.79
2:AA:1352:U:O2	2:AA:1352:U:H2'	1.80	0.79
2:AA:1707:G:H2'	2:AA:1708:C:C6	2.18	0.79
2:AA:1787:A:C2	2:AA:1788:C:C4	2.70	0.79
2:AA:1840:G:H1	2:AA:1902:C:N4	1.80	0.79
2:AA:1937:A:H3'	2:AA:1938:A:C5'	2.11	0.79
2:AA:2013:A:C6	2:AA:2014:A:C2	2.69	0.79
2:AA:2033:A:N1	2:AA:2036:C:C5	2.51	0.79
2:AA:2041:U:H2'	2:AA:2042:A:C5'	2.12	0.79
2:AA:2132:U:C2	2:AA:2134:A:OP2	2.35	0.79
2:AA:2251:G:H5''	15:AP:102:ARG:CZ	2.11	0.79
2:AA:2623:G:H5'	2:AA:2826:A:O2'	1.81	0.79
2:AA:2839:G:H21	24:A0:91:GLN:HB3	1.46	0.79
3:AC:5:LYS:HE3	3:AC:8:ARG:HE	1.47	0.79
3:AC:89:ALA:HA	3:AC:154:ARG:NH1	1.97	0.79
5:AE:107:GLU:O	5:AE:110:ARG:HG3	1.81	0.79
5:AE:212:GLY:O	5:AE:216:ARG:HG3	1.83	0.79
6:AF:93:LYS:C	6:AF:95:GLU:N	2.30	0.79
7:AG:145:ASP:HB3	16:AQ:15:GLU:O	1.82	0.79
8:AH:18:VAL:HG11	8:AH:42:ILE:HD12	1.64	0.79
13:AN:73:ASP:O	13:AN:75:SER:OG	1.99	0.79
18:AS:27:LYS:H	18:AS:71:VAL:HG23	1.48	0.79
19:AT:6:LYS:HD2	19:AT:27:ALA:CB	2.07	0.79
23:AX:9:VAL:H	23:AX:54:VAL:CG1	1.86	0.79
30:A6:16:ALA:HB2	30:A6:50:PHE:CZ	2.17	0.79
34:BA:262:A:C2	34:BA:263:A:C6	2.70	0.79
34:BA:519:C:H2'	34:BA:520:A:C5'	2.13	0.79
34:BA:660:G:H2'	34:BA:661:G:H8	1.47	0.79
34:BA:673:G:C5'	41:BI:87:ARG:HE	1.96	0.79
34:BA:1157:A:H4'	34:BA:1158:C:O5'	1.81	0.79
34:BA:1165:C:N3	34:BA:1171:G:N2	2.30	0.79
34:BA:1308:U:OP2	48:BP:99:ARG:HD2	1.82	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:33:TYR:HB2	37:BE:43:ASP:HB2	1.64	0.79
37:BE:82:ARG:HD2	37:BE:92:TYR:OH	1.81	0.79
37:BE:166:ASP:OD2	37:BE:167:PRO:HD2	1.81	0.79
38:BF:83:ARG:O	38:BF:87:LEU:HG	1.81	0.79
39:BG:149:ALA:O	39:BG:152:SER:HB2	1.81	0.79
40:BH:87:SER:OG	40:BH:130:ASN:HB3	1.82	0.79
41:BI:76:ALA:O	41:BI:80:ARG:HG3	1.82	0.79
41:BI:89:MET:CB	53:BU:76:LEU:HD11	2.12	0.79
43:BK:40:ALA:HA	43:BK:43:GLY:O	1.82	0.79
43:BK:92:ARG:HG2	43:BK:92:ARG:HH11	1.46	0.79
44:BL:16:ARG:O	44:BL:63:ILE:HG23	1.82	0.79
45:BM:30:SER:HB2	45:BM:81:THR:N	1.97	0.79
45:BM:32:ALA:O	45:BM:33:GLN:HG3	1.81	0.79
51:BS:4:ILE:CG2	51:BS:21:VAL:HG13	2.12	0.79
52:BT:63:ARG:O	52:BT:65:ILE:HG23	1.82	0.79
1:AB:41:U:OP1	1:AB:42:C:H5	1.65	0.79
1:AB:84:C:H42	1:AB:92:G:H1	0.80	0.79
2:AA:120:U:O2	2:AA:120:U:H2'	1.80	0.79
2:AA:176:G:N3	2:AA:176:G:H2'	1.95	0.79
2:AA:343:C:N3	2:AA:344:G:C5	2.50	0.79
2:AA:572:A:N6	2:AA:573:G:N1	2.31	0.79
2:AA:738:G:N7	2:AA:739:G:N2	2.30	0.79
2:AA:1057:A:N6	2:AA:1081:U:H3	1.80	0.79
2:AA:1222:C:N4	2:AA:1227:A:H61	1.76	0.79
2:AA:444(A):A:H2'	2:AA:1460:A:O2'	1.82	0.79
2:AA:1612:C:O3'	31:A7:5:TYR:HB2	1.82	0.79
2:AA:2001:A:H2'	2:AA:2002:G:C8	2.17	0.79
2:AA:2278:A:HO2'	15:AP:19:TYR:HD2	1.28	0.79
2:AA:2581:G:N1	2:AA:2610:C:H6	1.78	0.79
2:AA:2596:U:H3'	2:AA:2597:G:H8	1.45	0.79
2:AA:2691:C:O2'	2:AA:2692:C:H5'	1.80	0.79
2:AA:2785:C:H1'	5:AE:100:TRP:CD1	2.17	0.79
2:AA:2791:C:N3	2:AA:2805:G:O6	2.15	0.79
2:AA:2808:U:O3'	2:AA:2810:A:OP1	1.99	0.79
6:AF:102:LEU:HB2	6:AF:107:ARG:HE	1.47	0.79
9:AJ:71:ILE:CG1	11:AL:62:GLU:H	1.95	0.79
13:AN:7:ARG:NE	13:AN:44:LYS:HD3	1.97	0.79
13:AN:35:ILE:HD13	13:AN:69:VAL:HG21	1.64	0.79
14:AO:94:ARG:NH1	14:AO:120:LEU:N	2.30	0.79
15:AP:50:VAL:HG13	15:AP:147:VAL:CA	2.08	0.79
16:AQ:19:ASP:C	16:AQ:21:HIS:N	2.31	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:102:LEU:CG	16:AQ:129:ILE:HD12	2.11	0.79
18:AS:8:ARG:HB3	18:AS:8:ARG:HH11	1.47	0.79
21:AV:124:ALA:H	21:AV:159:THR:HG21	1.47	0.79
29:A5:50:GLY:CA	29:A5:57:VAL:HB	2.11	0.79
34:BA:41:G:H2'	34:BA:42:G:H8	1.45	0.79
34:BA:117:G:H2'	34:BA:118:U:H5'	1.63	0.79
34:BA:886:G:H2'	34:BA:887:G:H8	1.46	0.79
34:BA:1412:C:H2'	34:BA:1413:A:C8	2.17	0.79
35:BB:50:U:N3	35:BB:65:G:C2	2.50	0.79
37:BE:102:LEU:CB	37:BE:176:GLU:HB3	2.11	0.79
38:BF:84:ILE:O	38:BF:101:LEU:HD13	1.81	0.79
39:BG:94:LEU:HD11	39:BG:200:GLU:OE1	1.83	0.79
39:BG:122:ARG:O	39:BG:134:ASP:HB2	1.82	0.79
40:BH:94:ALA:CB	40:BH:98:THR:HG21	2.11	0.79
42:BJ:72:ARG:CZ	42:BJ:142:GLU:OE1	2.29	0.79
43:BK:63:LEU:N	43:BK:63:LEU:CD1	2.36	0.79
44:BL:85:LEU:HD11	44:BL:89:ASN:HD22	1.47	0.79
50:BR:34:LEU:HD23	50:BR:35:ARG:N	1.97	0.79
51:BS:45:THR:HB	51:BS:46:PRO:HD2	1.62	0.79
2:AA:26:G:H1	2:AA:27:G:H21	1.28	0.79
2:AA:327:G:C2	2:AA:328:U:C6	2.71	0.79
2:AA:451:C:OP1	6:AF:49:ASP:N	2.15	0.79
2:AA:559:G:H8	2:AA:559:G:H5'	1.47	0.79
2:AA:573:G:H22	2:AA:2029:G:N2	1.80	0.79
2:AA:581:C:O3'	25:A1:32:TYR:HD1	1.64	0.79
2:AA:607:U:C2	2:AA:621:A:N6	2.50	0.79
2:AA:700:G:H1	2:AA:732:C:H42	1.30	0.79
2:AA:775:G:H5''	2:AA:777:A:C1'	2.12	0.79
2:AA:869:G:N2	2:AA:908:C:N3	2.29	0.79
2:AA:1084:A:OP1	9:AI:39:VAL:C	2.25	0.79
2:AA:1084:A:C5'	9:AI:38:ALA:H	1.96	0.79
2:AA:1292:U:H2'	2:AA:1293:C:H6	1.48	0.79
2:AA:1310:G:N7	2:AA:1311:G:N3	2.30	0.79
2:AA:1340:U:H5	19:AT:55:GLN:HE22	1.28	0.79
2:AA:1421:G:N1	2:AA:1577:C:O2	2.16	0.79
2:AA:1510:A:H3'	2:AA:1511:A:N7	1.97	0.79
2:AA:1781:C:H3'	2:AA:1781:C:C6	2.16	0.79
2:AA:2210:G:H4'	2:AA:2211:G:H5'	1.65	0.79
2:AA:2450:A:O2'	2:AA:2451:A:H5'	1.82	0.79
2:AA:2479:G:OP1	2:AA:2537:U:O4'	2.01	0.79
2:AA:2553:G:N2	2:AA:2583:G:C2'	2.45	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2794:C:N4	2:AA:2802:G:H1	1.81	0.79
3:AC:46:LYS:HB3	3:AC:210:ARG:HD3	1.64	0.79
4:AD:93:ILE:HB	4:AD:103:ILE:CG2	2.13	0.79
4:AD:232:VAL:HG23	4:AD:233:ASP:N	1.94	0.79
6:AF:83:ALA:N	6:AF:87:ARG:NE	2.25	0.79
6:AF:84:VAL:HG23	6:AF:85:LYS:HZ2	1.47	0.79
6:AF:223:LEU:CD2	6:AF:233:THR:HG21	2.08	0.79
8:AH:92:GLY:O	8:AH:94:ARG:HG3	1.82	0.79
9:AI:62:VAL:HG13	9:AI:100:ALA:C	2.08	0.79
9:AJ:35:ALA:HB3	9:AJ:36:PRO:CD	2.11	0.79
11:AL:18:ALA:HB3	11:AL:43:ASN:ND2	1.98	0.79
11:AL:22:PRO:HG2	11:AL:23:PRO:HD3	1.65	0.79
18:AS:90:ARG:HB2	18:AS:90:ARG:HH11	1.47	0.79
19:AT:11:THR:CG2	19:AT:14:ALA:HB2	2.09	0.79
19:AT:44:GLN:CD	19:AT:44:GLN:C	2.51	0.79
24:A0:101:ALA:HB2	29:A5:44:HIS:HB3	1.65	0.79
25:A1:55:ARG:HG2	25:A1:58:ARG:NH2	1.96	0.79
27:A3:36:ILE:H	27:A3:68:VAL:HG22	1.47	0.79
31:A7:21:ARG:NH1	31:A7:42:LEU:HB3	1.96	0.79
31:A7:21:ARG:CZ	31:A7:43:THR:HG23	2.13	0.79
34:BA:22:G:C2'	34:BA:23:C:C6	2.64	0.79
34:BA:28:G:O2'	34:BA:296:U:OP1	1.99	0.79
34:BA:113:G:C5	34:BA:114:U:C5	2.70	0.79
34:BA:283:C:N3	34:BA:284:G:C8	2.51	0.79
34:BA:791:G:H2'	34:BA:792:A:C8	2.18	0.79
34:BA:1388:C:H2'	34:BA:1389:C:C6	2.17	0.79
38:BF:18:TRP:O	38:BF:21:ARG:HG2	1.82	0.79
38:BF:24:ALA:HB1	38:BF:28:GLN:OE1	1.83	0.79
41:BI:98:LEU:CD2	53:BU:28:GLU:HA	2.12	0.79
42:BJ:137:LYS:O	42:BJ:141:VAL:HG23	1.82	0.79
43:BK:63:LEU:HG	43:BK:65:TYR:OH	1.82	0.79
51:BS:46:PRO:HG2	51:BS:47:ASP:N	1.97	0.79
52:BT:10:VAL:O	52:BT:53:LEU:HD12	1.82	0.79
53:BU:58:LEU:HB3	53:BU:62:GLU:CB	2.11	0.79
54:BV:11:VAL:O	54:BV:11:VAL:HG12	1.83	0.79
54:BV:70:LYS:HB2	54:BV:73:GLU:OE2	1.81	0.79
1:AB:103:U:H6	1:AB:103:U:H3'	1.45	0.79
2:AA:324:A:H2	2:AA:325:G:C1'	1.95	0.79
2:AA:387:U:H4'	2:AA:388:G:O4'	1.82	0.79
2:AA:760:G:H2'	2:AA:761:A:O4'	1.83	0.79
2:AA:1020:A:C1'	12:AM:49:ARG:CZ	2.60	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1059:G:OP1	9:AI:2:THR:HG22	1.83	0.79
2:AA:1270:C:H5'	2:AA:1271:G:OP1	1.81	0.79
2:AA:1925:C:N3	2:AA:1929:G:O6	2.15	0.79
2:AA:1936:A:N3	2:AA:1940:U:O2	2.16	0.79
2:AA:2112:G:OP2	2:AA:2117:A:C5	2.35	0.79
2:AA:2313:C:H5'	7:AG:51:ARG:CD	2.10	0.79
2:AA:2336:A:O2'	2:AA:2385:C:H5'	1.82	0.79
2:AA:2761:G:O2'	2:AA:2762:G:H5'	1.83	0.79
3:AC:20:TYR:CE1	3:AC:222:VAL:HG22	2.18	0.79
4:AD:130:PRO:HA	4:AD:187:CYS:O	1.82	0.79
4:AD:155:ARG:O	4:AD:157:ALA:N	2.14	0.79
5:AE:225:LYS:HB3	5:AE:226:HIS:ND1	1.97	0.79
5:AE:225:LYS:O	5:AE:229:GLN:NE2	2.14	0.79
6:AF:144:PHE:HE2	6:AF:156:LEU:HD22	1.46	0.79
6:AF:200:PRO:HB3	6:AF:212:VAL:HG11	1.64	0.79
7:AG:105:SER:OG	7:AG:131:THR:HA	1.82	0.79
9:AI:102:ILE:HD13	9:AI:118:LEU:HD22	1.65	0.79
13:AN:58:VAL:HG11	13:AN:86:ILE:HD13	1.63	0.79
14:AO:94:ARG:NH2	14:AO:118:LEU:HB2	1.97	0.79
15:AP:65:ARG:NE	15:AP:85:ILE:HB	1.97	0.79
18:AS:38:TYR:HB3	29:A5:41:LEU:CD2	2.12	0.79
20:AU:66:ASP:H	20:AU:72:ILE:CG1	1.93	0.79
22:AW:52:ALA:HA	22:AW:55:ARG:NH1	1.97	0.79
27:A3:14:ARG:HH11	27:A3:14:ARG:N	1.80	0.79
30:A6:11:LYS:HZ3	32:A8:35:GLY:HA3	1.47	0.79
34:BA:186:C:O2'	55:BW:85:MET:SD	2.40	0.79
34:BA:540:G:H2'	34:BA:541:G:O4'	1.82	0.79
34:BA:590:C:OP1	43:BK:30:ARG:HG3	1.83	0.79
36:B1:11:U:H3	36:B1:45:A:N6	1.79	0.79
37:BE:140:HIS:HA	37:BE:143:GLU:HB2	1.63	0.79
38:BF:42:LEU:O	38:BF:45:LYS:HB2	1.81	0.79
43:BK:85:ARG:HH11	43:BK:85:ARG:HG2	1.48	0.79
46:BN:44:SER:H	46:BN:47:VAL:HB	1.48	0.79
51:BS:19:ILE:HB	51:BS:37:GLY:O	1.82	0.79
2:AA:304:G:H1	2:AA:313:C:N4	1.79	0.79
2:AA:452:G:P	6:AF:52:ALA:HB1	2.21	0.79
2:AA:791:C:C4	2:AA:794:G:O4'	2.35	0.79
2:AA:824:A:H2'	2:AA:825:C:H5	1.47	0.79
2:AA:1025:G:C8	2:AA:1134:G:C1'	2.65	0.79
2:AA:1422:G:N2	2:AA:1576:U:O2	2.16	0.79
2:AA:1663:C:H2'	2:AA:1664:A:C8	2.18	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2058:A:H2'	2:AA:2059:A:C8	2.17	0.79
3:AC:45:ALA:O	3:AC:170:ALA:HA	1.83	0.79
4:AD:140:VAL:O	4:AD:160:SER:HB2	1.82	0.79
5:AE:39:GLN:CA	5:AE:174:LEU:HG	2.13	0.79
5:AE:174:LEU:HD12	5:AE:174:LEU:N	1.94	0.79
6:AF:42:ARG:O	6:AF:43:LYS:O	2.01	0.79
6:AF:59:GLU:OE2	6:AF:59:GLU:HA	1.82	0.79
8:AH:10:ILE:CG2	8:AH:10:ILE:O	2.31	0.79
8:AH:168:VAL:O	8:AH:169:ARG:HG2	1.82	0.79
9:AI:71:ILE:HG22	9:AI:75:LYS:HE3	1.63	0.79
9:AJ:85:LEU:HD21	11:AL:69:ILE:CD1	2.11	0.79
9:AJ:102:ILE:HG21	9:AJ:118:LEU:CD1	2.12	0.79
18:AS:85:VAL:HG12	18:AS:95:ILE:HD11	1.63	0.79
20:AU:20:HIS:O	20:AU:23:VAL:N	2.15	0.79
24:A0:55:ALA:HA	24:A0:80:PHE:CD1	2.17	0.79
24:A0:67:LEU:HD13	24:A0:67:LEU:O	1.83	0.79
26:A2:28:GLU:OE2	26:A2:93:ILE:HB	1.82	0.79
30:A6:15:SER:O	30:A6:50:PHE:HA	1.82	0.79
32:A8:16:ILE:N	32:A8:16:ILE:CD1	2.46	0.79
32:A8:60:LEU:CD2	32:A8:64:ARG:HB2	2.13	0.79
34:BA:314:C:H2'	34:BA:315:A:C8	2.18	0.79
34:BA:948:C:OP1	48:BP:109:THR:CB	2.30	0.79
34:BA:1361:G:H3'	34:BA:1361:G:C8	2.17	0.79
34:BA:1483:A:C2'	34:BA:1484:C:H5'	2.11	0.79
35:BC:34:G:N2	36:B1:62:G:N2	2.31	0.79
39:BG:64:LEU:HA	39:BG:67:ILE:HD11	1.62	0.79
40:BH:91:LEU:HD23	40:BH:91:LEU:C	2.08	0.79
41:BI:97:PHE:HE2	53:BU:31:LEU:HD12	1.44	0.79
42:BJ:71:PRO:HG2	42:BJ:96:GLN:HG3	1.63	0.79
1:AB:103:U:H3'	1:AB:103:U:C6	2.17	0.79
2:AA:99:U:H3	20:AU:107:LYS:HD3	1.47	0.79
2:AA:321:G:H5'	6:AF:150:THR:HG21	1.63	0.79
2:AA:452:G:OP1	6:AF:52:ALA:HB1	1.83	0.79
2:AA:643:A:O2'	2:AA:644:A:O4'	1.98	0.79
2:AA:718:A:H5''	2:AA:719:C:H6	1.43	0.79
2:AA:729:G:H8	2:AA:764:A:OP1	1.66	0.79
2:AA:806:C:C2	2:AA:807:U:C5	2.71	0.79
2:AA:1454:U:H5'	2:AA:1456:G:OP2	1.82	0.79
2:AA:2097:C:H2'	2:AA:2098:U:H5'	1.65	0.79
2:AA:2135:A:H62	2:AA:2150:U:C3'	1.95	0.79
2:AA:2352:A:O2'	2:AA:2353:G:H5'	1.83	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2684:U:H3	2:AA:2725:A:N6	1.79	0.79
2:AA:2749:A:C5	2:AA:2750:A:N7	2.51	0.79
4:AD:172:ILE:HG13	4:AD:182:MET:HE2	1.64	0.79
9:AI:1:MET:HE2	9:AJ:86:LYS:HD3	1.63	0.79
12:AM:61:VAL:HG12	12:AM:62:ASP:OD1	1.82	0.79
21:AV:142:ASN:O	21:AV:171:VAL:HG21	1.83	0.79
28:A4:42:PHE:O	28:A4:57:ASP:HA	1.81	0.79
33:A9:25:VAL:HG21	33:A9:34:GLN:OE1	1.82	0.79
34:BA:394:G:C4	34:BA:395:C:C5	2.71	0.79
34:BA:440:A:N6	34:BA:495:U:H5	1.77	0.79
34:BA:764:C:H3'	34:BA:765:G:H8	1.44	0.79
34:BA:826:C:H1'	43:BK:15:ASN:HD22	1.43	0.79
34:BA:849:C:O2'	34:BA:850:U:H5'	1.82	0.79
34:BA:1067:A:N1	34:BA:1191:A:N7	2.30	0.79
34:BA:1068:G:H1'	34:BA:1191:A:N6	1.97	0.79
34:BA:1229:A:H2'	34:BA:1230:C:H6	1.47	0.79
34:BA:1231:G:H2'	34:BA:1232:U:C6	2.18	0.79
35:BB:37:G:P	35:BB:37:G:N7	2.55	0.79
35:BB:59:U:C6	35:BB:59:U:O5'	2.36	0.79
38:BF:187:ALA:HB3	38:BF:198:VAL:HG23	1.64	0.79
41:BI:53:ALA:C	41:BI:55:ASP:H	1.88	0.79
41:BI:100:ASN:HD22	53:BU:23:LYS:HG2	1.48	0.79
53:BU:63:GLN:HA	53:BU:66:LEU:HD21	1.65	0.79
54:BV:80:TYR:CD1	54:BV:81:ARG:N	2.49	0.79
2:AA:270(B):A:O2'	2:AA:270(C):C:C6	2.25	0.79
2:AA:295:G:C6	2:AA:344:G:C5	2.71	0.79
2:AA:506:G:H5'	2:AA:509:C:O2'	1.82	0.79
2:AA:609:A:H61	2:AA:619:G:N2	1.79	0.79
2:AA:830:G:C4	2:AA:2448:A:N7	2.51	0.79
2:AA:1227:A:C8	2:AA:1228:G:H5''	2.18	0.79
2:AA:1332:G:N7	2:AA:1609:A:N6	2.30	0.79
2:AA:1482:U:C2'	2:AA:1483:G:H4'	2.12	0.79
2:AA:1882:C:H2'	2:AA:1883:G:H5'	1.65	0.79
2:AA:2027:G:C4	2:AA:2037:G:N2	2.51	0.79
2:AA:2207:C:C2'	2:AA:2208:U:C5'	2.54	0.79
2:AA:2354:G:O4'	27:A3:31:VAL:HG22	1.83	0.79
2:AA:2517:C:O2'	2:AA:2518:A:O5'	2.01	0.79
3:AC:56:GLN:HA	3:AC:201:PRO:HB2	1.65	0.79
4:AD:117:SER:CB	4:AD:128:ALA:H	1.95	0.79
5:AE:39:GLN:NE2	5:AE:174:LEU:HD11	1.96	0.79
5:AE:48:MET:CB	5:AE:71:THR:HG23	2.11	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:108:GLN:O	6:AF:112:ARG:HG3	1.82	0.79
8:AH:9:GLU:O	8:AH:49:ILE:HD11	1.81	0.79
20:AU:81:LYS:HZ2	20:AU:84:GLY:H	1.31	0.79
21:AV:5:ALA:O	21:AV:33:ALA:CB	2.31	0.79
21:AV:156:GLU:CG	21:AV:157:GLY:H	1.96	0.79
25:A1:86:ALA:O	25:A1:87:ASN:HB2	1.80	0.79
27:A3:19:LYS:CD	27:A3:21:LEU:HD21	2.12	0.79
34:BA:47:C:H4'	34:BA:48:C:C5'	2.12	0.79
34:BA:520:A:N6	34:BA:529:G:H21	1.80	0.79
34:BA:657:G:C2'	34:BA:658:G:H5'	2.12	0.79
34:BA:911:U:H2'	34:BA:912:C:C6	2.17	0.79
34:BA:997:U:H3	34:BA:1044:A:H2	1.31	0.79
34:BA:1137:C:H4'	34:BA:1138:G:N2	1.98	0.79
34:BA:1391:U:H2'	34:BA:1392:G:H8	1.46	0.79
35:BB:51:G:N2	35:BB:63:C:N3	2.29	0.79
36:B1:67:U:H2'	36:B1:68:U:H5'	1.65	0.79
37:BE:75:LYS:HG2	37:BE:78:GLN:NE2	1.98	0.79
47:BO:93:LEU:O	47:BO:96:VAL:HG23	1.83	0.79
48:BP:38:GLY:O	48:BP:39:ILE:HG23	1.82	0.79
48:BP:77:ASN:O	48:BP:81:LEU:HD13	1.82	0.79
52:BT:7:THR:HG23	52:BT:57:VAL:O	1.83	0.79
1:AB:13:A:C6	1:AB:70:C:H5'	2.17	0.79
2:AA:309:G:O2'	2:AA:329:G:H2'	1.83	0.79
2:AA:503:A:H1'	2:AA:505:A:H8	1.45	0.79
2:AA:747:U:C5	2:AA:2613:U:C5	2.70	0.79
2:AA:932:G:N2	2:AA:933:A:N6	2.31	0.79
2:AA:1023:U:P	2:AA:1025:G:H1	2.05	0.79
2:AA:1128:A:C2	2:AA:1129:A:C5	2.70	0.79
2:AA:1140:C:O2'	2:AA:1141:U:OP2	2.00	0.79
2:AA:1479:G:H2'	2:AA:1480:G:C8	2.17	0.79
2:AA:1528:A:H61	2:AA:1543:A:H62	0.83	0.79
2:AA:1699:G:N7	2:AA:1763:G:C2	2.51	0.79
2:AA:2553:G:N2	2:AA:2583:G:C1'	2.33	0.79
2:AA:2628:C:H1'	2:AA:2781:A:N3	1.97	0.79
2:AA:2852:G:O6	2:AA:2865:U:O4	2.01	0.79
2:AA:2865:U:C5	2:AA:2866:U:C5	2.71	0.79
4:AD:146:LYS:O	4:AD:149:ARG:HG2	1.83	0.79
4:AD:213:LYS:O	4:AD:215:LYS:HG2	1.83	0.79
5:AE:222:ARG:O	5:AE:227:ALA:HA	1.82	0.79
20:AU:65:VAL:HA	20:AU:72:ILE:CD1	2.13	0.79
25:A1:74:MET:HG3	25:A1:117:ARG:CZ	2.12	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:88:ILE:HB	26:A2:52:GLY:HA3	1.65	0.79
26:A2:61:VAL:HG12	26:A2:95:ILE:CG2	2.09	0.79
27:A3:35:ASN:HA	27:A3:68:VAL:CG2	2.13	0.79
28:A4:33:VAL:HG12	28:A4:34:ASP:N	1.96	0.79
34:BA:167:G:O2'	34:BA:168:G:H5'	1.82	0.79
35:BB:57:G:C2'	35:BB:58:A:H5'	2.08	0.79
37:BE:162:ILE:HD13	37:BE:183:PRO:O	1.82	0.79
37:BE:210:SER:O	37:BE:214:ILE:HG12	1.82	0.79
39:BG:31:CYS:CB	39:BG:33:MET:SD	2.70	0.79
48:BP:52:GLU:HA	48:BP:55:ARG:HD3	1.64	0.79
49:BQ:22:THR:O	49:BQ:23:ARG:HB2	1.82	0.79
51:BS:55:ARG:HE	51:BS:55:ARG:HA	1.48	0.79
1:AB:10:C:O5'	1:AB:10:C:H6	1.65	0.79
1:AB:50:G:OP1	16:AQ:75:THR:HG23	1.83	0.79
2:AA:58:G:H1	2:AA:69:C:N4	1.81	0.79
2:AA:126:A:OP1	31:A7:44:VAL:HG11	1.82	0.79
2:AA:144:C:H5''	19:AT:36:GLU:CD	2.07	0.79
2:AA:295:G:N1	2:AA:344:G:C5	2.51	0.79
2:AA:342:G:H22	2:AA:344:G:H21	1.28	0.79
2:AA:546:C:N4	2:AA:1221:C:OP1	2.12	0.79
2:AA:917:A:C3'	2:AA:918:A:H5''	2.12	0.79
2:AA:1234:U:O2'	2:AA:1235:G:H5'	1.83	0.79
2:AA:1529:A:OP1	2:AA:1539:G:O6	2.00	0.79
2:AA:1566:A:O4'	2:AA:1566:A:OP1	2.00	0.79
2:AA:1726:G:H2'	2:AA:1727:U:C5'	2.12	0.79
2:AA:1771:C:H2'	2:AA:1772:G:C8	2.18	0.79
2:AA:2029:G:H8	2:AA:2029:G:O5'	1.64	0.79
2:AA:2139:C:O2	2:AA:2152:G:N1	2.15	0.79
2:AA:2704:C:H2'	2:AA:2705:A:O4'	1.83	0.79
2:AA:2863:C:O2'	2:AA:2864:G:H5'	1.81	0.79
3:AC:10:LEU:HD23	3:AC:220:PRO:HD3	1.65	0.79
5:AE:76:PRO:CB	5:AE:292:PRO:HG2	2.12	0.79
5:AE:82:ALA:O	5:AE:83:LEU:CG	2.29	0.79
6:AF:55:ARG:O	6:AF:79:ARG:CZ	2.31	0.79
6:AF:105:LYS:O	6:AF:109:LEU:HG	1.83	0.79
6:AF:152:GLU:O	6:AF:155:SER:HB3	1.81	0.79
8:AH:55:SER:CB	8:AH:60:HIS:HB2	2.12	0.79
12:AM:80:LYS:O	12:AM:84:ARG:HG3	1.83	0.79
13:AN:78:ARG:HB2	17:AR:21:PHE:CE1	2.18	0.79
18:AS:69:LEU:HD13	18:AS:107:LEU:HD13	1.65	0.79
21:AV:106:GLY:HA2	21:AV:142:ASN:OD1	1.82	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:36:PHE:HD1	25:A1:36:PHE:H	1.31	0.79
27:A3:26:PHE:O	27:A3:28:GLY:N	2.15	0.79
29:A5:40:LYS:HZ1	29:A5:49:CYS:HB2	1.48	0.79
30:A6:16:ALA:O	30:A6:19:GLY:N	2.16	0.79
31:A7:10:ARG:O	31:A7:14:LYS:HG3	1.83	0.79
34:BA:52:G:O2'	34:BA:53:A:H5'	1.83	0.79
34:BA:367:U:H4'	34:BA:368:U:OP1	1.82	0.79
34:BA:783:C:C2'	34:BA:784:C:H5'	2.11	0.79
34:BA:1125:U:H5''	34:BA:1126:U:H5	1.48	0.79
34:BA:1227:A:O2'	48:BP:115:LYS:HB3	1.81	0.79
34:BA:1423:G:H2'	34:BA:1424:C:H6	1.48	0.79
34:BA:1479:C:H2'	34:BA:1480:G:H5'	1.63	0.79
38:BF:16:ARG:HH22	38:BF:184:TYR:H	1.26	0.79
43:BK:6:ILE:HD13	43:BK:7:ALA:CA	2.12	0.79
50:BR:36:ILE:HG13	50:BR:59:MET:CE	2.13	0.79
52:BT:59:ILE:HG12	52:BT:71:PHE:HB3	1.65	0.79
55:BW:56:MET:O	55:BW:59:ALA:HB3	1.83	0.79
2:AA:76:C:O2'	22:AW:55:ARG:HG3	1.83	0.78
2:AA:775:G:N2	2:AA:787:U:C3'	2.46	0.78
2:AA:1031:G:H1	2:AA:1123:C:H42	0.83	0.78
2:AA:1106:G:O4'	9:AI:27:ASP:CG	2.26	0.78
2:AA:1140:C:C4	12:AM:49:ARG:CZ	2.66	0.78
2:AA:1701:A:C2'	2:AA:1702:G:H5'	2.12	0.78
2:AA:1864:U:C2'	2:AA:1869:G:H5'	2.12	0.78
2:AA:1936:A:C2	2:AA:1945:G:C8	2.71	0.78
2:AA:2415:G:C2	2:AA:2416:C:C6	2.72	0.78
2:AA:2899:G:H2'	2:AA:2900:A:H8	1.47	0.78
3:AC:190:ARG:HB2	3:AC:190:ARG:HH11	1.46	0.78
4:AD:210:LYS:HA	4:AD:213:LYS:CG	2.12	0.78
5:AE:268:LEU:CG	5:AE:296:VAL:HG22	2.12	0.78
6:AF:35:VAL:O	6:AF:38:ALA:HB3	1.82	0.78
8:AH:58:LYS:HA	8:AH:61:ARG:CD	2.12	0.78
10:AK:125:GLY:N	10:AK:145:VAL:O	2.14	0.78
13:AN:107:ARG:HA	13:AN:115:ILE:CD1	2.11	0.78
15:AP:50:VAL:O	15:AP:118:ALA:CA	2.25	0.78
16:AQ:44:ARG:HB3	16:AQ:62:HIS:CD2	2.18	0.78
17:AR:12:ASP:C	17:AR:13:ILE:HG12	2.06	0.78
25:A1:9:VAL:O	25:A1:13:ARG:NH1	2.16	0.78
26:A2:54:TYR:O	26:A2:56:VAL:N	2.17	0.78
34:BA:36:C:N3	34:BA:548:G:O6	2.15	0.78
34:BA:495:U:H2'	34:BA:495:U:O2	1.82	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:613:C:N3	34:BA:627:G:N2	2.28	0.78
34:BA:701:C:H4'	34:BA:702:A:OP2	1.82	0.78
34:BA:717:C:O2'	34:BA:718:G:OP2	2.01	0.78
34:BA:1269:A:H2'	34:BA:1270:C:C4'	2.12	0.78
34:BA:1270:C:O5'	34:BA:1270:C:H6	1.65	0.78
35:BB:51:G:H2'	35:BB:52:U:H6	1.47	0.78
41:BI:41:GLU:HG3	41:BI:62:TRP:CZ3	2.17	0.78
43:BK:22:GLU:C	43:BK:63:LEU:HD11	2.07	0.78
43:BK:109:ILE:HG12	43:BK:137:VAL:H	1.48	0.78
46:BN:103:LEU:O	46:BN:105:VAL:N	2.16	0.78
47:BO:32:PHE:HB3	47:BO:84:LEU:CD2	2.13	0.78
49:BQ:23:ARG:N	49:BQ:33:VAL:HG21	1.98	0.78
52:BT:97:SER:O	52:BT:98:LEU:HG	1.82	0.78
1:AB:58:A:H8	1:AB:58:A:O5'	1.66	0.78
2:AA:71:A:O2'	2:AA:72:U:OP2	2.01	0.78
2:AA:139:G:C4	2:AA:141(A):C:O2	2.37	0.78
2:AA:308:G:N2	2:AA:329:G:H21	1.80	0.78
2:AA:331:A:O2'	2:AA:332:A:OP1	2.01	0.78
2:AA:343:C:C4	2:AA:344:G:N1	2.51	0.78
2:AA:385:C:N3	2:AA:391:G:O6	2.15	0.78
2:AA:610:C:C6	2:AA:611:C:H5	2.02	0.78
2:AA:1007:C:H2'	2:AA:1008:C:C5	2.19	0.78
2:AA:1020:A:C1'	12:AM:49:ARG:NH2	2.46	0.78
2:AA:1143:A:O2'	2:AA:1144:G:C5'	2.31	0.78
2:AA:2123:G:N1	2:AA:2175:C:O2	2.15	0.78
2:AA:2776:A:H1'	2:AA:2778:A:N7	1.97	0.78
2:AA:2779:U:C1'	2:AA:2781:A:H62	1.96	0.78
2:AA:2804:C:H5	2:AA:2805:G:C6	2.00	0.78
4:AD:71:ASP:OD1	4:AD:119:PRO:HD2	1.84	0.78
5:AE:207:GLY:HA2	5:AE:257:GLY:HA3	1.65	0.78
5:AE:211:GLN:HE22	5:AE:215:LYS:C	1.91	0.78
8:AH:126:SER:O	8:AH:128:THR:N	2.16	0.78
9:AI:102:ILE:HD13	9:AI:118:LEU:CD2	2.13	0.78
9:AJ:60:ASP:HB2	9:AJ:128:LYS:HD3	1.63	0.78
11:AL:11:LEU:HD11	11:AL:28:LEU:CG	2.13	0.78
16:AQ:19:ASP:O	16:AQ:22:GLN:OE1	2.02	0.78
16:AQ:24:LEU:O	16:AQ:27:LEU:N	2.16	0.78
21:AV:14:LEU:HD23	21:AV:79:ILE:HG21	1.63	0.78
24:A0:64:ARG:HG2	24:A0:65:LEU:N	1.98	0.78
25:A1:99:ALA:HA	25:A1:106:PHE:CG	2.19	0.78
26:A2:49:GLU:N	26:A2:54:TYR:OH	2.16	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:A4:48:ARG:HG3	28:A4:71:SER:OG	1.83	0.78
30:A6:21:TYR:OH	30:A6:43:VAL:N	2.17	0.78
34:BA:299:G:H2'	34:BA:300:A:N7	1.98	0.78
34:BA:515:G:H1	34:BA:536:C:H42	1.30	0.78
34:BA:754:C:H4'	50:BR:72:ARG:NH2	1.97	0.78
34:BA:959:A:H3'	34:BA:960:U:C5'	2.13	0.78
34:BA:1418:A:N1	34:BA:1483:A:C6	2.51	0.78
35:BB:34:G:O2'	35:BB:35:A:H5''	1.83	0.78
35:BB:47:U:C5	35:BB:49:C:C5'	2.64	0.78
35:BB:49:C:N3	35:BB:65:G:N1	2.31	0.78
35:BC:22:G:H2'	35:BC:23:A:C8	2.18	0.78
37:BE:97:TRP:CZ2	37:BE:102:LEU:HD13	2.19	0.78
39:BG:78:LEU:HD13	39:BG:97:LEU:HD23	1.66	0.78
41:BI:1:MET:SD	41:BI:68:PRO:HG3	2.23	0.78
45:BM:78:ASN:N	45:BM:78:ASN:HD22	1.79	0.78
48:BP:57:ARG:O	48:BP:61:GLU:HB2	1.81	0.78
55:BW:45:GLN:HG2	55:BW:91:LEU:HD21	1.63	0.78
55:BW:63:ILE:HG22	55:BW:64:ASP:N	1.99	0.78
2:AA:221:A:N6	2:AA:266:G:C5	2.50	0.78
2:AA:270(N):G:H5''	10:AK:53:LYS:NZ	1.97	0.78
2:AA:525:U:OP1	2:AA:556:G:H5'	1.83	0.78
2:AA:678:C:H42	2:AA:799:G:H1	0.82	0.78
2:AA:928:G:H2'	2:AA:929:G:C8	2.19	0.78
2:AA:989:G:O2'	2:AA:990:A:O5'	2.00	0.78
2:AA:1005:C:H6	2:AA:1143:A:OP1	1.66	0.78
2:AA:1174:A:H2	2:AA:1175:U:H3'	1.43	0.78
2:AA:1332:G:H5''	2:AA:1333:C:OP2	1.83	0.78
2:AA:1364:G:N2	2:AA:1367:A:OP2	2.16	0.78
2:AA:1444:G:H2'	2:AA:1445:C:C5	2.18	0.78
2:AA:1952:A:C5	2:AA:1953:A:N1	2.51	0.78
2:AA:2262:U:O2'	2:AA:2263:C:H5'	1.82	0.78
2:AA:2270:G:O6	2:AA:2271:G:C2	2.36	0.78
2:AA:2327:A:H2'	2:AA:2328:A:C8	2.18	0.78
2:AA:2880:C:O2	24:A0:93:GLY:HA3	1.83	0.78
3:AC:10:LEU:HG	3:AC:32:LEU:HD22	1.65	0.78
4:AD:120:ASP:CG	4:AD:121:ALA:H	1.88	0.78
6:AF:193:LEU:HD13	6:AF:223:LEU:HB3	1.64	0.78
8:AH:60:HIS:O	8:AH:63:LEU:HB3	1.84	0.78
9:AJ:86:LYS:CD	11:AL:10:LYS:HE3	2.14	0.78
14:AO:114:VAL:HG11	14:AO:133:VAL:HA	1.65	0.78
15:AP:142:LYS:HG3	15:AP:143:VAL:N	1.97	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:35:VAL:HG22	16:AQ:103:ASP:OD1	1.83	0.78
19:AT:23:LYS:HE2	19:AT:67:ARG:NH1	1.97	0.78
22:AW:45:ARG:HE	22:AW:49:LEU:HG	1.48	0.78
26:A2:25:LEU:O	26:A2:26:GLN:HG3	1.83	0.78
27:A3:59:LEU:HA	27:A3:81:ILE:HG12	1.65	0.78
32:A8:29:LYS:HZ2	32:A8:36:LYS:HE2	1.47	0.78
34:BA:269:C:O2'	34:BA:270:A:H5'	1.81	0.78
34:BA:451:A:H61	34:BA:480:U:H2'	1.49	0.78
34:BA:789:U:O2'	36:B1:59:A:N1	2.17	0.78
34:BA:872:A:O2'	34:BA:873:A:H3'	1.83	0.78
34:BA:969:A:C8	34:BA:969:A:H5'	2.16	0.78
35:BB:72:C:C2	35:BB:73:A:C8	2.70	0.78
36:B1:50:G:H2'	36:B1:51:G:C8	2.18	0.78
43:BK:36:LEU:HA	43:BK:39:LEU:HB2	1.65	0.78
45:BM:4:ILE:HG12	45:BM:100:THR:HG22	1.65	0.78
1:AB:87:G:H2'	1:AB:89:G:N7	1.98	0.78
2:AA:270(C):C:N4	2:AA:270(W):G:N1	2.31	0.78
2:AA:324:A:H2	2:AA:325:G:H1'	1.48	0.78
2:AA:442:G:HO2'	6:AF:46:TYR:HE1	1.31	0.78
2:AA:511:U:O4	2:AA:512:G:H1'	1.82	0.78
2:AA:530:G:H1	2:AA:2021:C:H3'	1.47	0.78
2:AA:541:C:H42	2:AA:552:G:H1	1.31	0.78
2:AA:587:C:C2	2:AA:671:C:O4'	2.37	0.78
2:AA:839:U:H4'	2:AA:1191:G:N3	1.98	0.78
2:AA:880:G:H2'	2:AA:881:G:H5'	1.64	0.78
2:AA:1022:G:C2	2:AA:1139:G:N2	2.51	0.78
2:AA:1025:G:C1'	2:AA:1134:G:H4'	2.13	0.78
2:AA:1210:A:H1'	2:AA:1212:G:N2	1.98	0.78
2:AA:1500:G:H2'	2:AA:1501:C:H6	1.48	0.78
2:AA:1664:A:N3	2:AA:1665:A:N7	2.31	0.78
2:AA:1790:C:C5'	2:AA:1828:G:H1	1.96	0.78
2:AA:2681:C:O2'	2:AA:2682:U:C5'	2.30	0.78
4:AD:166:LYS:HB2	4:AD:171:VAL:HA	1.63	0.78
5:AE:76:PRO:HA	5:AE:292:PRO:CB	2.13	0.78
6:AF:144:PHE:HE2	6:AF:156:LEU:CD2	1.95	0.78
6:AF:218:VAL:HG13	6:AF:222:ASP:OD2	1.83	0.78
7:AG:105:SER:C	7:AG:106:PHE:CD1	2.62	0.78
10:AK:124:LEU:CD1	10:AK:145:VAL:HG12	2.13	0.78
11:AL:93:LYS:HA	11:AL:96:ILE:HD12	1.65	0.78
11:AL:109:ALA:HB3	11:AL:125:MET:SD	2.24	0.78
14:AO:64:ILE:HG22	14:AO:108:VAL:HG22	1.63	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:117:GLU:CD	14:AO:136:ALA:O	2.26	0.78
16:AQ:18:THR:HG1	16:AQ:20:TYR:HD1	1.29	0.78
21:AV:3:LEU:HD13	21:AV:34:LEU:CD2	2.14	0.78
21:AV:168:VAL:CG1	21:AV:169:VAL:N	2.45	0.78
22:AW:7:GLU:HG2	22:AW:8:ILE:N	1.96	0.78
24:A0:28:LEU:HD12	24:A0:29:LEU:HD22	1.66	0.78
24:A0:38:VAL:HB	24:A0:39:PRO:CD	2.12	0.78
28:A4:17:GLN:HG2	28:A4:33:VAL:HG12	1.65	0.78
34:BA:517:G:H5'	34:BA:519:C:C4	2.17	0.78
34:BA:1026:G:C2'	34:BA:1027:C:H5'	2.12	0.78
34:BA:1097:C:H2'	34:BA:1098:C:H6	1.47	0.78
34:BA:1131:G:OP2	44:BL:20:ARG:NH2	2.15	0.78
35:BB:74:C:H4'	35:BB:74:C:OP1	1.83	0.78
39:BG:35:ARG:O	39:BG:37:PRO:HD3	1.83	0.78
39:BG:101:LEU:HB2	39:BG:138:TYR:HB3	1.66	0.78
41:BI:7:ASN:OD1	41:BI:62:TRP:HB2	1.84	0.78
41:BI:42:GLU:HG3	41:BI:61:LEU:CD2	2.13	0.78
46:BN:84:VAL:HG21	46:BN:110:ASP:HA	1.64	0.78
1:AB:79:C:H42	1:AB:97:G:H1	1.32	0.78
2:AA:35:G:O4'	2:AA:454:A:H1'	1.84	0.78
2:AA:126:A:N7	2:AA:127:A:C4	2.51	0.78
2:AA:261:G:O4'	2:AA:608:A:C2	2.37	0.78
2:AA:303:U:H2'	2:AA:304:G:H8	1.47	0.78
2:AA:401:A:H2'	2:AA:402:A:C8	2.14	0.78
2:AA:642:G:N2	2:AA:646:A:H61	1.77	0.78
2:AA:677:A:O2'	2:AA:678:C:H5'	1.84	0.78
2:AA:810:U:OP1	2:AA:1253:A:N7	2.16	0.78
2:AA:976:C:C5'	2:AA:1156:A:N6	2.46	0.78
2:AA:1215:G:H5''	25:A1:8:ILE:HG21	1.63	0.78
2:AA:1598:C:O3'	19:AT:33:SER:OG	2.02	0.78
2:AA:1634:A:O2'	2:AA:1635:G:OP1	2.00	0.78
2:AA:2180:U:H2'	2:AA:2181:G:O4'	1.84	0.78
2:AA:2561:A:H2'	2:AA:2562:U:O5'	1.83	0.78
5:AE:107:GLU:HB3	5:AE:110:ARG:HD2	1.65	0.78
7:AG:136:ARG:HD3	7:AG:156:ARG:C	2.08	0.78
8:AH:73:ASN:HB3	8:AH:137:LYS:HZ1	1.48	0.78
8:AH:109:SER:OG	8:AH:110:HIS:N	2.16	0.78
8:AH:148:ARG:NH2	8:AH:164:GLU:H	1.81	0.78
13:AN:11:ALA:HB1	13:AN:99:PHE:HB3	1.65	0.78
20:AU:18:GLU:O	20:AU:21:LYS:CG	2.32	0.78
21:AV:92:VAL:O	21:AV:94:VAL:HG23	1.83	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:103:ARG:CG	21:AV:139:THR:HG22	2.08	0.78
21:AV:112:LEU:HD13	21:AV:142:ASN:OD1	1.83	0.78
24:A0:83:ILE:HG23	24:A0:86:ARG:NE	1.98	0.78
24:A0:86:ARG:NH2	24:A0:118:GLU:HG3	1.98	0.78
25:A1:21:ALA:HB1	25:A1:24:PHE:CZ	2.19	0.78
25:A1:92:ARG:O	25:A1:95:LEU:HG	1.84	0.78
26:A2:38:LEU:N	26:A2:38:LEU:HD23	1.98	0.78
26:A2:40:VAL:HG12	26:A2:51:ALA:O	1.81	0.78
26:A2:54:TYR:O	26:A2:55:THR:C	2.26	0.78
27:A3:42:GLY:HA3	27:A3:65:GLY:O	1.82	0.78
29:A5:18:MET:O	29:A5:21:SER:CB	2.30	0.78
30:A6:39:LYS:O	30:A6:40:TYR:HD1	1.66	0.78
34:BA:22:G:C1'	34:BA:914:A:N6	2.46	0.78
34:BA:226:G:O2'	34:BA:227:G:H5'	1.84	0.78
34:BA:266:G:H4'	34:BA:267:C:H5	1.48	0.78
34:BA:530:G:C8	35:BB:35:A:C1'	2.66	0.78
34:BA:656:C:O2'	34:BA:657:G:H5'	1.84	0.78
34:BA:952:U:H5'	34:BA:972:C:H41	1.46	0.78
34:BA:983:A:H2	34:BA:984:C:H6	1.30	0.78
34:BA:1192:C:C6	34:BA:1192:C:C3'	2.65	0.78
34:BA:1244:C:OP1	56:BX:9:ARG:HD3	1.83	0.78
34:BA:1326:C:OP2	56:BX:6:ARG:CZ	2.31	0.78
35:BB:53:G:H2'	35:BB:54:U:C5'	2.13	0.78
37:BE:17:PHE:HA	37:BE:42:ILE:HG21	1.64	0.78
40:BH:84:PHE:HB2	40:BH:134:ALA:CB	2.12	0.78
41:BI:78:GLU:O	41:BI:81:ILE:HD12	1.83	0.78
47:BO:24:VAL:HG22	47:BO:98:TYR:CZ	2.16	0.78
48:BP:20:THR:HA	48:BP:25:ILE:CB	2.14	0.78
50:BR:26:GLU:N	50:BR:26:GLU:CD	2.39	0.78
52:BT:51:TYR:HD1	52:BT:51:TYR:H	1.32	0.78
53:BU:46:GLU:C	53:BU:48:GLY:H	1.86	0.78
2:AA:324:A:N3	2:AA:324:A:H2'	1.99	0.78
2:AA:715:G:OP2	2:AA:715:G:C3'	2.27	0.78
2:AA:833:U:H2'	2:AA:834:C:C6	2.19	0.78
2:AA:998:C:H42	2:AA:1157:G:H1	1.28	0.78
2:AA:1024:G:N7	2:AA:1025:G:N7	2.31	0.78
2:AA:1039:G:N2	2:AA:1040:C:H1'	1.99	0.78
2:AA:1084:A:O4'	9:AI:38:ALA:CB	2.31	0.78
2:AA:1116:C:OP2	2:AA:1116:C:H6	1.66	0.78
2:AA:1152:C:C2'	2:AA:1153:C:H5'	2.12	0.78
2:AA:1655:A:O2'	2:AA:1656:C:H5'	1.83	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1772:G:C2'	2:AA:1773:A:H4'	2.06	0.78
2:AA:1818:U:C5	4:AD:155:ARG:CZ	2.66	0.78
2:AA:1880:C:O2	2:AA:1880:C:H2'	1.82	0.78
2:AA:2011:U:H2'	2:AA:2012:G:O4'	1.82	0.78
2:AA:2051:A:C5'	2:AA:2578:G:H5''	2.14	0.78
2:AA:2147:G:H2'	2:AA:2148:G:H8	1.48	0.78
2:AA:2211:G:OP1	2:AA:2212:A:H5'	1.81	0.78
2:AA:2280:G:C6	2:AA:2281:C:N4	2.52	0.78
2:AA:2295:C:H2'	2:AA:2296:U:H5'	1.66	0.78
2:AA:2575:C:H5'	5:AE:241:TRP:NE1	1.98	0.78
2:AA:2867:G:H5'	2:AA:2868:A:H5'	1.64	0.78
3:AC:14:VAL:HG11	3:AC:222:VAL:HG23	1.64	0.78
5:AE:76:PRO:CB	5:AE:77:PRO:HD3	2.04	0.78
6:AF:58:ALA:CB	6:AF:79:ARG:N	2.46	0.78
18:AS:86:LEU:HD13	18:AS:87:PRO:HD2	1.65	0.78
23:AX:26:LEU:HD13	23:AX:47:VAL:CG2	2.13	0.78
25:A1:55:ARG:CA	25:A1:58:ARG:HE	1.96	0.78
25:A1:99:ALA:HB2	25:A1:106:PHE:CZ	2.18	0.78
31:A7:43:THR:O	31:A7:46:ASP:N	2.15	0.78
34:BA:190:C:H2'	34:BA:190(A):C:C6	2.16	0.78
34:BA:619:U:C4	39:BG:135:LEU:HD21	2.18	0.78
34:BA:646:U:H2'	34:BA:647:C:C6	2.19	0.78
34:BA:1054:C:OP2	34:BA:1196:U:O3'	2.02	0.78
34:BA:1060:C:H5'	45:BM:52:GLY:H	1.49	0.78
34:BA:1124:G:H3'	34:BA:1145:C:H41	1.45	0.78
34:BA:1236:A:OP1	56:BX:2:GLY:N	2.15	0.78
34:BA:1361:G:N7	34:BA:361(A):C:C5	2.51	0.78
34:BA:1466:C:H2'	34:BA:1467:G:C8	2.19	0.78
35:BB:32:C:C4	35:BB:33:U:N3	2.52	0.78
35:BB:37:G:C8	35:BB:38:A:C8	2.72	0.78
38:BF:28:GLN:NE2	38:BF:29:TYR:H	1.81	0.78
38:BF:172:ARG:HH22	38:BF:203:PHE:HE2	1.28	0.78
47:BO:72:GLY:HA3	47:BO:102:ARG:HH11	1.49	0.78
49:BQ:60:SER:O	49:BQ:61:TRP:HB3	1.82	0.78
51:BS:32:TYR:CE2	51:BS:35:LYS:HB2	2.19	0.78
52:BT:5:VAL:HA	52:BT:59:ILE:O	1.84	0.78
56:BX:24:ARG:O	56:BX:25:LYS:HB2	1.82	0.78
1:AB:12:C:H5	27:A3:53:MET:O	1.67	0.78
1:AB:59:A:H5'	7:AG:144:ARG:HD3	1.65	0.78
2:AA:58:G:C2'	2:AA:73:A:N6	2.47	0.78
2:AA:274:G:C2'	2:AA:275:G:H5'	2.13	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:541:C:H2'	2:AA:542:C:C6	2.19	0.78
2:AA:842:G:H2'	2:AA:843:G:H8	1.47	0.78
2:AA:854:G:H2'	2:AA:855:G:C8	2.16	0.78
2:AA:914:C:H2'	2:AA:915:C:H5'	1.63	0.78
2:AA:1081:U:H4'	11:AL:123:ALA:HB1	1.66	0.78
2:AA:1291:C:C2'	2:AA:1292:U:H5'	2.14	0.78
2:AA:1355:G:H2'	2:AA:1356:G:H8	1.49	0.78
2:AA:1473:G:C2'	2:AA:1474:C:O4'	2.32	0.78
2:AA:1742:C:H2'	2:AA:1743:G:C1'	2.13	0.78
2:AA:1859:A:C2'	2:AA:1860:G:H5'	2.13	0.78
2:AA:1862:G:N2	2:AA:1880:C:N3	2.28	0.78
4:AD:89:ASN:O	4:AD:90:ILE:CD1	2.27	0.78
5:AE:74:GLU:HA	5:AE:293:TYR:HE2	1.48	0.78
9:AI:16:SER:OG	9:AJ:105:GLY:CA	2.31	0.78
9:AI:115:LYS:CE	9:AI:127:LEU:HB3	2.14	0.78
15:AP:67:ALA:HB2	15:AP:70:ARG:NH1	1.99	0.78
17:AR:13:ILE:CG1	17:AR:33:SER:HB2	2.13	0.78
21:AV:53:ASP:CG	21:AV:54:ILE:H	1.91	0.78
24:A0:58:GLY:O	24:A0:59:ASP:HB3	1.82	0.78
26:A2:33:VAL:HB	26:A2:63:HIS:CG	2.18	0.78
34:BA:8:A:N6	39:BG:209:ARG:HB2	1.98	0.78
34:BA:123:C:OP1	34:BA:311:C:O2'	2.01	0.78
34:BA:203:U:H5''	34:BA:204:U:OP1	1.83	0.78
34:BA:523:A:O5'	34:BA:523:A:H8	1.66	0.78
34:BA:1127:G:H1'	34:BA:1148:U:N3	1.99	0.78
34:BA:1129:C:OP1	34:BA:1130:A:OP1	2.02	0.78
34:BA:1505:G:H4'	34:BA:1506:U:O5'	1.84	0.78
37:BE:169:LYS:HD3	37:BE:170:GLU:N	1.98	0.78
38:BF:155:GLY:HA2	38:BF:164:ARG:O	1.83	0.78
41:BI:94:GLN:H	41:BI:94:GLN:NE2	1.82	0.78
43:BK:86:ILE:HB	43:BK:133:LEU:O	1.84	0.78
46:BN:62:GLN:NE2	46:BN:63:LEU:H	1.81	0.78
47:BO:8:ASN:O	47:BO:11:VAL:HB	1.82	0.78
47:BO:82:VAL:HG12	47:BO:83:VAL:H	1.46	0.78
53:BU:53:ARG:NH1	53:BU:60:GLY:N	2.30	0.78
2:AA:111:A:C3'	2:AA:112:U:H5''	2.14	0.78
2:AA:274:G:N3	2:AA:274:G:O5'	2.17	0.78
2:AA:326:G:H22	2:AA:337:C:H1'	0.78	0.78
2:AA:407:G:N2	2:AA:420:C:N3	2.31	0.78
2:AA:997:G:OP1	25:A1:93:LYS:HE2	1.82	0.78
2:AA:1012:U:C6	2:AA:1012:U:C3'	2.64	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1026:U:H2'	2:AA:1027:A:O5'	1.83	0.78
2:AA:1111:A:O2'	2:AA:1112:G:O4'	2.00	0.78
2:AA:1562:A:H2'	2:AA:1563:G:C8	2.18	0.78
2:AA:1627:G:H1	2:AA:1639:U:H3	1.28	0.78
2:AA:1636:C:H1'	2:AA:1761:C:O2	1.84	0.78
2:AA:2014:A:N6	2:AA:2015:A:H61	1.82	0.78
2:AA:2023:G:N1	2:AA:2040:C:N4	2.29	0.78
2:AA:2331:G:H4'	27:A3:70:ILE:HG13	1.66	0.78
2:AA:2491:U:O2'	2:AA:2492:U:H5'	1.83	0.78
2:AA:2539:C:O2'	2:AA:2540:C:H5'	1.84	0.78
2:AA:2868:A:O2'	2:AA:2869:G:H5'	1.82	0.78
3:AC:70:LYS:CA	3:AC:157:LYS:HZ3	1.97	0.78
6:AF:197:SER:CB	6:AF:239:ALA:N	2.46	0.78
12:AM:108:PRO:HG2	12:AM:109:TYR:HD1	1.47	0.78
13:AN:106:LEU:HD12	13:AN:114:ILE:HG21	1.65	0.78
18:AS:30:GLU:HA	18:AS:33:ARG:CD	2.11	0.78
21:AV:26:LYS:HB3	21:AV:27:GLU:OE2	1.84	0.78
23:AX:30:ARG:HH11	23:AX:30:ARG:CG	1.96	0.78
24:A0:19:ALA:O	24:A0:22:ARG:HB3	1.84	0.78
24:A0:23:ASN:OD1	24:A0:24:GLN:HG2	1.84	0.78
31:A7:28:ARG:HA	31:A7:31:LEU:CD1	2.12	0.78
34:BA:49:U:C6	34:BA:364:A:N6	2.51	0.78
34:BA:51:A:O2'	34:BA:52:G:P	2.41	0.78
34:BA:437:U:C2'	34:BA:438:G:H5'	2.14	0.78
34:BA:452:A:N6	34:BA:480:U:N3	2.32	0.78
34:BA:652:U:H1'	34:BA:653:A:H2	1.46	0.78
34:BA:902:G:O2'	34:BA:903:G:H5'	1.84	0.78
34:BA:950:U:H2'	34:BA:951:G:H5'	1.66	0.78
35:BB:7:U:N3	35:BB:67:A:C2	2.51	0.78
37:BE:185:ILE:HG22	37:BE:199:TYR:CB	2.13	0.78
40:BH:74:GLY:O	40:BH:115:VAL:HG12	1.83	0.78
41:BI:52:ILE:O	41:BI:55:ASP:HB2	1.83	0.78
48:BP:84:ILE:CG1	48:BP:85:GLY:H	1.88	0.78
55:BW:60:GLU:OE1	55:BW:81:LYS:HE3	1.83	0.78
2:AA:37:C:H4'	2:AA:451:C:H5''	1.65	0.78
2:AA:54:G:C1'	31:A7:35:ARG:HH22	1.96	0.78
2:AA:270(J):G:O6	2:AA:270(P):C:N3	2.16	0.78
2:AA:519:U:H4'	18:AS:75:TYR:HB3	1.66	0.78
2:AA:648:G:N3	2:AA:649:G:C8	2.52	0.78
2:AA:869:G:H2'	2:AA:870:A:H5''	1.66	0.78
2:AA:1803:A:N7	2:AA:1804:C:C5	2.52	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1819:A:H4'	2:AA:1820:U:H5'	1.66	0.78
2:AA:1941:C:O2	2:AA:1941:C:H2'	1.83	0.78
2:AA:2051:A:H4'	5:AE:238:LEU:HD23	1.65	0.78
2:AA:2464:C:H42	2:AA:2486:G:H1	0.81	0.78
2:AA:2805:G:H3'	2:AA:2807:G:C5'	2.13	0.78
6:AF:82:GLN:H	6:AF:87:ARG:CD	1.97	0.78
8:AH:51:VAL:HG13	8:AH:64:HIS:HB3	1.64	0.78
10:AK:110:LEU:HD11	10:AK:114:LYS:NZ	1.99	0.78
12:AM:10:VAL:HG12	12:AM:36:VAL:HG13	1.66	0.78
15:AP:26:LYS:NZ	15:AP:90:PHE:CE1	2.49	0.78
16:AQ:27:LEU:N	16:AQ:33:ARG:HH12	1.82	0.78
18:AS:42:ARG:CG	18:AS:43:GLY:H	1.96	0.78
25:A1:31:GLN:C	25:A1:33:ARG:H	1.92	0.78
34:BA:106:C:O2	34:BA:379:C:H5'	1.84	0.78
34:BA:137:C:H1'	51:BS:63:GLY:H	1.48	0.78
34:BA:306:G:H2'	34:BA:307:C:C6	2.19	0.78
34:BA:378:G:N1	34:BA:385:C:N4	2.02	0.78
34:BA:501:C:H2'	34:BA:502:G:H8	1.49	0.78
34:BA:1157:A:H1'	34:BA:1181:G:N3	1.99	0.78
34:BA:1195:C:O5'	34:BA:1195:C:H6	1.66	0.78
35:BC:32:C:O2	35:BC:32:C:H2'	1.84	0.78
39:BG:109:GLY:O	39:BG:110:PHE:C	2.27	0.78
40:BH:15:ARG:HG3	40:BH:15:ARG:HH11	1.49	0.78
40:BH:35:GLY:CA	40:BH:112:LEU:HD12	2.13	0.78
41:BI:95:GLU:CB	41:BI:96:PRO:HD3	2.12	0.78
51:BS:6:LEU:CD2	51:BS:6:LEU:O	2.31	0.78
53:BU:40:LEU:C	53:BU:42:ARG:H	1.91	0.78
2:AA:13:A:C6	2:AA:525:U:H2'	2.19	0.78
2:AA:30:G:N2	2:AA:511:U:H1'	1.97	0.78
2:AA:239:U:O2'	2:AA:240:G:H5'	1.84	0.78
2:AA:356:G:H2'	2:AA:357:A:C8	2.18	0.78
2:AA:449:A:OP2	6:AF:85:LYS:CA	2.30	0.78
2:AA:582:G:H1	2:AA:1258:C:H42	1.30	0.78
2:AA:853:G:H1	2:AA:924:C:N4	1.82	0.78
2:AA:1050:A:C2'	2:AA:1051:G:H5'	2.12	0.78
2:AA:1202:C:N3	2:AA:1243:G:N2	2.28	0.78
2:AA:1406:U:C2'	2:AA:1407:C:O5'	2.32	0.78
2:AA:1517:G:C2'	2:AA:1518:C:H5'	2.13	0.78
2:AA:1668:A:N1	2:AA:1674:G:H1'	1.98	0.78
2:AA:1786:A:C2	2:AA:1938:A:N1	2.51	0.78
2:AA:2210:G:H4'	2:AA:2211:G:C5'	2.13	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2250:G:H5'	15:AP:102:ARG:HD3	1.65	0.78
2:AA:2297:C:H2'	2:AA:2298:A:H8	1.48	0.78
2:AA:2525:G:C2	2:AA:2539:C:C4	2.71	0.78
2:AA:2700:C:H3'	2:AA:2701:C:H5''	1.65	0.78
3:AC:14:VAL:HG12	3:AC:15:ASP:H	1.49	0.78
4:AD:140:VAL:HA	4:AD:191:VAL:HA	1.66	0.78
5:AE:44:TYR:CZ	5:AE:308:VAL:HG22	2.19	0.78
6:AF:83:ALA:C	6:AF:84:VAL:HG22	2.09	0.78
6:AF:93:LYS:HB2	6:AF:96:LYS:CG	2.13	0.78
7:AG:140:ARG:HD2	7:AG:144:ARG:NH2	1.98	0.78
8:AH:25:VAL:HB	8:AH:32:LEU:HD22	1.65	0.78
9:AI:60:ASP:HB2	9:AI:128:LYS:HD3	1.64	0.78
10:AK:95:SER:O	10:AK:98:ILE:HB	1.83	0.78
13:AN:121:VAL:C	13:AN:122:ILE:HD12	2.09	0.78
14:AO:67:ARG:HH11	14:AO:111:ALA:HB3	1.48	0.78
16:AQ:89:GLY:HA3	16:AQ:125:ALA:HB1	1.65	0.78
20:AU:20:HIS:O	20:AU:23:VAL:HB	1.84	0.78
26:A2:20:ILE:HG12	26:A2:67:LYS:NZ	1.98	0.78
31:A7:30:ILE:HD13	31:A7:33:ARG:NH1	1.99	0.78
34:BA:451:A:O2'	34:BA:452:A:C8	2.35	0.78
34:BA:596:C:H42	34:BA:644:G:H1	1.32	0.78
34:BA:667:G:H1	34:BA:739:C:H42	1.32	0.78
34:BA:713:G:H2'	34:BA:714:G:N7	1.99	0.78
34:BA:1283:G:O2'	34:BA:1284:C:H5'	1.82	0.78
35:BC:17:U:C4	35:BC:19:G:C8	2.72	0.78
37:BE:12:GLU:O	37:BE:14:GLY:N	2.18	0.78
38:BF:56:ASP:HB2	38:BF:69:HIS:NE2	1.98	0.78
38:BF:157:ILE:HG21	38:BF:164:ARG:HE	1.47	0.78
41:BI:21:LEU:O	41:BI:24:GLU:HG3	1.83	0.78
43:BK:44:PHE:CE2	43:BK:109:ILE:HG21	2.17	0.78
43:BK:97:VAL:HG13	43:BK:98:LYS:NZ	1.99	0.78
55:BW:77:ALA:O	55:BW:80:ARG:HB2	1.83	0.78
1:AB:5:C:H2'	1:AB:6:C:C6	2.18	0.77
2:AA:125:G:H5''	31:A7:19:ARG:HH11	0.79	0.77
2:AA:283:A:N7	2:AA:284:U:H5	1.82	0.77
2:AA:307:G:N2	2:AA:310:A:O4'	2.16	0.77
2:AA:408:G:H2'	2:AA:409:C:O4'	1.84	0.77
2:AA:697:C:OP2	2:AA:1555:G:N2	2.17	0.77
2:AA:749:C:H2'	2:AA:750:A:H8	1.48	0.77
2:AA:911:A:N6	15:AP:15:THR:O	2.17	0.77
2:AA:1022:G:C2	2:AA:1140:C:C5	2.71	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1023:U:H2'	2:AA:1024:G:C5'	2.14	0.77
2:AA:1165:U:HO2'	2:AA:1166:C:H6	1.25	0.77
2:AA:1324:G:H1'	2:AA:1616:A:N6	1.99	0.77
2:AA:1384:A:H1'	2:AA:1405:U:O4'	1.83	0.77
2:AA:444(A):A:H5''	2:AA:1445:C:OP1	1.84	0.77
2:AA:1661:G:O2'	2:AA:1662:C:H5'	1.84	0.77
2:AA:1676:A:H2'	2:AA:1677:A:C8	2.17	0.77
2:AA:2021:C:O2	2:AA:2021:C:C2'	2.31	0.77
2:AA:2086:U:N3	2:AA:2233:U:O4	2.17	0.77
2:AA:2116:G:OP2	3:AC:126:LYS:CB	2.32	0.77
2:AA:2132:U:O2	2:AA:2133:G:N3	2.16	0.77
2:AA:2136:C:N3	2:AA:2155:G:C2	2.53	0.77
2:AA:2295:C:C2'	2:AA:2296:U:H5'	2.13	0.77
2:AA:2424:C:O2'	2:AA:2429:G:O2'	2.00	0.77
2:AA:2451:A:H4'	35:BC:75:C:N4	1.97	0.77
2:AA:2644:G:H8	2:AA:2644:G:O5'	1.65	0.77
2:AA:2694:G:C6	2:AA:2695:C:C5	2.72	0.77
4:AD:66:PHE:CD2	4:AD:67:LYS:HE3	2.16	0.77
7:AG:81:GLU:O	7:AG:85:GLN:CG	2.32	0.77
7:AG:106:PHE:C	7:AG:130:VAL:HG23	2.08	0.77
8:AH:145:ALA:HA	8:AH:148:ARG:HB2	1.66	0.77
9:AJ:22:VAL:HG13	9:AJ:38:ALA:HB1	1.66	0.77
10:AK:51:LYS:O	10:AK:55:GLN:HG3	1.83	0.77
13:AN:1:MET:N	13:AN:32:TYR:CB	2.47	0.77
14:AO:79:ASP:CG	14:AO:80:ASP:H	1.91	0.77
16:AQ:111:PRO:O	16:AQ:116:PHE:HB2	1.82	0.77
18:AS:85:VAL:HA	18:AS:95:ILE:HG12	1.63	0.77
21:AV:72:ASP:OD2	21:AV:78:PRO:HA	1.83	0.77
21:AV:117:VAL:HB	21:AV:167:THR:HB	1.66	0.77
22:AW:59:ILE:HG23	22:AW:60:GLN:N	1.99	0.77
25:A1:97:ASP:O	25:A1:100:ALA:HB3	1.83	0.77
26:A2:50:ASP:OD1	26:A2:53:LYS:HE3	1.84	0.77
31:A7:38:GLY:O	31:A7:39:ARG:HB2	1.83	0.77
34:BA:507:C:H2'	34:BA:508:C:H5	1.48	0.77
34:BA:582:U:H1'	52:BT:105:ALA:C	2.10	0.77
34:BA:1139:G:N2	34:BA:1143:G:N1	2.29	0.77
34:BA:1192:C:C5	34:BA:1193:G:C8	2.72	0.77
34:BA:1286:A:C5'	56:BX:25:LYS:HG2	2.13	0.77
34:BA:1363:A:H1'	34:BA:1365:G:N7	1.99	0.77
34:BA:1392:G:H2'	34:BA:1393:U:H6	1.40	0.77
34:BA:1399:C:C4	34:BA:1502:A:N6	2.51	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:19:G:O2'	35:BB:20:G:P	2.41	0.77
36:B1:66:G:H2'	36:B1:67:U:H5'	1.66	0.77
37:BE:165:VAL:O	37:BE:187:LEU:O	1.99	0.77
40:BH:81:GLU:CB	40:BH:90:VAL:HG22	2.02	0.77
44:BL:15:ALA:HA	44:BL:65:VAL:HG23	1.66	0.77
45:BM:24:VAL:HG12	45:BM:28:ARG:HE	1.47	0.77
47:BO:93:LEU:HD23	47:BO:93:LEU:N	1.98	0.77
56:BX:10:ARG:NH2	56:BX:13:ILE:HD12	1.99	0.77
1:AB:13:A:N6	1:AB:70:C:H5'	2.00	0.77
1:AB:59:A:OP1	7:AG:141:VAL:HG22	1.84	0.77
2:AA:38:A:H2'	2:AA:39:C:C6	2.19	0.77
2:AA:580:C:H2'	2:AA:581:C:H6	1.45	0.77
2:AA:617:G:H2'	2:AA:618:G:C8	2.19	0.77
2:AA:931:G:H2'	2:AA:932:G:N9	1.98	0.77
2:AA:1183:G:OP2	2:AA:1183:G:C3'	2.28	0.77
2:AA:1212:G:N1	2:AA:1236:G:O6	2.17	0.77
2:AA:1467:C:C5	2:AA:1468:C:H5	2.02	0.77
2:AA:1762:A:H3'	2:AA:1762:A:C8	2.19	0.77
2:AA:1809:A:N6	28:A4:3:LYS:CG	2.43	0.77
2:AA:2230:G:H2'	2:AA:2231:C:H6	1.49	0.77
2:AA:2254:C:O2'	2:AA:2255:G:H5'	1.83	0.77
2:AA:2436:G:O2'	2:AA:2598:A:N1	2.17	0.77
2:AA:2810:A:H62	2:AA:2891:G:H21	1.28	0.77
3:AC:190:ARG:HB2	3:AC:190:ARG:CZ	2.15	0.77
4:AD:145:LEU:HD13	4:AD:146:LYS:NZ	1.99	0.77
5:AE:82:ALA:HB2	5:AE:99:VAL:H	1.49	0.77
5:AE:200:ASP:O	5:AE:311:PHE:HA	1.84	0.77
9:AI:10:ILE:O	9:AI:18:LEU:HD21	1.84	0.77
9:AI:17:GLU:HG3	9:AJ:104:SER:O	1.84	0.77
10:AK:104:ALA:HB3	10:AK:105:GLN:OE1	1.83	0.77
12:AM:24:SER:CA	12:AM:86:MET:HE3	2.14	0.77
12:AM:53:ILE:CG2	12:AM:135:ILE:HD11	2.14	0.77
12:AM:87:LEU:HD13	12:AM:98:PHE:CZ	2.19	0.77
14:AO:55:GLN:CG	14:AO:56:LYS:H	1.96	0.77
18:AS:23:LEU:CD2	29:A5:27:ALA:HB2	2.14	0.77
22:AW:43:PRO:C	22:AW:45:ARG:H	1.92	0.77
25:A1:7:GLY:C	25:A1:8:ILE:HD12	2.09	0.77
27:A3:48:GLY:H	27:A3:49:GLN:HE21	1.32	0.77
31:A7:9:ASN:O	31:A7:10:ARG:C	2.25	0.77
34:BA:673:G:H5'	41:BI:87:ARG:HE	1.49	0.77
34:BA:1044:A:H2'	34:BA:1045:C:O4'	1.84	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1163:C:O2'	34:BA:1164:G:H5'	1.83	0.77
34:BA:1448:C:N3	34:BA:1455:G:N2	2.30	0.77
35:BB:41:U:C6	35:BB:41:U:C4'	2.65	0.77
37:BE:221:LEU:HD13	37:BE:221:LEU:C	2.09	0.77
38:BF:157:ILE:HB	38:BF:164:ARG:HD3	1.65	0.77
41:BI:10:LEU:HD21	41:BI:26:ILE:HD11	1.65	0.77
43:BK:29:SER:HB3	43:BK:32:LYS:HZ2	1.48	0.77
46:BN:19:ALA:HB2	46:BN:80:VAL:HG11	1.66	0.77
52:BT:28:PRO:HA	52:BT:35:VAL:HA	1.64	0.77
56:BX:9:ARG:CZ	56:BX:21:TYR:HB3	2.14	0.77
1:AB:88:C:H3'	1:AB:88:C:C6	2.20	0.77
2:AA:205:G:O2'	2:AA:206:U:P	2.41	0.77
2:AA:301:G:H2'	2:AA:302:C:H6	1.50	0.77
2:AA:809:G:C5	2:AA:810:U:C5	2.72	0.77
2:AA:969:U:H2'	2:AA:970:C:C6	2.17	0.77
2:AA:1083:U:C3'	9:AI:37:VAL:CA	2.62	0.77
2:AA:1255:U:H5''	2:AA:1256:G:O5'	1.84	0.77
2:AA:1298:C:H4'	2:AA:1302:A:N6	1.99	0.77
2:AA:1771:C:H42	2:AA:1980:G:H1	0.80	0.77
2:AA:2468:G:H22	2:AA:2481:G:C2'	1.97	0.77
2:AA:2597:G:H2'	2:AA:2598:A:C8	2.19	0.77
2:AA:2605:U:O2	2:AA:2606:C:C5	2.38	0.77
2:AA:2792:G:N1	2:AA:2804:C:N4	2.33	0.77
2:AA:2825:C:H2'	2:AA:2826:A:O4'	1.83	0.77
7:AG:128:LEU:O	7:AG:129:ASP:HB2	1.84	0.77
8:AH:34:ARG:HH22	8:AH:74:MET:N	1.81	0.77
11:AL:73:PRO:HB2	11:AL:78:LEU:HD21	1.64	0.77
12:AM:50:GLU:O	12:AM:54:VAL:HG23	1.85	0.77
13:AN:102:VAL:HG11	13:AN:106:LEU:CD1	2.13	0.77
16:AQ:110:THR:HG23	16:AQ:114:LYS:HB2	1.64	0.77
18:AS:6:ILE:HG13	18:AS:104:THR:HG23	1.66	0.77
23:AX:52:HIS:ND1	23:AX:53:LEU:N	2.31	0.77
31:A7:30:ILE:HA	31:A7:33:ARG:HG3	1.65	0.77
34:BA:279:A:H5''	34:BA:280:C:H3'	1.66	0.77
34:BA:522:C:N4	34:BA:523:A:N6	2.33	0.77
34:BA:555:C:H2'	34:BA:555:C:O2	1.82	0.77
34:BA:795:C:O5'	34:BA:795:C:H6	1.66	0.77
34:BA:922:G:H5'	40:BH:19:MET:O	1.83	0.77
34:BA:1373:G:H4'	42:BJ:36:LYS:HZ3	1.46	0.77
34:BA:1488:G:H2'	34:BA:1489:G:H8	1.49	0.77
37:BE:16:HIS:CD2	37:BE:214:ILE:HD11	2.19	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:56:ARG:HH11	37:BE:56:ARG:CB	1.97	0.77
40:BH:95:ALA:CB	40:BH:96:PRO:CD	2.60	0.77
44:BL:55:ALA:HB3	44:BL:58:ARG:CZ	2.13	0.77
46:BN:111:ASP:OD2	46:BN:113:PRO:CD	2.31	0.77
52:BT:40:LYS:HE2	52:BT:42:TYR:HE1	1.49	0.77
53:BU:59:SER:N	53:BU:62:GLU:HB2	1.99	0.77
2:AA:63:U:H3'	2:AA:63:U:H6	1.47	0.77
2:AA:133:C:H2'	2:AA:134:C:H6	1.50	0.77
2:AA:250:G:H2'	2:AA:250:G:N3	1.99	0.77
2:AA:270(Z):U:H4'	2:AA:270(Z):U:OP1	1.83	0.77
2:AA:461:C:N4	2:AA:469:G:H21	1.83	0.77
2:AA:701:G:N1	2:AA:731:C:N4	1.96	0.77
2:AA:1158:C:H4'	23:AX:32:GLN:OE1	1.83	0.77
2:AA:1238:G:C2	2:AA:1239:G:H1'	2.20	0.77
2:AA:1625:C:O2'	2:AA:1626:G:H5'	1.84	0.77
2:AA:1883:G:C2	2:AA:1884:A:H2	2.02	0.77
2:AA:2021:C:OP2	29:A5:12:SER:CB	2.31	0.77
2:AA:2872:G:C2	2:AA:2873:A:N6	2.52	0.77
4:AD:67:LYS:N	4:AD:67:LYS:CD	2.45	0.77
5:AE:271:ILE:HG12	5:AE:294:THR:CA	2.15	0.77
5:AE:317:PRO:O	5:AE:320:GLN:CG	2.32	0.77
6:AF:193:LEU:HB2	6:AF:233:THR:CB	2.13	0.77
7:AG:40:ILE:HG22	7:AG:44:ILE:HD11	1.67	0.77
8:AH:36:PHE:CZ	8:AH:70:LEU:HD22	2.19	0.77
10:AK:21:VAL:O	10:AK:26:ALA:HB2	1.84	0.77
13:AN:24:VAL:HG11	13:AN:32:TYR:H	1.48	0.77
18:AS:76:VAL:HG22	18:AS:102:HIS:O	1.84	0.77
19:AT:3:ASP:CG	19:AT:4:VAL:N	2.40	0.77
19:AT:56:ASN:O	19:AT:57:THR:HG23	1.85	0.77
21:AV:19:ILE:N	21:AV:36:ARG:HG3	1.97	0.77
21:AV:53:ASP:CA	21:AV:65:LEU:HD21	2.15	0.77
21:AV:67:LYS:HD3	21:AV:93:GLU:OE2	1.84	0.77
22:AW:7:GLU:CD	22:AW:8:ILE:HG13	2.10	0.77
25:A1:92:ARG:C	25:A1:95:LEU:HG	2.08	0.77
28:A4:20:VAL:O	28:A4:20:VAL:HG12	1.84	0.77
29:A5:57:VAL:CG1	29:A5:58:LEU:N	2.48	0.77
32:A8:23:MET:SD	32:A8:47:GLY:C	2.67	0.77
34:BA:501:C:H1'	34:BA:549:C:H1'	1.66	0.77
34:BA:750:G:N3	50:BR:23:GLY:O	2.18	0.77
34:BA:1203:C:O2'	34:BA:1204:A:H5'	1.84	0.77
34:BA:1320:C:N4	54:BV:36:ARG:NH1	2.27	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:9:A:HO2'	35:BB:45:G:HO2'	1.28	0.77
35:BB:33:U:O4	35:BB:35:A:OP1	2.02	0.77
39:BG:8:VAL:HG13	39:BG:11:LEU:HD12	1.62	0.77
40:BH:43:LEU:HD23	40:BH:44:GLY:N	1.99	0.77
42:BJ:86:GLN:CG	42:BJ:148:ASN:HD22	1.98	0.77
44:BL:67:GLY:O	44:BL:73:GLN:NE2	2.17	0.77
48:BP:4:ILE:C	48:BP:6:GLY:H	1.92	0.77
53:BU:66:LEU:HD12	53:BU:67:ALA:CA	2.15	0.77
2:AA:481:G:H1	2:AA:509:C:H42	1.33	0.77
2:AA:530:G:H1'	2:AA:532:A:P	2.25	0.77
2:AA:880:G:H2'	2:AA:881:G:C5'	2.14	0.77
2:AA:962:G:H2'	2:AA:963:U:H6	1.45	0.77
2:AA:1058:G:O2'	9:AI:3:ILE:N	2.18	0.77
2:AA:1086:A:OP1	2:AA:1104:C:H4'	1.85	0.77
2:AA:1304:C:N4	2:AA:1624:G:H1	1.80	0.77
2:AA:1343:G:H3'	2:AA:1344:G:H5''	1.66	0.77
2:AA:1563:G:H2'	2:AA:1564:C:C6	2.17	0.77
2:AA:1591:G:H2'	2:AA:1592:C:H6	1.41	0.77
2:AA:1975:G:O2'	2:AA:1976:U:C5'	2.32	0.77
2:AA:2343:C:O2	2:AA:2344:U:C6	2.37	0.77
2:AA:2488:A:O2'	2:AA:2489:G:H5'	1.84	0.77
2:AA:2872:G:N2	2:AA:2873:A:N6	2.32	0.77
6:AF:35:VAL:O	6:AF:39:GLN:NE2	2.17	0.77
8:AH:9:GLU:HA	8:AH:48:VAL:CG1	2.05	0.77
9:AJ:115:LYS:CE	9:AJ:127:LEU:HB3	2.15	0.77
10:AK:82:LYS:O	10:AK:89:LEU:HD23	1.85	0.77
10:AK:102:LEU:HD12	10:AK:103:GLN:N	2.00	0.77
11:AL:100:VAL:HG12	11:AL:101:THR:N	1.99	0.77
12:AM:73:LYS:O	12:AM:140:GLY:C	2.28	0.77
26:A2:5:ILE:HD12	26:A2:5:ILE:N	1.99	0.77
34:BA:29:G:H5'	34:BA:296:U:OP1	1.83	0.77
34:BA:295:C:O2'	34:BA:296:U:H5'	1.84	0.77
34:BA:297:G:N2	34:BA:299:G:H3'	1.98	0.77
34:BA:300:A:H2'	34:BA:301:G:C5'	2.15	0.77
34:BA:453:A:H62	34:BA:480:U:H3	1.30	0.77
34:BA:650:G:O2'	34:BA:651:C:H5'	1.85	0.77
34:BA:974:A:C1'	49:BQ:31:ARG:HH21	1.90	0.77
34:BA:979:C:O2	49:BQ:19:ARG:NE	2.16	0.77
34:BA:981:U:H2'	34:BA:982:U:C5	2.19	0.77
34:BA:1004:A:H3'	34:BA:1025:U:C4	2.19	0.77
34:BA:1060:C:H2'	34:BA:1061:G:H8	1.49	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1244:C:N4	34:BA:1293:G:H1	1.81	0.77
34:BA:1274:G:N2	34:BA:1275:A:H62	1.82	0.77
34:BA:1502:A:H5''	34:BA:1503:A:OP2	1.83	0.77
39:BG:126:ILE:O	39:BG:132:ARG:HB3	1.84	0.77
42:BJ:47:CYS:HA	42:BJ:50:ILE:HD12	1.67	0.77
44:BL:6:GLY:HA3	44:BL:80:GLY:O	1.84	0.77
45:BM:84:GLN:HA	45:BM:88:LEU:CD1	2.06	0.77
52:BT:18:THR:HG23	52:BT:69:LYS:NZ	2.00	0.77
2:AA:83:G:O6	2:AA:102:G:H2'	1.83	0.77
2:AA:531:C:N3	2:AA:532:A:O2'	2.17	0.77
2:AA:647:G:H5'	2:AA:2352:A:H5''	1.67	0.77
2:AA:918:A:H5'	2:AA:919:G:C8	2.18	0.77
2:AA:976:C:H5'	2:AA:1156:A:H61	1.49	0.77
2:AA:142(A):A:C6	2:AA:1143:A:C5	2.73	0.77
2:AA:1221:C:C2	2:AA:1229:G:N2	2.52	0.77
2:AA:1492:G:N2	2:AA:1499:C:C4	2.53	0.77
2:AA:1835:G:H1	2:AA:1905:C:H42	1.32	0.77
2:AA:1878:G:O2'	2:AA:1879:C:H5'	1.84	0.77
2:AA:1934:C:C4'	2:AA:1974:C:H4'	2.15	0.77
2:AA:1936:A:H5''	2:AA:1937:A:H5'	1.67	0.77
2:AA:1938:A:O2'	2:AA:1939:U:OP1	2.01	0.77
2:AA:1992:G:O6	2:AA:1997:G:N3	2.17	0.77
2:AA:2013:A:H4'	18:AS:96:ILE:HG22	1.66	0.77
2:AA:2044:C:C6	2:AA:2625:G:N2	2.52	0.77
2:AA:2371:G:H5'	30:A6:46:LYS:CD	2.13	0.77
2:AA:2378:A:H1'	16:AQ:26:LEU:CD2	2.14	0.77
2:AA:2468:G:N2	2:AA:2481:G:C2'	2.47	0.77
2:AA:2640:G:O2'	12:AM:70:PHE:HE2	1.66	0.77
2:AA:2654:A:H5''	2:AA:2655:G:OP1	1.85	0.77
2:AA:2687:U:C2	2:AA:2688:U:H6	2.02	0.77
3:AC:131:LEU:HD13	3:AC:136:LEU:O	1.85	0.77
4:AD:213:LYS:O	4:AD:214:MET:HB2	1.82	0.77
10:AK:76:THR:HG22	10:AK:142:LYS:CE	2.14	0.77
11:AL:11:LEU:HD11	11:AL:28:LEU:HG	1.66	0.77
21:AV:148:THR:HA	21:AV:168:VAL:CG2	2.14	0.77
23:AX:39:ASP:HA	23:AX:44:ARG:NH2	2.00	0.77
34:BA:50:A:N6	34:BA:361:G:C4'	2.48	0.77
34:BA:530:G:N7	35:BB:35:A:O4'	2.18	0.77
34:BA:888:G:N2	34:BA:909:A:H62	1.79	0.77
34:BA:1253:G:C6	34:BA:1285:A:N6	2.53	0.77
34:BA:1288:A:H2'	34:BA:1289:A:H8	1.47	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B1:19:G:O2'	36:B1:20:A:H5'	1.85	0.77
39:BG:105:VAL:HG21	39:BG:121:VAL:HG22	1.65	0.77
41:BI:42:GLU:HG3	41:BI:61:LEU:HD21	1.65	0.77
41:BI:80:ARG:HG2	41:BI:80:ARG:HH11	1.48	0.77
45:BM:4:ILE:HG23	45:BM:99:LYS:O	1.84	0.77
49:BQ:34:TYR:CD1	49:BQ:34:TYR:N	2.49	0.77
50:BR:74:ASP:OD1	50:BR:76:GLU:CB	2.32	0.77
52:BT:88:TYR:CA	52:BT:91:ARG:HH21	1.97	0.77
55:BW:26:ASN:ND2	55:BW:26:ASN:N	2.30	0.77
1:AB:28:C:OP1	16:AQ:44:ARG:NH2	2.17	0.77
1:AB:80:U:H4'	2:AA:918:A:H8	1.50	0.77
2:AA:607:U:O4	2:AA:621:A:C6	2.37	0.77
2:AA:608:A:O2'	2:AA:609:A:H5'	1.84	0.77
2:AA:668:G:C4	2:AA:670:A:N7	2.52	0.77
2:AA:740:U:O2'	2:AA:741:G:O5'	2.02	0.77
2:AA:1967:C:N4	2:AA:1968:G:N2	2.33	0.77
2:AA:2579:C:N4	2:AA:2580:U:C5	2.53	0.77
3:AC:74:VAL:HG11	3:AC:153:ILE:HG23	1.66	0.77
3:AC:210:ARG:HG2	3:AC:210:ARG:NH1	1.98	0.77
4:AD:74:PRO:HA	4:AD:116:MET:HE2	1.66	0.77
6:AF:51:TYR:O	6:AF:55:ARG:CB	2.33	0.77
6:AF:193:LEU:HD11	6:AF:231:ARG:CB	2.15	0.77
9:AJ:102:ILE:HD13	9:AJ:118:LEU:CD2	2.15	0.77
10:AK:5:PHE:CB	10:AK:17:GLU:O	2.32	0.77
11:AL:52:MET:HA	11:AL:81:LYS:HE3	1.67	0.77
16:AQ:90:LEU:HA	16:AQ:93:GLN:CD	2.09	0.77
18:AS:13:SER:O	18:AS:14:PRO:C	2.27	0.77
19:AT:22:ASN:O	19:AT:23:LYS:O	2.02	0.77
20:AU:43:ASN:O	20:AU:45:GLY:N	2.17	0.77
20:AU:52:ARG:HD2	20:AU:95:ASN:OD1	1.85	0.77
24:A0:67:LEU:CD2	24:A0:72:ASP:H	1.97	0.77
33:A9:20:HIS:C	33:A9:22:ARG:H	1.91	0.77
34:BA:1243:C:H42	34:BA:1294:G:H1	1.29	0.77
35:BB:30:G:H1	35:BB:40:C:H42	1.33	0.77
35:BB:33:U:C5	35:BB:35:A:OP2	2.36	0.77
35:BB:74:C:H2'	35:BB:75:C:C5'	2.15	0.77
37:BE:18:GLY:HA2	37:BE:42:ILE:H	1.50	0.77
38:BF:12:LEU:HD22	38:BF:17:ASP:CA	2.14	0.77
40:BH:12:LEU:CD1	40:BH:31:LEU:HB3	2.15	0.77
41:BI:11:ASN:HD21	41:BI:13:ASN:HB2	1.49	0.77
42:BJ:146:GLU:HG2	42:BJ:149:ARG:HH21	1.48	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:36:LEU:C	43:BK:39:LEU:HB2	2.09	0.77
43:BK:40:ALA:HB2	43:BK:45:ILE:HG12	1.66	0.77
44:BL:107:ARG:O	44:BL:108:VAL:HG13	1.85	0.77
45:BM:82:ILE:O	45:BM:86:MET:CB	2.32	0.77
46:BN:54:ARG:O	46:BN:57:THR:HG22	1.85	0.77
50:BR:29:VAL:HG11	50:BR:81:LEU:HD21	1.65	0.77
2:AA:131:G:N1	2:AA:149:A:N6	2.33	0.77
2:AA:294:A:H2'	2:AA:295:G:C5'	2.15	0.77
2:AA:365:C:C4	2:AA:366:C:H5	2.02	0.77
2:AA:465:G:H21	2:AA:683:C:H2'	1.48	0.77
2:AA:784:A:C6	2:AA:792:G:H1'	2.20	0.77
2:AA:826:U:O2	2:AA:832:G:N2	2.18	0.77
2:AA:971:C:H42	2:AA:972:G:H21	1.31	0.77
2:AA:1261:C:OP2	2:AA:1261:C:H3'	1.85	0.77
2:AA:1430:C:H2'	2:AA:1431:U:C6	2.19	0.77
2:AA:1494:A:H2'	2:AA:1494:A:N3	1.97	0.77
2:AA:2371:G:HO2'	30:A6:47:HIS:HE2	1.30	0.77
2:AA:2471:C:H2'	2:AA:2472:G:O5'	1.85	0.77
2:AA:2575:C:H5''	2:AA:2576:G:OP2	1.85	0.77
4:AD:108:ASN:O	4:AD:110:LYS:N	2.17	0.77
4:AD:183:ILE:CG2	4:AD:184:LEU:H	1.98	0.77
5:AE:76:PRO:HB2	5:AE:77:PRO:CD	2.09	0.77
6:AF:91:PRO:CB	6:AF:92:PRO:HD2	2.12	0.77
6:AF:211:ASP:O	6:AF:212:VAL:HG23	1.85	0.77
7:AG:49:PRO:CB	7:AG:72:LYS:O	2.32	0.77
8:AH:97:LYS:HB2	8:AH:124:VAL:CG1	2.14	0.77
10:AK:115:ILE:HG12	10:AK:131:VAL:CG1	2.15	0.77
15:AP:36:ASN:HD22	15:AP:41:THR:H	1.33	0.77
17:AR:50:GLU:HG3	17:AR:55:ALA:CB	2.15	0.77
26:A2:51:ALA:HA	26:A2:54:TYR:HD1	1.48	0.77
31:A7:27:GLY:C	31:A7:31:LEU:HG	2.08	0.77
31:A7:34:ARG:O	31:A7:35:ARG:C	2.26	0.77
34:BA:679:C:H6	34:BA:679:C:O5'	1.68	0.77
34:BA:745:C:H5''	34:BA:851:G:H1'	1.65	0.77
34:BA:1064:G:H1'	34:BA:1066:C:C4	2.20	0.77
34:BA:1394:A:H4'	34:BA:1395:C:OP1	1.84	0.77
40:BH:59:GLY:CA	40:BH:63:ARG:HH21	1.98	0.77
40:BH:71:LEU:HD21	40:BH:115:VAL:HG13	1.66	0.77
41:BI:4:TYR:HD2	41:BI:4:TYR:N	1.82	0.77
46:BN:53:SER:OG	46:BN:54:ARG:N	2.18	0.77
46:BN:111:ASP:O	46:BN:112:THR:C	2.28	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:39:VAL:CB	47:BO:57:LYS:HD2	2.15	0.77
47:BO:48:PRO:O	47:BO:49:ASN:O	2.02	0.77
49:BQ:14:PRO:C	49:BQ:16:PHE:N	2.39	0.77
1:AB:87:G:OP2	1:AB:87:G:H8	1.68	0.77
2:AA:116:C:H2'	2:AA:117:G:C8	2.19	0.77
2:AA:290:G:O6	2:AA:350:U:C4	2.38	0.77
2:AA:531:C:H2'	2:AA:531:C:O2	1.83	0.77
2:AA:607:U:H3	2:AA:621:A:N6	1.69	0.77
2:AA:729:G:H1'	2:AA:763:G:O3'	1.83	0.77
2:AA:864:G:H2'	2:AA:865:C:C1'	2.14	0.77
2:AA:1024:G:C5	2:AA:1025:G:N7	2.52	0.77
2:AA:142(A):A:H4'	12:AM:21:ARG:HH22	1.44	0.77
2:AA:1162:G:H2'	2:AA:1163:G:H8	1.49	0.77
2:AA:1163:G:C2	2:AA:1164:G:C8	2.72	0.77
2:AA:1216:G:N2	2:AA:1234:U:H1'	1.99	0.77
2:AA:1602:U:H6	2:AA:1602:U:H3'	1.50	0.77
2:AA:2093:G:C5	2:AA:2225:A:N7	2.53	0.77
2:AA:2320:A:H62	16:AQ:9:PRO:HG3	1.50	0.77
2:AA:2466:C:OP1	33:A9:6:SER:HB3	1.85	0.77
2:AA:2892:A:H2'	2:AA:2893:G:C8	2.20	0.77
3:AC:59:ARG:HB2	3:AC:164:ARG:HB2	1.67	0.77
4:AD:143:ILE:O	4:AD:152:GLN:CB	2.32	0.77
8:AH:51:VAL:HG22	8:AH:68:ARG:HG2	1.66	0.77
10:AK:124:LEU:HD11	10:AK:145:VAL:HG12	1.67	0.77
16:AQ:74:PRO:HG3	16:AQ:114:LYS:HE2	1.67	0.77
24:A0:87:TYR:OH	24:A0:116:LEU:HB2	1.85	0.77
26:A2:3:ALA:O	26:A2:12:TYR:CE2	2.37	0.77
26:A2:67:LYS:HZ2	26:A2:94:LYS:CD	1.98	0.77
29:A5:15:LYS:O	29:A5:18:MET:N	2.18	0.77
33:A9:14:CYS:SG	33:A9:32:HIS:CD2	2.77	0.77
34:BA:50:A:O2'	34:BA:52:G:C8	2.37	0.77
34:BA:113:G:H2'	34:BA:114:U:H6	1.50	0.77
34:BA:590:C:C5'	43:BK:30:ARG:HD2	2.11	0.77
34:BA:706:A:H4'	46:BN:29:ILE:HD11	1.66	0.77
34:BA:735:C:C1'	53:BU:75:ILE:HD11	2.15	0.77
34:BA:1279:A:O2'	34:BA:1282:C:N4	2.18	0.77
34:BA:1405:G:H1'	34:BA:1519:A:H5'	1.65	0.77
35:BB:1:G:C6	35:BB:73:A:C2	2.73	0.77
37:BE:15:VAL:HG22	37:BE:209:ARG:HH11	1.48	0.77
37:BE:75:LYS:HD3	37:BE:78:GLN:HB3	1.67	0.77
37:BE:155:LEU:CB	37:BE:159:PRO:HG3	2.14	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:164:VAL:O	37:BE:186:ALA:HB1	1.85	0.77
37:BE:170:GLU:OE2	37:BE:172:ILE:HG13	1.84	0.77
38:BF:8:ILE:CG1	38:BF:16:ARG:HG2	2.14	0.77
43:BK:35:ILE:CD1	43:BK:134:ILE:HD13	2.13	0.77
43:BK:114:THR:HG21	43:BK:129:VAL:HG13	1.67	0.77
45:BM:23:ILE:HA	45:BM:85:LEU:CD2	2.15	0.77
46:BN:31:THR:CG2	46:BN:42:TRP:HB3	2.15	0.77
53:BU:53:ARG:CD	53:BU:58:LEU:O	2.32	0.77
2:AA:5:A:H5'	5:AE:94:ARG:NH2	2.00	0.77
2:AA:358:U:H3'	2:AA:359:A:H5'	1.67	0.77
2:AA:529:A:N6	2:AA:2042:A:C2	2.53	0.77
2:AA:535:C:C5'	25:A1:53:LYS:HE2	2.15	0.77
2:AA:969:U:O2'	2:AA:970:C:H5'	1.85	0.77
2:AA:1119:C:O2	2:AA:1119:C:H2'	1.85	0.77
2:AA:1181:C:C2'	2:AA:1182:A:H8	1.97	0.77
2:AA:1972:A:H2'	2:AA:1973:G:C8	2.18	0.77
2:AA:2468:G:O2'	2:AA:2469:A:C8	2.38	0.77
2:AA:2575:C:OP1	5:AE:241:TRP:NE1	2.18	0.77
2:AA:2751:G:H2'	2:AA:2751:G:N3	1.99	0.77
4:AD:144:GLU:O	4:AD:183:ILE:HD13	1.85	0.77
4:AD:185:GLY:C	4:AD:187:CYS:H	1.92	0.77
9:AJ:35:ALA:CB	9:AJ:36:PRO:HD3	2.14	0.77
11:AL:41:ARG:O	11:AL:44:ALA:HB3	1.85	0.77
15:AP:82:LYS:NZ	15:AP:84:ARG:CZ	2.48	0.77
21:AV:5:ALA:HB3	21:AV:13:LYS:NZ	2.00	0.77
24:A0:20:LEU:HD12	24:A0:21:TYR:HD2	1.48	0.77
26:A2:54:TYR:O	26:A2:56:VAL:HB	1.85	0.77
32:A8:12:ARG:CD	32:A8:13:ARG:HD2	2.15	0.77
34:BA:176:C:O2'	34:BA:177:C:H5'	1.84	0.77
34:BA:245:C:N3	34:BA:284:G:C6	2.53	0.77
34:BA:335:C:H4'	34:BA:1434:A:H4'	1.67	0.77
34:BA:523:A:H61	47:BO:53:ARG:HH21	1.31	0.77
34:BA:540:G:C2	34:BA:541:G:H1'	2.20	0.77
34:BA:601:C:H2'	34:BA:602:A:H8	1.50	0.77
34:BA:708:C:C4'	46:BN:37:GLY:HA3	2.13	0.77
34:BA:1139:G:N2	34:BA:1143:G:H1	1.83	0.77
34:BA:1349:A:OP1	44:BL:120:ARG:HB2	1.83	0.77
34:BA:1373:G:H5''	42:BJ:36:LYS:HD2	1.66	0.77
35:BB:15:G:O5'	35:BB:15:G:H8	1.67	0.77
38:BF:84:ILE:HG13	38:BF:101:LEU:HD13	1.67	0.77
42:BJ:135:VAL:O	42:BJ:138:LYS:HB3	1.84	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:6:ILE:CD1	43:BK:85:ARG:NH1	2.48	0.77
43:BK:123:GLU:O	43:BK:127:LEU:HB2	1.85	0.77
43:BK:126:LYS:NZ	43:BK:127:LEU:HB2	1.99	0.77
49:BQ:14:PRO:O	49:BQ:16:PHE:N	2.18	0.77
50:BR:39:LEU:HD23	50:BR:39:LEU:C	2.10	0.77
50:BR:78:TYR:O	50:BR:82:ILE:HG13	1.84	0.77
2:AA:356:G:H2'	2:AA:357:A:N9	1.98	0.76
2:AA:452:G:N2	2:AA:457:A:C2	2.53	0.76
2:AA:573:G:H22	2:AA:2029:G:H21	1.32	0.76
2:AA:607:U:O4	2:AA:621:A:C2	2.38	0.76
2:AA:616:A:OP2	6:AF:42:ARG:CZ	2.34	0.76
2:AA:957:A:H2	2:AA:2459:A:H5'	1.51	0.76
2:AA:1163:G:H5'	26:A2:23:GLU:OE2	1.85	0.76
2:AA:1471:A:H62	2:AA:1519:G:H22	1.31	0.76
2:AA:1511:A:C3'	2:AA:1512:G:H5''	2.15	0.76
2:AA:1819:A:C1'	2:AA:1821:A:C5	2.67	0.76
2:AA:1854:A:H2'	2:AA:1855:G:H5'	1.65	0.76
2:AA:1959:G:H1'	34:BA:1418:A:N3	2.00	0.76
2:AA:2176:A:H2'	2:AA:2177:C:H6	1.50	0.76
2:AA:2246:G:C2	2:AA:2247:A:C5	2.73	0.76
2:AA:2602:A:O2'	2:AA:2603:G:OP2	2.03	0.76
2:AA:2679:A:H5''	5:AE:261:ARG:CZ	2.15	0.76
2:AA:2679:A:H5''	5:AE:261:ARG:NE	1.99	0.76
3:AC:18:LYS:HE3	3:AC:20:TYR:HD2	1.50	0.76
9:AJ:83:LEU:HD13	9:AJ:91:LEU:HD12	1.66	0.76
10:AK:4:ILE:HD11	10:AK:39:ALA:CA	2.14	0.76
12:AM:103:VAL:C	12:AM:104:TYR:CD1	2.63	0.76
13:AN:2:ILE:HB	13:AN:33:ALA:HB3	1.65	0.76
13:AN:86:ILE:C	13:AN:87:ILE:HD12	2.09	0.76
13:AN:112:MET:CA	13:AN:115:ILE:HD12	2.16	0.76
14:AO:122:ALA:HB3	14:AO:125:PHE:HZ	1.47	0.76
17:AR:13:ILE:HG13	17:AR:33:SER:CB	2.15	0.76
19:AT:5:ILE:HG22	19:AT:6:LYS:N	1.98	0.76
21:AV:49:THR:CG2	21:AV:97:PRO:HD3	2.14	0.76
24:A0:38:VAL:CB	24:A0:39:PRO:HD3	2.15	0.76
27:A3:65:GLY:HA2	27:A3:66:LYS:HZ2	1.48	0.76
34:BA:417:C:H42	34:BA:426:G:H1	0.78	0.76
34:BA:876:G:H1'	43:BK:11:THR:HG21	1.67	0.76
34:BA:1124:G:H2'	34:BA:1126:U:O4	1.85	0.76
34:BA:1307:U:H5'	48:BP:109:THR:HG21	1.67	0.76
35:BB:41:U:C4'	35:BB:41:U:H6	1.98	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:62:A:O2'	35:BB:63:C:C5'	2.32	0.76
35:BC:18:G:C2	35:BC:58:A:C4	2.73	0.76
37:BE:20:GLU:O	37:BE:39:ILE:HG23	1.85	0.76
37:BE:124:SER:HB2	37:BE:125:PRO:HD2	1.66	0.76
38:BF:38:ARG:CB	38:BF:94:LEU:HD21	2.15	0.76
38:BF:182:ILE:HA	38:BF:204:LEU:HG	1.67	0.76
41:BI:4:TYR:N	41:BI:4:TYR:CD2	2.53	0.76
43:BK:87:SER:CB	43:BK:92:ARG:HA	2.13	0.76
43:BK:96:GLY:O	43:BK:99:GLU:HG3	1.84	0.76
46:BN:54:ARG:O	46:BN:56:GLY:N	2.18	0.76
47:BO:60:LEU:HD22	47:BO:60:LEU:N	1.98	0.76
51:BS:32:TYR:HD1	51:BS:32:TYR:H	1.32	0.76
52:BT:75:ARG:HH12	52:BT:77:VAL:HA	1.48	0.76
1:AB:71:C:O2'	1:AB:72:G:H5'	1.85	0.76
1:AB:90:C:O2'	1:AB:91:C:H5'	1.85	0.76
1:AB:116:G:H2'	1:AB:117:G:O4'	1.85	0.76
2:AA:126:A:H4'	31:A7:19:ARG:HH21	1.50	0.76
2:AA:230:U:H2'	2:AA:231:C:C6	2.20	0.76
2:AA:252:G:N2	2:AA:253:C:C2	2.54	0.76
2:AA:357:A:H3'	2:AA:358:U:H5''	1.66	0.76
2:AA:585:G:O2'	2:AA:586:A:C8	2.37	0.76
2:AA:855:G:N2	2:AA:856:C:H1'	1.99	0.76
2:AA:861:A:C5	2:AA:862:G:C8	2.73	0.76
2:AA:866:A:H2'	2:AA:867:C:O5'	1.84	0.76
2:AA:873:G:H4'	15:AP:32:LYS:CB	2.15	0.76
2:AA:974(A):C:OP2	2:AA:1186:G:N2	2.18	0.76
2:AA:1084:A:P	9:AI:35:ALA:O	2.42	0.76
2:AA:1141:U:H2'	2:AA:1142:U:OP2	1.85	0.76
2:AA:1419:A:H4'	2:AA:1419:A:OP2	1.85	0.76
2:AA:1467:C:N4	2:AA:1524:G:O6	2.17	0.76
2:AA:1800:C:C6	2:AA:1800:C:C3'	2.63	0.76
2:AA:1855:G:H8	2:AA:1855:G:O5'	1.68	0.76
2:AA:1882:C:C2'	2:AA:1883:G:H5'	2.15	0.76
2:AA:1908:C:H42	2:AA:1922:G:H1	1.32	0.76
2:AA:2068:U:O2	2:AA:2430:A:N1	2.18	0.76
2:AA:2097:C:O2'	2:AA:2098:U:H5'	1.83	0.76
2:AA:2101:G:O2'	2:AA:2102:U:H5'	1.85	0.76
2:AA:2132:U:H4'	3:AC:5:LYS:CG	2.15	0.76
2:AA:2599:G:C2'	2:AA:2600:A:O4'	2.33	0.76
2:AA:2864:G:H2'	2:AA:2865:U:H6	1.49	0.76
3:AC:58:VAL:CG2	3:AC:201:PRO:HD3	2.15	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:99:ILE:O	3:AC:103:ILE:HG13	1.84	0.76
9:AI:23:LYS:HD2	9:AJ:47:ALA:N	1.99	0.76
9:AI:63:LEU:HG	9:AI:102:ILE:HB	1.67	0.76
9:AI:91:LEU:HD23	9:AI:94:LYS:HD2	1.65	0.76
9:AJ:10:ILE:O	9:AJ:18:LEU:HD21	1.85	0.76
13:AN:1:MET:HB3	13:AN:67:ARG:CD	2.15	0.76
13:AN:66:LYS:HB3	13:AN:79:PHE:O	1.85	0.76
13:AN:68:GLY:HA3	13:AN:78:ARG:HE	0.62	0.76
15:AP:75:SER:O	15:AP:132:VAL:HG21	1.85	0.76
16:AQ:120:GLU:HA	16:AQ:123:ILE:HD12	1.66	0.76
18:AS:36:LEU:HB3	18:AS:48:ALA:HB2	1.66	0.76
18:AS:88:ARG:C	18:AS:90:ARG:N	2.37	0.76
20:AU:27:LEU:HD22	20:AU:31:LEU:CD1	2.15	0.76
24:A0:50:HIS:CE1	24:A0:54:LEU:HD11	2.20	0.76
25:A1:8:ILE:CA	25:A1:11:ARG:HD2	2.14	0.76
25:A1:88:ILE:O	25:A1:89:ASP:OD1	2.02	0.76
26:A2:14:VAL:HG12	26:A2:15:SER:N	2.00	0.76
27:A3:36:ILE:N	27:A3:68:VAL:HG22	2.00	0.76
31:A7:21:ARG:HH22	31:A7:42:LEU:HB3	1.50	0.76
34:BA:272:C:O2'	34:BA:273:A:H5'	1.85	0.76
34:BA:275:G:O2'	34:BA:276:G:H5'	1.85	0.76
34:BA:389:A:H2'	34:BA:390:C:C5'	2.14	0.76
34:BA:445:G:H1	34:BA:489:C:N4	1.83	0.76
34:BA:751:U:O2'	34:BA:752:G:H5'	1.85	0.76
34:BA:940:C:H2'	34:BA:941:G:H8	1.49	0.76
34:BA:1209:C:C2'	34:BA:1210:C:H5'	2.14	0.76
35:BB:14:A:C2	35:BB:22:G:N3	2.54	0.76
36:B1:14:U:H5''	36:B1:38:C:H42	1.50	0.76
36:B1:25:U:H3	36:B1:28:U:H5	1.33	0.76
37:BE:130:ARG:CD	37:BE:131:PRO:HD2	2.15	0.76
41:BI:14:LEU:HD13	41:BI:18:GLN:HG2	1.67	0.76
42:BJ:88:PRO:CG	42:BJ:152:ALA:HA	2.16	0.76
43:BK:46:LYS:HG3	43:BK:64:LYS:HG3	1.67	0.76
44:BL:27:THR:HB	44:BL:62:TYR:HD1	1.50	0.76
48:BP:48:LEU:CD1	48:BP:53:VAL:HG22	2.14	0.76
51:BS:20:VAL:HG11	51:BS:32:TYR:HD2	1.50	0.76
2:AA:135:G:H1'	2:AA:145:G:H22	1.51	0.76
2:AA:207:A:C2	2:AA:208:C:C1'	2.68	0.76
2:AA:679:C:H42	2:AA:798:G:H1	1.31	0.76
2:AA:750:A:C2'	2:AA:751:A:H5''	2.15	0.76
2:AA:774:A:O2'	2:AA:775:G:H8	1.68	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:894:C:H2'	2:AA:895:U:C6	2.19	0.76
2:AA:975:G:N1	2:AA:976:C:H6	1.83	0.76
2:AA:1083:U:O2	9:AI:37:VAL:HG22	1.85	0.76
2:AA:1645:G:H5''	2:AA:1646:C:H5'	1.66	0.76
2:AA:1799:G:C2	2:AA:1819:A:N7	2.53	0.76
2:AA:1915:U:H2'	2:AA:1916:A:N7	2.00	0.76
2:AA:2132:U:N3	2:AA:2134:A:OP2	2.18	0.76
2:AA:2136:C:C5	2:AA:2154:G:N1	2.51	0.76
2:AA:2278:A:O2'	15:AP:19:TYR:CD2	2.38	0.76
2:AA:2320:A:H5'	2:AA:2321:G:N7	1.99	0.76
2:AA:2470:G:O6	2:AA:2481:G:C2	2.38	0.76
2:AA:2504:U:C2'	2:AA:2505:G:H5'	2.15	0.76
2:AA:2649:U:O2'	2:AA:2650:U:C5'	2.34	0.76
4:AD:79:THR:CG2	4:AD:111:VAL:HG13	2.15	0.76
4:AD:131:LEU:HD11	4:AD:187:CYS:CB	2.13	0.76
4:AD:144:GLU:HG2	4:AD:152:GLN:HE22	1.50	0.76
4:AD:184:LEU:C	4:AD:187:CYS:SG	2.68	0.76
6:AF:158:GLU:N	6:AF:158:GLU:OE2	2.18	0.76
8:AH:98:GLN:OE1	8:AH:103:VAL:HG21	1.85	0.76
9:AI:22:VAL:HG12	9:AI:26:GLU:OE1	1.86	0.76
12:AM:54:VAL:HA	12:AM:135:ILE:CG2	2.14	0.76
13:AN:45:ASP:HA	13:AN:54:LYS:HG3	1.66	0.76
16:AQ:122:ALA:CB	16:AQ:127:LEU:HD13	2.15	0.76
21:AV:37:LYS:O	21:AV:41:ARG:CZ	2.34	0.76
25:A1:43:ALA:HA	25:A1:46:GLU:OE2	1.85	0.76
25:A1:59:ARG:HH11	25:A1:59:ARG:HB3	1.48	0.76
27:A3:27:GLY:HA2	27:A3:60:PHE:CE2	2.20	0.76
32:A8:12:ARG:HH11	32:A8:13:ARG:HH11	1.32	0.76
32:A8:33:ASN:O	32:A8:34:THR:OG1	2.03	0.76
34:BA:940:C:H2'	34:BA:941:G:C8	2.20	0.76
34:BA:1373:G:H4'	42:BJ:36:LYS:HZ2	1.49	0.76
35:BB:37:G:C4	35:BB:38:A:N7	2.53	0.76
35:BC:74:C:H3'	35:BC:75:C:H5''	1.67	0.76
41:BI:79:LEU:O	41:BI:81:ILE:N	2.19	0.76
41:BI:79:LEU:O	41:BI:85:VAL:HG21	1.84	0.76
41:BI:96:PRO:HA	53:BU:32:ARG:CD	2.15	0.76
43:BK:9:MET:O	43:BK:10:LEU:C	2.24	0.76
43:BK:38:ILE:HA	43:BK:41:ARG:HB3	1.66	0.76
54:BV:44:MET:O	54:BV:62:ILE:HG21	1.84	0.76
2:AA:47:C:N3	2:AA:179:G:C6	2.54	0.76
2:AA:199:A:C6	2:AA:2434:A:C2	2.74	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:383:U:O2'	2:AA:384:U:H5	1.64	0.76
2:AA:680:G:H2'	2:AA:681:G:H8	1.49	0.76
2:AA:751:A:OP2	18:AS:90:ARG:HB3	1.84	0.76
2:AA:842:G:H2'	2:AA:843:G:C8	2.20	0.76
2:AA:900:A:H2'	2:AA:901:A:O4'	1.86	0.76
2:AA:978:G:O6	2:AA:984:A:OP2	2.03	0.76
2:AA:1029:A:O2'	2:AA:1030:G:H5'	1.85	0.76
2:AA:1252:G:O2'	25:A1:33:ARG:NE	2.19	0.76
2:AA:1743:G:C2'	2:AA:1746:G:H5'	2.15	0.76
2:AA:1778:U:N1	2:AA:1784:A:H2	1.83	0.76
2:AA:1802:A:N3	2:AA:1802:A:H2'	1.99	0.76
2:AA:1917:U:H6	2:AA:1917:U:C3'	1.98	0.76
2:AA:2056:G:N2	2:AA:2057:A:H1'	1.97	0.76
2:AA:2445:G:H2'	2:AA:2446:G:H8	1.48	0.76
2:AA:2595:G:H1'	2:AA:2599:G:H22	1.49	0.76
2:AA:2688:U:O2	2:AA:2688:U:C2'	2.33	0.76
2:AA:2807:G:H3'	2:AA:2891:G:O6	1.86	0.76
3:AC:10:LEU:HD11	3:AC:32:LEU:CA	2.15	0.76
5:AE:201:VAL:HG22	5:AE:311:PHE:CB	2.12	0.76
6:AF:84:VAL:C	6:AF:85:LYS:HD2	2.10	0.76
9:AJ:74:ILE:HD12	11:AL:61:TYR:HD2	1.48	0.76
13:AN:90:ASP:O	13:AN:92:SER:N	2.17	0.76
19:AT:49:VAL:O	19:AT:49:VAL:HG12	1.84	0.76
22:AW:43:PRO:HB3	22:AW:45:ARG:HB3	1.66	0.76
24:A0:28:LEU:HD13	24:A0:28:LEU:C	2.09	0.76
29:A5:11:THR:H	29:A5:16:ARG:HH21	1.32	0.76
34:BA:275:G:H5'	52:BT:14:LYS:CD	2.13	0.76
34:BA:728:A:H8	50:BR:54:ARG:NH1	1.83	0.76
34:BA:824:C:H2'	34:BA:825:G:C8	2.20	0.76
34:BA:948:C:P	48:BP:109:THR:H	2.09	0.76
34:BA:953:G:O2'	34:BA:954:G:H5'	1.85	0.76
34:BA:1269:A:H5'	34:BA:1326:C:C4'	2.14	0.76
37:BE:48:MET:HA	37:BE:51:LEU:HD12	1.67	0.76
37:BE:235:SER:O	37:BE:238:LEU:HD23	1.86	0.76
39:BG:193:ASP:O	39:BG:194:LEU:HD13	1.85	0.76
40:BH:57:LYS:HG2	40:BH:61:TYR:HE2	1.49	0.76
42:BJ:42:ILE:HG22	42:BJ:120:ILE:CD1	2.15	0.76
42:BJ:65:ALA:HA	42:BJ:68:ASN:ND2	2.00	0.76
43:BK:69:ARG:CZ	43:BK:74:PRO:O	2.34	0.76
44:BL:24:GLY:O	44:BL:25:LYS:HG3	1.84	0.76
44:BL:117:HIS:O	44:BL:119:ALA:N	2.15	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:99:GLN:CG	46:BN:105:VAL:HG11	2.15	0.76
55:BW:12:ALA:H	55:BW:13:LEU:HD12	1.50	0.76
1:AB:28:C:P	16:AQ:42:HIS:NE2	2.58	0.76
2:AA:152:G:C8	2:AA:152:G:H3'	2.19	0.76
2:AA:279:C:H2'	2:AA:360:G:O6	1.85	0.76
2:AA:289:A:O3'	2:AA:351:G:O6	2.03	0.76
2:AA:324:A:C2	2:AA:325:G:N9	2.53	0.76
2:AA:593:G:H1'	32:A8:3:LYS:NZ	2.00	0.76
2:AA:614:U:H3'	2:AA:615:G:C4'	2.11	0.76
2:AA:673:C:H5''	6:AF:80:VAL:CG1	2.15	0.76
2:AA:782:A:H5''	2:AA:783:A:OP1	1.85	0.76
2:AA:1011:G:H5'	2:AA:1012:U:OP2	1.86	0.76
2:AA:1034:G:H5'	33:A9:18:ARG:NE	1.99	0.76
2:AA:1076:C:O2	11:AL:92:PRO:HD2	1.85	0.76
2:AA:1303:G:N2	2:AA:1626:G:O2'	2.19	0.76
2:AA:1340:U:H5	19:AT:55:GLN:NE2	1.82	0.76
2:AA:1681:G:N7	2:AA:1762:A:N6	2.32	0.76
2:AA:1806:C:H2'	2:AA:1807:G:H5'	1.66	0.76
2:AA:1930:G:C2'	2:AA:1931:U:OP2	2.33	0.76
2:AA:2067:G:H5''	2:AA:2068:U:OP2	1.85	0.76
2:AA:2146:C:H2'	2:AA:2147:G:C2	2.20	0.76
2:AA:2330:G:H1	2:AA:2385:C:N4	1.84	0.76
2:AA:2617:C:H1'	5:AE:245:ARG:NH2	2.00	0.76
2:AA:2743:C:C2	2:AA:2762:G:C2	2.73	0.76
2:AA:2809:A:H4'	2:AA:2811:G:N7	2.00	0.76
2:AA:2821:A:OP2	2:AA:2822:G:OP2	2.02	0.76
4:AD:131:LEU:CD1	4:AD:171:VAL:HG21	2.16	0.76
4:AD:142:ASN:H	4:AD:143:ILE:HD12	1.48	0.76
5:AE:105:HIS:ND1	5:AE:108:LEU:HD11	1.99	0.76
13:AN:81:GLU:HG2	13:AN:82:ASN:H	0.67	0.76
14:AO:70:ASP:O	14:AO:74:THR:HG23	1.85	0.76
16:AQ:89:GLY:HA2	16:AQ:127:LEU:HD12	1.66	0.76
20:AU:28:SER:HB3	20:AU:99:THR:HG23	1.68	0.76
20:AU:72:ILE:O	20:AU:91:LEU:HB2	1.85	0.76
23:AX:48:GLU:O	23:AX:51:ALA:HB2	1.85	0.76
31:A7:30:ILE:HD13	31:A7:33:ARG:CZ	2.16	0.76
32:A8:30:ARG:HB3	32:A8:44:LYS:HZ1	1.50	0.76
34:BA:362:G:O5'	47:BO:34:ARG:NH2	2.17	0.76
34:BA:653:A:O5'	43:BK:56:LYS:NZ	2.16	0.76
34:BA:813:U:H5''	34:BA:814:A:OP2	1.85	0.76
34:BA:1006:C:N4	34:BA:1024:G:H21	1.82	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1129:C:O2'	34:BA:1131:G:H3'	1.86	0.76
34:BA:1137:C:H4'	34:BA:1138:G:C2	2.21	0.76
34:BA:1155:G:H2'	34:BA:1156:G:C8	2.20	0.76
34:BA:1202:G:H1'	49:BQ:29:ARG:HD3	1.67	0.76
35:BB:74:C:N3	35:BB:75:C:H1'	2.00	0.76
37:BE:21:ARG:HD2	37:BE:21:ARG:N	2.00	0.76
37:BE:136:VAL:CA	37:BE:139:LYS:HZ2	1.97	0.76
41:BI:41:GLU:O	41:BI:42:GLU:HB2	1.83	0.76
42:BJ:150:ALA:HB2	46:BN:59:TYR:CD2	2.21	0.76
43:BK:111:ILE:HG22	43:BK:134:ILE:HD12	1.68	0.76
46:BN:32:ILE:C	46:BN:40:ILE:HG13	2.10	0.76
46:BN:104:GLN:O	46:BN:106:LYS:N	2.18	0.76
47:BO:28:LYS:HD2	47:BO:33:ARG:HH22	1.51	0.76
48:BP:11:ARG:HG3	48:BP:11:ARG:NH1	1.95	0.76
50:BR:39:LEU:CD1	50:BR:56:LEU:HB2	2.16	0.76
50:BR:62:GLN:HA	50:BR:65:ARG:HH22	1.50	0.76
52:BT:96:GLN:CD	52:BT:97:SER:N	2.43	0.76
2:AA:78:A:H2'	2:AA:79:G:H8	1.51	0.76
2:AA:293:U:O2'	2:AA:294:A:O4'	2.04	0.76
2:AA:499:U:C2'	2:AA:500:G:H5'	2.15	0.76
2:AA:526:A:H5''	2:AA:527:C:OP2	1.86	0.76
2:AA:558:G:C2	2:AA:559:G:N7	2.54	0.76
2:AA:697:C:N3	2:AA:765:G:O6	2.19	0.76
2:AA:770:G:C5'	31:A7:10:ARG:HH11	1.98	0.76
2:AA:1078:U:OP1	11:AL:93:LYS:HG3	1.84	0.76
2:AA:1128:A:H2	2:AA:1129:A:C6	2.04	0.76
2:AA:1137:G:O2'	12:AM:82:THR:O	2.03	0.76
2:AA:1937:A:N6	2:AA:1939:U:C5	2.53	0.76
2:AA:1961:C:C2'	2:AA:1962:C:H5'	2.16	0.76
2:AA:2132:U:C4'	3:AC:5:LYS:HG2	2.15	0.76
2:AA:2285:C:OP2	30:A6:28:ARG:HD3	1.86	0.76
2:AA:2311:A:OP2	7:AG:55:LYS:HE3	1.85	0.76
2:AA:2330:G:N2	2:AA:2331:G:N3	2.33	0.76
2:AA:2526:G:O2'	2:AA:2527:C:H5'	1.85	0.76
2:AA:2528:U:H2'	2:AA:2530:A:O5'	1.86	0.76
2:AA:2589:A:N1	2:AA:2606:C:N4	2.34	0.76
2:AA:2592:G:H2'	2:AA:2593:U:O5'	1.84	0.76
2:AA:2830:G:N3	2:AA:2883:A:H2	1.84	0.76
4:AD:66:PHE:CZ	4:AD:150:GLY:HA3	2.20	0.76
6:AF:196:THR:HA	6:AF:236:THR:CG2	2.15	0.76
9:AJ:63:LEU:HG	9:AJ:102:ILE:HB	1.67	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:115:ILE:O	10:AK:132:LYS:HE3	1.85	0.76
10:AK:134:HIS:ND1	10:AK:135:PRO:HD2	2.01	0.76
10:AK:147:GLU:O	10:AK:149:LYS:N	2.19	0.76
12:AM:45:VAL:N	12:AM:132:LEU:HB2	2.01	0.76
17:AR:53:ASP:CA	17:AR:56:ARG:HG3	2.16	0.76
19:AT:11:THR:O	19:AT:12:GLU:C	2.28	0.76
20:AU:51:LEU:O	20:AU:52:ARG:HG3	1.85	0.76
20:AU:78:THR:CA	20:AU:89:ARG:HG3	2.14	0.76
21:AV:5:ALA:HB3	21:AV:13:LYS:HZ1	1.51	0.76
23:AX:50:VAL:CG1	23:AX:53:LEU:HD12	2.15	0.76
27:A3:68:VAL:CG1	27:A3:71:ASN:HB2	2.15	0.76
28:A4:28:ARG:HB3	28:A4:29:PRO:CD	2.14	0.76
34:BA:575:G:O2'	34:BA:576:G:O5'	2.04	0.76
34:BA:674:G:H2'	34:BA:675:A:H8	1.51	0.76
34:BA:954:G:H21	34:BA:1227:A:H62	1.33	0.76
34:BA:1292:U:H2'	34:BA:1293:G:C8	2.21	0.76
34:BA:1298:C:C4	42:BJ:114:ARG:HB3	2.20	0.76
34:BA:1329:A:OP1	48:BP:28:ALA:HB3	1.85	0.76
35:BB:29:A:C2	35:BB:30:G:C8	2.73	0.76
38:BF:52:LEU:HD23	38:BF:52:LEU:N	2.01	0.76
39:BG:63:LYS:HG2	39:BG:64:LEU:H	1.51	0.76
40:BH:59:GLY:O	40:BH:62:ALA:HB3	1.86	0.76
40:BH:71:LEU:HD21	40:BH:115:VAL:CG1	2.16	0.76
40:BH:79:GLU:HG3	40:BH:93:PRO:HD2	1.67	0.76
46:BN:126:ARG:C	46:BN:128:ALA:H	1.93	0.76
47:BO:86:ARG:NH1	47:BO:99:HIS:ND1	2.34	0.76
48:BP:23:TYR:HD2	48:BP:70:LEU:HD13	1.51	0.76
55:BW:49:ALA:HB1	55:BW:99:LEU:HG	1.66	0.76
55:BW:89:ARG:HA	55:BW:92:LEU:HD12	1.66	0.76
2:AA:270(H):C:C2	2:AA:270(R):G:N2	2.54	0.76
2:AA:445:C:C3'	25:A1:3:ARG:HH21	1.98	0.76
2:AA:515:A:H3'	2:AA:516:C:C6	2.19	0.76
2:AA:703:U:H3'	2:AA:704:G:C8	2.20	0.76
2:AA:848:G:C8	2:AA:848:G:H3'	2.20	0.76
2:AA:849:A:C2'	2:AA:850:C:H5'	2.15	0.76
2:AA:1299:G:H5''	2:AA:1300:U:H5'	1.68	0.76
2:AA:1364:G:H8	2:AA:1364:G:H5'	1.51	0.76
2:AA:1450:C:H42	2:AA:1461:G:H1	0.76	0.76
2:AA:1530:G:C6	2:AA:1541:U:O2	2.39	0.76
2:AA:1603:A:C4	2:AA:1604:C:H5	2.04	0.76
2:AA:1655:A:H4'	5:AE:211:GLN:C	2.11	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1657:C:O2'	2:AA:1658:C:H5'	1.86	0.76
2:AA:1800:C:H6	2:AA:1800:C:C3'	1.92	0.76
2:AA:2027:G:O2'	2:AA:2028:U:H5'	1.84	0.76
2:AA:2122:U:C5	3:AC:129:ARG:NH2	2.54	0.76
2:AA:2335:A:H2'	2:AA:2337:G:N7	2.01	0.76
2:AA:2507:C:N3	2:AA:2583:G:N3	2.33	0.76
2:AA:2657:A:N7	2:AA:2658:C:C6	2.54	0.76
2:AA:2810:A:C2'	2:AA:2811:G:H5'	2.14	0.76
5:AE:39:GLN:HB2	5:AE:174:LEU:CG	2.15	0.76
5:AE:44:TYR:O	5:AE:73:ILE:HG23	1.86	0.76
6:AF:142:ASP:OD1	6:AF:237:GLU:HB2	1.85	0.76
8:AH:88:LEU:HD12	8:AH:95:ALA:HB3	1.68	0.76
8:AH:116:PRO:CB	8:AH:120:LEU:HB2	2.15	0.76
9:AI:77:VAL:HG22	9:AI:102:ILE:CD1	2.16	0.76
9:AJ:102:ILE:HD13	9:AJ:118:LEU:HD22	1.67	0.76
12:AM:14:ALA:O	12:AM:40:ASN:ND2	2.19	0.76
13:AN:66:LYS:C	13:AN:66:LYS:HD2	2.11	0.76
16:AQ:41:LYS:HD2	16:AQ:42:HIS:CD2	2.21	0.76
20:AU:27:LEU:O	20:AU:32:ARG:HB2	1.85	0.76
20:AU:31:LEU:HD11	20:AU:99:THR:O	1.85	0.76
23:AX:18:ASP:O	23:AX:21:ALA:N	2.18	0.76
24:A0:75:LEU:HD23	24:A0:78:LYS:HB3	1.67	0.76
24:A0:88:ARG:O	24:A0:89:ASP:HB3	1.86	0.76
26:A2:51:ALA:O	26:A2:55:THR:HG23	1.86	0.76
26:A2:60:VAL:O	26:A2:98:ILE:CB	2.31	0.76
28:A4:15:ILE:CG1	28:A4:36:TRP:CE3	2.69	0.76
31:A7:26:SER:O	31:A7:29:ASN:HB2	1.86	0.76
32:A8:5:LYS:C	32:A8:7:HIS:N	2.43	0.76
34:BA:48:C:O2'	34:BA:49:U:OP1	2.01	0.76
34:BA:448:A:OP2	34:BA:485:G:N2	2.18	0.76
34:BA:736:C:H2'	34:BA:737:A:C8	2.21	0.76
34:BA:776:G:H22	34:BA:802:A:P	2.08	0.76
34:BA:817:C:O2'	34:BA:818:G:C5'	2.34	0.76
34:BA:986:A:C4'	54:BV:55:LYS:HG3	2.16	0.76
34:BA:1118:C:H1'	34:BA:1179:A:C4	2.21	0.76
34:BA:1352:C:H2'	34:BA:1353:G:C8	2.21	0.76
35:BB:15:G:H22	35:BB:48:C:H42	1.33	0.76
36:B1:48:A:H2'	36:B1:49:A:H8	1.49	0.76
39:BG:57:ARG:NH2	40:BH:107:ARG:HD3	1.98	0.76
39:BG:148:VAL:HB	39:BG:181:MET:CE	2.15	0.76
39:BG:177:ASP:OD1	39:BG:179:GLU:HB2	1.84	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BI:53:ALA:HB3	41:BI:55:ASP:OD2	1.86	0.76
41:BI:84:ASN:O	41:BI:86:ARG:N	2.19	0.76
43:BK:40:ALA:CA	43:BK:45:ILE:HG23	2.15	0.76
44:BL:47:LEU:HD22	44:BL:50:LEU:HB2	1.68	0.76
48:BP:84:ILE:HD11	48:BP:86:CYS:SG	2.26	0.76
50:BR:68:ARG:O	50:BR:69:TYR:C	2.27	0.76
51:BS:74:LEU:O	51:BS:77:ALA:HB3	1.86	0.76
53:BU:21:LYS:HA	53:BU:55:ARG:NH1	1.99	0.76
55:BW:65:LYS:O	55:BW:68:LYS:HG2	1.84	0.76
2:AA:292:C:H3'	2:AA:293:U:O4	1.85	0.76
2:AA:822:U:H2'	2:AA:823:G:H8	1.48	0.76
2:AA:865:C:N4	2:AA:909:A:H62	1.83	0.76
2:AA:969:U:C2'	2:AA:970:C:O4'	2.34	0.76
2:AA:980:A:N6	2:AA:1135:C:H4'	2.01	0.76
2:AA:1030:G:N2	2:AA:1124:C:N3	2.34	0.76
2:AA:1139:G:C2'	2:AA:1140:C:H5'	2.16	0.76
2:AA:1273:U:C2	2:AA:2003:G:H5'	2.21	0.76
2:AA:1770:G:O6	2:AA:1983:C:N4	2.18	0.76
2:AA:1779:U:H5	2:AA:1784:A:N1	1.84	0.76
2:AA:1786:A:C2	2:AA:1938:A:N6	2.53	0.76
2:AA:2118:U:H2'	2:AA:2119:A:H4'	1.68	0.76
2:AA:2686:G:O2'	2:AA:2687:U:H5'	1.86	0.76
3:AC:68:LEU:CB	3:AC:72:VAL:HG21	2.16	0.76
5:AE:216:ARG:HH11	5:AE:253:GLN:HB3	1.48	0.76
5:AE:315:VAL:CG1	5:AE:316:ARG:H	1.99	0.76
6:AF:197:SER:HB2	6:AF:238:SER:CB	2.14	0.76
8:AH:8:ILE:O	8:AH:49:ILE:HD12	1.85	0.76
8:AH:129:LYS:C	8:AH:130:ILE:HD12	2.11	0.76
9:AJ:52:ALA:HB1	9:AJ:58:GLU:HB2	1.66	0.76
10:AK:103:GLN:HE21	10:AK:110:LEU:N	1.84	0.76
10:AK:119:ASP:CG	10:AK:120:ALA:N	2.39	0.76
11:AL:60:VAL:HA	11:AL:65:SER:O	1.85	0.76
12:AM:17:CYS:HB2	12:AM:22:VAL:HG21	1.68	0.76
12:AM:45:VAL:HA	12:AM:131:THR:O	1.84	0.76
13:AN:11:ALA:HA	13:AN:99:PHE:CB	2.15	0.76
13:AN:35:ILE:HA	13:AN:62:VAL:O	1.86	0.76
13:AN:63:VAL:HG23	13:AN:84:CYS:CA	2.15	0.76
15:AP:47:GLU:OE2	15:AP:152:SER:N	2.18	0.76
16:AQ:115:VAL:O	16:AQ:116:PHE:C	2.28	0.76
24:A0:82:GLU:HB3	24:A0:83:ILE:CD1	2.16	0.76
26:A2:37:ALA:O	26:A2:58:ALA:HB1	1.85	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:A4:18:GLY:HA2	28:A4:19:GLN:NE2	2.01	0.76
31:A7:41:GLN:C	31:A7:42:LEU:HG	2.11	0.76
31:A7:43:THR:O	31:A7:46:ASP:CG	2.28	0.76
34:BA:30:U:H4'	34:BA:31:G:OP2	1.86	0.76
34:BA:198:G:O2'	34:BA:199:G:O5'	2.04	0.76
34:BA:219:C:H3'	34:BA:219:C:C6	2.20	0.76
34:BA:397:A:N7	34:BA:548:G:C8	2.54	0.76
34:BA:504:C:H42	34:BA:541:G:H1	1.30	0.76
34:BA:619:U:N3	39:BG:135:LEU:HD21	1.99	0.76
34:BA:673:G:N2	34:BA:674:G:C2	2.54	0.76
34:BA:859:A:O2'	34:BA:860:A:H5'	1.86	0.76
34:BA:1148:U:H2'	34:BA:1149:C:C6	2.21	0.76
34:BA:1511:G:H2'	34:BA:1512:U:O4'	1.85	0.76
34:BA:1518:A:O5'	34:BA:1518:A:H8	1.67	0.76
37:BE:213:LEU:CD2	37:BE:214:ILE:HD13	2.16	0.76
40:BH:98:THR:O	40:BH:101:ILE:HD11	1.85	0.76
43:BK:6:ILE:HD13	43:BK:7:ALA:HA	1.67	0.76
43:BK:24:THR:O	43:BK:60:ARG:CG	2.33	0.76
55:BW:73:HIS:O	55:BW:74:LYS:O	2.03	0.76
1:AB:17:C:H2'	1:AB:18:G:O4'	1.86	0.76
1:AB:100:G:H2'	1:AB:101:A:O4'	1.85	0.76
2:AA:34:C:C2'	2:AA:455:C:N4	2.49	0.76
2:AA:270:A:N7	2:AA:270(A):A:H8	1.83	0.76
2:AA:319:C:H42	2:AA:323:G:H1	1.31	0.76
2:AA:325:G:O2'	2:AA:326:G:H5'	1.86	0.76
2:AA:342:G:H22	2:AA:344:G:N2	1.83	0.76
2:AA:391:G:H2'	2:AA:392:C:C6	2.20	0.76
2:AA:563:G:OP1	26:A2:79:GLN:NE2	2.17	0.76
2:AA:572:A:N7	2:AA:573:G:C5	2.54	0.76
2:AA:680:G:H2'	2:AA:681:G:C8	2.21	0.76
2:AA:715:G:C2	2:AA:716:A:C2	2.74	0.76
2:AA:759:G:H2'	2:AA:760:G:H8	1.50	0.76
2:AA:796:C:H2'	2:AA:797:C:C6	2.20	0.76
2:AA:886:C:H1'	2:AA:887:A:C8	2.21	0.76
2:AA:1084:A:O5'	9:AI:37:VAL:C	2.27	0.76
2:AA:1366:A:C8	2:AA:1366:A:OP2	2.39	0.76
2:AA:1394:U:H4'	2:AA:1603:A:H4'	1.67	0.76
2:AA:1437:C:O2'	2:AA:1516:U:O2'	2.03	0.76
2:AA:1520:U:O5'	2:AA:1520:U:H6	1.69	0.76
2:AA:2218:G:H5'	4:AD:147:PRO:HG3	1.68	0.76
2:AA:2535:G:N3	2:AA:2535:G:H2'	1.99	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2591:C:H2'	2:AA:2592:G:C8	2.20	0.76
2:AA:2897:U:H2'	2:AA:2898:U:H6	1.49	0.76
5:AE:300:VAL:C	5:AE:302:GLY:H	1.93	0.76
6:AF:236:THR:O	6:AF:239:ALA:CB	2.33	0.76
7:AG:93:LEU:HD13	7:AG:106:PHE:CD2	2.21	0.76
9:AI:114:ILE:O	9:AI:118:LEU:HG	1.85	0.76
10:AK:5:PHE:N	10:AK:5:PHE:CD2	2.48	0.76
16:AQ:12:ARG:HD2	16:AQ:20:TYR:CE1	2.20	0.76
17:AR:50:GLU:HA	17:AR:55:ALA:HB2	1.66	0.76
18:AS:81:ALA:HB2	18:AS:99:ARG:NH1	2.01	0.76
20:AU:23:VAL:CG2	20:AU:67:LEU:HD21	2.11	0.76
20:AU:46:ASP:OD2	20:AU:101:LEU:HA	1.85	0.76
25:A1:59:ARG:HA	25:A1:62:ILE:HG12	1.66	0.76
26:A2:3:ALA:HB1	26:A2:39:PHE:CZ	2.20	0.76
27:A3:44:LYS:HB3	27:A3:45:PHE:HD1	1.51	0.76
29:A5:15:LYS:C	29:A5:18:MET:HG2	2.11	0.76
34:BA:443:C:H42	34:BA:491:G:H1	1.34	0.76
34:BA:806:C:N4	34:BA:807:A:N6	2.33	0.76
34:BA:3(A):G:C5	34:BA:1004:A:H1'	2.21	0.76
34:BA:1062:U:N3	34:BA:1063:C:N4	2.33	0.76
34:BA:1463:C:O2'	34:BA:1464:G:H5'	1.86	0.76
37:BE:16:HIS:CD2	37:BE:210:SER:HA	2.21	0.76
39:BG:104:VAL:HG21	39:BG:140:VAL:CG2	2.15	0.76
39:BG:154:ASN:HA	39:BG:159:ARG:HH22	1.50	0.76
45:BM:48:THR:HG23	45:BM:61:GLU:O	1.85	0.76
1:AB:45:A:H1'	7:AG:76:ARG:HH12	1.50	0.76
2:AA:35:G:H1'	2:AA:454:A:N3	2.01	0.76
2:AA:64:A:H2'	2:AA:65:C:O4'	1.86	0.76
2:AA:134:C:H2'	2:AA:135:G:O4'	1.85	0.76
2:AA:681:G:H1	2:AA:796:C:N4	1.84	0.76
2:AA:897:C:O3'	35:BB:56:C:OP1	2.02	0.76
2:AA:977:G:C5	2:AA:987:G:C2	2.74	0.76
2:AA:1014:U:H2'	2:AA:1015:G:C5'	2.15	0.76
2:AA:1056:G:O6	2:AA:1101:U:H3'	1.86	0.76
2:AA:1085:A:H5''	9:AI:34:ALA:HA	1.68	0.76
2:AA:1179:C:H4'	2:AA:1180:C:OP1	1.84	0.76
2:AA:1434:A:C5	2:AA:1560:G:N2	2.55	0.76
2:AA:1436:G:O2'	2:AA:1437:C:H5'	1.86	0.76
2:AA:2457:U:O2'	2:AA:2458:G:H5'	1.86	0.76
2:AA:2564:A:C6	2:AA:2647:U:H4'	2.21	0.76
2:AA:2612:C:O2'	2:AA:2613:U:P	2.44	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2739:U:H6	2:AA:2739:U:C3'	1.97	0.76
3:AC:43:VAL:CG2	3:AC:175:VAL:HG11	2.16	0.76
3:AC:123:VAL:HG11	3:AC:138:PRO:CD	2.16	0.76
4:AD:85:ASN:CG	4:AD:86:ARG:NE	2.43	0.76
5:AE:263:GLU:N	5:AE:266:LYS:NZ	2.28	0.76
6:AF:193:LEU:HD12	6:AF:233:THR:HG22	1.68	0.76
8:AH:41:THR:O	8:AH:52:THR:CG2	2.34	0.76
9:AJ:64:LYS:HE2	9:AJ:126:GLU:HB3	1.68	0.76
13:AN:22:ILE:CG1	13:AN:41:ALA:HA	2.15	0.76
13:AN:87:ILE:HG23	13:AN:92:SER:H	1.49	0.76
20:AU:31:LEU:HD22	20:AU:113:GLU:OE1	1.85	0.76
24:A0:43:GLU:N	24:A0:43:GLU:OE2	2.18	0.76
24:A0:83:ILE:CG2	24:A0:86:ARG:NE	2.49	0.76
25:A1:111:ASP:HA	25:A1:114:ARG:CD	2.16	0.76
26:A2:61:VAL:CG2	26:A2:97:GLY:HA2	2.16	0.76
28:A4:73:LYS:OXT	28:A4:73:LYS:HG3	1.83	0.76
31:A7:21:ARG:HH12	31:A7:42:LEU:HB3	1.51	0.76
33:A9:9:LYS:HG2	33:A9:14:CYS:O	1.86	0.76
34:BA:132:C:N3	34:BA:231:G:C2	2.54	0.76
34:BA:766:A:C2'	34:BA:767:A:H8	1.90	0.76
34:BA:819:A:C2	34:BA:1529:G:C6	2.74	0.76
34:BA:978:A:C6	34:BA:1318:A:N6	2.54	0.76
34:BA:1216:G:H5''	49:BQ:5:ALA:CB	2.16	0.76
34:BA:1454:G:H2'	34:BA:1455:G:C8	2.21	0.76
38:BF:91:LEU:HD23	38:BF:92:ALA:N	1.99	0.76
48:BP:78:ILE:HA	48:BP:88:ARG:NH2	2.01	0.76
52:BT:6:LEU:CD2	52:BT:23:VAL:HG11	2.16	0.76
54:BV:28:LYS:O	54:BV:29:ARG:HG3	1.86	0.76
55:BW:50:GLU:H	55:BW:99:LEU:CD1	1.99	0.76
55:BW:62:LEU:HD23	55:BW:62:LEU:H	1.51	0.76
1:AB:104:A:C1'	21:AV:24:TYR:OH	2.32	0.75
2:AA:6:A:H5'	12:AM:4:ALA:HB3	1.68	0.75
2:AA:128:C:H2'	2:AA:129:C:H6	1.49	0.75
2:AA:136:G:N1	2:AA:143:C:O2	2.19	0.75
2:AA:215:G:O2'	2:AA:216:A:H5''	1.86	0.75
2:AA:621:A:H2'	2:AA:622:G:C5'	2.11	0.75
2:AA:871:U:C4'	15:AP:90:PHE:CE2	2.67	0.75
2:AA:974:G:N7	26:A2:80:TYR:CZ	2.55	0.75
2:AA:1286:A:N6	2:AA:1289:C:C2	2.54	0.75
2:AA:1320:C:N4	2:AA:1329:U:H5'	2.00	0.75
2:AA:1787:A:H2'	2:AA:1788:C:C6	2.20	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1851:U:H3	2:AA:1891:G:H1	1.34	0.75
2:AA:1903:G:N3	2:AA:1904:G:C8	2.54	0.75
2:AA:1995:U:C6	2:AA:1996:C:H5	2.04	0.75
2:AA:2063:C:O2	2:AA:2450:A:N1	2.20	0.75
2:AA:2447:G:C5	2:AA:2501:C:C2	2.73	0.75
2:AA:2469:A:H2'	2:AA:2470:G:H5'	1.68	0.75
2:AA:2785:C:H4'	5:AE:99:VAL:HG13	1.68	0.75
4:AD:89:ASN:ND2	4:AD:199:ARG:CZ	2.48	0.75
4:AD:145:LEU:HD13	4:AD:146:LYS:HZ2	1.51	0.75
6:AF:213:ALA:CB	6:AF:218:VAL:HG22	2.07	0.75
10:AK:2:LYS:HD2	10:AK:39:ALA:CB	2.15	0.75
10:AK:75:LEU:O	10:AK:142:LYS:NZ	2.16	0.75
10:AK:77:VAL:HG11	10:AK:143:VAL:HG22	1.68	0.75
10:AK:88:ARG:HB3	10:AK:122:ARG:CG	2.14	0.75
10:AK:110:LEU:HD11	10:AK:133:LEU:CD2	2.16	0.75
10:AK:115:ILE:CG2	10:AK:131:VAL:HG22	2.11	0.75
12:AM:87:LEU:HD22	12:AM:98:PHE:CD1	2.21	0.75
14:AO:79:ASP:CG	14:AO:80:ASP:N	2.40	0.75
18:AS:19:LEU:O	29:A5:25:LEU:HD12	1.86	0.75
23:AX:55:ARG:NH1	23:AX:55:ARG:CB	2.49	0.75
31:A7:30:ILE:HD13	31:A7:33:ARG:HD2	1.68	0.75
34:BA:8:A:H5'	40:BH:120:THR:O	1.86	0.75
34:BA:114:U:O2	34:BA:114:U:H2'	1.85	0.75
34:BA:197:A:N6	34:BA:221:C:C5'	2.48	0.75
34:BA:771:G:H2'	34:BA:772:U:H6	1.50	0.75
34:BA:800:G:H8	34:BA:800:G:O5'	1.68	0.75
34:BA:1060:C:H5''	45:BM:51:ARG:HB3	1.69	0.75
34:BA:1375:A:C2	34:BA:1376:U:C2	2.74	0.75
35:BB:34:G:O6	36:B1:66:G:OP2	2.04	0.75
35:BB:60:C:H4'	35:BB:61:C:OP2	1.85	0.75
35:BB:75:C:C5	35:BB:76:A:C2	2.74	0.75
35:BC:37:G:C4	35:BC:38:A:N7	2.54	0.75
35:BC:46:G:H8	35:BC:46:G:OP2	1.69	0.75
37:BE:222:ILE:O	37:BE:226:ARG:HG3	1.85	0.75
38:BF:55:VAL:HG13	38:BF:68:VAL:HG22	1.66	0.75
38:BF:59:ARG:NE	38:BF:64:VAL:HG22	2.01	0.75
39:BG:61:LYS:HZ1	39:BG:65:ARG:HD2	1.47	0.75
40:BH:57:LYS:CG	40:BH:61:TYR:HE2	1.99	0.75
42:BJ:78:ARG:O	42:BJ:80:VAL:HG23	1.85	0.75
44:BL:7:THR:O	44:BL:83:ARG:HD2	1.84	0.75
46:BN:62:GLN:NE2	46:BN:63:LEU:HG	1.96	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:126:LYS:C	47:BO:126:LYS:HD2	2.12	0.75
49:BQ:9:LYS:HZ2	49:BQ:10:ALA:HB2	1.48	0.75
1:AB:21:G:H1	1:AB:62:C:H42	0.80	0.75
2:AA:201:C:C5	2:AA:202:U:C4	2.74	0.75
2:AA:273(F):C:H5'	2:AA:274:G:OP2	1.84	0.75
2:AA:295:G:O6	2:AA:344:G:O6	2.03	0.75
2:AA:479:A:N7	2:AA:481:G:C4	2.54	0.75
2:AA:997:G:H4'	25:A1:92:ARG:HH11	1.47	0.75
2:AA:1025:G:C8	2:AA:1134:G:O4'	2.39	0.75
2:AA:1084:A:H5'	9:AI:35:ALA:C	2.11	0.75
2:AA:1238:G:H2'	2:AA:1239:G:H5'	1.66	0.75
2:AA:1287:A:C8	24:A0:104:ARG:NH1	2.53	0.75
2:AA:1368:G:OP1	31:A7:25:LYS:CD	2.34	0.75
2:AA:1439:A:H8	2:AA:1440:G:C8	2.03	0.75
2:AA:1748:G:H2'	2:AA:1749:A:H8	1.50	0.75
2:AA:1784:A:H4'	2:AA:1785:A:H5''	1.67	0.75
2:AA:1993:U:H2'	2:AA:1994:C:H5'	1.66	0.75
2:AA:2052:G:H2'	2:AA:2053:G:H8	1.51	0.75
2:AA:2286:A:H2	30:A6:27:ASN:HB3	1.52	0.75
2:AA:2320:A:N1	16:AQ:13:ARG:CG	2.50	0.75
2:AA:2423:U:H5'	2:AA:2423:U:C6	2.21	0.75
2:AA:2491:U:O2	2:AA:2491:U:C2'	2.35	0.75
2:AA:2578:G:O2'	2:AA:2579:C:O5'	2.04	0.75
2:AA:2684:U:H4'	13:AN:76:TYR:CE2	2.20	0.75
3:AC:58:VAL:HG13	3:AC:199:HIS:HB3	1.69	0.75
4:AD:208:GLY:HA3	4:AD:210:LYS:NZ	2.01	0.75
4:AD:209:ASN:O	4:AD:212:HIS:HB2	1.86	0.75
6:AF:106:GLU:HA	6:AF:109:LEU:HD12	1.67	0.75
8:AH:148:ARG:NH2	8:AH:164:GLU:N	2.35	0.75
10:AK:110:LEU:HD21	10:AK:114:LYS:CG	2.11	0.75
10:AK:125:GLY:O	10:AK:144:HIS:HA	1.85	0.75
12:AM:36:VAL:HG12	12:AM:38:VAL:HG23	1.68	0.75
12:AM:44:ALA:CB	12:AM:132:LEU:CD2	2.64	0.75
15:AP:26:LYS:CD	15:AP:89:PRO:HD2	2.10	0.75
15:AP:45:GLN:HG2	15:AP:125:TRP:NE1	2.00	0.75
23:AX:4:LEU:HG	23:AX:37:LEU:O	1.86	0.75
24:A0:67:LEU:CD2	24:A0:71:GLN:HA	2.16	0.75
26:A2:5:ILE:HG23	26:A2:39:PHE:HA	1.68	0.75
28:A4:40:HIS:HB3	28:A4:41:PRO:CD	2.15	0.75
29:A5:18:MET:HA	29:A5:21:SER:HB3	1.67	0.75
30:A6:35:LEU:H	30:A6:35:LEU:HD23	1.51	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:43:C:H5''	51:BS:12:LYS:HB3	1.66	0.75
34:BA:585:G:H4'	47:BO:8:ASN:HD21	1.50	0.75
34:BA:613:C:H42	34:BA:627:G:H1	0.79	0.75
34:BA:688:G:H1	34:BA:699:C:N4	1.84	0.75
34:BA:947:G:H2'	34:BA:948:C:H6	1.49	0.75
34:BA:1025:U:H2'	34:BA:1026:G:C8	2.20	0.75
34:BA:1410:G:N2	34:BA:1490:C:N3	2.33	0.75
34:BA:1514:C:H2'	34:BA:1515:C:H6	1.50	0.75
35:BB:35:A:C8	35:BB:36:A:N7	2.55	0.75
37:BE:58:ILE:HG22	37:BE:221:LEU:CD1	2.16	0.75
37:BE:102:LEU:HB2	37:BE:176:GLU:OE1	1.86	0.75
39:BG:64:LEU:HD22	39:BG:67:ILE:HD12	1.68	0.75
41:BI:17:SER:O	41:BI:20:ALA:HB3	1.87	0.75
42:BJ:121:ALA:HB1	42:BJ:125:MET:HE2	1.66	0.75
43:BK:19:VAL:CG2	43:BK:21:LYS:HG2	2.17	0.75
43:BK:86:ILE:HD11	43:BK:136:GLU:OE1	1.86	0.75
44:BL:12:GLU:H	44:BL:104:ARG:HH22	1.35	0.75
45:BM:6:ILE:CD1	45:BM:23:ILE:HG21	2.16	0.75
45:BM:58:ASP:O	45:BM:60:ARG:HB2	1.85	0.75
50:BR:42:HIS:CD2	50:BR:43:LEU:N	2.55	0.75
51:BS:71:ARG:HG2	51:BS:72:ARG:N	2.00	0.75
2:AA:137(A):G:H5''	2:AA:137(A):G:C2	2.21	0.75
2:AA:195:A:N6	2:AA:198:C:OP2	2.19	0.75
2:AA:226:G:C2	2:AA:227:A:N3	2.54	0.75
2:AA:261:G:C4'	2:AA:608:A:H2	1.99	0.75
2:AA:352:G:O5'	2:AA:352:G:C8	2.39	0.75
2:AA:443:A:H2	2:AA:1245:G:N3	1.83	0.75
2:AA:640:C:C2'	2:AA:641:C:H5'	2.15	0.75
2:AA:747:U:C5	2:AA:2613:U:H5	2.04	0.75
2:AA:878:A:N3	2:AA:879:G:C8	2.54	0.75
2:AA:963:U:H2'	2:AA:964:C:C5	2.21	0.75
2:AA:1138:G:H2'	2:AA:1138:G:N3	2.00	0.75
2:AA:1144:G:H2'	2:AA:1145:C:H6	1.51	0.75
2:AA:1341:U:O4	2:AA:1395:A:C2	2.38	0.75
2:AA:1470:G:N1	2:AA:1520:U:O4	2.20	0.75
2:AA:1543:A:H5'	2:AA:1544:C:C5	2.20	0.75
2:AA:1558:A:C2	2:AA:1560:G:C1'	2.69	0.75
2:AA:2125:G:P	3:AC:130:ILE:HA	2.25	0.75
2:AA:2393:A:OP2	32:A8:32:GLN:NE2	2.18	0.75
2:AA:2458:G:C8	2:AA:2490:G:C6	2.74	0.75
2:AA:2559:C:O2'	2:AA:2560:C:C5'	2.33	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2662:A:H2'	2:AA:2663:G:C5'	2.16	0.75
2:AA:2721:A:C6	2:AA:2873:A:N6	2.54	0.75
5:AE:174:LEU:H	5:AE:174:LEU:CD1	1.96	0.75
10:AK:59:ALA:HA	10:AK:62:LEU:HD12	1.69	0.75
10:AK:88:ARG:CD	10:AK:122:ARG:HB3	2.14	0.75
12:AM:60:ARG:CA	12:AM:71:TYR:CD2	2.69	0.75
13:AN:7:ARG:CZ	13:AN:44:LYS:HD3	2.15	0.75
13:AN:41:ALA:O	13:AN:42:THR:HG22	1.86	0.75
14:AO:82:ALA:C	14:AO:83:GLU:O	2.14	0.75
14:AO:125:PHE:H	14:AO:130:ARG:HE	1.33	0.75
16:AQ:31:LYS:CB	16:AQ:32:PRO:HD3	2.15	0.75
19:AT:9:HIS:O	19:AT:14:ALA:HB1	1.87	0.75
21:AV:100:THR:HG22	21:AV:137:ASP:CG	2.12	0.75
22:AW:51:LYS:O	22:AW:54:ALA:HB3	1.85	0.75
23:AX:30:ARG:HG3	23:AX:30:ARG:NH1	1.93	0.75
24:A0:76:VAL:HG12	24:A0:77:ARG:N	2.02	0.75
24:A0:77:ARG:HH11	24:A0:77:ARG:CB	2.00	0.75
25:A1:111:ASP:O	25:A1:115:ASN:ND2	2.19	0.75
26:A2:67:LYS:HG2	26:A2:70:TYR:CE1	2.21	0.75
27:A3:29:GLU:O	27:A3:30:VAL:C	2.28	0.75
27:A3:47:ALA:CB	27:A3:73:GLY:O	2.35	0.75
28:A4:61:LYS:O	28:A4:62:ARG:C	2.29	0.75
31:A7:4:THR:C	31:A7:6:GLN:HE22	1.94	0.75
31:A7:32:ALA:HA	31:A7:35:ARG:CD	2.16	0.75
34:BA:538:G:OP2	47:BO:115:LYS:HB2	1.85	0.75
34:BA:600:C:OP1	43:BK:97:VAL:N	2.20	0.75
34:BA:777:A:O2'	34:BA:778:G:H5'	1.87	0.75
34:BA:782:A:N6	34:BA:801:U:C6	2.55	0.75
34:BA:983:A:H2	34:BA:984:C:C6	2.04	0.75
34:BA:1069:C:N3	34:BA:1106:G:N2	2.35	0.75
34:BA:1226:C:C4	48:BP:104:ARG:HG3	2.21	0.75
34:BA:1237:C:H4'	34:BA:1334:G:N2	2.02	0.75
34:BA:1419:G:O6	34:BA:1482:G:C6	2.39	0.75
35:BB:39:U:H2'	35:BB:40:C:H6	1.50	0.75
35:BB:41:U:N3	35:BB:42:G:N7	2.34	0.75
39:BG:158:ILE:O	39:BG:162:LEU:HG	1.85	0.75
41:BI:95:GLU:O	53:BU:32:ARG:HD2	1.85	0.75
42:BJ:118:VAL:HG12	42:BJ:122:HIS:CE1	2.21	0.75
43:BK:61:VAL:CG1	43:BK:62:TYR:H	1.99	0.75
43:BK:129:VAL:HG22	43:BK:130:GLY:H	1.51	0.75
45:BM:82:ILE:O	45:BM:86:MET:HB2	1.87	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:87:THR:HG22	46:BN:91:ARG:NH2	2.01	0.75
48:BP:36:LYS:HD3	48:BP:59:TYR:OH	1.87	0.75
53:BU:39:VAL:O	53:BU:42:ARG:HB2	1.86	0.75
1:AB:81:G:C6	1:AB:82:G:N7	2.54	0.75
2:AA:15:G:H2'	2:AA:16:G:H5'	1.69	0.75
2:AA:188:G:H2'	2:AA:189:G:O4'	1.86	0.75
2:AA:271(C):U:O2'	2:AA:271:G:O4'	2.04	0.75
2:AA:303:U:O2'	2:AA:304:G:H5'	1.87	0.75
2:AA:565:C:O2'	2:AA:1253:A:H2	1.68	0.75
2:AA:574:C:H4'	2:AA:575:A:H5'	1.67	0.75
2:AA:584:C:N3	2:AA:1256:G:N2	2.30	0.75
2:AA:1779:U:C2'	2:AA:1783:A:H62	1.98	0.75
2:AA:1846:G:C2'	2:AA:1847:A:H5'	2.15	0.75
2:AA:1861:G:H4'	3:AC:205:LYS:HZ1	1.49	0.75
2:AA:1925:C:O2	2:AA:1925:C:H2'	1.85	0.75
2:AA:2014:A:H2'	2:AA:2015:A:C2	2.22	0.75
2:AA:2300:G:O2'	2:AA:2301:C:H5'	1.87	0.75
2:AA:2416:C:C2'	2:AA:2417:C:C5'	2.65	0.75
2:AA:2575:C:C2'	5:AE:237:ASN:HD21	1.99	0.75
2:AA:2580:U:C6	2:AA:2581:G:C8	2.75	0.75
2:AA:2593:U:H3	2:AA:2600:A:N6	1.83	0.75
2:AA:2699:C:C2	2:AA:2708:G:N2	2.53	0.75
2:AA:2828:C:C2	2:AA:2829:C:C5	2.74	0.75
2:AA:2874:C:H3'	2:AA:2874:C:OP2	1.87	0.75
3:AC:26:ALA:HB1	3:AC:185:LEU:CD1	2.16	0.75
3:AC:89:ALA:HA	3:AC:154:ARG:HH12	1.51	0.75
3:AC:149:ILE:O	3:AC:153:ILE:HG13	1.86	0.75
4:AD:208:GLY:H	4:AD:211:HIS:HE2	0.78	0.75
6:AF:28:SER:HA	6:AF:31:ILE:HD12	1.67	0.75
6:AF:93:LYS:O	6:AF:98:ARG:NH2	2.20	0.75
6:AF:202:THR:O	6:AF:204:ALA:N	2.20	0.75
8:AH:121:GLU:CD	8:AH:121:GLU:N	2.42	0.75
9:AI:115:LYS:NZ	9:AI:127:LEU:HD13	2.02	0.75
10:AK:47:LEU:HG	10:AK:48:GLU:H	1.52	0.75
11:AL:55:PRO:CG	11:AL:73:PRO:HA	2.16	0.75
11:AL:114:PRO:C	11:AL:116:LEU:H	1.94	0.75
13:AN:58:VAL:HG12	13:AN:59:LYS:N	1.99	0.75
13:AN:89:ASP:O	13:AN:91:LYS:N	2.20	0.75
16:AQ:12:ARG:NH1	16:AQ:20:TYR:CE2	2.54	0.75
20:AU:65:VAL:HG13	20:AU:72:ILE:HD11	1.68	0.75
21:AV:120:LEU:HD23	21:AV:120:LEU:H	1.51	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:51:LEU:HD23	24:A0:66:VAL:CG2	2.15	0.75
24:A0:90:ARG:HB2	24:A0:94:TYR:CE2	2.21	0.75
28:A4:68:ARG:NH1	28:A4:72:LYS:HE2	2.02	0.75
34:BA:187:C:N3	55:BW:105:SER:HB3	2.00	0.75
34:BA:742:G:O2'	34:BA:743:U:H5'	1.85	0.75
34:BA:790:A:N6	34:BA:791:G:N1	2.35	0.75
34:BA:818:G:H3'	34:BA:819:A:C5'	2.15	0.75
34:BA:1007:C:C4	34:BA:1022:G:N1	2.54	0.75
34:BA:1342:C:H1'	44:BL:124:GLN:HB2	1.68	0.75
38:BF:152:ILE:HD12	38:BF:201:TYR:HE1	1.51	0.75
39:BG:19:LEU:HD22	39:BG:21:LEU:HD11	1.67	0.75
39:BG:173:TRP:HD1	39:BG:185:PHE:HE2	1.35	0.75
39:BG:192:GLU:N	39:BG:192:GLU:OE1	2.19	0.75
40:BH:61:TYR:HA	40:BH:64:ARG:CG	2.16	0.75
41:BI:10:LEU:HD12	41:BI:10:LEU:N	2.02	0.75
43:BK:22:GLU:O	43:BK:62:TYR:HA	1.86	0.75
46:BN:53:SER:O	46:BN:55:LYS:N	2.18	0.75
46:BN:85:ARG:HG3	46:BN:85:ARG:HH11	1.50	0.75
49:BQ:13:THR:HG22	49:BQ:13:THR:O	1.87	0.75
49:BQ:47:LEU:O	49:BQ:50:LYS:HB2	1.86	0.75
54:BV:5:LEU:HD12	54:BV:9:VAL:CG1	2.15	0.75
54:BV:77:THR:HG22	54:BV:78:ARG:N	2.00	0.75
55:BW:86:ARG:CG	55:BW:87:LYS:N	2.48	0.75
2:AA:299:A:N1	2:AA:322:A:N7	2.35	0.75
2:AA:463:G:N2	2:AA:467:G:C8	2.54	0.75
2:AA:689:A:H2'	2:AA:690:G:O4'	1.87	0.75
2:AA:723:G:H2'	2:AA:724:U:H6	1.51	0.75
2:AA:856:C:OP1	27:A3:57:HIS:HE1	1.68	0.75
2:AA:1023:U:OP2	2:AA:1025:G:N1	2.19	0.75
2:AA:1061:U:H4'	2:AA:1070:A:O4'	1.85	0.75
2:AA:1137:G:C6	2:AA:1138:G:H1'	2.21	0.75
2:AA:1148:A:N1	2:AA:1149:G:C6	2.55	0.75
2:AA:1301:A:N7	2:AA:1303:G:O4'	2.20	0.75
2:AA:1341:U:O2'	19:AT:53:ASN:HB3	1.86	0.75
2:AA:1539:G:H2'	2:AA:1540:G:C8	2.21	0.75
2:AA:1900:A:H2	2:AA:1970:A:C6	2.04	0.75
2:AA:2135:A:N6	2:AA:2150:U:H3'	1.99	0.75
2:AA:2369:A:H2'	2:AA:2370:G:C8	2.16	0.75
2:AA:2637:U:H2'	2:AA:2638:G:O4'	1.85	0.75
2:AA:2785:C:H4'	5:AE:99:VAL:CB	2.16	0.75
2:AA:2821:A:OP2	2:AA:2822:G:P	2.45	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2864:G:H2'	2:AA:2865:U:C6	2.20	0.75
2:AA:2882:A:OP1	24:A0:96:ARG:CD	2.35	0.75
3:AC:190:ARG:HA	3:AC:193:ILE:HD12	1.68	0.75
4:AD:157:ALA:O	4:AD:194:VAL:HG11	1.87	0.75
5:AE:205:THR:CG2	5:AE:259:HIS:HB2	2.16	0.75
6:AF:2:GLU:C	6:AF:18:LEU:HD21	2.11	0.75
6:AF:165:ASP:O	6:AF:168:ARG:HB3	1.86	0.75
8:AH:86:LEU:HD12	8:AH:130:ILE:HB	1.68	0.75
9:AI:52:ALA:HB1	9:AI:58:GLU:HB2	1.67	0.75
12:AM:39:VAL:O	12:AM:40:ASN:CG	2.30	0.75
13:AN:43:VAL:CB	13:AN:56:GLN:H	1.99	0.75
15:AP:84:ARG:NH2	15:AP:86:ARG:NH2	2.34	0.75
18:AS:8:ARG:HG3	18:AS:102:HIS:CE1	2.22	0.75
21:AV:71:MET:HG2	21:AV:78:PRO:HG3	1.69	0.75
21:AV:143:ILE:HG22	21:AV:144:GLY:N	2.01	0.75
24:A0:86:ARG:NH1	24:A0:86:ARG:CB	2.50	0.75
25:A1:50:ARG:NH2	26:A2:73:LYS:O	2.19	0.75
30:A6:54:LYS:HA	30:A6:54:LYS:NZ	2.00	0.75
34:BA:68:G:H5'	34:BA:171:A:C1'	2.15	0.75
34:BA:437:U:H2'	34:BA:438:G:C5'	2.16	0.75
34:BA:707:C:H4'	46:BN:20:TYR:CD2	2.21	0.75
34:BA:764:C:C2'	34:BA:765:G:C8	2.70	0.75
34:BA:966:G:H2'	34:BA:967:C:C6	2.21	0.75
34:BA:1086:U:O2	34:BA:1099:G:N2	2.19	0.75
34:BA:1367:C:OP1	44:BL:115:GLY:N	2.17	0.75
35:BB:40:C:C3'	35:BB:41:U:H5'	2.16	0.75
35:BC:3:G:N2	35:BC:71:G:H1'	2.02	0.75
38:BF:26:LYS:HD3	38:BF:26:LYS:N	2.00	0.75
42:BJ:104:LEU:CD2	42:BJ:104:LEU:N	2.46	0.75
48:BP:20:THR:HA	48:BP:25:ILE:HB	1.68	0.75
49:BQ:26:ARG:HD3	49:BQ:43:CYS:HB3	1.67	0.75
55:BW:73:HIS:O	55:BW:76:ALA:HB3	1.87	0.75
1:AB:80:U:H4'	2:AA:918:A:C8	2.21	0.75
2:AA:67:U:H2'	2:AA:68:G:H8	1.50	0.75
2:AA:107:C:H4'	2:AA:293:U:O2	1.87	0.75
2:AA:408:G:O2'	2:AA:409:C:H5'	1.87	0.75
2:AA:935:C:O2'	2:AA:936:C:O5'	2.02	0.75
2:AA:979:G:N7	2:AA:981:A:OP2	2.20	0.75
2:AA:2103:C:O2'	2:AA:2104:G:H5'	1.87	0.75
2:AA:2143:C:OP2	2:AA:2143:C:H6	1.70	0.75
2:AA:2547:U:C5	2:AA:2566:A:C5	2.75	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2623:G:H4'	2:AA:2826:A:H1'	1.67	0.75
3:AC:48:GLY:HA3	3:AC:210:ARG:NH1	2.01	0.75
4:AD:63:ILE:HD13	4:AD:86:ARG:NH2	2.00	0.75
4:AD:76:ARG:CB	4:AD:113:MET:HB3	2.16	0.75
6:AF:151:GLN:HA	6:AF:154:VAL:CG2	2.16	0.75
7:AG:93:LEU:HB2	7:AG:97:GLN:OE1	1.85	0.75
9:AJ:91:LEU:HD23	9:AJ:94:LYS:HD2	1.68	0.75
10:AK:63:ALA:HA	10:AK:66:LYS:HE3	1.69	0.75
13:AN:98:ILE:CG2	13:AN:119:PRO:HD3	2.16	0.75
14:AO:65:ASP:CA	14:AO:108:VAL:HG13	2.14	0.75
15:AP:35:ASN:N	15:AP:76:GLY:H	1.84	0.75
16:AQ:59:ALA:HB3	16:AQ:91:ARG:NH2	2.02	0.75
22:AW:30:ALA:CA	22:AW:34:GLN:HG2	2.16	0.75
23:AX:12:PRO:HB2	23:AX:20:LYS:HE2	1.66	0.75
23:AX:40:THR:OG1	23:AX:43:ILE:HD13	1.86	0.75
24:A0:67:LEU:HD21	24:A0:72:ASP:N	2.01	0.75
24:A0:83:ILE:CA	24:A0:86:ARG:HG3	2.17	0.75
31:A7:6:GLN:H	31:A7:6:GLN:NE2	1.85	0.75
33:A9:7:VAL:HG22	33:A9:34:GLN:CG	2.17	0.75
34:BA:262:A:H2'	34:BA:263:A:C8	2.22	0.75
34:BA:752:G:O4'	34:BA:752:G:OP2	2.05	0.75
34:BA:982:U:H1'	34:BA:983:A:N6	2.01	0.75
34:BA:1119:C:H2'	34:BA:1120:G:C8	2.21	0.75
34:BA:1519:A:H2'	34:BA:1520:G:H5'	1.69	0.75
36:B1:48:A:H2'	36:B1:49:A:C8	2.22	0.75
38:BF:91:LEU:HD21	38:BF:98:ASN:HA	1.68	0.75
42:BJ:14:PRO:HB2	42:BJ:19:GLY:C	2.10	0.75
45:BM:16:LEU:CD2	45:BM:94:VAL:HG22	2.15	0.75
47:BO:45:PRO:HB2	47:BO:49:ASN:O	1.86	0.75
48:BP:29:ARG:CZ	48:BP:64:TRP:NE1	2.50	0.75
51:BS:19:ILE:HB	51:BS:37:GLY:C	2.11	0.75
55:BW:33:ILE:HD13	55:BW:63:ILE:HA	1.68	0.75
2:AA:220:G:H22	2:AA:427:U:H2'	1.50	0.75
2:AA:777:A:N1	2:AA:787:U:C4	2.55	0.75
2:AA:830:G:C5	2:AA:2448:A:N7	2.54	0.75
2:AA:954:G:O2'	2:AA:2274:A:N1	2.18	0.75
2:AA:1394:U:H4'	2:AA:1603:A:C5'	2.15	0.75
2:AA:1420:U:H1'	2:AA:1421:G:N7	2.02	0.75
2:AA:1498:C:O2	2:AA:1499:C:C4	2.40	0.75
2:AA:1563:G:C4	2:AA:1564:C:C5	2.75	0.75
2:AA:1609:A:C8	2:AA:1616:A:H1'	2.22	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1645:G:H5'	2:AA:1646:C:O4'	1.87	0.75
2:AA:1663:C:N4	2:AA:1992:G:C8	2.55	0.75
2:AA:1699:G:H2'	2:AA:1700:A:H4'	1.68	0.75
2:AA:1790:C:H5''	2:AA:1828:G:C2	2.21	0.75
2:AA:1923:U:H2'	2:AA:1924:C:C6	2.22	0.75
2:AA:1992:G:H22	2:AA:1995:U:H5	1.33	0.75
2:AA:2254:C:H2'	2:AA:2255:G:H5'	1.68	0.75
2:AA:2310:A:C2'	7:AG:55:LYS:HE2	2.13	0.75
2:AA:2447:G:O2'	2:AA:2448:A:OP2	2.03	0.75
5:AE:300:VAL:O	5:AE:302:GLY:N	2.20	0.75
6:AF:195:VAL:HG11	6:AF:235:PHE:HD2	1.49	0.75
7:AG:36:ASN:O	7:AG:39:ASP:N	2.20	0.75
7:AG:104:PHE:N	7:AG:104:PHE:CD1	2.55	0.75
8:AH:104:LEU:HD12	8:AH:104:LEU:N	2.01	0.75
9:AI:64:LYS:HE2	9:AI:126:GLU:HB3	1.67	0.75
10:AK:88:ARG:HE	10:AK:123:ALA:HB2	1.52	0.75
10:AK:124:LEU:HD21	10:AK:147:GLU:H	1.52	0.75
11:AL:129:GLU:CG	11:AL:133:LYS:HE3	2.16	0.75
13:AN:63:VAL:CG1	13:AN:102:VAL:HG13	2.10	0.75
15:AP:17:ARG:CA	15:AP:22:GLY:HA3	2.17	0.75
15:AP:36:ASN:HB2	21:AV:114:ASP:OD1	1.85	0.75
15:AP:82:LYS:HD3	15:AP:84:ARG:HE	1.52	0.75
16:AQ:19:ASP:HB2	16:AQ:22:GLN:CD	2.11	0.75
17:AR:50:GLU:HA	17:AR:55:ALA:HB3	1.68	0.75
18:AS:84:ARG:O	18:AS:95:ILE:HA	1.87	0.75
18:AS:90:ARG:CZ	18:AS:90:ARG:CB	2.63	0.75
21:AV:41:ARG:H	21:AV:41:ARG:HE	1.33	0.75
21:AV:64:ALA:CB	21:AV:84:TYR:O	2.33	0.75
21:AV:68:ALA:HB3	21:AV:82:ASP:OD2	1.87	0.75
27:A3:19:LYS:HD3	27:A3:21:LEU:HD21	1.69	0.75
27:A3:68:VAL:O	27:A3:68:VAL:HG12	1.86	0.75
34:BA:173:U:H5'	34:BA:197:A:O4'	1.85	0.75
34:BA:775:G:N2	34:BA:804:U:O4	2.18	0.75
34:BA:895:G:H2'	34:BA:896:C:C6	2.21	0.75
34:BA:968:A:C5'	34:BA:969:A:OP2	2.33	0.75
34:BA:1347:G:C3'	44:BL:108:VAL:HA	2.11	0.75
36:B1:70:U:H4'	36:B1:71:A:OP1	1.86	0.75
37:BE:74:LYS:HG2	37:BE:76:GLN:HB2	1.67	0.75
37:BE:112:VAL:HG12	37:BE:116:GLU:OE2	1.87	0.75
38:BF:84:ILE:CD1	38:BF:101:LEU:HD22	2.17	0.75
40:BH:78:HIS:CB	43:BK:107:LEU:HD11	2.17	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:100:VAL:CG1	40:BH:107:ARG:HG3	2.16	0.75
41:BI:95:GLU:CD	41:BI:95:GLU:H	1.92	0.75
42:BJ:129:GLU:CB	42:BJ:131:LYS:HG2	2.17	0.75
50:BR:15:PHE:CE2	50:BR:30:ALA:HB2	2.21	0.75
1:AB:16:G:H22	1:AB:69:G:H1'	1.51	0.75
1:AB:17:C:H2'	1:AB:18:G:C8	2.21	0.75
1:AB:83:G:C4'	23:AX:52:HIS:HD2	1.99	0.75
2:AA:54:G:H1'	31:A7:35:ARG:NH2	2.01	0.75
2:AA:237:C:H2'	2:AA:238:C:H6	1.52	0.75
2:AA:270(J):G:N2	2:AA:270(K):C:H1'	2.02	0.75
2:AA:287:C:N3	2:AA:353:G:O6	2.20	0.75
2:AA:310:A:P	20:AU:53:GLY:H	2.10	0.75
2:AA:447:A:C1'	2:AA:449:A:N6	2.21	0.75
2:AA:487:C:N4	2:AA:493:G:H1	1.83	0.75
2:AA:600:G:H5''	6:AF:27:ARG:NH1	2.01	0.75
2:AA:734:A:H2	2:AA:735:A:H1'	1.51	0.75
2:AA:1181:C:O2'	2:AA:1182:A:O5'	2.04	0.75
2:AA:1656:C:OP1	5:AE:212:GLY:HA3	1.87	0.75
2:AA:1791:A:N1	2:AA:1829:A:O4'	2.20	0.75
2:AA:2552:U:O2	2:AA:2554:U:H5''	1.87	0.75
2:AA:2564:A:O2'	2:AA:2565:A:H5'	1.87	0.75
2:AA:2573:C:H3'	2:AA:2573:C:C6	2.22	0.75
2:AA:2745:C:H42	2:AA:2759:G:H1	1.34	0.75
2:AA:2809:A:C4'	2:AA:2811:G:N7	2.50	0.75
3:AC:36:LYS:HZ2	3:AC:36:LYS:CA	1.99	0.75
7:AG:63:ILE:O	7:AG:65:GLU:N	2.20	0.75
8:AH:43:THR:HG22	8:AH:52:THR:CG2	2.17	0.75
8:AH:70:LEU:HA	8:AH:73:ASN:ND2	2.02	0.75
10:AK:6:LEU:HD22	10:AK:14:LYS:CD	2.16	0.75
12:AM:58:GLU:O	12:AM:61:VAL:N	2.20	0.75
15:AP:82:LYS:HB2	15:AP:125:TRP:H	1.49	0.75
16:AQ:11:ARG:HA	16:AQ:14:ARG:NH1	2.02	0.75
16:AQ:30:GLY:O	16:AQ:31:LYS:HB2	1.85	0.75
16:AQ:61:ALA:HB2	16:AQ:88:ALA:CB	2.06	0.75
20:AU:71:VAL:CG2	20:AU:92:ASP:HA	2.15	0.75
21:AV:75:LYS:HE3	21:AV:77:ALA:HB3	1.68	0.75
24:A0:97:VAL:C	24:A0:98:LEU:HG	2.11	0.75
27:A3:59:LEU:C	27:A3:81:ILE:HG12	2.12	0.75
29:A5:57:VAL:CG1	29:A5:58:LEU:H	1.98	0.75
34:BA:133:U:H3	34:BA:229:U:H3	1.35	0.75
34:BA:152:A:C8	34:BA:153:C:C5	2.75	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:683:G:H2'	34:BA:684:A:C8	2.21	0.75
34:BA:736:C:OP1	53:BU:72:ARG:NH2	2.20	0.75
34:BA:840:C:H5''	34:BA:841:U:O5'	1.85	0.75
34:BA:1412:C:H2'	34:BA:1413:A:H8	1.52	0.75
35:BB:22:G:C4	35:BB:23:A:N7	2.55	0.75
35:BB:33:U:C4	35:BB:35:A:OP1	2.40	0.75
35:BB:49:C:N3	35:BB:65:G:N2	2.35	0.75
35:BC:8:U:C5	35:BC:13:C:N4	2.54	0.75
37:BE:71:VAL:HG13	37:BE:93:VAL:O	1.87	0.75
37:BE:101:MET:HA	37:BE:108:ILE:CG1	2.17	0.75
37:BE:102:LEU:HD22	37:BE:176:GLU:CB	2.14	0.75
38:BF:12:LEU:HD13	38:BF:17:ASP:HA	1.69	0.75
38:BF:26:LYS:O	38:BF:28:GLN:HG3	1.87	0.75
43:BK:4:ASP:OD1	43:BK:6:ILE:HG22	1.87	0.75
44:BL:93:ARG:HH22	44:BL:102:LEU:HD13	1.50	0.75
45:BM:49:VAL:HG12	45:BM:50:ILE:N	2.01	0.75
46:BN:18:ARG:NH2	46:BN:37:GLY:HA2	2.01	0.75
48:BP:6:GLY:O	48:BP:8:GLU:N	2.19	0.75
48:BP:23:TYR:HB3	48:BP:67:GLU:CA	2.17	0.75
49:BQ:27:CYS:O	49:BQ:29:ARG:N	2.19	0.75
49:BQ:40:CYS:O	49:BQ:44:LEU:HB3	1.87	0.75
51:BS:4:ILE:HG12	51:BS:65:GLN:O	1.87	0.75
52:BT:8:GLY:O	52:BT:56:VAL:HA	1.86	0.75
52:BT:61:GLU:HA	52:BT:71:PHE:CD1	2.22	0.75
1:AB:12:C:C5	27:A3:53:MET:CA	2.67	0.75
2:AA:226:G:H21	2:AA:227:A:H1'	1.52	0.75
2:AA:270(C):C:C4	2:AA:270(W):G:N1	2.55	0.75
2:AA:374:A:C2	2:AA:375:C:H1'	2.22	0.75
2:AA:397:G:OP1	28:A4:41:PRO:HG3	1.86	0.75
2:AA:729:G:C6	2:AA:1775:U:N3	2.55	0.75
2:AA:796:C:H2'	2:AA:797:C:H6	1.51	0.75
2:AA:928:G:N2	2:AA:929:G:H1	1.85	0.75
2:AA:1085:A:P	9:AI:36:PRO:HD2	2.26	0.75
2:AA:1240:U:C3'	2:AA:1241:A:H8	1.97	0.75
2:AA:1476:C:H5	2:AA:1477:A:C2	2.05	0.75
2:AA:1491:G:O2'	2:AA:1492:G:O4'	2.05	0.75
2:AA:1521:G:H3'	2:AA:1522:G:H8	1.52	0.75
2:AA:1602:U:N3	2:AA:1602:U:OP2	2.20	0.75
2:AA:1647:G:H3'	2:AA:1647:G:OP2	1.87	0.75
2:AA:2025:C:H2'	2:AA:2026:C:C6	2.21	0.75
2:AA:2118:U:H3'	2:AA:2118:U:C6	2.21	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2377:A:H2'	2:AA:2378:A:C8	2.21	0.75
2:AA:2436:G:C6	2:AA:2437:U:C4	2.74	0.75
4:AD:208:GLY:HA3	4:AD:210:LYS:CE	2.16	0.75
8:AH:34:ARG:HG2	8:AH:35:THR:N	2.01	0.75
9:AJ:78:ARG:HG2	9:AJ:88:ALA:HB1	1.69	0.75
15:AP:48:ASN:OD1	15:AP:121:ASP:HB3	1.87	0.75
18:AS:6:ILE:HA	18:AS:103:ILE:O	1.86	0.75
18:AS:73:ALA:HB3	18:AS:106:ILE:CD1	2.17	0.75
20:AU:73:HIS:CE1	20:AU:90:PRO:HA	2.20	0.75
24:A0:58:GLY:HA2	24:A0:80:PHE:CZ	2.21	0.75
25:A1:29:SER:OG	25:A1:30:LYS:HD2	1.87	0.75
26:A2:40:VAL:HB	26:A2:51:ALA:HB1	1.67	0.75
26:A2:87:ARG:HH11	26:A2:87:ARG:HB3	1.50	0.75
27:A3:49:GLN:NE2	27:A3:49:GLN:N	2.28	0.75
28:A4:17:GLN:HG2	28:A4:34:ASP:N	2.02	0.75
28:A4:65:ASP:O	28:A4:66:SER:C	2.29	0.75
34:BA:22:G:H2'	34:BA:23:C:O4'	1.87	0.75
34:BA:274:A:O2'	34:BA:275:G:O4'	2.05	0.75
34:BA:277:C:H5''	52:BT:68:ARG:HH22	1.49	0.75
34:BA:416:G:H2'	34:BA:417:C:C6	2.22	0.75
34:BA:766:A:C8	34:BA:814:A:N1	2.55	0.75
34:BA:1259:C:N4	34:BA:1276:G:H1	1.85	0.75
34:BA:1407:C:C2'	34:BA:1408:A:H5'	2.17	0.75
35:BB:11:C:C4	35:BB:12:U:O4	2.39	0.75
36:B1:41:U:H2'	36:B1:42:G:C8	2.22	0.75
37:BE:163:PHE:HA	37:BE:185:ILE:O	1.86	0.75
38:BF:70:VAL:O	38:BF:106:VAL:HG23	1.86	0.75
42:BJ:34:GLY:O	42:BJ:36:LYS:N	2.19	0.75
43:BK:18:ARG:HH22	43:BK:78:GLN:HG3	1.50	0.75
50:BR:74:ASP:OD2	50:BR:76:GLU:HB3	1.87	0.75
55:BW:50:GLU:CA	55:BW:99:LEU:HB2	2.17	0.75
2:AA:69:C:O2	2:AA:69:C:H2'	1.87	0.74
2:AA:182:A:H2'	2:AA:183:C:C6	2.22	0.74
2:AA:327:G:H2'	2:AA:328:U:H5'	1.67	0.74
2:AA:371:A:O2'	2:AA:372:G:P	2.45	0.74
2:AA:489:G:C2	2:AA:491:G:C4	2.75	0.74
2:AA:596:G:H2'	2:AA:597:U:O4'	1.87	0.74
2:AA:673:C:OP1	6:AF:81:PRO:HG2	1.86	0.74
2:AA:803:U:H2'	2:AA:804:A:H5'	1.68	0.74
2:AA:1022:G:N3	2:AA:1139:G:N2	2.35	0.74
2:AA:1089:G:H8	2:AA:1089:G:O5'	1.68	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1108:U:C4	2:AA:1109:C:C4	2.75	0.74
2:AA:1245:G:O2'	2:AA:1246:A:H5'	1.86	0.74
2:AA:1302:A:H5''	2:AA:1303:G:OP2	1.87	0.74
2:AA:1363:C:O2	2:AA:1363:C:C2'	2.35	0.74
2:AA:1414:G:H1	2:AA:1588:C:H42	1.31	0.74
2:AA:1842:G:H2'	2:AA:1843:C:O4'	1.85	0.74
2:AA:1872:A:H2'	2:AA:1878:G:C5'	2.17	0.74
2:AA:1999:C:N3	2:AA:2000:G:C8	2.55	0.74
2:AA:2027:G:H1'	2:AA:2037:G:N2	2.02	0.74
2:AA:2195:C:C2'	2:AA:2196:C:O4'	2.33	0.74
2:AA:2218:G:C4'	4:AD:147:PRO:HG3	2.16	0.74
2:AA:2354:G:O2'	27:A3:31:VAL:CG1	2.34	0.74
2:AA:2356:C:OP1	27:A3:21:LEU:HD21	1.85	0.74
2:AA:2396:G:O2'	28:A4:27:THR:HG22	1.87	0.74
2:AA:2476:A:N7	2:AA:2477:C:H5	1.83	0.74
2:AA:2682:U:O2'	2:AA:2683:C:H5'	1.86	0.74
3:AC:5:LYS:O	3:AC:6:ARG:HG2	1.87	0.74
5:AE:85:ALA:HB3	5:AE:87:GLU:OE2	1.86	0.74
7:AG:19:GLU:CD	7:AG:135:VAL:HG22	2.12	0.74
7:AG:26:GLY:O	7:AG:53:LYS:NZ	2.20	0.74
8:AH:167:LEU:CG	8:AH:169:ARG:HH12	1.99	0.74
9:AI:42:ALA:HB3	9:AI:43:PRO:HD3	1.67	0.74
10:AK:89:LEU:O	10:AK:122:ARG:NE	2.18	0.74
10:AK:136:GLU:N	10:AK:136:GLU:OE1	2.20	0.74
12:AM:88:PRO:O	12:AM:94:GLY:HA3	1.86	0.74
13:AN:63:VAL:HG23	13:AN:84:CYS:HA	1.68	0.74
19:AT:28:VAL:HG11	19:AT:64:ALA:HB3	1.69	0.74
26:A2:69:ILE:HG23	26:A2:89:ASN:C	2.12	0.74
32:A8:5:LYS:HD2	32:A8:5:LYS:N	2.02	0.74
34:BA:50:A:O2'	34:BA:52:G:N7	2.19	0.74
34:BA:296:U:C4	34:BA:297:G:N7	2.55	0.74
34:BA:366:C:O2'	34:BA:367:U:OP1	2.05	0.74
34:BA:745:C:H2'	34:BA:746:A:C8	2.21	0.74
34:BA:917:G:O2'	34:BA:918:A:H5'	1.87	0.74
34:BA:996:A:N1	34:BA:997:U:C4	2.54	0.74
34:BA:1108:G:N7	34:BA:1109:C:C5	2.56	0.74
34:BA:1298:C:H4'	34:BA:1299:A:C2	2.22	0.74
39:BG:192:GLU:H	39:BG:192:GLU:CD	1.94	0.74
40:BH:107:ARG:O	40:BH:108:ALA:C	2.30	0.74
44:BL:111:ARG:HD2	49:BQ:61:TRP:NE1	2.02	0.74
47:BO:70:ILE:HG21	47:BO:77:LEU:HD11	1.67	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:60:VAL:CA	48:BP:63:THR:HG22	2.17	0.74
50:BR:18:PHE:CE1	50:BR:21:ASP:HB2	2.22	0.74
50:BR:61:GLY:O	50:BR:64:ARG:HG2	1.86	0.74
52:BT:6:LEU:HB2	52:BT:23:VAL:HG21	1.69	0.74
54:BV:64:GLU:CG	54:BV:65:ASN:H	1.98	0.74
2:AA:71:A:C4'	2:AA:72:U:H5''	2.16	0.74
2:AA:148:C:H2'	2:AA:149:A:C8	2.22	0.74
2:AA:343:C:H2'	2:AA:344:G:C5'	2.17	0.74
2:AA:492:A:H2'	2:AA:493:G:O4'	1.86	0.74
2:AA:530:G:O2'	2:AA:531:C:O5'	2.04	0.74
2:AA:679:C:N4	2:AA:798:G:H1	1.84	0.74
2:AA:974:G:O5'	2:AA:974(A):C:OP1	2.05	0.74
2:AA:997:G:O2'	2:AA:998:C:C5'	2.34	0.74
2:AA:1085:A:C1'	2:AA:1086:A:H4'	2.06	0.74
2:AA:1551:C:H2'	2:AA:1552:G:H8	1.51	0.74
2:AA:1796:U:O4	2:AA:1823:G:O6	2.05	0.74
2:AA:1963:U:O2	2:AA:1963:U:H2'	1.85	0.74
2:AA:2137:C:N4	2:AA:2155:G:O2'	2.19	0.74
2:AA:2294:C:H2'	2:AA:2294:C:O2	1.86	0.74
2:AA:2744:G:O2'	2:AA:2745:C:H5'	1.86	0.74
2:AA:2791:C:H2'	2:AA:2792:G:C8	2.21	0.74
3:AC:36:LYS:HG3	3:AC:37:PHE:CD2	2.20	0.74
4:AD:63:ILE:O	4:AD:64:ILE:HG13	1.86	0.74
5:AE:194:ARG:HG3	5:AE:197:GLU:OE1	1.88	0.74
5:AE:201:VAL:H	5:AE:266:LYS:HD2	1.47	0.74
8:AH:87:GLU:HG3	8:AH:162:ARG:O	1.87	0.74
10:AK:66:LYS:HA	10:AK:69:LYS:HB3	1.68	0.74
12:AM:8:ALA:HB1	12:AM:11:ILE:HD11	1.70	0.74
14:AO:52:LYS:HE2	14:AO:53:ARG:NH2	2.02	0.74
17:AR:34:SER:O	17:AR:37:GLU:HB3	1.86	0.74
18:AS:46:PHE:O	18:AS:50:VAL:HG23	1.87	0.74
21:AV:40:ASP:O	21:AV:44:ARG:CG	2.34	0.74
23:AX:52:HIS:O	23:AX:54:VAL:N	2.20	0.74
25:A1:59:ARG:O	25:A1:62:ILE:HB	1.86	0.74
25:A1:79:PHE:C	25:A1:83:LEU:HD12	2.12	0.74
25:A1:96:ALA:O	25:A1:99:ALA:N	2.20	0.74
26:A2:31:ASP:O	26:A2:33:VAL:HG23	1.86	0.74
34:BA:409:G:H2'	34:BA:410:G:H8	1.52	0.74
34:BA:421:U:H5''	34:BA:422:C:H5	1.50	0.74
34:BA:579:G:O2'	34:BA:580:U:H5'	1.87	0.74
34:BA:583:A:H2'	34:BA:584:G:O4'	1.87	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:626:U:H5''	51:BS:38:TYR:CD2	2.22	0.74
34:BA:694:A:H2'	34:BA:695:A:O5'	1.87	0.74
34:BA:764:C:C3'	34:BA:765:G:H8	1.99	0.74
34:BA:781:A:O2'	34:BA:782:A:H5'	1.87	0.74
34:BA:1053:G:H5'	34:BA:1054:C:C5'	2.16	0.74
34:BA:1164:G:N1	34:BA:1172:C:N4	2.16	0.74
34:BA:1231:G:H2'	34:BA:1232:U:H6	1.49	0.74
34:BA:1263:C:O2'	34:BA:1264:C:H5'	1.87	0.74
35:BB:50:U:O5'	35:BB:50:U:H6	1.69	0.74
36:B1:17:G:O6	36:B1:37:C:N3	2.19	0.74
42:BJ:140:ASP:HA	42:BJ:143:ARG:HD2	1.68	0.74
44:BL:47:LEU:HD13	44:BL:47:LEU:O	1.88	0.74
51:BS:26:ARG:NH2	51:BS:31:LYS:HE3	2.02	0.74
55:BW:51:GLU:HA	55:BW:54:LYS:CG	2.16	0.74
2:AA:137(A):G:O6	2:AA:139:G:C6	2.40	0.74
2:AA:287:C:O2	2:AA:353:G:N1	2.20	0.74
2:AA:401:A:N6	2:AA:423:A:C2	2.55	0.74
2:AA:530:G:O2'	2:AA:531:C:C5'	2.36	0.74
2:AA:579:G:H5''	2:AA:2018:G:H5''	1.69	0.74
2:AA:698:C:C5'	2:AA:698:C:H6	2.00	0.74
2:AA:774:A:H5'	2:AA:778:G:H4'	1.67	0.74
2:AA:785:G:H2'	2:AA:785:G:N3	1.99	0.74
2:AA:806:C:H2'	2:AA:807:U:C6	2.22	0.74
2:AA:911:A:H8	2:AA:2264:C:H1'	1.46	0.74
2:AA:1047:G:N2	2:AA:1111:A:C6	2.55	0.74
2:AA:1080:C:H4'	11:AL:126:LYS:HB3	1.69	0.74
2:AA:1514:U:H2'	2:AA:1514:U:O2	1.86	0.74
2:AA:1566:A:C2	4:AD:212:HIS:CG	2.74	0.74
2:AA:1943:U:H1'	2:AA:1945:G:H5''	1.70	0.74
2:AA:1953:A:N6	2:AA:2550:G:H4'	2.01	0.74
2:AA:2038:G:O5'	2:AA:2038:G:H8	1.68	0.74
2:AA:2052:G:H21	5:AE:245:ARG:HB3	1.52	0.74
2:AA:2110:G:H8	2:AA:2120:G:OP2	1.68	0.74
2:AA:2130:U:OP1	2:AA:2130:U:H4'	1.86	0.74
2:AA:2416:C:C2'	2:AA:2417:C:H5''	2.17	0.74
2:AA:2442:C:O2'	2:AA:2443:C:H5'	1.86	0.74
2:AA:2729:G:N3	5:AE:300:VAL:HG21	2.01	0.74
2:AA:2805:G:C8	2:AA:2807:G:O4'	2.40	0.74
2:AA:2880:C:O2'	24:A0:90:ARG:HD2	1.87	0.74
6:AF:102:LEU:CB	6:AF:107:ARG:HE	1.99	0.74
6:AF:167:ASP:HB3	6:AF:232:LEU:N	2.02	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:20:LYS:HE2	7:AG:76:ARG:HE	1.52	0.74
8:AH:40:MET:N	8:AH:40:MET:SD	2.60	0.74
9:AJ:115:LYS:NZ	9:AJ:127:LEU:HD13	2.02	0.74
11:AL:11:LEU:CD1	11:AL:58:ILE:HD12	2.17	0.74
12:AM:25:GLN:O	12:AM:26:VAL:C	2.28	0.74
13:AN:13:ASN:O	13:AN:15:GLY:N	2.20	0.74
17:AR:52:THR:O	17:AR:56:ARG:HA	1.87	0.74
21:AV:62:PHE:CE2	21:AV:87:THR:HB	2.23	0.74
28:A4:7:PRO:HD2	28:A4:56:VAL:HG22	1.68	0.74
34:BA:371:G:C2'	34:BA:372:C:H5'	2.16	0.74
34:BA:537:G:O2'	34:BA:538:G:H5'	1.87	0.74
34:BA:559:A:H4'	34:BA:560:U:O5'	1.87	0.74
34:BA:583:A:H2'	34:BA:584:G:H8	1.51	0.74
34:BA:642:A:O2'	43:BK:31:PHE:HE1	1.69	0.74
34:BA:872:A:O2'	34:BA:873:A:OP1	2.05	0.74
34:BA:1236:A:H5''	34:BA:1304:G:H5''	1.69	0.74
34:BA:1246:C:O2	34:BA:1291:G:N1	2.19	0.74
34:BA:1278:U:H5''	34:BA:1279:A:H5'	1.69	0.74
35:BB:72:C:O2'	35:BB:73:A:H5'	1.87	0.74
40:BH:43:LEU:HD23	40:BH:44:GLY:H	1.53	0.74
40:BH:84:PHE:CB	40:BH:134:ALA:HB2	2.17	0.74
41:BI:79:LEU:O	41:BI:80:ARG:C	2.28	0.74
44:BL:118:LYS:C	44:BL:120:ARG:H	1.94	0.74
2:AA:245:G:OP1	14:AO:53:ARG:CD	2.34	0.74
2:AA:308:G:H21	2:AA:329:G:N2	1.85	0.74
2:AA:447:A:C6	2:AA:454:A:N7	2.55	0.74
2:AA:530:G:O6	2:AA:2021:C:H3'	1.87	0.74
2:AA:530:G:N2	2:AA:2020:A:O2'	2.21	0.74
2:AA:532:A:O3'	25:A1:25:TRP:HD1	1.70	0.74
2:AA:939:G:O2'	2:AA:940:G:H5'	1.87	0.74
2:AA:989:G:N2	2:AA:990:A:H62	1.86	0.74
2:AA:1084:A:C2	9:AI:29:PHE:CE1	2.76	0.74
2:AA:1084:A:N1	2:AA:1085:A:N1	2.35	0.74
2:AA:1359:A:H2'	2:AA:1360:A:H5'	1.69	0.74
2:AA:1373:A:H2'	2:AA:1374:G:H8	1.52	0.74
2:AA:1529:A:N6	2:AA:1542:G:H22	1.85	0.74
2:AA:1869:G:N3	2:AA:1878:G:O6	2.21	0.74
2:AA:2131:G:C3'	3:AC:6:ARG:HB2	2.15	0.74
2:AA:2239:G:H2'	2:AA:2240:C:O4'	1.86	0.74
2:AA:2628:C:H1'	2:AA:2781:A:H2'	1.69	0.74
2:AA:2804:C:C5	2:AA:2805:G:N1	2.55	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:86:ARG:N	4:AD:86:ARG:HD2	2.02	0.74
5:AE:250:VAL:O	5:AE:251:PRO:O	2.05	0.74
6:AF:241:ALA:O	6:AF:244:ALA:HB3	1.88	0.74
9:AJ:114:ILE:O	9:AJ:118:LEU:HG	1.87	0.74
10:AK:93:ILE:HD11	10:AK:121:ILE:CB	2.08	0.74
12:AM:35:THR:HG22	12:AM:100:SER:OG	1.87	0.74
12:AM:79:PHE:HD1	12:AM:79:PHE:N	1.85	0.74
12:AM:82:THR:OG1	12:AM:83:ILE:N	2.19	0.74
13:AN:2:ILE:HG13	13:AN:67:ARG:NH2	2.02	0.74
15:AP:12:PRO:HG3	15:AP:92:VAL:H	1.53	0.74
16:AQ:65:ASP:O	16:AQ:66:LEU:HD12	1.87	0.74
18:AS:30:GLU:CA	18:AS:33:ARG:HD3	2.14	0.74
18:AS:84:ARG:O	18:AS:95:ILE:HG23	1.88	0.74
19:AT:42:GLU:CD	19:AT:49:VAL:HG23	2.12	0.74
21:AV:45:GLN:HE21	21:AV:45:GLN:N	1.83	0.74
25:A1:43:ALA:HB1	26:A2:75:LYS:CB	2.18	0.74
34:BA:19:C:H2'	34:BA:20:U:C6	2.20	0.74
34:BA:320:C:N4	34:BA:333:G:N1	2.12	0.74
34:BA:335:C:C4'	34:BA:1434:A:H4'	2.16	0.74
34:BA:459:G:H21	34:BA:463:A:N6	1.84	0.74
34:BA:463:A:H1'	51:BS:82:GLN:NE2	2.00	0.74
34:BA:766:A:N7	34:BA:814:A:N1	2.35	0.74
34:BA:889:A:H4'	34:BA:890:G:C4'	2.16	0.74
34:BA:1402:C:H2'	34:BA:1403:C:H6	1.52	0.74
34:BA:1540:U:C4	34:BA:1541:U:O4	2.40	0.74
37:BE:140:HIS:O	37:BE:143:GLU:HB3	1.86	0.74
39:BG:132:ARG:HG2	39:BG:132:ARG:HH11	1.50	0.74
39:BG:151:LYS:H	39:BG:151:LYS:HD2	1.52	0.74
39:BG:159:ARG:O	39:BG:163:GLU:HB3	1.87	0.74
40:BH:12:LEU:HD12	40:BH:31:LEU:HB3	1.69	0.74
40:BH:145:LYS:O	40:BH:148:VAL:HB	1.87	0.74
44:BL:32:ASP:O	44:BL:35:GLU:HB3	1.88	0.74
48:BP:13:LYS:HE3	48:BP:21:TYR:OH	1.86	0.74
49:BQ:43:CYS:O	49:BQ:47:LEU:HG	1.87	0.74
53:BU:72:ARG:HG2	53:BU:72:ARG:NH1	1.91	0.74
55:BW:57:ARG:NH2	55:BW:100:ILE:HG22	2.02	0.74
2:AA:29:U:OP1	2:AA:583:G:H4'	1.87	0.74
2:AA:33:U:O2'	2:AA:34:C:C6	2.38	0.74
2:AA:273:G:H1	2:AA:364:C:N4	1.86	0.74
2:AA:398:G:C2	2:AA:399:G:H1'	2.23	0.74
2:AA:494:G:H4'	18:AS:6:ILE:O	1.86	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:673:C:C2	2:AA:808:G:N2	2.55	0.74
2:AA:1449:A:N1	2:AA:449(A):G:C4	2.56	0.74
2:AA:1530:G:O6	2:AA:1540:G:C6	2.40	0.74
2:AA:1653:G:H5''	2:AA:1653:G:H8	1.53	0.74
2:AA:1657:C:H2'	2:AA:1658:C:O4'	1.87	0.74
2:AA:1699:G:C8	2:AA:1763:G:N2	2.56	0.74
2:AA:1790:C:P	4:AD:224:VAL:HG13	2.28	0.74
2:AA:1935:G:H22	2:AA:1962:C:C2'	1.89	0.74
2:AA:1973:G:H2'	2:AA:1974:C:C6	2.23	0.74
2:AA:2296:U:H6	2:AA:2296:U:C3'	2.00	0.74
2:AA:2329:G:H2'	2:AA:2330:G:C8	2.21	0.74
2:AA:2426:A:H8	2:AA:2426:A:OP1	1.69	0.74
2:AA:2457:U:H2'	2:AA:2458:G:C5'	2.17	0.74
2:AA:2468:G:N1	2:AA:2481:G:C4	2.55	0.74
2:AA:2783:G:H2'	2:AA:2784:C:O4'	1.87	0.74
6:AF:37:ALA:HB2	6:AF:102:LEU:CD1	2.16	0.74
7:AG:24:HIS:HB2	7:AG:72:LYS:HD3	1.69	0.74
8:AH:86:LEU:HB3	8:AH:130:ILE:O	1.86	0.74
9:AI:64:LYS:CE	9:AI:126:GLU:HB3	2.17	0.74
9:AJ:64:LYS:CE	9:AJ:126:GLU:HB3	2.18	0.74
10:AK:3:VAL:HB	10:AK:19:LYS:C	2.12	0.74
10:AK:7:LYS:HG3	10:AK:12:LYS:NZ	2.02	0.74
11:AL:19:THR:H	11:AL:20:PRO:CD	1.99	0.74
12:AM:47:THR:O	12:AM:53:ILE:HD13	1.88	0.74
12:AM:84:ARG:HB3	12:AM:98:PHE:CE2	2.22	0.74
14:AO:116:HIS:O	14:AO:118:LEU:CD2	2.35	0.74
15:AP:12:PRO:HG2	15:AP:92:VAL:H	1.51	0.74
19:AT:5:ILE:HG13	19:AT:40:ALA:CB	2.16	0.74
21:AV:19:ILE:HB	21:AV:39:PHE:HE1	1.53	0.74
25:A1:85:ARG:HD2	25:A1:116:ALA:O	1.86	0.74
26:A2:19:VAL:HB	26:A2:21:ARG:NH1	2.02	0.74
26:A2:49:GLU:HB3	26:A2:53:LYS:HD2	1.68	0.74
28:A4:41:PRO:HD2	28:A4:57:ASP:OD2	1.87	0.74
28:A4:48:ARG:H	28:A4:52:THR:HG1	1.34	0.74
34:BA:1184:G:H2'	34:BA:1185:G:C8	2.23	0.74
34:BA:1267:C:N4	34:BA:1268:A:C6	2.55	0.74
34:BA:1345:U:O2	34:BA:1377:A:C6	2.41	0.74
37:BE:118:LEU:CD1	37:BE:142:LEU:HA	2.16	0.74
37:BE:222:ILE:HG13	37:BE:226:ARG:NE	2.02	0.74
38:BF:118:GLN:O	38:BF:122:GLU:HG3	1.88	0.74
43:BK:97:VAL:HG22	43:BK:98:LYS:N	2.02	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:107:LEU:HD23	43:BK:107:LEU:H	1.52	0.74
45:BM:60:ARG:O	45:BM:61:GLU:HB2	1.86	0.74
48:BP:98:VAL:O	48:BP:98:VAL:HG12	1.87	0.74
53:BU:66:LEU:CD1	53:BU:67:ALA:N	2.49	0.74
54:BV:33:THR:HG22	54:BV:34:TRP:H	1.53	0.74
2:AA:12:U:O2	2:AA:2627:G:OP1	2.06	0.74
2:AA:214:G:N2	2:AA:215:G:N3	2.34	0.74
2:AA:217:G:H2'	2:AA:218:A:C5'	2.14	0.74
2:AA:270(J):G:N1	2:AA:270(P):C:O2	2.20	0.74
2:AA:311:A:H1'	2:AA:332:A:C5	2.22	0.74
2:AA:574:C:O2'	2:AA:575:A:OP2	2.03	0.74
2:AA:820:A:N1	2:AA:821:A:N3	2.35	0.74
2:AA:957:A:N7	2:AA:959:A:N7	2.35	0.74
2:AA:1076:C:H5'	11:AL:94:ARG:NH2	2.02	0.74
2:AA:1183:G:H5''	23:AX:29:ARG:NE	2.03	0.74
2:AA:1249:U:H5''	25:A1:4:ALA:HB2	1.70	0.74
2:AA:1339:G:H22	2:AA:1603:A:H8	1.33	0.74
2:AA:1528:A:N3	2:AA:1529:A:H1'	2.02	0.74
2:AA:1535:U:C5'	2:AA:1536:A:O4'	2.36	0.74
2:AA:1746:G:C2'	2:AA:1747:G:C8	2.70	0.74
2:AA:2136:C:N4	2:AA:2155:G:C6	2.55	0.74
2:AA:2149:G:O2'	2:AA:2150:U:H5'	1.85	0.74
2:AA:2303:G:H21	7:AG:131:THR:HG21	1.53	0.74
2:AA:2306:C:N4	2:AA:2311:A:H2	1.85	0.74
2:AA:2331:G:N2	2:AA:2385:C:N4	2.35	0.74
2:AA:2497:A:H2'	2:AA:2498:C:OP2	1.86	0.74
2:AA:2504:U:H2'	2:AA:2505:G:H5'	1.69	0.74
2:AA:2681:C:H5	2:AA:2727:G:C2	2.05	0.74
2:AA:2746:U:H4'	8:AH:138:GLN:HA	1.69	0.74
2:AA:2781:A:H5''	2:AA:2782:G:C5'	2.15	0.74
4:AD:106:PRO:HA	4:AD:193:GLU:O	1.87	0.74
6:AF:38:ALA:HB2	6:AF:221:GLU:HG2	1.69	0.74
8:AH:28:PRO:C	8:AH:30:GLY:N	2.45	0.74
8:AH:106:VAL:O	8:AH:106:VAL:CG1	2.36	0.74
11:AL:37:GLU:O	11:AL:41:ARG:HD2	1.88	0.74
12:AM:16:ASP:HA	12:AM:45:VAL:CG2	2.17	0.74
16:AQ:20:TYR:CE2	16:AQ:21:HIS:CD2	2.76	0.74
21:AV:66:VAL:HG21	21:AV:69:VAL:CG2	2.17	0.74
23:AX:51:ALA:O	23:AX:53:LEU:N	2.20	0.74
24:A0:87:TYR:O	24:A0:89:ASP:OD2	2.05	0.74
24:A0:100:LEU:HD21	24:A0:113:LEU:CB	2.16	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:50:ARG:HH12	26:A2:74:TYR:CB	2.00	0.74
27:A3:33:ALA:HB2	27:A3:65:GLY:HA3	1.70	0.74
29:A5:33:CYS:HB3	29:A5:34:PRO:HD2	1.68	0.74
30:A6:19:GLY:O	30:A6:44:ALA:CB	2.35	0.74
31:A7:21:ARG:CZ	31:A7:42:LEU:HB3	2.18	0.74
34:BA:585:G:C4'	47:BO:8:ASN:HD21	1.99	0.74
34:BA:909:A:C2'	34:BA:910:C:H5'	2.18	0.74
34:BA:986:A:H2'	34:BA:987:G:C8	2.23	0.74
34:BA:1080:A:C8	34:BA:1081:G:O4'	2.40	0.74
34:BA:1182:G:O2'	34:BA:1183:A:OP2	2.04	0.74
34:BA:1239:A:H2'	34:BA:1298:C:H42	1.51	0.74
34:BA:1241:G:O6	34:BA:1296:C:N3	2.19	0.74
35:BC:9:A:O4'	35:BC:46:G:H1'	1.88	0.74
35:BC:76:A:OP1	35:BC:76:A:H3'	1.88	0.74
37:BE:59:GLU:HA	37:BE:221:LEU:HD11	1.69	0.74
39:BG:128:VAL:CG1	39:BG:129:ASN:N	2.51	0.74
40:BH:88:LYS:HB3	40:BH:123:LEU:O	1.86	0.74
41:BI:23:LYS:CA	41:BI:26:ILE:HD12	2.10	0.74
42:BJ:108:ALA:O	42:BJ:119:ARG:HD2	1.87	0.74
52:BT:53:LEU:HD11	52:BT:85:VAL:CG1	2.16	0.74
55:BW:23:ARG:CA	55:BW:26:ASN:HD21	2.00	0.74
55:BW:62:LEU:HA	55:BW:65:LYS:CG	2.17	0.74
55:BW:62:LEU:HA	55:BW:65:LYS:HG2	1.69	0.74
2:AA:138:G:C5'	19:AT:43:GLU:HG3	2.16	0.74
2:AA:237:C:N4	2:AA:260:G:N1	2.30	0.74
2:AA:567:A:C2	2:AA:568:U:C6	2.75	0.74
2:AA:599:G:O2'	6:AF:30:LEU:HD21	1.86	0.74
2:AA:974(A):C:H5'	2:AA:975:G:OP1	1.87	0.74
2:AA:1061:U:H3'	2:AA:1061:U:P	2.27	0.74
2:AA:1087:G:N2	2:AA:1103:A:H2'	2.02	0.74
2:AA:1195:G:C2'	2:AA:1226:G:H22	2.00	0.74
2:AA:1508:A:H2'	2:AA:1509:C:H5	1.46	0.74
2:AA:1579:A:OP2	2:AA:1579:A:H3'	1.87	0.74
2:AA:1670:C:H2'	2:AA:1671:U:C5'	2.18	0.74
2:AA:2051:A:H5''	2:AA:2578:G:H5''	1.70	0.74
2:AA:2334:G:OP2	16:AQ:13:ARG:HG3	1.87	0.74
2:AA:2359:C:C4'	32:A8:52:LYS:NZ	2.49	0.74
2:AA:2407:G:H2'	2:AA:2408:U:C5	2.22	0.74
3:AC:144:THR:CA	3:AC:152:ILE:HG21	2.17	0.74
4:AD:85:ASN:CB	4:AD:86:ARG:HE	1.99	0.74
6:AF:30:LEU:O	6:AF:33:LYS:HB2	1.87	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:195:VAL:HB	6:AF:235:PHE:CA	2.12	0.74
9:AI:1:MET:CE	11:AL:10:LYS:HZ1	1.99	0.74
13:AN:21:VAL:HG12	13:AN:22:ILE:N	2.03	0.74
14:AO:94:ARG:HE	14:AO:118:LEU:HB2	1.52	0.74
14:AO:126:SER:O	14:AO:129:ALA:HB3	1.88	0.74
15:AP:36:ASN:ND2	15:AP:41:THR:H	1.86	0.74
17:AR:49:LEU:HD23	17:AR:50:GLU:CA	2.17	0.74
21:AV:12:GLN:O	21:AV:15:ASP:HB3	1.88	0.74
24:A0:73:VAL:HG12	24:A0:77:ARG:NE	2.02	0.74
25:A1:61:TRP:O	25:A1:62:ILE:C	2.30	0.74
26:A2:14:VAL:HG12	26:A2:15:SER:H	1.51	0.74
30:A6:19:GLY:CA	30:A6:42:PRO:CB	2.65	0.74
30:A6:45:LYS:C	30:A6:46:LYS:HG2	2.10	0.74
32:A8:10:ALA:CA	32:A8:14:ILE:HG21	2.17	0.74
32:A8:30:ARG:HG2	32:A8:31:HIS:N	2.02	0.74
32:A8:50:LEU:CD2	32:A8:51:ALA:H	1.96	0.74
34:BA:113:G:C1'	34:BA:354:G:H5''	2.17	0.74
34:BA:129(A):G:N2	34:BA:190(G):G:C4	2.55	0.74
34:BA:410:G:C1'	34:BA:432:A:H61	2.00	0.74
34:BA:538:G:H3'	47:BO:115:LYS:HE2	1.69	0.74
34:BA:697:U:C2'	34:BA:698:G:O5'	2.36	0.74
34:BA:739:C:H2'	34:BA:740:U:H5'	1.69	0.74
34:BA:751:U:H2'	34:BA:752:G:O4'	1.86	0.74
34:BA:928:G:O3'	34:BA:1533:C:N4	2.21	0.74
34:BA:1095:U:OP2	34:BA:1108:G:N1	2.16	0.74
34:BA:1344:C:O2'	34:BA:1349:A:H5'	1.87	0.74
34:BA:1376:U:H3	34:BA:1377:A:H62	1.33	0.74
37:BE:67:THR:CB	37:BE:155:LEU:HD21	2.17	0.74
37:BE:211:ILE:HG22	37:BE:212:GLN:N	2.03	0.74
38:BF:33:LEU:HD21	49:BQ:54:PRO:HD3	1.68	0.74
40:BH:94:ALA:HB3	40:BH:117:ASP:O	1.86	0.74
41:BI:60:PHE:CE2	53:BU:78:LEU:HD11	2.23	0.74
47:BO:27:LEU:HD22	47:BO:62:SER:OG	1.88	0.74
47:BO:117:ARG:HB3	47:BO:117:ARG:CZ	2.18	0.74
49:BQ:27:CYS:SG	49:BQ:42:ILE:HB	2.27	0.74
54:BV:22:LEU:HD23	54:BV:25:LYS:HD3	1.69	0.74
55:BW:88:VAL:HG12	55:BW:92:LEU:CD1	2.18	0.74
1:AB:25:A:H2'	1:AB:26:A:O4'	1.88	0.74
2:AA:95:G:O2'	22:AW:42:ASN:HB3	1.88	0.74
2:AA:181:A:H2	2:AA:434:U:HO2'	1.35	0.74
2:AA:272:G:H1	2:AA:365:C:H42	1.34	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:482:A:C5	2:AA:506:G:C2	2.75	0.74
2:AA:535:C:H5'	25:A1:53:LYS:HE2	1.67	0.74
2:AA:1174:A:N6	2:AA:1177:A:C5	2.55	0.74
2:AA:1294:U:O2'	24:A0:26:LYS:HD2	1.88	0.74
2:AA:1347:G:O2'	2:AA:1348:G:H5'	1.86	0.74
2:AA:1534:G:N1	2:AA:1538:G:N3	2.34	0.74
2:AA:1707:G:H1	2:AA:1751:C:N4	1.86	0.74
2:AA:2028:U:H2'	2:AA:2029:G:N7	2.02	0.74
2:AA:2043:C:O2	2:AA:2043:C:H2'	1.88	0.74
2:AA:2074:U:H2'	2:AA:2074:U:O2	1.87	0.74
2:AA:2174:C:O5'	3:AC:218:MET:HE3	1.87	0.74
2:AA:2423:U:C6	2:AA:2425:A:C5	2.75	0.74
2:AA:2438:U:H4'	2:AA:2440:C:OP1	1.88	0.74
4:AD:93:ILE:HB	4:AD:103:ILE:HG21	1.69	0.74
4:AD:114:GLU:OE2	4:AD:115:ILE:HG13	1.87	0.74
4:AD:183:ILE:CG2	4:AD:184:LEU:N	2.51	0.74
6:AF:41:ASN:HD21	6:AF:101:ASP:HA	1.51	0.74
9:AJ:77:VAL:HG22	9:AJ:102:ILE:CD1	2.18	0.74
10:AK:8:ASP:C	10:AK:10:LYS:H	1.95	0.74
12:AM:87:LEU:CB	12:AM:98:PHE:CZ	2.70	0.74
12:AM:135:ILE:O	12:AM:139:LEU:HD22	1.88	0.74
13:AN:91:LYS:HB3	13:AN:111:PHE:CE2	2.23	0.74
17:AR:13:ILE:HD11	17:AR:33:SER:OG	1.88	0.74
18:AS:20:VAL:HG11	18:AS:47:VAL:CG2	2.12	0.74
20:AU:21:LYS:HG2	20:AU:22:GLN:N	2.02	0.74
21:AV:68:ALA:O	21:AV:82:ASP:HB3	1.87	0.74
25:A1:8:ILE:O	25:A1:12:ARG:HG3	1.87	0.74
25:A1:55:ARG:HA	25:A1:58:ARG:HE	1.49	0.74
26:A2:57:GLN:NE2	26:A2:100:GLY:O	2.21	0.74
28:A4:64:GLY:O	28:A4:67:TYR:O	2.06	0.74
32:A8:30:ARG:HG2	32:A8:31:HIS:H	1.53	0.74
34:BA:225:C:H2'	34:BA:226:G:O5'	1.87	0.74
34:BA:582:U:C4	34:BA:583:A:N7	2.56	0.74
34:BA:826:C:H5'	43:BK:12:ARG:HE	1.53	0.74
34:BA:965:A:OP1	34:BA:1198:G:H5''	1.87	0.74
34:BA:1128:C:N4	34:BA:1143:G:N2	2.35	0.74
34:BA:1360:A:N7	49:BQ:18:VAL:HG12	2.02	0.74
35:BB:6:U:C4	35:BB:7:U:C5	2.76	0.74
35:BB:22:G:C2'	35:BB:23:A:C8	2.67	0.74
35:BB:26:G:N2	35:BB:27:C:C1'	2.51	0.74
35:BC:71:G:N1	35:BC:72:C:C2	2.56	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:222:ILE:CG1	37:BE:223:ILE:N	2.49	0.74
39:BG:19:LEU:C	39:BG:21:LEU:HG	2.12	0.74
41:BI:40:VAL:HG23	41:BI:63:TYR:HE1	1.52	0.74
42:BJ:12:LEU:CD2	42:BJ:24:THR:HB	2.18	0.74
43:BK:6:ILE:CG2	43:BK:7:ALA:H	2.01	0.74
43:BK:95:VAL:HG22	43:BK:133:LEU:CD2	2.18	0.74
44:BL:48:GLU:O	44:BL:51:ARG:HB2	1.87	0.74
45:BM:16:LEU:HD12	45:BM:70:ARG:HG2	1.69	0.74
45:BM:84:GLN:CA	45:BM:88:LEU:HD12	2.08	0.74
52:BT:11:VAL:O	52:BT:12:SER:HB2	1.86	0.74
1:AB:68:C:H3'	1:AB:69:G:H8	1.53	0.74
2:AA:112:U:C5	2:AA:113:G:C4	2.75	0.74
2:AA:220:G:H4'	2:AA:234:C:C4'	2.18	0.74
2:AA:264:C:C2'	2:AA:265:A:H5''	2.17	0.74
2:AA:451:C:N4	2:AA:453:C:H3'	2.03	0.74
2:AA:464:U:N3	2:AA:465:G:C5	2.56	0.74
2:AA:471:A:H2'	2:AA:472:A:H8	1.53	0.74
2:AA:479:A:O2'	2:AA:480:A:H3'	1.87	0.74
2:AA:530:G:HO2'	2:AA:531:C:C5'	2.00	0.74
2:AA:746:A:OP1	2:AA:2612:C:N3	2.20	0.74
2:AA:870:A:H5'	2:AA:871:U:OP2	1.88	0.74
2:AA:895:U:O2	2:AA:896:A:C6	2.41	0.74
2:AA:911:A:H2'	15:AP:16:ARG:HE	1.53	0.74
2:AA:932:G:H21	2:AA:933:A:N6	1.85	0.74
2:AA:1138:G:N2	2:AA:1139:G:C4	2.55	0.74
2:AA:1165:U:H2'	2:AA:1166:C:C6	2.23	0.74
2:AA:1327:C:H3'	2:AA:1328:G:H8	1.53	0.74
2:AA:1478:G:O2'	2:AA:1479:G:O4'	2.03	0.74
2:AA:1826:G:H2'	2:AA:1827:C:C5'	2.18	0.74
2:AA:2013:A:P	18:AS:96:ILE:HB	2.27	0.74
2:AA:2043:C:C4	2:AA:2777:G:N3	2.56	0.74
2:AA:2051:A:O2'	2:AA:2052:G:O5'	2.06	0.74
2:AA:2209:C:N3	2:AA:2215:G:N2	2.33	0.74
2:AA:2216:G:O2'	2:AA:2217:G:H5'	1.88	0.74
2:AA:2468:G:C2	2:AA:2481:G:C4	2.76	0.74
2:AA:2686:G:H2'	2:AA:2687:U:O4'	1.87	0.74
2:AA:2791:C:O2	2:AA:2805:G:N1	2.20	0.74
3:AC:26:ALA:O	3:AC:29:VAL:HG12	1.87	0.74
4:AD:166:LYS:HB2	4:AD:171:VAL:HG12	1.67	0.74
4:AD:174:ARG:HH11	4:AD:174:ARG:CG	2.00	0.74
4:AD:176:ALA:O	4:AD:178:GLY:N	2.21	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:197:GLY:C	4:AD:199:ARG:N	2.44	0.74
4:AD:210:LYS:O	4:AD:213:LYS:N	2.20	0.74
4:AD:226:GLY:O	4:AD:227:VAL:HG12	1.88	0.74
6:AF:52:ALA:HA	6:AF:55:ARG:CZ	2.18	0.74
7:AG:151:ILE:HD13	7:AG:156:ARG:CZ	2.17	0.74
9:AJ:4:ASP:O	9:AJ:8:GLU:HG3	1.88	0.74
12:AM:24:SER:HA	12:AM:86:MET:HE3	1.68	0.74
12:AM:45:VAL:HG12	12:AM:46:ILE:H	1.53	0.74
15:AP:63:ALA:O	15:AP:64:ALA:C	2.27	0.74
15:AP:85:ILE:CG2	15:AP:122:PHE:HB3	2.12	0.74
15:AP:142:LYS:HG3	15:AP:143:VAL:H	1.51	0.74
20:AU:16:LEU:O	20:AU:19:ARG:HB2	1.88	0.74
21:AV:52:PHE:C	21:AV:65:LEU:HD11	2.12	0.74
21:AV:100:THR:HG22	21:AV:137:ASP:CB	2.18	0.74
21:AV:154:LEU:HD13	21:AV:160:LEU:CD1	2.17	0.74
21:AV:166:LEU:HD13	21:AV:167:THR:N	2.03	0.74
25:A1:66:ASN:HA	25:A1:76:TYR:HH	1.53	0.74
25:A1:76:TYR:N	25:A1:76:TYR:CD1	2.56	0.74
30:A6:11:LYS:HZ3	32:A8:35:GLY:N	1.85	0.74
30:A6:28:ARG:HG3	30:A6:30:ASN:HB3	1.70	0.74
30:A6:37:LEU:HD21	30:A6:51:ARG:CG	2.13	0.74
34:BA:55:A:H2'	34:BA:56:U:H6	1.53	0.74
34:BA:191:G:O2'	55:BW:102:GLY:CA	2.36	0.74
34:BA:204:U:H2'	34:BA:204:U:O2	1.86	0.74
34:BA:437:U:O2'	34:BA:438:G:H5'	1.87	0.74
34:BA:556:C:H2'	34:BA:557:G:O4'	1.88	0.74
34:BA:735:C:H1'	53:BU:75:ILE:HD11	1.68	0.74
34:BA:777:A:H2'	34:BA:778:G:C8	2.20	0.74
34:BA:1286:A:H5'	56:BX:25:LYS:HG2	1.70	0.74
35:BB:12:U:N3	35:BB:24:G:C2	2.47	0.74
35:BB:32:C:N4	35:BB:33:U:H3	1.83	0.74
38:BF:114:PRO:O	38:BF:117:ALA:HB3	1.87	0.74
39:BG:121:VAL:HG22	39:BG:126:ILE:HD11	1.68	0.74
41:BI:5:GLU:HB3	41:BI:62:TRP:HE1	1.53	0.74
42:BJ:54:THR:O	42:BJ:54:THR:HG23	1.88	0.74
43:BK:126:LYS:HD2	43:BK:127:LEU:H	1.50	0.74
44:BL:3:GLN:H	44:BL:3:GLN:NE2	1.86	0.74
49:BQ:43:CYS:CA	49:BQ:46:GLU:OE1	2.35	0.74
1:AB:98:G:H5''	1:AB:99:A:OP1	1.88	0.74
2:AA:145:G:H2'	2:AA:146:G:H8	1.52	0.74
2:AA:246:C:O2'	2:AA:385:C:H4'	1.87	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:259:G:H2'	2:AA:260:G:C8	2.17	0.74
2:AA:273(E):U:O4	2:AA:363(A):A:N1	2.21	0.74
2:AA:465:G:H2'	2:AA:466:A:C8	2.23	0.74
2:AA:979:G:H3'	2:AA:980:A:C5'	2.18	0.74
2:AA:991:C:C5'	2:AA:1186:G:OP2	2.34	0.74
2:AA:1069:A:H4'	2:AA:1070:A:O5'	1.85	0.74
2:AA:1140:C:H4'	2:AA:142(A):A:C5	2.22	0.74
2:AA:1141:U:C2'	2:AA:1142:U:OP2	2.34	0.74
2:AA:1317:A:H2'	2:AA:1318:C:C6	2.20	0.74
2:AA:1469:A:N1	2:AA:1522:G:N2	2.35	0.74
2:AA:1508:A:H2'	2:AA:1509:C:C6	2.23	0.74
2:AA:1530:G:OP1	2:AA:1539:G:N1	2.17	0.74
2:AA:1566:A:C6	4:AD:212:HIS:CE1	2.76	0.74
2:AA:1663:C:C2'	2:AA:1664:A:C8	2.70	0.74
2:AA:1670:C:C2'	2:AA:1671:U:H5'	2.17	0.74
2:AA:2043:C:N4	2:AA:2777:G:C4	2.56	0.74
2:AA:2045:C:O2	29:A5:22:HIS:CE1	2.41	0.74
2:AA:2095:C:O2	2:AA:2194:G:N1	2.20	0.74
2:AA:2641:G:O6	2:AA:2773:C:N3	2.20	0.74
2:AA:2652:C:N3	2:AA:2668:G:N2	2.30	0.74
2:AA:2804:C:C5	2:AA:2805:G:C6	2.76	0.74
2:AA:2842:G:N2	2:AA:2875:C:N3	2.29	0.74
3:AC:70:LYS:HG2	3:AC:157:LYS:HZ1	1.52	0.74
8:AH:72:ALA:O	8:AH:75:VAL:HB	1.87	0.74
9:AJ:22:VAL:HG12	9:AJ:26:GLU:OE1	1.87	0.74
16:AQ:19:ASP:CB	16:AQ:22:GLN:NE2	2.42	0.74
17:AR:13:ILE:HG13	17:AR:33:SER:HB2	1.69	0.74
26:A2:49:GLU:HB3	26:A2:53:LYS:HD3	1.69	0.74
26:A2:62:GLU:HB2	26:A2:96:LEU:CD2	2.17	0.74
26:A2:63:HIS:CA	26:A2:95:ILE:HG23	2.18	0.74
30:A6:42:PRO:C	30:A6:44:ALA:N	2.37	0.74
34:BA:138:G:N2	34:BA:225:C:N3	2.31	0.74
34:BA:163:C:O2'	34:BA:164:U:C5'	2.36	0.74
34:BA:519:C:C2'	34:BA:520:A:H5'	2.18	0.74
34:BA:566:G:H4'	34:BA:567:G:OP1	1.85	0.74
34:BA:598:U:O2'	43:BK:94:TYR:HB3	1.88	0.74
34:BA:787:A:O2'	34:BA:788:U:H5'	1.87	0.74
34:BA:1387:G:H2'	34:BA:1388:C:C6	2.22	0.74
37:BE:149:LEU:O	37:BE:151:GLY:N	2.20	0.74
38:BF:73:PRO:HG3	38:BF:105:GLU:OE2	1.88	0.74
38:BF:177:THR:HG23	38:BF:180:ALA:HB2	1.70	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:20:TYR:O	39:BG:22:LYS:N	2.14	0.74
39:BG:31:CYS:O	39:BG:33:MET:N	2.20	0.74
40:BH:151:LEU:HD11	43:BK:77:GLU:HB3	1.69	0.74
42:BJ:66:VAL:O	42:BJ:70:LYS:HG3	1.87	0.74
45:BM:34:VAL:HG22	45:BM:74:ILE:HD11	1.69	0.74
48:BP:24:GLY:HA3	48:BP:66:LEU:HD22	1.67	0.74
1:AB:100:G:C4	1:AB:101:A:C8	2.76	0.73
2:AA:36:G:C2	2:AA:445:C:O2	2.40	0.73
2:AA:85:G:OP2	20:AU:65:VAL:HB	1.88	0.73
2:AA:99:U:H3	20:AU:107:LYS:HD2	1.53	0.73
2:AA:233:A:C8	2:AA:234:C:C5	2.76	0.73
2:AA:373:U:H4'	2:AA:374:A:H8	1.49	0.73
2:AA:853:G:O2'	2:AA:854:G:O4'	2.04	0.73
2:AA:919:G:C2'	2:AA:920:G:C8	2.67	0.73
2:AA:142(A):A:OP2	2:AA:1143:A:C8	2.41	0.73
2:AA:1691:C:O2	2:AA:1692:U:O4'	2.06	0.73
3:AC:76:ALA:CB	3:AC:86:ALA:HB1	2.18	0.73
4:AD:131:LEU:O	4:AD:134:ILE:HB	1.88	0.73
5:AE:44:TYR:OH	5:AE:308:VAL:HG22	1.87	0.73
5:AE:74:GLU:C	5:AE:75:THR:HG1	1.95	0.73
5:AE:210:THR:CA	5:AE:216:ARG:NH2	2.45	0.73
7:AG:24:HIS:O	7:AG:25:MET:HG2	1.88	0.73
11:AL:66:PHE:O	11:AL:67:THR:HG23	1.88	0.73
12:AM:74:ARG:HD3	12:AM:74:ARG:N	2.03	0.73
13:AN:10:VAL:HG12	13:AN:12:ASP:H	1.52	0.73
13:AN:77:ILE:HD13	13:AN:77:ILE:C	2.13	0.73
15:AP:35:ASN:H	15:AP:76:GLY:N	1.85	0.73
17:AR:45:GLU:O	17:AR:48:ASN:CG	2.31	0.73
18:AS:20:VAL:CG1	18:AS:47:VAL:HG21	2.11	0.73
20:AU:21:LYS:HG2	20:AU:22:GLN:H	1.52	0.73
20:AU:48:VAL:HG22	20:AU:98:VAL:CA	2.18	0.73
21:AV:19:ILE:CB	21:AV:36:ARG:HG2	2.17	0.73
25:A1:27:SER:C	25:A1:29:SER:N	2.43	0.73
26:A2:12:TYR:CD2	26:A2:13:ARG:N	2.57	0.73
28:A4:62:ARG:O	28:A4:65:ASP:OD2	2.06	0.73
30:A6:16:ALA:HB3	30:A6:19:GLY:H	1.51	0.73
32:A8:37:SER:OG	32:A8:38:GLY:N	2.18	0.73
34:BA:281:G:HO2'	34:BA:282:A:H8	1.35	0.73
34:BA:482:A:H2	34:BA:483:C:O4'	1.71	0.73
34:BA:551:U:H6	34:BA:551:U:O5'	1.69	0.73
34:BA:579:G:H5'	34:BA:728:A:O2'	1.88	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:600:C:O2'	34:BA:601:C:H5'	1.87	0.73
34:BA:603:U:H2'	34:BA:604:G:H8	1.53	0.73
34:BA:607:A:C2'	34:BA:608:A:H5'	2.18	0.73
34:BA:1028:C:H2'	34:BA:1029:C:H6	1.50	0.73
34:BA:1238:A:H62	34:BA:1301:U:H3	1.35	0.73
34:BA:1349:A:O2'	34:BA:1350:A:H5'	1.88	0.73
34:BA:1379:G:N7	42:BJ:2:ALA:N	2.35	0.73
34:BA:1405:G:H21	34:BA:1517:G:H22	1.33	0.73
34:BA:1452:C:O2	34:BA:1452:C:H2'	1.88	0.73
34:BA:1461:G:H2'	34:BA:1462:G:H8	1.53	0.73
37:BE:115:LEU:HD22	37:BE:149:LEU:HB3	1.70	0.73
41:BI:53:ALA:C	41:BI:55:ASP:N	2.42	0.73
43:BK:48:TYR:HA	43:BK:61:VAL:HG22	1.69	0.73
43:BK:90:GLY:O	52:BT:34:LYS:HD3	1.88	0.73
48:BP:36:LYS:HB3	48:BP:59:TYR:OH	1.88	0.73
52:BT:75:ARG:NH1	52:BT:76:LEU:O	2.21	0.73
1:AB:87:G:OP2	1:AB:87:G:C8	2.40	0.73
2:AA:171:G:H2'	2:AA:172:C:C5	2.23	0.73
2:AA:245:G:C5'	14:AO:55:GLN:HA	2.16	0.73
2:AA:273(B):C:N3	2:AA:363(D):G:C6	2.57	0.73
2:AA:284:U:C2	2:AA:357:A:N1	2.55	0.73
2:AA:414:C:H1'	2:AA:1864:U:H1'	1.70	0.73
2:AA:460:A:C8	2:AA:461:C:H5	2.06	0.73
2:AA:995:C:P	25:A1:54:LYS:HE2	2.28	0.73
2:AA:1000:A:H8	2:AA:1154:G:H21	1.36	0.73
2:AA:1022:G:O2'	2:AA:1023:U:OP2	2.06	0.73
2:AA:1044:G:O3'	2:AA:1045:A:H4'	1.88	0.73
2:AA:1173:G:N2	2:AA:1175:U:H5''	2.03	0.73
2:AA:1327:C:N4	2:AA:1647:G:N2	2.35	0.73
2:AA:1472:A:C8	2:AA:1473:G:N7	2.56	0.73
2:AA:1492:G:H21	2:AA:1493:C:H42	1.36	0.73
2:AA:1613:G:OP1	31:A7:5:TYR:CG	2.41	0.73
2:AA:1614:A:H3'	2:AA:1614:A:N3	2.02	0.73
2:AA:1856:G:C6	2:AA:1857:G:N3	2.56	0.73
2:AA:1892:C:H2'	2:AA:1893:C:H6	1.51	0.73
2:AA:2044:C:O2'	2:AA:2045:C:H5'	1.87	0.73
2:AA:2072:G:C6	2:AA:2073:C:N4	2.56	0.73
2:AA:2210:G:O6	4:AD:148:GLY:HA3	1.88	0.73
2:AA:2215:G:H2'	2:AA:2216:G:H8	1.49	0.73
2:AA:2282:G:N2	2:AA:2427:C:O2	2.20	0.73
2:AA:2484:G:H2'	2:AA:2485:G:C5'	2.18	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2484:G:N2	2:AA:2485:G:C1'	2.52	0.73
2:AA:2531:A:H2'	2:AA:2532:G:C5'	2.18	0.73
2:AA:2607:G:H2'	2:AA:2608:G:C5'	2.18	0.73
3:AC:53:ARG:O	3:AC:55:ASP:N	2.22	0.73
3:AC:127:LEU:HA	3:AC:130:ILE:HD13	1.70	0.73
3:AC:127:LEU:HD22	3:AC:130:ILE:HG21	1.69	0.73
4:AD:66:PHE:N	4:AD:67:LYS:NZ	2.36	0.73
8:AH:93:TYR:CE1	8:AH:106:VAL:HG13	2.22	0.73
9:AI:83:LEU:HD13	9:AI:91:LEU:HD12	1.69	0.73
10:AK:6:LEU:CD1	10:AK:14:LYS:HZ3	2.01	0.73
12:AM:79:PHE:N	12:AM:79:PHE:CD1	2.55	0.73
13:AN:10:VAL:HG23	13:AN:17:ARG:O	1.88	0.73
13:AN:37:ASP:O	13:AN:62:VAL:HG23	1.88	0.73
17:AR:23:HIS:HE1	17:AR:27:ALA:HB3	1.48	0.73
18:AS:40:ASN:ND2	18:AS:41:LYS:N	2.35	0.73
20:AU:15:PRO:O	20:AU:18:GLU:N	2.21	0.73
21:AV:54:ILE:HG21	21:AV:56:VAL:HG23	1.70	0.73
21:AV:116:VAL:HA	21:AV:169:VAL:HG22	1.69	0.73
22:AW:20:LEU:HA	22:AW:23:LEU:HD12	1.70	0.73
23:AX:3:ARG:HD3	23:AX:60:GLU:CB	2.18	0.73
27:A3:43:THR:OG1	27:A3:75:GLY:C	2.30	0.73
34:BA:17:U:H2'	34:BA:18:C:C6	2.23	0.73
34:BA:319:G:O2'	34:BA:320:C:H5'	1.87	0.73
34:BA:582:U:C5'	50:BR:64:ARG:NH2	2.51	0.73
34:BA:642:A:O2'	43:BK:31:PHE:CE1	2.39	0.73
34:BA:1077:G:N2	34:BA:1079:G:H3'	2.01	0.73
34:BA:1226:C:C4	48:BP:104:ARG:HA	2.22	0.73
34:BA:1226:C:C6	48:BP:104:ARG:HA	2.22	0.73
35:BC:50:U:O2'	35:BC:51:G:H5'	1.88	0.73
37:BE:9:GLU:HG2	37:BE:217:ARG:HH22	1.49	0.73
37:BE:127:ILE:O	37:BE:129:GLU:N	2.20	0.73
39:BG:72:GLU:OE2	39:BG:72:GLU:HA	1.88	0.73
43:BK:36:LEU:O	43:BK:39:LEU:CB	2.35	0.73
45:BM:16:LEU:HB3	45:BM:70:ARG:CG	2.18	0.73
48:BP:88:ARG:HG3	48:BP:89:GLY:N	2.01	0.73
1:AB:16:G:O2'	1:AB:17:C:C5'	2.36	0.73
2:AA:37:C:H5'	2:AA:451:C:O4'	1.87	0.73
2:AA:197:A:H2'	2:AA:198:C:O4'	1.88	0.73
2:AA:310:A:H2'	2:AA:312:G:N7	2.03	0.73
2:AA:391:G:C5	2:AA:411:G:N2	2.55	0.73
2:AA:414:C:C4'	2:AA:1863:G:N2	2.51	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:541:C:N3	2:AA:552:G:N2	2.36	0.73
2:AA:729:G:C6	4:AD:207:ALA:HA	2.23	0.73
2:AA:919:G:H2'	2:AA:920:G:N7	2.02	0.73
2:AA:946:G:H2'	2:AA:947:G:C8	2.23	0.73
2:AA:978:G:H2'	2:AA:979:G:C8	2.23	0.73
2:AA:1011:G:C6	2:AA:1151:G:C6	2.76	0.73
2:AA:1778:U:C2	2:AA:1784:A:H2	2.06	0.73
2:AA:1826:G:C6	2:AA:1827:C:C5	2.76	0.73
2:AA:1837:C:O2'	2:AA:1928:A:H1'	1.88	0.73
2:AA:1927:A:C6	2:AA:1928:A:N1	2.56	0.73
2:AA:1950:G:C6	2:AA:1951:U:H5	2.05	0.73
2:AA:1991:U:H2'	2:AA:1992:G:C5'	2.17	0.73
2:AA:2022:U:C4	29:A5:9:LYS:NZ	2.51	0.73
2:AA:2246:G:H2'	2:AA:2247:A:H8	1.51	0.73
6:AF:37:ALA:HB1	6:AF:107:ARG:CZ	2.18	0.73
6:AF:168:ARG:CZ	6:AF:209:GLY:CA	2.66	0.73
7:AG:21:VAL:O	7:AG:75:LEU:O	2.06	0.73
8:AH:8:ILE:CD1	8:AH:72:ALA:HB2	2.17	0.73
9:AI:115:LYS:HD3	9:AI:127:LEU:HD22	1.70	0.73
10:AK:7:LYS:HG2	10:AK:12:LYS:HG2	1.68	0.73
10:AK:133:LEU:HD11	10:AK:139:ALA:HB3	1.70	0.73
12:AM:19:MET:HB3	12:AM:46:ILE:CG1	2.18	0.73
12:AM:74:ARG:HB3	12:AM:75:PRO:HD2	1.70	0.73
12:AM:135:ILE:HA	12:AM:138:THR:OG1	1.88	0.73
20:AU:5:ASP:O	20:AU:9:LYS:HD3	1.89	0.73
21:AV:19:ILE:HD13	21:AV:36:ARG:HD3	1.70	0.73
21:AV:21:ALA:CB	21:AV:81:VAL:HB	2.18	0.73
21:AV:106:GLY:HA2	21:AV:142:ASN:CG	2.13	0.73
23:AX:53:LEU:O	23:AX:54:VAL:HG13	1.88	0.73
25:A1:84:LYS:O	25:A1:85:ARG:C	2.29	0.73
26:A2:38:LEU:HD23	26:A2:38:LEU:H	1.53	0.73
27:A3:38:VAL:O	27:A3:40:GLN:N	2.20	0.73
28:A4:65:ASP:OD2	28:A4:66:SER:N	2.20	0.73
31:A7:17:GLY:HA2	31:A7:44:VAL:CG2	2.18	0.73
34:BA:51:A:O2'	34:BA:52:G:OP2	2.06	0.73
34:BA:405:U:H5''	34:BA:406:G:O4'	1.87	0.73
34:BA:563:A:O2'	34:BA:566:G:O2'	2.04	0.73
34:BA:724:G:O2'	34:BA:725:G:H5'	1.86	0.73
34:BA:770:C:H4'	34:BA:900:A:H2	1.52	0.73
34:BA:907:A:H4'	34:BA:907:A:OP1	1.86	0.73
34:BA:950:U:O4	34:BA:1231:G:O6	2.06	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1007:C:O2'	34:BA:1008:C:H5'	1.87	0.73
34:BA:1389:C:H2'	34:BA:1390:U:O4'	1.88	0.73
35:BB:34:G:C6	36:B1:66:G:OP2	2.40	0.73
35:BB:37:G:N7	35:BB:39:U:O4	2.21	0.73
35:BC:19:G:H3'	35:BC:20:G:N7	2.04	0.73
37:BE:133:LYS:N	37:BE:133:LYS:HE2	2.03	0.73
37:BE:178:ARG:CD	37:BE:184:VAL:HG21	2.17	0.73
38:BF:116:VAL:HG21	38:BF:141:VAL:CG2	2.18	0.73
40:BH:7:GLU:HB3	40:BH:112:LEU:HD11	1.69	0.73
42:BJ:87:VAL:HG13	42:BJ:154:TYR:HB2	1.70	0.73
43:BK:9:MET:HG3	43:BK:26:VAL:HG21	1.70	0.73
44:BL:28:VAL:O	44:BL:29:ASN:C	2.31	0.73
1:AB:13:A:O2'	1:AB:15:A:H5''	1.88	0.73
2:AA:15:G:H2'	2:AA:16:G:C5'	2.18	0.73
2:AA:92:G:O2'	2:AA:93:C:H5'	1.89	0.73
2:AA:126:A:OP1	31:A7:44:VAL:HG21	1.88	0.73
2:AA:176:G:H21	2:AA:177:G:H1'	1.54	0.73
2:AA:399:G:C2'	2:AA:400:G:H5'	2.18	0.73
2:AA:563:G:O5'	2:AA:564:C:OP2	2.03	0.73
2:AA:946:G:H2'	2:AA:947:G:O4'	1.88	0.73
2:AA:995:C:H2'	2:AA:995:C:O2	1.86	0.73
2:AA:1022:G:O6	12:AM:47:THR:HG21	1.88	0.73
2:AA:1066:U:O2	2:AA:1068:G:H3'	1.89	0.73
2:AA:1073:A:N7	2:AA:1074:G:C5	2.56	0.73
2:AA:1301:A:C5'	2:AA:1607:C:H41	2.02	0.73
2:AA:1304:C:C2'	2:AA:1305:C:O5'	2.37	0.73
2:AA:1791:A:O5'	2:AA:1791:A:H8	1.72	0.73
2:AA:2209:C:O2	2:AA:2210:G:H2'	1.88	0.73
2:AA:2246:G:H2'	2:AA:2247:A:C8	2.23	0.73
2:AA:2386:C:H2'	2:AA:2387:U:C6	2.22	0.73
3:AC:128:GLY:HA2	3:AC:137:LEU:HD21	1.70	0.73
4:AD:122:ASP:HB2	4:AD:124:LYS:HD3	1.70	0.73
5:AE:221:LYS:HZ3	5:AE:233:ARG:HG2	1.51	0.73
5:AE:223:LYS:O	5:AE:227:ALA:N	2.21	0.73
5:AE:308:VAL:HG12	5:AE:310:PHE:CE1	2.23	0.73
9:AJ:13:LEU:HB3	9:AJ:17:GLU:CB	2.18	0.73
10:AK:7:LYS:HE2	10:AK:12:LYS:NZ	2.01	0.73
10:AK:83:ALA:HA	10:AK:90:PHE:CD1	2.23	0.73
12:AM:18:ILE:HG23	12:AM:18:ILE:O	1.89	0.73
13:AN:105:GLU:HB2	13:AN:106:LEU:HD23	1.68	0.73
14:AO:120:LEU:HD12	14:AO:121:ILE:N	2.02	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:26:LEU:HD13	16:AQ:101:VAL:CG2	2.17	0.73
19:AT:52:VAL:HG22	19:AT:66:VAL:HG22	1.69	0.73
20:AU:103:LEU:HD11	20:AU:113:GLU:HB3	1.69	0.73
23:AX:5:LYS:HE2	23:AX:34:GLU:OE2	1.88	0.73
23:AX:38:GLU:HB2	23:AX:40:THR:HG22	1.71	0.73
24:A0:105:ARG:O	24:A0:107:ASP:N	2.19	0.73
34:BA:1230:C:O2'	34:BA:1231:G:H5'	1.89	0.73
34:BA:1494:G:C2	34:BA:1495:U:H5	2.00	0.73
35:BB:67:A:N1	35:BB:68:U:C4	2.56	0.73
36:B1:41:U:H2'	36:B1:42:G:H8	1.53	0.73
39:BG:19:LEU:O	39:BG:20:TYR:C	2.32	0.73
43:BK:6:ILE:CD1	43:BK:10:LEU:HD11	2.17	0.73
45:BM:24:VAL:HG13	45:BM:34:VAL:HG11	1.68	0.73
46:BN:60:ALA:O	46:BN:61:ALA:C	2.31	0.73
47:BO:60:LEU:HD23	47:BO:64:TYR:HB2	1.70	0.73
48:BP:20:THR:HA	48:BP:25:ILE:HG22	1.69	0.73
52:BT:10:VAL:HG12	52:BT:53:LEU:HA	1.69	0.73
53:BU:63:GLN:HA	53:BU:66:LEU:HD11	1.70	0.73
55:BW:50:GLU:H	55:BW:99:LEU:CG	2.00	0.73
1:AB:83:G:N1	1:AB:84:C:C4	2.57	0.73
2:AA:25:U:C2'	2:AA:26:G:H8	2.01	0.73
2:AA:81:G:C2'	2:AA:82:G:H5'	2.19	0.73
2:AA:84:A:OP2	20:AU:111:ARG:NH1	2.19	0.73
2:AA:182:A:C8	2:AA:182:A:OP2	2.41	0.73
2:AA:185:U:H5'	2:AA:217:G:N2	2.03	0.73
2:AA:185:U:H2'	2:AA:186:G:H8	1.53	0.73
2:AA:294:A:H8	2:AA:294:A:O5'	1.71	0.73
2:AA:396:G:OP1	28:A4:10:VAL:HG13	1.88	0.73
2:AA:479:A:N6	2:AA:481:G:N3	2.36	0.73
2:AA:571:A:N3	2:AA:573:G:N7	2.36	0.73
2:AA:608:A:H2'	2:AA:609:A:H5'	1.71	0.73
2:AA:1184:G:O2'	2:AA:1185:C:C5'	2.36	0.73
2:AA:1227:A:H2'	2:AA:1228:G:H5''	1.70	0.73
2:AA:1420:U:O2'	2:AA:1421:G:C8	2.41	0.73
2:AA:1664:A:N3	2:AA:2726:U:N3	2.35	0.73
2:AA:1666:G:O2'	2:AA:1667:G:H5'	1.89	0.73
2:AA:1729:A:H2'	2:AA:1730:U:H5'	1.71	0.73
2:AA:1822:G:H2'	2:AA:1823:G:C8	2.22	0.73
2:AA:1826:G:C6	2:AA:1827:C:H5	2.06	0.73
2:AA:1862:G:N1	2:AA:1880:C:N4	2.34	0.73
2:AA:1887:C:O2'	2:AA:1888:G:H5'	1.89	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2009:G:C4'	18:AS:40:ASN:HD21	2.01	0.73
2:AA:2245:U:O2	2:AA:2435:A:H3'	1.89	0.73
2:AA:2695:C:H2'	2:AA:2696:U:C6	2.22	0.73
4:AD:156:ALA:C	4:AD:196:ASN:HD22	1.97	0.73
6:AF:149:LYS:O	6:AF:152:GLU:HB2	1.88	0.73
6:AF:242:GLU:HA	6:AF:245:GLU:OE1	1.88	0.73
9:AI:24:LYS:O	9:AI:27:ASP:HB2	1.87	0.73
10:AK:5:PHE:HD2	10:AK:5:PHE:H	1.36	0.73
10:AK:116:GLU:HB2	10:AK:130:PRO:HG2	1.68	0.73
14:AO:52:LYS:HE2	14:AO:53:ARG:CZ	2.18	0.73
15:AP:47:GLU:OE1	15:AP:47:GLU:N	2.22	0.73
20:AU:48:VAL:O	20:AU:60:GLY:O	2.06	0.73
21:AV:41:ARG:H	21:AV:41:ARG:NE	1.86	0.73
22:AW:8:ILE:O	22:AW:11:MET:HB2	1.89	0.73
23:AX:5:LYS:CA	23:AX:36:VAL:HG12	2.18	0.73
23:AX:37:LEU:HB3	23:AX:43:ILE:HG21	1.70	0.73
24:A0:55:ALA:HB1	24:A0:79:LEU:HD21	1.71	0.73
25:A1:55:ARG:HA	25:A1:58:ARG:CG	2.19	0.73
26:A2:65:ARG:O	26:A2:93:ILE:HG13	1.87	0.73
34:BA:9:G:C8	40:BH:126:ARG:NH1	2.57	0.73
34:BA:80:G:N1	34:BA:89:C:O2	2.20	0.73
34:BA:174:C:C4	34:BA:175:C:N4	2.56	0.73
34:BA:175:C:H2'	34:BA:176:C:H6	1.52	0.73
34:BA:939:G:H5''	42:BJ:102:ARG:HH12	1.54	0.73
34:BA:1005:A:H2'	34:BA:1006:C:O4'	1.87	0.73
34:BA:1203:C:OP1	49:BQ:2:ALA:CB	2.36	0.73
34:BA:1329:A:P	48:BP:28:ALA:HB3	2.29	0.73
34:BA:1368:G:OP2	44:BL:112:LYS:HG2	1.88	0.73
34:BA:1371:G:O2'	34:BA:1372:U:H5'	1.89	0.73
37:BE:74:LYS:HE2	37:BE:76:GLN:CB	2.18	0.73
40:BH:109:ILE:CG2	40:BH:110:LEU:N	2.50	0.73
42:BJ:72:ARG:HH12	42:BJ:138:LYS:HZ1	0.81	0.73
45:BM:38:ILE:HG13	45:BM:71:LEU:HB3	1.69	0.73
46:BN:95:ILE:CA	46:BN:98:LEU:HD12	2.15	0.73
47:BO:35:GLY:O	47:BO:82:VAL:CA	2.35	0.73
52:BT:78:GLU:OE2	52:BT:81:ARG:HB2	1.89	0.73
53:BU:74:ARG:HG2	53:BU:74:ARG:HH11	1.53	0.73
55:BW:30:LYS:NZ	55:BW:30:LYS:CB	2.51	0.73
1:AB:56:G:H4'	1:AB:57:A:H5''	1.71	0.73
2:AA:265:A:N6	2:AA:428:A:C5	2.57	0.73
2:AA:605:C:H3'	6:AF:105:LYS:HZ3	1.51	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1162:G:H5''	26:A2:23:GLU:O	1.88	0.73
2:AA:1179:C:O2'	2:AA:1180:C:H6	1.71	0.73
2:AA:1233:C:H2'	2:AA:1234:U:O5'	1.89	0.73
2:AA:1529:A:C8	2:AA:1542:G:O6	2.42	0.73
2:AA:1664:A:C2	2:AA:1665:A:N7	2.55	0.73
2:AA:1718:G:C6	2:AA:1741:C:N4	2.57	0.73
2:AA:1802:A:OP1	2:AA:1814:G:N2	2.17	0.73
2:AA:1918:A:H3'	2:AA:1918:A:P	2.28	0.73
2:AA:1981:A:H3'	2:AA:1982:C:H5'	1.69	0.73
2:AA:2199:A:C4	2:AA:2225:A:C2	2.76	0.73
2:AA:2305:A:C2	7:AG:72:LYS:HE2	2.24	0.73
2:AA:2402:C:H5''	2:AA:2403:C:OP1	1.88	0.73
2:AA:2526:G:C5	2:AA:2527:C:C5	2.76	0.73
2:AA:2742:C:OP1	33:A9:35:ARG:HD3	1.88	0.73
3:AC:190:ARG:HA	3:AC:193:ILE:CD1	2.19	0.73
5:AE:267:ARG:HG3	5:AE:297:LYS:HB2	1.71	0.73
6:AF:4:THR:O	6:AF:139:VAL:CB	2.37	0.73
8:AH:168:VAL:O	8:AH:169:ARG:CZ	2.37	0.73
9:AJ:78:ARG:NH2	11:AL:59:THR:HG21	2.03	0.73
12:AM:77:GLY:O	12:AM:78:ILE:C	2.31	0.73
15:AP:65:ARG:NH2	15:AP:87:LYS:N	2.35	0.73
16:AQ:38:LYS:NZ	16:AQ:110:THR:HG21	2.03	0.73
16:AQ:47:LEU:HD12	16:AQ:58:LEU:CD2	2.18	0.73
19:AT:32:ALA:HB1	19:AT:37:VAL:HG23	1.71	0.73
21:AV:12:GLN:O	21:AV:15:ASP:O	2.07	0.73
21:AV:149:ALA:O	21:AV:152:ILE:CG1	2.35	0.73
25:A1:98:ILE:O	25:A1:99:ALA:C	2.31	0.73
26:A2:20:ILE:CG1	26:A2:67:LYS:HZ3	2.02	0.73
28:A4:59:PHE:HA	28:A4:62:ARG:NE	2.04	0.73
29:A5:57:VAL:HG12	29:A5:58:LEU:N	2.04	0.73
30:A6:7:ARG:O	30:A6:9:ILE:N	2.22	0.73
30:A6:34:LYS:HA	30:A6:53:LYS:NZ	2.04	0.73
34:BA:246:A:N6	34:BA:281:G:H21	1.86	0.73
34:BA:576:G:N7	34:BA:881:G:C1'	2.50	0.73
34:BA:673:G:H5''	41:BI:87:ARG:NE	2.04	0.73
34:BA:791:G:H22	34:BA:1498:U:P	2.12	0.73
34:BA:797:C:O2'	34:BA:798:G:H5'	1.88	0.73
34:BA:1090:U:O2'	34:BA:1091:U:C5'	2.37	0.73
35:BB:65:G:H2'	35:BB:66:A:H8	1.52	0.73
38:BF:156:ARG:N	38:BF:163:ALA:HB1	2.03	0.73
38:BF:178:LEU:O	38:BF:179:ARG:CB	2.37	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:148:VAL:HB	39:BG:181:MET:HE2	1.71	0.73
43:BK:83:ILE:CB	43:BK:137:VAL:HG22	2.18	0.73
43:BK:126:LYS:HZ3	43:BK:127:LEU:CG	2.01	0.73
48:BP:81:LEU:HD22	48:BP:82:MET:N	2.04	0.73
50:BR:62:GLN:NE2	50:BR:65:ARG:NH2	2.36	0.73
52:BT:66:SER:O	52:BT:70:ARG:NH1	2.22	0.73
53:BU:40:LEU:C	53:BU:42:ARG:N	2.44	0.73
2:AA:7:G:O6	2:AA:2896:C:N3	2.21	0.73
2:AA:71:A:H4'	2:AA:72:U:C3'	2.18	0.73
2:AA:83:G:O6	2:AA:102:G:N3	2.21	0.73
2:AA:195:A:H4'	2:AA:251:A:O4'	1.88	0.73
2:AA:252:G:O2'	2:AA:253:C:H5'	1.87	0.73
2:AA:315:G:H8	2:AA:315:G:O5'	1.71	0.73
2:AA:337:C:O3'	2:AA:338:G:H3'	1.88	0.73
2:AA:445:C:H3'	25:A1:3:ARG:NH2	2.03	0.73
2:AA:500:G:C2'	2:AA:501:A:H5''	2.19	0.73
2:AA:530:G:H1	2:AA:2021:C:C4'	2.00	0.73
2:AA:566:U:H3'	2:AA:567:A:C8	2.23	0.73
2:AA:711:G:H1	2:AA:720:C:H42	0.75	0.73
2:AA:725:G:N1	2:AA:726:G:N2	2.36	0.73
2:AA:741:G:H2'	2:AA:742:G:C8	2.23	0.73
2:AA:840:C:H5'	2:AA:1192:G:H1'	1.69	0.73
2:AA:988:A:OP2	23:AX:11:SER:HB3	1.87	0.73
2:AA:1857:G:H1	2:AA:1884:A:H61	1.36	0.73
2:AA:1882:C:C3'	2:AA:1883:G:H5'	2.17	0.73
2:AA:2059:A:N1	2:AA:2503:A:C5	2.57	0.73
2:AA:2638:G:H21	2:AA:2778:A:H62	1.36	0.73
2:AA:2849:U:O2'	2:AA:2850:A:OP2	2.05	0.73
3:AC:140:PRO:O	3:AC:142:ALA:N	2.20	0.73
4:AD:135:PRO:CG	4:AD:138:THR:HG21	2.17	0.73
6:AF:168:ARG:NH2	6:AF:209:GLY:HA2	2.03	0.73
13:AN:28:SER:O	13:AN:29:GLY:C	2.32	0.73
13:AN:49:GLY:HA3	13:AN:53:LYS:HE2	1.70	0.73
23:AX:3:ARG:HD3	23:AX:60:GLU:HB3	1.70	0.73
25:A1:33:ARG:C	25:A1:35:ALA:N	2.36	0.73
28:A4:41:PRO:HB3	28:A4:59:PHE:HE1	1.52	0.73
29:A5:18:MET:N	29:A5:18:MET:SD	2.59	0.73
30:A6:21:TYR:OH	30:A6:43:VAL:HG23	1.89	0.73
34:BA:22:G:H2'	34:BA:23:C:N1	2.04	0.73
34:BA:511:C:C6	34:BA:512:U:H5	2.07	0.73
34:BA:640:A:H2'	34:BA:641:U:C5'	2.18	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:757:U:H5'	34:BA:878:G:H21	1.53	0.73
34:BA:932:C:O2	34:BA:932:C:H2'	1.89	0.73
34:BA:3(A):G:H8	34:BA:3(A):G:O5'	1.71	0.73
34:BA:1157:A:C1'	34:BA:1181:G:H21	2.02	0.73
34:BA:1376:U:H5''	42:BJ:94:ARG:NH2	2.04	0.73
35:BB:37:G:C5	35:BB:38:A:N7	2.56	0.73
35:BB:51:G:H2'	35:BB:52:U:C6	2.23	0.73
35:BC:58:A:H2'	35:BC:61:C:H5	1.52	0.73
38:BF:12:LEU:HD22	38:BF:17:ASP:N	2.03	0.73
39:BG:12:CYS:HB3	39:BG:33:MET:CE	2.19	0.73
39:BG:98:GLU:O	39:BG:103:ASN:ND2	2.22	0.73
40:BH:17:ALA:HA	40:BH:26:PHE:HB3	1.70	0.73
41:BI:9:VAL:HG13	41:BI:60:PHE:HA	1.69	0.73
41:BI:76:ALA:HB1	41:BI:80:ARG:CZ	2.18	0.73
42:BJ:42:ILE:HG22	42:BJ:120:ILE:HD11	1.71	0.73
48:BP:23:TYR:CD2	48:BP:70:LEU:HD13	2.23	0.73
50:BR:43:LEU:HD11	50:BR:53:HIS:HA	1.69	0.73
52:BT:59:ILE:HD11	52:BT:72:ARG:C	2.13	0.73
52:BT:65:ILE:O	52:BT:65:ILE:HG13	1.87	0.73
2:AA:270(B):A:HO2'	2:AA:270(C):C:H6	0.75	0.73
2:AA:278:A:N1	2:AA:362:U:O4	2.22	0.73
2:AA:285:C:N4	2:AA:354:G:H22	1.87	0.73
2:AA:412:A:N6	2:AA:2410:G:H22	1.85	0.73
2:AA:440:G:H5''	20:AU:2:LYS:HB3	1.69	0.73
2:AA:531:C:N3	25:A1:28:ARG:NE	2.36	0.73
2:AA:541:C:C2	2:AA:542:C:C5	2.76	0.73
2:AA:996:A:C5'	25:A1:93:LYS:HG3	2.17	0.73
2:AA:1355:G:H22	2:AA:1377:G:C1'	2.00	0.73
2:AA:1799:G:N1	4:AD:153:LEU:HD21	2.03	0.73
2:AA:1853:A:N6	2:AA:1889:A:C8	2.56	0.73
2:AA:2013:A:O2'	2:AA:2014:A:H5'	1.88	0.73
2:AA:2056:G:C2	29:A5:4:HIS:O	2.42	0.73
2:AA:2514:U:H2'	2:AA:2515:C:H6	1.53	0.73
2:AA:2773:C:H2'	2:AA:2774:C:H6	1.53	0.73
2:AA:2856:C:N4	2:AA:2862:G:N1	2.36	0.73
4:AD:203:PRO:C	4:AD:204:PHE:HD1	1.95	0.73
5:AE:43:GLY:O	5:AE:309:PRO:CD	2.36	0.73
5:AE:220:GLN:OE1	5:AE:223:LYS:CE	2.37	0.73
6:AF:153:VAL:HG12	6:AF:157:LEU:HD21	1.71	0.73
7:AG:105:SER:OG	7:AG:131:THR:HG22	1.89	0.73
9:AI:78:ARG:HG2	9:AI:88:ALA:HB1	1.69	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:25:TYR:C	10:AK:29:PHE:CE1	2.67	0.73
10:AK:77:VAL:CG2	10:AK:141:LEU:HD11	2.17	0.73
12:AM:84:ARG:HA	12:AM:98:PHE:HE2	1.54	0.73
13:AN:11:ALA:CA	13:AN:99:PHE:CB	2.67	0.73
13:AN:99:PHE:CD2	17:AR:24:LYS:HE2	2.24	0.73
15:AP:41:THR:O	15:AP:125:TRP:HZ3	1.72	0.73
20:AU:52:ARG:HD2	20:AU:95:ASN:CG	2.13	0.73
21:AV:19:ILE:HD11	21:AV:79:ILE:CD1	2.19	0.73
21:AV:123:VAL:HG12	21:AV:161:ALA:N	2.03	0.73
25:A1:44:THR:O	25:A1:48:ARG:HG3	1.88	0.73
26:A2:69:ILE:HA	26:A2:90:PHE:O	1.87	0.73
32:A8:4:MET:CB	32:A8:7:HIS:HE1	1.96	0.73
32:A8:26:LYS:HG3	32:A8:45:GLY:N	2.04	0.73
34:BA:20:U:O4'	34:BA:572:A:C2	2.42	0.73
34:BA:245:C:N3	34:BA:284:G:N1	2.37	0.73
34:BA:499:A:O2'	34:BA:500:G:C8	2.42	0.73
34:BA:894:G:H2'	34:BA:895:G:C8	2.23	0.73
34:BA:914:A:H2'	34:BA:915:A:C8	2.24	0.73
34:BA:922:G:H5''	40:BH:20:GLN:HE21	1.53	0.73
34:BA:1239:A:H62	34:BA:1299:A:N6	1.86	0.73
34:BA:1406:U:H2'	34:BA:1406:U:O2	1.87	0.73
35:BB:6:U:N3	35:BB:7:U:C5	2.56	0.73
35:BB:34:G:N2	36:B1:66:G:C5	2.56	0.73
36:B1:46:A:H5''	36:B1:47:U:C5	2.24	0.73
37:BE:75:LYS:HA	37:BE:78:GLN:HB2	1.71	0.73
38:BF:17:ASP:HB3	38:BF:18:TRP:HE3	1.53	0.73
40:BH:139:LEU:O	40:BH:142:LEU:HD12	1.89	0.73
42:BJ:111:ARG:HD2	42:BJ:123:GLU:OE2	1.89	0.73
44:BL:11:LYS:CD	44:BL:108:VAL:HG11	2.19	0.73
49:BQ:39:LEU:HD13	49:BQ:47:LEU:HD12	1.70	0.73
1:AB:60:C:H2'	1:AB:61:G:C8	2.23	0.73
1:AB:71:C:O2	1:AB:72:G:C1'	2.36	0.73
2:AA:13:A:C2	2:AA:526:A:N7	2.57	0.73
2:AA:71:A:C2	2:AA:73:A:C8	2.77	0.73
2:AA:146:G:H2'	2:AA:147:U:O4'	1.88	0.73
2:AA:295:G:OP1	2:AA:338:G:N1	2.22	0.73
2:AA:475:U:O2'	2:AA:476:G:H5'	1.87	0.73
2:AA:586:A:H5'	6:AF:90:HIS:NE2	2.04	0.73
2:AA:653:A:H3'	2:AA:654:A:O3'	1.89	0.73
2:AA:916:G:H8	2:AA:916:G:O5'	1.70	0.73
2:AA:1007:C:H5''	2:AA:1008:C:OP2	1.89	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1388:G:N2	2:AA:1389:G:H1'	2.04	0.73
2:AA:1527:G:H1	2:AA:1544:C:H42	0.77	0.73
2:AA:1904:G:O2'	2:AA:1927:A:N6	2.22	0.73
2:AA:1917:U:C6	2:AA:1917:U:C3'	2.68	0.73
2:AA:2055:C:OP1	2:AA:2056:G:H4'	1.88	0.73
2:AA:2183:C:H2'	2:AA:2184:G:H8	1.53	0.73
2:AA:2330:G:N2	2:AA:2385:C:N4	2.35	0.73
2:AA:2730:C:H2'	2:AA:2731:G:H8	1.54	0.73
2:AA:2747:G:N2	2:AA:2754:U:H3	1.86	0.73
2:AA:2878:U:OP2	2:AA:2878:U:C6	2.41	0.73
4:AD:60:GLN:N	4:AD:62:ARG:HH11	1.86	0.73
6:AF:162:VAL:HG12	6:AF:164:ALA:N	2.03	0.73
8:AH:49:ILE:HD12	8:AH:49:ILE:H	1.53	0.73
9:AJ:71:ILE:HA	11:AL:61:TYR:CG	2.24	0.73
12:AM:14:ALA:N	12:AM:40:ASN:ND2	2.36	0.73
12:AM:88:PRO:HD2	12:AM:94:GLY:CA	2.17	0.73
13:AN:43:VAL:CG2	13:AN:56:GLN:HB2	2.17	0.73
14:AO:71:GLU:HG3	14:AO:72:ASN:H	1.52	0.73
17:AR:49:LEU:C	17:AR:49:LEU:CD2	2.59	0.73
20:AU:71:VAL:HG23	20:AU:93:THR:HG23	1.70	0.73
26:A2:20:ILE:CG2	26:A2:67:LYS:HZ3	2.02	0.73
26:A2:87:ARG:O	26:A2:88:GLN:O	2.06	0.73
26:A2:95:ILE:HD12	26:A2:95:ILE:N	2.04	0.73
34:BA:266:G:H4'	34:BA:267:C:C5	2.23	0.73
34:BA:772:U:H2'	34:BA:773:G:H8	1.51	0.73
35:BB:34:G:C2'	35:BB:35:A:C5'	2.54	0.73
38:BF:126:ARG:HB2	38:BF:128:PHE:CZ	2.24	0.73
41:BI:69:GLU:O	41:BI:72:VAL:CG2	2.36	0.73
43:BK:14:ARG:HH11	43:BK:14:ARG:CB	2.01	0.73
43:BK:45:ILE:CD1	43:BK:48:TYR:HB3	2.19	0.73
50:BR:70:LEU:HG	50:BR:78:TYR:CD1	2.24	0.73
54:BV:62:ILE:CD1	54:BV:66:MET:HG3	2.18	0.73
2:AA:58:G:N2	2:AA:69:C:N3	2.36	0.73
2:AA:284:U:C4	2:AA:357:A:N6	2.54	0.73
2:AA:292:C:O2	2:AA:348:G:N1	2.17	0.73
2:AA:575:A:O2'	2:AA:576:U:H5'	1.89	0.73
2:AA:771:G:H2'	2:AA:772:C:C5	2.23	0.73
2:AA:771:G:C6	2:AA:772:C:N4	2.57	0.73
2:AA:929:G:H1'	23:AX:43:ILE:CD1	2.19	0.73
2:AA:1020:A:H1'	12:AM:49:ARG:NH2	2.03	0.73
2:AA:1084:A:O3'	9:AI:34:ALA:HB1	1.89	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1219:G:O6	2:AA:1230:C:N3	2.22	0.73
2:AA:1420:U:O2'	2:AA:1421:G:H8	1.72	0.73
2:AA:1508:A:H5''	2:AA:1510:A:C5	2.24	0.73
2:AA:1598:C:OP1	19:AT:34:LYS:HG3	1.89	0.73
2:AA:1655:A:C4'	5:AE:211:GLN:HA	2.19	0.73
2:AA:1691:C:H2'	2:AA:1691:C:O2	1.87	0.73
2:AA:1790:C:O2	2:AA:1791:A:N7	2.21	0.73
2:AA:1872:A:H2'	2:AA:1878:G:H5'	1.70	0.73
2:AA:1913:A:N7	2:AA:1918:A:N6	2.37	0.73
2:AA:2014:A:C5	2:AA:2015:A:N1	2.57	0.73
2:AA:2209:C:O2'	2:AA:2210:G:C8	2.37	0.73
2:AA:2246:G:N2	2:AA:2247:A:C5	2.57	0.73
2:AA:2355:C:H42	2:AA:2362:G:H1	0.77	0.73
2:AA:2380:C:C2'	2:AA:2381:C:H5'	2.19	0.73
2:AA:2739:U:C6	2:AA:2739:U:C3'	2.66	0.73
5:AE:107:GLU:HB3	5:AE:110:ARG:CD	2.19	0.73
5:AE:200:ASP:CG	5:AE:264:LEU:HA	2.13	0.73
7:AG:76:ARG:O	7:AG:80:ALA:HB3	1.89	0.73
8:AH:83:GLU:CD	8:AH:83:GLU:C	2.57	0.73
8:AH:167:LEU:N	8:AH:167:LEU:HD23	2.04	0.73
9:AJ:106:VAL:HG11	9:AJ:114:ILE:HD11	1.71	0.73
10:AK:3:VAL:O	10:AK:18:ILE:CA	2.31	0.73
10:AK:29:PHE:HD2	10:AK:30:LEU:CG	2.02	0.73
10:AK:115:ILE:CA	10:AK:131:VAL:HG13	2.18	0.73
12:AM:23:ALA:O	12:AM:26:VAL:N	2.22	0.73
13:AN:103:ALA:C	13:AN:105:GLU:H	1.94	0.73
18:AS:36:LEU:HD13	18:AS:48:ALA:N	2.04	0.73
22:AW:30:ALA:HA	22:AW:34:GLN:HG2	1.70	0.73
24:A0:52:ILE:HG22	24:A0:53:HIS:N	2.03	0.73
26:A2:19:VAL:HG12	26:A2:21:ARG:NH2	2.02	0.73
27:A3:43:THR:OG1	27:A3:44:LYS:N	2.19	0.73
27:A3:58:THR:O	27:A3:60:PHE:N	2.19	0.73
29:A5:45:ILE:HD12	29:A5:45:ILE:N	2.02	0.73
30:A6:19:GLY:O	30:A6:42:PRO:HB2	1.89	0.73
33:A9:19:ARG:HD2	33:A9:24:LEU:HD12	1.69	0.73
34:BA:20:U:N3	34:BA:21:G:C5	2.57	0.73
34:BA:115:G:C2	34:BA:313:A:C2	2.77	0.73
34:BA:317:G:O2'	34:BA:318:G:H5'	1.88	0.73
34:BA:342:C:C2	34:BA:348:G:N2	2.57	0.73
34:BA:713:G:C2'	34:BA:714:G:C8	2.72	0.73
34:BA:719:C:H3'	34:BA:720:C:C6	2.22	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:811:C:O2'	34:BA:901:A:N1	2.22	0.73
34:BA:965:A:H4'	34:BA:966:G:OP1	1.87	0.73
34:BA:1412:C:H42	34:BA:1488:G:H1	1.35	0.73
35:BB:30:G:H8	35:BB:30:G:O5'	1.71	0.73
38:BF:78:GLY:O	38:BF:80:GLY:N	2.22	0.73
38:BF:153:VAL:CB	38:BF:166:GLU:HB3	2.17	0.73
39:BG:101:LEU:N	39:BG:138:TYR:O	2.19	0.73
39:BG:133:VAL:CG1	39:BG:138:TYR:HB2	2.18	0.73
40:BH:84:PHE:CE1	40:BH:133:TYR:HB3	2.23	0.73
41:BI:10:LEU:HD12	41:BI:10:LEU:H	1.52	0.73
42:BJ:111:ARG:HD2	42:BJ:123:GLU:HB2	1.70	0.73
43:BK:109:ILE:HG23	43:BK:137:VAL:O	1.88	0.73
44:BL:15:ALA:HB2	44:BL:76:ALA:HB3	1.71	0.73
48:BP:88:ARG:O	48:BP:91:ARG:HB2	1.88	0.73
48:BP:90:LEU:HD23	48:BP:93:ARG:NH1	2.01	0.73
50:BR:17:ARG:HD3	50:BR:77:ARG:NE	2.04	0.73
2:AA:137(A):G:H1	2:AA:139:G:N2	1.87	0.72
2:AA:273(E):U:H3	2:AA:363(A):A:H2	1.36	0.72
2:AA:323:G:OP2	2:AA:340:A:H2	1.71	0.72
2:AA:383:U:O2	2:AA:385:C:N4	2.22	0.72
2:AA:460:A:C8	2:AA:461:C:C5	2.77	0.72
2:AA:971:C:OP2	2:AA:974(A):C:O2	2.06	0.72
2:AA:1014:U:H2'	2:AA:1015:G:O5'	1.89	0.72
2:AA:1135:C:O2	2:AA:2038:G:H4'	1.89	0.72
2:AA:1222:C:C4	2:AA:1223:C:H5	2.06	0.72
2:AA:1449:A:C2	2:AA:449(A):G:C1'	2.71	0.72
2:AA:1933:G:O2'	2:AA:1934:C:H5'	1.88	0.72
2:AA:1951:U:O2	2:AA:1951:U:H2'	1.88	0.72
2:AA:2330:G:C2	2:AA:2386:C:N4	2.56	0.72
2:AA:2348:U:C5'	32:A8:42:ARG:HH22	2.02	0.72
2:AA:2464:C:H2'	2:AA:2465:C:O5'	1.88	0.72
2:AA:2648:C:N3	2:AA:2672:G:N2	2.32	0.72
2:AA:2706:G:H2'	2:AA:2707:G:O5'	1.89	0.72
2:AA:2726:U:O3'	2:AA:2727:G:H8	1.71	0.72
2:AA:2795:G:H2'	2:AA:2795:G:N3	2.04	0.72
2:AA:2841:C:C2'	2:AA:2842:G:C8	2.68	0.72
4:AD:146:LYS:CD	4:AD:147:PRO:HD2	2.19	0.72
5:AE:83:LEU:HD13	5:AE:178:LEU:HD22	1.69	0.72
5:AE:216:ARG:C	5:AE:217:TRP:CD1	2.67	0.72
5:AE:303:PRO:HB2	5:AE:307:LEU:HD13	1.70	0.72
6:AF:197:SER:HB2	6:AF:238:SER:HB2	1.71	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:90:LEU:CD1	48:BP:3:ARG:HH12	1.97	0.72
10:AK:66:LYS:O	10:AK:69:LYS:HB3	1.88	0.72
11:AL:121:LEU:HA	11:AL:125:MET:HE2	1.70	0.72
14:AO:94:ARG:HB2	14:AO:120:LEU:HD22	1.71	0.72
15:AP:49:VAL:CG1	15:AP:50:VAL:N	2.51	0.72
16:AQ:59:ALA:HB3	16:AQ:91:ARG:HH22	1.53	0.72
17:AR:10:GLY:HA3	17:AR:53:ASP:H	1.52	0.72
19:AT:29:ASP:C	19:AT:30:ASP:CG	2.56	0.72
21:AV:14:LEU:HD23	21:AV:79:ILE:HD13	1.71	0.72
24:A0:58:GLY:CA	24:A0:80:PHE:HE2	1.92	0.72
25:A1:59:ARG:HA	25:A1:62:ILE:CG1	2.19	0.72
28:A4:55:ARG:O	28:A4:61:LYS:NZ	2.20	0.72
32:A8:12:ARG:HD3	32:A8:13:ARG:HD2	1.71	0.72
34:BA:22:G:C2'	34:BA:23:C:O4'	2.37	0.72
34:BA:552:U:O2'	34:BA:553:A:H5'	1.89	0.72
34:BA:559:A:O2'	34:BA:560:U:OP2	2.06	0.72
34:BA:611:A:H61	34:BA:629:G:H1	1.37	0.72
34:BA:688:G:C2'	34:BA:689:C:H5'	2.18	0.72
34:BA:772:U:O2'	34:BA:773:G:H5'	1.89	0.72
34:BA:775:G:O2'	34:BA:776:G:H5'	1.88	0.72
34:BA:975:A:C5'	34:BA:976:G:H5'	2.19	0.72
34:BA:1058:G:H2'	34:BA:1059:C:O4'	1.89	0.72
34:BA:1068:G:O2'	34:BA:1069:C:H5'	1.88	0.72
34:BA:1504:G:OP2	34:BA:1504:G:H3'	1.89	0.72
40:BH:78:HIS:CB	43:BK:104:ARG:HD2	2.04	0.72
44:BL:50:LEU:CD1	44:BL:56:LEU:HA	2.19	0.72
45:BM:34:VAL:HA	45:BM:74:ILE:HG12	1.70	0.72
48:BP:48:LEU:CD2	48:BP:52:GLU:HB2	2.18	0.72
49:BQ:6:LEU:O	49:BQ:8:GLU:HG2	1.89	0.72
51:BS:1:MET:HE3	51:BS:1:MET:C	2.13	0.72
53:BU:25:THR:HG22	53:BU:42:ARG:NH2	2.03	0.72
53:BU:53:ARG:O	53:BU:55:ARG:N	2.21	0.72
54:BV:36:ARG:NE	54:BV:72:GLY:HA2	2.03	0.72
55:BW:14:LYS:O	55:BW:15:ARG:C	2.32	0.72
56:BX:9:ARG:O	56:BX:10:ARG:C	2.31	0.72
2:AA:59:U:H5''	2:AA:59:U:H6	1.54	0.72
2:AA:287:C:H2'	2:AA:288:C:C6	2.24	0.72
2:AA:534:U:C5'	25:A1:46:GLU:HG2	2.18	0.72
2:AA:565:C:O2'	2:AA:1253:A:C2	2.41	0.72
2:AA:591:C:C4	2:AA:592:G:N7	2.57	0.72
2:AA:684:G:O2'	2:AA:788:A:N6	2.21	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:976:C:N4	2:AA:987:G:H1	1.86	0.72
2:AA:1222:C:C2'	2:AA:1223:C:H5'	2.19	0.72
2:AA:1416:G:N3	2:AA:1583:A:N1	2.38	0.72
2:AA:1488:G:C2'	2:AA:1489:U:H5'	2.18	0.72
2:AA:1583:A:H5'	2:AA:1585:C:OP1	1.90	0.72
2:AA:1614:A:N6	18:AS:88:ARG:CB	2.50	0.72
2:AA:1665:A:HO2'	13:AN:67:ARG:CZ	2.02	0.72
2:AA:1763:G:H2'	2:AA:1764:G:O5'	1.88	0.72
2:AA:1804:C:N4	2:AA:1813:G:H1	1.87	0.72
2:AA:1912:A:N1	2:AA:1919:A:C8	2.57	0.72
2:AA:2181:G:N2	2:AA:2182:G:O4'	2.21	0.72
2:AA:2239:G:H2'	2:AA:2240:C:H6	1.54	0.72
2:AA:2342:C:O2	2:AA:2374:C:H5''	1.87	0.72
2:AA:2542:A:C5'	2:AA:2543:G:OP1	2.37	0.72
2:AA:2585:U:H1'	35:BC:76:A:N7	2.04	0.72
2:AA:2626:C:H2'	2:AA:2627:G:C8	2.24	0.72
2:AA:2711:A:OP1	2:AA:712(A):A:P	2.47	0.72
2:AA:2753:A:O2'	2:AA:2754:U:H5'	1.89	0.72
2:AA:2866:U:H1'	2:AA:2868:A:O4'	1.89	0.72
3:AC:22:ILE:HB	3:AC:190:ARG:HH22	1.54	0.72
3:AC:33:ALA:HB1	3:AC:39:GLU:HB3	1.69	0.72
4:AD:186:LYS:O	4:AD:186:LYS:HG2	1.89	0.72
5:AE:175:ASP:O	5:AE:178:LEU:N	2.22	0.72
6:AF:153:VAL:HG21	6:AF:207:LEU:HD11	1.71	0.72
7:AG:24:HIS:O	7:AG:129:ASP:HB3	1.88	0.72
7:AG:105:SER:HG	7:AG:131:THR:HA	1.52	0.72
9:AJ:89:LYS:HE3	11:AL:59:THR:HB	1.70	0.72
13:AN:47:THR:CB	13:AN:48:PRO:HD2	2.19	0.72
13:AN:66:LYS:CE	13:AN:82:ASN:ND2	2.37	0.72
21:AV:19:ILE:HG13	21:AV:79:ILE:HA	1.70	0.72
25:A1:11:ARG:HG2	25:A1:12:ARG:N	2.00	0.72
26:A2:6:GLN:HE22	26:A2:10:LYS:HB3	1.53	0.72
26:A2:34:GLU:C	26:A2:63:HIS:CE1	2.67	0.72
28:A4:19:GLN:HB3	28:A4:30:GLU:O	1.89	0.72
34:BA:173:U:C5'	34:BA:197:A:O4'	2.37	0.72
34:BA:197:A:OP2	34:BA:197:A:H3'	1.88	0.72
34:BA:340:U:H2'	34:BA:341:C:C6	2.24	0.72
34:BA:445:G:H2'	34:BA:446:G:H8	1.53	0.72
34:BA:735:C:H5'	53:BU:71:LYS:HD3	1.71	0.72
34:BA:894:G:C4	34:BA:895:G:C8	2.77	0.72
34:BA:950:U:O2'	34:BA:951:G:H5'	1.89	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1234:C:H1'	34:BA:1364:U:O2	1.89	0.72
34:BA:1350:A:H2'	34:BA:1351:U:C6	2.25	0.72
34:BA:1451:A:H5''	34:BA:1452:C:N4	2.04	0.72
36:B1:17:G:N2	36:B1:39:A:H61	1.86	0.72
37:BE:187:LEU:HD13	37:BE:187:LEU:C	2.13	0.72
39:BG:200:GLU:O	39:BG:201:GLN:C	2.32	0.72
43:BK:6:ILE:HD13	43:BK:6:ILE:C	2.13	0.72
43:BK:26:VAL:CG2	43:BK:27:PRO:HD2	2.16	0.72
43:BK:111:ILE:HD12	43:BK:135:CYS:O	1.89	0.72
47:BO:26:ALA:O	47:BO:27:LEU:O	2.07	0.72
48:BP:14:ARG:HD3	48:BP:41:PRO:O	1.88	0.72
2:AA:35:G:O4'	2:AA:454:A:C1'	2.37	0.72
2:AA:209:C:C2'	2:AA:210:C:H5'	2.19	0.72
2:AA:466:A:C2'	2:AA:467:G:H5'	2.19	0.72
2:AA:503:A:O2'	2:AA:506:G:OP2	2.06	0.72
2:AA:528:A:H2	2:AA:2043:C:H4'	1.54	0.72
2:AA:684:G:N2	2:AA:794:G:C2	2.57	0.72
2:AA:698:C:H6	2:AA:698:C:H5'	1.53	0.72
2:AA:919:G:C2'	2:AA:920:G:H8	2.00	0.72
2:AA:1080:C:H1'	11:AL:127:ILE:HA	1.71	0.72
2:AA:1203:G:H3'	2:AA:1203:G:N3	2.04	0.72
2:AA:1294:U:H2'	2:AA:1294:U:O2	1.89	0.72
2:AA:1526:G:N2	2:AA:1546:C:C4	2.57	0.72
2:AA:1602:U:H3'	2:AA:1602:U:C6	2.25	0.72
2:AA:1609:A:C6	2:AA:1616:A:H2	2.06	0.72
2:AA:1732:A:OP1	2:AA:1733:G:N7	2.22	0.72
2:AA:1819:A:OP2	4:AD:153:LEU:HG	1.89	0.72
2:AA:1913:A:N1	2:AA:1917:U:O4	2.22	0.72
2:AA:1952:A:C5	2:AA:1953:A:C2	2.76	0.72
2:AA:2638:G:N2	2:AA:2778:A:H62	1.86	0.72
3:AC:133:PRO:HG3	3:AC:134:ARG:NH1	2.03	0.72
4:AD:107:LYS:HB3	4:AD:193:GLU:HB2	1.69	0.72
5:AE:70:VAL:HG13	5:AE:71:THR:H	1.53	0.72
6:AF:200:PRO:HB3	6:AF:205:ARG:HD3	1.70	0.72
10:AK:54:GLU:OE1	10:AK:54:GLU:HA	1.88	0.72
13:AN:22:ILE:HB	13:AN:40:VAL:HG12	1.69	0.72
14:AO:66:VAL:HB	14:AO:67:ARG:NH2	2.04	0.72
15:AP:45:GLN:CB	15:AP:152:SER:O	2.36	0.72
15:AP:48:ASN:ND2	15:AP:122:PHE:N	2.37	0.72
16:AQ:19:ASP:O	16:AQ:20:TYR:C	2.32	0.72
18:AS:5:ALA:HB2	18:AS:54:ALA:CB	2.08	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:32:ALA:HA	18:AS:35:ILE:HG13	1.70	0.72
23:AX:13:ILE:HD13	23:AX:13:ILE:H	1.53	0.72
23:AX:53:LEU:O	23:AX:54:VAL:CG1	2.36	0.72
24:A0:77:ARG:HB2	24:A0:77:ARG:NH1	2.04	0.72
24:A0:105:ARG:CZ	24:A0:105:ARG:N	2.52	0.72
25:A1:43:ALA:HB1	26:A2:75:LYS:HB2	1.69	0.72
28:A4:6:HIS:CE1	28:A4:55:ARG:HB2	2.24	0.72
29:A5:34:PRO:HG2	29:A5:35:GLN:N	2.04	0.72
30:A6:38:LYS:O	30:A6:50:PHE:HB2	1.89	0.72
32:A8:16:ILE:HG13	32:A8:22:VAL:CG2	2.19	0.72
34:BA:440:A:C6	34:BA:495:U:C5	2.77	0.72
34:BA:513:C:C2	34:BA:514:C:C5	2.77	0.72
34:BA:862:C:H1'	34:BA:874:G:C5'	2.20	0.72
34:BA:1044:A:H2'	34:BA:1045:C:C4'	2.18	0.72
34:BA:1255:G:O2'	34:BA:1258:G:H1'	1.88	0.72
35:BB:31:A:H5''	35:BB:31:A:C8	2.24	0.72
35:BC:57:G:H2'	35:BC:58:A:C5'	2.20	0.72
37:BE:14:GLY:HA3	37:BE:209:ARG:CZ	2.19	0.72
38:BF:42:LEU:HD12	38:BF:94:LEU:HD12	1.70	0.72
39:BG:120:LEU:HD11	39:BG:125:HIS:HB2	1.70	0.72
40:BH:9:LYS:HD2	40:BH:112:LEU:HD23	1.71	0.72
40:BH:78:HIS:HB3	43:BK:107:LEU:HD11	1.71	0.72
48:BP:20:THR:HG23	48:BP:25:ILE:O	1.89	0.72
53:BU:70:ILE:HG22	53:BU:74:ARG:HE	1.51	0.72
2:AA:70:G:OP1	2:AA:112:U:N3	2.22	0.72
2:AA:133:C:O2'	2:AA:134:C:H5'	1.89	0.72
2:AA:142:G:OP1	2:AA:1596:A:H5''	1.90	0.72
2:AA:567:A:C2	2:AA:568:U:H1'	2.25	0.72
2:AA:974:G:OP2	2:AA:1188:U:C6	2.42	0.72
2:AA:1029:A:O2'	2:AA:1030:G:OP1	2.06	0.72
2:AA:1084:A:N7	9:AI:25:LEU:HD13	2.04	0.72
2:AA:1140:C:N3	12:AM:49:ARG:CZ	2.52	0.72
2:AA:1173:G:H1'	2:AA:1177:A:N1	2.03	0.72
2:AA:1299:G:H4'	2:AA:1301:A:C2	2.20	0.72
2:AA:1299:G:O2'	2:AA:1301:A:C2	2.40	0.72
2:AA:1316:U:O2'	2:AA:1317:A:H5'	1.89	0.72
2:AA:1470:G:H2'	2:AA:1519:G:O6	1.90	0.72
2:AA:1515:C:H6	2:AA:1515:C:OP1	1.71	0.72
2:AA:1792:G:N1	2:AA:1827:C:N4	2.38	0.72
2:AA:1809:A:H2'	2:AA:1810:A:H5'	1.71	0.72
2:AA:1831:G:H2'	2:AA:1832:C:C6	2.23	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1950:G:C5	2:AA:1951:U:H5	2.07	0.72
2:AA:1986:A:N1	2:AA:1987:G:C5	2.57	0.72
2:AA:2268:A:H5'	2:AA:2269:A:OP2	1.90	0.72
2:AA:2345:G:N2	2:AA:2382:G:OP2	2.22	0.72
2:AA:2422:A:H2'	2:AA:2424:C:H5	1.55	0.72
2:AA:2661:G:H2'	2:AA:2662:A:H8	1.48	0.72
2:AA:2820:A:N7	5:AE:304:ASP:OD2	2.22	0.72
3:AC:46:LYS:HB2	3:AC:210:ARG:HB2	1.71	0.72
4:AD:77:VAL:HG11	4:AD:109:LEU:O	1.89	0.72
4:AD:145:LEU:HD23	4:AD:183:ILE:HG12	1.70	0.72
4:AD:169:LYS:NZ	4:AD:169:LYS:N	2.34	0.72
4:AD:208:GLY:O	4:AD:209:ASN:C	2.32	0.72
5:AE:107:GLU:HB3	5:AE:110:ARG:NE	2.04	0.72
6:AF:61:PHE:HB3	6:AF:65:ARG:CZ	2.19	0.72
7:AG:28:GLY:HA2	7:AG:69:ILE:CG2	2.18	0.72
7:AG:136:ARG:HD2	7:AG:136:ARG:H	1.54	0.72
9:AI:42:ALA:HB2	9:AJ:42:ALA:HB2	1.70	0.72
10:AK:32:LYS:O	10:AK:33:GLN:C	2.31	0.72
10:AK:40:THR:O	10:AK:41:PRO:C	2.27	0.72
12:AM:88:PRO:HD2	12:AM:94:GLY:HA3	1.71	0.72
14:AO:94:ARG:HB2	14:AO:120:LEU:CD1	2.18	0.72
14:AO:141:GLU:C	14:AO:145:LEU:HD13	2.14	0.72
17:AR:14:GLU:CG	17:AR:15:PRO:HD2	2.20	0.72
17:AR:15:PRO:HB2	17:AR:17:THR:OG1	1.89	0.72
17:AR:49:LEU:HD22	17:AR:54:THR:HG23	1.67	0.72
19:AT:7:HIS:O	19:AT:26:PHE:HB3	1.88	0.72
19:AT:47:VAL:HB	19:AT:69:SER:HB2	1.72	0.72
20:AU:9:LYS:O	20:AU:13:ARG:HB2	1.89	0.72
21:AV:6:LYS:HD3	21:AV:30:VAL:HG11	1.71	0.72
21:AV:65:LEU:O	21:AV:83:PHE:HA	1.89	0.72
25:A1:27:SER:C	25:A1:29:SER:H	1.96	0.72
26:A2:59:GLU:OE1	26:A2:99:GLN:HA	1.89	0.72
27:A3:39:ARG:N	27:A3:69:PHE:HZ	1.86	0.72
28:A4:48:ARG:HG3	28:A4:49:PHE:CD1	2.23	0.72
29:A5:29:ASN:O	29:A5:30:LEU:O	2.07	0.72
29:A5:34:PRO:CD	29:A5:35:GLN:H	2.01	0.72
34:BA:519:C:N4	34:BA:520:A:C2	2.57	0.72
34:BA:776:G:C5'	34:BA:777:A:OP1	2.34	0.72
34:BA:1396:A:H4'	34:BA:1398:A:O4'	1.89	0.72
34:BA:1451:A:H5''	34:BA:1452:C:C4	2.24	0.72
37:BE:82:ARG:HA	37:BE:92:TYR:HE1	1.49	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:170:VAL:HG21	39:BG:176:LEU:CB	2.20	0.72
41:BI:1:MET:SD	41:BI:68:PRO:CD	2.77	0.72
41:BI:27:GLN:CA	41:BI:30:LEU:HD13	2.19	0.72
44:BL:97:LYS:HZ3	44:BL:102:LEU:HD11	1.52	0.72
51:BS:20:VAL:CG1	51:BS:21:VAL:N	2.52	0.72
2:AA:106:C:H2'	2:AA:107:C:C5'	2.19	0.72
2:AA:280:C:O2'	2:AA:281:G:C4	2.43	0.72
2:AA:318:C:O2'	2:AA:319:C:H5'	1.90	0.72
2:AA:385:C:O5'	2:AA:385:C:H6	1.72	0.72
2:AA:462:C:C4	2:AA:468:G:N2	2.57	0.72
2:AA:687:C:N4	2:AA:775:G:H1	1.86	0.72
2:AA:735:A:H2'	2:AA:736:C:H5'	1.71	0.72
2:AA:791:C:C5	2:AA:794:G:O4'	2.43	0.72
2:AA:849:A:O2'	2:AA:850:C:H5'	1.89	0.72
2:AA:1011:G:O6	2:AA:1150:C:N3	2.23	0.72
2:AA:1246:A:N1	2:AA:1247:A:C2	2.57	0.72
2:AA:1391:U:N3	2:AA:1394:U:C5	2.58	0.72
2:AA:1513:C:H2'	2:AA:1514:U:H5	1.55	0.72
2:AA:1572:A:O2'	2:AA:1573:G:OP1	2.06	0.72
2:AA:1631:A:N6	2:AA:1683:C:H5'	2.04	0.72
2:AA:2115:G:O3'	3:AC:126:LYS:HB2	1.90	0.72
2:AA:2136:C:H5''	2:AA:2137:C:OP2	1.89	0.72
2:AA:2398:U:H2'	2:AA:2399:G:H8	1.54	0.72
2:AA:2678:C:H2'	2:AA:2679:A:O4'	1.88	0.72
2:AA:2733:A:H2'	2:AA:2734:A:O5'	1.89	0.72
2:AA:2821:A:H3'	2:AA:2821:A:P	2.29	0.72
2:AA:2838:G:O2'	2:AA:2839:G:H5'	1.89	0.72
2:AA:2845:G:O2'	2:AA:2846:G:C5'	2.36	0.72
4:AD:66:PHE:N	4:AD:67:LYS:HZ3	1.87	0.72
8:AH:83:GLU:HB2	8:AH:133:LYS:CG	2.18	0.72
10:AK:5:PHE:CG	10:AK:17:GLU:O	2.43	0.72
10:AK:26:ALA:HA	10:AK:29:PHE:CE2	2.23	0.72
12:AM:58:GLU:HG3	12:AM:139:LEU:HD12	1.70	0.72
14:AO:109:LEU:HD13	14:AO:110:GLY:N	2.03	0.72
25:A1:98:ILE:HD12	25:A1:101:ARG:HG3	1.70	0.72
27:A3:30:VAL:HG23	27:A3:62:LEU:HB3	1.71	0.72
27:A3:37:LEU:HD11	27:A3:71:ASN:ND2	2.05	0.72
34:BA:313:A:H2'	34:BA:314:C:C5	2.24	0.72
34:BA:370:C:O2'	34:BA:371:G:C5'	2.32	0.72
34:BA:542:G:N2	34:BA:543:C:C2	2.57	0.72
34:BA:563:A:H4'	34:BA:565:U:H5	1.54	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:727:G:N2	34:BA:731:G:C4	2.57	0.72
34:BA:1192:C:N4	34:BA:1193:G:C6	2.57	0.72
34:BA:1261:A:H5'	34:BA:1283:G:O3'	1.88	0.72
34:BA:1422:G:N2	34:BA:1479:C:C2	2.57	0.72
35:BB:2:C:N3	35:BB:71:G:N1	2.37	0.72
35:BC:19:G:C4	35:BC:57:G:N2	2.57	0.72
37:BE:114:ARG:HD2	37:BE:141:GLU:CD	2.13	0.72
37:BE:187:LEU:HD22	37:BE:188:ALA:N	2.04	0.72
39:BG:121:VAL:O	39:BG:134:ASP:HA	1.89	0.72
39:BG:127:THR:N	39:BG:147:ALA:O	2.23	0.72
41:BI:9:VAL:HG23	41:BI:87:ARG:HB2	1.72	0.72
42:BJ:76:ARG:NH1	42:BJ:89:MET:HE1	2.04	0.72
45:BM:8:LEU:HD23	45:BM:95:GLU:C	2.14	0.72
45:BM:49:VAL:O	45:BM:60:ARG:HD2	1.88	0.72
50:BR:29:VAL:HG11	50:BR:81:LEU:HD11	1.71	0.72
53:BU:29:PHE:CZ	53:BU:39:VAL:HG11	2.23	0.72
53:BU:47:THR:H	53:BU:49:LYS:HZ3	1.36	0.72
54:BV:30:LEU:CD2	54:BV:31:ILE:H	2.01	0.72
2:AA:25:U:C2'	2:AA:26:G:C8	2.69	0.72
2:AA:88:G:N3	2:AA:88:G:H2'	2.03	0.72
2:AA:388:G:C2'	2:AA:390:A:H62	2.02	0.72
2:AA:464:U:N3	2:AA:465:G:N7	2.37	0.72
2:AA:464:U:H1'	2:AA:788:A:N1	2.05	0.72
2:AA:913:U:O2'	2:AA:914:C:C5	2.36	0.72
2:AA:1084:A:C4'	9:AI:38:ALA:H	2.03	0.72
2:AA:1189:A:H2'	2:AA:1190:G:H5'	1.71	0.72
2:AA:1367:A:O2'	31:A7:25:LYS:HD3	1.89	0.72
2:AA:1668:A:O2'	2:AA:1669:A:H3'	1.90	0.72
2:AA:1777:U:H2'	2:AA:1778:U:C6	2.20	0.72
2:AA:1816:G:N7	4:AD:63:ILE:HG13	2.04	0.72
2:AA:1941:C:H41	2:AA:1965:C:H1'	1.53	0.72
2:AA:2273:A:H8	2:AA:2274:A:O4'	1.73	0.72
2:AA:2653:U:H3'	2:AA:2654:A:C8	2.24	0.72
2:AA:2787:C:H2'	2:AA:2788:C:C6	2.24	0.72
2:AA:2877:G:H3'	2:AA:2878:U:C5	2.25	0.72
3:AC:75:LEU:HD22	3:AC:110:PHE:CE2	2.25	0.72
3:AC:133:PRO:HG2	3:AC:134:ARG:H	1.52	0.72
5:AE:256:THR:CA	5:AE:259:HIS:HE1	2.03	0.72
8:AH:18:VAL:CG1	8:AH:42:ILE:HD12	2.19	0.72
11:AL:79:LEU:CD2	11:AL:137:ILE:HD13	2.19	0.72
18:AS:55:ALA:HA	18:AS:107:LEU:CD1	2.15	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:52:VAL:CG2	19:AT:66:VAL:HG22	2.20	0.72
20:AU:46:ASP:HA	20:AU:102:ASP:OD1	1.90	0.72
20:AU:71:VAL:CG1	20:AU:72:ILE:N	2.52	0.72
21:AV:64:ALA:HB3	21:AV:85:MET:HA	1.72	0.72
21:AV:151:ASP:O	21:AV:153:LYS:HD2	1.89	0.72
24:A0:31:HIS:CD2	24:A0:34:ILE:HD11	2.22	0.72
27:A3:44:LYS:HB3	27:A3:45:PHE:CD1	2.24	0.72
27:A3:46:LYS:NZ	27:A3:81:ILE:HD11	2.05	0.72
28:A4:48:ARG:N	28:A4:52:THR:OG1	2.23	0.72
32:A8:60:LEU:HD21	32:A8:64:ARG:HB2	1.70	0.72
34:BA:51:A:C2	34:BA:353:A:C6	2.77	0.72
34:BA:195:A:C4'	55:BW:68:LYS:NZ	2.53	0.72
34:BA:448:A:H62	34:BA:486:U:H3	1.38	0.72
34:BA:584:G:OP1	52:BT:87:LYS:HD3	1.88	0.72
34:BA:862:C:C4	34:BA:863:U:C5	2.78	0.72
34:BA:962:C:H2'	34:BA:963:G:O4'	1.90	0.72
34:BA:1163:C:C2'	34:BA:1164:G:H5'	2.18	0.72
34:BA:1371:G:OP1	44:BL:68:GLY:HA3	1.90	0.72
37:BE:16:HIS:HA	37:BE:204:ASN:HB3	1.72	0.72
37:BE:69:LEU:HD13	37:BE:69:LEU:C	2.15	0.72
39:BG:46:LYS:O	39:BG:47:ARG:C	2.32	0.72
39:BG:61:LYS:HA	39:BG:203:VAL:HG22	1.72	0.72
43:BK:103:VAL:HB	43:BK:108:GLY:C	2.14	0.72
45:BM:47:PHE:CZ	45:BM:65:LEU:HB2	2.24	0.72
46:BN:46:GLY:H	46:BN:55:LYS:HD3	1.54	0.72
50:BR:62:GLN:CD	50:BR:65:ARG:NH2	2.47	0.72
52:BT:27:PHE:O	52:BT:36:ILE:HD13	1.88	0.72
1:AB:13:A:H2	1:AB:69:G:H21	1.32	0.72
1:AB:15:A:H5'	1:AB:16:G:N7	2.03	0.72
2:AA:269:U:H3	2:AA:270:A:N6	1.86	0.72
2:AA:465:G:C6	2:AA:466:A:C6	2.78	0.72
2:AA:489:G:H21	2:AA:491:G:H1'	1.54	0.72
2:AA:530:G:O2'	2:AA:531:C:C4'	2.37	0.72
2:AA:749:C:O2'	2:AA:1617:C:H2'	1.89	0.72
2:AA:932:G:H5'	23:AX:24:LYS:HZ1	1.55	0.72
2:AA:975:G:C8	2:AA:990:A:C6	2.77	0.72
2:AA:1023:U:P	2:AA:1025:G:N1	2.63	0.72
2:AA:142(A):A:C5	2:AA:1143:A:N7	2.57	0.72
2:AA:1527:G:H1'	2:AA:1545:A:H62	1.53	0.72
2:AA:1552:G:H5''	2:AA:1553:A:OP1	1.90	0.72
2:AA:1691:C:HO2'	2:AA:1692:U:H5'	1.53	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1778:U:C2	2:AA:1784:A:C2	2.78	0.72
2:AA:1993:U:H2'	2:AA:1994:C:C5'	2.20	0.72
2:AA:2000:G:H2'	2:AA:2001:A:C8	2.21	0.72
2:AA:2056:G:N2	2:AA:2057:A:O4'	2.22	0.72
2:AA:2423:U:C6	2:AA:2425:A:C6	2.77	0.72
2:AA:2482:G:N7	2:AA:2483:C:C5	2.58	0.72
2:AA:2581:G:H1	2:AA:2610:C:C2'	2.01	0.72
2:AA:2589:A:OP1	4:AD:230:ASN:ND2	2.22	0.72
2:AA:2776:A:H4'	2:AA:2778:A:OP1	1.89	0.72
4:AD:129:LEU:HD22	4:AD:133:ASN:CB	2.20	0.72
4:AD:131:LEU:HD11	4:AD:183:ILE:HG21	1.72	0.72
5:AE:39:GLN:HA	5:AE:174:LEU:HG	1.69	0.72
5:AE:77:PRO:HG2	5:AE:186:GLU:CB	2.19	0.72
6:AF:27:ARG:O	6:AF:31:ILE:HG13	1.88	0.72
6:AF:55:ARG:HA	6:AF:79:ARG:HH21	1.52	0.72
6:AF:153:VAL:CG1	6:AF:157:LEU:HD21	2.20	0.72
9:AI:9:ALA:O	9:AI:13:LEU:HG	1.89	0.72
10:AK:4:ILE:O	10:AK:4:ILE:HG22	1.89	0.72
13:AN:64:ARG:CG	13:AN:79:PHE:HD1	2.01	0.72
14:AO:92:ASP:CB	14:AO:118:LEU:CD2	2.64	0.72
15:AP:86:ARG:HH11	15:AP:120:HIS:HD2	1.37	0.72
19:AT:34:LYS:HE3	19:AT:52:VAL:C	2.14	0.72
20:AU:41:ARG:HB3	20:AU:111:ARG:CG	2.13	0.72
22:AW:62:GLU:N	22:AW:62:GLU:OE1	2.23	0.72
23:AX:27:GLY:O	23:AX:28:LEU:HD23	1.89	0.72
25:A1:49:ASP:HA	25:A1:52:ASN:HD22	1.53	0.72
26:A2:4:ILE:C	26:A2:39:PHE:CE2	2.66	0.72
28:A4:40:HIS:HB3	28:A4:41:PRO:HD3	1.72	0.72
34:BA:17:U:H2'	34:BA:18:C:H6	1.53	0.72
34:BA:153:C:H2'	34:BA:154:C:C6	2.24	0.72
34:BA:429:U:C2'	39:BG:22:LYS:NZ	2.51	0.72
34:BA:815:A:C4	34:BA:1529:G:C6	2.78	0.72
34:BA:857:C:H2'	34:BA:858:G:H8	1.54	0.72
34:BA:994:A:H61	34:BA:1046:A:H2	1.38	0.72
34:BA:1201:A:O2'	34:BA:1202:G:OP2	2.08	0.72
34:BA:1237:C:C1'	34:BA:1334:G:H21	2.03	0.72
34:BA:1534:A:N3	34:BA:1534:A:C3'	2.43	0.72
35:BB:15:G:H22	35:BB:48:C:N4	1.88	0.72
35:BB:28:C:O2	35:BB:29:A:H8	1.71	0.72
35:BB:53:G:C2'	35:BB:54:U:C5'	2.54	0.72
35:BC:74:C:H2'	35:BC:75:C:C5'	2.18	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:11:ARG:CG	38:BF:15:THR:O	2.34	0.72
40:BH:107:ARG:HG2	40:BH:111:GLU:CG	2.20	0.72
43:BK:109:ILE:O	43:BK:109:ILE:HG13	1.89	0.72
46:BN:91:ARG:O	46:BN:95:ILE:HG13	1.89	0.72
55:BW:53:LEU:O	55:BW:56:MET:N	2.23	0.72
1:AB:35:U:C5	1:AB:36:C:C5	2.78	0.72
1:AB:102:G:N2	1:AB:103:U:H3	1.87	0.72
2:AA:271:G:C2	2:AA:404:C:N4	2.57	0.72
2:AA:359:A:H2	2:AA:361:G:N2	1.88	0.72
2:AA:650:C:O2'	2:AA:651:G:H5'	1.89	0.72
2:AA:930:U:OP1	23:AX:37:LEU:HD21	1.89	0.72
2:AA:941:A:C2	2:AA:942:G:C4	2.77	0.72
2:AA:1084:A:H5''	9:AI:37:VAL:N	2.03	0.72
2:AA:1193:G:O2'	2:AA:1194:A:H5'	1.90	0.72
2:AA:1362:C:O2	2:AA:1369:G:N1	2.20	0.72
2:AA:1636:C:O2'	2:AA:1761:C:H1'	1.90	0.72
2:AA:1689:A:H2'	2:AA:1690:A:C8	2.15	0.72
2:AA:1799:G:C2	4:AD:153:LEU:HD21	2.25	0.72
2:AA:2231:C:H2'	2:AA:2232:U:C5	2.22	0.72
2:AA:2486:G:C2	2:AA:2487:G:C8	2.78	0.72
2:AA:2488:A:C6	2:AA:2489:G:C5	2.78	0.72
2:AA:2491:U:C5'	2:AA:2570:G:H5'	2.20	0.72
2:AA:2616:C:C2'	2:AA:2617:C:H6	1.85	0.72
2:AA:2687:U:H2'	2:AA:2687:U:O2	1.87	0.72
2:AA:2799:A:H5''	2:AA:2801:A:OP2	1.89	0.72
2:AA:2839:G:O2'	24:A0:92:GLY:HA3	1.90	0.72
3:AC:181:PRO:CD	3:AC:184:LYS:HD2	2.15	0.72
7:AG:45:THR:HA	7:AG:83:PHE:CZ	2.24	0.72
11:AL:109:ALA:HB2	11:AL:128:ILE:HD11	1.72	0.72
13:AN:21:VAL:CG1	13:AN:22:ILE:N	2.53	0.72
13:AN:37:ASP:HB2	13:AN:62:VAL:HG21	1.71	0.72
14:AO:53:ARG:H	14:AO:53:ARG:CD	1.84	0.72
14:AO:82:ALA:O	14:AO:83:GLU:C	2.29	0.72
15:AP:25:GLY:O	15:AP:27:GLY:N	2.21	0.72
15:AP:56:ILE:O	15:AP:112:ALA:CB	2.38	0.72
15:AP:65:ARG:NH2	15:AP:85:ILE:C	2.48	0.72
16:AQ:103:ASP:OD2	16:AQ:103:ASP:C	2.32	0.72
18:AS:24:ILE:HD13	18:AS:36:LEU:HD11	1.71	0.72
20:AU:14:ALA:HB1	20:AU:15:PRO:CD	2.18	0.72
20:AU:14:ALA:HB3	20:AU:18:GLU:OE1	1.89	0.72
20:AU:18:GLU:O	20:AU:21:LYS:N	2.23	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:142:ASN:N	21:AV:171:VAL:HG11	2.05	0.72
24:A0:52:ILE:O	24:A0:55:ALA:HB3	1.90	0.72
25:A1:7:GLY:O	25:A1:8:ILE:C	2.32	0.72
25:A1:28:ARG:HA	25:A1:31:GLN:HB2	1.71	0.72
26:A2:21:ARG:HB2	26:A2:95:ILE:CD1	2.18	0.72
31:A7:30:ILE:HD13	31:A7:33:ARG:CD	2.20	0.72
32:A8:9:MET:O	32:A8:14:ILE:HB	1.89	0.72
34:BA:36:C:H2'	34:BA:37:U:H6	1.54	0.72
34:BA:76:C:N3	34:BA:93:G:N2	2.32	0.72
34:BA:254:G:H2'	34:BA:255:G:H8	1.54	0.72
34:BA:265:G:O2'	34:BA:266:G:H5'	1.88	0.72
34:BA:309:G:O2'	34:BA:310:G:H5'	1.90	0.72
34:BA:409:G:N2	34:BA:433:C:N3	2.30	0.72
34:BA:741:G:H2'	34:BA:742:G:C8	2.17	0.72
34:BA:1316:G:OP2	34:BA:1316:G:C8	2.42	0.72
34:BA:1319:A:H4'	54:BV:70:LYS:HZ3	1.52	0.72
35:BB:9:A:C2	35:BB:45:G:N7	2.57	0.72
35:BB:26:G:H2'	35:BB:26:G:N3	2.05	0.72
39:BG:25:ARG:CZ	39:BG:30:LYS:HD3	2.19	0.72
42:BJ:80:VAL:HG21	42:BJ:85:TYR:HB2	1.71	0.72
43:BK:22:GLU:HA	43:BK:63:LEU:CD1	2.19	0.72
43:BK:114:THR:C	43:BK:116:LYS:H	1.97	0.72
54:BV:43:GLU:H	54:BV:43:GLU:CD	1.96	0.72
1:AB:20:C:H2'	1:AB:21:G:H5'	1.72	0.72
2:AA:126:A:H4'	31:A7:19:ARG:HE	1.54	0.72
2:AA:412:A:O2'	2:AA:413:C:H5'	1.90	0.72
2:AA:500:G:H2'	2:AA:501:A:H5''	1.70	0.72
2:AA:528:A:C8	2:AA:528:A:C3'	2.71	0.72
2:AA:537:C:H2'	2:AA:539:G:H8	1.53	0.72
2:AA:611:C:O2'	2:AA:616:A:H2	1.73	0.72
2:AA:702:G:C6	2:AA:731:C:N4	2.58	0.72
2:AA:853:G:H2'	2:AA:854:G:C8	2.21	0.72
2:AA:923:C:O4'	27:A3:26:PHE:CD2	2.43	0.72
2:AA:997:G:C4'	25:A1:92:ARG:HH11	2.01	0.72
2:AA:1127:A:H2'	2:AA:1128:A:H8	1.54	0.72
2:AA:1327:C:H3'	2:AA:1328:G:C8	2.25	0.72
2:AA:1391:U:C4	2:AA:1394:U:H5	2.07	0.72
2:AA:1681:G:C5	2:AA:1762:A:N7	2.58	0.72
2:AA:2016:U:H5''	2:AA:2058:A:OP1	1.90	0.72
2:AA:2320:A:O5'	2:AA:2320:A:H8	1.72	0.72
2:AA:2320:A:N3	2:AA:2333:A:C5	2.56	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2332:U:H4'	2:AA:2336:A:H61	1.54	0.72
2:AA:2626:C:O2'	2:AA:2627:G:H5'	1.89	0.72
2:AA:2633:G:H5'	2:AA:2811:G:O3'	1.90	0.72
2:AA:2785:C:O2	5:AE:100:TRP:CD1	2.43	0.72
2:AA:2808:U:OP1	2:AA:2809:A:OP2	2.08	0.72
2:AA:2835:A:N6	2:AA:2879:C:OP2	2.23	0.72
3:AC:70:LYS:CB	3:AC:157:LYS:HZ3	2.03	0.72
4:AD:80:ILE:O	4:AD:80:ILE:HD12	1.89	0.72
4:AD:104:ILE:HD13	4:AD:106:PRO:HG2	1.72	0.72
5:AE:48:MET:O	5:AE:49:THR:HG22	1.89	0.72
5:AE:216:ARG:NH2	5:AE:255:GLN:CA	2.53	0.72
6:AF:167:ASP:HB3	6:AF:232:LEU:H	1.53	0.72
8:AH:11:PRO:O	8:AH:14:VAL:CG2	2.38	0.72
10:AK:114:LYS:HZ2	10:AK:133:LEU:HD23	1.55	0.72
11:AL:22:PRO:HG2	11:AL:23:PRO:CD	2.19	0.72
14:AO:81:VAL:O	14:AO:81:VAL:HG12	1.88	0.72
19:AT:23:LYS:H	19:AT:68:LEU:HG	1.53	0.72
21:AV:172:LEU:CG	21:AV:173:PRO:HD2	2.16	0.72
26:A2:65:ARG:NH1	26:A2:94:LYS:NZ	2.37	0.72
28:A4:5:LEU:HA	28:A4:56:VAL:HA	1.72	0.72
30:A6:12:MET:HB2	30:A6:27:ASN:HD22	1.53	0.72
34:BA:169:C:H2'	34:BA:170:U:H6	1.55	0.72
34:BA:281:G:O2'	34:BA:282:A:H8	1.73	0.72
34:BA:568:G:C2	34:BA:569:C:C4	2.78	0.72
34:BA:598:U:O4'	43:BK:94:TYR:HD2	1.71	0.72
34:BA:1015:A:H1'	34:BA:1218:C:O2'	1.90	0.72
37:BE:39:ILE:HG22	37:BE:41:ILE:CD1	2.20	0.72
37:BE:107:THR:HA	37:BE:110:GLN:OE1	1.90	0.72
37:BE:135:GLN:HB3	37:BE:139:LYS:HE3	1.71	0.72
37:BE:222:ILE:HG13	37:BE:226:ARG:HE	1.53	0.72
42:BJ:54:THR:O	42:BJ:56:GLN:N	2.22	0.72
42:BJ:111:ARG:NH2	42:BJ:122:HIS:HB3	2.04	0.72
47:BO:41:ARG:NH2	47:BO:57:LYS:NZ	2.37	0.72
47:BO:53:ARG:HH22	47:BO:92:ASP:HB3	1.54	0.72
50:BR:36:ILE:HG22	50:BR:37:ASN:H	1.54	0.72
51:BS:58:TYR:O	51:BS:59:TRP:C	2.32	0.72
52:BT:9:VAL:HG11	52:BT:84:LEU:HD12	1.72	0.72
55:BW:91:LEU:C	55:BW:93:GLU:H	1.98	0.72
1:AB:53:A:C6	1:AB:54:G:C8	2.77	0.72
2:AA:286:C:H2'	2:AA:287:C:O5'	1.89	0.72
2:AA:559:G:C2'	2:AA:560:C:C6	2.65	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:737:C:N3	2:AA:759:G:N2	2.37	0.72
2:AA:784:A:N6	2:AA:792:G:N3	2.38	0.72
2:AA:949:C:H2'	2:AA:950:G:C8	2.24	0.72
2:AA:980:A:H2	2:AA:2038:G:O4'	1.71	0.72
2:AA:1084:A:C4	9:AI:25:LEU:HB3	2.25	0.72
2:AA:1299:G:H21	2:AA:1641:A:H62	1.36	0.72
2:AA:1348:G:C2	2:AA:1599:C:N3	2.58	0.72
2:AA:1534:G:O2'	2:AA:1536:A:H4'	1.90	0.72
2:AA:1716:U:O5'	2:AA:1716:U:C6	2.43	0.72
2:AA:2018:G:O2'	2:AA:2019:A:H5'	1.89	0.72
2:AA:2323:G:H2'	2:AA:2324:C:H6	1.52	0.72
2:AA:2384:G:H3'	2:AA:2386:C:P	2.29	0.72
2:AA:2450:A:H2'	2:AA:2451:A:H5'	1.71	0.72
2:AA:2653:U:N3	2:AA:2654:A:N6	2.38	0.72
3:AC:86:ALA:HB2	3:AC:149:ILE:CD1	2.19	0.72
4:AD:103:ILE:HG13	4:AD:104:ILE:HG13	1.71	0.72
6:AF:212:VAL:O	6:AF:212:VAL:HG12	1.90	0.72
7:AG:87:ALA:C	7:AG:89:PRO:HD2	2.15	0.72
7:AG:146:LYS:HG3	16:AQ:15:GLU:CG	2.18	0.72
8:AH:86:LEU:HD23	8:AH:148:ARG:HE	1.55	0.72
8:AH:151:ARG:HB2	8:AH:161:ILE:HD13	1.72	0.72
9:AI:62:VAL:HG22	9:AI:101:VAL:HG22	1.72	0.72
10:AK:68:LEU:HD22	10:AK:108:LEU:HD11	1.72	0.72
12:AM:39:VAL:HG11	12:AM:108:PRO:CD	2.18	0.72
13:AN:101:PRO:HD3	17:AR:26:GLY:HA2	1.71	0.72
14:AO:113:GLN:HE21	14:AO:115:ARG:HH12	1.37	0.72
16:AQ:27:LEU:O	16:AQ:28:LYS:C	2.31	0.72
17:AR:14:GLU:HG3	17:AR:15:PRO:HD2	1.72	0.72
21:AV:1:MET:C	21:AV:54:ILE:HG13	2.14	0.72
22:AW:12:THR:HB	22:AW:13:PRO:HD2	1.72	0.72
25:A1:111:ASP:O	25:A1:114:ARG:HG3	1.90	0.72
34:BA:174:C:N4	34:BA:175:C:H41	1.88	0.72
34:BA:306:G:C4	34:BA:307:C:C5	2.77	0.72
34:BA:459:G:H21	34:BA:463:A:H62	1.38	0.72
34:BA:704:A:H2'	34:BA:705:U:C6	2.25	0.72
34:BA:978:A:N6	34:BA:1361:G:N2	2.38	0.72
34:BA:1196:U:H5'	34:BA:1197:G:O5'	1.89	0.72
34:BA:1346:A:O2'	34:BA:1347:G:OP2	2.07	0.72
34:BA:1539:C:N4	36:B1:50:G:N1	2.29	0.72
35:BB:51:G:C4	35:BB:52:U:C5	2.77	0.72
36:B1:34:U:H2'	36:B1:35:C:H6	1.55	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:86:ALA:O	40:BH:125:SER:HB3	1.90	0.72
41:BI:11:ASN:OD1	41:BI:14:LEU:N	2.23	0.72
42:BJ:76:ARG:HD2	42:BJ:89:MET:HE1	1.71	0.72
48:BP:16:ASP:HA	48:BP:19:LEU:HG	1.70	0.72
48:BP:48:LEU:HD21	48:BP:53:VAL:N	2.05	0.72
54:BV:36:ARG:HA	54:BV:71:LEU:HD12	1.70	0.72
1:AB:75:G:N3	21:AV:22:VAL:HG21	2.04	0.71
2:AA:270(Q):C:C2	2:AA:270(R):G:C8	2.78	0.71
2:AA:358:U:H3'	2:AA:359:A:C5'	2.18	0.71
2:AA:427:U:O5'	2:AA:427:U:H6	1.73	0.71
2:AA:695:G:H1	2:AA:767:U:H3	1.37	0.71
2:AA:743:G:O2'	2:AA:744:G:H5'	1.89	0.71
2:AA:972:G:H8	2:AA:974:G:OP1	1.69	0.71
2:AA:974:G:H3'	26:A2:82:ARG:CZ	2.19	0.71
2:AA:978:G:H1	2:AA:985:C:H42	0.75	0.71
2:AA:1083:U:OP2	2:AA:1083:U:H6	1.73	0.71
2:AA:1084:A:H5'	9:AI:35:ALA:O	1.90	0.71
2:AA:1324:G:C1'	2:AA:1616:A:N6	2.53	0.71
2:AA:1416:G:N2	2:AA:1582:C:H42	1.87	0.71
2:AA:1428:C:N4	2:AA:1569:A:H5''	2.05	0.71
2:AA:1451:C:H3'	2:AA:1453:A:C5'	2.20	0.71
2:AA:1463:C:O2'	2:AA:1464:C:O5'	2.08	0.71
2:AA:1530:G:P	2:AA:1539:G:N1	2.63	0.71
2:AA:1557:C:H5''	2:AA:1558:A:OP2	1.89	0.71
2:AA:1805:U:H2'	2:AA:1806:C:H6	1.55	0.71
2:AA:1917:U:H6	2:AA:1918:A:C8	2.08	0.71
2:AA:2081:C:H5''	28:A4:35:VAL:HG21	1.72	0.71
2:AA:2115:G:HO2'	3:AC:126:LYS:HD2	1.55	0.71
2:AA:2284:C:P	30:A6:9:ILE:CG1	2.77	0.71
2:AA:2367:G:O2'	2:AA:2368:C:H5'	1.89	0.71
2:AA:2425:A:H1'	2:AA:2427:C:C2	2.25	0.71
2:AA:2507:C:C4	2:AA:2582:G:N1	2.58	0.71
2:AA:2563:U:C5'	13:AN:27:GLY:HA2	2.18	0.71
2:AA:2573:C:H5''	2:AA:2574:G:C5'	2.20	0.71
2:AA:2581:G:N1	2:AA:2610:C:H2'	2.04	0.71
2:AA:2749:A:O4'	8:AH:62:ALA:HB2	1.89	0.71
2:AA:2820:A:H2'	2:AA:2821:A:OP1	1.90	0.71
4:AD:80:ILE:HB	4:AD:82:TYR:CD1	2.25	0.71
5:AE:247:ARG:HB2	5:AE:249:THR:OG1	1.90	0.71
5:AE:303:PRO:HB2	5:AE:307:LEU:CD1	2.20	0.71
8:AH:41:THR:O	8:AH:52:THR:HG23	1.90	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:51:VAL:CG2	8:AH:68:ARG:HG2	2.20	0.71
10:AK:124:LEU:HD21	10:AK:146:THR:CA	2.19	0.71
13:AN:7:ARG:HB3	13:AN:44:LYS:HE3	1.69	0.71
13:AN:122:ILE:HD12	13:AN:122:ILE:N	2.04	0.71
14:AO:76:LEU:HD11	14:AO:96:VAL:HG12	1.71	0.71
16:AQ:21:HIS:O	16:AQ:24:LEU:N	2.23	0.71
16:AQ:91:ARG:O	16:AQ:94:GLU:HG3	1.90	0.71
23:AX:55:ARG:HB3	23:AX:55:ARG:NH1	2.03	0.71
27:A3:8:GLY:O	27:A3:10:SER:OG	2.08	0.71
29:A5:44:HIS:HA	29:A5:52:TYR:CZ	2.25	0.71
32:A8:16:ILE:CA	32:A8:22:VAL:HG22	2.20	0.71
34:BA:202:U:O3'	34:BA:203:U:H6	1.71	0.71
34:BA:286:G:O2'	34:BA:287:U:H5'	1.90	0.71
34:BA:390:C:H2'	34:BA:391:G:H8	1.54	0.71
34:BA:539:A:OP1	47:BO:114:LYS:HE2	1.89	0.71
34:BA:568:G:N1	34:BA:569:C:N4	2.38	0.71
34:BA:1400:C:H1'	35:BC:34:G:N2	2.03	0.71
35:BB:26:G:C2	35:BB:27:C:C1'	2.73	0.71
37:BE:170:GLU:O	37:BE:171:ALA:C	2.33	0.71
39:BG:120:LEU:HD23	39:BG:121:VAL:N	2.05	0.71
39:BG:154:ASN:HA	39:BG:159:ARG:NH2	2.05	0.71
47:BO:83:VAL:HG22	47:BO:84:LEU:H	1.54	0.71
48:BP:96:LEU:C	48:BP:110:ARG:HG2	2.15	0.71
1:AB:80:U:HO2'	2:AA:918:A:H8	1.37	0.71
2:AA:197:A:H5''	2:AA:2068:U:N3	2.04	0.71
2:AA:343:C:C2	2:AA:344:G:C2	2.75	0.71
2:AA:444:C:O3'	25:A1:2:PRO:HD2	1.90	0.71
2:AA:452:G:P	6:AF:52:ALA:CB	2.78	0.71
2:AA:494:G:H4'	18:AS:6:ILE:HG23	1.73	0.71
2:AA:529:A:O2'	2:AA:530:G:C8	2.43	0.71
2:AA:1034:G:O4'	33:A9:18:ARG:NH1	2.23	0.71
2:AA:1050:A:N6	2:AA:2751:G:N7	2.37	0.71
2:AA:1068:G:H4'	2:AA:1096:A:H1'	1.71	0.71
2:AA:1155:A:C2	2:AA:1157:G:H1'	2.25	0.71
2:AA:1489:U:O2	2:AA:1500:G:O6	2.06	0.71
2:AA:1667:G:O2'	2:AA:1991:U:O4	2.09	0.71
2:AA:2122:U:H2'	2:AA:2123:G:C5'	2.21	0.71
2:AA:2218:G:O3'	4:AD:184:LEU:CD1	2.38	0.71
2:AA:2507:C:C2	2:AA:2582:G:N2	2.57	0.71
2:AA:2555:U:O2'	2:AA:2556:C:H5'	1.89	0.71
2:AA:2633:G:OP1	2:AA:2811:G:O2'	2.09	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2747:G:O6	2:AA:2755:C:H5''	1.89	0.71
4:AD:79:THR:O	4:AD:91:ALA:HA	1.89	0.71
5:AE:63:GLU:O	5:AE:67:THR:HA	1.89	0.71
6:AF:61:PHE:CB	6:AF:65:ARG:NH1	2.50	0.71
6:AF:84:VAL:C	6:AF:86:GLY:H	1.97	0.71
6:AF:140:VAL:O	6:AF:237:GLU:HG3	1.90	0.71
6:AF:153:VAL:O	6:AF:154:VAL:C	2.33	0.71
8:AH:37:HIS:NE2	8:AH:64:HIS:CE1	2.58	0.71
8:AH:60:HIS:HA	8:AH:63:LEU:HB2	1.70	0.71
9:AI:26:GLU:CD	9:AJ:43:PRO:HG3	2.15	0.71
9:AJ:42:ALA:HB3	9:AJ:43:PRO:HD3	1.70	0.71
10:AK:6:LEU:N	10:AK:36:ALA:HB2	2.04	0.71
11:AL:76:SER:O	11:AL:79:LEU:HB3	1.89	0.71
13:AN:11:ALA:HA	13:AN:99:PHE:HB2	1.71	0.71
14:AO:52:LYS:HD3	14:AO:53:ARG:NH1	2.05	0.71
15:AP:84:ARG:HH22	15:AP:86:ARG:NH2	1.88	0.71
17:AR:13:ILE:HG13	17:AR:33:SER:CA	2.20	0.71
17:AR:45:GLU:O	17:AR:48:ASN:ND2	2.23	0.71
21:AV:3:LEU:HD13	21:AV:34:LEU:HD23	1.72	0.71
21:AV:92:VAL:HA	21:AV:124:ALA:HB1	1.71	0.71
21:AV:116:VAL:HG22	21:AV:116:VAL:O	1.91	0.71
21:AV:118:HIS:ND1	21:AV:167:THR:O	2.23	0.71
23:AX:26:LEU:CB	23:AX:28:LEU:HD11	2.20	0.71
24:A0:67:LEU:HB2	24:A0:76:VAL:HG21	1.71	0.71
25:A1:91:ASN:O	25:A1:95:LEU:HD11	1.89	0.71
31:A7:32:ALA:CA	31:A7:35:ARG:HG3	2.20	0.71
32:A8:26:LYS:HE3	32:A8:45:GLY:H	1.55	0.71
34:BA:258:G:H1	34:BA:268:C:H42	1.38	0.71
34:BA:515:G:O6	34:BA:533:A:N7	2.23	0.71
34:BA:545:C:H5''	39:BG:72:GLU:HG2	1.72	0.71
34:BA:551:U:C5'	47:BO:119:LYS:HE2	2.20	0.71
34:BA:866:C:H5	34:BA:867:G:C4	2.07	0.71
34:BA:928:G:N2	34:BA:1390:U:H1'	2.05	0.71
34:BA:939:G:H1	34:BA:1344:C:H42	0.75	0.71
34:BA:1047:G:O2'	34:BA:1048:G:H5'	1.89	0.71
34:BA:1178:G:H22	34:BA:1180:A:H3'	1.53	0.71
34:BA:1256:A:H5'	34:BA:1258:G:O4'	1.90	0.71
35:BB:8:U:C5	35:BB:13:C:N4	2.57	0.71
35:BC:14:A:H2'	35:BC:15:G:H8	1.55	0.71
38:BF:179:ARG:HG3	38:BF:179:ARG:HH11	1.55	0.71
44:BL:82:ALA:CB	44:BL:96:LEU:HD11	2.18	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:49:VAL:CG1	45:BM:50:ILE:N	2.53	0.71
48:BP:52:GLU:HA	48:BP:55:ARG:CD	2.20	0.71
52:BT:18:THR:HG22	52:BT:43:LEU:CD2	2.13	0.71
52:BT:74:LEU:CD1	52:BT:75:ARG:HB3	2.20	0.71
1:AB:15:A:H5'	1:AB:16:G:C8	2.25	0.71
2:AA:112:U:O4	2:AA:113:G:C2	2.43	0.71
2:AA:179:G:C3'	2:AA:180:G:H8	2.03	0.71
2:AA:491:G:H2'	2:AA:492:A:H8	1.53	0.71
2:AA:531:C:C4	25:A1:38:THR:HG22	2.24	0.71
2:AA:531:C:H41	25:A1:38:THR:HA	1.54	0.71
2:AA:617:G:H4'	6:AF:219:ASN:OD1	1.89	0.71
2:AA:821:A:N7	2:AA:946:G:C5	2.58	0.71
2:AA:860:U:O2	2:AA:2268:A:N3	2.22	0.71
2:AA:1044:G:C4'	2:AA:1047:G:H4'	2.20	0.71
2:AA:1169:G:H1	2:AA:1180:C:H42	0.78	0.71
2:AA:1470:G:N2	2:AA:1522:G:N1	2.38	0.71
2:AA:1513:C:H2'	2:AA:1514:U:C5	2.25	0.71
2:AA:1743:G:C4	2:AA:1746:G:C8	2.78	0.71
2:AA:1824:G:H2'	2:AA:1825:A:O4'	1.89	0.71
2:AA:2138:C:H2'	2:AA:2139:C:C6	2.22	0.71
2:AA:2866:U:O2'	2:AA:2867:G:O5'	2.08	0.71
3:AC:190:ARG:HH11	3:AC:190:ARG:CB	2.04	0.71
4:AD:85:ASN:HB2	4:AD:86:ARG:HH21	1.54	0.71
4:AD:89:ASN:HD21	4:AD:199:ARG:HE	1.34	0.71
5:AE:48:MET:HB3	5:AE:71:THR:CG2	2.13	0.71
5:AE:74:GLU:CA	5:AE:293:TYR:HE2	2.01	0.71
5:AE:258:TYR:N	5:AE:258:TYR:CD2	2.57	0.71
6:AF:86:GLY:O	6:AF:87:ARG:HD2	1.90	0.71
8:AH:151:ARG:N	8:AH:161:ILE:HD11	2.04	0.71
9:AI:4:ASP:O	9:AI:8:GLU:HG3	1.90	0.71
9:AJ:62:VAL:HG22	9:AJ:101:VAL:HG22	1.71	0.71
11:AL:10:LYS:O	11:AL:11:LEU:HD23	1.90	0.71
13:AN:112:MET:O	13:AN:113:LYS:C	2.33	0.71
15:AP:58:HIS:O	15:AP:61:LEU:HG	1.90	0.71
19:AT:32:ALA:HA	19:AT:36:GLU:CG	2.20	0.71
21:AV:67:LYS:HA	21:AV:67:LYS:HZ2	1.53	0.71
22:AW:45:ARG:CZ	22:AW:49:LEU:HG	2.20	0.71
34:BA:389:A:H2'	34:BA:390:C:H5'	1.72	0.71
34:BA:509:A:O2'	34:BA:510:A:O5'	2.08	0.71
34:BA:562:C:O2'	47:BO:15:ARG:CB	2.31	0.71
34:BA:740:U:OP2	50:BR:2:PRO:HG3	1.91	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1293:G:O2'	34:BA:1294:G:H5'	1.89	0.71
37:BE:12:GLU:C	37:BE:14:GLY:H	1.97	0.71
37:BE:18:GLY:HA3	37:BE:41:ILE:HG23	1.71	0.71
37:BE:22:LYS:O	37:BE:24:TRP:CD1	2.44	0.71
37:BE:58:ILE:HG22	37:BE:221:LEU:HD12	1.73	0.71
37:BE:102:LEU:HB2	37:BE:176:GLU:CB	2.20	0.71
37:BE:222:ILE:HG12	37:BE:223:ILE:N	2.05	0.71
38:BF:188:LEU:HD13	38:BF:189:ALA:N	2.04	0.71
39:BG:42:GLN:HG2	39:BG:43:HIS:NE2	2.05	0.71
40:BH:135:THR:O	40:BH:136:MET:C	2.33	0.71
41:BI:83:ASP:CG	41:BI:84:ASN:N	2.35	0.71
52:BT:9:VAL:O	52:BT:11:VAL:HG13	1.90	0.71
55:BW:54:LYS:O	55:BW:57:ARG:HB2	1.91	0.71
1:AB:47:C:O3'	16:AQ:107:ASN:ND2	2.23	0.71
1:AB:58:A:H62	1:AB:59:A:N6	1.88	0.71
1:AB:68:C:H2'	1:AB:69:G:C1'	2.20	0.71
1:AB:69:G:H2'	1:AB:69:G:N3	2.04	0.71
1:AB:81:G:O4'	2:AA:919:G:H5'	1.91	0.71
2:AA:388:G:OP2	28:A4:29:PRO:HB3	1.91	0.71
2:AA:475:U:C5	2:AA:509:C:C4	2.78	0.71
2:AA:479:A:N7	2:AA:481:G:C5	2.58	0.71
2:AA:492:A:O2'	2:AA:493:G:H5'	1.90	0.71
2:AA:514:A:O2'	25:A1:32:TYR:CE1	2.42	0.71
2:AA:571:A:C6	2:AA:575:A:N7	2.59	0.71
2:AA:657:U:H2'	2:AA:658:C:H6	1.56	0.71
2:AA:824:A:H2'	2:AA:825:C:C6	2.25	0.71
2:AA:866:A:H2'	2:AA:866:A:N3	2.05	0.71
2:AA:873:G:C4'	15:AP:32:LYS:HG2	2.19	0.71
2:AA:946:G:H1	2:AA:971:C:N4	1.88	0.71
2:AA:1083:U:C3'	9:AI:36:PRO:C	2.49	0.71
2:AA:1174:A:N6	2:AA:1177:A:C6	2.58	0.71
2:AA:1552:G:O2'	2:AA:1553:A:C5'	2.35	0.71
2:AA:1861:G:H4'	3:AC:205:LYS:NZ	2.04	0.71
2:AA:2074:U:O2'	2:AA:2598:A:O4'	2.08	0.71
2:AA:2102:U:H2'	2:AA:2103:C:C6	2.25	0.71
2:AA:2197:U:H5	2:AA:2224:G:C4	2.07	0.71
2:AA:2348:U:C3'	32:A8:42:ARG:NH2	2.53	0.71
2:AA:2493:U:H2'	2:AA:2494:G:O5'	1.90	0.71
2:AA:2528:U:C2	2:AA:2536:G:N2	2.58	0.71
2:AA:2556:C:O2'	2:AA:2557:G:H5'	1.90	0.71
2:AA:2582:G:H5'	2:AA:2582:G:C8	2.24	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2611:U:H5'	2:AA:2611:U:H6	1.55	0.71
2:AA:2710:C:HO2'	2:AA:2711:A:H5'	1.54	0.71
3:AC:104:LEU:HA	3:AC:130:ILE:HG12	1.72	0.71
3:AC:190:ARG:NH1	3:AC:190:ARG:CB	2.52	0.71
4:AD:109:LEU:HD11	4:AD:126:GLY:HA3	1.72	0.71
4:AD:135:PRO:HG2	4:AD:138:THR:CG2	2.18	0.71
4:AD:143:ILE:H	4:AD:143:ILE:CD1	1.88	0.71
6:AF:46:TYR:O	6:AF:92:PRO:O	2.09	0.71
6:AF:115:LEU:HG	6:AF:246:ARG:HH22	1.51	0.71
8:AH:26:LYS:HZ2	8:AH:33:THR:HG22	1.56	0.71
8:AH:101:LYS:HB3	8:AH:114:ILE:O	1.90	0.71
9:AI:26:GLU:OE2	9:AJ:43:PRO:HG3	1.88	0.71
10:AK:6:LEU:HD13	10:AK:14:LYS:HZ3	1.54	0.71
11:AL:116:LEU:CD2	11:AL:127:ILE:HD13	2.20	0.71
14:AO:59:GLU:OE1	14:AO:60:GLU:N	2.23	0.71
19:AT:45:TYR:O	19:AT:47:VAL:HG22	1.90	0.71
21:AV:63:PRO:O	21:AV:85:MET:HG2	1.91	0.71
21:AV:71:MET:HA	21:AV:78:PRO:HB3	0.87	0.71
24:A0:61:HIS:O	24:A0:64:ARG:HG2	1.91	0.71
24:A0:67:LEU:HD21	24:A0:71:GLN:HA	1.70	0.71
29:A5:11:THR:HG21	29:A5:19:ARG:HH22	1.54	0.71
34:BA:38:G:C2	34:BA:397:A:C2	2.78	0.71
34:BA:242:C:N3	34:BA:285:G:C2	2.59	0.71
34:BA:511:C:C6	34:BA:512:U:C5	2.78	0.71
34:BA:808:C:H2'	34:BA:809:G:C8	2.24	0.71
34:BA:817:C:H4'	34:BA:818:G:OP1	1.88	0.71
34:BA:859:A:C8	34:BA:860:A:C8	2.78	0.71
34:BA:958:A:H2'	34:BA:959:A:C8	2.24	0.71
34:BA:1236:A:H4'	34:BA:1304:G:C4'	2.12	0.71
34:BA:1376:U:H3	34:BA:1377:A:N6	1.89	0.71
35:BB:1:G:C4	35:BB:73:A:C2	2.78	0.71
37:BE:27:LYS:HB3	37:BE:194:PRO:CG	2.21	0.71
37:BE:77:ALA:HB1	37:BE:80:ILE:HB	1.72	0.71
39:BG:29:PRO:C	39:BG:30:LYS:HG3	2.15	0.71
39:BG:39:PRO:HG2	39:BG:44:GLY:HA2	1.72	0.71
39:BG:83:SER:N	39:BG:89:THR:HG23	2.05	0.71
41:BI:42:GLU:C	41:BI:44:GLY:H	1.97	0.71
43:BK:45:ILE:HD11	43:BK:48:TYR:N	2.05	0.71
43:BK:112:LEU:HD21	43:BK:131:GLY:HA3	1.72	0.71
44:BL:3:GLN:HE21	44:BL:3:GLN:N	1.88	0.71
44:BL:66:ARG:C	44:BL:73:GLN:HE21	1.98	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:38:ILE:HG13	45:BM:38:ILE:O	1.90	0.71
48:BP:81:LEU:HD23	48:BP:89:GLY:HA2	1.71	0.71
50:BR:41:GLU:HA	50:BR:41:GLU:OE2	1.89	0.71
52:BT:3:LYS:HD3	52:BT:61:GLU:O	1.90	0.71
52:BT:59:ILE:HG13	52:BT:60:ILE:H	1.53	0.71
54:BV:5:LEU:HD12	54:BV:9:VAL:CG2	2.19	0.71
2:AA:49:A:C6	2:AA:177:G:N1	2.57	0.71
2:AA:108:U:O2'	2:AA:109:G:O5'	2.08	0.71
2:AA:270(S):G:C2'	2:AA:270(T):G:H8	2.02	0.71
2:AA:343:C:N3	2:AA:344:G:C6	2.56	0.71
2:AA:764:A:C5	2:AA:781:A:N1	2.58	0.71
2:AA:771:G:H2'	2:AA:772:C:H6	1.55	0.71
2:AA:799:G:OP1	2:AA:800:A:H5''	1.91	0.71
2:AA:963:U:H1'	2:AA:2250:G:N2	2.04	0.71
2:AA:1044:G:C2'	2:AA:1111:A:C2	2.69	0.71
2:AA:1265:A:H8	2:AA:1267:U:H3	1.38	0.71
2:AA:1358:G:N1	2:AA:1371:G:H2'	2.05	0.71
2:AA:1491:G:H3'	2:AA:1491:G:P	2.30	0.71
2:AA:1853:A:N1	2:AA:2087:G:H1'	2.04	0.71
2:AA:1883:G:C2	2:AA:1884:A:C2	2.79	0.71
2:AA:1941:C:C5	2:AA:1965:C:C2	2.79	0.71
2:AA:1992:G:N2	2:AA:1995:U:H5	1.84	0.71
2:AA:2009:G:H5''	18:AS:40:ASN:ND2	2.06	0.71
2:AA:2218:G:C5'	4:AD:147:PRO:HG3	2.20	0.71
2:AA:2252:G:H8	2:AA:2252:G:O5'	1.71	0.71
2:AA:2406:U:H3	14:AO:55:GLN:CB	2.03	0.71
2:AA:2580:U:C6	2:AA:2581:G:H8	2.09	0.71
2:AA:2667:C:O2	8:AH:108:TYR:CB	2.36	0.71
2:AA:2779:U:C4'	2:AA:2781:A:N7	2.52	0.71
3:AC:77:ILE:HD12	3:AC:138:PRO:HG2	1.72	0.71
5:AE:240:PRO:CG	5:AE:243:PRO:HG3	2.21	0.71
6:AF:38:ALA:CB	6:AF:221:GLU:HG2	2.20	0.71
8:AH:32:LEU:HB3	8:AH:78:VAL:HG22	1.72	0.71
8:AH:37:HIS:HD2	8:AH:63:LEU:HD21	1.54	0.71
9:AJ:73:VAL:HG11	9:AJ:123:ALA:HB2	1.72	0.71
10:AK:5:PHE:CD2	10:AK:17:GLU:O	2.43	0.71
13:AN:21:VAL:HG13	13:AN:39:VAL:CG1	2.19	0.71
20:AU:76:ASP:O	20:AU:78:THR:N	2.23	0.71
20:AU:81:LYS:HB3	20:AU:81:LYS:NZ	2.06	0.71
21:AV:18:MET:HG3	21:AV:35:ASP:HB2	1.71	0.71
21:AV:62:PHE:CZ	21:AV:87:THR:HB	2.25	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:43:PRO:HB2	22:AW:46:ILE:HG12	1.73	0.71
28:A4:48:ARG:HB2	28:A4:71:SER:HB3	1.71	0.71
32:A8:38:GLY:O	32:A8:41:ILE:HG12	1.91	0.71
34:BA:185:A:N3	55:BW:81:LYS:NZ	2.38	0.71
34:BA:216:G:H2'	34:BA:217:C:C6	2.26	0.71
34:BA:219:C:C5	34:BA:220:G:C8	2.78	0.71
34:BA:290:C:C2'	34:BA:291:C:H5'	2.19	0.71
34:BA:460:A:N7	34:BA:462:G:C6	2.58	0.71
34:BA:1007:C:N3	34:BA:1022:G:C2	2.58	0.71
34:BA:1132:C:H2'	34:BA:1133:G:H8	1.55	0.71
34:BA:1180:A:C2'	34:BA:1181:G:H5'	2.20	0.71
36:B1:14:U:C5'	36:B1:38:C:H42	2.04	0.71
38:BF:12:LEU:HD13	38:BF:18:TRP:H	1.54	0.71
38:BF:150:LYS:HZ1	38:BF:152:ILE:HD11	1.55	0.71
39:BG:170:VAL:HG12	39:BG:171:GLY:N	2.05	0.71
40:BH:102:ALA:CB	40:BH:120:THR:HG22	2.20	0.71
41:BI:4:TYR:HA	41:BI:93:SER:OG	1.89	0.71
43:BK:25:ASP:HB3	43:BK:58:TYR:CD2	2.25	0.71
43:BK:36:LEU:CA	43:BK:39:LEU:HB2	2.18	0.71
44:BL:97:LYS:HZ2	44:BL:102:LEU:HD11	1.55	0.71
48:BP:63:THR:HG23	48:BP:64:TRP:N	2.03	0.71
1:AB:118:G:O2'	1:AB:119:A:H5'	1.91	0.71
2:AA:137(A):G:O6	2:AA:139:G:C2	2.43	0.71
2:AA:295:G:N1	2:AA:344:G:N1	2.35	0.71
2:AA:295:G:O5'	2:AA:296:C:OP2	2.08	0.71
2:AA:463:G:C2	2:AA:467:G:C5	2.79	0.71
2:AA:465:G:H21	2:AA:683:C:C2'	2.04	0.71
2:AA:585:G:C4	2:AA:1251:C:N4	2.58	0.71
2:AA:640:C:H6	2:AA:640:C:H3'	1.56	0.71
2:AA:674:G:C5'	6:AF:69:HIS:HA	2.21	0.71
2:AA:777:A:N1	2:AA:787:U:O4	2.23	0.71
2:AA:932:G:H5'	23:AX:24:LYS:NZ	2.05	0.71
2:AA:996:A:C6	2:AA:1160:G:C6	2.79	0.71
2:AA:1058:G:C3'	9:AI:2:THR:HA	2.20	0.71
2:AA:1470:G:N1	2:AA:1520:U:N3	2.39	0.71
2:AA:1472:A:N9	2:AA:1473:G:N7	2.38	0.71
2:AA:1519:G:H2'	2:AA:1520:U:C1'	2.20	0.71
2:AA:1565:C:HO2'	2:AA:1566:A:H8	1.38	0.71
2:AA:2247:A:O2'	2:AA:2248:C:H5'	1.91	0.71
2:AA:2441:C:O2'	2:AA:2442:C:C5'	2.39	0.71
2:AA:2680:C:H3'	5:AE:206:LYS:NZ	2.05	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2687:U:C2	2:AA:2688:U:C6	2.78	0.71
4:AD:210:LYS:HA	4:AD:213:LYS:HE2	1.71	0.71
5:AE:46:ALA:HB3	5:AE:72:VAL:O	1.91	0.71
5:AE:85:ALA:CB	5:AE:87:GLU:CD	2.63	0.71
6:AF:35:VAL:C	6:AF:39:GLN:NE2	2.47	0.71
6:AF:154:VAL:O	6:AF:157:LEU:HB2	1.91	0.71
7:AG:82:GLU:HA	7:AG:85:GLN:CD	2.15	0.71
8:AH:63:LEU:O	8:AH:66:THR:HG22	1.91	0.71
13:AN:25:LEU:HD12	13:AN:38:VAL:C	2.16	0.71
13:AN:31:ARG:C	13:AN:32:TYR:CD1	2.68	0.71
15:AP:28:ILE:HG23	15:AP:62:GLU:CD	2.16	0.71
15:AP:56:ILE:CD1	15:AP:115:SER:HB3	2.19	0.71
15:AP:59:ASN:ND2	15:AP:60:ALA:N	2.38	0.71
16:AQ:11:ARG:HG3	16:AQ:12:ARG:HG2	1.70	0.71
16:AQ:24:LEU:CA	16:AQ:33:ARG:HH22	2.04	0.71
16:AQ:32:PRO:HD2	16:AQ:101:VAL:N	2.06	0.71
16:AQ:59:ALA:HB3	16:AQ:91:ARG:NH1	2.05	0.71
16:AQ:116:PHE:O	16:AQ:119:GLN:HB2	1.90	0.71
20:AU:40:VAL:HG12	20:AU:41:ARG:HG3	1.71	0.71
21:AV:50:GLY:O	21:AV:51:LEU:HB2	1.89	0.71
21:AV:136:VAL:O	21:AV:137:ASP:OD1	2.09	0.71
28:A4:49:PHE:CD1	28:A4:49:PHE:N	2.57	0.71
30:A6:35:LEU:HD23	30:A6:35:LEU:N	2.05	0.71
30:A6:39:LYS:O	30:A6:40:TYR:CD1	2.44	0.71
34:BA:195:A:H4'	55:BW:68:LYS:HZ3	1.56	0.71
34:BA:197:A:O2'	34:BA:198:G:OP2	2.08	0.71
34:BA:757:U:H1'	34:BA:879:C:H1'	1.73	0.71
34:BA:797:C:H2'	34:BA:798:G:H8	1.54	0.71
34:BA:848:C:C2	34:BA:849:C:C5	2.79	0.71
34:BA:1132:C:H2'	34:BA:1133:G:C8	2.25	0.71
34:BA:1188:A:H2'	34:BA:1189:C:C6	2.24	0.71
34:BA:1320:C:C1'	54:BV:73:GLU:HG2	2.21	0.71
34:BA:1490:C:C6	34:BA:1490:C:C5'	2.61	0.71
35:BC:9:A:C2	35:BC:45:G:C8	2.78	0.71
39:BG:25:ARG:NH2	39:BG:30:LYS:HD3	2.05	0.71
39:BG:93:PHE:CE1	39:BG:97:LEU:HD11	2.25	0.71
40:BH:110:LEU:HB3	40:BH:115:VAL:HG21	1.73	0.71
43:BK:24:THR:O	43:BK:24:THR:HG23	1.89	0.71
45:BM:38:ILE:HG12	45:BM:72:VAL:N	2.06	0.71
47:BO:25:PRO:O	47:BO:27:LEU:N	2.22	0.71
47:BO:90:VAL:O	47:BO:92:ASP:N	2.23	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:40:SER:O	50:BR:41:GLU:C	2.32	0.71
55:BW:50:GLU:N	55:BW:99:LEU:HD12	2.05	0.71
55:BW:57:ARG:HH21	55:BW:100:ILE:CG2	2.03	0.71
2:AA:85:G:N2	2:AA:86:C:C2	2.58	0.71
2:AA:197:A:C5	2:AA:2430:A:N7	2.59	0.71
2:AA:242:G:H2'	2:AA:254:G:H1	1.55	0.71
2:AA:270(H):C:C4	2:AA:270(R):G:C2	2.78	0.71
2:AA:308:G:C2	2:AA:329:G:N2	2.59	0.71
2:AA:338:G:OP1	20:AU:21:LYS:HD2	1.91	0.71
2:AA:465:G:C6	2:AA:466:A:N6	2.59	0.71
2:AA:465:G:N3	2:AA:683:C:O2'	2.24	0.71
2:AA:518:G:H4'	18:AS:18:ARG:NH2	2.05	0.71
2:AA:571:A:C8	2:AA:2030:A:N6	2.59	0.71
2:AA:615:G:O5'	2:AA:616:A:OP2	2.09	0.71
2:AA:676:A:H2'	2:AA:677:A:H5'	1.72	0.71
2:AA:834:C:H1'	2:AA:2358:G:C2	2.25	0.71
2:AA:888:C:O2'	2:AA:889:C:H3'	1.91	0.71
2:AA:928:G:H21	2:AA:929:G:H1	1.38	0.71
2:AA:957:A:N7	2:AA:959:A:C8	2.58	0.71
2:AA:974:G:N7	26:A2:80:TYR:CE1	2.58	0.71
2:AA:1024:G:N7	2:AA:1025:G:C5	2.58	0.71
2:AA:1143:A:O2'	2:AA:1144:G:H5'	1.89	0.71
2:AA:1160:G:H2'	2:AA:1161:C:C6	2.25	0.71
2:AA:1202:C:H5'	2:AA:1203:G:OP2	1.90	0.71
2:AA:1206:G:O6	2:AA:1207:C:O2	2.07	0.71
2:AA:1216:G:N2	2:AA:1234:U:C1'	2.53	0.71
2:AA:1223:C:C4	26:A2:87:ARG:NH2	2.57	0.71
2:AA:1224:G:N7	2:AA:1225:C:C5	2.58	0.71
2:AA:1409:C:O2'	2:AA:1410:G:H5'	1.91	0.71
2:AA:1468:C:C4	2:AA:1524:G:N2	2.58	0.71
2:AA:1475:G:N2	2:AA:1476:C:O5'	2.23	0.71
2:AA:1572:A:H8	2:AA:1572:A:OP1	1.74	0.71
2:AA:1616:A:H4'	2:AA:1617:C:OP1	1.90	0.71
2:AA:1943:U:O2'	2:AA:1944:U:O5'	2.08	0.71
2:AA:2132:U:O2	2:AA:2133:G:C2	2.42	0.71
2:AA:2330:G:N2	2:AA:2385:C:H42	1.88	0.71
2:AA:2345:G:H21	2:AA:2382:G:P	2.13	0.71
2:AA:2489:G:H2'	2:AA:2490:G:H8	1.53	0.71
2:AA:2595:G:N2	2:AA:2599:G:O6	2.22	0.71
2:AA:2604:U:C2	2:AA:2605:U:C5	2.79	0.71
2:AA:2779:U:C1'	2:AA:2781:A:N6	2.51	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2822:G:O2'	2:AA:2824:C:OP2	2.09	0.71
9:AJ:24:LYS:O	9:AJ:27:ASP:HB2	1.91	0.71
9:AJ:63:LEU:HD21	9:AJ:118:LEU:HD13	1.72	0.71
10:AK:47:LEU:HD13	10:AK:51:LYS:NZ	2.06	0.71
13:AN:21:VAL:HG12	13:AN:22:ILE:O	1.91	0.71
15:AP:50:VAL:HG12	15:AP:51:GLU:N	2.04	0.71
15:AP:82:LYS:O	15:AP:124:ALA:CA	2.39	0.71
16:AQ:33:ARG:HB3	16:AQ:35:VAL:CG2	2.20	0.71
16:AQ:34:LEU:O	16:AQ:34:LEU:HD12	1.91	0.71
18:AS:23:LEU:HD11	29:A5:27:ALA:N	2.04	0.71
19:AT:55:GLN:C	19:AT:56:ASN:HD22	1.97	0.71
21:AV:53:ASP:HA	21:AV:65:LEU:CD2	2.20	0.71
21:AV:69:VAL:CG1	21:AV:81:VAL:HG13	2.21	0.71
22:AW:43:PRO:CG	22:AW:46:ILE:HG12	2.20	0.71
23:AX:3:ARG:HB2	23:AX:60:GLU:CA	2.19	0.71
25:A1:8:ILE:N	25:A1:8:ILE:CD1	2.48	0.71
25:A1:59:ARG:O	25:A1:62:ILE:N	2.23	0.71
26:A2:5:ILE:HG13	26:A2:39:PHE:CD2	2.26	0.71
34:BA:237:C:OP1	52:BT:40:LYS:NZ	2.23	0.71
34:BA:445:G:O2'	34:BA:446:G:H5'	1.91	0.71
34:BA:609:A:C4	34:BA:610:G:C8	2.79	0.71
34:BA:762:C:N4	34:BA:763:G:O6	2.24	0.71
34:BA:766:A:C2'	34:BA:767:A:C8	2.63	0.71
34:BA:836:G:OP2	53:BU:61:LYS:NZ	2.24	0.71
34:BA:947:G:O3'	48:BP:109:THR:HB	1.89	0.71
34:BA:966:G:C2	35:BC:34:G:H5'	2.25	0.71
34:BA:1080:A:N7	34:BA:1081:G:C1'	2.53	0.71
34:BA:1257:U:O2'	34:BA:1258:G:C8	2.43	0.71
34:BA:1305:G:C5'	56:BX:5:ASP:N	2.49	0.71
34:BA:1373:G:C5'	42:BJ:36:LYS:HB2	2.21	0.71
35:BB:60:C:P	35:BB:61:C:C6	2.83	0.71
37:BE:7:VAL:HG23	37:BE:8:LYS:N	2.04	0.71
37:BE:91:PRO:HG3	37:BE:154:LEU:HB3	1.71	0.71
37:BE:97:TRP:CD1	37:BE:101:MET:SD	2.84	0.71
37:BE:136:VAL:CA	37:BE:139:LYS:NZ	2.52	0.71
37:BE:150:SER:HA	37:BE:153:ARG:HB2	1.72	0.71
38:BF:19:GLU:HB3	38:BF:55:VAL:O	1.90	0.71
39:BG:55:ALA:O	39:BG:59:ARG:CG	2.35	0.71
39:BG:190:ASP:O	39:BG:194:LEU:HD23	1.90	0.71
40:BH:31:LEU:HD23	40:BH:31:LEU:C	2.16	0.71
40:BH:68:GLU:O	40:BH:70:PRO:HD3	1.90	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:54:PHE:CD1	45:BM:55:LYS:HG2	2.25	0.71
46:BN:62:GLN:OE1	46:BN:63:LEU:HA	1.90	0.71
47:BO:24:VAL:HG13	47:BO:98:TYR:OH	1.90	0.71
50:BR:3:ILE:HG21	50:BR:34:LEU:HD21	1.72	0.71
50:BR:18:PHE:O	50:BR:18:PHE:HD1	1.73	0.71
52:BT:6:LEU:HD12	52:BT:6:LEU:N	2.06	0.71
52:BT:104:LYS:O	52:BT:105:ALA:HB2	1.89	0.71
55:BW:55:ILE:O	55:BW:56:MET:C	2.34	0.71
2:AA:136:G:N1	2:AA:143:C:C2	2.57	0.71
2:AA:139:G:C2'	2:AA:141(A):C:O2'	2.32	0.71
2:AA:179:G:C4	2:AA:180:G:C8	2.79	0.71
2:AA:270:A:N6	2:AA:370:G:C4	2.59	0.71
2:AA:290:G:H2'	2:AA:291:C:O5'	1.90	0.71
2:AA:544:C:O2	2:AA:549:G:N1	2.22	0.71
2:AA:581:C:H5''	25:A1:32:TYR:CB	2.17	0.71
2:AA:650:C:H42	2:AA:651:G:H1	1.37	0.71
2:AA:730:C:OP2	2:AA:731:C:OP2	2.08	0.71
2:AA:837:C:N3	2:AA:942:G:N2	2.38	0.71
2:AA:886:C:H1'	2:AA:887:A:N7	2.05	0.71
2:AA:975:G:C2	2:AA:976:C:H6	2.07	0.71
2:AA:983:A:H8	2:AA:984:A:H1'	1.51	0.71
2:AA:1131:G:N2	12:AM:69:TYR:CZ	2.58	0.71
2:AA:1393:A:N6	19:AT:13:LYS:NZ	2.36	0.71
2:AA:1538:G:H2'	2:AA:1539:G:C4'	2.20	0.71
2:AA:1697:G:C8	2:AA:1698:A:H5''	2.25	0.71
2:AA:1717:G:C6	2:AA:1742:C:N3	2.59	0.71
2:AA:2015:A:H8	2:AA:2016:U:C6	2.09	0.71
2:AA:2025:C:C2	2:AA:2026:C:C5	2.79	0.71
2:AA:2093:G:O2'	10:AK:29:PHE:CE1	2.36	0.71
2:AA:2256:G:H2'	2:AA:2257:U:O4'	1.89	0.71
2:AA:2287:A:C6	2:AA:2289:G:C4	2.79	0.71
2:AA:2348:U:H5''	32:A8:42:ARG:HH22	1.56	0.71
2:AA:2565:A:O3'	2:AA:2566:A:O4'	2.09	0.71
2:AA:2576:G:H4'	2:AA:2577:A:C5'	2.20	0.71
2:AA:2658:C:O2'	2:AA:2659:G:H5'	1.91	0.71
4:AD:145:LEU:H	4:AD:152:GLN:CG	2.04	0.71
5:AE:105:HIS:HB2	5:AE:108:LEU:CG	2.14	0.71
5:AE:193:PHE:CE2	5:AE:311:PHE:HD1	2.08	0.71
8:AH:132:VAL:HG12	8:AH:140:VAL:HG13	1.73	0.71
8:AH:143:LEU:O	8:AH:146:ASN:CB	2.39	0.71
10:AK:7:LYS:HA	10:AK:14:LYS:CG	2.13	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:58:ALA:O	10:AK:62:LEU:HG	1.90	0.71
11:AL:15:ALA:CB	11:AL:46:THR:HB	2.21	0.71
12:AM:54:VAL:HG22	12:AM:135:ILE:HD11	1.72	0.71
15:AP:48:ASN:ND2	15:AP:122:PHE:CB	2.53	0.71
16:AQ:102:LEU:CD2	16:AQ:129:ILE:HG23	2.20	0.71
17:AR:45:GLU:HB3	17:AR:48:ASN:ND2	2.05	0.71
18:AS:20:VAL:HG12	18:AS:21:VAL:N	2.05	0.71
20:AU:101:LEU:O	20:AU:103:LEU:HG	1.91	0.71
25:A1:84:LYS:HE3	25:A1:92:ARG:HH21	1.56	0.71
25:A1:99:ALA:HB2	25:A1:106:PHE:CE2	2.25	0.71
27:A3:48:GLY:H	27:A3:49:GLN:NE2	1.89	0.71
28:A4:43:TRP:CA	28:A4:61:LYS:HE3	2.18	0.71
28:A4:46:GLU:O	28:A4:53:GLU:HA	1.89	0.71
31:A7:21:ARG:HH22	31:A7:42:LEU:CB	2.03	0.71
34:BA:30:U:O2'	34:BA:31:G:OP1	2.07	0.71
34:BA:181:G:O2'	34:BA:182:U:OP2	2.06	0.71
34:BA:190(A):C:O2'	34:BA:190(B):C:H5'	1.90	0.71
34:BA:407:G:H4'	39:BG:115:ARG:HB3	1.70	0.71
34:BA:428:G:C2	34:BA:430:A:N6	2.59	0.71
34:BA:575:G:C6	34:BA:821:G:C8	2.79	0.71
34:BA:971:G:N2	34:BA:1363:A:OP2	2.23	0.71
34:BA:1363:A:C5'	34:BA:1364:U:OP1	2.39	0.71
38:BF:142:MET:SD	38:BF:146:ALA:HB3	2.30	0.71
39:BG:121:VAL:HA	39:BG:126:ILE:CG1	2.21	0.71
39:BG:177:ASP:CG	39:BG:179:GLU:HB2	2.15	0.71
40:BH:17:ALA:HA	40:BH:26:PHE:CB	2.21	0.71
40:BH:50:GLU:O	40:BH:53:LEU:HB2	1.90	0.71
43:BK:37:ARG:O	43:BK:41:ARG:HB2	1.90	0.71
45:BM:32:ALA:HB2	45:BM:75:ILE:O	1.90	0.71
51:BS:57:ARG:CA	51:BS:60:LEU:HD12	2.21	0.71
53:BU:51:LEU:HD12	53:BU:51:LEU:H	1.56	0.71
54:BV:32:LYS:HA	54:BV:50:ALA:CB	2.18	0.71
2:AA:147:U:O2'	2:AA:148:C:H5'	1.90	0.71
2:AA:271:G:H2'	2:AA:272:G:C8	2.23	0.71
2:AA:446:G:OP2	25:A1:3:ARG:NE	2.22	0.71
2:AA:464:U:H2'	2:AA:465:G:O4'	1.91	0.71
2:AA:475:U:C5	2:AA:509:C:N4	2.59	0.71
2:AA:495:G:H21	18:AS:61:ASN:ND2	1.89	0.71
2:AA:629:G:N2	2:AA:640:C:P	2.62	0.71
2:AA:758:C:O2'	2:AA:1981:A:N3	2.23	0.71
2:AA:904:C:H1'	21:AV:166:LEU:CD1	2.12	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:965:C:C5'	2:AA:2273:A:H1'	1.99	0.71
2:AA:974:G:O2'	2:AA:974(A):C:O5'	2.04	0.71
2:AA:1322:A:H2'	2:AA:1323:U:C5'	2.21	0.71
2:AA:1453:A:N6	24:A0:77:ARG:HD3	2.04	0.71
2:AA:1646:C:H3'	2:AA:1647:G:C5'	2.20	0.71
2:AA:1747:G:H2'	2:AA:1748:G:H8	1.56	0.71
2:AA:1851:U:H2'	2:AA:1852:C:H6	1.51	0.71
2:AA:2004:G:C5	2:AA:2005:A:C5	2.79	0.71
2:AA:2131:G:H5''	3:AC:6:ARG:CB	2.21	0.71
2:AA:2186:G:H2'	2:AA:2187:G:C8	2.25	0.71
2:AA:2320:A:H5'	2:AA:2321:G:C8	2.25	0.71
2:AA:2607:G:H2'	2:AA:2608:G:H5'	1.71	0.71
2:AA:2617:C:O2'	2:AA:2618:G:H5'	1.90	0.71
2:AA:2696:U:H2'	2:AA:2697:G:H8	1.56	0.71
3:AC:180:PHE:CE2	3:AC:184:LYS:HD3	2.24	0.71
4:AD:66:PHE:O	4:AD:66:PHE:CG	2.43	0.71
4:AD:196:ASN:HA	4:AD:199:ARG:CD	2.08	0.71
6:AF:196:THR:C	6:AF:236:THR:OG1	2.34	0.71
6:AF:239:ALA:O	6:AF:242:GLU:HG3	1.91	0.71
7:AG:76:ARG:O	7:AG:80:ALA:HB2	1.90	0.71
7:AG:93:LEU:HB3	7:AG:97:GLN:HE22	1.55	0.71
8:AH:102:LEU:HD21	8:AH:114:ILE:HB	1.73	0.71
9:AI:15:VAL:HG13	9:AI:45:ALA:O	1.90	0.71
9:AI:63:LEU:HD21	9:AI:118:LEU:HD13	1.73	0.71
9:AI:110:GLU:O	9:AI:113:GLU:HB2	1.91	0.71
11:AL:73:PRO:CG	11:AL:78:LEU:HD21	2.20	0.71
12:AM:23:ALA:O	12:AM:26:VAL:CB	2.35	0.71
15:AP:26:LYS:HD3	15:AP:90:PHE:CE1	2.26	0.71
16:AQ:47:LEU:H	16:AQ:57:THR:CG2	1.96	0.71
16:AQ:47:LEU:HD12	16:AQ:58:LEU:HD21	1.73	0.71
18:AS:37:ARG:NH2	29:A5:48:ASN:HD21	1.89	0.71
19:AT:18:MET:SD	19:AT:18:MET:N	2.64	0.71
21:AV:118:HIS:HB2	21:AV:168:VAL:O	1.91	0.71
25:A1:13:ARG:HD3	25:A1:16:LYS:NZ	2.05	0.71
26:A2:67:LYS:NZ	26:A2:94:LYS:HD2	2.06	0.71
30:A6:47:HIS:O	30:A6:48:VAL:HB	1.90	0.71
33:A9:7:VAL:CB	33:A9:36:GLN:OE1	2.31	0.71
34:BA:68:G:C4'	34:BA:171:A:H1'	2.20	0.71
34:BA:70:G:H2'	34:BA:73:C:C6	2.26	0.71
34:BA:197:A:N6	34:BA:221:C:H5'	2.06	0.71
34:BA:253:U:P	52:BT:67:LYS:HE3	2.30	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:450:G:O6	34:BA:481:G:H2'	1.90	0.71
34:BA:564:C:OP1	47:BO:15:ARG:NH2	2.24	0.71
34:BA:586:C:H1'	34:BA:878:G:O2'	1.90	0.71
34:BA:745:C:H2'	34:BA:746:A:H8	1.54	0.71
34:BA:800:G:O5'	34:BA:800:G:C8	2.43	0.71
34:BA:1064:G:OP1	34:BA:1386:G:H4'	1.91	0.71
34:BA:1143:G:H2'	34:BA:1144:G:C8	2.26	0.71
34:BA:1259:C:N3	34:BA:1276:G:N2	2.39	0.71
35:BB:28:C:C4	35:BB:43:G:N2	2.59	0.71
38:BF:59:ARG:NH2	38:BF:64:VAL:HG13	2.05	0.71
38:BF:90:GLU:O	38:BF:93:LYS:HB2	1.91	0.71
38:BF:195:VAL:C	38:BF:196:LEU:HD23	2.15	0.71
39:BG:129:ASN:HD21	39:BG:144:ASP:HB3	1.55	0.71
39:BG:130:GLY:HA3	39:BG:131:ARG:HH11	1.55	0.71
40:BH:15:ARG:CZ	40:BH:26:PHE:CE2	2.74	0.71
40:BH:94:ALA:HB3	40:BH:118:ILE:HA	1.73	0.71
41:BI:45:LEU:HG	41:BI:59:TYR:CD1	2.26	0.71
46:BN:54:ARG:C	46:BN:56:GLY:N	2.48	0.71
47:BO:86:ARG:HH12	47:BO:99:HIS:CE1	2.07	0.71
49:BQ:9:LYS:HZ3	49:BQ:10:ALA:HB2	1.52	0.71
49:BQ:45:ARG:O	49:BQ:48:ALA:HB3	1.89	0.71
55:BW:75:ASN:O	55:BW:79:ARG:HG3	1.89	0.71
2:AA:81:G:H2'	2:AA:82:G:O4'	1.91	0.71
2:AA:109:G:H5'	2:AA:348:G:O2'	1.89	0.71
2:AA:247:G:N7	2:AA:249:C:O2	2.24	0.71
2:AA:290:G:H22	2:AA:350:U:C2'	2.04	0.71
2:AA:297:C:C2	2:AA:342:G:N2	2.59	0.71
2:AA:343:C:H2'	2:AA:344:G:H5'	1.72	0.71
2:AA:775:G:N2	2:AA:788:A:P	2.64	0.71
2:AA:814:C:O3'	2:AA:1224:G:N2	2.24	0.71
2:AA:1087:G:H21	2:AA:1103:A:C3'	2.03	0.71
2:AA:1206:G:O6	2:AA:1207:C:H1'	1.90	0.71
2:AA:1266:G:O4'	18:AS:15:ARG:NH2	2.22	0.71
2:AA:1391:U:N3	2:AA:1394:U:H5	1.89	0.71
2:AA:1422:G:N3	2:AA:1423:G:C8	2.59	0.71
2:AA:1638:C:H4'	2:AA:2710:C:O2	1.90	0.71
2:AA:1681:G:O2'	2:AA:1763:G:C5'	2.38	0.71
2:AA:1758:G:N7	2:AA:2695:C:H4'	2.06	0.71
2:AA:1771:C:H2'	2:AA:1772:G:H8	1.56	0.71
2:AA:1872:A:C2'	2:AA:1878:G:H5'	2.21	0.71
2:AA:1993:U:H4'	5:AE:228:ARG:HE	1.55	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2083:G:O2'	2:AA:2084:C:H5'	1.90	0.71
2:AA:2469:A:C2	2:AA:2482:G:C1'	2.74	0.71
2:AA:2599:G:O2'	2:AA:2600:A:H5'	1.91	0.71
2:AA:2757:A:O2'	2:AA:2758:A:O5'	2.07	0.71
3:AC:41:VAL:CB	3:AC:176:GLY:O	2.38	0.71
4:AD:123:ILE:O	4:AD:123:ILE:HG22	1.90	0.71
4:AD:130:PRO:HB3	4:AD:186:LYS:O	1.91	0.71
4:AD:139:LEU:O	4:AD:139:LEU:CD1	2.39	0.71
5:AE:231:TRP:C	5:AE:232:ARG:HG3	2.14	0.71
5:AE:267:ARG:HB2	5:AE:297:LYS:CD	2.19	0.71
6:AF:55:ARG:C	6:AF:79:ARG:CZ	2.64	0.71
6:AF:87:ARG:HH11	6:AF:87:ARG:HG2	1.55	0.71
6:AF:218:VAL:HA	6:AF:222:ASP:OD2	1.91	0.71
7:AG:93:LEU:HD22	7:AG:106:PHE:CD2	2.25	0.71
11:AL:9:ILE:HD11	11:AL:31:HIS:HB3	1.71	0.71
12:AM:83:ILE:HG13	12:AM:84:ARG:H	1.55	0.71
13:AN:71:ARG:HH22	13:AN:77:ILE:HG21	1.56	0.71
13:AN:87:ILE:HG22	13:AN:88:ARG:O	1.91	0.71
13:AN:104:ARG:HD2	13:AN:104:ARG:H	1.56	0.71
22:AW:20:LEU:HA	22:AW:23:LEU:CD1	2.21	0.71
24:A0:63:ARG:HH12	24:A0:80:PHE:HB3	1.56	0.71
24:A0:88:ARG:HB2	24:A0:88:ARG:HH11	1.54	0.71
25:A1:9:VAL:C	25:A1:13:ARG:HH22	1.98	0.71
26:A2:11:GLN:OE1	26:A2:22:VAL:HG23	1.89	0.71
28:A4:59:PHE:O	28:A4:60:ASN:C	2.34	0.71
30:A6:16:ALA:HB3	30:A6:19:GLY:N	2.05	0.71
31:A7:11:LYS:O	31:A7:12:ARG:C	2.34	0.71
34:BA:109:A:C4'	34:BA:110:C:OP2	2.39	0.71
34:BA:373:A:N7	34:BA:482:A:N7	2.39	0.71
34:BA:781:A:C6	34:BA:802:A:N3	2.59	0.71
34:BA:826:C:H2'	34:BA:827:U:C6	2.26	0.71
34:BA:1376:U:H5''	42:BJ:94:ARG:HH22	1.56	0.71
34:BA:1399:C:H42	34:BA:1504:G:H1	1.39	0.71
35:BC:4:G:C5	35:BC:5:A:N7	2.58	0.71
37:BE:17:PHE:CD1	37:BE:18:GLY:N	2.59	0.71
37:BE:140:HIS:HA	37:BE:143:GLU:CB	2.21	0.71
38:BF:136:GLN:O	38:BF:139:GLN:HB2	1.91	0.71
43:BK:77:GLU:HG2	43:BK:78:GLN:N	2.06	0.71
44:BL:118:LYS:C	44:BL:120:ARG:N	2.48	0.71
46:BN:85:ARG:NE	46:BN:111:ASP:CG	2.48	0.71
46:BN:95:ILE:HG23	46:BN:98:LEU:HD12	1.71	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:31:LEU:O	52:BT:32:TYR:HD2	1.72	0.71
53:BU:31:LEU:CD1	53:BU:62:GLU:OE2	2.38	0.71
53:BU:67:ALA:HA	53:BU:70:ILE:HD12	1.73	0.71
55:BW:51:GLU:HA	55:BW:54:LYS:CD	2.21	0.71
2:AA:138:G:N3	2:AA:139:G:O4'	2.24	0.70
2:AA:141(A):C:O5'	2:AA:141(A):C:H6	1.74	0.70
2:AA:184:C:H2'	2:AA:185:U:H6	1.56	0.70
2:AA:190:A:H2'	2:AA:191:A:C8	2.25	0.70
2:AA:251:A:H2'	2:AA:252:G:O5'	1.91	0.70
2:AA:290:G:O5'	2:AA:351:G:O6	2.09	0.70
2:AA:462:C:C2	2:AA:468:G:N2	2.59	0.70
2:AA:484:C:C2'	2:AA:485:C:H6	1.96	0.70
2:AA:594:U:H2'	2:AA:595:C:C5	2.26	0.70
2:AA:605:C:H2'	2:AA:606:U:H6	1.52	0.70
2:AA:612:G:C2'	2:AA:615:G:H2'	2.21	0.70
2:AA:742:G:C2	2:AA:743:G:C8	2.79	0.70
2:AA:784:A:N6	2:AA:792:G:H1'	2.05	0.70
2:AA:789:A:O2'	2:AA:790:C:P	2.48	0.70
2:AA:1087:G:H2'	2:AA:1103:A:H2	1.55	0.70
2:AA:1255:U:O2	2:AA:1255:U:H2'	1.90	0.70
2:AA:1582:C:N3	2:AA:1583:A:C4	2.59	0.70
2:AA:1594:G:O2'	2:AA:1595:G:H5'	1.91	0.70
2:AA:1909:C:C6	2:AA:1922:G:N2	2.59	0.70
2:AA:2055:C:H2'	2:AA:2055:C:O2	1.89	0.70
2:AA:2111:C:N4	2:AA:2120:G:C1'	2.48	0.70
2:AA:2603:G:C5	2:AA:2604:U:C5	2.78	0.70
2:AA:2698:U:H2'	2:AA:2699:C:H6	1.55	0.70
2:AA:2845:G:N1	2:AA:2871:C:O2	2.19	0.70
3:AC:200:LYS:CB	3:AC:208:PHE:CZ	2.74	0.70
6:AF:193:LEU:HD11	6:AF:231:ARG:HB3	1.73	0.70
6:AF:223:LEU:HD22	6:AF:233:THR:CG2	2.08	0.70
10:AK:7:LYS:N	10:AK:14:LYS:HG2	2.04	0.70
10:AK:28:ASN:ND2	10:AK:32:LYS:HG3	2.05	0.70
12:AM:66:ASP:O	12:AM:68:GLY:N	2.24	0.70
12:AM:135:ILE:O	12:AM:139:LEU:CD2	2.39	0.70
13:AN:43:VAL:HB	13:AN:56:GLN:N	2.06	0.70
15:AP:45:GLN:HE22	15:AP:153:PRO:CB	1.95	0.70
20:AU:78:THR:O	20:AU:89:ARG:NE	2.23	0.70
20:AU:103:LEU:HD23	20:AU:108:ARG:HB3	1.72	0.70
21:AV:16:GLU:C	21:AV:36:ARG:NH1	2.49	0.70
21:AV:25:ASN:O	21:AV:26:LYS:C	2.34	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:23:LEU:CA	23:AX:28:LEU:HD12	2.17	0.70
26:A2:22:VAL:HG12	26:A2:23:GLU:N	2.03	0.70
31:A7:17:GLY:CA	31:A7:44:VAL:HG23	2.20	0.70
34:BA:266:G:N2	34:BA:270:A:H62	1.88	0.70
34:BA:269:C:H2'	34:BA:270:A:C8	2.26	0.70
34:BA:377:G:O2'	34:BA:378:G:O5'	2.07	0.70
34:BA:529:G:C6	47:BO:49:ASN:ND2	2.59	0.70
34:BA:565:U:H3'	34:BA:566:G:H8	1.55	0.70
34:BA:689:C:H4'	34:BA:705:U:O2	1.90	0.70
34:BA:767:A:N6	34:BA:813:U:H3	1.88	0.70
34:BA:791:G:N2	34:BA:1497:G:O3'	2.22	0.70
34:BA:1269:A:H8	34:BA:1270:C:C1'	2.04	0.70
34:BA:1391:U:H2'	34:BA:1392:G:C8	2.25	0.70
34:BA:1451:A:C8	34:BA:1451:A:H3'	2.26	0.70
35:BB:11:C:C4	35:BB:12:U:C4	2.78	0.70
35:BC:19:G:C5	35:BC:57:G:N2	2.58	0.70
35:BC:44:A:N1	35:BC:45:G:N3	2.39	0.70
37:BE:223:ILE:O	37:BE:226:ARG:HB2	1.91	0.70
39:BG:57:ARG:HB3	39:BG:206:PHE:HB2	1.73	0.70
40:BH:61:TYR:CA	40:BH:64:ARG:HG3	2.17	0.70
42:BJ:11:GLN:HE21	42:BJ:12:LEU:H	1.38	0.70
43:BK:81:HIS:HB3	43:BK:138:TRP:O	1.91	0.70
43:BK:109:ILE:O	43:BK:109:ILE:CG1	2.39	0.70
50:BR:29:VAL:HG12	50:BR:85:LEU:HD11	1.73	0.70
51:BS:4:ILE:HA	51:BS:20:VAL:O	1.91	0.70
54:BV:30:LEU:O	54:BV:31:ILE:HG12	1.89	0.70
2:AA:139:G:C8	2:AA:141(A):C:H2'	2.25	0.70
2:AA:197:A:N6	2:AA:248:G:N2	2.37	0.70
2:AA:449:A:C2	2:AA:450:G:N9	2.59	0.70
2:AA:752:A:H4'	2:AA:753:C:C5'	2.20	0.70
2:AA:953:A:O2'	2:AA:954:G:H5'	1.91	0.70
2:AA:1058:G:O2'	2:AA:1059:G:C5'	2.39	0.70
2:AA:1156:A:H2	25:A1:51:ARG:NH2	1.88	0.70
2:AA:1193:G:C2'	2:AA:1194:A:H5'	2.21	0.70
2:AA:1212:G:HO2'	2:AA:1213:A:H8	1.39	0.70
2:AA:1213:A:H61	2:AA:1236:G:H1'	1.56	0.70
2:AA:1287:A:H2'	2:AA:1288:U:C6	2.26	0.70
2:AA:1582:C:C2	2:AA:1583:A:H1'	2.25	0.70
2:AA:1704:G:N2	2:AA:1705:G:H1'	2.05	0.70
2:AA:1918:A:C2'	2:AA:1919:A:N7	2.55	0.70
2:AA:1924:C:N3	2:AA:1925:C:C5	2.59	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1967:C:H2'	2:AA:1968:G:H5'	1.72	0.70
2:AA:2156:G:C8	2:AA:2156:G:O5'	2.44	0.70
2:AA:2199:A:C2	2:AA:2225:A:N3	2.59	0.70
2:AA:2314:C:H2'	2:AA:2315:G:C8	2.26	0.70
2:AA:2406:U:C4	14:AO:55:GLN:HB3	2.26	0.70
2:AA:2432:A:N7	28:A4:30:GLU:CB	2.55	0.70
2:AA:2700:C:H2'	2:AA:2701:C:C5'	2.19	0.70
2:AA:2733:A:H61	5:AE:316:ARG:HD3	1.55	0.70
4:AD:97:ASP:HB3	4:AD:99:GLU:OE2	1.91	0.70
4:AD:208:GLY:HA3	4:AD:210:LYS:HE2	1.73	0.70
4:AD:213:LYS:HB3	4:AD:215:LYS:CA	2.22	0.70
5:AE:71:THR:OG1	5:AE:299:SER:CA	2.39	0.70
7:AG:56:ARG:HE	7:AG:65:GLU:HB2	1.54	0.70
8:AH:17:THR:HG22	8:AH:19:ASN:OD1	1.91	0.70
9:AJ:74:ILE:HG12	9:AJ:92:VAL:HG21	1.73	0.70
10:AK:2:LYS:HG3	10:AK:18:ILE:CD1	2.21	0.70
10:AK:94:THR:N	10:AK:97:GLN:OE1	2.19	0.70
11:AL:132:ALA:HA	11:AL:137:ILE:HB	1.72	0.70
12:AM:4:ALA:C	12:AM:109:TYR:OH	2.33	0.70
14:AO:94:ARG:CD	14:AO:120:LEU:HD22	2.19	0.70
15:AP:69:ASN:ND2	15:AP:70:ARG:N	2.38	0.70
16:AQ:11:ARG:HA	16:AQ:14:ARG:CZ	2.21	0.70
16:AQ:90:LEU:O	16:AQ:93:GLN:OE1	2.09	0.70
18:AS:84:ARG:HA	18:AS:84:ARG:CZ	2.21	0.70
19:AT:7:HIS:CE1	19:AT:8:PRO:O	2.44	0.70
20:AU:50:VAL:O	20:AU:97:ARG:NH2	2.24	0.70
23:AX:8:LEU:HA	23:AX:54:VAL:HG12	1.72	0.70
24:A0:61:HIS:C	24:A0:64:ARG:HH11	1.98	0.70
24:A0:61:HIS:ND1	24:A0:64:ARG:CZ	2.53	0.70
24:A0:118:GLU:OE2	24:A0:118:GLU:HA	1.90	0.70
30:A6:29:ARG:CG	30:A6:30:ASN:N	2.54	0.70
31:A7:25:LYS:NZ	31:A7:28:ARG:NH2	2.40	0.70
34:BA:232:G:H2'	34:BA:233:C:H6	1.56	0.70
34:BA:253:U:O4	34:BA:273:A:N1	2.24	0.70
34:BA:376:G:OP1	51:BS:5:ARG:HB2	1.91	0.70
34:BA:392:G:P	51:BS:12:LYS:HZ1	2.13	0.70
34:BA:515:G:H1	34:BA:536:C:N4	1.88	0.70
34:BA:1004:A:H5''	34:BA:1025:U:C4	2.25	0.70
34:BA:1067:A:O2'	34:BA:1068:G:OP2	2.07	0.70
34:BA:1225:A:H4'	54:BV:78:ARG:HD3	1.73	0.70
34:BA:1283:G:C2'	34:BA:1284:C:H5'	2.21	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1464:G:H2'	34:BA:1465:C:C6	2.26	0.70
34:BA:1540:U:O4	34:BA:1541:U:O4	2.09	0.70
35:BB:35:A:N1	36:B1:65:U:H2'	2.06	0.70
35:BB:37:G:N7	35:BB:38:A:N7	2.39	0.70
36:B1:53:G:H2'	36:B1:54:G:C8	2.25	0.70
36:B1:59:A:H4'	36:B1:59:A:OP2	1.90	0.70
37:BE:213:LEU:HD23	37:BE:213:LEU:C	2.16	0.70
39:BG:19:LEU:CA	39:BG:21:LEU:HG	2.21	0.70
39:BG:88:VAL:CG2	40:BH:96:PRO:HB3	2.21	0.70
45:BM:34:VAL:HG22	45:BM:74:ILE:CD1	2.21	0.70
47:BO:102:ARG:HE	47:BO:109:GLY:C	1.99	0.70
48:BP:63:THR:CG2	48:BP:64:TRP:N	2.54	0.70
51:BS:43:LYS:HG3	51:BS:48:TRP:CE3	2.26	0.70
1:AB:114:G:H2'	1:AB:115:G:H8	1.56	0.70
2:AA:50:U:H3'	2:AA:50:U:C6	2.26	0.70
2:AA:139:G:O3'	2:AA:141(A):C:H1'	1.90	0.70
2:AA:204:A:O2'	2:AA:205:G:O5'	2.09	0.70
2:AA:221:A:C5	2:AA:266:G:N7	2.59	0.70
2:AA:342:G:C2'	2:AA:343:C:C6	2.74	0.70
2:AA:585:G:N3	2:AA:1251:C:N4	2.38	0.70
2:AA:755:C:H2'	2:AA:756:C:C6	2.24	0.70
2:AA:990:A:N6	2:AA:1186:G:N3	2.39	0.70
2:AA:1000:A:N7	2:AA:1001:A:C6	2.60	0.70
2:AA:1149:G:H2'	2:AA:1150:C:H6	1.56	0.70
2:AA:1252:G:H8	2:AA:1253:A:C1'	2.01	0.70
2:AA:1278:A:O3'	24:A0:34:ILE:HD12	1.91	0.70
2:AA:1301:A:N6	2:AA:1303:G:H1'	2.06	0.70
2:AA:1333:C:H5'	2:AA:1333:C:C6	2.24	0.70
2:AA:1455:G:C8	2:AA:1455:G:H3'	2.26	0.70
2:AA:1492:G:H21	2:AA:1493:C:N4	1.89	0.70
2:AA:1572:A:C2'	2:AA:1573:G:OP1	2.39	0.70
2:AA:1593:G:H2'	2:AA:1594:G:C8	2.26	0.70
2:AA:2046:G:H1'	29:A5:22:HIS:HD1	1.56	0.70
2:AA:2053:G:H1	2:AA:2616:C:N4	1.88	0.70
2:AA:2122:U:H2'	2:AA:2122:U:O2	1.91	0.70
2:AA:2128:C:OP2	2:AA:2129:C:H4'	1.91	0.70
2:AA:2256:G:C5'	27:A3:5:LYS:HE2	2.21	0.70
2:AA:2553:G:H21	2:AA:2583:G:C2'	2.02	0.70
2:AA:2583:G:H2'	2:AA:2584:U:C2	2.26	0.70
2:AA:2618:G:C2	2:AA:2619:C:C6	2.78	0.70
2:AA:2721:A:H2'	2:AA:2722:G:C8	2.26	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2816:C:O2'	2:AA:2817:G:H5'	1.91	0.70
2:AA:2893:G:OP2	2:AA:2893:G:H8	1.73	0.70
5:AE:104:PHE:HB3	5:AE:108:LEU:HD12	1.73	0.70
5:AE:202:ALA:CA	5:AE:262:THR:HB	2.14	0.70
7:AG:99:ASP:N	7:AG:104:PHE:CD2	2.59	0.70
8:AH:86:LEU:HD13	8:AH:86:LEU:C	2.16	0.70
8:AH:93:TYR:CD2	8:AH:159:LYS:HE2	2.26	0.70
8:AH:148:ARG:HH22	8:AH:164:GLU:N	1.88	0.70
9:AJ:60:ASP:H	9:AJ:128:LYS:HG2	1.55	0.70
11:AL:75:ALA:CB	11:AL:131:THR:HG21	2.19	0.70
11:AL:93:LYS:HA	11:AL:96:ILE:CD1	2.21	0.70
12:AM:24:SER:CB	12:AM:86:MET:HE3	2.21	0.70
13:AN:7:ARG:CB	13:AN:44:LYS:NZ	2.53	0.70
13:AN:22:ILE:HG22	13:AN:23:LYS:N	2.04	0.70
15:AP:59:ASN:HA	15:AP:62:GLU:OE1	1.92	0.70
15:AP:86:ARG:NH2	15:AP:123:ILE:HD11	2.05	0.70
15:AP:95:GLU:N	15:AP:95:GLU:CD	2.49	0.70
17:AR:50:GLU:HG3	17:AR:55:ALA:HB1	1.72	0.70
21:AV:166:LEU:HD13	21:AV:167:THR:H	1.55	0.70
23:AX:19:GLN:CD	23:AX:19:GLN:H	1.98	0.70
24:A0:20:LEU:HD22	24:A0:24:GLN:HG3	1.73	0.70
26:A2:24:SER:OG	26:A2:28:GLU:HG3	1.91	0.70
26:A2:27:GLY:O	26:A2:28:GLU:O	2.09	0.70
26:A2:42:GLY:N	26:A2:54:TYR:CE1	2.52	0.70
28:A4:15:ILE:HD12	28:A4:15:ILE:N	2.06	0.70
28:A4:17:GLN:OE1	28:A4:33:VAL:O	2.09	0.70
31:A7:30:ILE:HA	31:A7:33:ARG:CD	2.20	0.70
32:A8:54:GLU:O	32:A8:55:TRP:C	2.34	0.70
34:BA:306:G:H2'	34:BA:307:C:H6	1.56	0.70
34:BA:515:G:H1'	34:BA:537:G:N2	2.07	0.70
34:BA:521:G:OP1	47:BO:73:GLU:O	2.10	0.70
34:BA:648:A:C2	34:BA:649:G:C8	2.79	0.70
34:BA:834:C:N4	34:BA:853:G:C6	2.59	0.70
34:BA:1180:A:H5'	44:BL:103:THR:OG1	1.92	0.70
34:BA:1226:C:N4	48:BP:104:ARG:HG3	2.06	0.70
34:BA:1256:A:O3'	34:BA:1257:U:C4'	2.39	0.70
37:BE:194:PRO:O	37:BE:196:LEU:N	2.23	0.70
38:BF:15:THR:HG21	38:BF:181:ASN:HB2	1.74	0.70
38:BF:88:ARG:CZ	38:BF:101:LEU:N	2.54	0.70
38:BF:180:ALA:HB1	38:BF:203:PHE:CE1	2.24	0.70
40:BH:74:GLY:C	40:BH:115:VAL:HG12	2.16	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:102:ALA:HB1	40:BH:120:THR:HG22	1.71	0.70
41:BI:11:ASN:HD21	41:BI:13:ASN:HD22	1.39	0.70
45:BM:45:ARG:HH11	45:BM:45:ARG:CB	2.01	0.70
46:BN:27:ASN:ND2	46:BN:55:LYS:HZ2	1.88	0.70
47:BO:17:LYS:HA	47:BO:17:LYS:HZ2	1.56	0.70
47:BO:113:ARG:O	47:BO:114:LYS:HG3	1.90	0.70
49:BQ:24:CYS:O	49:BQ:28:GLY:HA2	1.91	0.70
1:AB:59:A:H4'	7:AG:144:ARG:HG2	1.72	0.70
2:AA:202:U:C5	2:AA:203:C:C4	2.80	0.70
2:AA:237:C:O2	2:AA:608:A:O2'	2.08	0.70
2:AA:239:U:H1'	2:AA:259:G:N2	2.06	0.70
2:AA:247:G:N2	32:A8:8:LYS:HZ2	1.90	0.70
2:AA:271(C):U:O4	2:AA:421:U:N1	2.24	0.70
2:AA:414:C:O2	2:AA:1864:U:H4'	1.89	0.70
2:AA:921:G:N2	27:A3:23:VAL:HG11	2.07	0.70
2:AA:974(A):C:O2'	2:AA:989:G:N2	2.24	0.70
2:AA:1012:U:C5'	2:AA:1013:C:OP1	2.37	0.70
2:AA:1312:U:H1'	2:AA:1313:U:C5	2.27	0.70
2:AA:1663:C:O2'	2:AA:1664:A:C8	2.42	0.70
2:AA:1886:C:O2'	2:AA:1887:C:H5'	1.92	0.70
2:AA:1958:C:O2'	2:AA:1959:G:H5'	1.89	0.70
2:AA:1977:A:C4	2:AA:1978:A:C8	2.80	0.70
2:AA:2269:A:OP1	2:AA:2269:A:H3'	1.92	0.70
2:AA:2289:G:OP1	2:AA:2384:G:O2'	2.09	0.70
2:AA:2528:U:O2'	2:AA:2529:G:H3'	1.90	0.70
2:AA:2553:G:O2'	2:AA:2582:G:H1'	1.92	0.70
2:AA:2585:U:OP1	2:AA:2585:U:H6	1.74	0.70
2:AA:2589:A:H61	2:AA:2605:U:H3	1.38	0.70
2:AA:2592:G:C2'	2:AA:2593:U:O5'	2.40	0.70
2:AA:2766:G:N3	2:AA:2766:G:H2'	2.07	0.70
2:AA:2811:G:N2	2:AA:2891:G:H1'	2.06	0.70
5:AE:217:TRP:CD2	5:AE:251:PRO:HG3	2.26	0.70
6:AF:1:MET:C	6:AF:18:LEU:HG	2.15	0.70
6:AF:59:GLU:O	6:AF:61:PHE:CD2	2.43	0.70
6:AF:84:VAL:HB	6:AF:85:LYS:HD2	1.72	0.70
6:AF:223:LEU:HD21	6:AF:235:PHE:HZ	1.52	0.70
12:AM:58:GLU:HG3	12:AM:139:LEU:CB	2.19	0.70
12:AM:84:ARG:CA	12:AM:98:PHE:HE2	2.05	0.70
15:AP:59:ASN:HD22	15:AP:60:ALA:N	1.89	0.70
16:AQ:104:ILE:HG22	16:AQ:106:LEU:O	1.91	0.70
16:AQ:108:SER:O	16:AQ:109:PRO:C	2.33	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:4:LYS:CD	18:AS:106:ILE:HG12	2.20	0.70
19:AT:9:HIS:CE1	19:AT:63:LYS:HG2	2.26	0.70
19:AT:26:PHE:N	19:AT:26:PHE:CD1	2.57	0.70
24:A0:24:GLN:O	24:A0:25:ALA:C	2.35	0.70
24:A0:73:VAL:HG12	24:A0:77:ARG:CD	2.22	0.70
28:A4:10:VAL:O	28:A4:10:VAL:HG12	1.91	0.70
31:A7:25:LYS:HZ3	31:A7:28:ARG:NH2	1.89	0.70
32:A8:34:THR:HG22	32:A8:36:LYS:HD2	1.73	0.70
32:A8:60:LEU:HD23	32:A8:60:LEU:C	2.16	0.70
34:BA:33:A:H5''	34:BA:34:C:OP2	1.90	0.70
34:BA:594:G:H1	34:BA:645:C:H42	1.39	0.70
34:BA:834:C:H2'	34:BA:835:U:C6	2.25	0.70
34:BA:969:A:H5'	34:BA:969:A:H8	1.55	0.70
34:BA:1353:G:N1	34:BA:1370:G:C2	2.58	0.70
38:BF:18:TRP:HE3	38:BF:18:TRP:H	1.39	0.70
38:BF:47:LEU:N	38:BF:47:LEU:HD22	2.06	0.70
38:BF:186:PHE:HA	38:BF:198:VAL:O	1.92	0.70
39:BG:173:TRP:CD1	39:BG:185:PHE:CE2	2.79	0.70
48:BP:14:ARG:H	48:BP:44:ARG:CZ	2.04	0.70
53:BU:77:GLY:O	53:BU:79:LEU:HD13	1.91	0.70
1:AB:110:G:C2	1:AB:111:U:H1'	2.26	0.70
2:AA:58:G:C2	2:AA:73:A:C2	2.79	0.70
2:AA:137(A):G:C5'	2:AA:138:G:OP2	2.34	0.70
2:AA:265:A:C2	2:AA:266:G:N3	2.55	0.70
2:AA:398:G:H21	2:AA:399:G:H1'	1.56	0.70
2:AA:858:U:H2'	2:AA:2268:A:C2'	2.21	0.70
2:AA:1168:G:C2'	2:AA:1169:G:H5'	2.22	0.70
2:AA:1286:A:H2'	2:AA:1288:U:OP2	1.89	0.70
2:AA:1327:C:C2'	2:AA:1328:G:H8	2.03	0.70
2:AA:444(A):A:C2	2:AA:1461:G:O5'	2.44	0.70
2:AA:1520:U:OP2	2:AA:1520:U:C5	2.44	0.70
2:AA:1637:A:O2'	2:AA:1638:C:H5'	1.92	0.70
2:AA:1767:C:O2'	2:AA:1768:U:H5'	1.91	0.70
2:AA:1771:C:N3	2:AA:1980:G:N2	2.34	0.70
2:AA:1800:C:H2'	2:AA:1801:G:H5''	1.73	0.70
2:AA:2056:G:C8	2:AA:2577:A:C6	2.80	0.70
2:AA:2193:G:C2	2:AA:2194:G:C8	2.80	0.70
2:AA:2252:G:H1	35:BC:74:C:H42	1.39	0.70
2:AA:2296:U:C6	2:AA:2296:U:C3'	2.66	0.70
2:AA:2307:G:H1'	2:AA:2311:A:N6	2.06	0.70
2:AA:2809:A:O4'	2:AA:2811:G:N7	2.25	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:114:VAL:HG21	3:AC:153:ILE:HD11	1.74	0.70
4:AD:121:ALA:HA	4:AD:129:LEU:HD13	1.72	0.70
5:AE:45:LYS:NZ	5:AE:302:GLY:C	2.50	0.70
6:AF:81:PRO:CA	6:AF:87:ARG:HH11	2.03	0.70
9:AI:3:ILE:HD13	11:AL:117:ASN:CG	2.16	0.70
9:AI:60:ASP:H	9:AI:128:LYS:HG2	1.57	0.70
10:AK:79:ILE:HD12	10:AK:79:ILE:H	1.57	0.70
10:AK:95:SER:HA	10:AK:98:ILE:CG1	2.21	0.70
13:AN:64:ARG:CB	13:AN:79:PHE:CD1	2.74	0.70
13:AN:107:ARG:CA	13:AN:115:ILE:HD11	2.21	0.70
16:AQ:97:VAL:HG12	16:AQ:98:GLU:N	2.07	0.70
20:AU:31:LEU:HA	20:AU:34:GLU:CD	2.16	0.70
20:AU:71:VAL:HG22	20:AU:91:LEU:O	1.91	0.70
21:AV:57:GLU:O	21:AV:59:GLY:N	2.25	0.70
25:A1:99:ALA:HB2	25:A1:106:PHE:CE1	2.26	0.70
31:A7:20:ALA:O	31:A7:23:LYS:HB2	1.90	0.70
34:BA:333:G:H4'	55:BW:16:HIS:NE2	2.06	0.70
34:BA:474:G:O2'	34:BA:475:G:H5'	1.91	0.70
34:BA:482:A:C2	34:BA:483:C:O4'	2.44	0.70
34:BA:582:U:H2'	34:BA:583:A:O5'	1.91	0.70
34:BA:723:U:O5'	34:BA:723:U:C6	2.45	0.70
34:BA:984:C:N3	34:BA:1221:G:N2	2.37	0.70
34:BA:1237:C:H4'	34:BA:1334:G:H22	1.56	0.70
35:BB:19:G:C1'	35:BB:57:G:H21	2.04	0.70
35:BC:17:U:H3'	35:BC:18:G:C8	2.23	0.70
39:BG:15:GLU:HG2	39:BG:63:LYS:CB	2.22	0.70
41:BI:83:ASP:OD2	41:BI:84:ASN:N	2.22	0.70
42:BJ:114:ARG:HG2	42:BJ:114:ARG:NH1	2.06	0.70
46:BN:25:TYR:OH	46:BN:87:THR:HB	1.92	0.70
46:BN:69:ALA:O	46:BN:72:ALA:HB3	1.91	0.70
46:BN:85:ARG:NH2	46:BN:111:ASP:CG	2.49	0.70
46:BN:85:ARG:NH2	46:BN:111:ASP:OD1	2.17	0.70
51:BS:6:LEU:N	51:BS:6:LEU:CD1	2.54	0.70
51:BS:6:LEU:HB2	51:BS:17:TYR:CB	2.22	0.70
53:BU:86:VAL:O	53:BU:87:ARG:HG2	1.90	0.70
55:BW:57:ARG:HH21	55:BW:100:ILE:HG22	1.56	0.70
55:BW:72:LEU:HD22	55:BW:77:ALA:H	1.54	0.70
55:BW:88:VAL:CG1	55:BW:92:LEU:HD11	2.21	0.70
2:AA:41:C:H2'	2:AA:43:G:H8	1.56	0.70
2:AA:154:G:C4	2:AA:155:C:H1'	2.26	0.70
2:AA:219:G:H2'	2:AA:220:G:H8	1.56	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:273(D):C:C2'	2:AA:273(E):U:H5'	2.20	0.70
2:AA:299:A:C4	2:AA:322:A:N6	2.60	0.70
2:AA:399:G:C6	2:AA:400:G:H1'	2.26	0.70
2:AA:559:G:O2'	2:AA:560:C:O5'	2.09	0.70
2:AA:640:C:H41	2:AA:641:C:N4	1.88	0.70
2:AA:743:G:OP1	5:AE:229:GLN:HG2	1.90	0.70
2:AA:833:U:H2'	2:AA:834:C:H6	1.56	0.70
2:AA:906:G:H2'	2:AA:906:G:N3	2.06	0.70
2:AA:910:A:C6	2:AA:911:A:N6	2.59	0.70
2:AA:929:G:OP2	2:AA:930:U:C5	2.45	0.70
2:AA:993:G:C2	25:A1:54:LYS:NZ	2.60	0.70
2:AA:997:G:C4'	25:A1:92:ARG:NH1	2.54	0.70
2:AA:1009:A:O4'	25:A1:59:ARG:NE	2.24	0.70
2:AA:1080:C:H2'	2:AA:1081:U:O4'	1.90	0.70
2:AA:1300:U:C6	2:AA:1301:A:C2	2.80	0.70
2:AA:1300:U:H2'	2:AA:1634:A:O2'	1.92	0.70
2:AA:1301:A:O2'	2:AA:1302:A:H8	1.74	0.70
2:AA:1426:G:C8	2:AA:1427:A:N7	2.59	0.70
2:AA:1471:A:C2	2:AA:1472:A:C1'	2.67	0.70
2:AA:1518:C:H3'	2:AA:1519:G:C5'	2.21	0.70
2:AA:1899:G:H22	2:AA:1902:C:H41	1.39	0.70
2:AA:1992:G:N7	2:AA:1997:G:C6	2.59	0.70
2:AA:2105:C:N4	2:AA:2106:G:O6	2.25	0.70
2:AA:2119:A:P	2:AA:2120:G:H5''	2.31	0.70
2:AA:2339:G:H2'	2:AA:2340:G:H8	1.54	0.70
2:AA:2531:A:C2	2:AA:2658:C:O2	2.44	0.70
2:AA:2630:G:N7	2:AA:2894:G:C6	2.59	0.70
2:AA:2657:A:C2	2:AA:2665:A:C4	2.79	0.70
2:AA:2795:G:OP2	2:AA:2795:G:H3'	1.90	0.70
2:AA:2880:C:H1'	24:A0:91:GLN:O	1.90	0.70
4:AD:107:LYS:CB	4:AD:194:VAL:O	2.40	0.70
5:AE:217:TRP:CZ2	5:AE:251:PRO:HB3	2.26	0.70
7:AG:29:HIS:ND1	7:AG:69:ILE:CD1	2.54	0.70
8:AH:34:ARG:HD2	8:AH:36:PHE:CZ	2.27	0.70
9:AJ:110:GLU:O	9:AJ:113:GLU:HB2	1.91	0.70
10:AK:3:VAL:HG21	10:AK:21:VAL:H	1.56	0.70
10:AK:124:LEU:HG	10:AK:146:THR:HA	1.72	0.70
12:AM:24:SER:O	12:AM:28:GLU:HG2	1.91	0.70
12:AM:87:LEU:HB3	12:AM:88:PRO:HD2	1.73	0.70
13:AN:105:GLU:O	13:AN:108:ASP:HB2	1.91	0.70
17:AR:23:HIS:NE2	17:AR:27:ALA:CB	2.55	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:97:LYS:HD2	18:AS:99:ARG:NH1	2.07	0.70
19:AT:34:LYS:HZ1	19:AT:52:VAL:HG12	1.57	0.70
21:AV:21:ALA:O	21:AV:32:PHE:HA	1.90	0.70
26:A2:5:ILE:HG23	26:A2:38:LEU:O	1.91	0.70
27:A3:40:GLN:HA	27:A3:69:PHE:HE1	1.57	0.70
32:A8:19:THR:HB	32:A8:21:LYS:NZ	2.06	0.70
34:BA:449:C:O2	51:BS:42:ARG:HD2	1.92	0.70
34:BA:718:G:N7	34:BA:719:C:N4	2.39	0.70
34:BA:938:A:O2'	34:BA:939:G:H5'	1.89	0.70
34:BA:956:U:H2'	34:BA:957:U:C6	2.26	0.70
34:BA:1034:G:H2'	34:BA:1035:A:H8	1.53	0.70
34:BA:1256:A:O3'	34:BA:1257:U:H4'	1.91	0.70
35:BC:62:A:O2'	35:BC:63:C:O5'	2.08	0.70
37:BE:28:PHE:CE1	37:BE:31:TYR:O	2.45	0.70
39:BG:61:LYS:HG3	39:BG:207:TYR:CE1	2.27	0.70
39:BG:187:ARG:HG3	39:BG:188:LEU:N	2.06	0.70
43:BK:10:LEU:N	43:BK:13:ILE:HD12	2.05	0.70
45:BM:15:THR:HG23	45:BM:16:LEU:CD2	2.21	0.70
48:BP:24:GLY:CA	48:BP:66:LEU:HD22	2.22	0.70
48:BP:24:GLY:O	48:BP:29:ARG:HD2	1.92	0.70
51:BS:20:VAL:HA	51:BS:36:ILE:CG1	2.22	0.70
51:BS:26:ARG:HH21	51:BS:31:LYS:CE	2.02	0.70
2:AA:8:A:H61	2:AA:2895:U:H3	1.39	0.70
2:AA:154:G:H2'	2:AA:155:C:O4'	1.91	0.70
2:AA:197:A:C2	2:AA:198:C:H1'	2.26	0.70
2:AA:233:A:N7	2:AA:234:C:C5	2.60	0.70
2:AA:245:G:N2	2:AA:254:G:C1'	2.33	0.70
2:AA:311:A:H3'	2:AA:312:G:H8	1.56	0.70
2:AA:337:C:OP1	20:AU:24:ARG:HB2	1.91	0.70
2:AA:393:C:O2'	2:AA:394:A:H5'	1.91	0.70
2:AA:499:U:H2'	2:AA:500:G:H5'	1.73	0.70
2:AA:529:A:O2'	2:AA:530:G:H8	1.73	0.70
2:AA:729:G:N1	2:AA:1775:U:C2	2.59	0.70
2:AA:749:C:C2	2:AA:1618:A:C5	2.79	0.70
2:AA:761:A:H8	2:AA:761:A:O5'	1.75	0.70
2:AA:775:G:N2	2:AA:788:A:OP2	2.24	0.70
2:AA:806:C:O2'	2:AA:807:U:H5'	1.90	0.70
2:AA:986:C:C6	2:AA:986:C:C3'	2.71	0.70
2:AA:1059:G:H5'	9:AI:3:ILE:HD12	1.73	0.70
2:AA:1163:G:H5'	26:A2:23:GLU:OE1	1.90	0.70
2:AA:1199:U:C2'	2:AA:1200:C:O5'	2.40	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1264:G:O6	2:AA:1265:A:C6	2.44	0.70
2:AA:1451:C:H2'	2:AA:1457:A:N1	2.07	0.70
2:AA:1567:A:H4'	2:AA:1568:G:C2	2.26	0.70
2:AA:1771:C:O2'	2:AA:1772:G:O5'	2.06	0.70
2:AA:1811:G:H2'	2:AA:1812:A:H8	1.55	0.70
2:AA:1920:C:H2'	2:AA:1921:G:O5'	1.92	0.70
2:AA:1920:C:OP1	34:BA:1517:G:C1'	2.40	0.70
2:AA:2141:G:N2	2:AA:2150:U:O2'	2.25	0.70
2:AA:2305:A:H2	7:AG:72:LYS:HE2	1.57	0.70
2:AA:2378:A:C1'	16:AQ:26:LEU:HD21	2.20	0.70
2:AA:2430:A:H2'	2:AA:2431:U:H5'	1.73	0.70
2:AA:2522:U:O2'	2:AA:2647:U:OP1	2.07	0.70
2:AA:2531:A:H2	2:AA:2658:C:O2	1.75	0.70
2:AA:2745:C:C1'	8:AH:142:GLU:HG3	2.21	0.70
2:AA:2776:A:C1'	2:AA:2778:A:N7	2.55	0.70
2:AA:2853:C:C2'	2:AA:2854:G:H5'	2.21	0.70
3:AC:7:TYR:O	3:AC:11:LEU:HD13	1.92	0.70
3:AC:36:LYS:NZ	3:AC:37:PHE:N	2.36	0.70
4:AD:89:ASN:ND2	4:AD:199:ARG:NE	2.33	0.70
4:AD:213:LYS:O	4:AD:215:LYS:N	2.25	0.70
5:AE:199:ALA:HB1	5:AE:312:ARG:O	1.91	0.70
5:AE:201:VAL:H	5:AE:266:LYS:NZ	1.88	0.70
5:AE:217:TRP:O	5:AE:219:VAL:HG23	1.91	0.70
5:AE:317:PRO:HG2	5:AE:320:GLN:CG	2.10	0.70
7:AG:38:GLU:O	7:AG:41:LEU:HB2	1.90	0.70
8:AH:69:SER:O	8:AH:72:ALA:HB3	1.91	0.70
9:AI:13:LEU:HB3	9:AI:17:GLU:CB	2.22	0.70
9:AI:74:ILE:HG12	9:AI:92:VAL:HG21	1.71	0.70
11:AL:18:ALA:O	11:AL:19:THR:HG23	1.91	0.70
16:AQ:21:HIS:C	16:AQ:23:ARG:N	2.45	0.70
18:AS:36:LEU:HD13	18:AS:48:ALA:CA	2.21	0.70
18:AS:55:ALA:O	18:AS:58:ALA:HB3	1.92	0.70
18:AS:55:ALA:CA	18:AS:107:LEU:HD12	2.18	0.70
20:AU:18:GLU:C	20:AU:21:LYS:HZ3	1.99	0.70
20:AU:27:LEU:HD13	20:AU:31:LEU:HB2	1.74	0.70
21:AV:40:ASP:O	21:AV:41:ARG:C	2.33	0.70
27:A3:36:ILE:CB	27:A3:68:VAL:HG11	2.16	0.70
27:A3:68:VAL:HG12	27:A3:71:ASN:HB2	1.72	0.70
29:A5:12:SER:O	29:A5:13:LYS:C	2.34	0.70
29:A5:34:PRO:CG	29:A5:35:GLN:H	2.05	0.70
30:A6:19:GLY:HA3	30:A6:42:PRO:HB3	1.72	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:A8:52:LYS:C	32:A8:54:GLU:N	2.48	0.70
34:BA:64:G:H4'	34:BA:65:U:C5'	2.21	0.70
34:BA:101:A:N3	34:BA:102:G:C8	2.60	0.70
34:BA:781:A:C2'	34:BA:782:A:C5'	2.57	0.70
34:BA:876:G:C1'	43:BK:11:THR:HG21	2.22	0.70
34:BA:1225:A:H5''	48:BP:103:THR:OG1	1.92	0.70
34:BA:1522:U:H2'	34:BA:1523:G:H8	1.55	0.70
37:BE:109:SER:O	37:BE:112:VAL:N	2.24	0.70
37:BE:115:LEU:HD22	37:BE:149:LEU:CD1	2.21	0.70
37:BE:115:LEU:O	37:BE:118:LEU:HB2	1.92	0.70
39:BG:101:LEU:CD2	39:BG:138:TYR:HB3	2.21	0.70
40:BH:65:ASN:O	40:BH:65:ASN:CG	2.33	0.70
45:BM:66:ARG:HD3	45:BM:68:HIS:NE2	2.06	0.70
49:BQ:23:ARG:CD	49:BQ:30:ALA:HB2	2.20	0.70
49:BQ:25:VAL:HB	49:BQ:38:GLY:O	1.92	0.70
52:BT:48:GLU:OE2	52:BT:50:LYS:HB2	1.91	0.70
53:BU:70:ILE:CG2	53:BU:74:ARG:HE	2.05	0.70
1:AB:52:A:H2'	1:AB:53:A:H8	1.56	0.70
2:AA:34:C:C2'	2:AA:455:C:H41	2.05	0.70
2:AA:64:A:C2'	2:AA:65:C:H5'	2.22	0.70
2:AA:252:G:C2	2:AA:253:C:C6	2.80	0.70
2:AA:294:A:H2'	2:AA:295:G:H5'	1.74	0.70
2:AA:518:G:H4'	18:AS:18:ARG:CZ	2.21	0.70
2:AA:738:G:H2'	2:AA:739:G:H1'	1.74	0.70
2:AA:1023:U:C2'	2:AA:1024:G:H5'	2.22	0.70
2:AA:1083:U:C5'	9:AI:40:ALA:HB2	2.21	0.70
2:AA:1087:G:N2	2:AA:1103:A:C2'	2.55	0.70
2:AA:1128:A:N6	2:AA:2518:A:C6	2.59	0.70
2:AA:1139:G:OP1	12:AM:19:MET:O	2.09	0.70
2:AA:142(A):A:N6	2:AA:1143:A:N6	2.40	0.70
2:AA:1419:A:H1'	2:AA:1578:U:O4	1.92	0.70
2:AA:1469:A:C2	2:AA:1522:G:N2	2.60	0.70
2:AA:1758:G:C6	2:AA:2696:U:H5'	2.26	0.70
2:AA:2259:G:C4	2:AA:2427:C:N4	2.60	0.70
2:AA:2309:A:O4'	2:AA:2309:A:OP2	2.09	0.70
2:AA:2503:A:H4'	2:AA:2504:U:OP1	1.89	0.70
2:AA:2512:C:H5''	5:AE:219:VAL:HG13	1.73	0.70
2:AA:2653:U:C2	2:AA:2654:A:N6	2.60	0.70
5:AE:70:VAL:CG2	5:AE:297:LYS:HA	2.21	0.70
6:AF:140:VAL:HB	6:AF:236:THR:CA	2.21	0.70
8:AH:37:HIS:HE1	8:AH:67:THR:HG21	1.57	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:62:LEU:O	10:AK:66:LYS:HE2	1.91	0.70
10:AK:115:ILE:CG2	10:AK:116:GLU:H	2.03	0.70
12:AM:5:GLU:OE2	12:AM:6:PHE:O	2.10	0.70
15:AP:15:THR:H	15:AP:20:ILE:CD1	2.03	0.70
16:AQ:104:ILE:CG2	16:AQ:109:PRO:HD3	2.15	0.70
20:AU:14:ALA:HB1	20:AU:15:PRO:HD2	1.72	0.70
20:AU:77:VAL:HA	20:AU:89:ARG:HH11	1.54	0.70
20:AU:103:LEU:C	20:AU:105:ASP:N	2.47	0.70
21:AV:123:VAL:HG12	21:AV:161:ALA:H	1.55	0.70
24:A0:84:ALA:HB3	24:A0:85:PRO:HD3	1.72	0.70
25:A1:7:GLY:O	25:A1:9:VAL:N	2.25	0.70
25:A1:50:ARG:HH22	26:A2:74:TYR:HA	1.54	0.70
26:A2:50:ASP:CG	26:A2:53:LYS:HG3	2.16	0.70
26:A2:62:GLU:CB	26:A2:96:LEU:HD21	2.22	0.70
27:A3:27:GLY:HA2	27:A3:60:PHE:CD2	2.27	0.70
34:BA:184:G:C4'	34:BA:224:C:H4'	2.22	0.70
34:BA:279:A:N3	34:BA:281:G:N2	2.40	0.70
34:BA:452:A:N6	34:BA:480:U:C2	2.59	0.70
34:BA:520:A:N7	34:BA:521:G:C8	2.60	0.70
34:BA:590:C:H5''	43:BK:30:ARG:CG	2.21	0.70
34:BA:646:U:C2	34:BA:647:C:C5	2.80	0.70
34:BA:760:G:N1	52:BT:105:ALA:HB2	2.04	0.70
34:BA:1071:C:N4	34:BA:1084:G:N2	2.40	0.70
34:BA:1230:C:H2'	34:BA:1231:G:H5'	1.74	0.70
34:BA:1339:A:O2'	35:BC:40:C:O2	2.08	0.70
35:BB:49:C:N4	35:BB:65:G:N1	2.36	0.70
36:B1:55:U:O2	36:B1:56:A:N7	2.25	0.70
37:BE:97:TRP:CE2	37:BE:173:ALA:HB2	2.26	0.70
38:BF:60:ALA:CB	45:BM:92:THR:O	2.39	0.70
41:BI:45:LEU:CG	41:BI:59:TYR:HD1	2.05	0.70
42:BJ:146:GLU:O	42:BJ:149:ARG:HB2	1.91	0.70
43:BK:104:ARG:HG3	43:BK:138:TRP:CE3	2.27	0.70
48:BP:39:ILE:HG23	48:BP:55:ARG:NH2	2.07	0.70
1:AB:70:C:O2'	1:AB:71:C:H5'	1.91	0.70
2:AA:131:G:N2	2:AA:149:A:C6	2.60	0.70
2:AA:207:A:H2	2:AA:208:C:H1'	1.55	0.70
2:AA:324:A:C8	2:AA:340:A:H1'	2.27	0.70
2:AA:326:G:H2'	2:AA:327:G:C8	2.25	0.70
2:AA:476:G:O4'	2:AA:505:A:H2	1.75	0.70
2:AA:603:A:H61	2:AA:624:C:N4	1.90	0.70
2:AA:648:G:C4	2:AA:649:G:N7	2.60	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:682:G:O3'	31:A7:26:SER:HB2	1.91	0.70
2:AA:876:C:N3	2:AA:901:A:N6	2.40	0.70
2:AA:898:C:H5'	2:AA:899:A:OP2	1.92	0.70
2:AA:973:A:N1	26:A2:81:ARG:CG	2.55	0.70
2:AA:1189:A:C2'	2:AA:1190:G:H5'	2.22	0.70
2:AA:1292:U:H2'	2:AA:1293:C:C6	2.26	0.70
2:AA:1449:A:H5'	2:AA:1528:A:C2	2.26	0.70
2:AA:1710:C:O2'	2:AA:1711:C:H5'	1.92	0.70
2:AA:1884:A:C8	2:AA:1884:A:OP2	2.45	0.70
2:AA:1996:C:P	13:AN:31:ARG:HH12	2.15	0.70
2:AA:2093:G:H4'	10:AK:29:PHE:CE1	2.25	0.70
2:AA:2125:G:H22	2:AA:2174:C:H42	1.27	0.70
2:AA:2210:G:C6	4:AD:148:GLY:HA3	2.26	0.70
2:AA:2250:G:H3'	2:AA:2250:G:H8	1.57	0.70
2:AA:2313:C:OP1	7:AG:51:ARG:CB	2.40	0.70
3:AC:36:LYS:HZ2	3:AC:37:PHE:H	1.37	0.70
4:AD:90:ILE:HG23	4:AD:103:ILE:O	1.92	0.70
4:AD:104:ILE:O	4:AD:106:PRO:HD2	1.92	0.70
4:AD:130:PRO:O	4:AD:134:ILE:HG13	1.91	0.70
5:AE:196:GLY:HA2	5:AE:297:LYS:HZ3	1.57	0.70
5:AE:198:TYR:CD2	5:AE:265:ASN:C	2.69	0.70
5:AE:219:VAL:HG11	5:AE:235:ILE:HD13	1.72	0.70
7:AG:19:GLU:OE1	7:AG:19:GLU:O	2.09	0.70
8:AH:10:ILE:O	8:AH:14:VAL:HB	1.91	0.70
10:AK:31:PHE:CZ	10:AK:36:ALA:CB	2.74	0.70
11:AL:102:ARG:O	11:AL:105:ILE:HB	1.92	0.70
12:AM:54:VAL:HA	12:AM:135:ILE:CG1	2.22	0.70
12:AM:54:VAL:HA	12:AM:135:ILE:HG13	1.72	0.70
12:AM:79:PHE:O	12:AM:80:LYS:C	2.34	0.70
12:AM:84:ARG:CB	12:AM:98:PHE:CE2	2.73	0.70
13:AN:1:MET:H2	13:AN:32:TYR:CB	2.05	0.70
13:AN:5:GLU:HB3	13:AN:20:LEU:HG	1.73	0.70
19:AT:42:GLU:HB2	19:AT:49:VAL:HG23	1.74	0.70
20:AU:102:ASP:O	20:AU:108:ARG:HD3	1.92	0.70
21:AV:57:GLU:C	21:AV:59:GLY:N	2.39	0.70
21:AV:74:ARG:O	21:AV:76:ARG:N	2.25	0.70
21:AV:103:ARG:HG2	21:AV:103:ARG:HH11	1.56	0.70
26:A2:35:LEU:N	26:A2:63:HIS:HE1	1.89	0.70
26:A2:74:TYR:CE2	26:A2:88:GLN:NE2	2.59	0.70
30:A6:16:ALA:C	30:A6:18:THR:N	2.36	0.70
31:A7:22:MET:O	31:A7:28:ARG:HG3	1.92	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:10:A:O2'	34:BA:11:G:H5'	1.92	0.70
34:BA:129(A):G:O6	34:BA:190(D):U:H4'	1.92	0.70
34:BA:287:U:O2'	34:BA:288:A:H5'	1.91	0.70
34:BA:726:C:N4	34:BA:731:G:N1	2.39	0.70
34:BA:1090:U:O2'	34:BA:1091:U:H5'	1.92	0.70
35:BB:11:C:C2	35:BB:12:U:C5	2.79	0.70
35:BB:28:C:O2'	35:BB:29:A:C5'	2.37	0.70
35:BC:21:A:N1	35:BC:48:C:C5	2.60	0.70
35:BC:34:G:H2'	35:BC:35:A:C4'	2.22	0.70
37:BE:25:ASN:CG	37:BE:27:LYS:HB2	2.16	0.70
39:BG:58:LEU:CD1	39:BG:59:ARG:NH1	2.45	0.70
39:BG:120:LEU:CD1	39:BG:125:HIS:HB2	2.21	0.70
40:BH:105:VAL:HG12	40:BH:106:PRO:CD	2.21	0.70
45:BM:27:ALA:HB2	45:BM:85:LEU:CD1	2.20	0.70
47:BO:126:LYS:HZ3	47:BO:128:ALA:CB	1.96	0.70
48:BP:55:ARG:HH21	48:BP:56:LEU:HD21	1.57	0.70
52:BT:59:ILE:CD1	52:BT:72:ARG:O	2.40	0.70
2:AA:186:G:O2'	2:AA:187:G:H5'	1.92	0.70
2:AA:245:G:H1	2:AA:253:C:N4	1.90	0.70
2:AA:280:C:O2'	2:AA:281:G:O5'	2.07	0.70
2:AA:557:U:O3'	12:AM:92:GLN:HB3	1.92	0.70
2:AA:764:A:C6	2:AA:781:A:C2	2.80	0.70
2:AA:976:C:O2'	2:AA:977:G:H5'	1.92	0.70
2:AA:1085:A:OP1	9:AI:35:ALA:N	2.24	0.70
2:AA:1114:G:N2	2:AA:1115:G:C1'	2.54	0.70
2:AA:1203:G:C1'	2:AA:1241:A:N1	2.46	0.70
2:AA:1208:C:N4	2:AA:1209:G:O6	2.25	0.70
2:AA:1358:G:H2'	2:AA:1371:G:N2	2.06	0.70
2:AA:1524:G:C5	2:AA:1525:G:N7	2.60	0.70
2:AA:1529:A:H62	2:AA:1542:G:N2	1.89	0.70
2:AA:1787:A:H2'	2:AA:1788:C:C5	2.27	0.70
2:AA:1798:U:O2'	2:AA:1799:G:H5'	1.92	0.70
2:AA:1912:A:N7	2:AA:1918:A:C2	2.59	0.70
2:AA:1914:C:P	2:AA:1916:A:H62	2.14	0.70
2:AA:1932:A:N3	2:AA:1932:A:C2'	2.54	0.70
2:AA:2057:A:H2'	2:AA:2058:A:O5'	1.92	0.70
2:AA:2097:C:N4	2:AA:2193:G:C6	2.60	0.70
2:AA:2182:G:H2'	2:AA:2183:C:C5	2.27	0.70
2:AA:2484:G:O2'	2:AA:2485:G:H5'	1.92	0.70
2:AA:2556:C:H2'	2:AA:2557:G:O4'	1.92	0.70
2:AA:2595:G:N2	2:AA:2597:G:O5'	2.25	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2617:C:C6	2:AA:2617:C:OP2	2.45	0.70
4:AD:71:ASP:CG	4:AD:118:GLY:HA3	2.15	0.70
6:AF:3:ALA:HB2	6:AF:18:LEU:HD23	1.72	0.70
6:AF:23:GLU:O	6:AF:24:THR:O	2.09	0.70
6:AF:55:ARG:C	6:AF:79:ARG:NH2	2.47	0.70
6:AF:237:GLU:O	6:AF:240:LEU:N	2.25	0.70
8:AH:65:GLY:O	8:AH:68:ARG:HB2	1.91	0.70
9:AI:73:VAL:HG11	9:AI:123:ALA:HB2	1.74	0.70
9:AJ:9:ALA:O	9:AJ:13:LEU:HG	1.92	0.70
10:AK:39:ALA:O	10:AK:40:THR:O	2.09	0.70
11:AL:73:PRO:CB	11:AL:78:LEU:HD21	2.22	0.70
15:AP:54:VAL:HG12	15:AP:56:ILE:CD1	2.21	0.70
15:AP:82:LYS:O	15:AP:123:ILE:O	2.10	0.70
20:AU:99:THR:HG22	20:AU:100:ASP:N	2.05	0.70
22:AW:6:GLN:O	22:AW:9:ARG:N	2.25	0.70
25:A1:42:ALA:O	25:A1:45:TYR:HB2	1.90	0.70
25:A1:63:GLN:HA	25:A1:66:ASN:ND2	2.07	0.70
28:A4:7:PRO:HG2	28:A4:60:ASN:HB3	1.74	0.70
30:A6:2:ALA:N	30:A6:11:LYS:HD2	2.07	0.70
30:A6:8:ILE:O	30:A6:9:ILE:HG12	1.91	0.70
30:A6:40:TYR:O	30:A6:47:HIS:CA	2.37	0.70
34:BA:284:G:H2'	34:BA:285:G:C8	2.25	0.70
34:BA:323:U:H5''	55:BW:26:ASN:OD1	1.92	0.70
34:BA:340:U:C2	34:BA:341:C:C5	2.80	0.70
34:BA:520:A:H3'	34:BA:521:G:C5'	2.16	0.70
34:BA:573:A:H3'	34:BA:573:A:OP2	1.91	0.70
34:BA:597:G:N1	34:BA:643:C:N4	2.40	0.70
34:BA:622:A:C8	34:BA:623:C:C5	2.80	0.70
34:BA:874:G:N2	34:BA:875:C:C1'	2.54	0.70
34:BA:970:C:N3	48:BP:126:LYS:HD3	2.07	0.70
34:BA:1057:G:H2'	34:BA:1058:G:H8	1.56	0.70
34:BA:1104:G:HO2'	34:BA:1105:A:H5'	1.56	0.70
35:BB:9:A:N3	35:BB:45:G:C5	2.60	0.70
37:BE:16:HIS:C	37:BE:204:ASN:HB2	2.17	0.70
37:BE:219:VAL:O	37:BE:223:ILE:HG13	1.91	0.70
37:BE:234:PRO:O	37:BE:238:LEU:HD21	1.91	0.70
38:BF:73:PRO:HG3	38:BF:105:GLU:CD	2.16	0.70
38:BF:95:THR:HB	38:BF:97:LYS:HG2	1.74	0.70
39:BG:102:ASP:HB3	39:BG:121:VAL:HG21	1.73	0.70
39:BG:173:TRP:HD1	39:BG:185:PHE:CE2	2.09	0.70
41:BI:50:TYR:CE2	41:BI:52:ILE:HD11	2.24	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:16:ASP:OD2	48:BP:17:VAL:N	2.24	0.70
50:BR:39:LEU:O	50:BR:42:HIS:HB3	1.92	0.70
50:BR:54:ARG:O	50:BR:57:LEU:HB2	1.92	0.70
53:BU:46:GLU:C	53:BU:48:GLY:N	2.47	0.70
1:AB:12:C:H5	27:A3:53:MET:C	1.98	0.69
1:AB:35:U:C5	1:AB:36:C:H5	2.09	0.69
2:AA:29:U:H5'	25:A1:11:ARG:HH22	1.57	0.69
2:AA:68:G:C4	2:AA:69:C:C5	2.80	0.69
2:AA:92:G:H2'	2:AA:93:C:H6	1.57	0.69
2:AA:226:G:N2	2:AA:227:A:N3	2.39	0.69
2:AA:265:A:N1	2:AA:281:G:OP1	2.25	0.69
2:AA:595:C:N3	2:AA:662:G:N2	2.38	0.69
2:AA:1519:G:C2	2:AA:1520:U:H1'	2.27	0.69
2:AA:1528:A:N6	2:AA:1543:A:N7	2.40	0.69
2:AA:1610:A:H5''	2:AA:1611:C:OP2	1.92	0.69
2:AA:1926:U:C4	2:AA:1928:A:OP2	2.45	0.69
2:AA:1938:A:O2'	2:AA:1939:U:P	2.50	0.69
2:AA:1944:U:H1'	2:AA:1955:U:O4'	1.92	0.69
2:AA:1996:C:C5'	2:AA:1996:C:H6	2.04	0.69
2:AA:2188:C:H2'	2:AA:2189:U:C6	2.26	0.69
2:AA:2436:G:O2'	2:AA:2437:U:H5'	1.92	0.69
2:AA:2507:C:N4	2:AA:2582:G:H1	1.88	0.69
2:AA:2577:A:C2	29:A5:5:PRO:HB3	2.24	0.69
2:AA:2695:C:H2'	2:AA:2696:U:C5	2.26	0.69
2:AA:2872:G:N2	2:AA:2873:A:C6	2.60	0.69
4:AD:66:PHE:CE2	4:AD:150:GLY:HA3	2.26	0.69
4:AD:142:ASN:ND2	4:AD:190:THR:OG1	2.25	0.69
5:AE:175:ASP:OD1	5:AE:178:LEU:HD11	1.92	0.69
5:AE:193:PHE:HE2	5:AE:199:ALA:CB	2.05	0.69
6:AF:11:ASN:HD21	6:AF:160:LEU:CD2	2.05	0.69
8:AH:17:THR:HB	8:AH:24:THR:OG1	1.91	0.69
8:AH:108:TYR:O	8:AH:109:SER:HB3	1.90	0.69
9:AI:46:GLY:N	9:AJ:19:ALA:HB1	2.07	0.69
10:AK:29:PHE:CD2	10:AK:30:LEU:CG	2.75	0.69
10:AK:29:PHE:HD2	10:AK:30:LEU:CD2	2.04	0.69
11:AL:96:ILE:O	11:AL:97:VAL:HG13	1.91	0.69
11:AL:116:LEU:HD13	11:AL:117:ASN:N	2.06	0.69
12:AM:24:SER:HB3	12:AM:86:MET:CE	2.22	0.69
12:AM:46:ILE:N	12:AM:131:THR:OG1	2.25	0.69
12:AM:84:ARG:CA	12:AM:98:PHE:CE2	2.75	0.69
12:AM:94:GLY:O	12:AM:98:PHE:CD1	2.44	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:94:ARG:NH2	14:AO:118:LEU:C	2.50	0.69
18:AS:34:ASN:O	18:AS:37:ARG:HB3	1.92	0.69
18:AS:73:ALA:CB	18:AS:106:ILE:HD12	2.20	0.69
19:AT:32:ALA:HA	19:AT:36:GLU:HG3	1.74	0.69
20:AU:47:THR:CG2	20:AU:100:ASP:HB2	2.21	0.69
21:AV:103:ARG:HD3	21:AV:103:ARG:H	1.54	0.69
25:A1:37:GLN:O	25:A1:38:THR:C	2.35	0.69
25:A1:43:ALA:O	25:A1:44:THR:C	2.35	0.69
25:A1:50:ARG:NH2	26:A2:74:TYR:HD2	1.88	0.69
34:BA:197:A:O2'	34:BA:198:G:O4'	2.06	0.69
34:BA:504:C:N4	34:BA:541:G:H1	1.89	0.69
34:BA:671:G:OP1	41:BI:77:ARG:NH2	2.25	0.69
34:BA:770:C:O2'	34:BA:771:G:H5'	1.91	0.69
34:BA:789:U:H2'	34:BA:790:A:H3'	1.72	0.69
34:BA:999:C:N3	34:BA:1042:G:O6	2.25	0.69
34:BA:1298:C:H3'	42:BJ:114:ARG:HH12	1.55	0.69
34:BA:1305:G:H21	34:BA:1331:G:H2'	1.54	0.69
35:BC:63:C:H2'	35:BC:64:A:H8	1.56	0.69
40:BH:31:LEU:HD12	40:BH:129:ILE:HG12	1.74	0.69
43:BK:89:PRO:HA	43:BK:92:ARG:NE	2.06	0.69
43:BK:104:ARG:NH2	43:BK:138:TRP:CH2	2.59	0.69
44:BL:78:LYS:O	44:BL:81:ILE:HB	1.92	0.69
46:BN:27:ASN:HA	46:BN:55:LYS:O	1.92	0.69
46:BN:72:ALA:O	46:BN:77:MET:HB2	1.91	0.69
47:BO:38:THR:HG22	47:BO:57:LYS:CB	2.22	0.69
49:BQ:40:CYS:C	49:BQ:42:ILE:N	2.46	0.69
49:BQ:55:GLY:O	49:BQ:56:VAL:C	2.34	0.69
1:AB:6:C:H2'	1:AB:7:G:C8	2.26	0.69
2:AA:48:G:H8	2:AA:48:G:O5'	1.73	0.69
2:AA:242:G:H2'	2:AA:254:G:N1	2.07	0.69
2:AA:247:G:C5	2:AA:249:C:O2	2.45	0.69
2:AA:248:G:N2	2:AA:2431:U:O4'	2.24	0.69
2:AA:281:G:O5'	2:AA:281:G:C8	2.45	0.69
2:AA:296:C:N3	2:AA:344:G:C2	2.58	0.69
2:AA:522:G:H2'	2:AA:523:C:O4'	1.91	0.69
2:AA:526:A:H4'	2:AA:527:C:OP1	1.91	0.69
2:AA:530:G:N2	2:AA:2021:C:H5''	2.03	0.69
2:AA:574:C:H4'	2:AA:575:A:C5'	2.21	0.69
2:AA:585:G:C2'	2:AA:586:A:C8	2.75	0.69
2:AA:775:G:O2'	2:AA:794:G:C8	2.45	0.69
2:AA:1084:A:O5'	9:AI:38:ALA:CA	2.39	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1086:A:H3'	2:AA:1087:G:H5'	1.73	0.69
2:AA:1840:G:N2	2:AA:1902:C:N3	2.40	0.69
2:AA:1905:C:H2'	2:AA:1930:G:C6	2.26	0.69
2:AA:1916:A:P	2:AA:1916:A:H8	2.15	0.69
2:AA:2274:A:N7	2:AA:2276:G:C8	2.59	0.69
2:AA:2415:G:N2	2:AA:2416:C:C1'	2.55	0.69
2:AA:2542:A:O4'	2:AA:2542:A:OP2	2.09	0.69
2:AA:2575:C:O2	5:AE:237:ASN:ND2	2.25	0.69
2:AA:2579:C:H2'	2:AA:2580:U:C5'	2.22	0.69
2:AA:2581:G:C6	2:AA:2610:C:C2'	2.72	0.69
2:AA:2805:G:H2'	2:AA:2807:G:O4'	1.92	0.69
4:AD:140:VAL:CG2	4:AD:191:VAL:HG12	2.22	0.69
5:AE:199:ALA:CB	5:AE:312:ARG:O	2.40	0.69
6:AF:55:ARG:CA	6:AF:79:ARG:HH21	2.05	0.69
6:AF:83:ALA:HB2	6:AF:87:ARG:NH2	2.06	0.69
6:AF:195:VAL:O	6:AF:236:THR:HG23	1.91	0.69
11:AL:110:LYS:O	11:AL:113:MET:HG2	1.93	0.69
16:AQ:32:PRO:CD	16:AQ:100:ALA:HA	2.22	0.69
18:AS:69:LEU:HD23	18:AS:109:GLU:HB3	1.71	0.69
18:AS:97:LYS:CB	18:AS:99:ARG:HD3	2.22	0.69
21:AV:100:THR:HG22	21:AV:137:ASP:OD1	1.92	0.69
22:AW:45:ARG:NH2	22:AW:49:LEU:HG	2.06	0.69
25:A1:98:ILE:C	25:A1:100:ALA:N	2.47	0.69
27:A3:24:LYS:HG2	27:A3:56:ASP:OD1	1.92	0.69
31:A7:21:ARG:HB3	31:A7:31:LEU:HD11	1.74	0.69
33:A9:2:LYS:N	33:A9:2:LYS:NZ	2.33	0.69
33:A9:7:VAL:HB	33:A9:36:GLN:CD	2.17	0.69
34:BA:43:C:C2	34:BA:44:G:C8	2.80	0.69
34:BA:250:A:H4'	34:BA:251:G:O5'	1.92	0.69
34:BA:607:A:H2'	34:BA:608:A:H5'	1.72	0.69
34:BA:796:C:OP1	46:BN:123:LYS:HD3	1.91	0.69
34:BA:893:C:H2'	34:BA:894:G:H8	1.55	0.69
34:BA:944:G:H3'	34:BA:945:G:H5'	1.75	0.69
34:BA:1216:G:H2'	34:BA:1217:C:H6	1.52	0.69
34:BA:1228:C:H2'	34:BA:1228:C:O2	1.91	0.69
35:BB:53:G:O2'	35:BB:54:U:C5'	2.40	0.69
35:BC:70:C:H2'	35:BC:71:G:C8	2.16	0.69
39:BG:140:VAL:CB	39:BG:185:PHE:HD1	2.03	0.69
39:BG:170:VAL:CG2	39:BG:176:LEU:HB3	2.21	0.69
40:BH:59:GLY:C	40:BH:63:ARG:NH2	2.49	0.69
40:BH:92:LYS:O	40:BH:118:ILE:HG22	1.91	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:104:ALA:N	40:BH:107:ARG:HH12	1.90	0.69
41:BI:4:TYR:OH	41:BI:67:MET:HE2	1.92	0.69
42:BJ:9:VAL:HG21	42:BJ:94:ARG:HD3	1.74	0.69
42:BJ:26:PHE:HE1	42:BJ:105:VAL:HG22	1.57	0.69
47:BO:28:LYS:HE3	47:BO:33:ARG:HH12	1.57	0.69
47:BO:45:PRO:HD3	47:BO:51:ALA:O	1.91	0.69
48:BP:19:LEU:HD12	48:BP:20:THR:N	2.07	0.69
50:BR:33:THR:HG23	50:BR:63:ARG:HH12	1.56	0.69
50:BR:70:LEU:C	50:BR:70:LEU:CD1	2.63	0.69
53:BU:53:ARG:NH1	53:BU:59:SER:C	2.50	0.69
2:AA:71:A:H5''	2:AA:72:U:H3'	1.73	0.69
2:AA:609:A:N1	2:AA:619:G:N3	2.40	0.69
2:AA:635:C:O2'	2:AA:636:G:H5'	1.92	0.69
2:AA:774:A:O2'	2:AA:775:G:C8	2.44	0.69
2:AA:890:A:H4'	2:AA:892:G:H5'	1.73	0.69
2:AA:984:A:H5''	2:AA:985:C:H41	1.58	0.69
2:AA:1065:U:C2'	2:AA:1066:U:H5''	2.22	0.69
2:AA:1141:U:C6	2:AA:1141:U:H5'	2.27	0.69
2:AA:1229:G:H2'	2:AA:1230:C:O4'	1.92	0.69
2:AA:1717:G:N1	2:AA:1742:C:C2	2.58	0.69
2:AA:1956:U:H5''	2:AA:1957:C:OP2	1.91	0.69
2:AA:2212:A:N3	2:AA:2213:U:H5''	2.07	0.69
2:AA:2286:A:H5'	2:AA:2287:A:C5'	2.23	0.69
2:AA:2492:U:H2'	2:AA:2493:U:O5'	1.91	0.69
2:AA:2603:G:H8	2:AA:2603:G:H5'	1.56	0.69
5:AE:45:LYS:NZ	5:AE:301:PRO:C	2.46	0.69
5:AE:217:TRP:CE2	5:AE:251:PRO:HG3	2.26	0.69
6:AF:151:GLN:OE1	6:AF:154:VAL:HG21	1.92	0.69
8:AH:10:ILE:HG23	8:AH:14:VAL:HG11	1.73	0.69
9:AI:39:VAL:HG22	9:AJ:39:VAL:HG13	1.74	0.69
9:AI:106:VAL:HG11	9:AI:114:ILE:HD11	1.73	0.69
14:AO:76:LEU:CD1	14:AO:96:VAL:HG12	2.21	0.69
15:AP:152:SER:OG	15:AP:153:PRO:HD2	1.91	0.69
16:AQ:34:LEU:HD11	16:AQ:102:LEU:HA	1.73	0.69
17:AR:6:CYS:SG	17:AR:31:PHE:CD2	2.85	0.69
18:AS:75:TYR:CE1	18:AS:104:THR:OG1	2.45	0.69
18:AS:82:LEU:CD2	18:AS:98:LYS:HB2	2.22	0.69
20:AU:101:LEU:HD21	20:AU:112:LEU:HD11	1.74	0.69
21:AV:159:THR:HG23	21:AV:160:LEU:H	1.56	0.69
28:A4:33:VAL:CG1	28:A4:34:ASP:N	2.55	0.69
31:A7:22:MET:HA	31:A7:28:ARG:HG2	1.73	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:29:G:C6	34:BA:555:C:N4	2.61	0.69
34:BA:121:C:N4	34:BA:236:G:C8	2.58	0.69
34:BA:272:C:H2'	34:BA:273:A:H8	1.57	0.69
34:BA:280:C:H1'	52:BT:38:ARG:CD	2.22	0.69
34:BA:421:U:C2	38:BF:127:ARG:NH2	2.61	0.69
34:BA:499:A:H4'	34:BA:500:G:OP1	1.91	0.69
34:BA:658:G:H2'	34:BA:659:U:O4'	1.91	0.69
34:BA:877:C:O2	34:BA:877:C:H2'	1.92	0.69
35:BB:26:G:N2	35:BB:27:C:O4'	2.24	0.69
35:BB:39:U:H6	35:BB:39:U:O5'	1.75	0.69
36:B1:25:U:O4	36:B1:27:G:H3'	1.91	0.69
37:BE:20:GLU:HG3	37:BE:189:ASP:HB2	1.74	0.69
41:BI:44:GLY:O	41:BI:59:TYR:HA	1.92	0.69
42:BJ:47:CYS:HA	42:BJ:50:ILE:CD1	2.21	0.69
44:BL:69:GLY:C	44:BL:73:GLN:OE1	2.36	0.69
46:BN:85:ARG:HE	46:BN:111:ASP:CB	2.04	0.69
48:BP:101:GLN:OE1	48:BP:101:GLN:N	2.21	0.69
2:AA:134:C:C2	2:AA:135:G:C8	2.80	0.69
2:AA:153:C:H42	2:AA:173:G:H1	1.38	0.69
2:AA:370:G:C2	2:AA:424:G:N7	2.60	0.69
2:AA:464:U:C6	2:AA:464:U:O5'	2.45	0.69
2:AA:782:A:C2	4:AD:229:MET:SD	2.86	0.69
2:AA:792:G:O2'	2:AA:793:A:P	2.50	0.69
2:AA:1060:U:OP1	11:AL:75:ALA:N	2.25	0.69
2:AA:1160:G:C5	2:AA:1161:C:C4	2.80	0.69
2:AA:1171:G:H2'	2:AA:1173:G:H4'	1.73	0.69
2:AA:1309:G:O2'	2:AA:1310:G:H5'	1.91	0.69
2:AA:1389:G:C2	2:AA:1390:U:C2	2.80	0.69
2:AA:1431:U:H2'	2:AA:1432:C:O4'	1.92	0.69
2:AA:1472:A:C2	2:AA:1519:G:N1	2.60	0.69
2:AA:1534:G:N3	2:AA:1534:G:C2'	2.55	0.69
2:AA:1604:C:O2'	2:AA:1605:C:C5'	2.34	0.69
2:AA:1726:G:C2	2:AA:1727:U:O4'	2.46	0.69
2:AA:1809:A:H5''	2:AA:1810:A:C2	2.27	0.69
2:AA:1818:U:H3'	4:AD:155:ARG:HG3	1.74	0.69
2:AA:1941:C:H2'	2:AA:1942:C:O5'	1.93	0.69
2:AA:2093:G:H1	2:AA:2196:C:H42	1.39	0.69
5:AE:44:TYR:CD2	5:AE:307:LEU:C	2.70	0.69
5:AE:74:GLU:C	5:AE:75:THR:OG1	2.35	0.69
6:AF:3:ALA:HB3	6:AF:16:VAL:C	2.16	0.69
6:AF:37:ALA:CB	6:AF:102:LEU:HD12	2.20	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:90:HIS:N	6:AF:91:PRO:CD	2.54	0.69
6:AF:232:LEU:C	6:AF:233:THR:HG22	2.16	0.69
8:AH:15:THR:CG2	8:AH:26:LYS:O	2.38	0.69
8:AH:102:LEU:CD2	8:AH:114:ILE:HB	2.22	0.69
9:AJ:115:LYS:HD3	9:AJ:127:LEU:HD22	1.72	0.69
12:AM:63:ILE:HG21	12:AM:71:TYR:OH	1.91	0.69
13:AN:112:MET:HA	13:AN:115:ILE:CD1	2.21	0.69
15:AP:11:LYS:HB3	15:AP:12:PRO:CD	2.22	0.69
15:AP:64:ALA:O	15:AP:67:ALA:CB	2.39	0.69
16:AQ:49:THR:HG23	16:AQ:52:PRO:HD2	1.75	0.69
21:AV:39:PHE:HA	21:AV:43:PHE:CE2	2.27	0.69
21:AV:149:ALA:O	21:AV:150:GLY:C	2.35	0.69
26:A2:50:ASP:O	26:A2:53:LYS:HB2	1.91	0.69
27:A3:46:LYS:HZ1	27:A3:60:PHE:C	2.01	0.69
29:A5:6:VAL:O	29:A5:6:VAL:HG12	1.91	0.69
31:A7:44:VAL:O	31:A7:45:SER:C	2.34	0.69
32:A8:41:ILE:O	32:A8:43:GLY:N	2.25	0.69
34:BA:21:G:N2	34:BA:915:A:N6	2.40	0.69
34:BA:264:U:H2'	34:BA:265:G:H5'	1.73	0.69
34:BA:475:G:H2'	34:BA:476:G:H8	1.54	0.69
34:BA:1326:C:H2'	34:BA:1327:C:C6	2.27	0.69
34:BA:1345:U:O2	34:BA:1377:A:N6	2.25	0.69
35:BB:41:U:H2'	35:BB:42:G:C1'	2.23	0.69
37:BE:28:PHE:HE1	37:BE:31:TYR:HB3	1.57	0.69
37:BE:34:ALA:HB1	37:BE:36:ARG:HH11	1.57	0.69
37:BE:167:PRO:HG3	37:BE:192:SER:HB3	1.75	0.69
38:BF:84:ILE:CA	38:BF:87:LEU:HD12	2.15	0.69
39:BG:120:LEU:CG	39:BG:125:HIS:HB2	2.22	0.69
43:BK:47:GLY:C	43:BK:61:VAL:HG13	2.17	0.69
43:BK:97:VAL:HG13	43:BK:98:LYS:HZ2	1.56	0.69
47:BO:53:ARG:NH1	47:BO:53:ARG:HG2	2.06	0.69
47:BO:101:VAL:O	47:BO:104:VAL:CG2	2.40	0.69
49:BQ:24:CYS:HB3	49:BQ:28:GLY:C	2.16	0.69
51:BS:5:ARG:NH1	51:BS:24:ALA:HA	2.05	0.69
53:BU:59:SER:H	53:BU:62:GLU:HB2	1.57	0.69
2:AA:72:U:H1'	22:AW:54:ALA:HA	1.75	0.69
2:AA:206:U:O2'	2:AA:207:A:H5'	1.92	0.69
2:AA:248:G:N2	2:AA:2431:U:C4'	2.54	0.69
2:AA:360:G:O2'	2:AA:361:G:H5'	1.93	0.69
2:AA:360:G:H2'	2:AA:361:G:O4'	1.92	0.69
2:AA:583:G:H1	2:AA:1257:C:H42	1.38	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:586:A:N1	2:AA:810:U:H5'	2.07	0.69
2:AA:666:G:O2'	2:AA:667:U:O5'	2.10	0.69
2:AA:673:C:H5'	6:AF:81:PRO:HB2	1.74	0.69
2:AA:783:A:H2'	2:AA:784:A:C5'	2.22	0.69
2:AA:912:C:H2'	2:AA:913:U:H5'	1.74	0.69
2:AA:928:G:H2'	2:AA:929:G:N7	2.06	0.69
2:AA:1022:G:H5''	12:AM:56:LYS:NZ	2.08	0.69
2:AA:1128:A:C6	2:AA:2518:A:N6	2.57	0.69
2:AA:1241:A:O2'	2:AA:1242:A:N7	2.25	0.69
2:AA:1245:G:C2'	2:AA:1246:A:H5'	2.21	0.69
2:AA:1339:G:N2	2:AA:1603:A:H8	1.90	0.69
2:AA:1410:G:H2'	2:AA:1411:C:C6	2.27	0.69
2:AA:1473:G:H2'	2:AA:1474:C:H6	1.56	0.69
2:AA:1543:A:H5'	2:AA:1544:C:H5	1.56	0.69
2:AA:1690:A:C6	2:AA:1697:G:N2	2.58	0.69
2:AA:1742:C:C4	2:AA:1743:G:N7	2.60	0.69
2:AA:1785:A:C8	2:AA:1785:A:H3'	2.27	0.69
2:AA:1827:C:O2	2:AA:1828:G:O4'	2.09	0.69
2:AA:1879:C:H2'	2:AA:1880:C:H6	1.55	0.69
2:AA:1957:C:O2'	2:AA:1985:G:H1'	1.92	0.69
2:AA:2042:A:O2'	2:AA:2043:C:C5'	2.39	0.69
2:AA:2123:G:H22	3:AC:217:THR:HG23	1.58	0.69
2:AA:2194:G:C6	2:AA:2195:C:N4	2.60	0.69
2:AA:2290:G:H1	2:AA:2342:C:N4	1.90	0.69
2:AA:2348:U:C4	2:AA:2382:G:N2	2.60	0.69
2:AA:2507:C:C2	2:AA:2583:G:N2	2.61	0.69
2:AA:2893:G:H2'	2:AA:2893:G:N3	2.06	0.69
3:AC:95:GLY:HA3	3:AC:99:ILE:HG13	1.74	0.69
8:AH:51:VAL:HG22	8:AH:68:ARG:CG	2.21	0.69
8:AH:114:ILE:HG13	8:AH:147:ILE:CD1	2.20	0.69
9:AI:15:VAL:HG21	9:AI:49:ALA:HA	1.74	0.69
9:AJ:60:ASP:N	9:AJ:128:LYS:HE3	2.08	0.69
10:AK:81:ALA:O	10:AK:147:GLU:HA	1.93	0.69
12:AM:44:ALA:CB	12:AM:132:LEU:HD22	2.23	0.69
15:AP:94:ARG:CG	15:AP:107:LYS:O	2.37	0.69
18:AS:18:ARG:HG3	18:AS:76:VAL:CG1	2.22	0.69
18:AS:19:LEU:HD13	29:A5:25:LEU:CD2	2.22	0.69
18:AS:72:LYS:HB3	18:AS:106:ILE:CG2	2.22	0.69
20:AU:73:HIS:HE1	20:AU:90:PRO:HA	1.56	0.69
21:AV:127:PRO:O	21:AV:128:ARG:C	2.35	0.69
25:A1:94:VAL:HG12	25:A1:98:ILE:HD13	1.74	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:39:PHE:H	26:A2:58:ALA:HB2	1.55	0.69
28:A4:6:HIS:HB2	28:A4:56:VAL:HG22	1.75	0.69
34:BA:25:C:C4	34:BA:558:G:N2	2.60	0.69
34:BA:36:C:H5''	47:BO:122:THR:O	1.92	0.69
34:BA:372:C:O2	34:BA:387:U:O4	2.10	0.69
34:BA:421:U:C5'	34:BA:422:C:H5	2.04	0.69
34:BA:568:G:C6	34:BA:569:C:N4	2.60	0.69
34:BA:663:A:C5'	34:BA:836:G:OP1	2.32	0.69
34:BA:758:G:H4'	34:BA:880:C:H4'	1.73	0.69
34:BA:806:C:H42	34:BA:807:A:N6	1.90	0.69
34:BA:1002:G:C2	34:BA:1003:G:H1'	2.28	0.69
34:BA:1347:G:N2	34:BA:1373:G:C4	2.61	0.69
34:BA:1353:G:OP1	56:BX:10:ARG:NH2	2.24	0.69
34:BA:1378:C:O2	34:BA:1378:C:C2'	2.40	0.69
34:BA:1401:G:O2'	34:BA:1402:C:H5'	1.91	0.69
34:BA:1421:G:O2'	34:BA:1422:G:H5'	1.92	0.69
34:BA:1535:C:N3	36:B1:55:U:N3	2.41	0.69
35:BB:18:G:C2'	35:BB:19:G:O5'	2.40	0.69
35:BB:22:G:N3	35:BB:23:A:C8	2.60	0.69
35:BC:72:C:O2'	35:BC:73:A:O4'	2.09	0.69
37:BE:25:ASN:HD21	37:BE:27:LYS:CB	2.05	0.69
39:BG:98:GLU:HA	39:BG:103:ASN:ND2	2.07	0.69
39:BG:128:VAL:O	39:BG:130:GLY:N	2.25	0.69
40:BH:96:PRO:O	40:BH:97:GLY:C	2.36	0.69
41:BI:29:ALA:O	41:BI:30:LEU:C	2.35	0.69
41:BI:36:ARG:HB3	41:BI:36:ARG:HH11	1.55	0.69
43:BK:25:ASP:C	43:BK:58:TYR:HE2	1.99	0.69
43:BK:120:THR:N	43:BK:123:GLU:CD	2.51	0.69
44:BL:16:ARG:HD3	44:BL:64:THR:CB	2.22	0.69
48:BP:108:ARG:NH1	48:BP:111:LYS:HB2	2.08	0.69
50:BR:36:ILE:HG13	50:BR:59:MET:HE1	1.72	0.69
52:BT:45:HIS:CE1	52:BT:47:PRO:HG3	2.28	0.69
1:AB:40:U:H3'	1:AB:41:U:H5'	1.75	0.69
2:AA:6:A:C5'	12:AM:4:ALA:N	2.55	0.69
2:AA:74:A:O2'	2:AA:75:G:OP2	2.10	0.69
2:AA:239:U:O2'	2:AA:240:G:C5'	2.40	0.69
2:AA:242:G:C2'	2:AA:243:U:OP2	2.41	0.69
2:AA:269:U:H5	2:AA:270(Z):U:P	2.15	0.69
2:AA:613:U:O5'	2:AA:615:G:H1'	1.93	0.69
2:AA:713:G:C2	2:AA:714:U:C6	2.80	0.69
2:AA:780:G:N1	4:AD:233:ASP:OD1	2.23	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:809:G:O4'	2:AA:1254:A:H1'	1.92	0.69
2:AA:815:C:H2'	2:AA:816:C:C6	2.27	0.69
2:AA:818:G:H21	2:AA:1189:A:H62	0.76	0.69
2:AA:896:A:H3'	2:AA:896:A:N3	2.07	0.69
2:AA:965:C:H2'	2:AA:966:G:O4'	1.93	0.69
2:AA:1177:A:H2'	2:AA:1178:C:C6	2.27	0.69
2:AA:1239:G:C2'	2:AA:1240:U:H6	2.06	0.69
2:AA:1280:G:O2'	2:AA:1281:G:H5'	1.91	0.69
2:AA:1375:C:O2'	2:AA:1376:C:H5'	1.93	0.69
2:AA:1563:G:N3	2:AA:1564:C:C6	2.61	0.69
2:AA:1769:G:C2	2:AA:1984:G:C5	2.81	0.69
2:AA:1797:C:H6	2:AA:1797:C:O5'	1.75	0.69
2:AA:2131:G:H3'	3:AC:5:LYS:O	1.92	0.69
2:AA:2281:C:O2'	2:AA:2282:G:O5'	2.08	0.69
2:AA:2325:G:H2'	2:AA:2326:C:H6	1.56	0.69
2:AA:2352:A:H2'	2:AA:2353:G:O4'	1.91	0.69
2:AA:2386:C:C1'	27:A3:39:ARG:HH21	2.06	0.69
2:AA:2675:A:H5'	13:AN:30:ARG:H	1.56	0.69
2:AA:2830:G:N3	2:AA:2883:A:C2	2.61	0.69
3:AC:103:ILE:HG22	3:AC:130:ILE:CG2	2.23	0.69
4:AD:140:VAL:HG22	4:AD:191:VAL:CG1	2.23	0.69
4:AD:160:SER:O	4:AD:176:ALA:CB	2.39	0.69
5:AE:205:THR:HG23	5:AE:259:HIS:HB2	1.72	0.69
8:AH:100:LYS:C	8:AH:101:LYS:HD2	2.17	0.69
9:AJ:15:VAL:HG21	9:AJ:49:ALA:HA	1.73	0.69
10:AK:3:VAL:O	10:AK:3:VAL:HG12	1.92	0.69
13:AN:86:ILE:CG2	13:AN:94:ARG:HG3	2.18	0.69
13:AN:107:ARG:CG	13:AN:115:ILE:HD13	2.23	0.69
16:AQ:120:GLU:HA	16:AQ:123:ILE:CG1	2.21	0.69
21:AV:54:ILE:CG2	21:AV:56:VAL:HG23	2.23	0.69
25:A1:99:ALA:HA	25:A1:106:PHE:CB	2.23	0.69
26:A2:39:PHE:C	26:A2:40:VAL:HG22	2.18	0.69
34:BA:129(A):G:O2'	34:BA:130:A:OP2	2.08	0.69
34:BA:332:G:OP2	55:BW:10:LEU:HD23	1.93	0.69
34:BA:440:A:C8	34:BA:440:A:OP2	2.45	0.69
34:BA:476:G:O2'	34:BA:477:G:H5'	1.93	0.69
34:BA:558:G:H5''	34:BA:559:A:H5''	1.74	0.69
34:BA:641:U:O2'	34:BA:642:A:N7	2.20	0.69
34:BA:761:G:H1'	52:BT:103:GLY:O	1.92	0.69
34:BA:889:A:N3	34:BA:891:U:N3	2.39	0.69
34:BA:909:A:C2	34:BA:910:C:H1'	2.27	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:979:C:H2'	34:BA:980:C:H5'	1.75	0.69
34:BA:988:G:H2'	34:BA:989:C:O4'	1.92	0.69
34:BA:1046:A:N3	34:BA:1046:A:C2'	2.52	0.69
34:BA:1454:G:C2'	34:BA:1455:G:H8	2.06	0.69
34:BA:1514:C:H2'	34:BA:1515:C:C6	2.27	0.69
37:BE:95:GLN:HB2	37:BE:148:TYR:HB3	1.75	0.69
38:BF:54:ARG:HG2	38:BF:55:VAL:N	2.08	0.69
38:BF:76:VAL:HG11	38:BF:103:VAL:CG1	2.22	0.69
38:BF:133:ALA:O	38:BF:136:GLN:HB2	1.93	0.69
39:BG:54:TYR:O	39:BG:55:ALA:C	2.35	0.69
41:BI:45:LEU:HG	41:BI:59:TYR:HD1	1.57	0.69
43:BK:6:ILE:HG21	43:BK:85:ARG:NH1	2.08	0.69
43:BK:10:LEU:O	43:BK:14:ARG:NH1	2.25	0.69
43:BK:48:TYR:HB2	43:BK:61:VAL:HG22	1.73	0.69
46:BN:64:ALA:O	46:BN:65:ALA:C	2.34	0.69
47:BO:60:LEU:O	47:BO:62:SER:N	2.25	0.69
47:BO:84:LEU:N	47:BO:104:VAL:CG1	2.51	0.69
52:BT:5:VAL:HG12	52:BT:6:LEU:N	2.07	0.69
52:BT:101:ARG:CZ	52:BT:101:ARG:HB3	2.22	0.69
54:BV:41:VAL:HB	54:BV:42:PRO:HD2	1.73	0.69
2:AA:35:G:C4	2:AA:454:A:C2	2.80	0.69
2:AA:290:G:N2	2:AA:350:U:C2	2.59	0.69
2:AA:363(A):A:H2'	2:AA:363(B):G:C5'	2.22	0.69
2:AA:500:G:C3'	2:AA:501:A:H5''	2.23	0.69
2:AA:673:C:OP1	6:AF:81:PRO:CG	2.41	0.69
2:AA:716:A:C8	2:AA:716:A:H3'	2.27	0.69
2:AA:725:G:C6	2:AA:726:G:N2	2.60	0.69
2:AA:754:C:H2'	2:AA:755:C:C5'	2.23	0.69
2:AA:848:G:C2	2:AA:849:A:N6	2.60	0.69
2:AA:931:G:C2'	2:AA:932:G:C8	2.74	0.69
2:AA:957:A:C8	2:AA:959:A:N7	2.60	0.69
2:AA:976:C:H4'	2:AA:1156:A:H62	1.56	0.69
2:AA:997:G:C5'	25:A1:92:ARG:HH11	2.06	0.69
2:AA:1006:C:HO2'	12:AM:86:MET:CB	2.05	0.69
2:AA:1053:C:O2'	2:AA:1054:A:H5'	1.92	0.69
2:AA:1061:U:H5''	2:AA:1070:A:H4'	1.74	0.69
2:AA:1085:A:C4'	9:AI:29:PHE:CD2	2.75	0.69
2:AA:142(A):A:N6	2:AA:1143:A:C6	2.60	0.69
2:AA:1266:G:N7	18:AS:16:LYS:HE3	2.07	0.69
2:AA:1339:G:H5'	19:AT:13:LYS:CE	2.21	0.69
2:AA:1470:G:N1	2:AA:1520:U:C4	2.61	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1682:G:OP1	2:AA:1699:G:N2	2.26	0.69
2:AA:1807:G:H1'	2:AA:1811:G:N2	2.08	0.69
2:AA:1833:U:H2'	2:AA:1834:U:H6	1.58	0.69
2:AA:1861:G:H5'	3:AC:205:LYS:CD	2.22	0.69
2:AA:1907:G:O6	2:AA:1923:U:O4	2.10	0.69
2:AA:1919:A:O3'	34:BA:1517:G:H1'	1.92	0.69
2:AA:1980:G:C5	2:AA:1982:C:N4	2.61	0.69
2:AA:1996:C:C2'	2:AA:1997:G:O5'	2.35	0.69
2:AA:2094:G:C2	2:AA:2196:C:C2	2.80	0.69
2:AA:2131:G:H5''	3:AC:6:ARG:HB2	1.75	0.69
2:AA:2265:U:O2	2:AA:2266:A:N7	2.26	0.69
2:AA:2320:A:N3	2:AA:2333:A:C6	2.61	0.69
2:AA:2325:G:C4	2:AA:2326:C:H5	2.10	0.69
2:AA:2624:G:N2	2:AA:2625:G:H1'	2.07	0.69
2:AA:2749:A:O4'	8:AH:62:ALA:CB	2.41	0.69
2:AA:2818:G:C6	2:AA:2829:C:N4	2.61	0.69
2:AA:2855:C:N4	2:AA:2862:G:H1	1.90	0.69
3:AC:225:ASN:O	3:AC:227:HIS:N	2.20	0.69
5:AE:223:LYS:O	5:AE:227:ALA:CA	2.41	0.69
8:AH:25:VAL:CG1	8:AH:78:VAL:HG21	2.16	0.69
8:AH:102:LEU:HG	8:AH:114:ILE:HB	1.73	0.69
11:AL:32:GLY:O	11:AL:60:VAL:HG11	1.91	0.69
13:AN:66:LYS:HE3	13:AN:82:ASN:CG	2.18	0.69
14:AO:130:ARG:O	14:AO:133:VAL:HB	1.93	0.69
15:AP:36:ASN:HB2	21:AV:114:ASP:O	1.91	0.69
15:AP:36:ASN:ND2	21:AV:116:VAL:HB	2.07	0.69
15:AP:49:VAL:HG13	15:AP:119:ASN:O	1.92	0.69
16:AQ:22:GLN:C	16:AQ:25:ARG:HB3	2.17	0.69
16:AQ:35:VAL:HA	16:AQ:103:ASP:HB3	1.74	0.69
18:AS:13:SER:O	18:AS:17:VAL:CG2	2.40	0.69
20:AU:27:LEU:HB3	20:AU:98:VAL:C	2.18	0.69
20:AU:68:ASP:C	20:AU:70:ALA:H	2.00	0.69
21:AV:6:LYS:HD3	21:AV:30:VAL:CG1	2.22	0.69
22:AW:51:LYS:HB3	22:AW:55:ARG:HE	1.58	0.69
23:AX:1:MET:CE	23:AX:3:ARG:HD2	2.21	0.69
24:A0:86:ARG:HH11	24:A0:86:ARG:CB	1.98	0.69
29:A5:34:PRO:HG2	29:A5:35:GLN:H	1.58	0.69
33:A9:24:LEU:HD13	33:A9:35:ARG:HG3	1.74	0.69
34:BA:577:G:H1'	34:BA:816:A:N3	2.07	0.69
35:BB:34:G:C5'	35:BB:34:G:C8	2.75	0.69
36:B1:14:U:O2	36:B1:42:G:N2	2.25	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:14:GLY:CA	37:BE:209:ARG:NH2	2.46	0.69
37:BE:117:GLU:O	37:BE:120:ALA:HB3	1.92	0.69
37:BE:184:VAL:HB	37:BE:198:ASP:OD2	1.93	0.69
37:BE:223:ILE:HA	37:BE:226:ARG:HD2	1.73	0.69
41:BI:33:TYR:CZ	41:BI:75:LEU:HA	2.28	0.69
41:BI:77:ARG:O	41:BI:81:ILE:HG13	1.93	0.69
44:BL:50:LEU:HD21	44:BL:58:ARG:HD2	1.74	0.69
45:BM:54:PHE:H	49:BQ:41:ARG:HH21	1.41	0.69
50:BR:18:PHE:O	50:BR:18:PHE:CD1	2.45	0.69
50:BR:87:ILE:O	50:BR:88:ARG:HB2	1.92	0.69
51:BS:23:ASP:O	51:BS:25:ARG:N	2.23	0.69
53:BU:72:ARG:O	53:BU:75:ILE:HB	1.90	0.69
1:AB:43:C:N3	1:AB:45:A:N7	2.41	0.69
1:AB:61:G:N2	1:AB:62:C:C2	2.61	0.69
1:AB:81:G:H4'	2:AA:919:G:H4'	1.74	0.69
2:AA:19:C:OP1	25:A1:23:GLY:HA2	1.93	0.69
2:AA:90:U:H4'	2:AA:91:A:O5'	1.92	0.69
2:AA:176:G:H3'	2:AA:177:G:H8	1.56	0.69
2:AA:270(D):C:O2	2:AA:270(D):C:C2'	2.37	0.69
2:AA:295:G:C6	2:AA:344:G:N1	2.61	0.69
2:AA:324:A:C2	2:AA:325:G:C1'	2.75	0.69
2:AA:338:G:H3'	2:AA:338:G:OP1	1.92	0.69
2:AA:388:G:H1'	2:AA:390:A:N6	2.07	0.69
2:AA:396:G:H2'	2:AA:397:G:C8	2.28	0.69
2:AA:411:G:OP2	2:AA:2407:G:OP2	2.11	0.69
2:AA:693:C:O2'	2:AA:694:U:H5'	1.92	0.69
2:AA:733:G:N7	2:AA:761:A:C6	2.61	0.69
2:AA:744:G:H2'	2:AA:745:G:C8	2.28	0.69
2:AA:865:C:O2	2:AA:865:C:H2'	1.92	0.69
2:AA:928:G:H2'	2:AA:929:G:C4	2.27	0.69
2:AA:981:A:H5''	2:AA:982:C:OP2	1.92	0.69
2:AA:993:G:C1'	2:AA:1162:G:N2	2.55	0.69
2:AA:1014:U:H2'	2:AA:1015:G:H5'	1.72	0.69
2:AA:1054:A:H2	9:AI:28:LYS:HG2	1.57	0.69
2:AA:1063:G:C6	2:AA:1075:C:N4	2.59	0.69
2:AA:1136:G:N2	2:AA:1137:G:H1'	2.07	0.69
2:AA:1199:U:H2'	2:AA:1200:C:O5'	1.92	0.69
2:AA:1270:C:C1'	2:AA:1325:G:N7	2.47	0.69
2:AA:1303:G:C8	2:AA:1304:C:C5	2.80	0.69
2:AA:1341:U:O4	2:AA:1395:A:H2	1.75	0.69
2:AA:1343:G:N1	2:AA:1404:C:N3	2.37	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1356:G:O2'	2:AA:1357:U:H5'	1.93	0.69
2:AA:1379:A:N6	31:A7:10:ARG:NH2	2.40	0.69
2:AA:1472:A:H62	2:AA:1474:C:N4	1.91	0.69
2:AA:1525:G:C2'	2:AA:1526:G:O5'	2.40	0.69
2:AA:1567:A:H4'	2:AA:1568:G:N1	2.08	0.69
2:AA:1602:U:C6	2:AA:1602:U:C3'	2.76	0.69
2:AA:1801:G:OP1	2:AA:1801:G:H8	1.75	0.69
2:AA:1894:C:O2	2:AA:1895:C:C5	2.45	0.69
2:AA:2058:A:N3	2:AA:2059:A:N7	2.41	0.69
2:AA:2061:G:OP2	2:AA:2502:G:OP2	2.11	0.69
2:AA:2136:C:N4	2:AA:2154:G:C6	2.60	0.69
2:AA:2210:G:O2'	2:AA:2211:G:OP2	2.09	0.69
2:AA:2298:A:C2	2:AA:2299:G:H1'	2.26	0.69
2:AA:2332:U:H5'	27:A3:70:ILE:HG22	1.74	0.69
2:AA:2353:G:O2'	27:A3:31:VAL:HG23	1.93	0.69
2:AA:2364:C:H5''	27:A3:38:VAL:CG1	2.23	0.69
2:AA:2376:A:N6	16:AQ:109:PRO:HG2	2.08	0.69
2:AA:2557:G:H2'	2:AA:2558:C:C5	2.27	0.69
2:AA:2637:U:O2	2:AA:2782:G:N2	2.26	0.69
2:AA:2686:G:O2'	2:AA:2687:U:C5'	2.41	0.69
2:AA:2700:C:C2'	2:AA:2701:C:H5''	2.22	0.69
2:AA:2712:U:C6	2:AA:712(A):A:C8	2.80	0.69
2:AA:2727:G:O2'	13:AN:70:ARG:NH1	2.24	0.69
2:AA:2771:C:C5'	5:AE:316:ARG:HD2	2.21	0.69
2:AA:2810:A:N6	2:AA:2891:G:N2	2.41	0.69
2:AA:2821:A:OP2	2:AA:2821:A:C3'	2.40	0.69
3:AC:30:LYS:HG2	3:AC:178:ALA:O	1.91	0.69
3:AC:68:LEU:HB3	3:AC:72:VAL:CG2	2.22	0.69
3:AC:76:ALA:HB1	3:AC:86:ALA:HB1	1.75	0.69
3:AC:78:ALA:HB1	3:AC:82:LYS:CB	2.22	0.69
4:AD:154:VAL:HA	4:AD:157:ALA:HB3	1.73	0.69
4:AD:167:GLU:CG	4:AD:182:MET:HE1	2.19	0.69
4:AD:167:GLU:CB	4:AD:170:TYR:CE1	2.65	0.69
4:AD:172:ILE:CA	4:AD:182:MET:HG2	2.22	0.69
5:AE:61:PRO:HB3	5:AE:69:PRO:CB	2.23	0.69
5:AE:69:PRO:O	5:AE:70:VAL:HG23	1.93	0.69
5:AE:225:LYS:N	5:AE:228:ARG:NH1	2.41	0.69
6:AF:61:PHE:C	6:AF:65:ARG:CZ	2.65	0.69
6:AF:115:LEU:CG	6:AF:246:ARG:HH22	2.05	0.69
6:AF:200:PRO:HG3	6:AF:212:VAL:HG12	1.74	0.69
7:AG:25:MET:SD	7:AG:128:LEU:O	2.49	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:103:ASN:C	7:AG:104:PHE:CD1	2.71	0.69
8:AH:10:ILE:HG23	8:AH:10:ILE:O	1.93	0.69
8:AH:10:ILE:CG1	8:AH:14:VAL:HG11	2.22	0.69
9:AI:3:ILE:HG21	11:AL:117:ASN:CA	2.13	0.69
9:AI:102:ILE:CD1	9:AI:118:LEU:HD22	2.22	0.69
9:AJ:15:VAL:HG13	9:AJ:45:ALA:O	1.93	0.69
9:AJ:18:LEU:O	9:AJ:22:VAL:HG23	1.91	0.69
9:AJ:62:VAL:HG22	9:AJ:101:VAL:HA	1.75	0.69
10:AK:77:VAL:CG1	10:AK:143:VAL:HG13	2.23	0.69
11:AL:114:PRO:O	11:AL:116:LEU:N	2.26	0.69
12:AM:104:TYR:HB3	12:AM:105:LEU:CD2	2.19	0.69
13:AN:10:VAL:HG12	13:AN:11:ALA:H	1.58	0.69
13:AN:42:THR:HG22	13:AN:58:VAL:N	2.04	0.69
13:AN:63:VAL:HG23	13:AN:84:CYS:HB3	1.74	0.69
14:AO:65:ASP:HB2	14:AO:67:ARG:HH21	1.57	0.69
15:AP:51:GLU:HA	15:AP:118:ALA:N	2.07	0.69
15:AP:89:PRO:C	15:AP:90:PHE:HD1	2.01	0.69
16:AQ:74:PRO:O	16:AQ:75:THR:C	2.36	0.69
17:AR:7:ASP:OD2	17:AR:31:PHE:HE2	1.75	0.69
17:AR:53:ASP:HB3	17:AR:56:ARG:NH2	2.07	0.69
18:AS:30:GLU:O	18:AS:33:ARG:HB2	1.92	0.69
18:AS:86:LEU:HD13	18:AS:87:PRO:CD	2.22	0.69
20:AU:72:ILE:CG2	20:AU:73:HIS:N	2.56	0.69
21:AV:68:ALA:O	21:AV:69:VAL:HG22	1.93	0.69
21:AV:100:THR:CG2	21:AV:137:ASP:OD1	2.41	0.69
22:AW:59:ILE:HG23	22:AW:60:GLN:H	1.54	0.69
24:A0:18:LEU:HD11	24:A0:22:ARG:NH2	2.08	0.69
24:A0:63:ARG:HH22	24:A0:77:ARG:CA	2.06	0.69
24:A0:103:ARG:O	24:A0:105:ARG:NH2	2.22	0.69
24:A0:105:ARG:C	24:A0:107:ASP:H	2.00	0.69
25:A1:64:ARG:O	25:A1:67:ALA:HB3	1.93	0.69
26:A2:19:VAL:O	26:A2:21:ARG:HG2	1.93	0.69
26:A2:67:LYS:CE	26:A2:94:LYS:HD2	2.23	0.69
27:A3:68:VAL:HG21	27:A3:72:LYS:CE	2.23	0.69
28:A4:58:LYS:CG	28:A4:62:ARG:HH21	2.04	0.69
31:A7:20:ALA:HA	31:A7:23:LYS:HD2	1.75	0.69
32:A8:16:ILE:HG13	32:A8:22:VAL:HG21	1.74	0.69
32:A8:22:VAL:O	32:A8:48:PHE:CE2	2.46	0.69
34:BA:8:A:H1'	40:BH:102:ALA:C	2.17	0.69
34:BA:121:C:C4'	34:BA:122:G:OP1	2.41	0.69
34:BA:572:A:O2'	34:BA:916:G:O2'	2.07	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:642:A:H1'	43:BK:113:SER:OG	1.92	0.69
34:BA:652:U:O4	34:BA:752:G:O2'	2.11	0.69
34:BA:719:C:O2	53:BU:50:ILE:HG13	1.93	0.69
34:BA:750:G:N3	50:BR:23:GLY:HA3	2.08	0.69
34:BA:817:C:C6	34:BA:819:A:H4'	2.28	0.69
34:BA:1041:A:C2	34:BA:1042:G:C8	2.81	0.69
34:BA:1049:U:H1'	34:BA:1201:A:C8	2.27	0.69
34:BA:1115:C:O2'	34:BA:1116:C:H5'	1.93	0.69
34:BA:1336:C:H1'	34:BA:1337:G:C6	2.28	0.69
34:BA:1534:A:H3'	34:BA:1534:A:C4	2.28	0.69
35:BB:37:G:C2	36:B1:63:C:C4	2.77	0.69
35:BC:19:G:H4'	35:BC:20:G:OP2	1.92	0.69
35:BC:21:A:N6	35:BC:46:G:C2	2.60	0.69
35:BC:71:G:H2'	35:BC:72:C:H5'	1.75	0.69
37:BE:80:ILE:HD11	37:BE:208:ILE:CG2	2.23	0.69
37:BE:113:HIS:O	37:BE:117:GLU:HG3	1.93	0.69
38:BF:56:ASP:O	38:BF:66:VAL:HA	1.93	0.69
38:BF:187:ALA:HB3	38:BF:198:VAL:HG21	1.74	0.69
39:BG:38:TYR:HB2	39:BG:39:PRO:CD	2.15	0.69
39:BG:121:VAL:HG11	39:BG:136:PRO:HA	1.74	0.69
39:BG:131:ARG:N	39:BG:131:ARG:HD2	2.07	0.69
40:BH:77:PRO:HG2	40:BH:78:HIS:CD2	2.26	0.69
40:BH:105:VAL:HG21	40:BH:132:ALA:HB2	1.74	0.69
41:BI:21:LEU:O	41:BI:25:ILE:HG13	1.93	0.69
42:BJ:11:GLN:NE2	42:BJ:12:LEU:H	1.91	0.69
42:BJ:14:PRO:O	42:BJ:16:LEU:HD23	1.92	0.69
43:BK:9:MET:O	43:BK:13:ILE:HG13	1.93	0.69
43:BK:38:ILE:HG13	43:BK:118:VAL:CG1	2.23	0.69
43:BK:83:ILE:CA	43:BK:137:VAL:HG22	2.22	0.69
43:BK:111:ILE:HD12	43:BK:135:CYS:C	2.17	0.69
48:BP:50:GLU:O	48:BP:53:VAL:HB	1.93	0.69
48:BP:56:LEU:O	48:BP:59:TYR:HB3	1.93	0.69
48:BP:110:ARG:HH11	48:BP:110:ARG:CB	2.05	0.69
51:BS:20:VAL:HG21	51:BS:32:TYR:HD2	1.54	0.69
53:BU:75:ILE:HG22	53:BU:76:LEU:N	2.08	0.69
1:AB:80:U:H2'	1:AB:81:G:C8	2.27	0.69
1:AB:99:A:H2'	1:AB:100:G:C8	2.28	0.69
2:AA:60:G:N3	2:AA:74:A:C6	2.61	0.69
2:AA:94:G:H21	22:AW:42:ASN:ND2	1.80	0.69
2:AA:225:A:N1	2:AA:230:U:O4	2.26	0.69
2:AA:226:G:N2	2:AA:227:A:H1'	2.08	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:270:A:N6	2:AA:370:G:C5	2.60	0.69
2:AA:349:G:C2	2:AA:350:U:C5	2.81	0.69
2:AA:352:G:C6	2:AA:353:G:C5	2.80	0.69
2:AA:458:G:H2'	31:A7:40:HIS:CE1	2.28	0.69
2:AA:558:G:C2'	2:AA:559:G:H5'	2.23	0.69
2:AA:780:G:C2'	2:AA:782:A:C8	2.72	0.69
2:AA:853:G:O2'	2:AA:854:G:C5'	2.40	0.69
2:AA:980:A:C2'	2:AA:981:A:C8	2.75	0.69
2:AA:1031:G:C6	2:AA:1032:A:N6	2.60	0.69
2:AA:1040:C:C2	2:AA:1115:G:N2	2.61	0.69
2:AA:1081:U:C5'	11:AL:123:ALA:HA	2.23	0.69
2:AA:1233:C:O2'	2:AA:1234:U:H5'	1.92	0.69
2:AA:1256:G:H2'	2:AA:1257:C:H6	1.57	0.69
2:AA:1345:C:O2'	2:AA:1346:G:H5'	1.92	0.69
2:AA:1523:U:O2'	2:AA:1524:G:H5'	1.93	0.69
2:AA:1612:C:C6	31:A7:3:ARG:NH2	2.61	0.69
2:AA:1655:A:H2'	2:AA:1656:C:O4'	1.93	0.69
2:AA:1691:C:H2'	2:AA:1692:U:C5'	2.23	0.69
2:AA:1786:A:C2	2:AA:1938:A:C6	2.81	0.69
2:AA:1856:G:C5	2:AA:1857:G:N3	2.61	0.69
2:AA:1918:A:OP2	2:AA:1918:A:H8	1.76	0.69
2:AA:2031:A:H62	2:AA:2498:C:C1'	2.05	0.69
2:AA:2307:G:C1'	2:AA:2311:A:H61	2.05	0.69
2:AA:2347:C:N4	2:AA:2348:U:O4	2.26	0.69
2:AA:2644:G:O5'	2:AA:2644:G:C8	2.45	0.69
2:AA:2834:G:O6	2:AA:2835:A:C2	2.46	0.69
3:AC:74:VAL:O	3:AC:92:ASP:HB2	1.93	0.69
5:AE:70:VAL:HG22	5:AE:297:LYS:CA	2.23	0.69
5:AE:180:ILE:HG22	5:AE:186:GLU:O	1.92	0.69
6:AF:197:SER:HB3	6:AF:239:ALA:H	1.58	0.69
10:AK:81:ALA:HB3	10:AK:89:LEU:CD2	2.22	0.69
13:AN:11:ALA:O	13:AN:99:PHE:N	2.25	0.69
14:AO:55:GLN:HG3	14:AO:56:LYS:HG2	1.75	0.69
14:AO:59:GLU:O	14:AO:60:GLU:HG3	1.92	0.69
15:AP:26:LYS:NZ	15:AP:88:PHE:HB3	2.08	0.69
18:AS:29:LEU:HD12	18:AS:33:ARG:CG	2.23	0.69
19:AT:12:GLU:O	19:AT:16:ASN:OD1	2.11	0.69
19:AT:52:VAL:HA	19:AT:65:VAL:O	1.93	0.69
20:AU:44:ALA:CB	20:AU:65:VAL:HG21	2.21	0.69
21:AV:141:MET:C	21:AV:171:VAL:HG11	2.18	0.69
22:AW:58:THR:O	22:AW:62:GLU:HG2	1.92	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:74:LYS:O	24:A0:78:LYS:HB2	1.93	0.69
28:A4:7:PRO:CG	28:A4:60:ASN:HB3	2.23	0.69
29:A5:21:SER:OG	29:A5:22:HIS:N	2.24	0.69
29:A5:21:SER:O	29:A5:23:HIS:N	2.26	0.69
34:BA:73:C:O2'	34:BA:74:C:H5'	1.93	0.69
34:BA:576:G:C8	34:BA:881:G:H1'	2.28	0.69
34:BA:708:C:C5'	46:BN:37:GLY:HA3	2.22	0.69
34:BA:770:C:H1'	34:BA:900:A:N1	2.08	0.69
34:BA:819:A:N1	34:BA:1529:G:N7	2.40	0.69
34:BA:1241:G:N1	34:BA:1296:C:O2	2.21	0.69
34:BA:1307:U:H2'	34:BA:1308:U:C6	2.28	0.69
34:BA:1398:A:H61	40:BH:21:ALA:HA	1.57	0.69
36:B1:50:G:H2'	36:B1:51:G:H8	1.57	0.69
38:BF:15:THR:O	38:BF:16:ARG:HB3	1.91	0.69
38:BF:17:ASP:HB3	38:BF:18:TRP:CE3	2.28	0.69
39:BG:110:PHE:CE1	39:BG:148:VAL:HG23	2.28	0.69
40:BH:100:VAL:C	40:BH:101:ILE:HD13	2.18	0.69
42:BJ:15:ASP:OD1	42:BJ:18:TYR:N	2.24	0.69
43:BK:91:ARG:CG	52:BT:34:LYS:H	2.03	0.69
44:BL:37:PHE:N	44:BL:37:PHE:CD2	2.61	0.69
47:BO:38:THR:HG22	47:BO:57:LYS:HB2	1.73	0.69
48:BP:14:ARG:HG2	48:BP:44:ARG:NH1	2.08	0.69
52:BT:10:VAL:CG2	52:BT:55:ASP:HB2	2.23	0.69
52:BT:58:GLU:CD	52:BT:75:ARG:HG2	2.18	0.69
53:BU:43:PHE:C	53:BU:51:LEU:HD13	2.16	0.69
1:AB:20:C:C2'	1:AB:21:G:H5'	2.22	0.69
2:AA:60:G:C2	2:AA:74:A:N6	2.61	0.69
2:AA:387:U:H5''	2:AA:388:G:OP1	1.93	0.69
2:AA:464:U:N3	2:AA:465:G:C8	2.60	0.69
2:AA:492:A:H2'	2:AA:493:G:C5'	2.22	0.69
2:AA:503:A:N1	2:AA:505:A:N6	2.40	0.69
2:AA:603:A:H2'	2:AA:604:G:C8	2.27	0.69
2:AA:669:G:C4	2:AA:801:G:C6	2.81	0.69
2:AA:772:C:H2'	2:AA:773:U:C6	2.28	0.69
2:AA:828:U:C5	2:AA:829:A:N6	2.61	0.69
2:AA:864:G:H2'	2:AA:865:C:H6	1.55	0.69
2:AA:911:A:C6	15:AP:15:THR:O	2.44	0.69
2:AA:969:U:H4'	23:AX:14:GLY:O	1.93	0.69
2:AA:1049:C:N4	2:AA:1050:A:H62	1.91	0.69
2:AA:1202:C:O2	2:AA:1202:C:H2'	1.92	0.69
2:AA:1263:U:C4'	29:A5:16:ARG:NH1	2.56	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1343:G:C3'	2:AA:1344:G:H5''	2.23	0.69
2:AA:1352:U:H1'	2:AA:1570:A:N3	2.07	0.69
2:AA:1500:G:H2'	2:AA:1501:C:C6	2.28	0.69
2:AA:1521:G:H5'	2:AA:1522:G:C8	2.28	0.69
2:AA:1583:A:P	2:AA:1586:A:H5'	2.32	0.69
2:AA:1809:A:O2'	2:AA:1810:A:P	2.51	0.69
2:AA:1819:A:N3	2:AA:1821:A:N6	2.41	0.69
2:AA:1843:C:C2	2:AA:1844:C:C5	2.80	0.69
2:AA:1854:A:C2'	2:AA:1855:G:H5'	2.23	0.69
2:AA:2015:A:C5	29:A5:6:VAL:HG21	2.28	0.69
2:AA:2043:C:H5	2:AA:2777:G:C1'	1.96	0.69
2:AA:2332:U:OP2	27:A3:51:VAL:HG21	1.92	0.69
2:AA:2393:A:H2'	2:AA:2394:C:O4'	1.93	0.69
2:AA:2447:G:C6	2:AA:2501:C:N3	2.61	0.69
2:AA:2616:C:O2'	2:AA:2617:C:H5'	1.93	0.69
2:AA:2690:C:N4	24:A0:14:SER:HB2	2.08	0.69
2:AA:2703:C:O2'	2:AA:2704:C:H5'	1.93	0.69
2:AA:2765:A:H5'	2:AA:2766:G:OP2	1.93	0.69
2:AA:2820:A:C2'	2:AA:2821:A:OP1	2.41	0.69
3:AC:27:HIS:CE1	3:AC:182:PRO:HG3	2.29	0.69
4:AD:199:ARG:HG3	4:AD:199:ARG:NH1	2.03	0.69
5:AE:74:GLU:O	5:AE:75:THR:OG1	2.08	0.69
6:AF:55:ARG:O	6:AF:79:ARG:NE	2.25	0.69
6:AF:88:SER:O	6:AF:89:ALA:HB2	1.93	0.69
6:AF:96:LYS:O	6:AF:98:ARG:NE	2.26	0.69
7:AG:13:MET:HG3	7:AG:137:PRO:HG3	1.74	0.69
11:AL:112:LYS:C	11:AL:114:PRO:HD2	2.18	0.69
12:AM:57:TYR:CB	12:AM:135:ILE:HG21	2.20	0.69
13:AN:35:ILE:N	13:AN:62:VAL:CG1	2.56	0.69
13:AN:42:THR:CB	13:AN:56:GLN:O	2.31	0.69
14:AO:73:VAL:HG13	14:AO:76:LEU:HB3	1.73	0.69
16:AQ:120:GLU:O	16:AQ:123:ILE:HB	1.93	0.69
20:AU:51:LEU:N	20:AU:97:ARG:HE	1.91	0.69
20:AU:71:VAL:CG2	20:AU:93:THR:H	2.04	0.69
20:AU:102:ASP:C	20:AU:108:ARG:HD3	2.18	0.69
23:AX:30:ARG:HH21	23:AX:33:GLN:CG	2.06	0.69
24:A0:20:LEU:CD1	24:A0:24:GLN:HG3	2.23	0.69
24:A0:55:ALA:HB2	24:A0:79:LEU:HD21	1.73	0.69
24:A0:96:ARG:HG2	24:A0:115:GLU:CG	2.22	0.69
25:A1:106:PHE:O	25:A1:107:LYS:C	2.35	0.69
25:A1:114:ARG:O	25:A1:117:ARG:CG	2.41	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:A3:28:GLY:CA	27:A3:60:PHE:HB3	2.23	0.69
28:A4:23:GLU:HA	28:A4:27:THR:O	1.93	0.69
34:BA:132:C:N3	34:BA:230:G:N2	2.33	0.69
34:BA:350:G:N2	34:BA:351:G:C2	2.60	0.69
34:BA:378:G:O5'	34:BA:378:G:H8	1.76	0.69
34:BA:421:U:H5''	34:BA:422:C:OP2	1.92	0.69
34:BA:672:U:O2	34:BA:672:U:H2'	1.91	0.69
34:BA:730:G:N2	34:BA:765:G:H4'	2.08	0.69
34:BA:995:C:H2'	49:BQ:4:LYS:NZ	2.07	0.69
34:BA:999:C:O2	34:BA:1042:G:N1	2.26	0.69
34:BA:1060:C:H2'	34:BA:1061:G:C8	2.26	0.69
34:BA:1350:A:N1	34:BA:1372:U:O2	2.26	0.69
34:BA:1423:G:O2'	34:BA:1424:C:H5'	1.93	0.69
37:BE:175:ARG:O	37:BE:176:GLU:C	2.34	0.69
37:BE:187:LEU:HD22	37:BE:201:ILE:O	1.93	0.69
37:BE:187:LEU:CD2	37:BE:201:ILE:HG22	2.19	0.69
40:BH:30:ALA:O	40:BH:45:PHE:HA	1.92	0.69
40:BH:60:TYR:O	40:BH:64:ARG:HG2	1.92	0.69
40:BH:76:ILE:HG21	40:BH:142:LEU:CD2	2.23	0.69
42:BJ:50:ILE:HD13	42:BJ:58:PRO:HA	1.73	0.69
44:BL:19:LEU:HD23	44:BL:61:ALA:HA	1.74	0.69
46:BN:62:GLN:OE1	46:BN:63:LEU:HD23	1.93	0.69
46:BN:82:VAL:CG1	46:BN:108:ILE:HG12	2.23	0.69
50:BR:36:ILE:HG22	50:BR:37:ASN:N	2.08	0.69
52:BT:59:ILE:HD12	52:BT:73:VAL:HA	1.73	0.69
54:BV:24:ALA:C	54:BV:26:GLY:H	2.00	0.69
54:BV:64:GLU:HG3	54:BV:65:ASN:N	2.07	0.69
2:AA:58:G:H1'	2:AA:70:G:N2	2.07	0.68
2:AA:134:C:O2'	2:AA:135:G:H5'	1.93	0.68
2:AA:270(A):A:H5'	2:AA:270(B):A:OP2	1.93	0.68
2:AA:270(H):C:O2'	2:AA:270(I):G:H5'	1.93	0.68
2:AA:358:U:C2	2:AA:359:A:H5'	2.28	0.68
2:AA:389:G:N3	2:AA:389:G:H2'	2.08	0.68
2:AA:493:G:H2'	2:AA:494:G:H8	1.57	0.68
2:AA:501:A:N7	2:AA:502:A:N6	2.41	0.68
2:AA:784:A:N7	2:AA:792:G:C5	2.61	0.68
2:AA:792:G:O2'	2:AA:793:A:OP2	2.10	0.68
2:AA:961:C:C4	2:AA:2031:A:C2	2.81	0.68
2:AA:989:G:H4'	2:AA:1157:G:H5''	1.74	0.68
2:AA:1309:G:C2'	2:AA:1310:G:C5'	2.67	0.68
2:AA:1338:G:H2'	2:AA:1339:G:C8	2.26	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1475:G:H2'	2:AA:1475:G:N3	2.08	0.68
2:AA:1498:C:H3'	2:AA:1499:C:H6	1.57	0.68
2:AA:1673:U:C2'	2:AA:1674:G:O5'	2.40	0.68
2:AA:1699:G:O6	2:AA:1763:G:C1'	2.42	0.68
2:AA:1811:G:H2'	2:AA:1812:A:C8	2.28	0.68
2:AA:1939:U:H1'	2:AA:2592:G:C4'	2.03	0.68
2:AA:1961:C:O2'	2:AA:1962:C:H5'	1.92	0.68
2:AA:2108:C:H5''	2:AA:2109:U:H5	1.58	0.68
2:AA:2206:C:O2'	2:AA:2207:C:H5'	1.92	0.68
2:AA:2216:G:C2'	2:AA:2217:G:H5'	2.22	0.68
2:AA:2378:A:H8	2:AA:2378:A:O5'	1.76	0.68
2:AA:2654:A:H1'	2:AA:2656:U:C4	2.27	0.68
4:AD:87:SER:HG	4:AD:156:ALA:CB	2.02	0.68
5:AE:200:ASP:C	5:AE:266:LYS:HD2	2.17	0.68
5:AE:240:PRO:CB	5:AE:243:PRO:HG3	2.23	0.68
6:AF:147:LEU:HD12	6:AF:156:LEU:HD11	1.75	0.68
6:AF:197:SER:HB2	6:AF:238:SER:C	2.18	0.68
8:AH:27:GLY:O	8:AH:30:GLY:O	2.11	0.68
8:AH:84:LYS:O	8:AH:131:ILE:HG22	1.92	0.68
8:AH:103:VAL:C	8:AH:104:LEU:HD12	2.17	0.68
9:AI:18:LEU:HD13	9:AI:45:ALA:N	2.08	0.68
13:AN:35:ILE:N	13:AN:62:VAL:HG11	2.08	0.68
13:AN:92:SER:HB3	13:AN:113:LYS:NZ	2.08	0.68
13:AN:103:ALA:HB3	13:AN:105:GLU:HG2	1.73	0.68
14:AO:67:ARG:NH1	14:AO:110:GLY:O	2.26	0.68
16:AQ:85:GLY:HA3	16:AQ:121:GLY:HA3	1.75	0.68
19:AT:13:LYS:O	19:AT:14:ALA:C	2.35	0.68
21:AV:124:ALA:H	21:AV:159:THR:CG2	2.06	0.68
26:A2:19:VAL:CB	26:A2:21:ARG:HH12	2.06	0.68
26:A2:65:ARG:NH1	26:A2:94:LYS:HZ3	1.91	0.68
28:A4:5:LEU:CD1	28:A4:60:ASN:ND2	2.47	0.68
34:BA:333:G:C4'	55:BW:16:HIS:NE2	2.55	0.68
34:BA:656:C:C2'	34:BA:657:G:H5'	2.24	0.68
34:BA:977:A:H2'	34:BA:977:A:N3	2.08	0.68
34:BA:1124:G:H3'	34:BA:1145:C:N4	2.06	0.68
34:BA:1298:C:C4'	42:BJ:114:ARG:HH12	2.06	0.68
34:BA:1403:C:H1'	34:BA:1500:A:H61	1.58	0.68
34:BA:1418:A:C2	34:BA:1483:A:N1	2.61	0.68
35:BC:17:U:H5''	35:BC:18:G:C3'	2.23	0.68
36:B1:46:A:H5''	36:B1:47:U:C6	2.28	0.68
38:BF:64:VAL:HB	38:BF:99:VAL:CG1	2.17	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:191:ARG:HH22	39:BG:196:LEU:CB	2.06	0.68
39:BG:205:GLU:O	39:BG:208:SER:N	2.26	0.68
43:BK:48:TYR:CB	43:BK:61:VAL:HG22	2.24	0.68
43:BK:68:ARG:HD3	43:BK:69:ARG:N	2.09	0.68
45:BM:54:PHE:CE1	45:BM:55:LYS:HG2	2.28	0.68
46:BN:126:ARG:C	46:BN:128:ALA:N	2.48	0.68
53:BU:70:ILE:O	53:BU:74:ARG:HD2	1.93	0.68
55:BW:62:LEU:CA	55:BW:65:LYS:HG2	2.23	0.68
1:AB:12:C:H5	27:A3:53:MET:CA	2.04	0.68
2:AA:28:A:O2'	2:AA:583:G:H5'	1.93	0.68
2:AA:99:U:N3	20:AU:107:LYS:CD	2.56	0.68
2:AA:195:A:N3	2:AA:198:C:N4	2.41	0.68
2:AA:215:G:O4'	2:AA:216:A:H4'	1.91	0.68
2:AA:247:G:O2'	2:AA:386:G:N2	2.26	0.68
2:AA:292:C:H2'	2:AA:293:U:H3	1.56	0.68
2:AA:331:A:C6	2:AA:1209:G:C2	2.80	0.68
2:AA:396:G:H2'	2:AA:397:G:H8	1.57	0.68
2:AA:544:C:N3	2:AA:549:G:O6	2.26	0.68
2:AA:594:U:N3	2:AA:595:C:N4	2.41	0.68
2:AA:638:G:N7	2:AA:639:U:N3	2.41	0.68
2:AA:929:G:H2'	23:AX:37:LEU:HD13	1.75	0.68
2:AA:972:G:OP1	2:AA:974(A):C:H5'	1.93	0.68
2:AA:994:C:H5'	2:AA:995:C:OP2	1.92	0.68
2:AA:1021:A:C2'	2:AA:1022:G:OP1	2.39	0.68
2:AA:1059:G:H1'	11:AL:127:ILE:HG21	1.74	0.68
2:AA:1263:U:C2	2:AA:1264:G:N2	2.62	0.68
2:AA:1424:G:C2	2:AA:1425:G:O4'	2.46	0.68
2:AA:1487:G:H2'	2:AA:1488:G:C8	2.19	0.68
2:AA:1535:U:H5''	2:AA:1536:A:C4'	2.23	0.68
2:AA:1669:A:O2'	2:AA:1670:C:OP1	2.12	0.68
2:AA:1682:G:C5	2:AA:1757:U:H1'	2.29	0.68
2:AA:1789:A:H2'	2:AA:1790:C:C1'	2.24	0.68
2:AA:1839:G:H2'	2:AA:1839:G:N3	2.09	0.68
2:AA:1941:C:C4	2:AA:1942:C:C5	2.81	0.68
2:AA:1967:C:O2	2:AA:1968:G:O4'	2.11	0.68
2:AA:1981:A:C5'	2:AA:1982:C:OP2	2.36	0.68
2:AA:2072:G:C5	2:AA:2073:C:C5	2.80	0.68
2:AA:2177:C:H5''	3:AC:46:LYS:HD2	1.75	0.68
2:AA:2250:G:H3'	2:AA:2250:G:C8	2.27	0.68
2:AA:2332:U:C4'	2:AA:2336:A:H61	2.07	0.68
2:AA:2459:A:N6	2:AA:2493:U:C4	2.60	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2756:U:O2'	2:AA:2757:A:C5'	2.40	0.68
4:AD:232:VAL:CG2	4:AD:233:ASP:N	2.56	0.68
5:AE:109:ASP:OD1	5:AE:112:LEU:HB3	1.92	0.68
6:AF:196:THR:OG1	6:AF:201:SER:N	2.26	0.68
7:AG:67:ASP:HB2	7:AG:69:ILE:HD12	1.75	0.68
8:AH:43:THR:OG1	8:AH:50:THR:O	2.09	0.68
8:AH:43:THR:HG23	8:AH:50:THR:O	1.92	0.68
8:AH:88:LEU:HD11	8:AH:94:ARG:C	2.18	0.68
8:AH:102:LEU:CD1	8:AH:104:LEU:HD11	2.24	0.68
9:AI:18:LEU:O	9:AI:22:VAL:HG23	1.93	0.68
10:AK:6:LEU:O	10:AK:6:LEU:CD1	2.39	0.68
10:AK:78:THR:HA	10:AK:144:HIS:NE2	2.08	0.68
11:AL:58:ILE:CG2	11:AL:67:THR:HA	2.23	0.68
13:AN:121:VAL:O	13:AN:122:ILE:HG13	1.93	0.68
14:AO:65:ASP:HB3	14:AO:109:LEU:HB3	1.75	0.68
15:AP:88:PHE:O	15:AP:113:ALA:HB2	1.93	0.68
16:AQ:15:GLU:O	16:AQ:16:ALA:CB	2.41	0.68
17:AR:10:GLY:H	17:AR:52:THR:HB	1.58	0.68
17:AR:25:ASP:O	17:AR:26:GLY:C	2.34	0.68
17:AR:30:HIS:O	17:AR:31:PHE:CD2	2.47	0.68
21:AV:19:ILE:HB	21:AV:36:ARG:HG2	1.76	0.68
21:AV:141:MET:CA	21:AV:171:VAL:HG11	2.23	0.68
23:AX:30:ARG:CG	23:AX:30:ARG:NH1	2.54	0.68
24:A0:34:ILE:CG2	24:A0:35:THR:N	2.56	0.68
25:A1:113:SER:O	25:A1:116:ALA:HB3	1.93	0.68
26:A2:33:VAL:HG12	26:A2:34:GLU:N	2.06	0.68
34:BA:61:G:N7	34:BA:62:U:C4	2.61	0.68
34:BA:318:G:C2'	34:BA:319:G:H5'	2.22	0.68
34:BA:475:G:H2'	34:BA:476:G:C8	2.28	0.68
34:BA:575:G:N1	34:BA:821:G:C8	2.61	0.68
34:BA:597:G:C4	34:BA:644:G:C2	2.81	0.68
34:BA:671:G:C2'	34:BA:672:U:H6	2.06	0.68
34:BA:874:G:N2	34:BA:875:C:H1'	2.08	0.68
34:BA:1067:A:O2'	34:BA:1068:G:P	2.51	0.68
34:BA:1360:A:N1	34:BA:1361:G:C2	2.61	0.68
35:BB:32:C:N4	35:BB:33:U:C4	2.60	0.68
35:BC:8:U:C1'	35:BC:48:C:O2'	2.41	0.68
35:BC:54:U:C2'	35:BC:55:U:H5'	2.23	0.68
37:BE:130:ARG:HB3	37:BE:134:GLU:CG	2.23	0.68
37:BE:222:ILE:HG12	37:BE:223:ILE:H	1.56	0.68
37:BE:229:VAL:O	37:BE:230:VAL:HG13	1.94	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:47:LEU:HD13	38:BF:83:ARG:HH21	1.57	0.68
39:BG:8:VAL:HA	39:BG:11:LEU:HG	1.76	0.68
42:BJ:80:VAL:CG2	42:BJ:85:TYR:HB2	2.23	0.68
42:BJ:94:ARG:C	42:BJ:94:ARG:NH1	2.52	0.68
43:BK:30:ARG:O	43:BK:33:GLU:HB3	1.92	0.68
43:BK:53:VAL:HG12	43:BK:54:ASP:OD1	1.94	0.68
45:BM:6:ILE:HG22	45:BM:98:ILE:CG1	2.23	0.68
46:BN:58:PRO:HA	46:BN:90:GLY:CA	2.17	0.68
47:BO:7:ILE:O	47:BO:11:VAL:HG23	1.92	0.68
47:BO:80:HIS:ND1	47:BO:80:HIS:N	2.40	0.68
48:BP:66:LEU:HA	48:BP:70:LEU:HD12	1.75	0.68
51:BS:7:ALA:O	51:BS:17:TYR:HA	1.92	0.68
1:AB:83:G:H4'	23:AX:52:HIS:CD2	2.23	0.68
2:AA:363(D):G:H2'	2:AA:363(E):U:H6	1.57	0.68
2:AA:364:C:H2'	2:AA:365:C:C6	2.28	0.68
2:AA:364:C:N3	2:AA:365:C:N4	2.40	0.68
2:AA:468:G:O2'	2:AA:469:G:H5'	1.91	0.68
2:AA:529:A:H2'	2:AA:530:G:H8	1.57	0.68
2:AA:533:G:C5	2:AA:534:U:C4	2.81	0.68
2:AA:593:G:H1'	32:A8:3:LYS:HZ2	1.56	0.68
2:AA:713:G:C6	2:AA:714:U:C5	2.81	0.68
2:AA:866:A:C2	2:AA:867:C:H6	2.11	0.68
2:AA:951:C:O2'	2:AA:952:G:C5'	2.40	0.68
2:AA:1027:A:N6	2:AA:1126:A:H1'	2.08	0.68
2:AA:1047:G:N2	2:AA:1111:A:N6	2.41	0.68
2:AA:1212:G:O2'	2:AA:1213:A:H8	1.76	0.68
2:AA:1227:A:H2'	2:AA:1228:G:C5'	2.24	0.68
2:AA:1280:G:C2'	2:AA:1281:G:O5'	2.41	0.68
2:AA:1301:A:O2'	2:AA:1302:A:OP1	2.11	0.68
2:AA:1340:U:O4	19:AT:57:THR:HG22	1.92	0.68
2:AA:1658:C:OP1	5:AE:230:GLY:C	2.37	0.68
2:AA:1683:C:N4	2:AA:1684:C:H41	1.91	0.68
2:AA:2352:A:C8	2:AA:2366:A:N1	2.62	0.68
2:AA:2507:C:N3	2:AA:2583:G:C2	2.62	0.68
2:AA:2531:A:H2'	2:AA:2532:G:O5'	1.93	0.68
2:AA:2654:A:N6	2:AA:2667:C:N4	2.41	0.68
2:AA:2733:A:N7	2:AA:2734:A:C8	2.61	0.68
2:AA:2839:G:O2'	2:AA:2840:C:H5'	1.94	0.68
2:AA:2899:G:H2'	2:AA:2900:A:C8	2.28	0.68
3:AC:114:VAL:HG21	3:AC:153:ILE:CG1	2.24	0.68
4:AD:139:LEU:O	4:AD:139:LEU:HD12	1.92	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:142:ASN:HB2	4:AD:190:THR:H	1.58	0.68
4:AD:154:VAL:O	4:AD:154:VAL:HG12	1.92	0.68
5:AE:222:ARG:NE	5:AE:232:ARG:C	2.51	0.68
5:AE:269:ILE:CA	5:AE:297:LYS:NZ	2.53	0.68
6:AF:207:LEU:O	6:AF:209:GLY:N	2.23	0.68
7:AG:82:GLU:O	7:AG:85:GLN:CD	2.36	0.68
8:AH:34:ARG:NH2	8:AH:74:MET:CA	2.55	0.68
9:AJ:15:VAL:HG22	9:AJ:48:ALA:CB	2.24	0.68
9:AJ:72:GLN:HA	9:AJ:75:LYS:HD2	1.75	0.68
15:AP:48:ASN:CA	15:AP:140:TYR:OH	2.36	0.68
16:AQ:38:LYS:HZ3	16:AQ:110:THR:HG21	1.55	0.68
16:AQ:39:SER:O	16:AQ:41:LYS:N	2.26	0.68
17:AR:53:ASP:O	17:AR:56:ARG:NE	2.25	0.68
18:AS:77:ASP:O	18:AS:102:HIS:CB	2.41	0.68
19:AT:69:SER:O	19:AT:70:GLU:HB2	1.92	0.68
20:AU:44:ALA:HB1	20:AU:65:VAL:HG11	1.74	0.68
22:AW:34:GLN:N	22:AW:34:GLN:OE1	2.26	0.68
24:A0:83:ILE:O	24:A0:84:ALA:C	2.35	0.68
24:A0:99:LYS:O	29:A5:44:HIS:CD2	2.47	0.68
24:A0:107:ASP:OD2	24:A0:109:ALA:HB3	1.93	0.68
25:A1:69:ALA:CB	25:A1:79:PHE:CZ	2.76	0.68
28:A4:48:ARG:HB2	28:A4:71:SER:CB	2.23	0.68
34:BA:308:C:H2'	34:BA:309:G:O5'	1.92	0.68
34:BA:439:A:H5''	34:BA:494:G:H22	1.56	0.68
34:BA:520:A:N6	34:BA:529:G:C2	2.61	0.68
34:BA:1313:U:O4	54:BV:4:SER:OG	2.08	0.68
34:BA:1473:A:H2'	34:BA:1474:G:O5'	1.92	0.68
36:B1:18:U:H6	36:B1:18:U:O5'	1.75	0.68
36:B1:59:A:C2'	36:B1:60:A:O5'	2.40	0.68
39:BG:61:LYS:NZ	39:BG:65:ARG:HD2	2.08	0.68
40:BH:94:ALA:HB3	40:BH:117:ASP:C	2.18	0.68
42:BJ:36:LYS:HZ2	42:BJ:36:LYS:CB	2.06	0.68
42:BJ:46:ALA:CA	42:BJ:49:ILE:HD12	2.24	0.68
42:BJ:54:THR:C	42:BJ:56:GLN:H	2.01	0.68
42:BJ:65:ALA:CB	42:BJ:124:LEU:HD23	2.22	0.68
42:BJ:77:SER:O	42:BJ:156:TRP:HH2	1.75	0.68
42:BJ:91:VAL:O	42:BJ:91:VAL:HG12	1.93	0.68
43:BK:18:ARG:HH22	43:BK:78:GLN:CG	2.06	0.68
43:BK:64:LYS:CD	43:BK:79:VAL:HG21	2.22	0.68
44:BL:84:ALA:O	44:BL:87:GLN:HB2	1.93	0.68
48:BP:13:LYS:C	48:BP:44:ARG:HG3	2.19	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:15:MET:HB2	52:BT:18:THR:CB	2.22	0.68
53:BU:47:THR:N	53:BU:49:LYS:NZ	2.41	0.68
54:BV:53:ASN:HD21	54:BV:58:VAL:HG13	1.58	0.68
55:BW:53:LEU:HA	55:BW:56:MET:CG	2.24	0.68
2:AA:270(E):G:O2'	2:AA:270(F):U:H5'	1.92	0.68
2:AA:290:G:N2	2:AA:350:U:O2	2.27	0.68
2:AA:291:C:O2'	2:AA:292:C:H5'	1.93	0.68
2:AA:412:A:N6	2:AA:2411:A:H1'	2.09	0.68
2:AA:521:G:O2'	2:AA:522:G:H5'	1.93	0.68
2:AA:559:G:H2'	2:AA:560:C:O4'	1.93	0.68
2:AA:583:G:O2'	2:AA:584:C:H5'	1.92	0.68
2:AA:648:G:C2'	2:AA:649:G:H8	1.92	0.68
2:AA:853:G:O2'	2:AA:854:G:H5'	1.93	0.68
2:AA:969:U:C2'	2:AA:970:C:H6	2.07	0.68
2:AA:988:A:P	23:AX:11:SER:HB2	2.34	0.68
2:AA:1058:G:N2	11:AL:117:ASN:ND2	2.41	0.68
2:AA:1216:G:P	25:A1:8:ILE:HG22	2.33	0.68
2:AA:1458:C:H4'	2:AA:1459:G:C8	2.29	0.68
2:AA:1602:U:OP2	2:AA:1602:U:C4	2.46	0.68
2:AA:1742:C:C2'	2:AA:1743:G:O4'	2.41	0.68
2:AA:1801:G:C2	2:AA:2207:C:H4'	2.28	0.68
2:AA:1966:A:O2'	2:AA:1967:C:P	2.51	0.68
2:AA:2009:G:N3	24:A0:106:GLY:O	2.27	0.68
2:AA:2076:U:O2'	2:AA:2077:A:OP1	2.11	0.68
2:AA:2286:A:C8	2:AA:2286:A:C3'	2.76	0.68
2:AA:2371:G:C2	2:AA:2372:G:C5	2.82	0.68
2:AA:2572:A:N7	5:AE:241:TRP:CG	2.62	0.68
2:AA:2647:U:O2'	2:AA:2648:C:H5'	1.93	0.68
2:AA:2712:U:C3'	2:AA:712(A):A:H5''	2.23	0.68
2:AA:2732:G:H5'	2:AA:2733:A:O5'	1.92	0.68
2:AA:2785:C:H4'	5:AE:99:VAL:CG1	2.23	0.68
2:AA:2862:G:C4	2:AA:2863:C:C5	2.82	0.68
2:AA:2882:A:OP1	24:A0:96:ARG:HB2	1.93	0.68
5:AE:44:TYR:CZ	5:AE:308:VAL:HG13	2.28	0.68
5:AE:210:THR:HG22	5:AE:255:GLN:HG2	1.75	0.68
7:AG:20:LYS:CE	7:AG:76:ARG:HE	2.05	0.68
8:AH:10:ILE:HD12	8:AH:49:ILE:CG1	2.24	0.68
8:AH:101:LYS:HD3	8:AH:113:GLU:OE2	1.93	0.68
8:AH:161:ILE:C	8:AH:162:ARG:HG3	2.19	0.68
11:AL:42:PHE:HZ	11:AL:58:ILE:HD11	1.59	0.68
13:AN:25:LEU:HD21	13:AN:40:VAL:HG23	1.76	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:141:GLU:HB2	14:AO:145:LEU:HD13	1.74	0.68
16:AQ:21:HIS:CD2	16:AQ:24:LEU:HG	2.28	0.68
16:AQ:85:GLY:O	16:AQ:86:LEU:C	2.37	0.68
18:AS:8:ARG:HG3	18:AS:102:HIS:ND1	2.08	0.68
20:AU:71:VAL:CG2	20:AU:93:THR:HG23	2.24	0.68
21:AV:1:MET:N	21:AV:54:ILE:HD12	2.09	0.68
21:AV:19:ILE:HB	21:AV:39:PHE:CE1	2.27	0.68
21:AV:72:ASP:OD1	21:AV:79:ILE:O	2.10	0.68
24:A0:56:LYS:O	24:A0:57:ARG:C	2.37	0.68
27:A3:38:VAL:C	27:A3:40:GLN:N	2.47	0.68
31:A7:30:ILE:HA	31:A7:33:ARG:HD2	1.74	0.68
34:BA:47:C:O2'	34:BA:48:C:OP2	2.09	0.68
34:BA:112:G:O2'	34:BA:113:G:H5'	1.94	0.68
34:BA:112:G:C4'	34:BA:389:A:H5''	2.24	0.68
34:BA:254:G:H4'	52:BT:18:THR:HG21	1.75	0.68
34:BA:263:A:C2'	34:BA:264:U:H5''	2.23	0.68
34:BA:300:A:O2'	34:BA:301:G:H5'	1.93	0.68
34:BA:357:G:OP1	34:BA:367:U:C3'	2.39	0.68
34:BA:459:G:N2	34:BA:463:A:N6	2.39	0.68
34:BA:499:A:H4'	34:BA:500:G:H5'	1.73	0.68
34:BA:571:U:H5''	34:BA:572:A:OP2	1.94	0.68
34:BA:686:U:O2	34:BA:686:U:H2'	1.91	0.68
34:BA:840:C:H5'	34:BA:848:C:C2	2.29	0.68
34:BA:1094:G:H2'	34:BA:1108:G:N2	2.07	0.68
34:BA:1292:U:OP2	34:BA:1292:U:H6	1.77	0.68
36:B1:36:A:C5	36:B1:37:C:H1'	2.28	0.68
39:BG:64:LEU:HD13	39:BG:65:ARG:N	2.09	0.68
39:BG:122:ARG:HE	39:BG:122:ARG:HA	1.57	0.68
46:BN:23:ALA:HB1	46:BN:28:THR:OG1	1.93	0.68
46:BN:42:TRP:HE3	46:BN:43:SER:HA	1.59	0.68
48:BP:104:ARG:HG2	48:BP:105:THR:CG2	2.23	0.68
50:BR:36:ILE:HA	50:BR:59:MET:HE1	1.75	0.68
53:BU:21:LYS:HE2	53:BU:57:GLY:CA	2.22	0.68
56:BX:10:ARG:O	56:BX:13:ILE:HB	1.93	0.68
2:AA:27:G:N2	2:AA:512:G:C2'	2.55	0.68
2:AA:128:C:H2'	2:AA:129:C:C6	2.27	0.68
2:AA:244:A:H1'	2:AA:255:A:H61	1.56	0.68
2:AA:618:G:C5	2:AA:618(A):C:N4	2.61	0.68
2:AA:668:G:H2'	2:AA:670:A:N7	2.08	0.68
2:AA:770:G:H5'	31:A7:10:ARG:NH1	2.08	0.68
2:AA:807:U:H2'	2:AA:808:G:C8	2.28	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1041:C:N4	2:AA:1114:G:H1	1.86	0.68
2:AA:1060:U:H5''	2:AA:1061:U:O4	1.93	0.68
2:AA:1091:G:N1	2:AA:1101:U:C4	2.61	0.68
2:AA:1248:G:C8	25:A1:2:PRO:HB3	2.28	0.68
2:AA:1351:C:O2'	2:AA:1571:A:H1'	1.92	0.68
2:AA:1530:G:C5	2:AA:1542:G:N7	2.61	0.68
2:AA:1630:G:C5	2:AA:630(A):C:C5	2.81	0.68
2:AA:2143:C:N3	2:AA:2148:G:O6	2.26	0.68
2:AA:2331:G:HO2'	27:A3:70:ILE:HG21	1.59	0.68
2:AA:2334:G:H1'	16:AQ:21:HIS:HD1	1.57	0.68
2:AA:2706:G:N1	2:AA:2707:G:C5	2.61	0.68
2:AA:2738:A:N1	2:AA:2739:U:O2	2.27	0.68
3:AC:75:LEU:CD1	3:AC:93:TYR:HB2	2.22	0.68
4:AD:104:ILE:O	4:AD:104:ILE:HD12	1.93	0.68
4:AD:158:GLY:N	4:AD:196:ASN:HD21	1.90	0.68
5:AE:176:HIS:HA	5:AE:179:ASP:OD1	1.94	0.68
8:AH:100:LYS:O	8:AH:100:LYS:HG3	1.92	0.68
10:AK:78:THR:HG22	10:AK:144:HIS:CE1	2.28	0.68
10:AK:115:ILE:O	10:AK:132:LYS:CE	2.42	0.68
14:AO:104:ASP:C	14:AO:105:TYR:CG	2.71	0.68
14:AO:122:ALA:HB3	14:AO:125:PHE:CZ	2.28	0.68
15:AP:87:LYS:C	15:AP:88:PHE:CG	2.72	0.68
17:AR:22:VAL:HA	17:AR:29:THR:OG1	1.94	0.68
18:AS:40:ASN:O	18:AS:41:LYS:O	2.11	0.68
19:AT:30:ASP:CA	19:AT:62:LYS:HD2	2.20	0.68
20:AU:101:LEU:HD13	20:AU:113:GLU:CD	2.19	0.68
25:A1:40:LEU:HD21	26:A2:83:ARG:CZ	2.22	0.68
26:A2:1:MET:O	26:A2:15:SER:CB	2.40	0.68
27:A3:43:THR:O	27:A3:64:ASP:HB3	1.94	0.68
31:A7:20:ALA:HA	31:A7:23:LYS:CD	2.24	0.68
32:A8:20:GLY:O	32:A8:57:ARG:NH2	2.27	0.68
34:BA:294:U:H2'	34:BA:295:C:C6	2.28	0.68
34:BA:659:U:OP1	50:BR:9:GLN:NE2	2.27	0.68
34:BA:1121:U:O5'	34:BA:1121:U:H6	1.75	0.68
34:BA:1310:G:N1	34:BA:1328:C:C4	2.61	0.68
35:BB:7:U:O4	35:BB:67:A:N6	2.26	0.68
35:BB:9:A:N6	35:BB:22:G:H8	1.92	0.68
35:BB:26:G:N2	35:BB:27:C:H1'	2.08	0.68
38:BF:33:LEU:HD21	49:BQ:54:PRO:CD	2.24	0.68
39:BG:25:ARG:HH21	39:BG:30:LYS:CE	2.06	0.68
40:BH:91:LEU:HD21	40:BH:118:ILE:HG21	1.75	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BI:75:LEU:HD13	41:BI:79:LEU:HD21	1.76	0.68
43:BK:44:PHE:HA	43:BK:79:VAL:CG1	2.23	0.68
43:BK:98:LYS:O	43:BK:100:ILE:HD12	1.92	0.68
47:BO:37:CYS:HA	47:BO:57:LYS:O	1.94	0.68
47:BO:56:ALA:HB2	47:BO:70:ILE:HG12	1.76	0.68
48:BP:96:LEU:HB2	48:BP:97:PRO:HD2	1.76	0.68
49:BQ:41:ARG:HA	49:BQ:44:LEU:HD23	1.75	0.68
52:BT:97:SER:C	52:BT:98:LEU:HG	2.19	0.68
53:BU:41:LYS:O	53:BU:44:LEU:HD22	1.94	0.68
1:AB:71:C:H2'	1:AB:72:G:C8	2.29	0.68
2:AA:137:C:N4	2:AA:142:G:H1	1.91	0.68
2:AA:137(A):G:O6	2:AA:139:G:N1	2.27	0.68
2:AA:154:G:C2	2:AA:155:C:C1'	2.76	0.68
2:AA:273(B):C:N3	2:AA:363(D):G:O6	2.27	0.68
2:AA:641:C:C2'	2:AA:642:G:O4'	2.42	0.68
2:AA:656:G:O2'	2:AA:657:U:H5'	1.93	0.68
2:AA:685:A:C2	2:AA:774:A:C2	2.81	0.68
2:AA:759:G:O2'	2:AA:760:G:H5'	1.93	0.68
2:AA:826:U:OP1	2:AA:2429:G:OP1	2.11	0.68
2:AA:978:G:N2	2:AA:986:C:N3	2.41	0.68
2:AA:1005:C:H1'	12:AM:21:ARG:CG	2.23	0.68
2:AA:1102:C:H1'	2:AA:1103:A:N7	2.09	0.68
2:AA:1152:C:H5''	25:A1:80:ILE:HG22	1.76	0.68
2:AA:1353:A:C6	2:AA:1378:A:C6	2.82	0.68
2:AA:1358:G:C2'	2:AA:1373:A:H61	2.07	0.68
2:AA:1479:G:N2	2:AA:1514:U:O2	2.26	0.68
2:AA:1741:C:HO2'	2:AA:1742:C:H5'	1.58	0.68
2:AA:1920:C:H5''	34:BA:1517:G:N7	2.09	0.68
2:AA:2041:U:C2'	2:AA:2042:A:C5'	2.66	0.68
2:AA:2122:U:C2'	3:AC:166:ASP:HB2	2.23	0.68
2:AA:2404:C:C6	2:AA:2414:G:N2	2.62	0.68
2:AA:2663:G:H2'	2:AA:2664:G:O4'	1.92	0.68
2:AA:2835:A:N6	2:AA:2878:U:H3'	2.09	0.68
2:AA:2872:G:N2	2:AA:2873:A:H61	1.91	0.68
6:AF:195:VAL:HG21	6:AF:235:PHE:CD2	2.29	0.68
6:AF:223:LEU:O	6:AF:224:ALA:C	2.37	0.68
9:AI:103:LYS:HD3	9:AI:114:ILE:HG12	1.75	0.68
10:AK:124:LEU:HD21	10:AK:147:GLU:N	2.08	0.68
13:AN:22:ILE:HG13	13:AN:41:ALA:CA	2.20	0.68
16:AQ:59:ALA:HB3	16:AQ:91:ARG:HH12	1.57	0.68
16:AQ:110:THR:O	16:AQ:111:PRO:C	2.32	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AR:50:GLU:CA	17:AR:55:ALA:HB3	2.24	0.68
21:AV:45:GLN:N	21:AV:45:GLN:NE2	2.42	0.68
23:AX:26:LEU:CD2	23:AX:46:ASN:HD22	2.07	0.68
25:A1:9:VAL:HG12	25:A1:13:ARG:HH22	1.57	0.68
30:A6:30:ASN:OD1	30:A6:31:THR:HG23	1.92	0.68
34:BA:126:G:N2	34:BA:127:G:C4	2.62	0.68
34:BA:357:G:O2'	34:BA:358:U:H5'	1.94	0.68
34:BA:596:C:N4	34:BA:644:G:H1	1.91	0.68
34:BA:659:U:O2'	34:BA:660:G:H5'	1.93	0.68
34:BA:1115:C:H42	34:BA:1185:G:H1	1.40	0.68
34:BA:1214:C:H2'	34:BA:1214:C:O2	1.92	0.68
35:BB:39:U:H2'	35:BB:40:C:C6	2.28	0.68
35:BC:10:G:N2	35:BC:11:C:C2	2.61	0.68
37:BE:53:ARG:HG2	37:BE:199:TYR:CE2	2.27	0.68
37:BE:60:ASP:HA	37:BE:63:MET:SD	2.34	0.68
37:BE:77:ALA:CB	37:BE:211:ILE:HD13	2.24	0.68
37:BE:221:LEU:HA	37:BE:224:GLN:CD	2.17	0.68
39:BG:29:PRO:HA	39:BG:34:GLU:HG2	1.74	0.68
41:BI:50:TYR:OH	53:BU:74:ARG:O	2.07	0.68
43:BK:18:ARG:HD2	43:BK:18:ARG:H	1.58	0.68
44:BL:114:TYR:HB3	45:BM:60:ARG:HH12	1.57	0.68
45:BM:3:LYS:HG3	45:BM:75:ILE:HA	1.74	0.68
49:BQ:16:PHE:O	49:BQ:17:LYS:C	2.37	0.68
51:BS:14:ASN:OD1	51:BS:14:ASN:C	2.36	0.68
1:AB:9:G:N2	1:AB:111:U:O2	2.26	0.68
2:AA:133:C:H2'	2:AA:134:C:C6	2.28	0.68
2:AA:233:A:H2'	2:AA:234:C:H6	1.59	0.68
2:AA:288:C:C6	2:AA:288:C:H3'	2.28	0.68
2:AA:304:G:N2	2:AA:313:C:N3	2.40	0.68
2:AA:378:C:N3	2:AA:396:G:O6	2.26	0.68
2:AA:639:U:H3	2:AA:649:G:H1	1.40	0.68
2:AA:771:G:C4	2:AA:772:C:C5	2.81	0.68
2:AA:784:A:OP1	2:AA:2588:G:H5''	1.94	0.68
2:AA:830:G:O2'	2:AA:831:G:OP1	2.10	0.68
2:AA:929:G:H21	23:AX:42:ALA:C	2.02	0.68
2:AA:1005:C:H5	2:AA:1143:A:H5''	1.56	0.68
2:AA:1011:G:H2'	2:AA:1013:C:H5'	1.74	0.68
2:AA:1102:C:O2'	2:AA:1103:A:O5'	2.11	0.68
2:AA:1373:A:H2'	2:AA:1374:G:C8	2.29	0.68
2:AA:1508:A:H8	2:AA:1509:C:OP2	1.75	0.68
2:AA:1779:U:C5	2:AA:1784:A:C2	2.82	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1798:U:C4	2:AA:1819:A:C2	2.82	0.68
2:AA:1802:A:H61	2:AA:1822:G:H1'	1.57	0.68
2:AA:1823:G:H2'	2:AA:1824:G:O5'	1.94	0.68
2:AA:1890:A:H8	2:AA:1890:A:O5'	1.77	0.68
2:AA:2262:U:C2'	2:AA:2263:C:H5'	2.23	0.68
2:AA:2303:G:C2	2:AA:2304:G:C5	2.81	0.68
2:AA:2332:U:O2'	2:AA:2333:A:H5'	1.94	0.68
2:AA:2334:G:C6	16:AQ:10:MET:HE2	2.27	0.68
2:AA:2422:A:C2'	2:AA:2424:C:H5	2.06	0.68
2:AA:2511:U:C5	2:AA:2512:C:C5	2.82	0.68
2:AA:2588:G:N7	2:AA:2589:A:C8	2.62	0.68
2:AA:2698:U:H2'	2:AA:2699:C:C6	2.28	0.68
2:AA:2749:A:O4'	8:AH:62:ALA:HA	1.94	0.68
2:AA:2783:G:H2'	2:AA:2784:C:H6	1.58	0.68
3:AC:14:VAL:HG21	3:AC:32:LEU:HD11	1.75	0.68
3:AC:34:THR:O	3:AC:35:ALA:O	2.11	0.68
3:AC:36:LYS:O	3:AC:37:PHE:C	2.37	0.68
3:AC:76:ALA:CB	3:AC:94:VAL:HG22	2.18	0.68
3:AC:128:GLY:HA2	3:AC:137:LEU:CD2	2.24	0.68
3:AC:193:ILE:HD13	3:AC:226:PRO:O	1.94	0.68
5:AE:240:PRO:HB2	5:AE:243:PRO:HG3	1.75	0.68
6:AF:205:ARG:CG	6:AF:212:VAL:HG21	2.23	0.68
10:AK:69:LYS:O	10:AK:73:GLU:HG3	1.93	0.68
12:AM:31:LEU:O	12:AM:32:ASP:C	2.36	0.68
13:AN:35:ILE:CD1	13:AN:69:VAL:HG21	2.23	0.68
13:AN:64:ARG:CD	13:AN:81:GLU:OE1	2.32	0.68
15:AP:142:LYS:CG	15:AP:143:VAL:N	2.54	0.68
16:AQ:36:ALA:HB2	16:AQ:118:ILE:HD13	1.76	0.68
20:AU:51:LEU:HD13	20:AU:95:ASN:O	1.94	0.68
25:A1:98:ILE:CD1	26:A2:13:ARG:HE	2.03	0.68
26:A2:6:GLN:OE1	26:A2:10:LYS:HG2	1.94	0.68
29:A5:18:MET:O	29:A5:19:ARG:C	2.37	0.68
34:BA:21:G:C2	34:BA:915:A:N6	2.62	0.68
34:BA:64:G:H5'	34:BA:66:G:OP1	1.94	0.68
34:BA:143:A:H2	34:BA:220:G:H1	1.40	0.68
34:BA:258:G:C2	34:BA:259:G:N7	2.61	0.68
34:BA:644:G:O2'	34:BA:645:C:H5'	1.93	0.68
34:BA:720:C:H5	34:BA:721:G:H2'	1.56	0.68
34:BA:946:A:N6	34:BA:1236:A:C6	2.61	0.68
34:BA:1060:C:C5'	45:BM:51:ARG:HB3	2.24	0.68
34:BA:1350:A:H2'	34:BA:1351:U:H6	1.58	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1418:A:N7	34:BA:1482:G:N2	2.41	0.68
34:BA:1461:G:O2'	34:BA:1462:G:H5'	1.93	0.68
35:BB:8:U:C5	35:BB:13:C:C4	2.81	0.68
37:BE:97:TRP:NE1	37:BE:101:MET:SD	2.66	0.68
37:BE:163:PHE:HB2	37:BE:185:ILE:HD12	1.75	0.68
38:BF:12:LEU:HD13	38:BF:17:ASP:C	2.18	0.68
38:BF:182:ILE:CG1	38:BF:203:PHE:HD1	2.05	0.68
39:BG:92:VAL:HG12	39:BG:96:LEU:HD11	1.74	0.68
40:BH:41:VAL:HG21	40:BH:113:ALA:CA	2.24	0.68
40:BH:137:GLU:HA	40:BH:137:GLU:OE1	1.91	0.68
42:BJ:17:VAL:HG12	42:BJ:18:TYR:CD1	2.28	0.68
42:BJ:122:HIS:H	42:BJ:122:HIS:CD2	2.11	0.68
46:BN:46:GLY:H	46:BN:55:LYS:CD	2.06	0.68
48:BP:90:LEU:O	48:BP:93:ARG:CB	2.41	0.68
50:BR:60:VAL:O	50:BR:63:ARG:HB2	1.94	0.68
53:BU:43:PHE:O	53:BU:51:LEU:CD1	2.42	0.68
1:AB:59:A:H5'	7:AG:144:ARG:CD	2.23	0.68
1:AB:113:C:O2'	16:AQ:56:ASP:OD1	2.12	0.68
2:AA:154:G:N1	2:AA:155:C:H1'	2.07	0.68
2:AA:184:C:H2'	2:AA:185:U:C6	2.29	0.68
2:AA:270(Z):U:H2'	2:AA:270(Z):U:O2	1.93	0.68
2:AA:283:A:N7	2:AA:284:U:C5	2.62	0.68
2:AA:360:G:O2'	2:AA:361:G:O4'	2.10	0.68
2:AA:366:C:O2	2:AA:366:C:H2'	1.92	0.68
2:AA:371:A:C8	2:AA:424:G:OP1	2.47	0.68
2:AA:458:G:C2'	2:AA:469:G:N1	2.57	0.68
2:AA:729:G:H1'	2:AA:763:G:H4'	1.76	0.68
2:AA:860:U:C4	2:AA:917:A:N1	2.62	0.68
2:AA:1263:U:C6	2:AA:1264:G:N1	2.61	0.68
2:AA:1352:U:O2	2:AA:1352:U:C2'	2.41	0.68
2:AA:1550:C:H2'	2:AA:1551:C:C6	2.28	0.68
2:AA:1699:G:O6	2:AA:1763:G:O4'	2.12	0.68
2:AA:1778:U:C4	2:AA:1784:A:N3	2.61	0.68
2:AA:1779:U:H5	2:AA:1784:A:C2	2.12	0.68
2:AA:1907:G:C2	2:AA:1908:C:C4	2.82	0.68
2:AA:1937:A:C3'	2:AA:1938:A:C5'	2.71	0.68
2:AA:2093:G:N7	2:AA:2225:A:N7	2.42	0.68
2:AA:2111:C:H3'	2:AA:2117:A:H62	1.57	0.68
2:AA:2122:U:H2'	2:AA:2123:G:H5'	1.76	0.68
2:AA:2123:G:O6	2:AA:2175:C:C4	2.47	0.68
2:AA:2132:U:O5'	3:AC:5:LYS:HA	1.93	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2147:G:C2'	2:AA:2148:G:H5'	2.22	0.68
2:AA:2225:A:O2'	2:AA:2226:C:OP2	2.12	0.68
2:AA:2468:G:C2	2:AA:2481:G:N3	2.61	0.68
2:AA:2694:G:C6	2:AA:2695:C:C4	2.82	0.68
2:AA:2819:G:C3'	2:AA:2821:A:H62	2.04	0.68
3:AC:32:LEU:HD13	3:AC:220:PRO:CB	2.20	0.68
3:AC:75:LEU:CD1	3:AC:107:TRP:HH2	2.06	0.68
4:AD:131:LEU:C	4:AD:134:ILE:HB	2.19	0.68
5:AE:211:GLN:CG	5:AE:212:GLY:N	2.42	0.68
6:AF:163:HIS:O	6:AF:166:ILE:HB	1.94	0.68
8:AH:73:ASN:O	8:AH:74:MET:C	2.37	0.68
8:AH:148:ARG:HA	8:AH:161:ILE:HD12	1.75	0.68
13:AN:10:VAL:HG22	13:AN:16:ALA:HB3	1.76	0.68
15:AP:136:TRP:O	15:AP:137:ARG:C	2.36	0.68
15:AP:144:THR:OG1	15:AP:145:PRO:HD3	1.93	0.68
20:AU:51:LEU:HD12	20:AU:97:ARG:HG2	1.76	0.68
20:AU:101:LEU:HD21	20:AU:112:LEU:CG	2.23	0.68
21:AV:2:GLU:O	21:AV:3:LEU:O	2.12	0.68
21:AV:18:MET:HA	21:AV:35:ASP:CA	2.23	0.68
21:AV:60:GLU:O	21:AV:62:PHE:N	2.26	0.68
21:AV:71:MET:CB	21:AV:78:PRO:HD3	2.18	0.68
22:AW:45:ARG:HE	22:AW:49:LEU:HD11	1.59	0.68
25:A1:21:ALA:HA	25:A1:24:PHE:CE2	2.29	0.68
25:A1:37:GLN:O	25:A1:40:LEU:N	2.27	0.68
25:A1:63:GLN:O	25:A1:65:ILE:N	2.27	0.68
31:A7:24:THR:OG1	31:A7:25:LYS:N	2.26	0.68
34:BA:25:C:H4'	34:BA:524:G:H21	1.59	0.68
34:BA:101:A:H2'	34:BA:102:G:H8	1.58	0.68
34:BA:310:G:OP2	51:BS:27:LYS:HE2	1.93	0.68
34:BA:878:G:H2'	34:BA:879:C:C6	2.28	0.68
34:BA:954:G:N2	34:BA:1227:A:N6	2.41	0.68
34:BA:1054:C:O2'	34:BA:1055:A:H5''	1.94	0.68
35:BB:23:A:N1	35:BB:24:G:N1	2.42	0.68
35:BB:26:G:O6	35:BB:44:A:N1	2.27	0.68
35:BB:38:A:C2'	35:BB:39:U:H5'	2.24	0.68
37:BE:47:THR:C	37:BE:48:MET:SD	2.76	0.68
37:BE:132:LYS:HE2	37:BE:132:LYS:H	1.58	0.68
37:BE:142:LEU:HD23	37:BE:142:LEU:C	2.19	0.68
38:BF:132:ARG:O	38:BF:136:GLN:HG3	1.94	0.68
40:BH:11:ILE:CG2	40:BH:12:LEU:N	2.55	0.68
41:BI:91:VAL:HG12	41:BI:92:LYS:O	1.93	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:15:ASP:OD2	42:BJ:23:VAL:HG11	1.93	0.68
42:BJ:94:ARG:NH1	42:BJ:98:SER:OG	2.27	0.68
42:BJ:152:ALA:O	42:BJ:154:TYR:N	2.27	0.68
42:BJ:155:ARG:O	42:BJ:156:TRP:HB3	1.93	0.68
43:BK:40:ALA:HB2	43:BK:45:ILE:CG1	2.23	0.68
47:BO:33:ARG:O	47:BO:84:LEU:HG	1.94	0.68
48:BP:24:GLY:HA3	48:BP:66:LEU:CB	2.24	0.68
48:BP:77:ASN:O	48:BP:80:ARG:HD3	1.93	0.68
50:BR:43:LEU:O	50:BR:45:VAL:O	2.11	0.68
51:BS:39:TYR:CE2	51:BS:41:PRO:HG3	2.28	0.68
51:BS:56:ALA:O	51:BS:60:LEU:HG	1.94	0.68
52:BT:3:LYS:O	52:BT:4:LYS:O	2.12	0.68
55:BW:26:ASN:HD22	55:BW:27:LYS:N	1.92	0.68
56:BX:3:LYS:HD3	56:BX:14:TRP:CD1	2.29	0.68
2:AA:67:U:H2'	2:AA:68:G:C8	2.29	0.68
2:AA:253:C:C2'	2:AA:254:G:H5'	2.23	0.68
2:AA:412:A:N6	2:AA:2410:G:N2	2.42	0.68
2:AA:445:C:OP1	25:A1:2:PRO:HD2	1.94	0.68
2:AA:572:A:N7	2:AA:573:G:C4	2.62	0.68
2:AA:783:A:N1	2:AA:785:G:C1'	2.49	0.68
2:AA:1019:U:OP1	2:AA:1120:G:N2	2.22	0.68
2:AA:1127:A:H2'	2:AA:1128:A:OP2	1.94	0.68
2:AA:1181:C:O2'	2:AA:1182:A:H8	1.76	0.68
2:AA:1203:G:O2'	2:AA:1241:A:H2	1.70	0.68
2:AA:1343:G:N2	2:AA:1405:U:C2	2.62	0.68
2:AA:1378:A:O2'	2:AA:1379:A:OP1	2.12	0.68
2:AA:1426:G:H5''	2:AA:1427:A:H5''	1.75	0.68
2:AA:1444:G:H2'	2:AA:1445:C:H5	1.59	0.68
2:AA:1470:G:C2	2:AA:1520:U:N3	2.61	0.68
2:AA:1478:G:H1	2:AA:1515:C:H42	1.42	0.68
2:AA:1522:G:O2'	2:AA:1523:U:H5'	1.93	0.68
2:AA:1561:G:O2'	2:AA:1562:A:H5'	1.94	0.68
2:AA:1687:G:N2	2:AA:1688:U:C2	2.61	0.68
2:AA:1741:C:H2'	2:AA:1742:C:H5'	1.75	0.68
2:AA:1785:A:H5''	2:AA:1785:A:H8	1.58	0.68
2:AA:2186:G:N2	2:AA:2187:G:C6	2.62	0.68
2:AA:2252:G:H1	35:BC:74:C:N4	1.91	0.68
2:AA:2419:U:H5''	30:A6:24:THR:HG22	1.74	0.68
6:AF:223:LEU:HA	6:AF:225:PRO:HG2	1.74	0.68
8:AH:155:PRO:O	8:AH:156:TYR:C	2.36	0.68
8:AH:167:LEU:N	8:AH:167:LEU:CD2	2.56	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:60:ASP:N	9:AI:128:LYS:HE3	2.09	0.68
9:AJ:7:ILE:HG22	9:AJ:11:GLU:OE2	1.94	0.68
10:AK:1:MET:HE2	10:AK:23:ASP:CA	2.24	0.68
10:AK:126:TYR:CD1	10:AK:126:TYR:N	2.62	0.68
12:AM:10:VAL:HG11	12:AM:36:VAL:HG22	1.75	0.68
13:AN:71:ARG:O	13:AN:73:ASP:N	2.23	0.68
15:AP:64:ALA:HB1	15:AP:142:LYS:HG3	1.76	0.68
16:AQ:9:PRO:HA	16:AQ:13:ARG:NH1	2.09	0.68
16:AQ:81:ALA:CB	16:AQ:117:ALA:HB1	2.22	0.68
18:AS:88:ARG:HB3	18:AS:91:GLY:O	1.94	0.68
22:AW:43:PRO:HB2	22:AW:46:ILE:CG1	2.24	0.68
22:AW:53:ILE:HA	22:AW:56:ILE:HD12	1.74	0.68
25:A1:57:PHE:N	25:A1:60:LEU:HD12	2.09	0.68
26:A2:57:GLN:O	26:A2:58:ALA:HB2	1.92	0.68
28:A4:5:LEU:O	28:A4:7:PRO:N	2.27	0.68
30:A6:16:ALA:O	30:A6:18:THR:N	2.27	0.68
34:BA:109:A:H5'	34:BA:110:C:OP2	1.94	0.68
34:BA:160:A:N6	34:BA:161:A:C6	2.62	0.68
34:BA:509:A:C2'	34:BA:510:A:C8	2.70	0.68
34:BA:676:A:H2'	34:BA:677:U:H6	1.58	0.68
34:BA:878:G:H2'	34:BA:879:C:H6	1.59	0.68
34:BA:880:C:H2'	34:BA:881:G:O5'	1.93	0.68
34:BA:1085:U:O4'	34:BA:1094:G:C2	2.46	0.68
34:BA:1191:A:H5''	38:BF:4:LYS:NZ	2.09	0.68
34:BA:1198:G:O2'	45:BM:55:LYS:NZ	2.23	0.68
35:BB:66:A:H2'	35:BB:67:A:C8	2.29	0.68
37:BE:22:LYS:O	37:BE:24:TRP:HD1	1.75	0.68
39:BG:40:PRO:O	39:BG:44:GLY:HA3	1.93	0.68
39:BG:152:SER:O	39:BG:158:ILE:HG13	1.94	0.68
41:BI:11:ASN:OD1	41:BI:13:ASN:N	2.27	0.68
43:BK:90:GLY:O	52:BT:34:LYS:HB2	1.93	0.68
45:BM:8:LEU:HD22	45:BM:94:VAL:CG1	2.23	0.68
47:BO:53:ARG:HG2	47:BO:53:ARG:HH11	1.59	0.68
1:AB:40:U:O2'	1:AB:41:U:OP1	2.09	0.68
1:AB:68:C:C6	1:AB:69:G:C8	2.81	0.68
1:AB:78:A:O2'	1:AB:79:C:H5'	1.93	0.68
1:AB:83:G:N2	1:AB:84:C:C2	2.62	0.68
2:AA:532:A:H3'	2:AA:533:G:O4'	1.94	0.68
2:AA:609:A:C6	2:AA:609(A):G:O6	2.47	0.68
2:AA:620:G:O4'	2:AA:620:G:OP2	2.12	0.68
2:AA:866:A:N6	2:AA:914:C:C5	2.61	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1084:A:O2'	9:AI:26:GLU:HA	1.93	0.68
2:AA:1246:A:N6	2:AA:1247:A:C6	2.62	0.68
2:AA:1314:C:OP1	2:AA:1332:G:H5'	1.94	0.68
2:AA:1461:G:H2'	2:AA:1462:C:H6	1.57	0.68
2:AA:1528:A:N6	2:AA:1543:A:N6	2.22	0.68
2:AA:1602:U:C2'	2:AA:1603:A:O5'	2.38	0.68
2:AA:1798:U:O5'	2:AA:1798:U:H6	1.77	0.68
2:AA:2080:G:H2'	2:AA:2081:C:C6	2.29	0.68
2:AA:2090:G:C6	2:AA:2230:G:O6	2.47	0.68
2:AA:2189:U:O2'	2:AA:2190:G:C5'	2.41	0.68
2:AA:2259:G:C2	2:AA:2282:G:C6	2.82	0.68
2:AA:2275:C:O2	15:AP:103:ALA:CB	2.42	0.68
2:AA:2314:C:O2'	2:AA:2315:G:H5'	1.93	0.68
2:AA:2464:C:C2'	2:AA:2465:C:O5'	2.41	0.68
2:AA:2675:A:N1	2:AA:2732:G:N2	2.38	0.68
2:AA:2692:C:N4	2:AA:2717:G:H1	1.91	0.68
2:AA:2845:G:H2'	2:AA:2846:G:H8	1.59	0.68
4:AD:73:ILE:O	4:AD:116:MET:SD	2.52	0.68
5:AE:190:ASN:C	5:AE:193:PHE:N	2.45	0.68
5:AE:205:THR:HA	5:AE:261:ARG:HD2	1.74	0.68
6:AF:88:SER:O	6:AF:89:ALA:CB	2.42	0.68
8:AH:47:ASN:ND2	8:AH:48:VAL:HG22	2.08	0.68
8:AH:82:TYR:CE2	8:AH:137:LYS:HB3	2.30	0.68
8:AH:82:TYR:CZ	8:AH:137:LYS:HB3	2.29	0.68
8:AH:98:GLN:CD	8:AH:103:VAL:HG21	2.17	0.68
9:AI:19:ALA:HB1	9:AJ:45:ALA:C	2.19	0.68
9:AI:74:ILE:O	9:AI:78:ARG:HG3	1.94	0.68
11:AL:106:GLU:O	11:AL:110:LYS:HG3	1.92	0.68
13:AN:68:GLY:CA	13:AN:78:ARG:NE	2.22	0.68
14:AO:76:LEU:HB3	14:AO:81:VAL:HG21	1.76	0.68
15:AP:89:PRO:C	15:AP:90:PHE:CD1	2.72	0.68
16:AQ:19:ASP:C	16:AQ:21:HIS:H	1.99	0.68
18:AS:88:ARG:HA	18:AS:93:ALA:HA	1.74	0.68
19:AT:16:ASN:HB2	19:AT:20:PHE:CE2	2.29	0.68
20:AU:65:VAL:HA	20:AU:72:ILE:HD13	1.74	0.68
21:AV:6:LYS:NZ	21:AV:30:VAL:HG11	2.08	0.68
23:AX:41:PRO:HA	23:AX:44:ARG:HB3	1.75	0.68
24:A0:99:LYS:HB3	29:A5:44:HIS:NE2	2.08	0.68
25:A1:115:ASN:O	25:A1:116:ALA:C	2.36	0.68
34:BA:44:G:H2'	34:BA:45:U:O5'	1.92	0.68
34:BA:129(A):G:H4'	34:BA:130:A:O5'	1.93	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:309:G:O2'	34:BA:310:G:C5'	2.42	0.68
34:BA:437:U:H2'	34:BA:438:G:H5'	1.73	0.68
34:BA:772:U:O2'	34:BA:773:G:C5'	2.42	0.68
34:BA:818:G:N2	34:BA:820:U:N3	2.42	0.68
34:BA:1048:G:H1	34:BA:1209:C:H42	0.73	0.68
34:BA:1239:A:N6	34:BA:1299:A:N6	2.41	0.68
34:BA:1314:C:N4	54:BV:4:SER:CB	2.57	0.68
34:BA:1343:G:C4'	44:BL:122:ALA:HB3	2.22	0.68
34:BA:1371:G:H5''	44:BL:68:GLY:C	2.18	0.68
35:BB:66:A:C3'	35:BB:67:A:C8	2.65	0.68
35:BC:17:U:H5''	35:BC:18:G:H3'	1.77	0.68
36:B1:36:A:H8	36:B1:36:A:O5'	1.76	0.68
36:B1:43:C:OP1	53:BU:19:LYS:NZ	2.22	0.68
36:B1:52:A:H2'	36:B1:53:G:C8	2.25	0.68
37:BE:88:ALA:HB2	37:BE:219:VAL:CG2	2.14	0.68
38:BF:58:GLU:H	38:BF:65:ALA:HB3	1.59	0.68
39:BG:130:GLY:HA3	39:BG:131:ARG:NH1	2.09	0.68
39:BG:198:VAL:O	39:BG:199:ASN:HB3	1.93	0.68
41:BI:98:LEU:HD22	41:BI:101:ALA:HB2	1.74	0.68
42:BJ:22:LEU:HD23	42:BJ:63:LYS:HZ2	1.59	0.68
44:BL:37:PHE:N	44:BL:37:PHE:HD2	1.91	0.68
46:BN:12:ARG:HB3	46:BN:75:TYR:CD2	2.29	0.68
46:BN:23:ALA:HB2	46:BN:28:THR:HG23	1.76	0.68
46:BN:48:ILE:HD11	46:BN:64:ALA:HA	1.76	0.68
47:BO:101:VAL:O	47:BO:104:VAL:HG23	1.94	0.68
48:BP:14:ARG:HA	48:BP:44:ARG:CA	2.19	0.68
1:AB:33:G:H2'	1:AB:34:U:H6	1.56	0.67
2:AA:83:G:O2'	2:AA:84:A:O4'	2.13	0.67
2:AA:139:G:H3'	2:AA:141(A):C:C1'	2.22	0.67
2:AA:270(P):C:OP2	10:AK:45:LYS:HD3	1.93	0.67
2:AA:270(X):G:C2	2:AA:270(Y):G:H4'	2.29	0.67
2:AA:297:C:H3'	2:AA:298:G:C8	2.28	0.67
2:AA:319:C:C2	2:AA:320:A:C8	2.82	0.67
2:AA:343:C:C2'	2:AA:344:G:C5'	2.71	0.67
2:AA:380:U:H2'	2:AA:381:G:C5'	2.23	0.67
2:AA:405:U:H5''	2:AA:406:G:H5'	1.76	0.67
2:AA:440:G:H2'	2:AA:441:U:C6	2.30	0.67
2:AA:715:G:H5'	2:AA:715:G:C8	2.29	0.67
2:AA:952:G:H21	2:AA:2267:A:H62	1.42	0.67
2:AA:1012:U:H2'	2:AA:1142:U:C4	2.30	0.67
2:AA:1109:C:C5	2:AA:1110:G:C2	2.82	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1156:A:C2	25:A1:51:ARG:NH2	2.62	0.67
2:AA:1229:G:C6	2:AA:1230:C:O2	2.47	0.67
2:AA:1498:C:O2	2:AA:1499:C:C5	2.47	0.67
2:AA:1524:G:H2'	2:AA:1525:G:O4'	1.94	0.67
2:AA:1534:G:C2	2:AA:1538:G:H1'	2.29	0.67
2:AA:1655:A:H4'	5:AE:211:GLN:CA	2.23	0.67
2:AA:1894:C:HO2'	2:AA:1895:C:C5'	2.07	0.67
2:AA:1977:A:C2	2:AA:1978:A:C4	2.82	0.67
2:AA:2058:A:C2	2:AA:2059:A:C5	2.82	0.67
2:AA:2343:C:O2'	2:AA:2344:U:C5'	2.35	0.67
2:AA:2346:A:O4'	2:AA:2383:G:C1'	2.42	0.67
2:AA:2558:C:N3	2:AA:2559:C:C5	2.63	0.67
2:AA:2769:C:H2'	2:AA:2770:G:H5'	1.76	0.67
3:AC:124:GLY:CA	3:AC:137:LEU:HD11	2.18	0.67
4:AD:85:ASN:C	4:AD:86:ARG:NE	2.53	0.67
5:AE:42:ALA:H	5:AE:189:MET:CE	2.06	0.67
5:AE:214:VAL:HG21	5:AE:221:LYS:HZ1	1.58	0.67
6:AF:28:SER:HA	6:AF:31:ILE:CG1	2.24	0.67
8:AH:43:THR:OG1	8:AH:50:THR:N	2.27	0.67
9:AI:72:GLN:HA	9:AI:75:LYS:HD2	1.74	0.67
9:AJ:40:ALA:O	9:AJ:43:PRO:HD2	1.94	0.67
10:AK:62:LEU:HD23	10:AK:134:HIS:NE2	2.09	0.67
11:AL:55:PRO:HG3	11:AL:74:PRO:HD3	1.76	0.67
12:AM:53:ILE:HG23	12:AM:135:ILE:HG13	1.75	0.67
12:AM:78:ILE:HG22	12:AM:79:PHE:HD1	1.59	0.67
13:AN:106:LEU:HD23	13:AN:106:LEU:H	1.57	0.67
13:AN:112:MET:O	13:AN:115:ILE:N	2.27	0.67
20:AU:30:ASP:O	20:AU:34:GLU:HG3	1.94	0.67
21:AV:154:LEU:HD23	21:AV:154:LEU:C	2.20	0.67
22:AW:3:LEU:O	22:AW:4:HIS:CB	2.42	0.67
22:AW:20:LEU:HA	22:AW:23:LEU:CG	2.23	0.67
24:A0:47:PHE:CZ	24:A0:51:LEU:HD11	2.29	0.67
25:A1:99:ALA:HA	25:A1:106:PHE:HB2	1.74	0.67
28:A4:46:GLU:C	28:A4:47:GLU:HG3	2.17	0.67
34:BA:92:C:C2	34:BA:93:G:C8	2.83	0.67
34:BA:101:A:C2'	34:BA:102:G:H5'	2.24	0.67
34:BA:486:U:H2'	34:BA:486:U:O2	1.94	0.67
34:BA:654:G:N2	34:BA:753:A:H1'	2.09	0.67
34:BA:1202:G:H1'	49:BQ:42:ILE:CD1	2.23	0.67
35:BB:59:U:C2	35:BB:60:C:C2	2.82	0.67
37:BE:96:ARG:N	37:BE:96:ARG:HD2	2.10	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:73:PRO:HG2	38:BF:74:GLY:H	1.58	0.67
38:BF:142:MET:HB3	38:BF:170:GLN:NE2	2.09	0.67
38:BF:156:ARG:O	38:BF:193:TYR:HE1	1.77	0.67
39:BG:20:TYR:O	39:BG:26:CYS:SG	2.52	0.67
39:BG:24:GLU:HG2	39:BG:25:ARG:N	2.07	0.67
39:BG:128:VAL:HG12	39:BG:129:ASN:O	1.94	0.67
40:BH:45:PHE:CE1	40:BH:47:LYS:HE3	2.29	0.67
40:BH:65:ASN:ND2	40:BH:65:ASN:O	2.27	0.67
40:BH:100:VAL:HG11	40:BH:107:ARG:CG	2.22	0.67
40:BH:105:VAL:HG11	40:BH:131:ILE:CG2	2.23	0.67
40:BH:105:VAL:HG12	40:BH:106:PRO:HD3	1.76	0.67
42:BJ:17:VAL:HG12	42:BJ:18:TYR:CE1	2.28	0.67
42:BJ:93:PRO:HG2	42:BJ:94:ARG:H	1.58	0.67
43:BK:91:ARG:HG2	52:BT:34:LYS:N	2.06	0.67
47:BO:58:VAL:O	47:BO:65:GLU:HA	1.93	0.67
52:BT:80:GLY:O	52:BT:81:ARG:C	2.35	0.67
52:BT:81:ARG:HG2	52:BT:84:LEU:CG	2.24	0.67
53:BU:63:GLN:HA	53:BU:66:LEU:CG	2.24	0.67
55:BW:53:LEU:HD21	55:BW:92:LEU:CD1	2.24	0.67
1:AB:88:C:H3'	1:AB:88:C:H6	1.60	0.67
2:AA:6:A:O2'	2:AA:7:G:H5'	1.94	0.67
2:AA:176:G:N3	2:AA:177:G:H1'	2.09	0.67
2:AA:278:A:O2'	2:AA:279:C:H5'	1.93	0.67
2:AA:687:C:H5''	31:A7:4:THR:HG22	1.77	0.67
2:AA:738:G:H2'	2:AA:739:G:C1'	2.24	0.67
2:AA:817:C:C2'	2:AA:818:G:O4'	2.36	0.67
2:AA:827:U:OP2	2:AA:2429:G:OP2	2.11	0.67
2:AA:850:C:N4	2:AA:928:G:H1	1.90	0.67
2:AA:1014:U:C2'	2:AA:1015:G:C5'	2.72	0.67
2:AA:1092:C:H3'	2:AA:1092:C:C6	2.29	0.67
2:AA:1116:C:OP2	2:AA:1116:C:C6	2.47	0.67
2:AA:1342:A:C4	2:AA:1345:C:N4	2.62	0.67
2:AA:1359:A:C2'	2:AA:1360:A:H5'	2.24	0.67
2:AA:1407:C:O2'	2:AA:1408:C:C5'	2.42	0.67
2:AA:1417:C:N4	2:AA:1581:G:N2	2.32	0.67
2:AA:1568:G:H5''	4:AD:60:GLN:HG2	1.76	0.67
2:AA:1603:A:C2	2:AA:1604:C:C5	2.82	0.67
2:AA:1682:G:H2'	2:AA:1683:C:C6	2.29	0.67
2:AA:1795:C:H2'	2:AA:1796:U:H5'	0.82	0.67
2:AA:1853:A:H1'	2:AA:2234:G:H5'	1.76	0.67
2:AA:1936:A:C1'	2:AA:1940:U:C4	2.77	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2043:C:C2'	2:AA:2044:C:O5'	2.42	0.67
2:AA:2047:U:C2	2:AA:2048:G:N7	2.63	0.67
2:AA:2057:A:C4'	29:A5:8:LYS:NZ	2.57	0.67
2:AA:2132:U:C2'	2:AA:2133:G:H5''	2.23	0.67
2:AA:2324:C:O2	2:AA:2385:C:C5	2.47	0.67
2:AA:2391:G:C2'	2:AA:2392:A:OP2	2.41	0.67
2:AA:2474:C:O2'	2:AA:2475:C:H5'	1.95	0.67
2:AA:2572:A:O5'	2:AA:2574:G:H4'	1.94	0.67
2:AA:2712:U:C2'	2:AA:712(A):A:C5'	2.72	0.67
2:AA:2712:U:H5''	2:AA:2714:G:O5'	1.94	0.67
3:AC:18:LYS:HE3	3:AC:20:TYR:CD2	2.29	0.67
4:AD:141:HIS:ND1	4:AD:141:HIS:N	2.40	0.67
4:AD:145:LEU:N	4:AD:152:GLN:HB2	2.08	0.67
4:AD:174:ARG:HE	4:AD:180:VAL:HG22	1.57	0.67
5:AE:208:LYS:N	5:AE:257:GLY:HA3	2.08	0.67
5:AE:221:LYS:NZ	5:AE:233:ARG:CG	2.55	0.67
5:AE:221:LYS:C	5:AE:222:ARG:HD2	2.19	0.67
6:AF:61:PHE:O	6:AF:65:ARG:CZ	2.42	0.67
7:AG:21:VAL:HG12	7:AG:132:VAL:HG23	1.74	0.67
9:AI:40:ALA:O	9:AI:43:PRO:HD2	1.94	0.67
9:AI:62:VAL:HG22	9:AI:101:VAL:HA	1.77	0.67
9:AJ:13:LEU:HB3	9:AJ:17:GLU:HB3	1.75	0.67
9:AJ:60:ASP:OD2	9:AJ:101:VAL:HG11	1.94	0.67
10:AK:47:LEU:HG	10:AK:48:GLU:N	2.08	0.67
12:AM:60:ARG:O	12:AM:71:TYR:CG	2.47	0.67
14:AO:53:ARG:HD2	14:AO:53:ARG:N	2.03	0.67
15:AP:29:ALA:HB3	15:AP:66:ASN:HD21	1.59	0.67
15:AP:86:ARG:NH1	15:AP:120:HIS:CD2	2.62	0.67
16:AQ:94:GLU:HG3	16:AQ:95:ALA:N	2.08	0.67
17:AR:50:GLU:C	17:AR:55:ALA:HB3	2.18	0.67
20:AU:81:LYS:HD2	20:AU:83:ASP:H	1.59	0.67
21:AV:125:PRO:HB2	21:AV:157:GLY:HA3	1.76	0.67
24:A0:37:THR:CG2	24:A0:40:LYS:HD2	2.24	0.67
26:A2:59:GLU:HG2	26:A2:100:GLY:N	2.06	0.67
28:A4:57:ASP:O	28:A4:61:LYS:HG3	1.94	0.67
34:BA:429:U:H2'	39:BG:22:LYS:NZ	2.09	0.67
34:BA:736:C:OP1	53:BU:72:ARG:CZ	2.41	0.67
34:BA:789:U:C2	34:BA:791:G:OP2	2.47	0.67
34:BA:897:C:H2'	34:BA:898:G:H8	1.60	0.67
34:BA:927:G:C6	34:BA:1391:U:N3	2.62	0.67
34:BA:1251:A:C2'	34:BA:1252:A:C8	2.73	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:42:G:C5'	35:BB:43:G:P	2.83	0.67
35:BC:47:U:C2	35:BC:50:U:OP1	2.47	0.67
37:BE:130:ARG:HD3	37:BE:131:PRO:CD	2.23	0.67
38:BF:12:LEU:CD2	38:BF:17:ASP:HA	2.23	0.67
38:BF:12:LEU:HB3	38:BF:18:TRP:CZ3	2.30	0.67
38:BF:58:GLU:O	38:BF:59:ARG:HB2	1.92	0.67
38:BF:84:ILE:HG13	38:BF:101:LEU:CD1	2.25	0.67
38:BF:92:ALA:O	38:BF:95:THR:O	2.13	0.67
39:BG:88:VAL:O	39:BG:92:VAL:HG23	1.94	0.67
39:BG:148:VAL:HG11	39:BG:158:ILE:HD12	1.76	0.67
40:BH:94:ALA:CB	40:BH:118:ILE:HA	2.23	0.67
40:BH:122:GLU:O	40:BH:123:LEU:CD2	2.38	0.67
42:BJ:94:ARG:NH1	42:BJ:94:ARG:O	2.26	0.67
43:BK:10:LEU:CD2	43:BK:135:CYS:SG	2.83	0.67
43:BK:11:THR:C	43:BK:13:ILE:N	2.47	0.67
43:BK:72:PRO:O	43:BK:73:ASP:HB3	1.93	0.67
44:BL:110:GLU:OE2	44:BL:113:LYS:NZ	2.26	0.67
48:BP:55:ARG:NH2	48:BP:56:LEU:HD21	2.09	0.67
50:BR:38:ARG:NH1	50:BR:38:ARG:CB	2.46	0.67
52:BT:31:LEU:HG	52:BT:32:TYR:CD2	2.28	0.67
52:BT:53:LEU:HD12	52:BT:54:GLY:N	2.08	0.67
54:BV:22:LEU:HD23	54:BV:25:LYS:CD	2.23	0.67
55:BW:56:MET:SD	55:BW:88:VAL:HG11	2.35	0.67
55:BW:73:HIS:H	55:BW:76:ALA:CB	2.07	0.67
1:AB:103:U:C6	1:AB:103:U:C3'	2.76	0.67
2:AA:64:A:O2'	2:AA:65:C:H5'	1.95	0.67
2:AA:184:C:O3'	2:AA:217:G:N2	2.28	0.67
2:AA:211:A:O2'	2:AA:212:G:H5'	1.94	0.67
2:AA:529:A:O2'	2:AA:530:G:O5'	2.12	0.67
2:AA:575:A:C2'	2:AA:576:U:H5'	2.24	0.67
2:AA:647:G:H2'	2:AA:648:G:H8	1.59	0.67
2:AA:650:C:N3	2:AA:651:G:C2	2.63	0.67
2:AA:721:C:H2'	2:AA:722:A:H8	1.59	0.67
2:AA:799:G:C6	2:AA:800:A:N1	2.62	0.67
2:AA:1122:G:C2	2:AA:1123:C:C5	2.82	0.67
2:AA:1305:C:O2'	2:AA:1306:C:O5'	2.11	0.67
2:AA:1686:C:N3	2:AA:1702:G:O6	2.27	0.67
2:AA:1826:G:O5'	2:AA:1826:G:H8	1.77	0.67
2:AA:1917:U:C6	2:AA:1918:A:C8	2.82	0.67
2:AA:2321:G:H2'	2:AA:2321:G:N3	2.09	0.67
2:AA:2347:C:O2'	30:A6:40:TYR:CE2	2.48	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2461:C:O2'	2:AA:2462:U:H5'	1.93	0.67
2:AA:2899:G:O2'	2:AA:2900:A:O5'	2.12	0.67
4:AD:95:TYR:CB	4:AD:99:GLU:HG3	2.24	0.67
4:AD:210:LYS:HA	4:AD:213:LYS:CE	2.24	0.67
6:AF:55:ARG:CA	6:AF:79:ARG:HE	2.06	0.67
6:AF:55:ARG:CA	6:AF:79:ARG:NH2	2.58	0.67
7:AG:100:ASP:C	7:AG:102:GLY:H	2.02	0.67
9:AI:22:VAL:HG22	9:AI:41:ALA:HB3	1.76	0.67
9:AJ:62:VAL:HG13	9:AJ:100:ALA:O	1.94	0.67
11:AL:93:LYS:H	11:AL:96:ILE:HG13	1.59	0.67
12:AM:40:ASN:O	12:AM:41:ALA:C	2.37	0.67
13:AN:52:VAL:O	13:AN:53:LYS:HB2	1.93	0.67
15:AP:26:LYS:NZ	15:AP:90:PHE:HE1	1.86	0.67
19:AT:18:MET:HE1	19:AT:25:GLN:HB2	1.75	0.67
20:AU:42:VAL:CG1	20:AU:43:ASN:H	1.87	0.67
21:AV:6:LYS:H	21:AV:7:PRO:HD3	1.59	0.67
22:AW:9:ARG:NH2	22:AW:59:ILE:HG13	2.10	0.67
23:AX:12:PRO:HG3	23:AX:20:LYS:NZ	2.09	0.67
23:AX:41:PRO:O	23:AX:44:ARG:HB3	1.93	0.67
24:A0:59:ASP:O	24:A0:63:ARG:HG3	1.93	0.67
25:A1:113:SER:O	25:A1:116:ALA:N	2.27	0.67
27:A3:25:LYS:C	27:A3:26:PHE:HD1	1.99	0.67
27:A3:69:PHE:C	27:A3:70:ILE:HD13	2.20	0.67
30:A6:48:VAL:O	30:A6:50:PHE:CD1	2.48	0.67
34:BA:21:G:N2	34:BA:915:A:H62	1.91	0.67
34:BA:98:U:O2'	34:BA:99:C:H5'	1.94	0.67
34:BA:124:G:OP1	34:BA:310:G:N2	2.28	0.67
34:BA:280:C:O2	52:BT:38:ARG:HG3	1.94	0.67
34:BA:283:C:C2	34:BA:284:G:C8	2.82	0.67
34:BA:286:G:C5	34:BA:287:U:C5	2.82	0.67
34:BA:721:G:OP1	34:BA:721:G:H8	1.76	0.67
34:BA:792:A:O2'	34:BA:794:A:N7	2.26	0.67
34:BA:1097:C:O2'	34:BA:1098:C:H5'	1.95	0.67
34:BA:1126:U:C2	34:BA:1127:G:C8	2.82	0.67
34:BA:1133:G:H2'	34:BA:1134:G:O4'	1.93	0.67
34:BA:1346:A:C8	34:BA:1348:U:C4	2.82	0.67
35:BB:67:A:C2	35:BB:68:U:C4	2.83	0.67
37:BE:212:GLN:O	37:BE:213:LEU:C	2.37	0.67
39:BG:64:LEU:HA	39:BG:67:ILE:HD12	1.74	0.67
40:BH:137:GLU:OE1	40:BH:140:ARG:HB2	1.94	0.67
42:BJ:37:ASN:ND2	42:BJ:38:LEU:N	2.39	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:127:ALA:O	42:BJ:128:ALA:C	2.37	0.67
45:BM:78:ASN:O	45:BM:79:ARG:C	2.37	0.67
47:BO:117:ARG:HE	47:BO:123:LYS:C	2.01	0.67
48:BP:10:PRO:HB2	48:BP:18:ALA:HA	1.76	0.67
51:BS:9:PHE:CE1	51:BS:18:ARG:NE	2.62	0.67
2:AA:49:A:C6	2:AA:177:G:C2	2.82	0.67
2:AA:151:C:N4	2:AA:176:G:O6	2.27	0.67
2:AA:353:G:C2'	2:AA:354:G:O5'	2.42	0.67
2:AA:530:G:H1	2:AA:2021:C:C3'	2.02	0.67
2:AA:534:U:O2'	25:A1:49:ASP:OD2	2.12	0.67
2:AA:735:A:H8	2:AA:735:A:O5'	1.76	0.67
2:AA:972:G:N7	2:AA:1188:U:C4	2.61	0.67
2:AA:1047:G:H2'	2:AA:1110:G:N1	2.09	0.67
2:AA:1166:C:N3	2:AA:1183:G:C2	2.62	0.67
2:AA:1458:C:H4'	2:AA:1459:G:N9	2.09	0.67
2:AA:1515:C:C6	2:AA:1515:C:OP1	2.46	0.67
2:AA:1529:A:H3'	2:AA:1530:G:O4'	1.94	0.67
2:AA:1567:A:C5	4:AD:84:PRO:HB3	2.30	0.67
2:AA:1614:A:N6	18:AS:88:ARG:H	1.92	0.67
2:AA:1665:A:C2	2:AA:1666:G:C8	2.82	0.67
2:AA:1675:C:C5	5:AE:225:LYS:HG3	2.29	0.67
2:AA:1700:A:H2'	2:AA:1701:A:C5'	2.23	0.67
2:AA:1843:C:O2'	2:AA:1844:C:H5'	1.95	0.67
2:AA:2105:C:H2'	2:AA:2106:G:H8	1.59	0.67
2:AA:2330:G:N1	2:AA:2385:C:N4	2.42	0.67
2:AA:2579:C:C2'	2:AA:2580:U:H5'	2.24	0.67
3:AC:211:SER:HA	3:AC:223:ARG:NH2	2.10	0.67
3:AC:211:SER:HB2	3:AC:213:TYR:CZ	2.29	0.67
5:AE:205:THR:HG22	5:AE:261:ARG:NE	2.09	0.67
6:AF:147:LEU:CD1	6:AF:156:LEU:HD11	2.24	0.67
9:AJ:80:ILE:HD13	9:AJ:114:ILE:HG23	1.77	0.67
10:AK:7:LYS:CG	10:AK:12:LYS:HZ2	2.05	0.67
10:AK:25:TYR:HD2	10:AK:25:TYR:H	1.42	0.67
11:AL:93:LYS:HZ2	21:AV:108:VAL:HG12	1.60	0.67
13:AN:77:ILE:HD11	13:AN:79:PHE:HE2	1.60	0.67
16:AQ:94:GLU:HG3	16:AQ:95:ALA:H	1.60	0.67
18:AS:17:VAL:HG11	18:AS:76:VAL:HG21	1.76	0.67
19:AT:45:TYR:OH	19:AT:73:ASP:O	2.11	0.67
21:AV:86:VAL:CG1	21:AV:91:PRO:HG3	2.24	0.67
24:A0:96:ARG:CD	24:A0:98:LEU:HD11	2.24	0.67
24:A0:97:VAL:CG1	24:A0:114:VAL:HG22	2.16	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:105:ARG:C	24:A0:107:ASP:N	2.52	0.67
25:A1:64:ARG:NH1	25:A1:101:ARG:HH21	1.91	0.67
27:A3:25:LYS:NZ	27:A3:57:HIS:CE1	2.62	0.67
28:A4:68:ARG:HD3	28:A4:72:LYS:CE	2.23	0.67
33:A9:14:CYS:SG	33:A9:32:HIS:CG	2.87	0.67
34:BA:108:G:O6	55:BW:15:ARG:HD2	1.95	0.67
34:BA:132:C:C2	34:BA:231:G:N2	2.62	0.67
34:BA:190(F):G:OP1	34:BA:190(F):G:C8	2.47	0.67
34:BA:199:G:O2'	34:BA:200:G:H5'	1.93	0.67
34:BA:780:A:H8	34:BA:780:A:H3'	1.60	0.67
34:BA:953:G:H1	34:BA:1228:C:H42	1.40	0.67
34:BA:1015:A:H2'	34:BA:1016:A:H8	1.59	0.67
34:BA:1224:G:C2'	34:BA:1225:A:OP1	2.42	0.67
34:BA:1347:G:H1'	34:BA:1348:U:H5	1.58	0.67
35:BB:15:G:C2'	35:BB:16:U:OP2	2.36	0.67
35:BB:69:U:H2'	35:BB:70:C:H6	1.60	0.67
37:BE:163:PHE:CZ	37:BE:201:ILE:HG12	2.29	0.67
39:BG:134:ASP:O	39:BG:136:PRO:HD3	1.95	0.67
41:BI:30:LEU:H	41:BI:30:LEU:HD12	1.59	0.67
42:BJ:72:ARG:NH1	42:BJ:138:LYS:NZ	2.34	0.67
45:BM:58:ASP:O	45:BM:60:ARG:N	2.26	0.67
46:BN:18:ARG:HH11	46:BN:18:ARG:HG2	1.60	0.67
50:BR:18:PHE:O	50:BR:20:GLY:N	2.28	0.67
50:BR:64:ARG:HG2	50:BR:65:ARG:H	1.59	0.67
50:BR:76:GLU:HA	50:BR:79:ARG:HH12	1.58	0.67
51:BS:30:GLY:O	51:BS:31:LYS:C	2.38	0.67
52:BT:18:THR:HG23	52:BT:69:LYS:CE	2.25	0.67
53:BU:47:THR:O	53:BU:82:THR:HA	1.94	0.67
53:BU:66:LEU:HD12	53:BU:67:ALA:H	1.59	0.67
54:BV:5:LEU:CD1	54:BV:9:VAL:HG22	2.24	0.67
1:AB:91:C:O2'	1:AB:92:G:H5'	1.94	0.67
2:AA:182:A:C2	2:AA:183:C:C2	2.82	0.67
2:AA:342:G:H2'	2:AA:343:C:H6	1.56	0.67
2:AA:531:C:N4	25:A1:38:THR:CB	2.57	0.67
2:AA:734:A:C2	2:AA:735:A:H1'	2.28	0.67
2:AA:983:A:C8	2:AA:984:A:C1'	2.63	0.67
2:AA:1670:C:H2'	2:AA:1671:U:O4'	1.94	0.67
2:AA:1860:G:O2'	3:AC:205:LYS:HD3	1.93	0.67
2:AA:1967:C:N4	2:AA:1968:G:C2	2.63	0.67
2:AA:2004:G:H2'	2:AA:2005:A:O4'	1.94	0.67
2:AA:2123:G:O2'	3:AC:172:HIS:CE1	2.47	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2224:G:O2'	2:AA:2225:A:H5'	1.95	0.67
2:AA:2239:G:H2'	2:AA:2240:C:C6	2.29	0.67
2:AA:2317:C:H2'	2:AA:2318:G:H8	1.59	0.67
2:AA:2352:A:N7	2:AA:2366:A:C6	2.63	0.67
2:AA:2359:C:C4'	32:A8:52:LYS:HZ1	2.04	0.67
2:AA:2362:G:OP1	32:A8:29:LYS:HE2	1.95	0.67
2:AA:2429:G:C5'	2:AA:2430:A:OP2	2.41	0.67
2:AA:2486:G:N1	2:AA:2487:G:N7	2.43	0.67
2:AA:2513:G:H1	2:AA:2571:C:H42	1.42	0.67
2:AA:2680:C:C5'	5:AE:302:GLY:HA2	2.25	0.67
5:AE:45:LYS:HD2	5:AE:304:ASP:O	1.94	0.67
5:AE:200:ASP:CA	5:AE:266:LYS:HD2	2.24	0.67
5:AE:202:ALA:HA	5:AE:262:THR:CB	2.18	0.67
5:AE:263:GLU:H	5:AE:266:LYS:HZ2	1.43	0.67
6:AF:213:ALA:CB	6:AF:218:VAL:HG13	2.24	0.67
6:AF:224:ALA:N	6:AF:225:PRO:CD	2.53	0.67
9:AI:18:LEU:HD11	9:AI:44:VAL:HG12	1.75	0.67
9:AJ:74:ILE:O	9:AJ:78:ARG:HG3	1.94	0.67
10:AK:10:LYS:CG	10:AK:11:GLY:H	2.08	0.67
11:AL:73:PRO:HG2	11:AL:78:LEU:HD11	1.76	0.67
15:AP:48:ASN:HD22	15:AP:122:PHE:HB2	1.58	0.67
16:AQ:21:HIS:O	16:AQ:22:GLN:C	2.36	0.67
20:AU:101:LEU:HD13	20:AU:113:GLU:OE1	1.94	0.67
24:A0:54:LEU:N	24:A0:54:LEU:CD1	2.58	0.67
24:A0:97:VAL:HA	24:A0:114:VAL:HG13	1.74	0.67
25:A1:55:ARG:CG	25:A1:58:ARG:HH21	2.07	0.67
27:A3:14:ARG:HD2	27:A3:14:ARG:O	1.94	0.67
27:A3:66:LYS:N	27:A3:66:LYS:CD	2.58	0.67
27:A3:68:VAL:HB	27:A3:72:LYS:HG3	1.76	0.67
28:A4:4:ASP:OD1	28:A4:11:PRO:HG3	1.93	0.67
28:A4:54:GLY:O	28:A4:55:ARG:CG	2.42	0.67
30:A6:42:PRO:CB	30:A6:44:ALA:HB3	2.25	0.67
31:A7:13:ALA:O	31:A7:16:HIS:O	2.12	0.67
32:A8:26:LYS:HG3	32:A8:45:GLY:H	1.59	0.67
32:A8:26:LYS:CD	32:A8:45:GLY:H	2.08	0.67
34:BA:39:G:C6	34:BA:40:C:C5	2.81	0.67
34:BA:186:C:O2'	34:BA:187:C:H5'	1.94	0.67
34:BA:235:C:H2'	34:BA:236:G:C8	2.27	0.67
34:BA:407:G:O2'	39:BG:116:GLN:HG3	1.94	0.67
34:BA:479:C:O5'	34:BA:479:C:C6	2.39	0.67
34:BA:580:U:H2'	34:BA:581:G:H8	1.58	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:581:G:H2'	34:BA:582:U:OP2	1.94	0.67
34:BA:620:C:C6	34:BA:621:A:C8	2.83	0.67
34:BA:668:G:H1'	50:BR:46:HIS:CD2	2.28	0.67
34:BA:688:G:O2'	34:BA:689:C:H5'	1.95	0.67
34:BA:761:G:O2'	52:BT:104:LYS:HA	1.93	0.67
34:BA:1020:U:H2'	34:BA:1021:G:C8	2.29	0.67
34:BA:1032:G:H2'	34:BA:1033:G:O4'	1.95	0.67
34:BA:1045:C:N3	34:BA:1046:A:C8	2.63	0.67
34:BA:1087:G:H2'	34:BA:1088:G:C8	2.19	0.67
34:BA:1098:C:H2'	34:BA:1099:G:H5'	1.76	0.67
34:BA:1111:A:H2'	34:BA:1112:C:C6	2.29	0.67
34:BA:1128:C:H2'	34:BA:1130:A:N7	2.10	0.67
34:BA:1363:A:OP1	34:BA:1363:A:H8	1.77	0.67
35:BB:38:A:H2'	35:BB:39:U:H5'	1.76	0.67
37:BE:20:GLU:HG3	37:BE:189:ASP:CB	2.24	0.67
38:BF:30:ARG:HB2	49:BQ:37:PHE:O	1.94	0.67
38:BF:52:LEU:CA	38:BF:70:VAL:HG22	2.20	0.67
39:BG:145:GLU:HA	39:BG:183:GLY:O	1.94	0.67
39:BG:162:LEU:CD1	39:BG:181:MET:HG2	2.23	0.67
43:BK:14:ARG:O	43:BK:17:THR:HB	1.94	0.67
43:BK:36:LEU:H	43:BK:36:LEU:HD23	1.60	0.67
43:BK:109:ILE:HG12	43:BK:137:VAL:N	2.09	0.67
48:BP:29:ARG:NE	48:BP:64:TRP:NE1	2.43	0.67
50:BR:66:LEU:O	50:BR:67:LEU:C	2.36	0.67
51:BS:7:ALA:H	51:BS:18:ARG:HB2	1.59	0.67
51:BS:26:ARG:HG2	51:BS:26:ARG:HH11	1.59	0.67
1:AB:77:U:H2'	1:AB:78:A:C8	2.29	0.67
1:AB:80:U:C2	1:AB:81:G:N7	2.63	0.67
2:AA:154:G:C5	2:AA:155:C:C2	2.82	0.67
2:AA:181:A:C2	2:AA:434:U:O2'	2.48	0.67
2:AA:270(A):A:H5'	2:AA:270(B):A:P	2.35	0.67
2:AA:604:G:N3	2:AA:657:U:H4'	2.09	0.67
2:AA:627:A:C2'	2:AA:628:G:O4'	2.43	0.67
2:AA:650:C:N4	2:AA:651:G:N1	2.42	0.67
2:AA:674:G:O3'	6:AF:69:HIS:C	2.37	0.67
2:AA:848:G:H2'	2:AA:849:A:C8	2.29	0.67
2:AA:912:C:C2'	2:AA:913:U:H5'	2.24	0.67
2:AA:941:A:H2	2:AA:942:G:H1'	1.59	0.67
2:AA:961:C:O2'	2:AA:962:G:P	2.53	0.67
2:AA:979:G:C8	2:AA:980:A:H5''	2.29	0.67
2:AA:1071:G:C8	2:AA:1089:G:C6	2.83	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1083:U:H3'	9:AI:37:VAL:N	2.09	0.67
2:AA:1158:C:H4'	23:AX:32:GLN:CD	2.19	0.67
2:AA:1168:G:H2'	2:AA:1169:G:O4'	1.95	0.67
2:AA:1171:G:H3'	2:AA:1173:G:C5'	2.22	0.67
2:AA:1312:U:O4	19:AT:58:MET:HB2	1.93	0.67
2:AA:1582:C:H2'	2:AA:1583:A:O2'	1.94	0.67
2:AA:1627:G:H2'	2:AA:1628:G:C8	2.30	0.67
2:AA:1795:C:H42	2:AA:1824:G:H1	0.78	0.67
2:AA:1815:A:O2'	2:AA:1816:G:O5'	2.13	0.67
2:AA:1861:G:H5'	3:AC:205:LYS:CE	2.24	0.67
2:AA:2209:C:HO2'	2:AA:2210:G:H8	0.79	0.67
2:AA:2308:G:OP2	2:AA:2310:A:N6	2.27	0.67
2:AA:2380:C:H2'	2:AA:2381:C:C5'	2.24	0.67
2:AA:2389:G:P	2:AA:2390:U:H5'	2.34	0.67
2:AA:2423:U:O4'	2:AA:2425:A:C8	2.48	0.67
2:AA:2553:G:C2	2:AA:2583:G:H1'	2.29	0.67
2:AA:2635:C:C2	2:AA:2783:G:N2	2.62	0.67
3:AC:5:LYS:CE	3:AC:8:ARG:HB3	2.24	0.67
3:AC:131:LEU:C	3:AC:133:PRO:CD	2.67	0.67
4:AD:76:ARG:HG2	4:AD:113:MET:HB3	1.74	0.67
5:AE:240:PRO:HB2	5:AE:243:PRO:CD	2.24	0.67
5:AE:271:ILE:CG2	5:AE:272:GLY:N	2.57	0.67
8:AH:32:LEU:HD11	8:AH:34:ARG:HH21	1.59	0.67
10:AK:93:ILE:HG12	10:AK:121:ILE:C	2.20	0.67
10:AK:110:LEU:HD23	10:AK:110:LEU:C	2.20	0.67
11:AL:18:ALA:C	11:AL:39:CYS:HB3	2.19	0.67
11:AL:52:MET:HE3	11:AL:53:ILE:N	2.09	0.67
12:AM:12:VAL:O	12:AM:38:VAL:HG13	1.94	0.67
13:AN:20:LEU:HD23	13:AN:21:VAL:O	1.94	0.67
13:AN:68:GLY:HA3	13:AN:78:ARG:CZ	2.18	0.67
14:AO:94:ARG:NE	14:AO:118:LEU:HB2	2.09	0.67
16:AQ:60:SER:O	16:AQ:88:ALA:CA	2.41	0.67
19:AT:47:VAL:HB	19:AT:50:GLU:OE2	1.94	0.67
24:A0:33:ARG:HA	24:A0:114:VAL:O	1.93	0.67
25:A1:59:ARG:HH11	25:A1:59:ARG:CB	2.06	0.67
26:A2:4:ILE:O	26:A2:41:GLY:HA3	1.94	0.67
34:BA:162:A:C2'	34:BA:163:C:H5'	2.25	0.67
34:BA:189:G:O6	34:BA:190(J):U:O4	2.12	0.67
34:BA:342:C:O2'	34:BA:343:U:H5'	1.95	0.67
34:BA:585:G:C4'	47:BO:8:ASN:ND2	2.57	0.67
34:BA:605:U:C2'	34:BA:606:G:H8	2.05	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:673:G:H5''	41:BI:87:ARG:CZ	2.23	0.67
34:BA:953:G:C4'	48:BP:124:PRO:O	2.37	0.67
34:BA:1059:C:H2'	34:BA:1059:C:O2	1.93	0.67
34:BA:1117:G:OP1	44:BL:104:ARG:NH1	2.26	0.67
34:BA:1158:C:C2	34:BA:1160:G:C8	2.83	0.67
34:BA:1508:G:O2'	34:BA:1509:C:H5'	1.95	0.67
35:BB:22:G:HO2'	35:BB:23:A:H8	1.41	0.67
35:BB:34:G:C2	36:B1:66:G:C6	2.83	0.67
35:BC:38:A:H2'	35:BC:39:U:C5'	2.25	0.67
37:BE:33:TYR:HB3	37:BE:42:ILE:O	1.95	0.67
37:BE:93:VAL:HG12	37:BE:95:GLN:O	1.94	0.67
38:BF:30:ARG:HG2	38:BF:30:ARG:NH1	2.06	0.67
40:BH:116:THR:O	40:BH:117:ASP:OD1	2.13	0.67
41:BI:14:LEU:HD13	41:BI:18:GLN:HB3	1.77	0.67
41:BI:96:PRO:HA	53:BU:32:ARG:CG	2.25	0.67
46:BN:21:ILE:HG23	46:BN:30:VAL:HG22	1.77	0.67
47:BO:70:ILE:HG21	47:BO:77:LEU:CD1	2.24	0.67
48:BP:29:ARG:HD3	48:BP:64:TRP:CE2	2.29	0.67
48:BP:81:LEU:HA	48:BP:84:ILE:HG12	1.76	0.67
50:BR:54:ARG:HD3	50:BR:55:GLY:N	2.10	0.67
54:BV:40:ILE:CG1	54:BV:71:LEU:HD23	2.19	0.67
1:AB:8:U:C2'	1:AB:9:G:C8	2.61	0.67
1:AB:17:C:OP1	7:AG:147:ALA:CA	2.43	0.67
2:AA:30:G:C2	2:AA:511:U:H1'	2.30	0.67
2:AA:49:A:C2	2:AA:118:A:N7	2.62	0.67
2:AA:137(A):G:H3'	2:AA:138:G:C2	2.29	0.67
2:AA:139:G:C8	2:AA:142:G:O4'	2.48	0.67
2:AA:468:G:N7	2:AA:469:G:C4	2.62	0.67
2:AA:528:A:N6	2:AA:2042:A:C8	2.63	0.67
2:AA:612:G:C4'	2:AA:616:A:N6	2.43	0.67
2:AA:746:A:H5''	2:AA:748:G:H1'	1.77	0.67
2:AA:805:G:O2'	2:AA:831:G:H4'	1.95	0.67
2:AA:877:U:O5'	2:AA:877:U:H6	1.77	0.67
2:AA:974(A):C:H1'	2:AA:989:G:N1	2.10	0.67
2:AA:1006:C:H1'	12:AM:86:MET:CE	2.24	0.67
2:AA:1058:G:H4'	9:AI:2:THR:HA	1.73	0.67
2:AA:1343:G:N3	2:AA:1384:A:H2	1.91	0.67
2:AA:1395:A:P	2:AA:1603:A:H5''	2.34	0.67
2:AA:1458:C:H4'	2:AA:1459:G:C5	2.28	0.67
2:AA:1463:C:C2	2:AA:1464:C:C5	2.83	0.67
2:AA:1892:C:H2'	2:AA:1893:C:C6	2.29	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2053:G:H2'	2:AA:2054:A:C8	2.27	0.67
2:AA:2059:A:N1	2:AA:2503:A:N7	2.42	0.67
2:AA:2265:U:N3	2:AA:2266:A:N7	2.43	0.67
2:AA:2311:A:OP2	7:AG:55:LYS:CE	2.43	0.67
2:AA:2325:G:C4	2:AA:2326:C:C5	2.82	0.67
2:AA:2332:U:H4'	2:AA:2336:A:N6	2.10	0.67
2:AA:2498:C:H2'	2:AA:2499:C:H5''	1.77	0.67
2:AA:2508:G:H1	2:AA:2580:U:H3	1.41	0.67
2:AA:2549:G:N2	2:AA:2560:C:C6	2.63	0.67
2:AA:2569:G:C2	2:AA:2570:G:N7	2.63	0.67
2:AA:2622:C:H5'	5:AE:255:GLN:OE1	1.94	0.67
2:AA:2729:G:N2	5:AE:300:VAL:HG11	2.09	0.67
3:AC:131:LEU:HB2	3:AC:137:LEU:HD23	1.76	0.67
3:AC:133:PRO:CG	3:AC:134:ARG:NH1	2.57	0.67
3:AC:186:ALA:O	3:AC:190:ARG:NH1	2.27	0.67
4:AD:115:ILE:O	4:AD:116:MET:HB2	1.92	0.67
4:AD:216:ALA:HB1	4:AD:223:ASN:CB	2.18	0.67
7:AG:103:ASN:C	7:AG:104:PHE:CG	2.72	0.67
7:AG:145:ASP:CB	16:AQ:15:GLU:O	2.43	0.67
11:AL:15:ALA:HA	11:AL:46:THR:CB	2.25	0.67
13:AN:17:ARG:C	13:AN:18:GLU:HG3	2.20	0.67
14:AO:113:GLN:HE21	14:AO:115:ARG:NH1	1.93	0.67
14:AO:141:GLU:CD	14:AO:145:LEU:HB2	2.19	0.67
15:AP:48:ASN:ND2	15:AP:122:PHE:HB2	2.10	0.67
15:AP:66:ASN:O	15:AP:70:ARG:CG	2.41	0.67
15:AP:85:ILE:HD12	15:AP:85:ILE:O	1.93	0.67
15:AP:133:GLU:C	15:AP:133:GLU:OE1	2.38	0.67
16:AQ:44:ARG:HB3	16:AQ:62:HIS:HD2	1.60	0.67
18:AS:6:ILE:HG13	18:AS:104:THR:CG2	2.24	0.67
18:AS:32:ALA:HA	18:AS:35:ILE:CG1	2.24	0.67
18:AS:32:ALA:O	18:AS:35:ILE:HB	1.95	0.67
20:AU:27:LEU:CB	20:AU:98:VAL:O	2.42	0.67
21:AV:15:ASP:C	21:AV:36:ARG:NH2	2.50	0.67
23:AX:3:ARG:HD3	23:AX:60:GLU:CG	2.24	0.67
23:AX:12:PRO:HB2	23:AX:20:LYS:CE	2.25	0.67
23:AX:41:PRO:O	23:AX:42:ALA:C	2.37	0.67
25:A1:77:SER:OG	25:A1:78:THR:N	2.27	0.67
28:A4:28:ARG:HB3	28:A4:29:PRO:HD2	1.77	0.67
31:A7:43:THR:OG1	31:A7:44:VAL:N	2.27	0.67
32:A8:22:VAL:HG12	32:A8:23:MET:N	2.08	0.67
34:BA:236:G:H5'	52:BT:42:TYR:OH	1.95	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:592:G:O2'	34:BA:593:G:H5'	1.95	0.67
34:BA:986:A:H1'	54:BV:55:LYS:CA	2.21	0.67
34:BA:1483:A:C3'	34:BA:1484:C:H5'	2.25	0.67
35:BB:34:G:H1	36:B1:65:U:C2'	2.03	0.67
36:B1:10:U:H2'	36:B1:11:U:H6	1.60	0.67
39:BG:160:GLN:O	39:BG:163:GLU:HB3	1.95	0.67
40:BH:56:GLN:O	40:BH:59:GLY:N	2.28	0.67
40:BH:99:GLY:N	40:BH:117:ASP:HA	2.10	0.67
40:BH:136:MET:O	40:BH:139:LEU:HB2	1.95	0.67
43:BK:93:VAL:HB	43:BK:133:LEU:HD12	1.75	0.67
44:BL:122:ALA:O	44:BL:123:PRO:C	2.36	0.67
45:BM:34:VAL:HG12	45:BM:36:GLY:N	2.04	0.67
45:BM:49:VAL:CG1	45:BM:50:ILE:H	2.06	0.67
46:BN:85:ARG:NE	46:BN:111:ASP:OD2	2.27	0.67
48:BP:11:ARG:O	48:BP:13:LYS:N	2.27	0.67
52:BT:10:VAL:HG11	52:BT:53:LEU:HA	1.76	0.67
53:BU:77:GLY:C	53:BU:78:LEU:HG	2.19	0.67
54:BV:30:LEU:HA	54:BV:48:THR:O	1.94	0.67
55:BW:86:ARG:HG2	55:BW:87:LYS:H	1.60	0.67
2:AA:38:A:H2'	2:AA:39:C:C5	2.29	0.67
2:AA:153:C:N3	2:AA:174:C:N4	2.43	0.67
2:AA:259:G:O2'	2:AA:260:G:H5'	1.95	0.67
2:AA:273(B):C:H2'	2:AA:273(C):C:C6	2.30	0.67
2:AA:280:C:C2'	2:AA:281:G:H3'	2.25	0.67
2:AA:311:A:H3'	2:AA:312:G:C8	2.29	0.67
2:AA:557:U:C5'	12:AM:92:GLN:HE21	2.08	0.67
2:AA:566:U:H5''	26:A2:81:ARG:NH2	2.09	0.67
2:AA:581:C:O3'	25:A1:32:TYR:CD1	2.46	0.67
2:AA:669:G:C5'	2:AA:670:A:OP2	2.38	0.67
2:AA:1086:A:C3'	2:AA:1087:G:H5'	2.24	0.67
2:AA:1178:C:C2	2:AA:1179:C:C5	2.83	0.67
2:AA:1303:G:C8	2:AA:1304:C:H5	2.12	0.67
2:AA:1334:G:C4	2:AA:1335:U:C5	2.83	0.67
2:AA:1340:U:H4'	2:AA:1394:U:O2'	1.95	0.67
2:AA:1364:G:N7	28:A4:2:GLN:OE1	2.28	0.67
2:AA:1441:G:C2'	2:AA:1442:G:H5'	2.25	0.67
2:AA:1645:G:H5''	2:AA:1646:C:C5'	2.25	0.67
2:AA:1652:A:N7	2:AA:1653:G:N2	2.43	0.67
2:AA:1663:C:N4	2:AA:1992:G:H8	1.91	0.67
2:AA:1689:A:C6	2:AA:1700:A:C2	2.83	0.67
2:AA:2177:C:H2'	2:AA:2178:C:C6	2.30	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2700:C:H2'	2:AA:2701:C:H5''	1.75	0.67
2:AA:2703:C:C5	2:AA:2704:C:C4	2.83	0.67
2:AA:2893:G:O2'	2:AA:2894:G:C1'	2.42	0.67
2:AA:2896:C:O5'	2:AA:2896:C:H6	1.77	0.67
3:AC:59:ARG:HD2	3:AC:164:ARG:HD3	1.75	0.67
5:AE:189:MET:O	5:AE:190:ASN:HB3	1.92	0.67
5:AE:308:VAL:HG12	5:AE:310:PHE:HE1	1.59	0.67
6:AF:238:SER:C	6:AF:241:ALA:H	2.03	0.67
7:AG:23:VAL:C	7:AG:24:HIS:CG	2.73	0.67
12:AM:74:ARG:N	12:AM:74:ARG:CD	2.58	0.67
13:AN:5:GLU:HB3	13:AN:20:LEU:CG	2.25	0.67
15:AP:20:ILE:HD12	15:AP:21:SER:HG	1.58	0.67
15:AP:28:ILE:HG23	15:AP:62:GLU:CG	2.25	0.67
15:AP:56:ILE:CG1	15:AP:115:SER:HB3	2.24	0.67
19:AT:3:ASP:O	19:AT:4:VAL:HG13	1.94	0.67
21:AV:51:LEU:HD11	21:AV:64:ALA:HA	1.76	0.67
29:A5:15:LYS:O	29:A5:16:ARG:C	2.38	0.67
29:A5:40:LYS:NZ	29:A5:46:CYS:N	2.42	0.67
31:A7:4:THR:H	31:A7:6:GLN:HE22	1.43	0.67
31:A7:27:GLY:O	31:A7:28:ARG:C	2.37	0.67
31:A7:28:ARG:O	31:A7:31:LEU:HB2	1.94	0.67
34:BA:384:G:O2'	34:BA:385:C:H5'	1.93	0.67
34:BA:392:G:P	51:BS:8:ARG:HH22	2.18	0.67
34:BA:552:U:H4'	47:BO:86:ARG:O	1.94	0.67
34:BA:606:G:N2	34:BA:631:G:N3	2.43	0.67
34:BA:1241:G:C6	34:BA:1242:C:N4	2.63	0.67
34:BA:1463:C:C2'	34:BA:1464:G:H5'	2.25	0.67
35:BB:72:C:C4	35:BB:73:A:N7	2.63	0.67
35:BC:2:C:O2'	35:BC:3:G:H5'	1.94	0.67
38:BF:21:ARG:HH21	38:BF:54:ARG:HH22	1.42	0.67
38:BF:42:LEU:HD23	38:BF:45:LYS:HD2	1.76	0.67
39:BG:148:VAL:O	39:BG:153:ARG:HD3	1.95	0.67
40:BH:86:ALA:O	40:BH:125:SER:CB	2.43	0.67
41:BI:4:TYR:CA	41:BI:93:SER:OG	2.42	0.67
42:BJ:70:LYS:O	42:BJ:138:LYS:HE3	1.94	0.67
43:BK:118:VAL:C	43:BK:119:LEU:HD22	2.19	0.67
44:BL:96:LEU:HD12	44:BL:101:PHE:CD1	2.30	0.67
51:BS:43:LYS:O	51:BS:45:THR:N	2.23	0.67
51:BS:67:THR:HB	51:BS:70:ALA:CB	2.25	0.67
53:BU:36:ASN:HB3	53:BU:40:LEU:CD2	2.22	0.67
53:BU:67:ALA:O	53:BU:70:ILE:N	2.28	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:33:THR:HG22	54:BV:34:TRP:N	2.10	0.67
1:AB:35:U:C4	1:AB:36:C:C5	2.83	0.67
2:AA:223:A:N1	2:AA:407:G:O2'	2.22	0.67
2:AA:292:C:H3'	2:AA:293:U:N3	2.10	0.67
2:AA:459:U:H2'	2:AA:460:A:H8	1.60	0.67
2:AA:533:G:OP1	25:A1:24:PHE:HB2	1.95	0.67
2:AA:585:G:H5''	2:AA:586:A:OP2	1.95	0.67
2:AA:602:G:H4'	2:AA:603:A:O2'	1.95	0.67
2:AA:624:C:H5'	2:AA:625:G:OP2	1.95	0.67
2:AA:640:C:H2'	2:AA:641:C:C5'	2.18	0.67
2:AA:1084:A:O5'	9:AI:38:ALA:C	2.36	0.67
2:AA:1263:U:O2'	29:A5:16:ARG:NH2	2.27	0.67
2:AA:1444:G:O2'	2:AA:444(A):A:OP1	2.08	0.67
2:AA:1451:C:C5	2:AA:1453:A:O3'	2.48	0.67
2:AA:1788:C:O5'	2:AA:1788:C:H6	1.78	0.67
2:AA:1891:G:H3'	2:AA:1892:C:H6	1.58	0.67
2:AA:1907:G:N1	2:AA:1908:C:N4	2.42	0.67
2:AA:2243:U:H2'	2:AA:2244:U:O4'	1.95	0.67
2:AA:2246:G:N3	2:AA:2247:A:N7	2.43	0.67
2:AA:2432:A:N1	2:AA:2433:A:N1	2.43	0.67
4:AD:85:ASN:CB	4:AD:86:ARG:NE	2.58	0.67
4:AD:132:GLU:OE2	4:AD:186:LYS:HB2	1.94	0.67
5:AE:200:ASP:HA	5:AE:266:LYS:HD2	1.77	0.67
5:AE:254:GLY:O	5:AE:255:GLN:O	2.12	0.67
8:AH:86:LEU:HA	8:AH:148:ARG:CZ	2.22	0.67
8:AH:145:ALA:O	8:AH:146:ASN:C	2.37	0.67
9:AI:7:ILE:HG22	9:AI:11:GLU:OE2	1.95	0.67
9:AI:115:LYS:HZ2	9:AI:127:LEU:HD13	1.59	0.67
9:AJ:73:VAL:HA	9:AJ:121:ALA:CB	2.24	0.67
9:AJ:78:ARG:HH22	11:AL:59:THR:CG2	2.07	0.67
10:AK:37:ILE:HG23	10:AK:38:GLU:N	2.09	0.67
11:AL:18:ALA:HB1	11:AL:39:CYS:C	2.20	0.67
13:AN:10:VAL:HG11	13:AN:12:ASP:O	1.95	0.67
13:AN:71:ARG:HH21	13:AN:77:ILE:HG21	1.58	0.67
16:AQ:69:TYR:N	16:AQ:69:TYR:CD1	2.62	0.67
18:AS:8:ARG:NH1	18:AS:8:ARG:CB	2.58	0.67
20:AU:112:LEU:H	20:AU:112:LEU:HD23	1.58	0.67
21:AV:37:LYS:HG3	21:AV:41:ARG:NH1	2.10	0.67
21:AV:103:ARG:HG2	21:AV:103:ARG:NH1	2.08	0.67
23:AX:18:ASP:O	23:AX:21:ALA:CB	2.43	0.67
24:A0:20:LEU:HD12	24:A0:21:TYR:CD2	2.29	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:79:GLN:NE2	26:A2:80:TYR:OH	2.27	0.67
27:A3:37:LEU:O	27:A3:40:GLN:CG	2.43	0.67
30:A6:34:LYS:HA	30:A6:53:LYS:HZ1	1.58	0.67
32:A8:23:MET:HG3	32:A8:24:ALA:N	2.08	0.67
32:A8:62:LEU:CB	32:A8:63:PRO:CD	2.73	0.67
34:BA:27:G:H8	34:BA:27:G:O5'	1.77	0.67
34:BA:113:G:N7	34:BA:114:U:C5	2.63	0.67
34:BA:294:U:C2	34:BA:295:C:C5	2.83	0.67
34:BA:486:U:H2'	34:BA:487:A:O5'	1.94	0.67
34:BA:570:G:H4'	34:BA:820:U:C6	2.30	0.67
34:BA:632:A:H8	34:BA:632:A:O5'	1.78	0.67
34:BA:659:U:O2'	34:BA:660:G:C5'	2.43	0.67
34:BA:668:G:H1	34:BA:738:C:H42	0.78	0.67
34:BA:745:C:C5'	34:BA:851:G:H1'	2.25	0.67
34:BA:946:A:C2'	34:BA:947:G:H8	2.06	0.67
34:BA:1072:G:C2	34:BA:1104:G:C2	2.83	0.67
34:BA:1255:G:O3'	34:BA:1258:G:H1'	1.95	0.67
34:BA:1426:C:N4	34:BA:1474:G:N1	2.05	0.67
38:BF:40:ARG:O	38:BF:44:GLU:HG3	1.95	0.67
39:BG:78:LEU:CD1	39:BG:97:LEU:HD23	2.25	0.67
43:BK:11:THR:HA	43:BK:14:ARG:NH1	2.10	0.67
43:BK:18:ARG:HH22	43:BK:78:GLN:CD	2.03	0.67
44:BL:27:THR:HB	44:BL:62:TYR:CD1	2.30	0.67
45:BM:5:ARG:HA	45:BM:73:ASP:CG	2.20	0.67
46:BN:84:VAL:CG2	46:BN:111:ASP:H	2.08	0.67
47:BO:38:THR:O	47:BO:39:VAL:HG23	1.95	0.67
47:BO:82:VAL:O	47:BO:106:ASP:HB2	1.94	0.67
49:BQ:14:PRO:HB2	49:BQ:17:LYS:O	1.93	0.67
49:BQ:29:ARG:NH1	49:BQ:42:ILE:HD11	2.10	0.67
51:BS:20:VAL:CG1	51:BS:32:TYR:HD2	2.07	0.67
51:BS:58:TYR:HD1	51:BS:59:TRP:CA	2.07	0.67
1:AB:45:A:C1'	7:AG:76:ARG:HH12	2.08	0.67
1:AB:81:G:C5	1:AB:82:G:N7	2.63	0.67
1:AB:93:C:H2'	1:AB:94:C:H6	1.56	0.67
2:AA:18:C:OP1	25:A1:26:GLY:HA2	1.94	0.67
2:AA:273:G:C4	2:AA:273(A):G:N7	2.63	0.67
2:AA:327:G:N1	2:AA:328:U:C6	2.63	0.67
2:AA:457:A:H1'	2:AA:459:U:N3	2.10	0.67
2:AA:603:A:N6	2:AA:624:C:N4	2.43	0.67
2:AA:813:U:H4'	2:AA:1226:G:H5'	1.76	0.67
2:AA:917:A:H2'	2:AA:918:A:O4'	1.94	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:928:G:N3	2:AA:929:G:C6	2.63	0.67
2:AA:1029:A:H2'	2:AA:1030:G:C5'	2.25	0.67
2:AA:1087:G:H2'	2:AA:1089:G:H4'	1.77	0.67
2:AA:1300:U:C4'	2:AA:1301:A:O5'	2.42	0.67
2:AA:1348:G:O2'	2:AA:1349:A:H5'	1.94	0.67
2:AA:1457:A:O2'	2:AA:1458:C:H5'	1.95	0.67
2:AA:1472:A:C4	2:AA:1473:G:N7	2.63	0.67
2:AA:1472:A:H2	2:AA:1519:G:N1	1.93	0.67
2:AA:1498:C:H6	2:AA:1576:U:O2'	1.77	0.67
2:AA:1807:G:C1'	2:AA:1811:G:N2	2.58	0.67
2:AA:1825:A:C6	2:AA:1826:G:C6	2.83	0.67
2:AA:1857:G:N1	2:AA:1884:A:C6	2.62	0.67
2:AA:1983:C:O2'	2:AA:1984:G:H5'	1.95	0.67
2:AA:2119:A:C6	2:AA:2147:G:O5'	2.48	0.67
2:AA:2640:G:O3'	12:AM:70:PHE:CD2	2.46	0.67
2:AA:2673:G:O2'	2:AA:2674:G:H5'	1.94	0.67
3:AC:10:LEU:HD23	3:AC:220:PRO:CD	2.24	0.67
4:AD:204:PHE:HD1	4:AD:204:PHE:N	1.91	0.67
6:AF:115:LEU:CG	6:AF:246:ARG:NH2	2.52	0.67
7:AG:24:HIS:C	7:AG:129:ASP:OD2	2.38	0.67
9:AJ:89:LYS:HZ2	11:AL:8:GLN:N	1.93	0.67
10:AK:52:GLN:HA	10:AK:55:GLN:NE2	2.10	0.67
10:AK:115:ILE:HA	10:AK:131:VAL:HA	1.77	0.67
11:AL:11:LEU:CD1	11:AL:28:LEU:HG	2.24	0.67
12:AM:57:TYR:HB2	12:AM:135:ILE:CG2	2.19	0.67
15:AP:88:PHE:CB	15:AP:90:PHE:CE1	2.74	0.67
20:AU:49:GLU:O	20:AU:97:ARG:HG3	1.95	0.67
21:AV:14:LEU:HG	21:AV:80:HIS:NE2	2.10	0.67
24:A0:60:LEU:HD23	24:A0:60:LEU:N	2.10	0.67
24:A0:90:ARG:HB2	24:A0:94:TYR:OH	1.94	0.67
24:A0:96:ARG:CG	24:A0:98:LEU:HD11	2.25	0.67
27:A3:78:PHE:HD1	27:A3:78:PHE:H	1.43	0.67
28:A4:58:LYS:HG2	28:A4:62:ARG:NE	2.10	0.67
29:A5:12:SER:HB3	29:A5:15:LYS:HZ2	1.60	0.67
34:BA:93:G:C2'	34:BA:95:U:O4'	2.39	0.67
34:BA:131:C:H2'	34:BA:131:C:O2	1.95	0.67
34:BA:247:G:N3	34:BA:282:A:H2	1.93	0.67
34:BA:325:A:N7	34:BA:326:G:C5	2.62	0.67
34:BA:330:C:O2'	34:BA:331:G:H5'	1.94	0.67
34:BA:339:C:O2'	34:BA:340:U:H5'	1.95	0.67
34:BA:363:A:H5''	47:BO:105:TYR:OH	1.95	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:370:C:C2'	34:BA:371:G:H5'	2.25	0.67
34:BA:593:G:O2'	34:BA:594:G:H5'	1.95	0.67
34:BA:646:U:O2'	34:BA:647:C:H5'	1.95	0.67
34:BA:649:G:H2'	34:BA:650:G:H8	1.59	0.67
34:BA:890:G:N1	34:BA:906:G:N7	2.42	0.67
34:BA:910:C:H2'	34:BA:911:U:O4'	1.95	0.67
34:BA:1016:A:H2'	34:BA:1017:G:O4'	1.93	0.67
34:BA:1150:U:H1'	34:BA:1280:A:N6	2.10	0.67
34:BA:1203:C:H2'	34:BA:1204:A:O4'	1.95	0.67
34:BA:1327:C:C5'	56:BX:20:LYS:HE2	2.25	0.67
34:BA:1504:G:H4'	34:BA:1505:G:O5'	1.93	0.67
35:BB:7:U:C2	35:BB:67:A:C2	2.83	0.67
35:BB:26:G:C2	35:BB:27:C:O4'	2.48	0.67
35:BB:40:C:H5'	35:BB:41:U:P	2.34	0.67
35:BB:49:C:H42	35:BB:65:G:H1	1.35	0.67
35:BB:51:G:C5	35:BB:52:U:C4	2.82	0.67
35:BB:64:A:C6	35:BB:65:G:C5	2.83	0.67
36:B1:17:G:H2'	36:B1:18:U:C5	2.29	0.67
37:BE:35:GLU:O	37:BE:36:ARG:CZ	2.43	0.67
38:BF:73:PRO:O	38:BF:76:VAL:HB	1.95	0.67
38:BF:91:LEU:CD2	38:BF:98:ASN:HA	2.25	0.67
39:BG:102:ASP:HA	39:BG:105:VAL:HG23	1.77	0.67
41:BI:1:MET:SD	41:BI:68:PRO:HD3	2.35	0.67
41:BI:45:LEU:HA	41:BI:58:GLY:O	1.95	0.67
41:BI:81:ILE:CG2	41:BI:82:ARG:N	2.47	0.67
44:BL:23:ASN:CG	44:BL:24:GLY:N	2.47	0.67
48:BP:4:ILE:C	48:BP:6:GLY:N	2.52	0.67
51:BS:58:TYR:O	51:BS:61:SER:CB	2.43	0.67
1:AB:87:G:C2'	1:AB:89:G:N7	2.58	0.66
2:AA:53:A:H8	2:AA:53:A:O5'	1.78	0.66
2:AA:307:G:H21	2:AA:330:A:N6	1.91	0.66
2:AA:343:C:C4	2:AA:344:G:C5	2.83	0.66
2:AA:442:G:N3	6:AF:46:TYR:CZ	2.63	0.66
2:AA:534:U:O2'	25:A1:49:ASP:CG	2.37	0.66
2:AA:996:A:N6	2:AA:1160:G:C6	2.62	0.66
2:AA:1179:C:OP2	2:AA:1179:C:H3'	1.95	0.66
2:AA:1508:A:C5'	2:AA:1510:A:N7	2.58	0.66
2:AA:1683:C:N3	2:AA:1684:C:N4	2.42	0.66
2:AA:1703:G:O2'	2:AA:1704:G:H5'	1.95	0.66
2:AA:1807:G:H21	2:AA:1809:A:H5'	1.60	0.66
2:AA:1840:G:C2'	2:AA:1841:U:H5'	2.25	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2011:U:OP1	18:AS:42:ARG:NH1	2.28	0.66
2:AA:2013:A:C2'	2:AA:2014:A:H5'	2.24	0.66
2:AA:2120:G:N2	2:AA:2178:C:N3	2.40	0.66
2:AA:2121:G:N2	2:AA:2178:C:C2	2.63	0.66
2:AA:2231:C:H5''	28:A4:39:VAL:HG22	1.78	0.66
2:AA:2359:C:N3	2:AA:2360:A:C2	2.63	0.66
2:AA:2564:A:H2'	2:AA:2565:A:H8	1.60	0.66
2:AA:2706:G:C2	2:AA:2707:G:C8	2.83	0.66
2:AA:2752:C:H2'	2:AA:2752:C:O2	1.96	0.66
4:AD:103:ILE:CG1	4:AD:104:ILE:HG13	2.25	0.66
4:AD:144:GLU:OE2	4:AD:148:GLY:N	2.28	0.66
6:AF:54:LEU:O	6:AF:79:ARG:CZ	2.43	0.66
9:AI:64:LYS:HD3	9:AI:126:GLU:CD	2.20	0.66
10:AK:3:VAL:HG21	10:AK:21:VAL:HG23	1.75	0.66
10:AK:116:GLU:HB2	10:AK:130:PRO:O	1.95	0.66
12:AM:10:VAL:HB	12:AM:36:VAL:CA	2.20	0.66
13:AN:47:THR:O	13:AN:49:GLY:N	2.27	0.66
13:AN:91:LYS:HB3	13:AN:111:PHE:HE2	1.58	0.66
13:AN:103:ALA:O	13:AN:105:GLU:HG2	1.94	0.66
15:AP:87:LYS:HB2	15:AP:122:PHE:CE2	2.30	0.66
18:AS:29:LEU:O	18:AS:30:GLU:C	2.36	0.66
21:AV:20:ALA:O	21:AV:80:HIS:HA	1.95	0.66
21:AV:92:VAL:O	21:AV:124:ALA:HB2	1.94	0.66
29:A5:57:VAL:HG13	29:A5:58:LEU:H	1.59	0.66
31:A7:34:ARG:HH12	31:A7:42:LEU:HA	1.60	0.66
32:A8:18:GLY:C	32:A8:20:GLY:N	2.49	0.66
34:BA:279:A:C1'	34:BA:281:G:N3	2.55	0.66
34:BA:592:G:C2'	34:BA:593:G:H5'	2.25	0.66
34:BA:666:G:C5'	34:BA:726:C:O2	2.35	0.66
34:BA:778:G:C4	34:BA:779:C:C5	2.83	0.66
34:BA:781:A:N6	34:BA:802:A:C4	2.63	0.66
34:BA:959:A:H5''	34:BA:960:U:OP2	1.94	0.66
34:BA:1127:G:N2	34:BA:1144:G:N2	2.42	0.66
34:BA:1237:C:C4'	34:BA:1334:G:N2	2.57	0.66
35:BB:40:C:C5'	35:BB:41:U:OP2	2.38	0.66
35:BB:49:C:N4	35:BB:65:G:C6	2.57	0.66
37:BE:97:TRP:HZ2	37:BE:176:GLU:OE1	1.77	0.66
38:BF:150:LYS:HZ3	38:BF:152:ILE:HD11	1.59	0.66
42:BJ:22:LEU:HD23	42:BJ:63:LYS:NZ	2.11	0.66
43:BK:17:THR:HG23	43:BK:80:ILE:HD13	1.76	0.66
46:BN:100:ALA:C	46:BN:102:GLY:N	2.48	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:39:VAL:HB	47:BO:57:LYS:CD	2.21	0.66
47:BO:90:VAL:CG1	47:BO:93:LEU:HD21	2.25	0.66
48:BP:19:LEU:O	48:BP:25:ILE:HD12	1.95	0.66
55:BW:51:GLU:HA	55:BW:54:LYS:HD2	1.77	0.66
2:AA:85:G:H1	2:AA:97:C:N4	1.92	0.66
2:AA:162:U:H4'	2:AA:171:G:N2	2.11	0.66
2:AA:208:C:H2'	2:AA:209:C:C6	2.29	0.66
2:AA:292:C:C3'	2:AA:293:U:N3	2.58	0.66
2:AA:588:U:OP2	2:AA:588:U:C6	2.49	0.66
2:AA:632:A:O2'	2:AA:633:A:H5'	1.96	0.66
2:AA:636:G:OP2	14:AO:126:SER:HA	1.96	0.66
2:AA:681:G:N2	2:AA:796:C:N3	2.42	0.66
2:AA:762:U:N3	2:AA:1431:U:OP1	2.28	0.66
2:AA:828:U:H4'	2:AA:831:G:C2	2.30	0.66
2:AA:919:G:C4	2:AA:920:G:N7	2.62	0.66
2:AA:1057:A:C8	2:AA:1085:A:N1	2.63	0.66
2:AA:1084:A:N9	9:AI:25:LEU:HB3	2.10	0.66
2:AA:1177:A:H2'	2:AA:1178:C:H6	1.59	0.66
2:AA:1184:G:H2'	2:AA:1185:C:H6	1.60	0.66
2:AA:1404:C:O2'	2:AA:1405:U:H5'	1.95	0.66
2:AA:1449:A:H2	2:AA:449(A):G:H1'	1.59	0.66
2:AA:1529:A:N7	2:AA:1543:A:C8	2.63	0.66
2:AA:1539:G:H2'	2:AA:1540:G:C5	2.31	0.66
2:AA:1753:G:H8	2:AA:1753:G:H3'	1.61	0.66
2:AA:1754:C:H2'	2:AA:1755:A:O4'	1.95	0.66
2:AA:1935:G:C8	2:AA:1962:C:N4	2.64	0.66
2:AA:1945:G:N2	2:AA:1946:U:C2	2.63	0.66
2:AA:2126:A:H2'	2:AA:2127:G:H5''	1.75	0.66
2:AA:2178:C:H1'	3:AC:168:THR:HB	1.78	0.66
2:AA:2291:U:OP1	2:AA:2381:C:H5'	1.95	0.66
2:AA:2297:C:H2'	2:AA:2298:A:C8	2.29	0.66
2:AA:2313:C:C4'	7:AG:72:LYS:HG3	2.26	0.66
2:AA:2514:U:O2'	2:AA:2515:C:O4'	2.10	0.66
2:AA:2576:G:H4'	2:AA:2577:A:H5''	1.76	0.66
2:AA:2584:U:H2'	2:AA:2585:U:OP1	1.95	0.66
2:AA:2729:G:H21	5:AE:300:VAL:HG11	1.59	0.66
2:AA:2758:A:N3	2:AA:2758:A:H2'	2.07	0.66
2:AA:2833:G:H8	2:AA:2833:G:OP1	1.77	0.66
3:AC:76:ALA:HB1	3:AC:86:ALA:CB	2.24	0.66
6:AF:52:ALA:CA	6:AF:55:ARG:HE	2.09	0.66
6:AF:162:VAL:HG12	6:AF:163:HIS:N	2.10	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:76:VAL:CG2	9:AI:121:ALA:HB2	2.22	0.66
9:AJ:66:PHE:CE2	9:AJ:92:VAL:HG13	2.31	0.66
11:AL:28:LEU:HB3	11:AL:33:VAL:HB	1.78	0.66
11:AL:79:LEU:HD23	11:AL:79:LEU:C	2.20	0.66
13:AN:34:ASN:O	13:AN:35:ILE:C	2.37	0.66
13:AN:120:GLU:HG2	13:AN:122:ILE:CD1	2.25	0.66
14:AO:64:ILE:HB	14:AO:107:LYS:O	1.95	0.66
15:AP:117:GLY:O	15:AP:118:ALA:HB3	1.94	0.66
15:AP:137:ARG:HD3	15:AP:138:ARG:N	2.10	0.66
16:AQ:120:GLU:HA	16:AQ:123:ILE:CD1	2.26	0.66
18:AS:22:ASP:O	18:AS:25:ARG:HB2	1.95	0.66
18:AS:96:ILE:HD12	18:AS:96:ILE:C	2.19	0.66
21:AV:40:ASP:CB	21:AV:41:ARG:HH21	2.07	0.66
21:AV:69:VAL:CG2	21:AV:81:VAL:HG13	2.26	0.66
21:AV:168:VAL:O	21:AV:169:VAL:HG23	1.94	0.66
24:A0:116:LEU:HD12	24:A0:116:LEU:O	1.95	0.66
25:A1:57:PHE:O	25:A1:58:ARG:C	2.37	0.66
31:A7:18:PHE:O	31:A7:19:ARG:C	2.38	0.66
34:BA:37:U:H1'	34:BA:548:G:N2	2.10	0.66
34:BA:190(I):G:H2'	34:BA:190(J):U:H6	1.58	0.66
34:BA:518:C:O2'	34:BA:519:C:OP2	2.13	0.66
34:BA:830:G:C2	34:BA:857:C:C2	2.84	0.66
34:BA:987:G:O2'	34:BA:988:G:H5'	1.95	0.66
34:BA:1228:C:H4'	48:BP:115:LYS:O	1.95	0.66
34:BA:1289:A:H2'	34:BA:1290:G:O5'	1.96	0.66
34:BA:1396:A:O4'	34:BA:1398:A:H1'	1.95	0.66
34:BA:1447:G:O2'	34:BA:1448:C:H5'	1.94	0.66
35:BB:64:A:C6	35:BB:65:G:C6	2.83	0.66
35:BC:8:U:O4'	35:BC:48:C:O2'	2.12	0.66
36:B1:56:A:H2'	36:B1:56:A:N3	2.09	0.66
38:BF:11:ARG:HG3	38:BF:11:ARG:HH11	1.59	0.66
38:BF:139:GLN:HA	38:BF:139:GLN:NE2	2.07	0.66
39:BG:11:LEU:O	39:BG:12:CYS:C	2.38	0.66
39:BG:152:SER:C	39:BG:154:ASN:N	2.45	0.66
41:BI:80:ARG:HG2	41:BI:80:ARG:NH1	2.11	0.66
42:BJ:149:ARG:O	42:BJ:152:ALA:N	2.22	0.66
43:BK:6:ILE:CD1	43:BK:7:ALA:N	2.57	0.66
43:BK:109:ILE:HD11	43:BK:111:ILE:HD11	1.77	0.66
46:BN:84:VAL:CG2	46:BN:110:ASP:HA	2.24	0.66
48:BP:14:ARG:N	48:BP:44:ARG:NE	2.43	0.66
50:BR:26:GLU:CD	50:BR:26:GLU:H	2.02	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:64:ARG:CG	50:BR:65:ARG:N	2.59	0.66
53:BU:30:ASP:C	53:BU:32:ARG:H	2.04	0.66
54:BV:18:LYS:HA	54:BV:18:LYS:CE	2.25	0.66
55:BW:13:LEU:O	55:BW:14:LYS:C	2.38	0.66
2:AA:122:G:N2	2:AA:130:C:H1'	2.11	0.66
2:AA:126:A:N7	2:AA:127:A:C5	2.63	0.66
2:AA:258:G:H8	2:AA:258:G:O5'	1.78	0.66
2:AA:627:A:OP2	2:AA:627:A:C4'	2.44	0.66
2:AA:644:A:O2'	2:AA:646:A:N7	2.28	0.66
2:AA:749:C:H6	2:AA:749:C:H3'	1.57	0.66
2:AA:869:G:H2'	2:AA:870:A:C5'	2.25	0.66
2:AA:987:G:H8	2:AA:987:G:O5'	1.78	0.66
2:AA:1005:C:C6	2:AA:1143:A:OP1	2.47	0.66
2:AA:1156:A:C2	25:A1:51:ARG:CZ	2.78	0.66
2:AA:1290:C:H2'	2:AA:1291:C:H6	1.60	0.66
2:AA:1422:G:C2	2:AA:1423:G:C5	2.84	0.66
2:AA:1441:G:H2'	2:AA:1442:G:H5'	1.76	0.66
2:AA:1664:A:O5'	2:AA:1664:A:C8	2.47	0.66
2:AA:1675:C:N4	5:AE:224:GLY:O	2.29	0.66
2:AA:1727:U:O2	2:AA:1733:G:O6	2.14	0.66
2:AA:1819:A:O2'	2:AA:1820:U:OP2	2.12	0.66
2:AA:1854:A:N3	2:AA:2087:G:N2	2.43	0.66
2:AA:1993:U:H4'	5:AE:228:ARG:CZ	2.24	0.66
2:AA:2142:C:H2'	2:AA:2142:C:O2	1.93	0.66
2:AA:2378:A:O2'	16:AQ:29:SER:O	2.08	0.66
2:AA:2730:C:C4'	5:AE:265:ASN:HD21	1.97	0.66
2:AA:2788:C:H4'	2:AA:2810:A:H5'	1.76	0.66
2:AA:2834:G:O6	2:AA:2835:A:H2	1.78	0.66
3:AC:47:LEU:O	3:AC:49:ILE:HG12	1.95	0.66
3:AC:75:LEU:CD2	3:AC:103:ILE:HD11	2.26	0.66
3:AC:110:PHE:HE1	3:AC:136:LEU:HD22	1.61	0.66
3:AC:117:PRO:O	3:AC:118:ASP:CG	2.38	0.66
3:AC:225:ASN:C	3:AC:227:HIS:H	2.04	0.66
4:AD:135:PRO:O	4:AD:138:THR:OG1	2.11	0.66
5:AE:79:ARG:HA	5:AE:186:GLU:CA	2.26	0.66
5:AE:204:VAL:O	5:AE:303:PRO:HD3	1.94	0.66
6:AF:215:ALA:HA	6:AF:242:GLU:CG	2.24	0.66
7:AG:105:SER:CB	7:AG:130:VAL:O	2.43	0.66
8:AH:87:GLU:CD	8:AH:89:VAL:HG23	2.20	0.66
9:AI:66:PHE:CE2	9:AI:92:VAL:HG13	2.30	0.66
10:AK:3:VAL:HG12	10:AK:19:LYS:H	1.61	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:35:ILE:N	13:AN:35:ILE:CD1	2.51	0.66
14:AO:66:VAL:HG12	14:AO:67:ARG:H	1.58	0.66
16:AQ:38:LYS:HZ1	16:AQ:114:LYS:CD	2.06	0.66
16:AQ:115:VAL:O	16:AQ:119:GLN:HG3	1.95	0.66
17:AR:53:ASP:O	17:AR:56:ARG:CD	2.44	0.66
19:AT:42:GLU:OE1	19:AT:49:VAL:HG23	1.96	0.66
21:AV:40:ASP:C	21:AV:44:ARG:HG2	2.19	0.66
21:AV:107:GLU:O	21:AV:109:GLN:N	2.28	0.66
22:AW:19:GLU:HG2	22:AW:23:LEU:HD11	1.77	0.66
22:AW:27:LEU:O	22:AW:30:ALA:HB3	1.96	0.66
24:A0:83:ILE:CG2	24:A0:86:ARG:HE	2.09	0.66
27:A3:14:ARG:H	27:A3:14:ARG:NH1	1.92	0.66
27:A3:68:VAL:O	27:A3:70:ILE:N	2.27	0.66
29:A5:34:PRO:CG	29:A5:35:GLN:N	2.57	0.66
33:A9:20:HIS:C	33:A9:22:ARG:N	2.50	0.66
34:BA:169:C:H2'	34:BA:170:U:C6	2.30	0.66
34:BA:286:G:H2'	34:BA:287:U:H6	1.60	0.66
34:BA:898:G:C6	34:BA:902:G:O6	2.47	0.66
34:BA:923:A:H2'	34:BA:924:C:C6	2.30	0.66
34:BA:1062:U:C2'	34:BA:1063:C:C6	2.69	0.66
34:BA:1414:U:C2	34:BA:1415:G:N7	2.64	0.66
35:BB:30:G:C8	35:BB:30:G:O5'	2.48	0.66
35:BC:11:C:O2'	35:BC:12:U:H5'	1.94	0.66
35:BC:34:G:C2'	35:BC:35:A:H5''	2.25	0.66
37:BE:79:ASP:O	37:BE:83:MET:HG2	1.95	0.66
38:BF:97:LYS:O	38:BF:98:ASN:O	2.12	0.66
39:BG:26:CYS:C	39:BG:31:CYS:HB2	2.20	0.66
40:BH:72:GLN:O	40:BH:73:ASN:CB	2.43	0.66
41:BI:6:VAL:HG13	41:BI:63:TYR:H	1.59	0.66
42:BJ:16:LEU:O	42:BJ:17:VAL:HG23	1.96	0.66
46:BN:27:ASN:ND2	46:BN:55:LYS:NZ	2.43	0.66
47:BO:100:ILE:HD13	47:BO:100:ILE:N	2.10	0.66
49:BQ:17:LYS:HG3	49:BQ:18:VAL:N	2.08	0.66
49:BQ:23:ARG:H	49:BQ:33:VAL:CG2	2.08	0.66
52:BT:31:LEU:O	52:BT:32:TYR:CD2	2.47	0.66
52:BT:57:VAL:HG23	52:BT:58:GLU:N	2.09	0.66
52:BT:86:GLU:OE2	52:BT:89:LEU:HD12	1.96	0.66
54:BV:66:MET:HB2	54:BV:74:PHE:CE2	2.31	0.66
2:AA:83:G:O2'	2:AA:84:A:P	2.54	0.66
2:AA:125:G:H3'	31:A7:19:ARG:CZ	2.25	0.66
2:AA:197:A:H61	2:AA:248:G:H22	1.41	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:237:C:C5	2:AA:238:C:H5	2.14	0.66
2:AA:272:G:H1	2:AA:365:C:N4	1.93	0.66
2:AA:410:G:C2	2:AA:2407:G:N7	2.63	0.66
2:AA:457:A:C1'	2:AA:459:U:O2	2.44	0.66
2:AA:529:A:C2'	2:AA:530:G:C8	2.75	0.66
2:AA:536:A:H8	2:AA:536:A:O5'	1.78	0.66
2:AA:711:G:O2'	2:AA:712:G:H5'	1.96	0.66
2:AA:867:C:O2	2:AA:867:C:H2'	1.95	0.66
2:AA:902:C:O2'	2:AA:903:C:H5'	1.95	0.66
2:AA:941:A:C2	2:AA:942:G:H1'	2.30	0.66
2:AA:1029:A:O2'	2:AA:1030:G:P	2.53	0.66
2:AA:1031:G:H4'	33:A9:8:LYS:NZ	2.09	0.66
2:AA:1060:U:H5''	2:AA:1061:U:C4	2.31	0.66
2:AA:1191:G:H2'	2:AA:1192:G:H8	1.59	0.66
2:AA:1213:A:C2	2:AA:1237:A:H1'	2.30	0.66
2:AA:1413:G:O2'	2:AA:1414:G:H5'	1.95	0.66
2:AA:1707:G:H1'	2:AA:1756:G:H1'	1.77	0.66
2:AA:1846:G:N2	2:AA:1895:C:C2	2.62	0.66
2:AA:1999:C:O2'	2:AA:2000:G:H5'	1.95	0.66
2:AA:2013:A:OP1	18:AS:96:ILE:CB	2.43	0.66
2:AA:2190:G:O2'	2:AA:2191:G:H5'	1.94	0.66
2:AA:2291:U:H2'	2:AA:2292:C:C6	2.31	0.66
2:AA:2400:G:O3'	30:A6:20:PHE:CZ	2.48	0.66
2:AA:2570:G:H5''	2:AA:2571:C:OP2	1.95	0.66
2:AA:2617:C:N3	2:AA:2618:G:C8	2.63	0.66
2:AA:2793:G:H1	2:AA:2803:C:H42	1.44	0.66
2:AA:2797:U:C4'	2:AA:2797:U:OP1	2.43	0.66
2:AA:2861:G:C2'	2:AA:2862:G:O5'	2.43	0.66
6:AF:39:GLN:H	6:AF:39:GLN:CD	2.03	0.66
7:AG:140:ARG:HD2	7:AG:144:ARG:HH22	1.60	0.66
9:AI:72:GLN:HA	9:AI:75:LYS:CD	2.25	0.66
9:AJ:71:ILE:HG12	11:AL:62:GLU:H	1.59	0.66
9:AJ:72:GLN:HA	9:AJ:75:LYS:CD	2.26	0.66
11:AL:28:LEU:HD11	11:AL:58:ILE:CD1	2.25	0.66
15:AP:15:THR:H	15:AP:20:ILE:HD13	1.58	0.66
15:AP:64:ALA:HA	15:AP:142:LYS:HG2	1.77	0.66
16:AQ:81:ALA:HB3	16:AQ:117:ALA:CB	2.23	0.66
18:AS:14:PRO:O	18:AS:17:VAL:HB	1.96	0.66
21:AV:54:ILE:CG2	21:AV:55:THR:N	2.59	0.66
25:A1:25:TRP:O	25:A1:28:ARG:NH1	2.28	0.66
28:A4:16:TYR:HE1	28:A4:37:SER:HG	1.43	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:A6:13:GLU:O	30:A6:52:GLU:O	2.14	0.66
31:A7:38:GLY:O	31:A7:40:HIS:CE1	2.48	0.66
34:BA:579:G:H2'	34:BA:580:U:C5'	2.25	0.66
34:BA:625:G:H4'	51:BS:16:HIS:CG	2.30	0.66
34:BA:668:G:H1'	50:BR:46:HIS:HE2	1.56	0.66
34:BA:755:G:H2'	34:BA:756:C:C6	2.30	0.66
34:BA:902:G:N2	34:BA:903:G:H1'	2.11	0.66
34:BA:1300:G:C2	34:BA:1335:C:C2	2.83	0.66
34:BA:1301:U:O4	34:BA:1303:C:H1'	1.95	0.66
34:BA:1470:G:O2'	34:BA:1471:G:C5'	2.42	0.66
35:BC:57:G:H2'	35:BC:58:A:H5''	1.77	0.66
37:BE:69:LEU:HD12	37:BE:162:ILE:CB	2.23	0.66
38:BF:16:ARG:HH22	38:BF:184:TYR:N	1.93	0.66
39:BG:123:HIS:HB2	39:BG:125:HIS:NE2	2.09	0.66
42:BJ:68:ASN:HD21	42:BJ:128:ALA:CA	2.00	0.66
45:BM:51:ARG:HA	49:BQ:45:ARG:NE	2.10	0.66
47:BO:46:LYS:O	47:BO:48:PRO:O	2.14	0.66
50:BR:27:VAL:O	50:BR:31:LEU:HB2	1.95	0.66
54:BV:62:ILE:HG13	54:BV:63:THR:H	1.60	0.66
1:AB:42:C:H5'	7:AG:48:MET:CG	2.26	0.66
2:AA:138:G:C6	2:AA:142:G:O2'	2.48	0.66
2:AA:245:G:P	14:AO:53:ARG:HD3	2.35	0.66
2:AA:270(X):G:O2'	2:AA:272:G:H4'	1.96	0.66
2:AA:286:C:O5'	2:AA:286:C:H6	1.78	0.66
2:AA:641:C:H3'	2:AA:641:C:OP2	1.95	0.66
2:AA:705:A:H2'	2:AA:705:A:N3	2.11	0.66
2:AA:729:G:O6	4:AD:207:ALA:HA	1.96	0.66
2:AA:740:U:C5	2:AA:741:G:N7	2.64	0.66
2:AA:828:U:H2'	2:AA:829:A:H8	1.52	0.66
2:AA:869:G:N1	2:AA:908:C:N4	2.34	0.66
2:AA:979:G:C8	2:AA:979:G:C3'	2.79	0.66
2:AA:1102:C:C1'	2:AA:1103:A:C8	2.78	0.66
2:AA:1137:G:O2'	12:AM:85:GLY:HA3	1.95	0.66
2:AA:1160:G:O2'	2:AA:1161:C:H5'	1.95	0.66
2:AA:1183:G:H5''	23:AX:29:ARG:CZ	2.25	0.66
2:AA:1265:A:OP2	2:AA:2615:U:OP1	2.14	0.66
2:AA:1375:C:H2'	2:AA:1376:C:H6	1.60	0.66
2:AA:1570:A:N6	2:AA:1571:A:H62	1.92	0.66
2:AA:1580:A:H2'	2:AA:1581:G:C4	2.30	0.66
2:AA:1655:A:OP2	2:AA:1655:A:O4'	2.13	0.66
2:AA:1669:A:H4'	2:AA:2550:G:OP1	1.95	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1750:G:O2'	2:AA:1751:C:H5'	1.94	0.66
2:AA:1819:A:C8	4:AD:177:SER:OG	2.49	0.66
2:AA:2252:G:O2'	2:AA:2253:G:H5'	1.96	0.66
2:AA:2264:C:C4	2:AA:2265:U:C5	2.83	0.66
2:AA:2354:G:C1'	27:A3:31:VAL:HG13	2.26	0.66
2:AA:2364:C:C5'	27:A3:38:VAL:HG13	2.26	0.66
2:AA:2727:G:C4'	13:AN:70:ARG:NH2	2.58	0.66
2:AA:2787:C:H2'	2:AA:2788:C:H6	1.59	0.66
4:AD:90:ILE:CG1	4:AD:105:ALA:H	2.08	0.66
5:AE:299:SER:OG	5:AE:301:PRO:CD	2.38	0.66
6:AF:45:ASP:HB3	6:AF:98:ARG:CD	2.26	0.66
6:AF:193:LEU:HB2	6:AF:233:THR:HG21	1.75	0.66
7:AG:27:ILE:C	7:AG:29:HIS:H	2.03	0.66
8:AH:8:ILE:HG22	8:AH:9:GLU:N	2.09	0.66
8:AH:9:GLU:C	8:AH:49:ILE:HD11	2.20	0.66
8:AH:87:GLU:H	8:AH:148:ARG:HH21	1.41	0.66
10:AK:7:LYS:CB	10:AK:14:LYS:HE2	2.26	0.66
10:AK:110:LEU:CG	10:AK:114:LYS:HZ1	2.07	0.66
11:AL:12:GLN:O	11:AL:13:LEU:HD23	1.95	0.66
12:AM:21:ARG:HA	12:AM:24:SER:OG	1.96	0.66
13:AN:10:VAL:CG1	13:AN:12:ASP:O	2.42	0.66
14:AO:67:ARG:HE	14:AO:67:ARG:H	1.31	0.66
14:AO:94:ARG:NH2	14:AO:118:LEU:O	2.29	0.66
14:AO:116:HIS:CD2	14:AO:118:LEU:HD11	2.31	0.66
15:AP:31:PHE:CA	15:AP:85:ILE:HD11	2.14	0.66
15:AP:140:TYR:O	15:AP:141:MET:C	2.37	0.66
17:AR:22:VAL:HG12	17:AR:28:THR:HB	1.77	0.66
18:AS:24:ILE:HB	18:AS:32:ALA:HB1	1.75	0.66
21:AV:118:HIS:CE1	21:AV:167:THR:C	2.73	0.66
24:A0:37:THR:H	24:A0:40:LYS:HB2	1.61	0.66
24:A0:86:ARG:NH1	24:A0:118:GLU:OE1	2.24	0.66
24:A0:89:ASP:CG	24:A0:90:ARG:N	2.52	0.66
25:A1:55:ARG:CG	25:A1:58:ARG:HE	2.09	0.66
25:A1:59:ARG:CA	25:A1:62:ILE:HG12	2.25	0.66
26:A2:69:ILE:HG23	26:A2:90:PHE:O	1.94	0.66
26:A2:78:VAL:HG23	26:A2:82:ARG:CB	2.18	0.66
27:A3:25:LYS:H	27:A3:58:THR:HB	1.60	0.66
34:BA:59:A:C2	34:BA:331:G:C2	2.83	0.66
34:BA:69:G:H2'	34:BA:70:G:H8	1.60	0.66
34:BA:112:G:C2'	34:BA:113:G:H5'	2.26	0.66
34:BA:135:C:H3'	34:BA:135:C:C6	2.30	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:250:A:C2	34:BA:274:A:N1	2.62	0.66
34:BA:389:A:H2'	34:BA:390:C:O5'	1.94	0.66
34:BA:528:C:N4	47:BO:49:ASN:ND2	2.42	0.66
34:BA:609:A:H2'	34:BA:610:G:O4'	1.95	0.66
34:BA:737:A:OP1	41:BI:91:VAL:CA	2.42	0.66
34:BA:819:A:C2	34:BA:1529:G:O6	2.48	0.66
34:BA:881:G:C6	34:BA:882:C:C4	2.83	0.66
34:BA:1068:G:C8	34:BA:1094:G:C8	2.84	0.66
34:BA:1133:G:N2	34:BA:1141:C:N3	2.39	0.66
34:BA:1201:A:O2'	34:BA:1202:G:H5'	1.95	0.66
38:BF:29:TYR:O	38:BF:32:LEU:HB2	1.96	0.66
39:BG:128:VAL:HG12	39:BG:129:ASN:C	2.20	0.66
40:BH:18:ARG:O	40:BH:25:ARG:O	2.14	0.66
40:BH:91:LEU:HD21	40:BH:118:ILE:CG2	2.26	0.66
41:BI:25:ILE:O	41:BI:28:ARG:HB2	1.95	0.66
41:BI:45:LEU:CD2	41:BI:59:TYR:HD1	2.08	0.66
42:BJ:116:ALA:O	42:BJ:117:ALA:C	2.38	0.66
45:BM:40:LEU:HD11	45:BM:71:LEU:HG	1.77	0.66
45:BM:60:ARG:HB2	45:BM:60:ARG:HH11	1.60	0.66
46:BN:20:TYR:CZ	46:BN:83:ILE:HG12	2.30	0.66
47:BO:6:THR:OG1	47:BO:9:GLN:CG	2.44	0.66
47:BO:7:ILE:HA	47:BO:10:LEU:HD12	1.76	0.66
47:BO:55:VAL:O	47:BO:70:ILE:HD11	1.96	0.66
49:BQ:24:CYS:SG	49:BQ:27:CYS:N	2.69	0.66
54:BV:15:LEU:O	54:BV:16:LEU:C	2.38	0.66
2:AA:199:A:H2'	2:AA:2433:A:N6	2.09	0.66
2:AA:297:C:N3	2:AA:298:G:H1'	2.11	0.66
2:AA:563:G:N2	25:A1:37:GLN:NE2	2.31	0.66
2:AA:624:C:O2	2:AA:624:C:C2'	2.38	0.66
2:AA:675:A:C2'	2:AA:676:A:H5'	2.24	0.66
2:AA:769:G:C2	2:AA:770:G:C8	2.84	0.66
2:AA:957:A:C2	2:AA:2459:A:H5'	2.29	0.66
2:AA:973:A:H61	26:A2:81:ARG:HG3	1.60	0.66
2:AA:1028:A:O2'	2:AA:1029:A:H5'	1.96	0.66
2:AA:1029:A:HO2'	2:AA:1030:G:P	2.19	0.66
2:AA:1063:G:H2'	2:AA:1064:C:C6	2.30	0.66
2:AA:1102:C:C2'	2:AA:1103:A:H8	2.08	0.66
2:AA:1239:G:C4	2:AA:1240:U:C5	2.83	0.66
2:AA:1472:A:H2'	2:AA:1473:G:C8	2.29	0.66
2:AA:1636:C:C1'	2:AA:1761:C:H1'	2.26	0.66
2:AA:1699:G:N7	2:AA:1763:G:N2	2.44	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1995:U:OP1	5:AE:220:GLN:NE2	2.29	0.66
2:AA:2067:G:N1	2:AA:2443:C:N4	2.28	0.66
2:AA:2137:C:H3'	2:AA:2138:C:C6	2.31	0.66
2:AA:2261:C:H5'	2:AA:2388:A:H4'	1.77	0.66
2:AA:2316:C:O2'	7:AG:151:ILE:HG13	1.96	0.66
2:AA:2512:C:H5''	5:AE:219:VAL:CG1	2.25	0.66
2:AA:2531:A:H2'	2:AA:2532:G:H5'	1.77	0.66
2:AA:2533:A:OP1	2:AA:2665:A:H1'	1.96	0.66
3:AC:28:LEU:HD12	3:AC:28:LEU:O	1.95	0.66
3:AC:75:LEU:HD11	3:AC:107:TRP:HH2	1.59	0.66
3:AC:123:VAL:O	3:AC:137:LEU:HD21	1.96	0.66
4:AD:90:ILE:HD12	4:AD:105:ALA:HB2	1.77	0.66
4:AD:118:GLY:O	4:AD:119:PRO:C	2.39	0.66
4:AD:162:GLN:OE1	4:AD:174:ARG:HB3	1.96	0.66
5:AE:216:ARG:HD3	5:AE:253:GLN:CA	2.24	0.66
8:AH:119:GLY:O	8:AH:121:GLU:OE2	2.14	0.66
9:AI:103:LYS:CB	9:AI:114:ILE:HD13	2.26	0.66
9:AJ:18:LEU:HD13	9:AJ:45:ALA:N	2.10	0.66
10:AK:66:LYS:O	10:AK:69:LYS:HE2	1.96	0.66
10:AK:95:SER:OG	10:AK:98:ILE:CD1	2.43	0.66
10:AK:111:ASP:CB	10:AK:114:LYS:HG2	2.26	0.66
11:AL:75:ALA:CA	11:AL:112:LYS:HZ2	2.08	0.66
12:AM:12:VAL:O	12:AM:38:VAL:CA	2.42	0.66
14:AO:104:ASP:O	14:AO:105:TYR:CG	2.49	0.66
16:AQ:35:VAL:HG11	16:AQ:37:ARG:NE	2.09	0.66
16:AQ:122:ALA:O	16:AQ:125:ALA:HB3	1.95	0.66
17:AR:53:ASP:O	17:AR:56:ARG:CZ	2.43	0.66
18:AS:58:ALA:O	18:AS:63:ASP:N	2.28	0.66
20:AU:42:VAL:HA	20:AU:112:LEU:CD1	2.18	0.66
23:AX:16:PRO:HB2	23:AX:19:GLN:HG2	1.76	0.66
32:A8:23:MET:HE1	32:A8:48:PHE:CG	2.30	0.66
34:BA:155:C:H2'	34:BA:156:G:H8	1.59	0.66
34:BA:333:G:H4'	55:BW:16:HIS:HE2	1.60	0.66
34:BA:496:A:H4'	34:BA:497:A:O5'	1.96	0.66
34:BA:541:G:H2'	34:BA:542:G:H8	1.60	0.66
34:BA:575:G:N2	34:BA:880:C:C2	2.60	0.66
34:BA:649:G:H2'	34:BA:650:G:C8	2.31	0.66
34:BA:704:A:H2'	34:BA:705:U:H6	1.60	0.66
34:BA:1172:C:H2'	34:BA:1173:G:C8	2.24	0.66
34:BA:1248:A:N6	34:BA:1249:C:H42	1.93	0.66
34:BA:1278:U:C5'	34:BA:1279:A:O4'	2.44	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1326:C:H2'	34:BA:1327:C:H6	1.59	0.66
34:BA:1425:U:H3	34:BA:1475:G:H1	1.43	0.66
35:BC:48:C:H5'	35:BC:49:C:O5'	1.95	0.66
37:BE:212:GLN:NE2	37:BE:215:LEU:HB3	2.11	0.66
39:BG:8:VAL:O	39:BG:11:LEU:N	2.27	0.66
42:BJ:77:SER:O	42:BJ:156:TRP:CH2	2.49	0.66
42:BJ:142:GLU:O	42:BJ:145:ALA:O	2.13	0.66
43:BK:38:ILE:HA	43:BK:41:ARG:CB	2.26	0.66
43:BK:63:LEU:HB2	43:BK:65:TYR:CZ	2.31	0.66
45:BM:49:VAL:HG21	49:BQ:44:LEU:HD21	1.78	0.66
49:BQ:13:THR:C	49:BQ:15:LYS:H	2.04	0.66
51:BS:7:ALA:HB1	51:BS:9:PHE:HE2	1.61	0.66
52:BT:92:ARG:O	52:BT:95:TYR:N	2.28	0.66
53:BU:61:LYS:O	53:BU:65:ILE:HG12	1.96	0.66
54:BV:64:GLU:CG	54:BV:65:ASN:N	2.59	0.66
1:AB:28:C:OP1	16:AQ:42:HIS:CE1	2.49	0.66
2:AA:30:G:OP2	25:A1:5:LYS:HD3	1.96	0.66
2:AA:152:G:H5''	2:AA:153:C:OP2	1.95	0.66
2:AA:290:G:H22	2:AA:350:U:H2'	1.60	0.66
2:AA:331:A:C5	2:AA:1209:G:C2	2.84	0.66
2:AA:365:C:C4	2:AA:366:C:C5	2.83	0.66
2:AA:386:G:O2'	2:AA:387:U:P	2.54	0.66
2:AA:414:C:C4'	2:AA:1863:G:H21	2.09	0.66
2:AA:458:G:C2'	2:AA:469:G:H1	2.09	0.66
2:AA:775:G:H2'	2:AA:794:G:C8	2.28	0.66
2:AA:957:A:C8	2:AA:959:A:C8	2.82	0.66
2:AA:996:A:C5	2:AA:1160:G:N1	2.63	0.66
2:AA:1129:A:O2'	2:AA:2515:C:H2'	1.96	0.66
2:AA:1198:U:H2'	2:AA:1199:U:C6	2.31	0.66
2:AA:1332:G:N9	2:AA:1609:A:N1	2.43	0.66
2:AA:1529:A:C2	2:AA:1530:G:H4'	2.31	0.66
2:AA:1683:C:H42	2:AA:1684:C:N4	1.94	0.66
2:AA:1725:G:C2	2:AA:1726:G:C8	2.84	0.66
2:AA:1837:C:N3	2:AA:1903:G:N2	2.35	0.66
2:AA:1924:C:C2	2:AA:1925:C:C5	2.82	0.66
2:AA:1967:C:H2'	2:AA:1967:C:O2	1.94	0.66
2:AA:2027:G:H2'	2:AA:2028:U:H6	1.59	0.66
2:AA:2043:C:O2'	2:AA:2044:C:O5'	2.14	0.66
2:AA:2076:U:O2'	2:AA:2077:A:H5''	1.96	0.66
2:AA:2398:U:H2'	2:AA:2399:G:C8	2.29	0.66
2:AA:2718:G:H2'	2:AA:2719:G:H8	1.61	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2791:C:N3	2:AA:2805:G:C6	2.64	0.66
4:AD:128:ALA:HB2	4:AD:190:THR:CA	2.26	0.66
4:AD:194:VAL:HG21	4:AD:196:ASN:ND2	2.10	0.66
5:AE:85:ALA:O	5:AE:96:LEU:O	2.14	0.66
5:AE:213:PRO:HB2	5:AE:235:ILE:HG12	1.76	0.66
5:AE:269:ILE:HG23	5:AE:297:LYS:HZ2	1.59	0.66
6:AF:93:LYS:CB	6:AF:96:LYS:HG3	2.24	0.66
6:AF:151:GLN:O	6:AF:154:VAL:HB	1.96	0.66
7:AG:14:ARG:HA	7:AG:137:PRO:CD	2.25	0.66
7:AG:40:ILE:O	7:AG:44:ILE:HG13	1.96	0.66
7:AG:96:SER:C	7:AG:98:PHE:N	2.54	0.66
8:AH:10:ILE:HD12	8:AH:49:ILE:HG13	1.76	0.66
8:AH:43:THR:HG1	8:AH:50:THR:C	2.04	0.66
10:AK:104:ALA:HB1	10:AK:105:GLN:HE22	1.60	0.66
11:AL:11:LEU:HD12	11:AL:58:ILE:HD12	1.77	0.66
11:AL:93:LYS:HD3	11:AL:96:ILE:HD12	1.78	0.66
11:AL:114:PRO:C	11:AL:116:LEU:N	2.52	0.66
11:AL:129:GLU:HB2	11:AL:139:VAL:HG11	1.76	0.66
12:AM:17:CYS:SG	12:AM:44:ALA:HB1	2.36	0.66
15:AP:59:ASN:O	15:AP:60:ALA:C	2.39	0.66
16:AQ:104:ILE:HG21	16:AQ:109:PRO:CD	2.14	0.66
21:AV:149:ALA:HA	21:AV:152:ILE:HD11	1.77	0.66
23:AX:12:PRO:O	23:AX:13:ILE:C	2.39	0.66
24:A0:26:LYS:HE2	24:A0:70:LEU:O	1.96	0.66
24:A0:99:LYS:C	29:A5:44:HIS:NE2	2.54	0.66
25:A1:7:GLY:CA	25:A1:8:ILE:HD12	2.26	0.66
25:A1:50:ARG:CZ	26:A2:74:TYR:HD2	2.09	0.66
26:A2:21:ARG:O	26:A2:22:VAL:O	2.13	0.66
32:A8:23:MET:HE2	32:A8:23:MET:CA	2.21	0.66
34:BA:5:U:C4	39:BG:86:LYS:CE	2.71	0.66
34:BA:189:G:H2'	34:BA:190:C:C5	2.31	0.66
34:BA:476:G:H21	34:BA:477:G:H1'	1.61	0.66
34:BA:533:A:N7	34:BA:536:C:N4	2.44	0.66
34:BA:665:A:C2	34:BA:732:C:C4	2.84	0.66
34:BA:668:G:H2'	34:BA:669:U:H6	1.60	0.66
34:BA:673:G:C5'	41:BI:87:ARG:NE	2.58	0.66
34:BA:921:U:HO2'	34:BA:922:G:H5'	1.61	0.66
34:BA:928:G:O2'	34:BA:1533:C:N4	2.29	0.66
34:BA:981:U:H6	34:BA:981:U:O5'	1.79	0.66
34:BA:1061:G:C2	34:BA:1197:G:C2	2.84	0.66
34:BA:1180:A:H2'	34:BA:1181:G:H5'	1.77	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1239:A:H4'	34:BA:1240:U:C5'	2.21	0.66
35:BB:59:U:O2	35:BB:60:C:O2	2.13	0.66
35:BB:65:G:H2'	35:BB:66:A:C8	2.30	0.66
37:BE:40:HIS:C	37:BE:41:ILE:HD12	2.19	0.66
37:BE:164:VAL:HG12	37:BE:186:ALA:HB2	1.77	0.66
37:BE:187:LEU:HB2	37:BE:201:ILE:HG21	1.77	0.66
39:BG:9:CYS:SG	39:BG:31:CYS:CA	2.84	0.66
43:BK:67:PRO:CD	43:BK:76:PRO:HB3	2.20	0.66
46:BN:12:ARG:HH12	46:BN:40:ILE:HA	1.58	0.66
50:BR:71:GLN:O	50:BR:75:PRO:HD3	1.96	0.66
51:BS:15:PRO:HB2	51:BS:17:TYR:HE1	1.60	0.66
54:BV:10:PHE:O	54:BV:11:VAL:HG23	1.96	0.66
2:AA:54:G:C1'	31:A7:35:ARG:NH2	2.59	0.66
2:AA:111:A:H4'	22:AW:62:GLU:OE2	1.96	0.66
2:AA:319:C:N4	2:AA:323:G:H1	1.93	0.66
2:AA:324:A:N6	2:AA:339:U:O2	2.29	0.66
2:AA:347:A:C8	2:AA:347:A:C3'	2.76	0.66
2:AA:360:G:C2'	2:AA:361:G:O4'	2.44	0.66
2:AA:825:C:O2'	2:AA:826:U:H5'	1.96	0.66
2:AA:970:C:O2	2:AA:970:C:H2'	1.95	0.66
2:AA:1133:U:O2'	2:AA:1134:G:H5''	1.96	0.66
2:AA:1144:G:H2'	2:AA:1145:C:C6	2.31	0.66
2:AA:1324:G:C4'	2:AA:1616:A:H62	2.08	0.66
2:AA:1620:G:O2'	2:AA:1621:U:H5'	1.96	0.66
2:AA:1632:A:O5'	2:AA:1632:A:C8	2.49	0.66
2:AA:1827:C:O2	2:AA:1827:C:C2'	2.44	0.66
2:AA:2046:G:OP1	29:A5:18:MET:C	2.39	0.66
2:AA:2056:G:OP2	2:AA:2504:U:OP2	2.13	0.66
2:AA:2110:G:N1	2:AA:2179:C:C2	2.63	0.66
2:AA:2231:C:C2	2:AA:2232:U:C5	2.84	0.66
2:AA:2234:G:O2'	2:AA:2235:G:H5'	1.95	0.66
2:AA:2605:U:O2'	2:AA:2606:C:C5'	2.43	0.66
2:AA:2655:G:N3	2:AA:2655:G:C2'	2.57	0.66
2:AA:2721:A:C5	2:AA:2873:A:N6	2.64	0.66
2:AA:2749:A:O4'	8:AH:62:ALA:CA	2.43	0.66
4:AD:208:GLY:O	4:AD:211:HIS:CE1	2.48	0.66
5:AE:79:ARG:NH1	5:AE:104:PHE:O	2.27	0.66
6:AF:16:VAL:HG12	6:AF:17:ASP:N	2.09	0.66
6:AF:109:LEU:O	6:AF:112:ARG:CB	2.38	0.66
8:AH:86:LEU:HA	8:AH:148:ARG:HH21	1.57	0.66
9:AI:62:VAL:HG13	9:AI:100:ALA:O	1.95	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:66:LYS:C	10:AK:69:LYS:HB3	2.21	0.66
11:AL:9:ILE:HG12	11:AL:31:HIS:CD2	2.31	0.66
12:AM:15:ARG:NH1	12:AM:43:ARG:CZ	2.59	0.66
13:AN:5:GLU:O	13:AN:6:SER:C	2.36	0.66
13:AN:17:ARG:HE	13:AN:47:THR:HA	1.60	0.66
13:AN:79:PHE:C	13:AN:81:GLU:H	2.03	0.66
15:AP:56:ILE:CG2	15:AP:61:LEU:HD13	2.22	0.66
15:AP:69:ASN:ND2	15:AP:69:ASN:C	2.54	0.66
15:AP:101:MET:HE3	15:AP:101:MET:C	2.20	0.66
18:AS:8:ARG:CG	18:AS:9:TYR:H	1.92	0.66
19:AT:34:LYS:HZ2	19:AT:52:VAL:HG12	1.60	0.66
20:AU:101:LEU:HD21	20:AU:112:LEU:HG	1.78	0.66
20:AU:101:LEU:HD22	20:AU:103:LEU:HD11	1.77	0.66
20:AU:105:ASP:CG	20:AU:108:ARG:HD2	2.20	0.66
21:AV:64:ALA:CB	21:AV:85:MET:HA	2.26	0.66
22:AW:43:PRO:HD2	22:AW:46:ILE:HG12	1.77	0.66
25:A1:107:LYS:O	25:A1:110:VAL:HB	1.95	0.66
27:A3:41:ARG:O	27:A3:67:VAL:CG2	2.44	0.66
32:A8:7:HIS:O	32:A8:10:ALA:HB3	1.96	0.66
34:BA:112:G:N2	34:BA:330:C:N4	2.43	0.66
34:BA:197:A:O2'	34:BA:198:G:C8	2.49	0.66
34:BA:198:G:O6	34:BA:220:G:C4	2.49	0.66
34:BA:583:A:C2'	34:BA:584:G:O4'	2.44	0.66
34:BA:629:G:H2'	34:BA:630:G:H8	1.61	0.66
34:BA:676:A:H2'	34:BA:677:U:C6	2.30	0.66
34:BA:825:G:N2	34:BA:875:C:N3	2.39	0.66
34:BA:986:A:H4'	54:BV:55:LYS:CG	2.23	0.66
34:BA:1169:A:N6	34:BA:1171:G:C2	2.63	0.66
34:BA:1193:G:C8	34:BA:1193:G:H3'	2.30	0.66
34:BA:1209:C:H2'	34:BA:1210:C:C5'	2.26	0.66
34:BA:1242:C:O2	34:BA:1302:U:O2	2.14	0.66
34:BA:1307:U:C5'	48:BP:109:THR:HG21	2.25	0.66
34:BA:1431:C:H2'	34:BA:1432:G:O4'	1.96	0.66
35:BC:30:G:H1	35:BC:40:C:H42	0.75	0.66
35:BC:35:A:H5'	35:BC:35:A:C8	2.25	0.66
37:BE:155:LEU:HB2	37:BE:159:PRO:HG3	1.78	0.66
39:BG:205:GLU:OE2	40:BH:100:VAL:HB	1.96	0.66
40:BH:79:GLU:O	40:BH:80:ILE:HG23	1.96	0.66
43:BK:89:PRO:HA	43:BK:92:ARG:CZ	2.25	0.66
44:BL:98:PRO:C	44:BL:100:GLY:N	2.54	0.66
44:BL:111:ARG:HD2	49:BQ:61:TRP:HE1	1.60	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:35:ARG:NH1	50:BR:59:MET:HG3	2.08	0.66
51:BS:21:VAL:HG23	51:BS:34:GLU:O	1.96	0.66
51:BS:52:ASP:OD2	51:BS:52:ASP:C	2.38	0.66
54:BV:40:ILE:HG21	54:BV:62:ILE:HD13	1.77	0.66
54:BV:80:TYR:HD1	54:BV:81:ARG:H	1.43	0.66
1:AB:82:G:C4	1:AB:83:G:C8	2.84	0.66
2:AA:530:G:O2'	2:AA:531:C:H4'	1.95	0.66
2:AA:638:G:N7	2:AA:639:U:C2	2.64	0.66
2:AA:719:C:O2'	2:AA:720:C:H5'	1.96	0.66
2:AA:1021:A:H2	2:AA:1122:G:H5''	1.60	0.66
2:AA:1035:U:C2	2:AA:1036:G:N7	2.64	0.66
2:AA:1084:A:P	9:AI:40:ALA:N	2.64	0.66
2:AA:1084:A:O4'	9:AI:38:ALA:HB3	1.94	0.66
2:AA:1582:C:C3'	2:AA:1583:A:H4'	2.26	0.66
2:AA:1779:U:O4	2:AA:1784:A:C4	2.49	0.66
2:AA:1792:G:N2	2:AA:1827:C:C2	2.61	0.66
2:AA:1794:U:H5'	2:AA:1900:A:N6	2.10	0.66
2:AA:1827:C:H1'	2:AA:1970:A:H2	1.61	0.66
2:AA:1861:G:H5'	3:AC:205:LYS:HD3	1.77	0.66
2:AA:1919:A:O2'	2:AA:1920:C:H5'	1.95	0.66
2:AA:1955:U:O2'	2:AA:1956:U:P	2.54	0.66
2:AA:2102:U:N3	2:AA:2103:C:N4	2.44	0.66
2:AA:2107:C:H6	2:AA:2107:C:O5'	1.79	0.66
2:AA:2210:G:N2	4:AD:69:ASP:OD2	2.28	0.66
2:AA:2364:C:H5''	27:A3:38:VAL:HG13	1.77	0.66
2:AA:2378:A:N3	16:AQ:26:LEU:CD2	2.59	0.66
2:AA:2674:G:H4'	13:AN:30:ARG:HG2	1.78	0.66
2:AA:2680:C:H5'	5:AE:302:GLY:HA2	1.78	0.66
2:AA:2731:G:H4'	5:AE:264:LEU:HD12	1.78	0.66
2:AA:2742:C:H5''	33:A9:35:ARG:CZ	2.26	0.66
2:AA:2766:G:C2	2:AA:2767:C:C6	2.84	0.66
2:AA:2849:U:H4'	2:AA:2850:A:H5'	1.77	0.66
3:AC:143:GLY:O	3:AC:144:THR:HG23	1.96	0.66
3:AC:166:ASP:OD2	3:AC:170:ALA:HB3	1.96	0.66
5:AE:250:VAL:C	5:AE:251:PRO:O	2.39	0.66
5:AE:270:ASP:N	5:AE:270:ASP:OD2	2.28	0.66
6:AF:148:VAL:O	6:AF:148:VAL:CG1	2.44	0.66
8:AH:101:LYS:CG	8:AH:115:GLU:HB2	2.26	0.66
9:AJ:102:ILE:CD1	9:AJ:118:LEU:HD22	2.25	0.66
11:AL:9:ILE:CD1	11:AL:31:HIS:HB3	2.25	0.66
11:AL:92:PRO:C	11:AL:94:ARG:H	2.04	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:92:GLN:HG2	12:AM:93:ARG:N	2.11	0.66
14:AO:62:ALA:HB3	14:AO:105:TYR:O	1.96	0.66
15:AP:67:ALA:O	15:AP:70:ARG:HB2	1.95	0.66
17:AR:6:CYS:O	17:AR:7:ASP:CG	2.39	0.66
19:AT:17:ASP:HA	19:AT:20:PHE:HE1	1.59	0.66
21:AV:10:PRO:HG2	21:AV:11:LYS:N	2.09	0.66
22:AW:6:GLN:O	22:AW:9:ARG:HB3	1.95	0.66
22:AW:55:ARG:HA	22:AW:58:THR:OG1	1.96	0.66
25:A1:13:ARG:O	25:A1:16:LYS:CB	2.41	0.66
25:A1:55:ARG:O	25:A1:58:ARG:N	2.28	0.66
32:A8:23:MET:CG	32:A8:46:LYS:HB3	2.26	0.66
33:A9:11:CYS:HB3	33:A9:32:HIS:HE1	1.57	0.66
34:BA:175:C:O2'	34:BA:176:C:H5'	1.95	0.66
34:BA:311:C:HO2'	34:BA:312:C:H5'	1.59	0.66
34:BA:438:G:N2	34:BA:496:A:O5'	2.28	0.66
34:BA:673:G:HO2'	34:BA:674:G:C1'	2.08	0.66
34:BA:751:U:O4'	50:BR:23:GLY:O	2.14	0.66
34:BA:809:G:C2'	34:BA:810:C:H5'	2.25	0.66
34:BA:909:A:H8	34:BA:909:A:O5'	1.79	0.66
34:BA:1424:C:N3	34:BA:1476:G:N2	2.37	0.66
35:BB:29:A:O2'	35:BB:30:G:H5'	1.95	0.66
35:BB:56:C:C6	35:BB:56:C:C4'	2.78	0.66
36:B1:60:A:C2	36:B1:61:U:C5	2.84	0.66
37:BE:80:ILE:HD12	37:BE:211:ILE:HG21	1.78	0.66
37:BE:91:PRO:CG	37:BE:155:LEU:N	2.52	0.66
39:BG:102:ASP:HA	39:BG:105:VAL:CG2	2.25	0.66
40:BH:51:VAL:HB	40:BH:52:PRO:CD	2.25	0.66
42:BJ:27:ILE:HG21	42:BJ:40:ALA:HA	1.77	0.66
43:BK:18:ARG:CA	43:BK:18:ARG:NH1	2.54	0.66
43:BK:80:ILE:H	43:BK:80:ILE:CD1	1.88	0.66
43:BK:112:LEU:HG	43:BK:133:LEU:HD23	1.77	0.66
44:BL:7:THR:H	44:BL:83:ARG:HG2	1.61	0.66
44:BL:78:LYS:HD2	44:BL:78:LYS:C	2.20	0.66
45:BM:49:VAL:O	45:BM:60:ARG:HA	1.96	0.66
48:BP:8:GLU:CD	48:BP:22:ILE:HG12	2.20	0.66
48:BP:14:ARG:H	48:BP:44:ARG:NE	1.93	0.66
48:BP:71:ARG:HA	48:BP:74:VAL:HG23	1.77	0.66
50:BR:15:PHE:CD2	50:BR:30:ALA:HB2	2.31	0.66
51:BS:74:LEU:O	51:BS:79:VAL:HG23	1.96	0.66
54:BV:47:HIS:H	54:BV:62:ILE:CG2	2.08	0.66
55:BW:74:LYS:C	55:BW:76:ALA:H	2.03	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:47:C:H2'	1:AB:48:A:H5'	1.76	0.66
1:AB:71:C:N4	1:AB:105:G:N1	2.10	0.66
1:AB:100:G:O2'	1:AB:101:A:O4'	2.13	0.66
2:AA:58:G:N1	2:AA:69:C:N4	2.44	0.66
2:AA:162:U:H5'	2:AA:171:G:H1'	1.76	0.66
2:AA:243:U:C2	2:AA:244:A:C8	2.83	0.66
2:AA:270:A:H2'	2:AA:270(A):A:O4'	1.95	0.66
2:AA:351:G:H2'	2:AA:352:G:C8	2.31	0.66
2:AA:467:G:H2'	2:AA:468:G:C5'	2.26	0.66
2:AA:623:G:H2'	2:AA:624:C:C6	2.18	0.66
2:AA:1034:G:C5'	33:A9:18:ARG:CZ	2.73	0.66
2:AA:1085:A:P	9:AI:35:ALA:H	2.18	0.66
2:AA:1283:G:N2	2:AA:1285:G:C2'	2.59	0.66
2:AA:1413:G:C2'	2:AA:1414:G:H5'	2.26	0.66
2:AA:1414:G:N2	2:AA:1588:C:C2	2.59	0.66
2:AA:1491:G:H3'	2:AA:1491:G:OP1	1.96	0.66
2:AA:1630:G:H1	2:AA:1636:C:H42	1.43	0.66
2:AA:1815:A:C2	2:AA:1817:G:C6	2.84	0.66
2:AA:1905:C:H2'	2:AA:1930:G:C5	2.30	0.66
2:AA:1927:A:C6	2:AA:1928:A:C2	2.84	0.66
2:AA:2299:G:O2'	2:AA:2300:G:H5'	1.96	0.66
2:AA:2761:G:C2'	2:AA:2762:G:H5'	2.26	0.66
2:AA:2793:G:C6	2:AA:2794:C:N4	2.64	0.66
5:AE:199:ALA:HA	5:AE:314:ALA:HA	1.78	0.66
6:AF:93:LYS:HB3	6:AF:95:GLU:O	1.96	0.66
8:AH:138:GLN:HG2	8:AH:142:GLU:OE1	1.95	0.66
9:AI:48:ALA:O	9:AI:51:ALA:HB3	1.95	0.66
11:AL:19:THR:HG23	11:AL:39:CYS:CB	2.25	0.66
11:AL:36:MET:HE1	11:AL:40:LYS:CE	2.26	0.66
13:AN:3:GLN:O	13:AN:4:GLN:C	2.35	0.66
14:AO:66:VAL:H	14:AO:67:ARG:NH2	1.94	0.66
16:AQ:108:SER:O	16:AQ:110:THR:N	2.29	0.66
19:AT:10:VAL:CG1	19:AT:15:MET:HG2	2.25	0.66
21:AV:19:ILE:CB	21:AV:39:PHE:HE1	2.09	0.66
21:AV:107:GLU:HG3	21:AV:113:VAL:HG13	1.78	0.66
21:AV:148:THR:HB	21:AV:166:LEU:O	1.96	0.66
21:AV:172:LEU:HD23	21:AV:173:PRO:O	1.96	0.66
25:A1:5:LYS:C	25:A1:7:GLY:H	2.02	0.66
25:A1:21:ALA:HA	25:A1:24:PHE:HE2	1.61	0.66
28:A4:52:THR:O	28:A4:53:GLU:HB2	1.96	0.66
29:A5:40:LYS:NZ	29:A5:49:CYS:CB	2.46	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:A7:4:THR:CA	31:A7:6:GLN:HE22	2.08	0.66
31:A7:30:ILE:CG2	31:A7:33:ARG:HD2	2.23	0.66
34:BA:42:G:H2'	34:BA:43:C:H6	1.57	0.66
34:BA:131:C:O2'	34:BA:262:A:H1'	1.95	0.66
34:BA:190(A):C:C2	34:BA:190(I):G:N2	2.64	0.66
34:BA:364:A:C2	34:BA:365:U:O4	2.49	0.66
34:BA:437:U:H5''	39:BG:155:LEU:HD13	1.77	0.66
34:BA:522:C:H41	34:BA:523:A:N6	1.93	0.66
34:BA:607:A:H2'	34:BA:608:A:C5'	2.25	0.66
34:BA:625:G:C6	34:BA:626:U:C4	2.84	0.66
34:BA:1084:G:O3'	34:BA:1086:U:C5	2.48	0.66
34:BA:1250:A:OP1	44:BL:66:ARG:HD2	1.96	0.66
34:BA:1346:A:H8	34:BA:1348:U:C2	2.14	0.66
35:BB:66:A:C6	35:BB:67:A:N6	2.64	0.66
37:BE:62:ALA:HB1	37:BE:225:ALA:HB3	1.77	0.66
38:BF:10:PHE:CE1	38:BF:178:LEU:HD22	2.31	0.66
38:BF:157:ILE:O	38:BF:159:GLY:N	2.29	0.66
38:BF:189:ALA:HB3	38:BF:196:LEU:HG	1.78	0.66
39:BG:25:ARG:HH21	39:BG:30:LYS:CD	2.08	0.66
39:BG:120:LEU:HG	39:BG:125:HIS:HB2	1.78	0.66
40:BH:76:ILE:O	40:BH:93:PRO:HB3	1.96	0.66
43:BK:18:ARG:NH2	43:BK:78:GLN:HG3	2.10	0.66
43:BK:82:HIS:HB3	43:BK:138:TRP:NE1	2.09	0.66
44:BL:67:GLY:O	44:BL:68:GLY:C	2.39	0.66
46:BN:82:VAL:N	46:BN:107:SER:O	2.29	0.66
47:BO:43:VAL:HG12	47:BO:44:THR:O	1.96	0.66
48:BP:32:GLU:HB3	48:BP:64:TRP:HZ3	1.59	0.66
51:BS:6:LEU:O	51:BS:6:LEU:HD22	1.96	0.66
53:BU:39:VAL:HG12	53:BU:40:LEU:HD23	1.78	0.66
54:BV:12:ASP:O	54:BV:15:LEU:HG	1.96	0.66
1:AB:76:G:C8	1:AB:77:U:O4	2.49	0.65
2:AA:111:A:C2'	2:AA:112:U:H5''	2.26	0.65
2:AA:163:U:H5''	2:AA:164:U:OP2	1.96	0.65
2:AA:300:A:HO2'	2:AA:318:C:H1'	1.59	0.65
2:AA:417:C:H2'	2:AA:418:G:C8	2.29	0.65
2:AA:524:U:H4'	2:AA:554:U:H4'	1.78	0.65
2:AA:558:G:OP1	12:AM:92:GLN:N	2.29	0.65
2:AA:563:G:H2'	2:AA:563:G:N3	2.11	0.65
2:AA:801:G:O2'	2:AA:802:A:P	2.54	0.65
2:AA:919:G:N2	2:AA:2268:A:C5'	2.51	0.65
2:AA:1000:A:H2'	2:AA:1001:A:O4'	1.96	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1022:G:C2	2:AA:1140:C:C6	2.83	0.65
2:AA:1068:G:N1	2:AA:1073:A:C2	2.64	0.65
2:AA:1309:G:N2	2:AA:1611:C:H5'	2.00	0.65
2:AA:1327:C:C3'	2:AA:1328:G:H8	2.08	0.65
2:AA:1669:A:H2'	2:AA:1670:C:H5''	1.76	0.65
2:AA:1770:G:H2'	2:AA:1771:C:C6	2.28	0.65
2:AA:1796:U:HO2'	2:AA:1797:C:H6	1.42	0.65
2:AA:1935:G:C2	2:AA:1962:C:C6	2.84	0.65
2:AA:1995:U:C6	2:AA:1996:C:C5	2.84	0.65
2:AA:2020:A:N6	2:AA:2022:U:N3	2.45	0.65
2:AA:2075:U:C6	2:AA:2597:G:N2	2.63	0.65
2:AA:2093:G:H1'	2:AA:2198:A:N1	2.10	0.65
2:AA:2123:G:C6	2:AA:2175:C:C2	2.84	0.65
2:AA:2246:G:N2	2:AA:2247:A:C4	2.64	0.65
2:AA:2331:G:O2'	27:A3:70:ILE:CG2	2.43	0.65
2:AA:2331:G:C4'	27:A3:70:ILE:HG13	2.26	0.65
2:AA:2392:A:C2	2:AA:2429:G:C4	2.83	0.65
2:AA:2768:C:C2	2:AA:2769:C:C6	2.84	0.65
4:AD:146:LYS:O	4:AD:148:GLY:N	2.29	0.65
5:AE:62:ARG:O	5:AE:63:GLU:OE2	2.13	0.65
6:AF:55:ARG:CA	6:AF:79:ARG:NE	2.59	0.65
6:AF:106:GLU:O	6:AF:109:LEU:HB2	1.96	0.65
7:AG:22:VAL:CB	7:AG:24:HIS:NE2	2.56	0.65
7:AG:141:VAL:HA	7:AG:144:ARG:HH11	1.61	0.65
9:AJ:77:VAL:HG13	9:AJ:102:ILE:HG13	1.78	0.65
10:AK:12:LYS:NZ	10:AK:14:LYS:HE3	2.11	0.65
11:AL:52:MET:HE3	11:AL:53:ILE:H	1.61	0.65
11:AL:79:LEU:HD13	11:AL:137:ILE:HD13	1.78	0.65
15:AP:123:ILE:HG22	15:AP:124:ALA:N	2.09	0.65
15:AP:139:ALA:C	15:AP:142:LYS:HB3	2.21	0.65
20:AU:19:ARG:HH11	20:AU:19:ARG:CB	2.08	0.65
21:AV:145:ASP:O	21:AV:171:VAL:HG22	1.96	0.65
22:AW:29:ASN:O	22:AW:30:ALA:C	2.39	0.65
23:AX:23:LEU:HD23	23:AX:23:LEU:N	2.11	0.65
24:A0:34:ILE:HG22	24:A0:35:THR:N	2.11	0.65
24:A0:44:LEU:CD1	24:A0:48:VAL:HG21	2.26	0.65
24:A0:45:ARG:O	24:A0:46:GLY:C	2.38	0.65
25:A1:55:ARG:HA	25:A1:58:ARG:CD	2.25	0.65
27:A3:4:LYS:NZ	27:A3:11:LYS:NZ	2.44	0.65
32:A8:6:THR:C	32:A8:8:LYS:N	2.51	0.65
34:BA:16:A:H1'	40:BH:17:ALA:HB3	1.78	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:20:U:O4'	34:BA:572:A:N1	2.29	0.65
34:BA:41:G:H2'	34:BA:42:G:C8	2.29	0.65
34:BA:522:C:H42	34:BA:528:C:H42	1.42	0.65
34:BA:754:C:P	50:BR:72:ARG:NH1	2.69	0.65
34:BA:841:U:C2'	34:BA:848:C:OP1	2.43	0.65
34:BA:968:A:H8	34:BA:968:A:OP1	1.79	0.65
34:BA:1222:G:C2	34:BA:1223:C:N3	2.63	0.65
34:BA:1534:A:OP1	34:BA:1535:C:C4	2.49	0.65
36:B1:23:U:H3	36:B1:31:G:H1	0.75	0.65
36:B1:36:A:H2'	36:B1:37:C:H4'	1.78	0.65
37:BE:19:HIS:CE1	37:BE:206:ASP:HB2	2.31	0.65
37:BE:164:VAL:HG12	37:BE:186:ALA:CB	2.26	0.65
37:BE:176:GLU:O	37:BE:180:LEU:CG	2.30	0.65
38:BF:10:PHE:O	38:BF:10:PHE:CG	2.49	0.65
38:BF:59:ARG:HH21	38:BF:64:VAL:HG13	1.59	0.65
41:BI:82:ARG:C	41:BI:85:VAL:HG23	2.20	0.65
41:BI:89:MET:HB3	53:BU:76:LEU:CD1	2.25	0.65
43:BK:45:ILE:HG13	43:BK:47:GLY:N	2.09	0.65
43:BK:84:ARG:HD3	43:BK:136:GLU:OE2	1.95	0.65
44:BL:32:ASP:HB3	44:BL:35:GLU:OE2	1.96	0.65
46:BN:54:ARG:C	46:BN:56:GLY:H	2.04	0.65
47:BO:115:LYS:O	47:BO:116:SER:C	2.38	0.65
48:BP:14:ARG:NE	48:BP:42:ALA:HA	2.11	0.65
51:BS:18:ARG:NH1	51:BS:32:TYR:OH	2.29	0.65
55:BW:73:HIS:O	55:BW:74:LYS:C	2.38	0.65
1:AB:71:C:H2'	1:AB:72:G:H8	1.61	0.65
2:AA:30:G:C5	2:AA:31:C:C5	2.84	0.65
2:AA:373:U:H4'	2:AA:374:A:N7	2.11	0.65
2:AA:450:G:OP2	6:AF:85:LYS:O	2.13	0.65
2:AA:611:C:HO2'	2:AA:616:A:H2	1.37	0.65
2:AA:684:G:C2	2:AA:775:G:C5	2.84	0.65
2:AA:813:U:O2'	2:AA:814:C:H5'	1.97	0.65
2:AA:951:C:H2'	2:AA:952:G:H8	1.61	0.65
2:AA:973:A:C6	26:A2:81:ARG:N	2.64	0.65
2:AA:1005:C:H2'	2:AA:1006:C:C6	2.30	0.65
2:AA:1299:G:N2	2:AA:1642:G:C6	2.64	0.65
2:AA:1397:U:O2	2:AA:1397:U:H2'	1.96	0.65
2:AA:1400:G:H2'	2:AA:1401:G:H8	1.57	0.65
2:AA:1417:C:H2'	2:AA:1418:G:O5'	1.96	0.65
2:AA:1547:C:O2'	2:AA:1548:C:H5'	1.95	0.65
2:AA:1550:C:O5'	2:AA:1550:C:H6	1.79	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1785:A:C2'	2:AA:1786:A:H5'	2.26	0.65
2:AA:1795:C:C2'	2:AA:1796:U:C5'	2.54	0.65
2:AA:2036:C:H6	2:AA:2036:C:H5'	1.61	0.65
2:AA:2088:G:N2	2:AA:2232:U:C2	2.64	0.65
2:AA:2421:G:OP1	30:A6:4:ASP:OD1	2.14	0.65
2:AA:2435:A:C2'	2:AA:2436:G:O5'	2.45	0.65
2:AA:2497:A:C2'	2:AA:2498:C:OP2	2.44	0.65
2:AA:2678:C:O2'	2:AA:2679:A:H5'	1.96	0.65
2:AA:2785:C:H2'	2:AA:2786:U:C5	2.32	0.65
2:AA:2867:G:H5'	2:AA:2868:A:C5'	2.27	0.65
3:AC:83:ILE:HG23	3:AC:94:VAL:CG1	2.25	0.65
3:AC:103:ILE:HD13	3:AC:110:PHE:HE2	1.62	0.65
4:AD:232:VAL:CG2	4:AD:233:ASP:H	2.09	0.65
6:AF:193:LEU:HD12	6:AF:233:THR:CG2	2.27	0.65
6:AF:215:ALA:CA	6:AF:239:ALA:HA	2.26	0.65
7:AG:19:GLU:OE2	7:AG:135:VAL:CG1	2.39	0.65
9:AI:15:VAL:HG22	9:AI:48:ALA:CB	2.27	0.65
9:AI:86:LYS:HD2	9:AJ:1:MET:HE2	1.78	0.65
9:AJ:86:LYS:HZ1	11:AL:10:LYS:HD2	1.61	0.65
11:AL:36:MET:HE1	11:AL:40:LYS:HD2	1.78	0.65
12:AM:72:PRO:HB2	12:AM:77:GLY:HA3	1.79	0.65
12:AM:104:TYR:O	12:AM:105:LEU:C	2.38	0.65
16:AQ:32:PRO:HB3	16:AQ:49:THR:OG1	1.95	0.65
16:AQ:42:HIS:CD2	16:AQ:44:ARG:HH21	2.14	0.65
18:AS:50:VAL:HG21	18:AS:103:ILE:HG21	1.77	0.65
19:AT:3:ASP:O	19:AT:4:VAL:HG22	1.96	0.65
19:AT:30:ASP:HA	19:AT:62:LYS:CD	2.21	0.65
21:AV:38:ALA:O	21:AV:39:PHE:C	2.39	0.65
22:AW:9:ARG:CZ	22:AW:59:ILE:HG13	2.26	0.65
25:A1:14:HIS:O	25:A1:18:LEU:HD23	1.96	0.65
26:A2:58:ALA:O	26:A2:100:GLY:O	2.14	0.65
26:A2:75:LYS:HE2	26:A2:75:LYS:CA	2.22	0.65
29:A5:41:LEU:O	29:A5:42:SER:C	2.39	0.65
30:A6:14:SER:O	30:A6:22:TYR:HB3	1.97	0.65
34:BA:43:C:H5''	51:BS:12:LYS:HB2	1.78	0.65
34:BA:344:A:O2'	34:BA:345:C:P	2.54	0.65
34:BA:573:A:N3	34:BA:883:C:O2'	2.27	0.65
34:BA:665:A:C8	34:BA:733:A:N3	2.65	0.65
34:BA:1077:G:N2	34:BA:1079:G:H2'	2.12	0.65
34:BA:1154:G:H2'	34:BA:1155:G:C8	2.29	0.65
34:BA:1280:A:C1'	45:BM:41:PRO:HG3	2.26	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1354:C:H2'	34:BA:1355:G:C8	2.32	0.65
34:BA:1489:G:C3'	34:BA:1490:C:H5''	2.22	0.65
35:BB:58:A:H4'	35:BB:59:U:OP1	1.97	0.65
35:BB:72:C:O2'	35:BB:73:A:C5'	2.45	0.65
36:B1:27:G:H2'	36:B1:28:U:C6	2.31	0.65
37:BE:10:LEU:O	37:BE:11:LEU:HG	1.96	0.65
37:BE:218:ALA:C	37:BE:220:ASP:N	2.51	0.65
38:BF:154:SER:OG	38:BF:197:GLY:N	2.30	0.65
39:BG:12:CYS:CB	39:BG:31:CYS:O	2.45	0.65
42:BJ:15:ASP:C	42:BJ:17:VAL:H	2.04	0.65
42:BJ:62:PHE:O	42:BJ:66:VAL:HG23	1.96	0.65
42:BJ:99:LEU:HD23	42:BJ:102:ARG:HD2	1.77	0.65
43:BK:46:LYS:HG3	43:BK:64:LYS:CG	2.25	0.65
43:BK:61:VAL:CG1	43:BK:62:TYR:N	2.57	0.65
48:BP:13:LYS:CA	48:BP:44:ARG:HE	2.02	0.65
54:BV:58:VAL:O	54:BV:58:VAL:HG23	1.96	0.65
55:BW:97:ALA:O	55:BW:99:LEU:HD23	1.96	0.65
1:AB:97:G:C5	1:AB:98:G:C8	2.85	0.65
2:AA:71:A:C4'	2:AA:72:U:H3'	2.26	0.65
2:AA:199:A:H5'	2:AA:200:U:OP2	1.96	0.65
2:AA:379:G:H4'	2:AA:2232:U:H5''	1.78	0.65
2:AA:431:U:C6	2:AA:431:U:C3'	2.77	0.65
2:AA:451:C:O3'	6:AF:52:ALA:HB2	1.96	0.65
2:AA:528:A:C2	2:AA:2043:C:C4'	2.76	0.65
2:AA:532:A:H4'	2:AA:532:A:OP1	1.96	0.65
2:AA:563:G:H21	25:A1:37:GLN:CD	2.03	0.65
2:AA:612:G:C4'	2:AA:616:A:C6	2.76	0.65
2:AA:737:C:O2'	2:AA:738:G:H5'	1.95	0.65
2:AA:919:G:H21	2:AA:2268:A:H5''	1.57	0.65
2:AA:1008:C:O2'	2:AA:1009:A:O5'	2.15	0.65
2:AA:1022:G:C6	2:AA:1139:G:C4	2.84	0.65
2:AA:1058:G:C2'	9:AI:3:ILE:HG13	2.26	0.65
2:AA:1071:G:H8	2:AA:1071:G:OP2	1.79	0.65
2:AA:1487:G:O2'	2:AA:1488:G:H5'	1.97	0.65
2:AA:1598:C:H5'	19:AT:34:LYS:HB2	1.79	0.65
2:AA:1825:A:C8	4:AD:225:ARG:NH2	2.65	0.65
2:AA:1903:G:N3	2:AA:1904:G:N7	2.44	0.65
2:AA:1927:A:H5''	2:AA:1928:A:P	2.36	0.65
2:AA:1993:U:H4'	5:AE:228:ARG:NE	2.10	0.65
2:AA:2042:A:O2'	2:AA:2043:C:H5'	1.95	0.65
2:AA:2047:U:O2'	2:AA:2048:G:H5'	1.96	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2143:C:O2	2:AA:2148:G:N1	2.27	0.65
2:AA:2181:G:H2'	2:AA:2182:G:C5'	2.26	0.65
2:AA:2457:U:O4	2:AA:2458:G:C2	2.50	0.65
2:AA:2520:C:C4	2:AA:2567:G:C8	2.83	0.65
2:AA:2544:G:H8	2:AA:2544:G:O5'	1.78	0.65
2:AA:2807:G:C6	2:AA:2892:A:N7	2.64	0.65
4:AD:105:ALA:O	4:AD:106:PRO:C	2.39	0.65
4:AD:123:ILE:H	4:AD:123:ILE:CD1	2.09	0.65
4:AD:123:ILE:HD12	4:AD:123:ILE:N	2.09	0.65
4:AD:156:ALA:O	4:AD:196:ASN:ND2	2.28	0.65
8:AH:143:LEU:HA	8:AH:146:ASN:HB2	1.76	0.65
8:AH:167:LEU:HD12	8:AH:169:ARG:HH22	1.61	0.65
9:AI:77:VAL:HG13	9:AI:102:ILE:HG13	1.77	0.65
9:AJ:18:LEU:HD11	9:AJ:44:VAL:HG12	1.77	0.65
9:AJ:29:PHE:HB2	9:AJ:34:ALA:HB2	1.77	0.65
9:AJ:76:VAL:CG2	9:AJ:121:ALA:HB2	2.26	0.65
10:AK:12:LYS:O	10:AK:14:LYS:N	2.29	0.65
10:AK:95:SER:OG	10:AK:115:ILE:HD12	1.95	0.65
12:AM:104:TYR:CB	12:AM:105:LEU:HD23	2.21	0.65
13:AN:73:ASP:O	13:AN:74:GLY:C	2.40	0.65
13:AN:103:ALA:CB	13:AN:105:GLU:HG2	2.26	0.65
13:AN:106:LEU:O	13:AN:107:ARG:C	2.36	0.65
15:AP:20:ILE:CG1	15:AP:21:SER:N	2.56	0.65
16:AQ:34:LEU:HD23	16:AQ:100:ALA:CB	2.25	0.65
17:AR:47:ARG:C	17:AR:48:ASN:OD1	2.40	0.65
20:AU:27:LEU:HB3	20:AU:98:VAL:O	1.97	0.65
21:AV:98:VAL:HG22	21:AV:134:LEU:HB3	1.78	0.65
22:AW:51:LYS:O	22:AW:55:ARG:CD	2.45	0.65
24:A0:90:ARG:NH2	24:A0:117:VAL:HG22	2.03	0.65
25:A1:33:ARG:O	25:A1:36:PHE:N	2.30	0.65
25:A1:74:MET:HE2	25:A1:78:THR:CG2	2.22	0.65
26:A2:62:GLU:O	26:A2:95:ILE:HA	1.97	0.65
28:A4:5:LEU:HG	28:A4:8:LYS:O	1.97	0.65
28:A4:58:LYS:CG	28:A4:62:ARG:NH2	2.57	0.65
34:BA:60:A:H4'	34:BA:61:G:O5'	1.96	0.65
34:BA:81:U:C2	34:BA:83:U:OP2	2.49	0.65
34:BA:350:G:N2	34:BA:351:G:N2	2.45	0.65
34:BA:522:C:H42	34:BA:528:C:N4	1.94	0.65
34:BA:687:A:O2'	34:BA:688:G:P	2.54	0.65
34:BA:772:U:C2'	34:BA:773:G:O5'	2.43	0.65
34:BA:819:A:H5''	34:BA:820:U:OP2	1.95	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:848:C:O2'	34:BA:849:C:O4'	2.14	0.65
34:BA:872:A:O2'	34:BA:873:A:P	2.55	0.65
34:BA:888:G:OP2	34:BA:889:A:H2'	1.96	0.65
34:BA:950:U:H2'	34:BA:951:G:C5'	2.27	0.65
34:BA:970:C:N4	48:BP:126:LYS:NZ	2.45	0.65
34:BA:1302:U:O2'	34:BA:1303:C:OP1	2.13	0.65
34:BA:1462:G:H2'	34:BA:1463:C:C6	2.31	0.65
34:BA:1498:U:O2'	34:BA:1499:A:H8	1.79	0.65
38:BF:157:ILE:HD12	38:BF:164:ARG:HG3	1.76	0.65
39:BG:18:LYS:HG3	39:BG:33:MET:CG	2.26	0.65
39:BG:25:ARG:HG2	39:BG:28:SER:OG	1.96	0.65
39:BG:61:LYS:CA	39:BG:203:VAL:HG22	2.27	0.65
41:BI:53:ALA:CB	41:BI:55:ASP:OD2	2.44	0.65
41:BI:79:LEU:C	41:BI:81:ILE:N	2.53	0.65
46:BN:65:ALA:HB1	46:BN:98:LEU:HD21	1.77	0.65
55:BW:10:LEU:HD12	55:BW:11:SER:H	1.60	0.65
55:BW:46:GLU:HB2	55:BW:48:LYS:HE2	1.78	0.65
1:AB:61:G:H2'	1:AB:62:C:C6	2.31	0.65
2:AA:27:G:HO2'	2:AA:28:A:H8	1.43	0.65
2:AA:30:G:O2'	2:AA:31:C:H5'	1.97	0.65
2:AA:67:U:O5'	2:AA:67:U:H6	1.78	0.65
2:AA:137(A):G:C6	2:AA:139:G:C2	2.84	0.65
2:AA:138:G:H5''	19:AT:43:GLU:CG	2.20	0.65
2:AA:215:G:C4'	2:AA:216:A:H4'	2.27	0.65
2:AA:251:A:C2'	2:AA:252:G:O5'	2.43	0.65
2:AA:300:A:H2	2:AA:333:G:N3	1.94	0.65
2:AA:303:U:C2	2:AA:304:G:C8	2.84	0.65
2:AA:537:C:H2'	2:AA:539:G:C8	2.32	0.65
2:AA:558:G:OP2	12:AM:91:LYS:HB3	1.97	0.65
2:AA:654:A:N3	2:AA:654:A:C2'	2.57	0.65
2:AA:659:C:H2'	2:AA:660:G:H8	1.62	0.65
2:AA:1022:G:C6	12:AM:47:THR:HG21	2.31	0.65
2:AA:142(A):A:OP1	2:AA:1143:A:OP2	2.15	0.65
2:AA:1272:A:C5	2:AA:1618:A:H1'	2.31	0.65
2:AA:1479:G:C2	2:AA:1514:U:O2	2.49	0.65
2:AA:1568:G:H5''	4:AD:60:GLN:CD	2.21	0.65
2:AA:1640:C:H2'	2:AA:1641:A:H8	1.62	0.65
2:AA:1649:G:C2	2:AA:1650:G:C8	2.85	0.65
2:AA:1697:G:C3'	2:AA:1698:A:H5'	2.27	0.65
2:AA:1704:G:C2	2:AA:1705:G:H1'	2.32	0.65
2:AA:1935:G:N9	2:AA:1962:C:N4	2.45	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2113:U:OP2	2:AA:2117:A:H5''	1.96	0.65
2:AA:2150:U:H2'	2:AA:2151:G:N7	2.11	0.65
2:AA:2264:C:N3	2:AA:2276:G:N2	2.37	0.65
2:AA:2275:C:O2'	15:AP:103:ALA:HA	1.96	0.65
2:AA:2287:A:C2	2:AA:2289:G:H1'	2.31	0.65
2:AA:2350:C:H2'	2:AA:2351:G:H8	1.62	0.65
2:AA:2378:A:H1'	16:AQ:101:VAL:HG21	1.77	0.65
2:AA:2432:A:N1	2:AA:2433:A:C2	2.64	0.65
2:AA:2522:U:O4	2:AA:2541:A:N1	2.30	0.65
2:AA:2740:A:H62	2:AA:2741:A:N6	1.93	0.65
2:AA:2779:U:H5'	2:AA:2781:A:C8	2.32	0.65
2:AA:2810:A:C2	2:AA:2892:A:C2	2.84	0.65
2:AA:2868:A:H2'	2:AA:2869:G:H8	1.61	0.65
3:AC:28:LEU:HD12	3:AC:31:GLU:HB2	1.78	0.65
4:AD:174:ARG:NH1	4:AD:174:ARG:HB2	2.12	0.65
6:AF:28:SER:HA	6:AF:31:ILE:HG13	1.78	0.65
8:AH:41:THR:HB	8:AH:52:THR:CB	2.26	0.65
9:AI:38:ALA:O	9:AI:41:ALA:HB3	1.97	0.65
9:AI:71:ILE:HG22	9:AI:75:LYS:CE	2.27	0.65
9:AI:73:VAL:HA	9:AI:121:ALA:CB	2.24	0.65
10:AK:21:VAL:CG1	10:AK:26:ALA:HB2	2.27	0.65
11:AL:15:ALA:HB1	11:AL:46:THR:HB	1.77	0.65
11:AL:71:LYS:HB3	11:AL:115:ASP:CG	2.22	0.65
12:AM:54:VAL:CG2	12:AM:135:ILE:HD12	2.25	0.65
13:AN:104:ARG:NE	13:AN:121:VAL:HG12	2.11	0.65
14:AO:66:VAL:HB	14:AO:110:GLY:O	1.96	0.65
15:AP:33:MET:CE	15:AP:34:GLY:H	1.96	0.65
15:AP:94:ARG:HH12	15:AP:104:PRO:HB2	1.61	0.65
19:AT:5:ILE:HD11	19:AT:41:VAL:N	2.11	0.65
20:AU:101:LEU:HD21	20:AU:112:LEU:CD1	2.26	0.65
22:AW:43:PRO:CB	22:AW:45:ARG:HB3	2.26	0.65
23:AX:9:VAL:O	23:AX:53:LEU:O	2.13	0.65
23:AX:30:ARG:NH2	23:AX:33:GLN:HB2	2.11	0.65
24:A0:48:VAL:HA	24:A0:51:LEU:HD12	1.78	0.65
25:A1:7:GLY:C	25:A1:9:VAL:N	2.51	0.65
25:A1:69:ALA:CA	25:A1:79:PHE:CZ	2.79	0.65
26:A2:5:ILE:HD13	26:A2:12:TYR:CZ	2.32	0.65
27:A3:39:ARG:O	27:A3:40:GLN:O	2.15	0.65
28:A4:11:PRO:C	28:A4:12:CYS:SG	2.80	0.65
32:A8:38:GLY:O	32:A8:41:ILE:N	2.28	0.65
33:A9:4:ARG:HA	33:A9:36:GLN:HA	1.76	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:195:A:H4'	55:BW:68:LYS:HZ1	1.58	0.65
34:BA:332:G:H2'	34:BA:333:G:H8	1.62	0.65
34:BA:389:A:C6	34:BA:390:C:H1'	2.31	0.65
34:BA:499:A:C2	34:BA:546:G:N3	2.64	0.65
34:BA:510:A:C8	34:BA:510:A:O5'	2.47	0.65
34:BA:518:C:N4	35:BB:34:G:N2	2.44	0.65
34:BA:883:C:H5'	34:BA:884:U:OP2	1.97	0.65
34:BA:1326:C:N3	34:BA:1327:C:C4	2.64	0.65
35:BB:19:G:H1'	35:BB:57:G:H21	1.61	0.65
35:BC:33:U:H3'	35:BC:33:U:C6	2.32	0.65
35:BC:50:U:H2'	35:BC:51:G:H8	1.61	0.65
35:BC:60:C:H4'	35:BC:61:C:OP2	1.97	0.65
37:BE:77:ALA:O	37:BE:80:ILE:CB	2.43	0.65
39:BG:58:LEU:CD2	39:BG:62:GLN:HG2	2.26	0.65
40:BH:14:ARG:O	40:BH:14:ARG:HG3	1.95	0.65
40:BH:20:GLN:NE2	40:BH:21:ALA:H	1.93	0.65
40:BH:43:LEU:O	40:BH:65:ASN:ND2	2.29	0.65
41:BI:41:GLU:O	41:BI:42:GLU:CB	2.44	0.65
42:BJ:69:VAL:HG21	42:BJ:104:LEU:CD1	2.27	0.65
43:BK:24:THR:O	43:BK:60:ARG:HA	1.96	0.65
44:BL:38:GLN:HA	44:BL:38:GLN:OE1	1.95	0.65
45:BM:44:VAL:HG11	45:BM:46:ARG:NE	2.11	0.65
45:BM:82:ILE:O	45:BM:86:MET:HB3	1.96	0.65
48:BP:49:THR:HG22	48:BP:51:ALA:H	1.60	0.65
51:BS:58:TYR:O	51:BS:61:SER:N	2.30	0.65
52:BT:61:GLU:HA	52:BT:71:PHE:CE1	2.31	0.65
53:BU:30:ASP:OD1	53:BU:32:ARG:HB2	1.95	0.65
55:BW:90:GLN:O	55:BW:93:GLU:HG3	1.96	0.65
1:AB:42:C:H2'	1:AB:43:C:C5	2.31	0.65
1:AB:100:G:C2'	1:AB:101:A:O4'	2.45	0.65
2:AA:58:G:N2	2:AA:70:G:C5	2.65	0.65
2:AA:63:U:C6	2:AA:63:U:C3'	2.78	0.65
2:AA:71:A:H4'	2:AA:72:U:C5'	2.25	0.65
2:AA:134:C:C2	2:AA:146:G:N2	2.64	0.65
2:AA:207:A:C2	2:AA:208:C:C2	2.84	0.65
2:AA:265:A:O2'	2:AA:266:G:P	2.55	0.65
2:AA:306:U:H5	2:AA:307:G:C8	2.15	0.65
2:AA:442:G:N2	6:AF:46:TYR:CE2	2.65	0.65
2:AA:487:C:C5	2:AA:488:G:N7	2.64	0.65
2:AA:635:C:O2'	2:AA:639:U:OP1	2.13	0.65
2:AA:729:G:N7	4:AD:207:ALA:HB1	2.11	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:754:C:H2'	2:AA:755:C:H5'	1.78	0.65
2:AA:776:G:O2'	2:AA:777:A:OP2	2.14	0.65
2:AA:776:G:N3	2:AA:793:A:N6	2.45	0.65
2:AA:945:A:H2'	2:AA:946:G:O5'	1.95	0.65
2:AA:1109:C:N4	2:AA:1110:G:N2	2.43	0.65
2:AA:1168:G:H2'	2:AA:1169:G:C5'	2.26	0.65
2:AA:1181:C:O2'	2:AA:1182:A:P	2.53	0.65
2:AA:1268:A:C2'	2:AA:1269:A:C8	2.72	0.65
2:AA:1274:A:C2	2:AA:1302:A:C2	2.85	0.65
2:AA:1293:C:N3	2:AA:1294:U:C5	2.64	0.65
2:AA:1315:C:N4	2:AA:1337:G:N1	2.07	0.65
2:AA:1558:A:O2'	2:AA:1559:G:H5''	1.96	0.65
2:AA:1675:C:O2	2:AA:1676:A:O4'	2.14	0.65
2:AA:1787:A:H3'	2:AA:1787:A:OP2	1.96	0.65
2:AA:1835:G:N2	2:AA:1905:C:N3	2.41	0.65
2:AA:1856:G:O2'	2:AA:1857:G:H5'	1.96	0.65
2:AA:1909:C:C5	2:AA:1922:G:N2	2.65	0.65
2:AA:1971:A:H2'	2:AA:1972:A:OP1	1.96	0.65
2:AA:1996:C:C5	2:AA:1996:C:OP1	2.50	0.65
2:AA:2056:G:C2	2:AA:2057:A:C8	2.85	0.65
2:AA:2081:C:H5'	28:A4:35:VAL:HG21	1.78	0.65
2:AA:2280:G:C2	2:AA:2281:C:C5	2.85	0.65
2:AA:2402:C:O5'	2:AA:2402:C:H6	1.80	0.65
2:AA:2527:C:H5''	33:A9:30:VAL:HG12	1.79	0.65
2:AA:2561:A:C2'	2:AA:2562:U:O5'	2.44	0.65
2:AA:2603:G:H3'	2:AA:2603:G:C8	2.32	0.65
2:AA:2649:U:C2'	2:AA:2650:U:H6	2.04	0.65
2:AA:2742:C:H5''	33:A9:35:ARG:NH1	2.12	0.65
2:AA:2818:G:N1	2:AA:2829:C:N4	2.44	0.65
2:AA:2892:A:H3'	2:AA:2893:G:H8	1.60	0.65
4:AD:78:ALA:CB	4:AD:94:ASN:ND2	2.60	0.65
4:AD:111:VAL:O	4:AD:113:MET:N	2.30	0.65
4:AD:120:ASP:CG	4:AD:121:ALA:N	2.55	0.65
4:AD:197:GLY:H	4:AD:199:ARG:NH1	1.95	0.65
5:AE:247:ARG:HD2	5:AE:249:THR:OG1	1.97	0.65
6:AF:115:LEU:CD2	6:AF:246:ARG:HH22	2.08	0.65
9:AI:101:VAL:HG11	9:AI:104:SER:HB3	1.78	0.65
9:AJ:103:LYS:HD3	9:AJ:114:ILE:HG12	1.78	0.65
13:AN:68:GLY:CA	13:AN:78:ARG:HG2	2.26	0.65
15:AP:65:ARG:NH2	15:AP:122:PHE:CE2	2.61	0.65
21:AV:81:VAL:HG12	21:AV:82:ASP:H	1.60	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:108:VAL:HG12	21:AV:108:VAL:O	1.95	0.65
21:AV:112:LEU:HA	21:AV:174:PRO:CD	2.20	0.65
22:AW:55:ARG:O	22:AW:56:ILE:C	2.40	0.65
26:A2:3:ALA:CB	26:A2:44:GLN:OE1	2.43	0.65
26:A2:76:SER:OG	26:A2:84:THR:O	2.13	0.65
30:A6:29:ARG:O	30:A6:30:ASN:C	2.39	0.65
34:BA:80:G:H2'	34:BA:81:U:H5''	1.79	0.65
34:BA:194:C:H2'	34:BA:195:A:H5''	1.78	0.65
34:BA:346:G:H2'	34:BA:347:G:O4'	1.95	0.65
34:BA:372:C:N4	34:BA:389:A:N6	2.33	0.65
34:BA:533:A:C5	34:BA:536:C:N4	2.65	0.65
34:BA:562:C:O3'	47:BO:15:ARG:HD2	1.96	0.65
34:BA:659:U:C2	34:BA:660:G:C8	2.85	0.65
34:BA:1055:A:H2	38:BF:193:TYR:O	1.79	0.65
34:BA:1069:C:H1'	34:BA:1191:A:C2	2.32	0.65
34:BA:1239:A:C2'	34:BA:1298:C:N4	2.57	0.65
34:BA:1324:A:C6	34:BA:1325:C:C4	2.84	0.65
34:BA:1355:G:H1	34:BA:1367:C:H42	1.43	0.65
34:BA:1404:C:H2'	34:BA:1405:G:C8	2.31	0.65
34:BA:1413:A:C2	34:BA:1414:U:C6	2.85	0.65
34:BA:1418:A:C2'	34:BA:1419:G:H5'	2.26	0.65
35:BB:23:A:C6	35:BB:24:G:C6	2.84	0.65
36:B1:11:U:O2	36:B1:45:A:N1	2.30	0.65
37:BE:24:TRP:CH2	37:BE:26:PRO:HA	2.31	0.65
37:BE:78:GLN:HG3	37:BE:94:ASN:HB3	1.78	0.65
37:BE:146:GLN:HE21	37:BE:150:SER:HB2	1.61	0.65
39:BG:108:LEU:O	39:BG:110:PHE:N	2.30	0.65
41:BI:76:ALA:C	41:BI:80:ARG:NE	2.54	0.65
42:BJ:126:ASP:HB3	42:BJ:131:LYS:HG3	1.79	0.65
44:BL:114:TYR:HB2	45:BM:60:ARG:HH12	1.58	0.65
46:BN:13:GLN:H	46:BN:75:TYR:HB3	1.60	0.65
47:BO:41:ARG:NH1	47:BO:57:LYS:CE	2.49	0.65
47:BO:115:LYS:O	47:BO:117:ARG:N	2.28	0.65
52:BT:78:GLU:HG3	52:BT:78:GLU:O	1.96	0.65
55:BW:36:LEU:HD12	55:BW:62:LEU:HD12	1.78	0.65
55:BW:63:ILE:CG2	55:BW:77:ALA:HB1	2.23	0.65
2:AA:365:C:C2	2:AA:366:C:H5	2.14	0.65
2:AA:378:C:O2	2:AA:396:G:N1	2.28	0.65
2:AA:411:G:OP2	2:AA:2407:G:OP1	2.15	0.65
2:AA:448:U:O2'	2:AA:449:A:OP1	2.09	0.65
2:AA:564:C:O2'	2:AA:1252:G:O6	2.13	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:593:G:C2	2:AA:594:U:C2	2.85	0.65
2:AA:786:C:HO2'	2:AA:787:U:H5'	1.57	0.65
2:AA:821:A:O2'	2:AA:945:A:C3'	2.36	0.65
2:AA:849:A:C2	23:AX:21:ALA:HB1	2.31	0.65
2:AA:850:C:H5''	23:AX:18:ASP:HB2	1.78	0.65
2:AA:933:A:O2'	2:AA:934:G:H5'	1.97	0.65
2:AA:1054:A:N6	2:AA:1104:C:N4	2.45	0.65
2:AA:1372:U:H2'	2:AA:1373:A:C8	2.32	0.65
2:AA:1376:C:H2'	2:AA:1376:C:O2	1.96	0.65
2:AA:1379:A:H3'	2:AA:1379:A:C4	2.32	0.65
2:AA:1395:A:OP2	2:AA:1603:A:OP1	2.14	0.65
2:AA:1477:A:C2	2:AA:1516:U:C2	2.84	0.65
2:AA:1485:G:H8	2:AA:1485:G:OP2	1.79	0.65
2:AA:1518:C:C2	2:AA:1519:G:C1'	2.77	0.65
2:AA:1534:G:N2	2:AA:1535:U:H5'	2.11	0.65
2:AA:2019:A:C2'	2:AA:2020:A:O4'	2.43	0.65
2:AA:2520:C:C6	2:AA:2567:G:H1'	2.32	0.65
2:AA:2711:A:P	2:AA:2712:U:O3'	2.53	0.65
2:AA:2737:G:H2'	2:AA:2738:A:C8	2.31	0.65
2:AA:2740:A:N6	2:AA:2764:A:C8	2.65	0.65
2:AA:2838:G:C6	2:AA:2839:G:N7	2.64	0.65
2:AA:2850:A:C4	2:AA:2869:G:H4'	2.30	0.65
3:AC:114:VAL:HG21	3:AC:153:ILE:CD1	2.26	0.65
4:AD:143:ILE:HD11	4:AD:154:VAL:HB	1.78	0.65
5:AE:44:TYR:CE1	5:AE:308:VAL:HA	2.32	0.65
5:AE:45:LYS:HZ2	5:AE:302:GLY:C	2.04	0.65
6:AF:162:VAL:CG1	6:AF:163:HIS:N	2.59	0.65
8:AH:21:ASN:ND2	8:AH:38:PRO:HD3	2.08	0.65
8:AH:26:LYS:HZ2	8:AH:33:THR:CG2	2.08	0.65
8:AH:36:PHE:HE2	8:AH:70:LEU:HB3	1.59	0.65
8:AH:98:GLN:HB2	8:AH:103:VAL:HG21	1.79	0.65
11:AL:54:LEU:HD23	11:AL:73:PRO:HG3	1.78	0.65
12:AM:10:VAL:HG21	12:AM:36:VAL:HG22	1.77	0.65
14:AO:67:ARG:HH12	14:AO:109:LEU:CD1	2.01	0.65
14:AO:116:HIS:O	14:AO:118:LEU:HD21	1.95	0.65
14:AO:124:ASP:C	14:AO:125:PHE:CG	2.74	0.65
15:AP:49:VAL:HA	15:AP:121:ASP:HB2	1.79	0.65
18:AS:36:LEU:HD12	18:AS:51:LEU:CD2	2.25	0.65
21:AV:15:ASP:O	21:AV:16:GLU:HB2	1.95	0.65
22:AW:19:GLU:C	22:AW:23:LEU:HG	2.20	0.65
25:A1:53:LYS:O	25:A1:57:PHE:CD1	2.50	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:57:PHE:O	25:A1:60:LEU:N	2.30	0.65
25:A1:74:MET:HG3	25:A1:117:ARG:NH1	2.12	0.65
26:A2:1:MET:C	26:A2:2:PHE:HD1	2.05	0.65
28:A4:48:ARG:HG3	28:A4:49:PHE:CE1	2.32	0.65
34:BA:61:G:O2'	34:BA:62:U:H5'	1.96	0.65
34:BA:174:C:H2'	34:BA:175:C:H6	1.61	0.65
34:BA:359:U:H2'	34:BA:360:A:O5'	1.97	0.65
34:BA:439:A:H3'	34:BA:440:A:C8	2.31	0.65
34:BA:463:A:O2'	51:BS:82:GLN:HG2	1.97	0.65
34:BA:598:U:C4'	43:BK:94:TYR:HD2	2.09	0.65
34:BA:688:G:N2	34:BA:699:C:N3	2.41	0.65
34:BA:784:C:C2	34:BA:785:G:C8	2.85	0.65
34:BA:887:G:H2'	34:BA:888:G:H8	1.60	0.65
34:BA:900:A:C8	34:BA:901:A:N7	2.64	0.65
34:BA:904:C:O2'	34:BA:905:U:H5'	1.97	0.65
34:BA:986:A:N3	54:BV:52:TYR:OH	2.29	0.65
34:BA:1049:U:C5	34:BA:1201:A:H5'	2.32	0.65
34:BA:1115:C:C5	34:BA:1116:C:C5	2.85	0.65
34:BA:1228:C:OP1	48:BP:111:LYS:HD3	1.97	0.65
34:BA:1419:G:O2'	34:BA:1420:C:C5'	2.45	0.65
34:BA:1472:U:C2'	34:BA:1473:A:H5'	2.26	0.65
34:BA:1515:C:H2'	34:BA:1516:G:H8	1.61	0.65
37:BE:132:LYS:O	37:BE:136:VAL:HG23	1.95	0.65
37:BE:146:GLN:O	37:BE:147:LYS:C	2.39	0.65
38:BF:122:GLU:O	38:BF:125:GLU:HB2	1.97	0.65
40:BH:28:PHE:HD1	40:BH:28:PHE:H	1.40	0.65
40:BH:141:GLN:N	40:BH:141:GLN:OE1	2.29	0.65
41:BI:96:PRO:C	53:BU:32:ARG:NE	2.55	0.65
43:BK:120:THR:HG23	43:BK:123:GLU:OE1	1.96	0.65
45:BM:12:ASP:OD1	45:BM:14:LYS:HB2	1.95	0.65
48:BP:2:ALA:O	48:BP:4:ILE:HG13	1.96	0.65
48:BP:92:HIS:NE2	48:BP:98:VAL:HG11	2.12	0.65
48:BP:108:ARG:HH11	48:BP:108:ARG:CB	2.10	0.65
50:BR:39:LEU:HD13	50:BR:56:LEU:HD13	1.78	0.65
50:BR:69:TYR:O	50:BR:72:ARG:HB3	1.96	0.65
51:BS:9:PHE:CE2	51:BS:18:ARG:HG3	2.31	0.65
52:BT:26:GLN:O	52:BT:27:PHE:HB3	1.95	0.65
53:BU:63:GLN:HA	53:BU:66:LEU:CD2	2.26	0.65
55:BW:49:ALA:HB3	55:BW:99:LEU:CG	2.25	0.65
2:AA:71:A:O2'	19:AT:2:TRP:CZ2	2.49	0.65
2:AA:118:A:C8	2:AA:177:G:N2	2.65	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:244:A:C1'	2:AA:255:A:N6	2.58	0.65
2:AA:247:G:N2	2:AA:252:G:C6	2.64	0.65
2:AA:994:C:O3'	2:AA:995:C:H4'	1.95	0.65
2:AA:1083:U:N3	9:AI:36:PRO:HB3	2.11	0.65
2:AA:1168:G:O2'	2:AA:1169:G:H5'	1.97	0.65
2:AA:1223:C:N4	26:A2:87:ARG:HH21	1.94	0.65
2:AA:1332:G:C5	2:AA:1609:A:C6	2.85	0.65
2:AA:1341:U:O2'	19:AT:53:ASN:OD1	2.15	0.65
2:AA:1517:G:O2'	2:AA:1518:C:H5'	1.97	0.65
2:AA:1534:G:N3	2:AA:1535:U:H5'	2.11	0.65
2:AA:1544:C:C2'	2:AA:1545:A:H4'	2.27	0.65
2:AA:1665:A:HO2'	2:AA:1666:G:H5'	1.61	0.65
2:AA:1666:G:H2'	2:AA:1667:G:C5'	2.24	0.65
2:AA:1726:G:C6	2:AA:1727:U:C2	2.85	0.65
2:AA:1769:G:N2	2:AA:1984:G:C4	2.64	0.65
2:AA:1774:C:N4	2:AA:1775:U:O4	2.30	0.65
2:AA:1814:G:C2	2:AA:1815:A:N6	2.65	0.65
2:AA:1829:A:H3'	2:AA:1830:C:H6	1.61	0.65
2:AA:1986:A:C2	2:AA:1987:G:C8	2.84	0.65
2:AA:2047:U:H2'	2:AA:2048:G:H8	1.61	0.65
2:AA:2198:A:C2	10:AK:29:PHE:HB3	2.31	0.65
2:AA:2244:U:H1'	2:AA:2434:A:N7	2.11	0.65
2:AA:2286:A:H4'	2:AA:2287:A:O4'	1.97	0.65
2:AA:2353:G:N2	2:AA:2364:C:C2	2.64	0.65
2:AA:2680:C:H5''	5:AE:302:GLY:CA	2.27	0.65
2:AA:2714:G:C6	2:AA:2715:C:C4	2.85	0.65
3:AC:59:ARG:CZ	3:AC:164:ARG:HH11	2.09	0.65
3:AC:127:LEU:HB3	3:AC:130:ILE:HB	1.78	0.65
4:AD:76:ARG:HB3	4:AD:113:MET:HB3	1.77	0.65
4:AD:132:GLU:O	4:AD:166:LYS:NZ	2.30	0.65
4:AD:141:HIS:HB3	4:AD:154:VAL:HG11	1.78	0.65
6:AF:220:THR:O	6:AF:221:GLU:C	2.38	0.65
8:AH:112:VAL:HB	8:AH:151:ARG:NH2	2.12	0.65
8:AH:123:GLU:CD	8:AH:123:GLU:N	2.55	0.65
8:AH:159:LYS:N	8:AH:162:ARG:NH1	2.33	0.65
9:AI:29:PHE:HB2	9:AI:34:ALA:HB2	1.79	0.65
10:AK:29:PHE:HD2	10:AK:30:LEU:HG	1.57	0.65
10:AK:132:LYS:HA	10:AK:138:THR:CG2	2.27	0.65
12:AM:45:VAL:HG13	12:AM:131:THR:HG23	1.78	0.65
13:AN:4:GLN:O	13:AN:21:VAL:HB	1.96	0.65
14:AO:120:LEU:O	14:AO:140:VAL:O	2.14	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:12:ILE:CG2	18:AS:13:SER:N	2.58	0.65
19:AT:76:GLU:OE1	19:AT:77:VAL:N	2.29	0.65
20:AU:101:LEU:HD22	20:AU:103:LEU:CG	2.26	0.65
21:AV:2:GLU:OE1	21:AV:4:THR:HG23	1.97	0.65
21:AV:45:GLN:H	21:AV:45:GLN:NE2	1.91	0.65
23:AX:26:LEU:HD23	23:AX:46:ASN:HD22	1.61	0.65
26:A2:28:GLU:C	26:A2:30:GLY:N	2.55	0.65
27:A3:36:ILE:O	27:A3:37:LEU:HG	1.95	0.65
27:A3:48:GLY:N	27:A3:49:GLN:HE21	1.94	0.65
27:A3:59:LEU:CA	27:A3:81:ILE:HG12	2.26	0.65
28:A4:6:HIS:HB2	28:A4:7:PRO:CD	2.27	0.65
29:A5:10:LYS:NZ	29:A5:10:LYS:CB	2.60	0.65
31:A7:38:GLY:O	31:A7:39:ARG:CB	2.45	0.65
34:BA:22:G:H3'	34:BA:23:C:H6	1.62	0.65
34:BA:373:A:C5	34:BA:482:A:N7	2.64	0.65
34:BA:375:U:H2'	34:BA:376:G:C8	2.31	0.65
34:BA:409:G:H5'	39:BG:24:GLU:HB3	1.78	0.65
34:BA:674:G:O2'	53:BU:81:PHE:CE1	2.48	0.65
34:BA:694:A:H8	34:BA:694:A:O5'	1.80	0.65
34:BA:777:A:N3	34:BA:778:G:C8	2.64	0.65
34:BA:932:C:H4'	42:BJ:4:ARG:CZ	2.27	0.65
34:BA:1101:A:O2'	34:BA:1102:A:O5'	2.14	0.65
34:BA:1249:C:O4'	44:BL:70:LYS:NZ	2.30	0.65
35:BC:34:G:N2	36:B1:62:G:H1	1.94	0.65
36:B1:52:A:C4	36:B1:53:G:N7	2.65	0.65
37:BE:115:LEU:HD22	37:BE:149:LEU:CB	2.26	0.65
38:BF:82:GLU:O	38:BF:85:ARG:HB3	1.96	0.65
39:BG:16:GLY:O	39:BG:18:LYS:N	2.30	0.65
39:BG:68:TYR:O	39:BG:69:GLY:C	2.40	0.65
39:BG:180:GLY:O	39:BG:181:MET:C	2.40	0.65
40:BH:26:PHE:C	40:BH:27:ARG:CG	2.70	0.65
43:BK:85:ARG:NH1	43:BK:85:ARG:HG2	2.11	0.65
46:BN:15:ALA:C	46:BN:77:MET:SD	2.80	0.65
46:BN:44:SER:O	46:BN:47:VAL:HB	1.96	0.65
46:BN:100:ALA:O	46:BN:102:GLY:N	2.27	0.65
48:BP:108:ARG:NH1	48:BP:111:LYS:CB	2.59	0.65
52:BT:7:THR:O	52:BT:23:VAL:HG22	1.96	0.65
52:BT:10:VAL:HB	52:BT:54:GLY:H	1.62	0.65
52:BT:24:GLU:HG2	52:BT:38:ARG:O	1.97	0.65
52:BT:31:LEU:HG	52:BT:32:TYR:CE2	2.32	0.65
55:BW:30:LYS:HB2	55:BW:30:LYS:HZ3	1.60	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:23:G:H21	18:AS:77:ASP:CG	2.05	0.65
2:AA:136:G:O3'	2:AA:137:C:C4'	2.43	0.65
2:AA:136:G:O6	2:AA:143:C:C4	2.50	0.65
2:AA:270(S):G:C2'	2:AA:270(T):G:C8	2.78	0.65
2:AA:271(B):G:N2	2:AA:421:U:OP1	2.27	0.65
2:AA:285:C:H2'	2:AA:286:C:N1	2.11	0.65
2:AA:364:C:C2	2:AA:365:C:C4	2.83	0.65
2:AA:422:A:C2'	2:AA:423:A:O5'	2.44	0.65
2:AA:459:U:C5	2:AA:460:A:N7	2.65	0.65
2:AA:499:U:O2'	2:AA:500:G:H5'	1.97	0.65
2:AA:514:A:N3	2:AA:515:A:C8	2.65	0.65
2:AA:567:A:H2	2:AA:568:U:H1'	1.62	0.65
2:AA:585:G:C6	2:AA:1251:C:C5	2.85	0.65
2:AA:760:G:C2	2:AA:761:A:H1'	2.31	0.65
2:AA:1074:G:O2'	2:AA:1075:C:H5'	1.95	0.65
2:AA:1084:A:C2	9:AI:29:PHE:HE1	2.15	0.65
2:AA:1091:G:N2	2:AA:1101:U:C6	2.65	0.65
2:AA:1102:C:HO2'	2:AA:1103:A:H8	1.45	0.65
2:AA:1135:C:C2	2:AA:1136:G:C8	2.85	0.65
2:AA:1144:G:C8	2:AA:1145:C:C5	2.85	0.65
2:AA:1290:C:H2'	2:AA:1291:C:C6	2.31	0.65
2:AA:1560:G:H2'	2:AA:1561:G:O5'	1.97	0.65
2:AA:1668:A:N6	2:AA:1674:G:N3	2.45	0.65
2:AA:2051:A:O2'	5:AE:238:LEU:HB2	1.97	0.65
2:AA:2056:G:N3	2:AA:2056:G:H2'	2.11	0.65
2:AA:2056:G:N7	2:AA:2577:A:C5	2.65	0.65
2:AA:2289:G:H5''	2:AA:2384:G:O2'	1.96	0.65
2:AA:2373:G:C2	2:AA:2374:C:N3	2.65	0.65
2:AA:2603:G:C6	2:AA:2604:U:C4	2.84	0.65
2:AA:2684:U:O2	2:AA:2725:A:N1	2.29	0.65
2:AA:2785:C:HO2'	5:AE:100:TRP:HD1	1.40	0.65
3:AC:15:ASP:OD2	3:AC:20:TYR:CE2	2.49	0.65
4:AD:141:HIS:HE1	4:AD:191:VAL:C	2.03	0.65
5:AE:45:LYS:HD2	5:AE:304:ASP:C	2.22	0.65
5:AE:216:ARG:HD3	5:AE:254:GLY:N	2.12	0.65
5:AE:269:ILE:H	5:AE:269:ILE:CD1	1.92	0.65
6:AF:34:ALA:HB2	6:AF:110:ALA:CB	2.23	0.65
6:AF:59:GLU:HB2	6:AF:61:PHE:CE2	2.32	0.65
6:AF:153:VAL:C	6:AF:157:LEU:HG	2.21	0.65
6:AF:201:SER:O	6:AF:202:THR:O	2.15	0.65
7:AG:24:HIS:HB3	7:AG:72:LYS:HD3	1.79	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:36:ASN:C	7:AG:39:ASP:H	2.05	0.65
8:AH:147:ILE:HG22	8:AH:148:ARG:N	2.11	0.65
9:AI:80:ILE:HD13	9:AI:114:ILE:HG23	1.77	0.65
9:AJ:13:LEU:HD22	9:AJ:17:GLU:HB3	1.78	0.65
9:AJ:101:VAL:HG11	9:AJ:104:SER:HB3	1.78	0.65
10:AK:6:LEU:O	10:AK:14:LYS:CE	2.45	0.65
10:AK:22:ALA:O	10:AK:25:TYR:HB2	1.97	0.65
10:AK:37:ILE:CG2	10:AK:38:GLU:N	2.59	0.65
10:AK:40:THR:HG22	10:AK:42:ALA:HB3	1.79	0.65
12:AM:80:LYS:O	12:AM:83:ILE:HG12	1.96	0.65
13:AN:63:VAL:CG2	13:AN:84:CYS:HA	2.26	0.65
15:AP:67:ALA:CA	15:AP:70:ARG:NH1	2.60	0.65
15:AP:74:ASN:HD22	15:AP:75:SER:H	1.45	0.65
17:AR:45:GLU:HB3	17:AR:48:ASN:HD21	1.61	0.65
19:AT:23:LYS:HG2	19:AT:67:ARG:HG3	1.78	0.65
20:AU:48:VAL:HG13	20:AU:97:ARG:C	2.21	0.65
21:AV:13:LYS:O	21:AV:36:ARG:NH2	2.29	0.65
21:AV:150:GLY:O	21:AV:151:ASP:C	2.40	0.65
24:A0:20:LEU:HD21	24:A0:24:GLN:CD	2.22	0.65
25:A1:32:TYR:O	25:A1:36:PHE:CE1	2.49	0.65
25:A1:70:ARG:HG3	25:A1:76:TYR:OH	1.97	0.65
26:A2:5:ILE:HA	26:A2:39:PHE:HD2	1.62	0.65
27:A3:25:LYS:CE	27:A3:57:HIS:ND1	2.60	0.65
32:A8:16:ILE:H	32:A8:16:ILE:CD1	2.07	0.65
34:BA:190:C:O2'	34:BA:190(A):C:H5'	1.97	0.65
34:BA:431:A:N6	34:BA:432:A:C2	2.64	0.65
34:BA:738:C:H4'	41:BI:70:ASP:HA	1.78	0.65
34:BA:757:U:H1'	34:BA:879:C:O2'	1.97	0.65
34:BA:791:G:C6	34:BA:792:A:N6	2.61	0.65
34:BA:826:C:C2	34:BA:827:U:C5	2.84	0.65
34:BA:891:U:H2'	34:BA:892:A:C8	2.27	0.65
34:BA:988:G:H21	34:BA:1016:A:H1'	1.61	0.65
34:BA:1321:C:N4	34:BA:1322:C:N3	2.45	0.65
35:BC:53:G:C2	35:BC:62:A:C5	2.84	0.65
37:BE:78:GLN:HG3	37:BE:94:ASN:CB	2.27	0.65
37:BE:84:GLU:HG3	37:BE:212:GLN:NE2	2.12	0.65
37:BE:187:LEU:CD2	37:BE:201:ILE:O	2.44	0.65
41:BI:57:GLN:C	41:BI:57:GLN:HE21	2.05	0.65
42:BJ:122:HIS:HA	42:BJ:125:MET:HG3	1.77	0.65
46:BN:82:VAL:HG12	46:BN:108:ILE:HG12	1.79	0.65
47:BO:27:LEU:HD22	47:BO:62:SER:CB	2.26	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:57:LEU:O	50:BR:58:MET:C	2.38	0.65
51:BS:8:ARG:C	51:BS:9:PHE:HD2	2.04	0.65
51:BS:42:ARG:O	51:BS:43:LYS:HD2	1.97	0.65
52:BT:59:ILE:CG1	52:BT:71:PHE:HB3	2.26	0.65
53:BU:31:LEU:HD13	53:BU:65:ILE:HG13	1.79	0.65
53:BU:69:THR:O	53:BU:70:ILE:C	2.40	0.65
2:AA:8:A:H2'	2:AA:9:U:H6	1.62	0.65
2:AA:124:G:N2	2:AA:128:C:C4	2.64	0.65
2:AA:290:G:N1	2:AA:350:U:N3	2.43	0.65
2:AA:319:C:H2'	2:AA:320:A:O4'	1.96	0.65
2:AA:573:G:H2'	2:AA:574:C:H3'	1.77	0.65
2:AA:695:G:C6	2:AA:768:G:C6	2.84	0.65
2:AA:710:G:H1	2:AA:721:C:N4	1.95	0.65
2:AA:714:U:C2'	2:AA:715:G:OP2	2.43	0.65
2:AA:748:G:H8	2:AA:750:A:OP2	1.80	0.65
2:AA:818:G:C5	2:AA:1187:G:C2	2.85	0.65
2:AA:823:G:C6	2:AA:824:A:N6	2.65	0.65
2:AA:838:C:N3	2:AA:941:A:N7	2.44	0.65
2:AA:984:A:C2'	2:AA:985:C:OP1	2.42	0.65
2:AA:1188:U:O2	2:AA:1188:U:H2'	1.97	0.65
2:AA:1270:C:O2'	2:AA:1648:C:OP2	2.10	0.65
2:AA:1339:G:H1'	2:AA:1393:A:N3	2.12	0.65
2:AA:1364:G:H5'	2:AA:1364:G:C8	2.31	0.65
2:AA:1453:A:N7	2:AA:1454:U:H6	1.95	0.65
2:AA:1678:G:H22	2:AA:1989:G:H22	1.42	0.65
2:AA:1782:C:C4	2:AA:2587:A:N6	2.64	0.65
2:AA:1936:A:C8	2:AA:1940:U:O4	2.49	0.65
2:AA:2064:C:H1'	2:AA:2450:A:N6	2.12	0.65
2:AA:2065:C:H42	2:AA:2445:G:H1	1.44	0.65
2:AA:2072:G:C6	2:AA:2073:C:C4	2.84	0.65
2:AA:2317:C:H5'	7:AG:150:SER:CA	2.19	0.65
2:AA:2393:A:OP1	32:A8:27:SER:OG	2.14	0.65
2:AA:2783:G:H8	2:AA:2783:G:O5'	1.80	0.65
2:AA:2882:A:C5'	24:A0:98:LEU:HD21	2.25	0.65
3:AC:114:VAL:HG21	3:AC:153:ILE:HG12	1.79	0.65
3:AC:215:THR:HB	3:AC:221:SER:HA	1.78	0.65
4:AD:64:ILE:HG12	4:AD:102:TYR:HB2	1.79	0.65
4:AD:103:ILE:CG1	4:AD:104:ILE:N	2.59	0.65
6:AF:45:ASP:CB	6:AF:98:ARG:CZ	2.75	0.65
6:AF:115:LEU:HG	6:AF:246:ARG:CZ	2.26	0.65
9:AJ:71:ILE:HG22	9:AJ:75:LYS:CE	2.26	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:19:LEU:HB3	29:A5:25:LEU:CG	2.27	0.65
18:AS:50:VAL:CG2	18:AS:103:ILE:HG21	2.27	0.65
20:AU:42:VAL:O	20:AU:112:LEU:HD22	1.97	0.65
21:AV:54:ILE:HG23	21:AV:55:THR:N	2.12	0.65
22:AW:5:VAL:CG1	22:AW:59:ILE:HD12	2.24	0.65
25:A1:67:ALA:O	25:A1:71:LEU:HB2	1.97	0.65
26:A2:11:GLN:OE1	26:A2:21:ARG:HD3	1.97	0.65
26:A2:61:VAL:HG22	26:A2:97:GLY:CA	2.20	0.65
26:A2:96:LEU:HD23	26:A2:96:LEU:H	1.60	0.65
27:A3:18:PRO:HB2	27:A3:36:ILE:CD1	2.27	0.65
29:A5:56:GLN:O	29:A5:57:VAL:HG23	1.96	0.65
34:BA:251:G:H5'	34:BA:252:U:OP1	1.97	0.65
34:BA:253:U:H2'	34:BA:254:G:H8	1.61	0.65
34:BA:373:A:H2'	34:BA:374:A:H8	1.61	0.65
34:BA:518:C:O2'	34:BA:519:C:P	2.55	0.65
34:BA:608:A:C2	34:BA:609:A:C8	2.84	0.65
34:BA:665:A:C2	34:BA:732:C:N3	2.65	0.65
34:BA:730:G:H21	34:BA:765:G:H4'	1.62	0.65
34:BA:771:G:O6	34:BA:809:G:C6	2.50	0.65
34:BA:961:U:O4	34:BA:974:A:C2	2.47	0.65
34:BA:1159:U:C5	34:BA:1182:G:C4	2.84	0.65
34:BA:1274:G:H21	34:BA:1275:A:H62	1.44	0.65
34:BA:1292:U:H2'	34:BA:1293:G:H8	1.59	0.65
34:BA:1418:A:C6	34:BA:1483:A:C6	2.85	0.65
34:BA:1526:G:O2'	34:BA:1527:C:H5'	1.96	0.65
42:BJ:90:GLU:O	42:BJ:91:VAL:HG23	1.97	0.65
43:BK:46:LYS:HG3	43:BK:64:LYS:HB2	1.77	0.65
43:BK:47:GLY:O	43:BK:62:TYR:CD2	2.50	0.65
43:BK:104:ARG:CB	43:BK:107:LEU:HG	2.25	0.65
50:BR:6:GLU:HG2	50:BR:7:GLU:N	2.12	0.65
54:BV:15:LEU:HG	54:BV:16:LEU:H	1.62	0.65
54:BV:45:VAL:CG2	54:BV:67:VAL:HG21	2.26	0.65
54:BV:66:MET:HB2	54:BV:74:PHE:HE2	1.61	0.65
55:BW:53:LEU:HD21	55:BW:92:LEU:HD13	1.79	0.65
1:AB:58:A:N6	1:AB:59:A:C6	2.65	0.65
1:AB:59:A:H2'	1:AB:60:C:H5'	1.79	0.65
2:AA:18:C:O2	2:AA:553:U:H5''	1.97	0.65
2:AA:25:U:N3	2:AA:515:A:N6	2.32	0.65
2:AA:72:U:O2'	2:AA:73:A:P	2.54	0.65
2:AA:119:A:C4'	2:AA:120:U:H5'	2.27	0.65
2:AA:152:G:C6	2:AA:175:G:N1	2.59	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:217:G:C2	2:AA:218:A:O4'	2.50	0.65
2:AA:297:C:C2	2:AA:298:G:H1'	2.32	0.65
2:AA:342:G:N2	2:AA:344:G:H21	1.88	0.65
2:AA:371:A:O2'	2:AA:372:G:OP1	2.15	0.65
2:AA:530:G:H1'	2:AA:531:C:O3'	1.97	0.65
2:AA:564:C:O4'	25:A1:37:GLN:CD	2.40	0.65
2:AA:606:U:P	6:AF:105:LYS:HD2	2.37	0.65
2:AA:606:U:H5'	6:AF:103:ASN:CG	2.21	0.65
2:AA:613:U:H5'	2:AA:614:U:C5	2.31	0.65
2:AA:625:G:C2	2:AA:626:U:O4'	2.50	0.65
2:AA:638:G:C5	2:AA:639:U:O2	2.50	0.65
2:AA:729:G:N7	4:AD:207:ALA:CB	2.59	0.65
2:AA:928:G:C2	2:AA:929:G:O6	2.51	0.65
2:AA:1063:G:H2'	2:AA:1064:C:H6	1.62	0.65
2:AA:1091:G:N2	2:AA:1100:C:N3	2.45	0.65
2:AA:1128:A:O2'	2:AA:1129:A:O5'	2.15	0.65
2:AA:1238:G:C3'	2:AA:1239:G:H5'	2.25	0.65
2:AA:1298:C:C4'	2:AA:1302:A:N6	2.59	0.65
2:AA:1341:U:H1'	19:AT:53:ASN:HB3	1.78	0.65
2:AA:1362:C:H2'	2:AA:1363:C:H6	1.61	0.65
2:AA:1474:C:O2	2:AA:1474:C:H2'	1.97	0.65
2:AA:1727:U:O2	2:AA:1733:G:C6	2.50	0.65
2:AA:1769:G:C4'	2:AA:1958:C:H5''	2.27	0.65
2:AA:1893:C:H2'	2:AA:1894:C:H6	1.60	0.65
2:AA:1918:A:OP2	2:AA:1918:A:C1'	2.45	0.65
2:AA:1936:A:H5''	2:AA:1937:A:C5'	2.26	0.65
2:AA:1943:U:C1'	2:AA:1945:G:H5''	2.26	0.65
2:AA:2048:G:H2'	2:AA:2049:G:O5'	1.97	0.65
2:AA:2196:C:H2'	2:AA:2196:C:O2	1.97	0.65
2:AA:2289:G:OP1	2:AA:2385:C:P	2.55	0.65
2:AA:2448:A:P	2:AA:2499:C:OP2	2.55	0.65
2:AA:2472:G:N2	2:AA:2529:G:H1	1.94	0.65
2:AA:2715:C:C2	2:AA:2716:U:C5	2.85	0.65
2:AA:2718:G:OP1	17:AR:38:ASN:ND2	2.30	0.65
2:AA:2769:C:C2'	2:AA:2770:G:H5'	2.26	0.65
3:AC:22:ILE:HD12	3:AC:190:ARG:NH2	2.12	0.65
3:AC:22:ILE:HG21	3:AC:186:ALA:HA	1.79	0.65
4:AD:175:LEU:HD21	4:AD:181:ARG:H	1.62	0.65
4:AD:197:GLY:H	4:AD:199:ARG:HH11	1.45	0.65
5:AE:85:ALA:HB3	5:AE:87:GLU:CD	2.21	0.65
5:AE:211:GLN:HE22	5:AE:216:ARG:N	1.94	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:214:VAL:CG2	5:AE:221:LYS:NZ	2.60	0.65
10:AK:21:VAL:HG11	10:AK:30:LEU:CD1	2.26	0.65
10:AK:79:ILE:O	10:AK:145:VAL:HG13	1.96	0.65
13:AN:2:ILE:H	13:AN:67:ARG:NH2	1.95	0.65
14:AO:65:ASP:C	14:AO:108:VAL:HG13	2.22	0.65
15:AP:49:VAL:HG13	15:AP:50:VAL:N	2.12	0.65
20:AU:71:VAL:HG13	20:AU:91:LEU:O	1.97	0.65
23:AX:45:GLY:HA2	23:AX:48:GLU:OE1	1.95	0.65
25:A1:55:ARG:HG2	25:A1:58:ARG:HE	1.61	0.65
27:A3:19:LYS:HD2	27:A3:21:LEU:HD21	1.77	0.65
27:A3:37:LEU:N	27:A3:68:VAL:HG13	2.11	0.65
28:A4:58:LYS:N	28:A4:61:LYS:HD2	2.12	0.65
32:A8:13:ARG:HB3	32:A8:24:ALA:CB	2.27	0.65
33:A9:20:HIS:O	33:A9:22:ARG:N	2.30	0.65
34:BA:219:C:C6	34:BA:219:C:C3'	2.79	0.65
34:BA:439:A:C5'	34:BA:494:G:H22	2.09	0.65
34:BA:482:A:N3	34:BA:482:A:C2'	2.58	0.65
34:BA:826:C:O5'	34:BA:826:C:H6	1.78	0.65
34:BA:1118:C:H1'	34:BA:1179:A:C5	2.32	0.65
34:BA:1269:A:C6	34:BA:1312:G:O2'	2.48	0.65
35:BC:14:A:H2'	35:BC:15:G:C8	2.32	0.65
39:BG:123:HIS:CB	39:BG:125:HIS:NE2	2.60	0.65
39:BG:130:GLY:O	39:BG:131:ARG:O	2.15	0.65
39:BG:148:VAL:HB	39:BG:153:ARG:HG2	1.79	0.65
41:BI:11:ASN:OD1	41:BI:14:LEU:HD23	1.97	0.65
43:BK:95:VAL:HB	43:BK:99:GLU:OE2	1.96	0.65
44:BL:12:GLU:N	44:BL:104:ARG:NH2	2.44	0.65
49:BQ:9:LYS:HA	49:BQ:21:TYR:CE1	2.28	0.65
51:BS:6:LEU:HD23	51:BS:6:LEU:O	1.94	0.65
53:BU:34:TYR:CE1	53:BU:35:ARG:HG3	2.32	0.65
53:BU:46:GLU:HB3	53:BU:85:LEU:HD11	1.77	0.65
53:BU:80:PRO:O	53:BU:81:PHE:CD1	2.50	0.65
55:BW:43:LEU:HD12	55:BW:55:ILE:CD1	2.24	0.65
1:AB:88:C:C6	1:AB:88:C:C3'	2.79	0.64
1:AB:115:G:C5'	16:AQ:59:ALA:CB	2.65	0.64
2:AA:71:A:O2'	2:AA:72:U:C5'	2.45	0.64
2:AA:243:U:H2'	2:AA:243:U:O2	1.97	0.64
2:AA:274:G:OP2	2:AA:274:G:N2	2.30	0.64
2:AA:616:A:C2'	2:AA:617:G:N3	2.60	0.64
2:AA:627:A:C6	2:AA:637:A:C1'	2.72	0.64
2:AA:738:G:C4	2:AA:739:G:N3	2.65	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:762:U:H5''	2:AA:763:G:OP1	1.97	0.64
2:AA:848:G:C8	2:AA:848:G:C3'	2.80	0.64
2:AA:872:A:HO2'	15:AP:31:PHE:CB	2.06	0.64
2:AA:929:G:OP2	2:AA:930:U:H5	1.80	0.64
2:AA:1063:G:H5'	11:AL:88:GLY:HA3	1.79	0.64
2:AA:1175:U:H2'	2:AA:1175:U:O2	1.97	0.64
2:AA:1222:C:C4	2:AA:1223:C:C5	2.85	0.64
2:AA:1298:C:C4'	2:AA:1302:A:H62	2.07	0.64
2:AA:1298:C:O2'	2:AA:1302:A:C8	2.46	0.64
2:AA:1339:G:C5'	19:AT:13:LYS:HE3	2.27	0.64
2:AA:1392:A:H2'	2:AA:1393:A:C8	2.32	0.64
2:AA:1656:C:H2'	2:AA:1657:C:C5	2.32	0.64
2:AA:1789:A:H4'	4:AD:224:VAL:HG11	1.78	0.64
2:AA:1885:A:O2'	2:AA:1886:C:H5'	1.97	0.64
2:AA:2212:A:C2	2:AA:2213:U:H5''	2.32	0.64
2:AA:2326:C:H2'	2:AA:2326:C:O2	1.97	0.64
2:AA:2332:U:C4'	2:AA:2336:A:N6	2.60	0.64
2:AA:2356:C:H2'	2:AA:2357:U:O5'	1.97	0.64
2:AA:2488:A:O5'	2:AA:2488:A:H8	1.80	0.64
2:AA:2543:G:C2'	2:AA:2544:G:C8	2.76	0.64
2:AA:2548:G:H1	2:AA:2560:C:H42	1.43	0.64
2:AA:2589:A:C5	2:AA:2590:A:N7	2.66	0.64
2:AA:2631:G:C2	2:AA:2632:A:H1'	2.32	0.64
3:AC:23:ASP:O	3:AC:26:ALA:HB3	1.97	0.64
4:AD:89:ASN:ND2	4:AD:199:ARG:NH2	2.45	0.64
4:AD:103:ILE:HG12	4:AD:104:ILE:N	2.12	0.64
4:AD:109:LEU:HD13	4:AD:115:ILE:CG1	2.23	0.64
5:AE:42:ALA:CA	5:AE:311:PHE:CZ	2.80	0.64
7:AG:22:VAL:C	7:AG:24:HIS:CE1	2.76	0.64
7:AG:56:ARG:HD2	7:AG:65:GLU:CB	2.27	0.64
8:AH:10:ILE:HG12	8:AH:14:VAL:CG1	2.25	0.64
12:AM:53:ILE:CG2	12:AM:54:VAL:N	2.60	0.64
12:AM:81:ARG:O	12:AM:82:THR:C	2.37	0.64
15:AP:42:TYR:CA	21:AV:119:ASN:HD21	2.10	0.64
15:AP:45:GLN:HB2	15:AP:152:SER:C	2.22	0.64
15:AP:82:LYS:HB2	15:AP:125:TRP:CB	2.28	0.64
21:AV:42:ALA:O	21:AV:43:PHE:C	2.40	0.64
21:AV:124:ALA:N	21:AV:159:THR:HG21	2.12	0.64
21:AV:147:ILE:O	21:AV:168:VAL:HB	1.96	0.64
22:AW:45:ARG:O	22:AW:46:ILE:C	2.37	0.64
25:A1:69:ALA:HB3	25:A1:76:TYR:CE2	2.31	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:92:ARG:HA	25:A1:95:LEU:CD1	2.27	0.64
26:A2:15:SER:OG	26:A2:16:GLU:N	2.28	0.64
28:A4:33:VAL:HG13	28:A4:35:VAL:HG23	1.80	0.64
30:A6:11:LYS:NZ	32:A8:35:GLY:H	1.96	0.64
34:BA:122:G:H1	34:BA:239:U:H3	1.42	0.64
34:BA:190:C:C2	34:BA:190(A):C:C6	2.85	0.64
34:BA:195:A:H1'	34:BA:223:U:H5'	1.79	0.64
34:BA:333:G:O2'	34:BA:334:C:H5'	1.97	0.64
34:BA:359:U:H2'	34:BA:360:A:H8	1.61	0.64
34:BA:413:G:H22	34:BA:428:G:C2'	2.09	0.64
34:BA:483:C:C2'	34:BA:484:G:OP1	2.44	0.64
34:BA:627:G:H2'	34:BA:628:G:C8	2.32	0.64
34:BA:673:G:H5''	41:BI:87:ARG:NH2	2.12	0.64
34:BA:953:G:O6	48:BP:104:ARG:NE	2.29	0.64
34:BA:954:G:N2	34:BA:1227:A:H62	1.93	0.64
35:BB:41:U:C4	35:BB:42:G:N7	2.65	0.64
37:BE:70:PHE:O	37:BE:92:TYR:CA	2.45	0.64
37:BE:91:PRO:CD	37:BE:155:LEU:HD23	2.27	0.64
37:BE:102:LEU:CD2	37:BE:176:GLU:CB	2.74	0.64
37:BE:150:SER:O	37:BE:151:GLY:C	2.39	0.64
39:BG:148:VAL:CB	39:BG:181:MET:HE2	2.27	0.64
40:BH:26:PHE:C	40:BH:27:ARG:HG3	2.20	0.64
40:BH:76:ILE:CG2	40:BH:77:PRO:HD2	2.27	0.64
41:BI:3:ARG:C	41:BI:4:TYR:CD2	2.75	0.64
42:BJ:28:ASN:OD1	42:BJ:31:MET:HE1	1.97	0.64
42:BJ:76:ARG:CZ	42:BJ:89:MET:HE1	2.26	0.64
42:BJ:77:SER:C	42:BJ:156:TRP:HZ3	2.05	0.64
43:BK:10:LEU:HD13	43:BK:85:ARG:HB2	1.79	0.64
44:BL:104:ARG:O	44:BL:105:ASP:HB2	1.95	0.64
47:BO:30:ALA:HB1	47:BO:31:PRO:CD	2.27	0.64
48:BP:53:VAL:O	48:BP:54:VAL:C	2.40	0.64
50:BR:46:HIS:O	50:BR:48:LYS:N	2.30	0.64
51:BS:20:VAL:CG2	51:BS:35:LYS:HA	2.22	0.64
53:BU:27:GLY:O	53:BU:29:PHE:N	2.30	0.64
1:AB:12:C:C3'	27:A3:53:MET:SD	2.84	0.64
2:AA:61:G:C6	2:AA:62:C:C4	2.85	0.64
2:AA:76:C:H2'	2:AA:76:C:O2	1.96	0.64
2:AA:145:G:H2'	2:AA:146:G:C8	2.32	0.64
2:AA:245:G:H5''	14:AO:55:GLN:HA	1.79	0.64
2:AA:265:A:C6	2:AA:281:G:OP2	2.50	0.64
2:AA:328:U:O2	2:AA:328:U:C2'	2.44	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:402:A:N3	2:AA:406:G:O2'	2.29	0.64
2:AA:503:A:H2'	2:AA:506:G:N7	2.12	0.64
2:AA:568:U:O2	2:AA:568:U:C2'	2.46	0.64
2:AA:570:G:O6	2:AA:2499:C:OP1	2.16	0.64
2:AA:578:A:C2	2:AA:2018:G:O4'	2.50	0.64
2:AA:638:G:C5	2:AA:639:U:C2	2.86	0.64
2:AA:715:G:OP2	2:AA:715:G:H8	1.80	0.64
2:AA:749:C:O2'	2:AA:750:A:H5'	1.97	0.64
2:AA:754:C:O2'	2:AA:755:C:H5'	1.97	0.64
2:AA:784:A:C6	2:AA:792:G:C1'	2.81	0.64
2:AA:856:C:H5'	27:A3:25:LYS:HE3	1.79	0.64
2:AA:859:G:OP2	2:AA:859:G:O4'	2.14	0.64
2:AA:1059:G:N2	11:AL:131:THR:HG23	2.12	0.64
2:AA:1076:C:H4'	11:AL:94:ARG:CZ	2.28	0.64
2:AA:1136:G:N2	12:AM:85:GLY:O	2.29	0.64
2:AA:1300:U:H6	2:AA:1301:A:C2	2.15	0.64
2:AA:1327:C:H2'	2:AA:1328:G:O4'	1.97	0.64
2:AA:1340:U:C5	19:AT:55:GLN:NE2	2.65	0.64
2:AA:1341:U:O2'	19:AT:53:ASN:CB	2.44	0.64
2:AA:1350:C:N4	2:AA:1382:G:C2	2.65	0.64
2:AA:1378:A:O2'	2:AA:1379:A:P	2.55	0.64
2:AA:1405:U:O2	2:AA:1597:A:N1	2.29	0.64
2:AA:1462:C:O2	2:AA:1462:C:H2'	1.95	0.64
2:AA:1494:A:N3	2:AA:1494:A:C2'	2.59	0.64
2:AA:1608:A:N6	2:AA:1611:C:H1'	2.13	0.64
2:AA:1636:C:H2'	2:AA:1636:C:O2	1.97	0.64
2:AA:1727:U:C2	2:AA:1733:G:O6	2.50	0.64
2:AA:1919:A:H3'	2:AA:1919:A:P	2.37	0.64
2:AA:1993:U:C5'	5:AE:228:ARG:HE	2.10	0.64
2:AA:2072:G:C4	2:AA:2073:C:C5	2.85	0.64
2:AA:2191:G:N2	2:AA:2192:G:H1'	2.12	0.64
2:AA:2199:A:H5''	2:AA:2205:C:OP2	1.97	0.64
2:AA:2371:G:N2	2:AA:2372:G:C5	2.64	0.64
2:AA:2543:G:C5	2:AA:2544:G:C6	2.85	0.64
2:AA:2544:G:H2'	2:AA:2545:G:O4'	1.97	0.64
2:AA:2579:C:H4'	5:AE:231:TRP:HH2	1.58	0.64
2:AA:2620:C:H4'	5:AE:252:GLN:HB2	1.79	0.64
3:AC:22:ILE:CG2	3:AC:189:ILE:HB	2.27	0.64
3:AC:39:GLU:HG2	3:AC:216:THR:OG1	1.97	0.64
4:AD:150:GLY:O	4:AD:152:GLN:OE1	2.14	0.64
4:AD:210:LYS:O	4:AD:211:HIS:C	2.40	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:256:THR:CB	5:AE:259:HIS:HE1	2.10	0.64
6:AF:140:VAL:CB	6:AF:236:THR:HA	2.22	0.64
6:AF:154:VAL:HG12	6:AF:158:GLU:OE1	1.97	0.64
9:AJ:64:LYS:HD3	9:AJ:126:GLU:CD	2.22	0.64
10:AK:116:GLU:OE1	10:AK:130:PRO:HB2	1.96	0.64
12:AM:16:ASP:CA	12:AM:45:VAL:HG23	2.26	0.64
13:AN:27:GLY:O	13:AN:30:ARG:HD2	1.97	0.64
15:AP:49:VAL:HG22	15:AP:119:ASN:C	2.21	0.64
16:AQ:38:LYS:NZ	16:AQ:114:LYS:HD2	2.12	0.64
19:AT:71:ASP:OD1	19:AT:72:ASP:N	2.30	0.64
21:AV:19:ILE:HD11	21:AV:79:ILE:HD13	1.79	0.64
26:A2:2:PHE:C	26:A2:44:GLN:OE1	2.40	0.64
28:A4:43:TRP:HB3	28:A4:56:VAL:O	1.97	0.64
34:BA:16:A:C2	34:BA:17:U:C6	2.85	0.64
34:BA:193:C:C2	34:BA:194:C:C5	2.85	0.64
34:BA:538:G:O3'	47:BO:114:LYS:NZ	2.30	0.64
34:BA:609:A:C2	34:BA:610:G:C1'	2.77	0.64
34:BA:790:A:O2'	34:BA:791:G:O5'	2.10	0.64
34:BA:852:G:C6	34:BA:853:G:N7	2.65	0.64
34:BA:907:A:H3'	34:BA:908:A:H8	1.63	0.64
34:BA:926:G:H2'	34:BA:1505:G:H21	1.63	0.64
34:BA:1498:U:HO2'	34:BA:1499:A:C5'	2.09	0.64
35:BC:68:U:H2'	35:BC:69:U:C6	2.33	0.64
37:BE:35:GLU:O	37:BE:36:ARG:NE	2.31	0.64
37:BE:130:ARG:NE	37:BE:130:ARG:CA	2.58	0.64
37:BE:214:ILE:HD13	37:BE:214:ILE:N	2.13	0.64
38:BF:190:ARG:HB3	38:BF:190:ARG:CZ	2.26	0.64
39:BG:129:ASN:OD1	39:BG:145:GLU:N	2.31	0.64
46:BN:99:GLN:HA	46:BN:105:VAL:CG2	2.27	0.64
49:BQ:22:THR:HB	49:BQ:33:VAL:HG23	1.78	0.64
50:BR:9:GLN:O	50:BR:10:LYS:C	2.41	0.64
55:BW:66:ALA:O	55:BW:67:ALA:C	2.39	0.64
1:AB:32:C:C4	1:AB:51:G:N1	2.65	0.64
2:AA:187:G:O2'	2:AA:188:G:H5'	1.98	0.64
2:AA:191:A:C2	2:AA:192:C:C2	2.86	0.64
2:AA:350:U:O2	2:AA:350:U:C2'	2.45	0.64
2:AA:610:C:H2'	2:AA:611:C:H6	1.63	0.64
2:AA:673:C:H5'	6:AF:82:GLN:NE2	2.12	0.64
2:AA:830:G:O6	2:AA:2446:G:O4'	2.16	0.64
2:AA:1020:A:H1'	12:AM:49:ARG:NE	2.12	0.64
2:AA:1154:G:O2'	2:AA:1155:A:H5''	1.97	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1210:A:C5'	2:AA:1211:U:H3'	2.28	0.64
2:AA:1221:C:C4	2:AA:1229:G:N1	2.65	0.64
2:AA:1241:A:P	2:AA:1241:A:O4'	2.56	0.64
2:AA:1398:C:H2'	2:AA:1399:C:C6	2.33	0.64
2:AA:1422:G:H1	2:AA:1576:U:H3	1.42	0.64
2:AA:1482:U:C6	2:AA:1482:U:C3'	2.64	0.64
2:AA:1796:U:O2'	2:AA:1797:C:C6	2.50	0.64
2:AA:1820:U:O2'	2:AA:1821:A:P	2.55	0.64
2:AA:1899:G:H21	2:AA:1902:C:H5	1.44	0.64
2:AA:1911:U:C5	2:AA:1918:A:N6	2.66	0.64
2:AA:1935:G:O2'	2:AA:1937:A:H2	1.79	0.64
2:AA:2091:U:O4	2:AA:2092:U:C6	2.50	0.64
2:AA:2131:G:H3'	3:AC:5:LYS:C	2.21	0.64
2:AA:2445:G:O2'	2:AA:2446:G:H5'	1.97	0.64
2:AA:2507:C:C2	2:AA:2583:G:N3	2.65	0.64
2:AA:2570:G:C5'	2:AA:2571:C:OP2	2.45	0.64
2:AA:2688:U:N3	2:AA:2719:G:H2'	2.12	0.64
3:AC:51:PRO:HG3	3:AC:167:LYS:O	1.98	0.64
5:AE:76:PRO:O	5:AE:188:ALA:HA	1.98	0.64
5:AE:175:ASP:CA	5:AE:178:LEU:HG	2.24	0.64
6:AF:144:PHE:CE2	6:AF:156:LEU:HD22	2.31	0.64
9:AJ:71:ILE:O	9:AJ:75:LYS:HG3	1.97	0.64
10:AK:62:LEU:C	10:AK:66:LYS:HE2	2.22	0.64
10:AK:132:LYS:O	10:AK:133:LEU:HD23	1.98	0.64
12:AM:42:GLU:CA	12:AM:132:LEU:O	2.45	0.64
14:AO:62:ALA:O	14:AO:107:LYS:HG3	1.97	0.64
15:AP:50:VAL:C	15:AP:118:ALA:HA	2.17	0.64
16:AQ:19:ASP:CB	16:AQ:22:GLN:HE21	2.08	0.64
24:A0:97:VAL:HG22	24:A0:114:VAL:HG11	1.79	0.64
25:A1:8:ILE:CD1	25:A1:9:VAL:HG23	2.27	0.64
25:A1:64:ARG:NH1	25:A1:101:ARG:NH2	2.46	0.64
26:A2:68:LYS:HG2	26:A2:69:ILE:CD1	2.26	0.64
28:A4:20:VAL:HB	28:A4:30:GLU:OE1	1.97	0.64
34:BA:57:G:N2	34:BA:388:G:C6	2.65	0.64
34:BA:383:A:H2'	34:BA:384:G:H5'	1.78	0.64
34:BA:521:G:C5	34:BA:529:G:N2	2.65	0.64
34:BA:523:A:O5'	34:BA:523:A:C8	2.51	0.64
34:BA:598:U:H4'	43:BK:94:TYR:CD2	2.33	0.64
34:BA:695:A:H2	34:BA:787:A:H4'	1.63	0.64
34:BA:706:A:O2'	34:BA:707:C:H5'	1.97	0.64
34:BA:829:G:H4'	37:BE:26:PRO:CG	2.26	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:949:A:N3	34:BA:971:G:O6	2.30	0.64
34:BA:1128:C:C2	34:BA:1146:A:N6	2.65	0.64
34:BA:1413:A:H2'	34:BA:1414:U:O5'	1.96	0.64
34:BA:1433:A:H2'	34:BA:1434:A:O4'	1.97	0.64
34:BA:1493:A:O2'	34:BA:1494:G:O5'	2.15	0.64
35:BB:11:C:N3	35:BB:12:U:C5	2.65	0.64
35:BB:19:G:C3'	35:BB:20:G:C8	2.80	0.64
35:BB:41:U:H6	35:BB:41:U:C5'	2.10	0.64
36:B1:34:U:H2'	36:B1:35:C:C6	2.32	0.64
38:BF:13:GLY:O	38:BF:14:ILE:CD1	2.45	0.64
43:BK:95:VAL:HG13	43:BK:133:LEU:HD11	1.77	0.64
44:BL:110:GLU:CD	44:BL:111:ARG:H	2.04	0.64
46:BN:19:ALA:HB3	46:BN:82:VAL:HG22	1.77	0.64
49:BQ:15:LYS:O	49:BQ:16:PHE:CG	2.50	0.64
50:BR:36:ILE:CG2	50:BR:37:ASN:N	2.61	0.64
52:BT:5:VAL:HG22	52:BT:60:ILE:HA	1.80	0.64
52:BT:7:THR:CG2	52:BT:8:GLY:N	2.60	0.64
55:BW:50:GLU:HA	55:BW:99:LEU:HB2	1.78	0.64
56:BX:6:ARG:C	56:BX:8:THR:H	2.05	0.64
2:AA:13:A:N7	2:AA:525:U:C4	2.66	0.64
2:AA:161:U:O5'	2:AA:161:U:H6	1.81	0.64
2:AA:164:U:O2	2:AA:164:U:H2'	1.96	0.64
2:AA:454:A:O2'	2:AA:455:C:C2	2.50	0.64
2:AA:564:C:O4'	25:A1:37:GLN:OE1	2.16	0.64
2:AA:777:A:C2'	2:AA:778:G:H5'	2.27	0.64
2:AA:826:U:C2	2:AA:832:G:N2	2.65	0.64
2:AA:911:A:N6	15:AP:15:THR:C	2.56	0.64
2:AA:914:C:O5'	2:AA:914:C:H6	1.80	0.64
2:AA:957:A:O2'	2:AA:958:U:OP1	2.14	0.64
2:AA:974(A):C:C1'	2:AA:989:G:H22	2.11	0.64
2:AA:1091:G:H1	2:AA:1100:C:N4	1.96	0.64
2:AA:1183:G:H3'	2:AA:1183:G:P	2.37	0.64
2:AA:1283:G:H22	2:AA:1285:G:H2'	1.61	0.64
2:AA:1326:U:O4'	2:AA:2010:G:N3	2.31	0.64
2:AA:1475:G:C2'	2:AA:1476:C:H5'	2.23	0.64
2:AA:1511:A:H3'	2:AA:1512:G:H5''	1.78	0.64
2:AA:1534:G:N2	2:AA:1536:A:C8	2.65	0.64
2:AA:1580:A:H2'	2:AA:1581:G:C8	2.33	0.64
2:AA:1604:C:O2	2:AA:1604:C:H2'	1.96	0.64
2:AA:1625:C:C2'	2:AA:1626:G:C5'	2.76	0.64
2:AA:1807:G:H21	2:AA:1809:A:H4'	1.63	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2007:C:N4	2:AA:2008:C:C5	2.65	0.64
2:AA:2012:G:O3'	18:AS:96:ILE:HD13	1.97	0.64
2:AA:2091:U:O4	2:AA:2092:U:C5	2.50	0.64
2:AA:2195:C:H2'	2:AA:2196:C:C4'	2.27	0.64
2:AA:2246:G:HO2'	2:AA:2247:A:H8	1.45	0.64
2:AA:2285:C:C4'	2:AA:2288:A:N6	2.60	0.64
2:AA:2613:U:O2'	2:AA:2614:A:OP1	2.11	0.64
2:AA:2679:A:H5''	5:AE:261:ARG:CD	2.28	0.64
2:AA:2825:C:C4	2:AA:2826:A:N7	2.65	0.64
3:AC:39:GLU:O	3:AC:178:ALA:HB2	1.96	0.64
4:AD:173:VAL:O	4:AD:175:LEU:CD2	2.46	0.64
5:AE:65:MET:O	5:AE:65:MET:SD	2.55	0.64
9:AJ:48:ALA:O	9:AJ:51:ALA:HB3	1.97	0.64
10:AK:88:ARG:HB3	10:AK:122:ARG:HG2	1.79	0.64
12:AM:83:ILE:O	12:AM:84:ARG:C	2.40	0.64
13:AN:85:VAL:CG2	13:AN:114:ILE:HD11	2.27	0.64
15:AP:12:PRO:HB3	15:AP:20:ILE:CD1	2.24	0.64
15:AP:33:MET:HE1	21:AV:174:PRO:O	1.98	0.64
15:AP:66:ASN:C	15:AP:70:ARG:CZ	2.70	0.64
15:AP:74:ASN:ND2	15:AP:75:SER:H	1.95	0.64
16:AQ:24:LEU:HA	16:AQ:27:LEU:HB2	1.77	0.64
16:AQ:32:PRO:HD2	16:AQ:101:VAL:HG12	1.80	0.64
19:AT:47:VAL:HB	19:AT:69:SER:CB	2.28	0.64
24:A0:82:GLU:C	24:A0:83:ILE:HD13	2.21	0.64
26:A2:35:LEU:HD23	26:A2:36:LYS:H	1.63	0.64
26:A2:72:ARG:O	26:A2:88:GLN:HG2	1.97	0.64
27:A3:40:GLN:HA	27:A3:69:PHE:CE1	2.32	0.64
30:A6:42:PRO:HB2	30:A6:44:ALA:HB3	1.79	0.64
34:BA:8:A:N6	39:BG:209:ARG:CB	2.60	0.64
34:BA:15:G:H4'	40:BH:24:ARG:HH22	1.63	0.64
34:BA:113:G:N7	34:BA:114:U:H5	1.94	0.64
34:BA:155:C:O2'	34:BA:156:G:H5'	1.98	0.64
34:BA:308:C:O2	34:BA:309:G:O4'	2.16	0.64
34:BA:620:C:C2	39:BG:135:LEU:CD1	2.81	0.64
34:BA:627:G:N3	34:BA:628:G:C8	2.65	0.64
34:BA:905:U:O4	34:BA:906:G:N3	2.30	0.64
34:BA:918:A:O2'	34:BA:919:A:O5'	2.13	0.64
34:BA:967:C:H6	34:BA:967:C:O5'	1.80	0.64
34:BA:978:A:C2	34:BA:1319:A:N3	2.66	0.64
34:BA:1375:A:C2	34:BA:1376:U:N1	2.66	0.64
34:BA:1404:C:H2'	34:BA:1405:G:H8	1.62	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:18:G:H2'	35:BB:19:G:O5'	1.98	0.64
37:BE:57:PHE:CD1	37:BE:199:TYR:HE1	2.15	0.64
37:BE:175:ARG:HD3	37:BE:179:LYS:NZ	2.12	0.64
38:BF:21:ARG:NH2	38:BF:54:ARG:HH22	1.94	0.64
38:BF:67:THR:HG22	38:BF:69:HIS:CE1	2.32	0.64
39:BG:101:LEU:CB	39:BG:138:TYR:HB3	2.26	0.64
39:BG:175:SER:O	39:BG:183:GLY:HA2	1.98	0.64
40:BH:34:VAL:O	40:BH:66:MET:HE1	1.98	0.64
40:BH:62:ALA:O	40:BH:66:MET:SD	2.55	0.64
43:BK:33:GLU:O	43:BK:36:LEU:HG	1.97	0.64
44:BL:5:TYR:HD2	44:BL:6:GLY:H	1.43	0.64
46:BN:21:ILE:HD13	46:BN:95:ILE:HG12	1.80	0.64
48:BP:77:ASN:HD22	48:BP:80:ARG:NH1	1.96	0.64
54:BV:30:LEU:HD22	54:BV:31:ILE:H	1.61	0.64
54:BV:38:SER:O	54:BV:70:LYS:HG2	1.97	0.64
55:BW:91:LEU:O	55:BW:93:GLU:N	2.31	0.64
2:AA:15:G:C2'	2:AA:16:G:H5'	2.26	0.64
2:AA:70:G:H4'	2:AA:71:A:H5'	1.80	0.64
2:AA:123:G:H1	2:AA:128:C:N4	1.91	0.64
2:AA:154:G:C4	2:AA:155:C:C1'	2.81	0.64
2:AA:184:C:O2'	2:AA:217:G:N2	2.30	0.64
2:AA:227:A:N6	2:AA:2407:G:O4'	2.30	0.64
2:AA:234:C:H42	2:AA:430:G:N2	1.95	0.64
2:AA:237:C:O2'	2:AA:238:C:C5'	2.46	0.64
2:AA:265:A:H1'	2:AA:266:G:O4'	1.96	0.64
2:AA:273:G:N2	2:AA:364:C:N3	2.40	0.64
2:AA:313:C:C4	2:AA:314:A:N7	2.66	0.64
2:AA:359:A:C2	2:AA:361:G:N2	2.65	0.64
2:AA:397:G:P	28:A4:10:VAL:HG11	2.37	0.64
2:AA:685:A:C2'	2:AA:686:G:OP2	2.44	0.64
2:AA:973:A:C4	26:A2:80:TYR:HA	2.32	0.64
2:AA:1022:G:O5'	12:AM:52:GLN:OE1	2.15	0.64
2:AA:1024:G:OP2	2:AA:1025:G:N2	2.31	0.64
2:AA:1069:A:C2	2:AA:1096:A:H5'	2.33	0.64
2:AA:1071:G:H2'	2:AA:1072:C:C5'	2.28	0.64
2:AA:1166:C:C2	2:AA:1183:G:N2	2.66	0.64
2:AA:1203:G:H1'	2:AA:1241:A:C2	2.32	0.64
2:AA:1212:G:O2'	2:AA:1213:A:C8	2.50	0.64
2:AA:1339:G:H5'	19:AT:13:LYS:HE3	1.80	0.64
2:AA:1392:A:C5	2:AA:1393:A:N6	2.65	0.64
2:AA:1398:C:H2'	2:AA:1399:C:H6	1.63	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1421:G:C2	2:AA:1422:G:C8	2.86	0.64
2:AA:1431:U:C2	2:AA:1432:C:C6	2.86	0.64
2:AA:1508:A:H5''	2:AA:1510:A:N7	2.12	0.64
2:AA:1566:A:C6	4:AD:212:HIS:ND1	2.65	0.64
2:AA:1668:A:C6	2:AA:1674:G:C4	2.86	0.64
2:AA:1769:G:C2	2:AA:1984:G:C4	2.85	0.64
2:AA:1807:G:H21	2:AA:1809:A:C5'	2.10	0.64
2:AA:1819:A:OP1	4:AD:154:VAL:CA	2.43	0.64
2:AA:1934:C:H4'	2:AA:1974:C:H4'	1.80	0.64
2:AA:1939:U:O4'	2:AA:1939:U:O2	2.10	0.64
2:AA:2051:A:C5	2:AA:2614:A:N7	2.65	0.64
2:AA:2053:G:H1'	5:AE:245:ARG:HG2	1.80	0.64
2:AA:2213:U:C2'	2:AA:2213:U:O2	2.46	0.64
2:AA:2246:G:C4	2:AA:2426:A:C2	2.85	0.64
2:AA:2305:A:H3'	2:AA:2306:C:C5'	2.18	0.64
2:AA:2385:C:O2'	2:AA:2386:C:O5'	2.09	0.64
2:AA:2519:U:C4	2:AA:2542:A:N7	2.66	0.64
2:AA:2644:G:H1	2:AA:2645:G:N2	1.96	0.64
2:AA:2691:C:H6	2:AA:2691:C:H3'	1.62	0.64
2:AA:2793:G:H1	2:AA:2803:C:N4	1.94	0.64
2:AA:2841:C:C2'	2:AA:2842:G:H8	2.07	0.64
2:AA:2892:A:H2'	2:AA:2893:G:N9	2.12	0.64
3:AC:75:LEU:CD1	3:AC:99:ILE:HD13	2.26	0.64
3:AC:123:VAL:HG13	3:AC:138:PRO:HD2	1.80	0.64
3:AC:131:LEU:O	3:AC:136:LEU:N	2.30	0.64
5:AE:246:VAL:HG12	5:AE:247:ARG:O	1.98	0.64
6:AF:197:SER:N	6:AF:236:THR:OG1	2.31	0.64
7:AG:88:LEU:N	7:AG:89:PRO:HD2	2.12	0.64
8:AH:25:VAL:HG11	8:AH:74:MET:HB3	1.78	0.64
8:AH:37:HIS:CD2	8:AH:63:LEU:HD21	2.32	0.64
11:AL:109:ALA:CB	11:AL:125:MET:SD	2.86	0.64
12:AM:44:ALA:HB3	12:AM:132:LEU:CB	2.27	0.64
12:AM:76:ASP:OD2	12:AM:76:ASP:N	2.27	0.64
13:AN:63:VAL:HG13	13:AN:106:LEU:HD11	1.78	0.64
15:AP:61:LEU:O	15:AP:62:GLU:C	2.41	0.64
19:AT:4:VAL:HB	19:AT:40:ALA:HB1	1.80	0.64
19:AT:55:GLN:HE21	19:AT:57:THR:HG23	1.62	0.64
20:AU:10:SER:O	20:AU:14:ALA:HB3	1.98	0.64
20:AU:92:ASP:O	20:AU:93:THR:C	2.41	0.64
21:AV:34:LEU:HD21	21:AV:83:PHE:CE1	2.33	0.64
21:AV:149:ALA:HA	21:AV:152:ILE:CD1	2.28	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:31:GLN:O	25:A1:35:ALA:HB2	1.97	0.64
26:A2:61:VAL:CG1	26:A2:95:ILE:HG22	2.17	0.64
26:A2:63:HIS:ND1	26:A2:63:HIS:N	2.46	0.64
28:A4:49:PHE:HD1	28:A4:49:PHE:H	1.46	0.64
34:BA:104:G:C2	34:BA:105:G:C8	2.86	0.64
34:BA:123:C:O2'	34:BA:290:C:O2	2.12	0.64
34:BA:762:C:C2	34:BA:763:G:N7	2.66	0.64
34:BA:775:G:H2'	34:BA:776:G:C8	2.29	0.64
34:BA:792:A:N3	34:BA:794:A:N6	2.45	0.64
34:BA:986:A:H2'	34:BA:987:G:H8	1.62	0.64
34:BA:1007:C:C4	34:BA:1022:G:C2	2.86	0.64
34:BA:1219:U:O2'	54:BV:34:TRP:HB3	1.97	0.64
34:BA:1269:A:H2'	34:BA:1270:C:O4'	1.97	0.64
34:BA:1269:A:C8	34:BA:1270:C:C1'	2.81	0.64
34:BA:1347:G:O2'	34:BA:1348:U:P	2.55	0.64
34:BA:1443:G:O5'	34:BA:1446:A:H5'	1.97	0.64
34:BA:1504:G:OP1	34:BA:1507:A:H4'	1.96	0.64
35:BB:29:A:N6	35:BB:42:G:C6	2.66	0.64
35:BC:5:A:O2'	35:BC:6:U:H5'	1.97	0.64
35:BC:15:G:N2	35:BC:60:C:O2	2.29	0.64
35:BC:70:C:O2	35:BC:71:G:C8	2.51	0.64
36:B1:6:U:C5'	36:B1:7:A:H5'	2.24	0.64
36:B1:11:U:H2'	36:B1:12:U:H5	1.63	0.64
37:BE:28:PHE:CD2	37:BE:190:THR:HA	2.33	0.64
37:BE:157:ARG:C	37:BE:158:LEU:HD23	2.22	0.64
38:BF:182:ILE:HG23	38:BF:202:ILE:C	2.23	0.64
38:BF:191:THR:HG21	38:BF:196:LEU:HD11	1.79	0.64
39:BG:153:ARG:CD	39:BG:181:MET:HE1	2.27	0.64
40:BH:75:THR:HA	40:BH:115:VAL:HG12	1.79	0.64
40:BH:105:VAL:HG12	40:BH:106:PRO:N	2.11	0.64
41:BI:75:LEU:CD2	41:BI:79:LEU:HD21	2.27	0.64
41:BI:84:ASN:HA	41:BI:86:ARG:HH21	1.61	0.64
42:BJ:139:GLU:HA	42:BJ:142:GLU:OE2	1.97	0.64
42:BJ:147:ALA:O	42:BJ:149:ARG:N	2.30	0.64
44:BL:23:ASN:HA	44:BL:57:GLY:O	1.97	0.64
45:BM:30:SER:CB	45:BM:80:LYS:HG3	2.27	0.64
47:BO:24:VAL:CG1	47:BO:26:ALA:HB2	2.28	0.64
47:BO:88:GLY:HA3	47:BO:99:HIS:HE1	1.61	0.64
50:BR:69:TYR:O	50:BR:70:LEU:C	2.40	0.64
52:BT:22:LEU:HD12	52:BT:23:VAL:H	1.63	0.64
53:BU:58:LEU:HB3	53:BU:62:GLU:CG	2.28	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:50:GLU:CB	55:BW:99:LEU:HD12	2.27	0.64
2:AA:270(C):C:O2'	2:AA:270(D):C:H5'	1.97	0.64
2:AA:270(O):U:C5'	2:AA:270(P):C:C5	2.68	0.64
2:AA:317:G:N2	2:AA:318:C:C2	2.66	0.64
2:AA:442:G:N2	6:AF:46:TYR:CZ	2.66	0.64
2:AA:452:G:OP1	6:AF:55:ARG:NH2	2.30	0.64
2:AA:487:C:N3	2:AA:493:G:N2	2.44	0.64
2:AA:565:C:N3	2:AA:566:U:N3	2.45	0.64
2:AA:599:G:N1	2:AA:658:C:N4	2.10	0.64
2:AA:617:G:H5'	6:AF:219:ASN:ND2	2.13	0.64
2:AA:800:A:C8	2:AA:802:A:O4'	2.51	0.64
2:AA:1020:A:C4'	12:AM:49:ARG:NH2	2.60	0.64
2:AA:1025:G:H8	2:AA:1134:G:O2'	1.80	0.64
2:AA:1062:G:H2'	2:AA:1062:G:N3	2.12	0.64
2:AA:1062:G:O6	2:AA:1077:A:C5	2.51	0.64
2:AA:1076:C:HO2'	11:AL:91:GLU:CB	2.00	0.64
2:AA:1087:G:N2	2:AA:1103:A:H3'	2.12	0.64
2:AA:1799:G:O2'	2:AA:1800:C:O5'	2.15	0.64
2:AA:1858:G:O2'	2:AA:1859:A:H5'	1.97	0.64
2:AA:1934:C:H5'	2:AA:1974:C:HO2'	1.63	0.64
2:AA:2022:U:H1'	2:AA:2034:U:O2	1.97	0.64
2:AA:2061:G:N7	2:AA:2501:C:H1'	2.12	0.64
2:AA:2081:C:O2'	2:AA:2082:A:H5'	1.97	0.64
2:AA:2082:A:H2'	2:AA:2082:A:N3	2.13	0.64
2:AA:2136:C:O5'	2:AA:2136:C:H6	1.81	0.64
2:AA:2469:A:H61	2:AA:2481:G:H1'	1.63	0.64
2:AA:2509:G:C2	2:AA:2510:C:C1'	2.80	0.64
2:AA:2573:C:OP1	2:AA:2575:C:OP2	2.15	0.64
2:AA:2740:A:N6	2:AA:2741:A:C6	2.66	0.64
2:AA:2808:U:O2'	2:AA:2810:A:OP1	2.15	0.64
2:AA:2886:G:N2	2:AA:2887:U:C2	2.65	0.64
3:AC:22:ILE:HG13	3:AC:228:SER:O	1.97	0.64
3:AC:36:LYS:CE	3:AC:37:PHE:H	2.09	0.64
4:AD:85:ASN:HB2	4:AD:86:ARG:HE	1.63	0.64
9:AI:57:THR:HG21	9:AJ:110:GLU:HG3	1.79	0.64
10:AK:19:LYS:HE3	10:AK:20:ASN:N	2.13	0.64
15:AP:31:PHE:HZ	15:AP:88:PHE:CD2	2.15	0.64
15:AP:46:VAL:HG13	15:AP:156:ASN:HD22	1.63	0.64
16:AQ:97:VAL:C	16:AQ:98:GLU:HG2	2.21	0.64
20:AU:11:GLN:HG3	20:AU:21:LYS:HZ1	1.60	0.64
21:AV:45:GLN:O	21:AV:46:GLN:HB3	1.97	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:43:PRO:CB	22:AW:46:ILE:HG12	2.28	0.64
23:AX:16:PRO:HB2	23:AX:19:GLN:CG	2.28	0.64
25:A1:47:TYR:O	25:A1:50:ARG:HB2	1.97	0.64
28:A4:35:VAL:HG12	28:A4:36:TRP:N	2.12	0.64
29:A5:45:ILE:HG23	29:A5:52:TYR:CD1	2.33	0.64
30:A6:17:GLY:O	30:A6:18:THR:HG22	1.96	0.64
32:A8:22:VAL:O	32:A8:48:PHE:CD2	2.51	0.64
32:A8:23:MET:HG2	32:A8:46:LYS:HB3	1.78	0.64
34:BA:8:A:O4'	40:BH:102:ALA:HA	1.97	0.64
34:BA:36:C:O2	34:BA:548:G:N1	2.27	0.64
34:BA:266:G:H22	34:BA:270:A:H62	1.44	0.64
34:BA:291:C:H2'	34:BA:291:C:O2	1.95	0.64
34:BA:301:G:N2	34:BA:302:G:H1'	2.12	0.64
34:BA:499:A:C8	34:BA:547:A:N6	2.66	0.64
34:BA:502:G:O2'	34:BA:503:C:H5'	1.96	0.64
34:BA:674:G:H2'	34:BA:675:A:C8	2.32	0.64
34:BA:790:A:N6	34:BA:791:G:C6	2.66	0.64
34:BA:994:A:N1	34:BA:1047:G:H4'	2.12	0.64
34:BA:1263:C:N3	34:BA:1272:G:N2	2.38	0.64
34:BA:1314:C:N4	54:BV:4:SER:HB2	2.06	0.64
34:BA:1451:A:H5''	34:BA:1452:C:H41	1.60	0.64
37:BE:56:ARG:CB	37:BE:56:ARG:NH1	2.61	0.64
41:BI:26:ILE:O	41:BI:30:LEU:HD12	1.96	0.64
41:BI:85:VAL:HG12	41:BI:88:VAL:HG23	1.80	0.64
42:BJ:115:ARG:HB2	42:BJ:118:VAL:HG21	1.79	0.64
44:BL:48:GLU:O	44:BL:51:ARG:N	2.30	0.64
45:BM:6:ILE:HD11	45:BM:23:ILE:HG21	1.79	0.64
46:BN:108:ILE:O	53:BU:87:ARG:O	2.15	0.64
48:BP:91:ARG:CB	48:BP:98:VAL:HG13	2.27	0.64
50:BR:66:LEU:N	50:BR:66:LEU:HD22	2.12	0.64
1:AB:73:A:H2'	1:AB:74:U:H6	1.62	0.64
2:AA:24:G:H2'	2:AA:25:U:O4'	1.98	0.64
2:AA:257:A:O5'	2:AA:257:A:C8	2.50	0.64
2:AA:265:A:O2'	2:AA:266:G:O4'	2.08	0.64
2:AA:270(Z):U:O2'	2:AA:271(A):C:OP1	2.12	0.64
2:AA:295:G:N1	2:AA:344:G:C6	2.66	0.64
2:AA:312:G:O4'	2:AA:312:G:OP1	2.16	0.64
2:AA:364:C:H2'	2:AA:365:C:H5	1.58	0.64
2:AA:464:U:C1'	2:AA:788:A:N1	2.61	0.64
2:AA:566:U:C5'	26:A2:81:ARG:NH2	2.60	0.64
2:AA:738:G:N3	2:AA:739:G:H1'	2.11	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:834:C:O2'	2:AA:2358:G:N3	2.19	0.64
2:AA:1153:C:H2'	2:AA:1153:C:O2	1.97	0.64
2:AA:1202:C:O2	2:AA:1202:C:C2'	2.46	0.64
2:AA:1299:G:N2	2:AA:1641:A:H62	1.95	0.64
2:AA:1304:C:H2'	2:AA:1304:C:O2	1.97	0.64
2:AA:1412:A:H2'	2:AA:1413:G:C8	2.33	0.64
2:AA:1449:A:C5'	2:AA:1528:A:C2	2.80	0.64
2:AA:1472:A:N7	2:AA:1474:C:N4	2.44	0.64
2:AA:1543:A:H2'	2:AA:1544:C:O4'	1.97	0.64
2:AA:1637:A:H4'	2:AA:2711:A:HO2'	1.62	0.64
2:AA:1815:A:HO2'	2:AA:1816:G:P	2.20	0.64
2:AA:2018:G:H3'	2:AA:2018:G:P	2.36	0.64
2:AA:2241:A:H2'	2:AA:2242:G:C8	2.33	0.64
2:AA:2250:G:C8	2:AA:2250:G:C3'	2.80	0.64
2:AA:2271:G:OP1	27:A3:17:ASN:HA	1.97	0.64
2:AA:2290:G:C6	2:AA:2291:U:N3	2.65	0.64
2:AA:2532:G:H2'	2:AA:2533:A:O4'	1.97	0.64
2:AA:2815:C:C2	2:AA:2816:C:C6	2.86	0.64
4:AD:77:VAL:O	4:AD:113:MET:HG3	1.98	0.64
4:AD:140:VAL:HG13	4:AD:191:VAL:CG1	2.27	0.64
4:AD:196:ASN:OD1	4:AD:196:ASN:O	2.16	0.64
4:AD:235:PRO:O	4:AD:236:PHE:CB	2.45	0.64
5:AE:231:TRP:O	5:AE:232:ARG:CG	2.44	0.64
8:AH:86:LEU:HD13	8:AH:86:LEU:O	1.97	0.64
9:AI:13:LEU:HD22	9:AI:17:GLU:HB3	1.79	0.64
10:AK:66:LYS:HB3	10:AK:69:LYS:HZ3	1.61	0.64
11:AL:79:LEU:CD2	11:AL:137:ILE:HG21	2.26	0.64
13:AN:7:ARG:HB3	13:AN:44:LYS:HZ1	1.61	0.64
19:AT:7:HIS:H	19:AT:27:ALA:HB3	1.61	0.64
20:AU:19:ARG:O	20:AU:22:GLN:CB	2.45	0.64
21:AV:138:VAL:HG23	21:AV:140:LYS:HD2	1.80	0.64
22:AW:33:VAL:O	22:AW:36:ALA:HB3	1.98	0.64
23:AX:7:LYS:HG3	23:AX:33:GLN:O	1.97	0.64
25:A1:73:GLY:O	25:A1:74:MET:CG	2.45	0.64
26:A2:10:LYS:O	26:A2:12:TYR:HB2	1.97	0.64
26:A2:39:PHE:CZ	26:A2:41:GLY:O	2.50	0.64
26:A2:65:ARG:O	26:A2:93:ILE:HA	1.97	0.64
29:A5:21:SER:O	29:A5:22:HIS:C	2.36	0.64
34:BA:123:C:OP1	34:BA:312:C:H5'	1.98	0.64
34:BA:363:A:N7	47:BO:31:PRO:HD2	2.12	0.64
34:BA:421:U:O2	38:BF:127:ARG:CZ	2.46	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:517:G:H22	34:BA:533:A:P	2.20	0.64
34:BA:627:G:N3	34:BA:628:G:N7	2.45	0.64
34:BA:745:C:C5'	34:BA:851:G:N3	2.50	0.64
34:BA:1079:G:O3'	40:BH:14:ARG:NH2	2.30	0.64
34:BA:1124:G:OP1	45:BM:35:SER:OG	2.16	0.64
34:BA:1287:A:N6	34:BA:1371:G:O4'	2.30	0.64
34:BA:1350:A:OP2	44:BL:118:LYS:CD	2.46	0.64
35:BB:8:U:C4	35:BB:13:C:C4	2.85	0.64
35:BC:28:C:O5'	35:BC:28:C:H6	1.81	0.64
35:BC:33:U:H2'	35:BC:35:A:OP2	1.98	0.64
37:BE:50:GLU:OE2	37:BE:200:ILE:HB	1.97	0.64
38:BF:88:ARG:HE	38:BF:101:LEU:H	1.42	0.64
39:BG:62:GLN:HE21	39:BG:62:GLN:HA	1.61	0.64
39:BG:92:VAL:HG12	39:BG:96:LEU:HD13	1.79	0.64
39:BG:129:ASN:ND2	39:BG:144:ASP:HB3	2.12	0.64
39:BG:177:ASP:C	39:BG:179:GLU:H	2.04	0.64
40:BH:82:VAL:HG21	40:BH:137:GLU:HB3	1.79	0.64
42:BJ:64:GLN:O	42:BJ:68:ASN:ND2	2.29	0.64
42:BJ:99:LEU:O	42:BJ:103:TRP:HB2	1.97	0.64
43:BK:29:SER:O	43:BK:33:GLU:HB2	1.97	0.64
43:BK:126:LYS:HD2	43:BK:126:LYS:C	2.21	0.64
44:BL:23:ASN:ND2	44:BL:24:GLY:N	2.45	0.64
47:BO:30:ALA:HB1	47:BO:31:PRO:HD2	1.78	0.64
47:BO:79:GLU:OE1	47:BO:80:HIS:HE1	1.80	0.64
48:BP:22:ILE:CB	48:BP:25:ILE:HG13	2.12	0.64
48:BP:37:THR:HG21	48:BP:56:LEU:CD2	2.28	0.64
50:BR:83:GLU:O	50:BR:84:LYS:C	2.41	0.64
54:BV:67:VAL:O	54:BV:69:HIS:N	2.30	0.64
55:BW:83:ARG:O	55:BW:86:ARG:HG2	1.96	0.64
55:BW:104:LEU:O	55:BW:106:ALA:N	2.31	0.64
56:BX:20:LYS:HG2	56:BX:21:TYR:H	1.62	0.64
1:AB:12:C:C6	27:A3:53:MET:HA	2.32	0.64
1:AB:97:G:C4	1:AB:98:G:C8	2.86	0.64
2:AA:56:A:H3'	2:AA:57:C:C5	2.32	0.64
2:AA:72:U:O2'	22:AW:54:ALA:HB2	1.98	0.64
2:AA:224:G:N2	2:AA:225:A:H1'	2.13	0.64
2:AA:288:C:H6	2:AA:288:C:C5'	2.11	0.64
2:AA:291:C:C4	2:AA:349:G:C2	2.86	0.64
2:AA:357:A:C2'	2:AA:358:U:H5''	2.27	0.64
2:AA:374:A:C4	2:AA:375:C:C6	2.85	0.64
2:AA:445:C:C2'	25:A1:3:ARG:HH21	2.11	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:452:G:C2	2:AA:458:G:N2	2.65	0.64
2:AA:747:U:C4	2:AA:2613:U:C5	2.85	0.64
2:AA:752:A:O2'	2:AA:753:C:OP2	2.16	0.64
2:AA:752:A:O2'	2:AA:753:C:P	2.56	0.64
2:AA:1238:G:C6	2:AA:1239:G:C8	2.85	0.64
2:AA:1342:A:C2	2:AA:1397:U:C6	2.86	0.64
2:AA:1523:U:H2'	2:AA:1524:G:O4'	1.98	0.64
2:AA:1529:A:H2'	2:AA:1530:G:H5'	1.79	0.64
2:AA:1529:A:N3	2:AA:1530:G:H4'	2.13	0.64
2:AA:1592:C:H2'	2:AA:1593:G:H8	1.57	0.64
2:AA:1609:A:C5	2:AA:1616:A:N3	2.66	0.64
2:AA:1625:C:H2'	2:AA:1626:G:C5'	2.28	0.64
2:AA:1669:A:C2'	2:AA:1670:C:C5'	2.73	0.64
2:AA:1676:A:O2'	2:AA:1677:A:C5'	2.46	0.64
2:AA:1697:G:C4'	2:AA:1698:A:H5'	2.27	0.64
2:AA:1807:G:C2	2:AA:1809:A:OP2	2.51	0.64
2:AA:1832:C:N4	2:AA:1833:U:O4	2.30	0.64
2:AA:2110:G:H2'	2:AA:2111:C:C6	2.33	0.64
2:AA:2110:G:O2'	2:AA:2111:C:OP1	2.16	0.64
2:AA:2115:G:N3	2:AA:2115:G:H2'	2.12	0.64
2:AA:2122:U:O2'	3:AC:166:ASP:CB	2.42	0.64
2:AA:2132:U:O2	2:AA:2133:G:H3'	1.98	0.64
2:AA:2144:U:H5'	2:AA:2146:C:N3	2.13	0.64
2:AA:2423:U:H2'	2:AA:2423:U:O2	1.96	0.64
2:AA:2468:G:N2	2:AA:2481:G:C1'	2.61	0.64
2:AA:2511:U:O4	2:AA:2575:C:N3	2.30	0.64
2:AA:2819:G:H2'	2:AA:2821:A:N7	2.13	0.64
3:AC:69:GLY:C	3:AC:71:GLN:H	2.05	0.64
5:AE:222:ARG:N	5:AE:222:ARG:CD	2.56	0.64
9:AJ:22:VAL:HG22	9:AJ:41:ALA:HB3	1.78	0.64
9:AJ:38:ALA:O	9:AJ:41:ALA:HB3	1.98	0.64
10:AK:4:ILE:HD12	10:AK:38:GLU:C	2.23	0.64
10:AK:126:TYR:N	10:AK:126:TYR:HD1	1.96	0.64
12:AM:14:ALA:C	12:AM:40:ASN:ND2	2.52	0.64
14:AO:120:LEU:O	14:AO:140:VAL:HB	1.97	0.64
21:AV:156:GLU:O	21:AV:157:GLY:C	2.40	0.64
22:AW:20:LEU:CA	22:AW:23:LEU:HG	2.28	0.64
23:AX:55:ARG:HB2	23:AX:55:ARG:CZ	2.27	0.64
25:A1:19:LYS:O	25:A1:20:ARG:C	2.38	0.64
28:A4:57:ASP:HA	28:A4:61:LYS:HE2	1.80	0.64
34:BA:15:G:C4'	40:BH:24:ARG:HH22	2.10	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:118:U:N3	34:BA:289:G:H4'	2.09	0.64
34:BA:146:G:H1	34:BA:176:C:H42	1.45	0.64
34:BA:296:U:O2'	34:BA:297:G:H5'	1.97	0.64
34:BA:412:A:O2'	34:BA:413:G:H5''	1.97	0.64
34:BA:423:G:H2'	34:BA:424:G:O4'	1.96	0.64
34:BA:459:G:N2	34:BA:462:G:C5	2.65	0.64
34:BA:502:G:H4'	34:BA:550:G:O2'	1.97	0.64
34:BA:694:A:C2'	34:BA:695:A:O5'	2.45	0.64
34:BA:778:G:N3	34:BA:779:C:C6	2.66	0.64
34:BA:836:G:N2	34:BA:837:G:H1'	2.13	0.64
34:BA:946:A:H61	34:BA:1235:U:H3	1.45	0.64
34:BA:1465:C:H2'	34:BA:1465:C:O2	1.97	0.64
34:BA:1539:C:C2'	34:BA:1540:U:H5'	2.27	0.64
35:BB:5:A:H61	35:BB:68:U:H3	1.43	0.64
35:BB:34:G:C2	36:B1:66:G:O6	2.50	0.64
35:BB:37:G:OP2	35:BB:37:G:H8	1.77	0.64
35:BB:56:C:C6	35:BB:56:C:C3'	2.80	0.64
35:BC:54:U:H2'	35:BC:55:U:H5'	1.79	0.64
38:BF:51:GLY:O	38:BF:52:LEU:O	2.16	0.64
39:BG:20:TYR:C	39:BG:22:LYS:H	2.03	0.64
39:BG:25:ARG:HH21	39:BG:30:LYS:HD3	1.61	0.64
39:BG:100:ARG:NH2	39:BG:137:SER:HA	2.13	0.64
43:BK:38:ILE:HD13	43:BK:38:ILE:N	2.12	0.64
47:BO:23:LYS:O	47:BO:24:VAL:HG23	1.97	0.64
47:BO:32:PHE:CB	47:BO:84:LEU:HD21	2.19	0.64
47:BO:76:ASN:HD21	47:BO:107:ALA:HA	1.61	0.64
48:BP:66:LEU:O	48:BP:70:LEU:CB	2.46	0.64
48:BP:90:LEU:HA	48:BP:93:ARG:HD2	1.80	0.64
51:BS:18:ARG:HD3	51:BS:35:LYS:NZ	2.13	0.64
55:BW:43:LEU:HB3	55:BW:52:ALA:HB2	1.79	0.64
55:BW:49:ALA:HA	55:BW:92:LEU:HD22	1.80	0.64
55:BW:53:LEU:O	55:BW:54:LYS:C	2.40	0.64
1:AB:99:A:C6	1:AB:100:G:C6	2.85	0.64
2:AA:85:G:HO2'	2:AA:103:A:H2	1.45	0.64
2:AA:198:C:H2'	2:AA:198:C:O2	1.96	0.64
2:AA:242:G:H3'	32:A8:5:LYS:NZ	2.12	0.64
2:AA:294:A:N1	2:AA:346:A:N1	2.45	0.64
2:AA:328:U:O2'	20:AU:94:SER:OG	2.13	0.64
2:AA:769:G:C6	2:AA:770:G:N7	2.65	0.64
2:AA:782:A:H1'	2:AA:783:A:H62	1.63	0.64
2:AA:844:C:C6	2:AA:845:G:N7	2.65	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:908:C:O2	2:AA:908:C:H2'	1.98	0.64
2:AA:959:A:N1	2:AA:960:A:N6	2.46	0.64
2:AA:970:C:O2	2:AA:971:C:H6	1.80	0.64
2:AA:971:C:O2	2:AA:971:C:C2'	2.44	0.64
2:AA:1066:U:H2'	2:AA:1067:A:H5''	1.79	0.64
2:AA:1067:A:C6	2:AA:1068:G:O6	2.51	0.64
2:AA:1124:C:H3'	2:AA:1125:G:H8	1.63	0.64
2:AA:1169:G:N2	2:AA:1181:C:C4	2.65	0.64
2:AA:1434:A:N6	2:AA:1558:A:H61	1.92	0.64
2:AA:1555:G:O4'	2:AA:1555:G:OP1	2.14	0.64
2:AA:1563:G:O2'	2:AA:1564:C:H5'	1.98	0.64
2:AA:1748:G:H2'	2:AA:1749:A:C8	2.33	0.64
2:AA:1753:G:H3'	2:AA:1753:G:C8	2.33	0.64
2:AA:1774:C:C4	2:AA:1775:U:O4	2.51	0.64
2:AA:1782:C:C2	2:AA:2609:U:C6	2.86	0.64
2:AA:1785:A:C8	2:AA:1785:A:C3'	2.81	0.64
2:AA:1838:C:H2'	2:AA:1898:U:C4	2.33	0.64
2:AA:1980:G:C6	2:AA:1982:C:N4	2.66	0.64
2:AA:2129:C:OP1	3:AC:37:PHE:CZ	2.50	0.64
2:AA:2262:U:H5	27:A3:14:ARG:HH22	1.43	0.64
2:AA:2469:A:H2	2:AA:2482:G:H1'	1.63	0.64
2:AA:2484:G:C2	2:AA:2485:G:O4'	2.51	0.64
2:AA:2647:U:H1'	2:AA:2674:G:N2	2.12	0.64
2:AA:2793:G:H2'	2:AA:2794:C:C6	2.33	0.64
2:AA:2872:G:N2	2:AA:2873:A:N1	2.46	0.64
3:AC:10:LEU:HD11	3:AC:32:LEU:O	1.98	0.64
3:AC:73:ARG:N	3:AC:111:ASP:OD2	2.30	0.64
3:AC:108:MET:HE3	3:AC:136:LEU:HD11	1.80	0.64
4:AD:203:PRO:C	4:AD:204:PHE:CD1	2.76	0.64
6:AF:193:LEU:HD13	6:AF:223:LEU:HB2	1.80	0.64
8:AH:37:HIS:CE1	8:AH:67:THR:HG21	2.33	0.64
8:AH:41:THR:OG1	8:AH:54:PRO:HB3	1.97	0.64
9:AJ:83:LEU:CD1	9:AJ:91:LEU:HD12	2.28	0.64
11:AL:25:GLY:CA	11:AL:35:ILE:HD13	2.20	0.64
11:AL:43:ASN:O	11:AL:44:ALA:C	2.41	0.64
12:AM:15:ARG:NE	12:AM:40:ASN:ND2	2.46	0.64
12:AM:27:ALA:O	12:AM:28:GLU:C	2.41	0.64
14:AO:94:ARG:HB2	14:AO:120:LEU:CD2	2.28	0.64
15:AP:57:ARG:O	15:AP:58:HIS:C	2.41	0.64
18:AS:8:ARG:HB3	18:AS:8:ARG:NH1	2.12	0.64
18:AS:89:ALA:H	18:AS:92:ARG:N	1.96	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:48:VAL:CG2	20:AU:98:VAL:HG22	2.28	0.64
21:AV:3:LEU:HD21	21:AV:38:ALA:CB	2.26	0.64
21:AV:91:PRO:HB2	21:AV:127:PRO:CA	2.26	0.64
24:A0:55:ALA:CA	24:A0:80:PHE:CE1	2.73	0.64
24:A0:105:ARG:NH1	24:A0:105:ARG:HB2	2.13	0.64
25:A1:56:ASP:C	25:A1:60:LEU:HD12	2.23	0.64
29:A5:57:VAL:O	29:A5:58:LEU:HD23	1.97	0.64
31:A7:21:ARG:NH2	31:A7:43:THR:OG1	2.30	0.64
34:BA:113:G:O6	34:BA:314:C:N3	2.31	0.64
34:BA:438:G:H5'	34:BA:439:A:OP1	1.98	0.64
34:BA:511:C:O2'	34:BA:512:U:H6	1.71	0.64
34:BA:828:A:N6	34:BA:858:G:O2'	2.30	0.64
34:BA:947:G:H2'	34:BA:948:C:C6	2.32	0.64
34:BA:956:U:O2	34:BA:960:U:O4	2.16	0.64
34:BA:1014:A:H2'	34:BA:1015:A:C8	2.33	0.64
34:BA:1307:U:H2'	34:BA:1308:U:H6	1.61	0.64
34:BA:1498:U:O2'	34:BA:1499:A:O5'	2.16	0.64
35:BB:11:C:N3	35:BB:12:U:O4	2.30	0.64
35:BB:37:G:N9	35:BB:38:A:N7	2.45	0.64
35:BB:40:C:O2'	48:BP:120:LYS:CE	2.46	0.64
35:BB:53:G:C5	35:BB:54:U:C5	2.86	0.64
37:BE:163:PHE:CZ	37:BE:186:ALA:CA	2.79	0.64
39:BG:19:LEU:HB3	39:BG:21:LEU:CD1	2.27	0.64
40:BH:95:ALA:O	40:BH:117:ASP:HB3	1.98	0.64
41:BI:39:LYS:CG	41:BI:64:GLN:HB3	2.27	0.64
42:BJ:88:PRO:CD	42:BJ:152:ALA:HA	2.28	0.64
42:BJ:146:GLU:HG2	42:BJ:149:ARG:NH2	2.13	0.64
44:BL:85:LEU:HD11	44:BL:92:TYR:HD1	1.62	0.64
50:BR:70:LEU:HG	50:BR:78:TYR:CB	2.27	0.64
1:AB:68:C:H3'	1:AB:69:G:C8	2.33	0.64
2:AA:327:G:C2'	2:AA:328:U:H5'	2.28	0.64
2:AA:562:U:C5	2:AA:2036:C:O4'	2.50	0.64
2:AA:599:G:H2'	2:AA:600:G:H8	1.63	0.64
2:AA:628:G:H8	2:AA:628:G:O5'	1.80	0.64
2:AA:673:C:OP1	6:AF:81:PRO:HD2	1.97	0.64
2:AA:680:G:O2'	2:AA:681:G:H5'	1.98	0.64
2:AA:702:G:H2'	2:AA:703:U:C6	2.33	0.64
2:AA:804:A:H5''	2:AA:805:G:OP1	1.98	0.64
2:AA:1047:G:N1	2:AA:1110:G:N7	2.46	0.64
2:AA:1057:A:O2'	9:AI:6:ILE:CD1	2.46	0.64
2:AA:1136:G:N2	2:AA:1137:G:C1'	2.60	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1218:C:O2	2:AA:1219:G:C8	2.51	0.64
2:AA:1301:A:N7	2:AA:1303:G:C1'	2.61	0.64
2:AA:1357:U:H2'	2:AA:1358:G:O4'	1.98	0.64
2:AA:1385:G:H1	2:AA:1402:C:N4	1.95	0.64
2:AA:1463:C:H2'	2:AA:1464:C:H6	1.63	0.64
2:AA:1468:C:N3	2:AA:1524:G:C2	2.65	0.64
2:AA:1471:A:N3	2:AA:1472:A:C1'	2.60	0.64
2:AA:1508:A:OP1	2:AA:1510:A:C6	2.50	0.64
2:AA:1555:G:H8	2:AA:1555:G:O5'	1.80	0.64
2:AA:1696:G:H2'	2:AA:1697:G:C8	2.33	0.64
2:AA:1789:A:H2'	2:AA:1790:C:H1'	1.80	0.64
2:AA:1819:A:H1'	2:AA:1821:A:N6	2.13	0.64
2:AA:1827:C:H1'	2:AA:1970:A:C2	2.33	0.64
2:AA:1992:G:C5	2:AA:1997:G:C5	2.84	0.64
2:AA:2051:A:N6	2:AA:2614:A:N7	2.45	0.64
2:AA:2057:A:C5'	29:A5:8:LYS:NZ	2.61	0.64
2:AA:2330:G:C2	2:AA:2331:G:C4	2.85	0.64
2:AA:2335:A:H2'	2:AA:2337:G:C8	2.33	0.64
2:AA:2354:G:H21	27:A3:32:LYS:HG3	1.63	0.64
2:AA:2436:G:C6	2:AA:2437:U:C5	2.86	0.64
2:AA:2436:G:C2'	2:AA:2437:U:O5'	2.46	0.64
2:AA:2486:G:H2'	2:AA:2487:G:O5'	1.98	0.64
2:AA:2494:G:N2	2:AA:2495:G:C4	2.66	0.64
2:AA:2505:G:O6	2:AA:2576:G:H1'	1.98	0.64
2:AA:2544:G:H5'	2:AA:2645:G:C8	2.29	0.64
2:AA:2836:U:C2	2:AA:2837:G:N7	2.66	0.64
2:AA:2850:A:H2'	2:AA:2851:A:H8	1.63	0.64
3:AC:215:THR:OG1	3:AC:216:THR:N	2.18	0.64
4:AD:76:ARG:HB3	4:AD:113:MET:HG2	1.78	0.64
5:AE:262:THR:OG1	5:AE:263:GLU:N	2.26	0.64
6:AF:38:ALA:O	6:AF:39:GLN:C	2.39	0.64
6:AF:93:LYS:C	6:AF:95:GLU:H	2.07	0.64
6:AF:113:SER:O	6:AF:116:ALA:HB3	1.97	0.64
6:AF:196:THR:HG22	6:AF:197:SER:H	1.62	0.64
6:AF:234:VAL:O	6:AF:234:VAL:HG23	1.98	0.64
7:AG:53:LYS:CG	7:AG:54:ALA:N	2.60	0.64
8:AH:67:THR:O	8:AH:71:LEU:HD12	1.98	0.64
10:AK:30:LEU:HA	10:AK:33:GLN:NE2	2.13	0.64
13:AN:34:ASN:HB2	13:AN:37:ASP:OD2	1.98	0.64
14:AO:95:ASP:OD1	14:AO:95:ASP:O	2.16	0.64
14:AO:124:ASP:O	14:AO:125:PHE:CD2	2.51	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:28:ILE:HG22	15:AP:29:ALA:N	2.13	0.64
15:AP:32:LYS:HE3	21:AV:172:LEU:CD1	2.27	0.64
15:AP:33:MET:C	15:AP:83:PHE:HB2	2.22	0.64
16:AQ:20:TYR:HE2	16:AQ:21:HIS:CD2	2.15	0.64
16:AQ:59:ALA:HB3	16:AQ:91:ARG:CZ	2.28	0.64
16:AQ:94:GLU:CG	16:AQ:95:ALA:N	2.61	0.64
18:AS:95:ILE:CG2	18:AS:96:ILE:N	2.61	0.64
19:AT:22:ASN:O	19:AT:23:LYS:C	2.41	0.64
19:AT:56:ASN:N	19:AT:56:ASN:HD22	1.94	0.64
24:A0:53:HIS:O	24:A0:56:LYS:HG3	1.98	0.64
25:A1:72:HIS:HE1	25:A1:107:LYS:HA	1.63	0.64
29:A5:31:THR:HG22	29:A5:42:SER:HA	1.80	0.64
31:A7:21:ARG:CZ	31:A7:43:THR:OG1	2.46	0.64
32:A8:26:LYS:HZ3	32:A8:43:GLY:HA2	1.63	0.64
32:A8:34:THR:O	32:A8:35:GLY:C	2.40	0.64
34:BA:131:C:C2	34:BA:231:G:N2	2.63	0.64
34:BA:311:C:O2'	34:BA:312:C:H5'	1.98	0.64
34:BA:332:G:O2'	34:BA:333:G:C5'	2.41	0.64
34:BA:373:A:N3	34:BA:374:A:C8	2.66	0.64
34:BA:627:G:O2'	34:BA:628:G:O5'	2.16	0.64
34:BA:714:G:O2'	34:BA:777:A:N7	2.24	0.64
34:BA:723:U:O2	34:BA:723:U:H2'	1.97	0.64
34:BA:769:G:O2'	34:BA:770:C:C5'	2.46	0.64
34:BA:841:U:C3'	34:BA:848:C:H5'	2.28	0.64
34:BA:1091:U:O2	34:BA:1093:A:N7	2.31	0.64
34:BA:1227:A:H8	34:BA:1228:C:O4'	1.80	0.64
34:BA:1278:U:H4'	34:BA:1279:A:C8	2.33	0.64
34:BA:1284:C:H2'	34:BA:1285:A:H8	1.61	0.64
34:BA:1316:G:C5'	49:BQ:17:LYS:HD2	2.11	0.64
34:BA:1321:C:C5	34:BA:1322:C:C2	2.86	0.64
34:BA:1405:G:C2	34:BA:1406:U:C5	2.86	0.64
34:BA:1480:G:H2'	34:BA:1481:U:C5'	2.28	0.64
35:BB:37:G:N9	35:BB:38:A:C8	2.66	0.64
35:BC:50:U:H2'	35:BC:51:G:C8	2.33	0.64
38:BF:57:ILE:HG23	38:BF:66:VAL:HG22	1.80	0.64
38:BF:95:THR:C	38:BF:97:LYS:H	2.04	0.64
39:BG:15:GLU:HG2	39:BG:63:LYS:HB3	1.80	0.64
39:BG:59:ARG:NH1	39:BG:59:ARG:CA	2.56	0.64
39:BG:118:ARG:HG3	39:BG:118:ARG:HH21	1.62	0.64
40:BH:105:VAL:CG2	40:BH:132:ALA:HB2	2.27	0.64
42:BJ:129:GLU:CG	42:BJ:131:LYS:HE2	2.28	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BL:36:TYR:OH	44:BL:70:LYS:NZ	2.31	0.64
45:BM:58:ASP:O	45:BM:59:SER:C	2.39	0.64
47:BO:102:ARG:HB3	47:BO:109:GLY:HA2	1.79	0.64
49:BQ:40:CYS:C	49:BQ:42:ILE:H	2.03	0.64
53:BU:47:THR:H	53:BU:49:LYS:NZ	1.96	0.64
1:AB:82:G:N3	1:AB:83:G:C8	2.66	0.63
2:AA:16:G:O6	2:AA:524:U:O2	2.17	0.63
2:AA:70:G:C5	2:AA:114:U:O4	2.51	0.63
2:AA:136:G:C3'	2:AA:137:C:H4'	2.27	0.63
2:AA:181:A:H2'	2:AA:182:A:H8	1.63	0.63
2:AA:273(B):C:O2	2:AA:363(D):G:N1	2.31	0.63
2:AA:288:C:C6	2:AA:288:C:C3'	2.80	0.63
2:AA:355:G:H2'	2:AA:356:G:C8	2.33	0.63
2:AA:569:U:OP1	2:AA:945:A:N1	2.30	0.63
2:AA:622:G:O2'	2:AA:623:G:H5'	1.98	0.63
2:AA:804:A:OP1	2:AA:805:G:OP1	2.15	0.63
2:AA:831:G:H2'	2:AA:832:G:H5'	1.79	0.63
2:AA:942:G:C2	2:AA:943:U:C4	2.86	0.63
2:AA:975:G:N7	2:AA:990:A:C6	2.65	0.63
2:AA:1000:A:C8	2:AA:1001:A:C5	2.86	0.63
2:AA:1063:G:N2	2:AA:1076:C:C6	2.66	0.63
2:AA:1162:G:H4'	26:A2:23:GLU:HB2	1.79	0.63
2:AA:1213:A:C6	2:AA:1237:A:H1'	2.32	0.63
2:AA:1312:U:C4	19:AT:58:MET:HE2	2.34	0.63
2:AA:1322:A:O2'	2:AA:1323:U:H5'	1.98	0.63
2:AA:1359:A:H2'	2:AA:1360:A:C5'	2.27	0.63
2:AA:1468:C:N4	2:AA:1524:G:C6	2.66	0.63
2:AA:1469:A:N6	2:AA:1470:G:H1	1.96	0.63
2:AA:1613:G:N1	2:AA:1619:G:C5	2.67	0.63
2:AA:1654:A:N3	2:AA:1654:A:H2'	2.12	0.63
2:AA:1672:C:H2'	2:AA:1673:U:C5'	2.29	0.63
2:AA:1780:A:OP2	2:AA:1782:C:P	2.56	0.63
2:AA:1857:G:H3'	2:AA:1857:G:H8	1.63	0.63
2:AA:2015:A:OP2	2:AA:2015:A:O4'	2.16	0.63
2:AA:2023:G:O2'	2:AA:2024:G:H5'	1.99	0.63
2:AA:2092:U:C5	2:AA:2227:A:N6	2.61	0.63
2:AA:2106:G:H1	2:AA:2183:C:N4	1.94	0.63
2:AA:2348:U:P	32:A8:42:ARG:HH12	2.20	0.63
2:AA:2432:A:C2	2:AA:2433:A:C6	2.86	0.63
2:AA:2589:A:O2'	2:AA:2590:A:C5'	2.46	0.63
2:AA:2615:U:O2'	2:AA:2616:C:O5'	2.16	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2713:A:H3'	2:AA:2714:G:H5'	1.80	0.63
2:AA:2899:G:C4	2:AA:2900:A:N7	2.66	0.63
3:AC:173:ALA:HB1	3:AC:174:PRO:CD	2.24	0.63
4:AD:89:ASN:O	4:AD:105:ALA:CA	2.46	0.63
6:AF:163:HIS:HA	6:AF:166:ILE:HG13	1.80	0.63
6:AF:194:PHE:CB	6:AF:211:ASP:O	2.46	0.63
6:AF:215:ALA:HA	6:AF:242:GLU:HG3	1.80	0.63
6:AF:215:ALA:C	6:AF:242:GLU:HG2	2.23	0.63
6:AF:238:SER:O	6:AF:241:ALA:N	2.31	0.63
7:AG:51:ARG:HH12	7:AG:74:THR:HG23	1.62	0.63
7:AG:90:LEU:HD22	48:BP:3:ARG:HH11	1.62	0.63
8:AH:67:THR:CG2	8:AH:71:LEU:HD11	2.21	0.63
10:AK:40:THR:O	10:AK:43:ASN:N	2.29	0.63
10:AK:79:ILE:HD12	10:AK:144:HIS:O	1.97	0.63
12:AM:15:ARG:HA	12:AM:44:ALA:HA	1.80	0.63
12:AM:15:ARG:HD3	12:AM:43:ARG:NH1	2.13	0.63
12:AM:59:LYS:O	12:AM:63:ILE:CG1	2.41	0.63
12:AM:79:PHE:O	12:AM:83:ILE:HG12	1.98	0.63
12:AM:135:ILE:O	12:AM:139:LEU:CD1	2.46	0.63
12:AM:135:ILE:HD13	12:AM:135:ILE:N	2.12	0.63
13:AN:1:MET:HB3	13:AN:67:ARG:CZ	2.27	0.63
15:AP:26:LYS:HG3	15:AP:28:ILE:CG1	2.28	0.63
19:AT:5:ILE:CG2	19:AT:6:LYS:N	2.61	0.63
19:AT:6:LYS:HE3	19:AT:28:VAL:C	2.23	0.63
19:AT:45:TYR:O	19:AT:47:VAL:N	2.31	0.63
20:AU:18:GLU:O	20:AU:19:ARG:C	2.39	0.63
20:AU:46:ASP:OD2	20:AU:102:ASP:N	2.30	0.63
20:AU:49:GLU:HG2	20:AU:59:GLU:HA	1.80	0.63
20:AU:51:LEU:HB3	20:AU:97:ARG:NE	2.14	0.63
21:AV:149:ALA:O	21:AV:150:GLY:O	2.16	0.63
24:A0:57:ARG:HE	24:A0:62:ALA:HB2	1.63	0.63
24:A0:94:TYR:O	24:A0:116:LEU:HA	1.98	0.63
25:A1:50:ARG:HH22	26:A2:74:TYR:CA	2.10	0.63
25:A1:62:ILE:C	25:A1:65:ILE:HB	2.22	0.63
27:A3:25:LYS:HE2	27:A3:57:HIS:ND1	2.12	0.63
27:A3:49:GLN:HE22	27:A3:73:GLY:HA3	1.63	0.63
34:BA:108:G:C6	55:BW:15:ARG:NE	2.65	0.63
34:BA:150:C:H2'	34:BA:151:A:O4'	1.98	0.63
34:BA:197:A:O2'	34:BA:198:G:P	2.56	0.63
34:BA:814:A:N7	34:BA:816:A:C5	2.66	0.63
34:BA:873:A:H3'	34:BA:873:A:OP1	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:978:A:C6	34:BA:1319:A:C2	2.85	0.63
34:BA:1161:C:H2'	34:BA:1162:C:H6	1.62	0.63
34:BA:1233:G:O2'	34:BA:1365:G:OP1	2.15	0.63
35:BB:8:U:O5'	35:BB:8:U:C6	2.52	0.63
35:BC:1:G:N2	35:BC:2:C:C6	2.66	0.63
38:BF:26:LYS:O	38:BF:28:GLN:N	2.31	0.63
39:BG:106:TYR:HD1	39:BG:111:ALA:O	1.81	0.63
39:BG:106:TYR:CE1	39:BG:112:VAL:O	2.51	0.63
40:BH:79:GLU:CD	40:BH:79:GLU:H	2.05	0.63
42:BJ:31:MET:CG	42:BJ:32:ARG:H	2.07	0.63
44:BL:37:PHE:HB3	44:BL:43:ALA:HB2	1.79	0.63
45:BM:29:ARG:HB2	45:BM:84:GLN:NE2	2.11	0.63
45:BM:51:ARG:HA	49:BQ:45:ARG:CZ	2.28	0.63
46:BN:15:ALA:CA	46:BN:78:GLN:NE2	2.57	0.63
46:BN:34:ASP:N	46:BN:40:ILE:HD11	2.12	0.63
47:BO:28:LYS:HD2	47:BO:33:ARG:HH12	1.60	0.63
48:BP:77:ASN:HA	48:BP:80:ARG:HD3	1.81	0.63
48:BP:104:ARG:CG	48:BP:105:THR:HG23	2.28	0.63
48:BP:120:LYS:HG2	48:BP:121:LYS:N	2.13	0.63
50:BR:70:LEU:HG	50:BR:78:TYR:HD1	1.62	0.63
50:BR:81:LEU:O	50:BR:82:ILE:C	2.40	0.63
51:BS:12:LYS:HE2	51:BS:13:HIS:CE1	2.33	0.63
52:BT:5:VAL:CG1	52:BT:59:ILE:O	2.43	0.63
53:BU:56:THR:HB	53:BU:58:LEU:HD12	1.80	0.63
1:AB:33:G:C2'	1:AB:34:U:C6	2.74	0.63
2:AA:135:G:N2	2:AA:144:C:C2	2.66	0.63
2:AA:231:C:N4	2:AA:232:G:H22	1.94	0.63
2:AA:244:A:O2'	14:AO:55:GLN:NE2	2.30	0.63
2:AA:270(C):C:C5	2:AA:270(D):C:H5	2.15	0.63
2:AA:327:G:N1	2:AA:328:U:H6	1.95	0.63
2:AA:342:G:H1	2:AA:344:G:H22	0.72	0.63
2:AA:579:G:H5''	2:AA:2018:G:C5'	2.28	0.63
2:AA:737:C:N4	2:AA:759:G:H1	1.96	0.63
2:AA:873:G:H5'	15:AP:32:LYS:H	1.60	0.63
2:AA:911:A:C2	15:AP:16:ARG:HA	2.33	0.63
2:AA:935:C:HO2'	2:AA:936:C:C5'	2.11	0.63
2:AA:1022:G:H1	12:AM:47:THR:HG21	1.62	0.63
2:AA:1064:C:C2'	2:AA:1065:U:C6	2.82	0.63
2:AA:1107:G:O2'	2:AA:1108:U:H5'	1.98	0.63
2:AA:1174:A:N6	2:AA:1177:A:C4	2.66	0.63
2:AA:1181:C:C2	2:AA:1182:A:C8	2.86	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1394:U:H4'	2:AA:1603:A:C4'	2.29	0.63
2:AA:1420:U:O2'	2:AA:1421:G:O5'	2.13	0.63
2:AA:1475:G:N2	2:AA:1477:A:C5	2.65	0.63
2:AA:1494:A:C2	2:AA:1495:A:O4'	2.52	0.63
2:AA:1568:G:H3'	4:AD:60:GLN:CG	2.29	0.63
2:AA:1609:A:C6	2:AA:1616:A:C2	2.87	0.63
2:AA:1636:C:O2'	2:AA:1761:C:C1'	2.45	0.63
2:AA:1765:C:O2'	2:AA:1766:U:H5'	1.98	0.63
2:AA:1835:G:C2'	2:AA:1836:C:H5'	2.28	0.63
2:AA:1846:G:N1	2:AA:1895:C:C4	2.67	0.63
2:AA:1894:C:C2	2:AA:1895:C:C5	2.86	0.63
2:AA:1984:G:C6	2:AA:1985:G:N7	2.66	0.63
2:AA:2023:G:H5''	2:AA:2617:C:HO2'	1.63	0.63
2:AA:2044:C:C5	2:AA:2625:G:N2	2.66	0.63
2:AA:2072:G:H2'	2:AA:2073:C:H6	1.63	0.63
2:AA:2092:U:H5	2:AA:2227:A:H62	1.41	0.63
2:AA:2109:U:H6	2:AA:2109:U:O5'	1.82	0.63
2:AA:2138:C:O5'	2:AA:2138:C:H6	1.81	0.63
2:AA:2252:G:N2	35:BC:74:C:N4	2.41	0.63
2:AA:2312:U:O2'	7:AG:72:LYS:HE3	1.98	0.63
2:AA:2371:G:H4'	30:A6:47:HIS:CE1	2.34	0.63
2:AA:2407:G:H2'	2:AA:2408:U:C6	2.32	0.63
2:AA:2830:G:N2	2:AA:2883:A:C2	2.65	0.63
2:AA:2866:U:O2	2:AA:2868:A:H4'	1.98	0.63
3:AC:22:ILE:HG21	3:AC:189:ILE:HB	1.80	0.63
4:AD:122:ASP:O	4:AD:122:ASP:CG	2.41	0.63
4:AD:139:LEU:HD13	4:AD:192:GLY:H	1.61	0.63
5:AE:43:GLY:C	5:AE:44:TYR:HD1	2.07	0.63
5:AE:70:VAL:CG1	5:AE:71:THR:H	2.07	0.63
5:AE:208:LYS:HB3	5:AE:256:THR:O	1.99	0.63
5:AE:220:GLN:OE1	5:AE:223:LYS:HE2	1.98	0.63
8:AH:51:VAL:HG12	8:AH:52:THR:O	1.99	0.63
9:AI:13:LEU:HB3	9:AI:17:GLU:HB3	1.79	0.63
12:AM:12:VAL:HG12	12:AM:13:ASP:N	2.13	0.63
12:AM:135:ILE:HG23	12:AM:139:LEU:HD11	1.76	0.63
15:AP:89:PRO:HB2	15:AP:111:THR:HG22	1.80	0.63
17:AR:46:ALA:O	17:AR:49:LEU:HB3	1.98	0.63
19:AT:57:THR:CB	19:AT:59:ASP:OD2	2.46	0.63
24:A0:58:GLY:CA	24:A0:80:PHE:CE2	2.67	0.63
24:A0:73:VAL:O	24:A0:77:ARG:NH1	2.30	0.63
26:A2:19:VAL:CG1	26:A2:21:ARG:HH22	2.11	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:A7:33:ARG:O	31:A7:37:LYS:HB2	1.96	0.63
32:A8:5:LYS:H	32:A8:7:HIS:CE1	2.14	0.63
34:BA:166:G:C2	34:BA:167:G:C8	2.86	0.63
34:BA:174:C:N4	34:BA:175:C:N4	2.45	0.63
34:BA:264:U:H2'	52:BT:64:PRO:HB2	1.79	0.63
34:BA:451:A:N6	34:BA:480:U:H2'	2.13	0.63
34:BA:462:G:H21	51:BS:82:GLN:HE22	1.40	0.63
34:BA:598:U:H4'	43:BK:94:TYR:CB	2.28	0.63
34:BA:625:G:C2	34:BA:626:U:C2	2.86	0.63
34:BA:642:A:H8	34:BA:642:A:O5'	1.81	0.63
34:BA:817:C:C2	34:BA:819:A:H5'	2.33	0.63
34:BA:959:A:H2	34:BA:1221:G:N3	1.95	0.63
34:BA:962:C:O2'	34:BA:963:G:H5'	1.98	0.63
34:BA:1048:G:OP1	49:BQ:3:ARG:HA	1.99	0.63
34:BA:1054:C:H6	34:BA:1054:C:H3'	1.63	0.63
34:BA:1068:G:H1'	34:BA:1191:A:H61	1.62	0.63
34:BA:1127:G:C1'	34:BA:1148:U:H3	2.07	0.63
34:BA:1188:A:O2'	34:BA:1189:C:H5'	1.98	0.63
34:BA:1246:C:O2'	34:BA:1247:U:H5'	1.98	0.63
34:BA:1326:C:N4	34:BA:1327:C:N4	2.46	0.63
34:BA:1371:G:H5''	44:BL:68:GLY:CA	2.28	0.63
34:BA:1443:G:H5''	34:BA:1446:A:C5'	2.27	0.63
35:BC:34:G:H8	35:BC:34:G:O5'	1.79	0.63
36:B1:54:G:H2'	36:B1:54:G:N3	2.11	0.63
37:BE:165:VAL:HG23	37:BE:166:ASP:H	1.61	0.63
37:BE:171:ALA:O	37:BE:174:VAL:HB	1.97	0.63
38:BF:83:ARG:C	38:BF:85:ARG:H	2.05	0.63
39:BG:12:CYS:HB3	39:BG:31:CYS:O	1.98	0.63
39:BG:34:GLU:HG3	39:BG:35:ARG:HG2	1.80	0.63
39:BG:82:ALA:CB	39:BG:89:THR:HG23	2.28	0.63
39:BG:135:LEU:C	39:BG:137:SER:N	2.49	0.63
40:BH:116:THR:C	40:BH:117:ASP:CG	2.66	0.63
41:BI:14:LEU:CD1	41:BI:18:GLN:HB3	2.28	0.63
41:BI:39:LYS:CD	41:BI:64:GLN:NE2	2.56	0.63
41:BI:80:ARG:O	41:BI:81:ILE:O	2.16	0.63
46:BN:91:ARG:O	46:BN:94:ALA:HB3	1.99	0.63
47:BO:38:THR:O	47:BO:39:VAL:CG2	2.46	0.63
47:BO:117:ARG:NH2	47:BO:124:LYS:N	2.46	0.63
48:BP:15:VAL:O	48:BP:19:LEU:HG	1.99	0.63
48:BP:80:ARG:O	48:BP:84:ILE:HG23	1.99	0.63
51:BS:7:ALA:HB3	51:BS:18:ARG:CG	2.27	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:32:LYS:CB	54:BV:50:ALA:HB3	2.28	0.63
55:BW:56:MET:SD	55:BW:88:VAL:CG2	2.83	0.63
2:AA:28:A:H2'	2:AA:29:U:C5'	2.26	0.63
2:AA:63:U:C6	2:AA:63:U:OP2	2.51	0.63
2:AA:106:C:C2'	2:AA:107:C:H5'	2.27	0.63
2:AA:125:G:C5'	31:A7:19:ARG:NH1	2.49	0.63
2:AA:292:C:C2'	2:AA:293:U:H3	2.11	0.63
2:AA:531:C:C6	2:AA:532:A:N3	2.67	0.63
2:AA:612:G:H4'	2:AA:616:A:N1	2.13	0.63
2:AA:668:G:H2'	2:AA:670:A:H62	1.63	0.63
2:AA:873:G:O2'	21:AV:115:ILE:HD11	1.98	0.63
2:AA:977:G:H2'	2:AA:978:G:O4'	1.98	0.63
2:AA:989:G:H2'	2:AA:990:A:OP2	1.99	0.63
2:AA:1034:G:P	33:A9:18:ARG:NH2	2.71	0.63
2:AA:1057:A:N3	2:AA:1058:G:C8	2.67	0.63
2:AA:1084:A:H2	9:AI:29:PHE:CE1	2.16	0.63
2:AA:1085:A:O2'	2:AA:1086:A:C4'	2.46	0.63
2:AA:1299:G:C4'	2:AA:1301:A:N3	2.37	0.63
2:AA:1301:A:N7	2:AA:1303:G:N9	2.47	0.63
2:AA:1310:G:H1	2:AA:1604:C:H42	1.46	0.63
2:AA:1416:G:H22	2:AA:1581:G:H1	1.46	0.63
2:AA:1448:G:C2	2:AA:1449:A:N7	2.65	0.63
2:AA:1492:G:N1	2:AA:1498:C:N4	2.28	0.63
2:AA:1650:G:C5'	24:A0:104:ARG:HH22	2.09	0.63
2:AA:1758:G:H3'	2:AA:1759:A:H8	1.62	0.63
2:AA:1906:G:C1'	2:AA:1929:G:C8	2.82	0.63
2:AA:1944:U:O4'	2:AA:1955:U:C6	2.51	0.63
2:AA:1955:U:O2	2:AA:1955:U:H2'	1.99	0.63
2:AA:2076:U:H4'	2:AA:2077:A:OP1	1.99	0.63
2:AA:2195:C:C2	2:AA:2196:C:C6	2.86	0.63
2:AA:2290:G:C5	2:AA:2291:U:C4	2.87	0.63
2:AA:2311:A:O2'	7:AG:54:ALA:N	2.31	0.63
2:AA:2320:A:N6	16:AQ:9:PRO:HG3	2.13	0.63
2:AA:2447:G:C6	2:AA:2501:C:C2	2.85	0.63
3:AC:83:ILE:HG23	3:AC:94:VAL:HG12	1.80	0.63
4:AD:203:PRO:HB2	4:AD:205:VAL:HG13	1.80	0.63
5:AE:85:ALA:CB	5:AE:87:GLU:OE2	2.46	0.63
5:AE:214:VAL:CG2	5:AE:221:LYS:HZ1	2.11	0.63
5:AE:222:ARG:NH2	5:AE:234:ARG:N	2.41	0.63
6:AF:84:VAL:CG2	6:AF:85:LYS:NZ	2.60	0.63
7:AG:93:LEU:HD22	7:AG:106:PHE:HD2	1.62	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:25:VAL:HG12	8:AH:78:VAL:CG2	2.17	0.63
8:AH:84:LYS:HE3	8:AH:141:GLY:CA	2.28	0.63
10:AK:107:GLY:O	10:AK:109:LYS:HE3	1.99	0.63
11:AL:35:ILE:O	11:AL:39:CYS:SG	2.56	0.63
12:AM:56:LYS:O	12:AM:59:LYS:CB	2.46	0.63
13:AN:77:ILE:HD11	13:AN:79:PHE:CE2	2.32	0.63
14:AO:71:GLU:HG3	14:AO:72:ASN:N	2.13	0.63
14:AO:117:GLU:CD	14:AO:136:ALA:C	2.67	0.63
15:AP:48:ASN:OD1	15:AP:48:ASN:C	2.41	0.63
15:AP:66:ASN:O	15:AP:69:ASN:OD1	2.17	0.63
15:AP:88:PHE:CB	15:AP:90:PHE:HE1	2.12	0.63
16:AQ:102:LEU:H	16:AQ:102:LEU:CD1	1.92	0.63
18:AS:29:LEU:CD1	18:AS:33:ARG:HD2	2.28	0.63
25:A1:40:LEU:HD21	26:A2:83:ARG:NH2	2.13	0.63
25:A1:44:THR:OG1	26:A2:77:GLY:O	2.15	0.63
26:A2:14:VAL:CG2	26:A2:19:VAL:HG21	2.29	0.63
26:A2:21:ARG:HB2	26:A2:95:ILE:HD11	1.79	0.63
28:A4:58:LYS:O	28:A4:62:ARG:HG3	1.98	0.63
34:BA:113:G:H1'	34:BA:354:G:C5'	2.25	0.63
34:BA:193:C:O2'	34:BA:194:C:H5'	1.98	0.63
34:BA:406:G:C2	34:BA:407:G:N7	2.66	0.63
34:BA:462:G:N2	51:BS:82:GLN:HE21	1.95	0.63
34:BA:571:U:O4'	34:BA:819:A:N7	2.30	0.63
34:BA:595:G:H5''	34:BA:596:C:OP1	1.98	0.63
34:BA:673:G:C2'	34:BA:674:G:C8	2.81	0.63
34:BA:689:C:H2'	34:BA:689:C:O2	1.99	0.63
34:BA:790:A:C6	34:BA:791:G:C2	2.86	0.63
34:BA:819:A:H4'	34:BA:820:U:OP2	1.95	0.63
34:BA:965:A:O2'	34:BA:966:G:O5'	2.16	0.63
34:BA:1195:C:C2	34:BA:1197:G:C8	2.85	0.63
34:BA:1388:C:H2'	34:BA:1389:C:H6	1.61	0.63
34:BA:1405:G:C1'	34:BA:1519:A:H5'	2.29	0.63
34:BA:1435:G:H2'	34:BA:1436:U:C6	2.33	0.63
35:BB:19:G:H5'	35:BB:20:G:C6	2.34	0.63
36:B1:11:U:H2'	36:B1:12:U:C5	2.33	0.63
37:BE:67:THR:CG2	37:BE:155:LEU:HD11	2.27	0.63
37:BE:115:LEU:HB2	37:BE:149:LEU:CD1	2.29	0.63
38:BF:73:PRO:CD	38:BF:105:GLU:HG3	2.26	0.63
38:BF:88:ARG:HH21	38:BF:100:ALA:HB1	1.63	0.63
39:BG:64:LEU:HD13	39:BG:64:LEU:C	2.23	0.63
42:BJ:107:ALA:O	42:BJ:110:GLN:HB2	1.96	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:22:GLU:HA	43:BK:63:LEU:CD2	2.27	0.63
45:BM:51:ARG:O	45:BM:52:GLY:C	2.41	0.63
50:BR:8:LYS:O	50:BR:11:VAL:CB	2.41	0.63
51:BS:53:VAL:HG12	51:BS:78:GLY:O	1.98	0.63
52:BT:40:LYS:NZ	52:BT:42:TYR:OH	2.27	0.63
52:BT:67:LYS:HA	52:BT:70:ARG:HH22	1.59	0.63
53:BU:21:LYS:NZ	53:BU:23:LYS:CB	2.56	0.63
53:BU:77:GLY:O	53:BU:79:LEU:CD1	2.47	0.63
54:BV:18:LYS:HE3	54:BV:18:LYS:CA	2.28	0.63
1:AB:47:C:O3'	16:AQ:107:ASN:OD1	2.17	0.63
1:AB:69:G:N3	1:AB:69:G:C2'	2.61	0.63
2:AA:52:A:C2	2:AA:53:A:C4	2.85	0.63
2:AA:137(A):G:C6	2:AA:142:G:N2	2.65	0.63
2:AA:223:A:N6	2:AA:422:A:N6	2.46	0.63
2:AA:230:U:O2'	2:AA:231:C:O4'	2.08	0.63
2:AA:270(M):U:C4'	2:AA:270(N):G:H4'	2.18	0.63
2:AA:270(S):G:C4	2:AA:270(T):G:N7	2.66	0.63
2:AA:328:U:O2'	20:AU:94:SER:CB	2.46	0.63
2:AA:594:U:H2'	2:AA:595:C:H6	1.55	0.63
2:AA:1271:G:H2'	2:AA:1618:A:OP1	1.99	0.63
2:AA:1280:G:H2'	2:AA:1281:G:O5'	1.99	0.63
2:AA:1457:A:C6	2:AA:2703:C:N4	2.67	0.63
2:AA:1463:C:H2'	2:AA:1464:C:C6	2.33	0.63
2:AA:1475:G:N3	2:AA:1475:G:C2'	2.62	0.63
2:AA:1566:A:N3	4:AD:212:HIS:HB3	2.13	0.63
2:AA:1670:C:C5'	2:AA:1670:C:H6	2.10	0.63
2:AA:1698:A:O2'	2:AA:1699:G:O5'	2.17	0.63
2:AA:1758:G:H3'	2:AA:1759:A:C8	2.33	0.63
2:AA:2287:A:O2'	2:AA:2288:A:C5'	2.45	0.63
2:AA:2320:A:N6	16:AQ:13:ARG:HG2	2.13	0.63
2:AA:2419:U:OP1	32:A8:41:ILE:HD12	1.97	0.63
2:AA:2473:U:O2	2:AA:2473:U:H2'	1.98	0.63
2:AA:2593:U:H3	2:AA:2600:A:H61	1.44	0.63
2:AA:2662:A:C2	2:AA:2663:G:O4'	2.51	0.63
2:AA:2818:G:C2	2:AA:2829:C:N3	2.66	0.63
3:AC:5:LYS:NZ	3:AC:5:LYS:HB3	2.14	0.63
3:AC:157:LYS:O	3:AC:159:GLY:N	2.32	0.63
4:AD:77:VAL:HG21	4:AD:109:LEU:HB3	1.81	0.63
4:AD:81:GLU:HG3	4:AD:92:LEU:CD1	2.28	0.63
4:AD:143:ILE:O	4:AD:152:GLN:CA	2.46	0.63
5:AE:70:VAL:HG12	5:AE:71:THR:N	2.14	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:208:LYS:H	5:AE:257:GLY:CA	2.12	0.63
5:AE:311:PHE:N	5:AE:311:PHE:CD2	2.66	0.63
6:AF:36:ARG:O	6:AF:37:ALA:C	2.42	0.63
6:AF:200:PRO:HG3	6:AF:212:VAL:CG1	2.28	0.63
7:AG:19:GLU:CD	7:AG:135:VAL:CG2	2.71	0.63
8:AH:88:LEU:CD1	8:AH:95:ALA:N	2.60	0.63
8:AH:124:VAL:O	8:AH:125:PRO:C	2.42	0.63
9:AI:80:ILE:CG2	9:AI:103:LYS:HD2	2.23	0.63
9:AJ:103:LYS:CB	9:AJ:114:ILE:HD13	2.29	0.63
10:AK:7:LYS:HG3	10:AK:12:LYS:CD	2.29	0.63
12:AM:15:ARG:HA	12:AM:43:ARG:C	2.23	0.63
13:AN:85:VAL:HG21	13:AN:114:ILE:HD13	1.79	0.63
13:AN:120:GLU:CG	13:AN:122:ILE:HD11	2.24	0.63
18:AS:13:SER:O	18:AS:13:SER:OG	2.16	0.63
21:AV:17:SER:N	21:AV:36:ARG:CZ	2.61	0.63
21:AV:81:VAL:HG12	21:AV:82:ASP:N	2.13	0.63
22:AW:27:LEU:HD21	22:AW:49:LEU:CB	2.29	0.63
23:AX:20:LYS:CA	23:AX:23:LEU:HG	2.28	0.63
24:A0:20:LEU:CD2	24:A0:24:GLN:CG	2.76	0.63
24:A0:22:ARG:O	24:A0:26:LYS:HG3	1.99	0.63
25:A1:72:HIS:CG	25:A1:110:VAL:HG11	2.34	0.63
25:A1:83:LEU:O	25:A1:86:ALA:CB	2.39	0.63
26:A2:72:ARG:CB	26:A2:88:GLN:NE2	2.58	0.63
29:A5:12:SER:O	29:A5:14:SER:N	2.32	0.63
33:A9:9:LYS:HE3	33:A9:16:VAL:CG2	2.28	0.63
33:A9:32:HIS:O	33:A9:33:LYS:C	2.41	0.63
34:BA:106:C:C2	34:BA:107:G:C8	2.87	0.63
34:BA:247:G:H1	34:BA:277:C:N4	1.95	0.63
34:BA:295:C:H2'	34:BA:296:U:O4'	1.98	0.63
34:BA:351:G:H4'	34:BA:352:C:OP1	1.98	0.63
34:BA:530:G:O6	35:BB:34:G:N3	2.31	0.63
34:BA:571:U:C5'	34:BA:572:A:OP2	2.47	0.63
34:BA:620:C:N3	39:BG:135:LEU:HD13	2.13	0.63
34:BA:626:U:OP1	51:BS:38:TYR:HB3	1.99	0.63
34:BA:634:C:O2'	34:BA:635:G:H5'	1.97	0.63
34:BA:769:G:H21	34:BA:900:A:H61	1.47	0.63
34:BA:1017:G:H2'	34:BA:1018:C:H6	1.63	0.63
34:BA:1313:U:H5	54:BV:4:SER:HB3	1.63	0.63
34:BA:1338:G:C6	34:BA:1339:A:C6	2.87	0.63
34:BA:1419:G:N2	34:BA:1420:C:C2	2.67	0.63
34:BA:1464:G:C6	34:BA:1465:C:N4	2.66	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:19:G:N9	35:BB:57:G:N2	2.45	0.63
35:BB:48:C:N4	35:BB:59:U:O2	2.32	0.63
35:BB:53:G:N3	35:BB:54:U:C6	2.67	0.63
35:BB:74:C:C2'	35:BB:75:C:O5'	2.46	0.63
37:BE:82:ARG:HD2	37:BE:92:TYR:CE1	2.34	0.63
37:BE:104:ASN:O	37:BE:104:ASN:CG	2.41	0.63
38:BF:123:GLN:O	38:BF:126:ARG:N	2.31	0.63
41:BI:1:MET:HB3	41:BI:67:MET:O	1.99	0.63
42:BJ:72:ARG:HG2	42:BJ:72:ARG:HH11	1.64	0.63
43:BK:63:LEU:HG	43:BK:65:TYR:HH	1.63	0.63
43:BK:101:PRO:O	43:BK:102:ARG:HB2	1.98	0.63
46:BN:48:ILE:HD11	46:BN:64:ALA:CA	2.28	0.63
50:BR:77:ARG:NH1	50:BR:77:ARG:CB	2.60	0.63
51:BS:22:THR:HG22	51:BS:32:TYR:HB2	1.81	0.63
53:BU:17:SER:O	53:BU:18:ARG:CZ	2.46	0.63
2:AA:10:G:C2	2:AA:2629:A:C2	2.86	0.63
2:AA:59:U:O4'	2:AA:73:A:N7	2.32	0.63
2:AA:71:A:O2'	2:AA:72:U:H5''	1.98	0.63
2:AA:85:G:H1'	2:AA:103:A:C2	2.34	0.63
2:AA:199:A:C6	2:AA:2434:A:N1	2.67	0.63
2:AA:241:A:N3	2:AA:241:A:H2'	2.12	0.63
2:AA:242:G:H2'	2:AA:243:U:OP2	1.98	0.63
2:AA:270(H):C:C4	2:AA:270(R):G:N1	2.66	0.63
2:AA:339:U:C5	2:AA:340:A:N6	2.67	0.63
2:AA:507:A:H4'	2:AA:509:C:C6	2.33	0.63
2:AA:527:C:OP1	2:AA:527:C:H4'	1.99	0.63
2:AA:579:G:C2	2:AA:1262:A:C6	2.86	0.63
2:AA:603:A:N1	2:AA:625:G:N7	2.45	0.63
2:AA:640:C:N4	2:AA:641:C:N4	2.47	0.63
2:AA:697:C:H2'	2:AA:698:C:C6	2.33	0.63
2:AA:792:G:C5	2:AA:2440:C:C2	2.87	0.63
2:AA:838:C:O2'	2:AA:839:U:C5'	2.47	0.63
2:AA:1052:C:O2'	2:AA:1053:C:H5'	1.98	0.63
2:AA:1084:A:O4'	9:AI:38:ALA:N	2.29	0.63
2:AA:1162:G:H2'	2:AA:1163:G:C8	2.32	0.63
2:AA:1261:C:O2'	2:AA:1262:A:O5'	2.16	0.63
2:AA:1306:C:H2'	2:AA:1307:A:O4'	1.97	0.63
2:AA:1342:A:C4'	2:AA:1343:G:OP1	2.45	0.63
2:AA:1388:G:O2'	2:AA:1525:G:C5'	2.41	0.63
2:AA:1466:G:N3	2:AA:1547:C:N4	2.47	0.63
2:AA:1535:U:OP1	2:AA:1536:A:O5'	2.16	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1557:C:H3'	2:AA:1558:A:C5'	2.29	0.63
2:AA:1647:G:H4'	2:AA:1648:C:O5'	1.97	0.63
2:AA:1697:G:O2'	2:AA:1978:A:H5''	1.99	0.63
2:AA:1893:C:H2'	2:AA:1894:C:C6	2.33	0.63
2:AA:1965:C:C5'	2:AA:1966:A:O5'	2.46	0.63
2:AA:2051:A:N6	2:AA:2614:A:C8	2.65	0.63
2:AA:2275:C:O2'	15:AP:103:ALA:CB	2.46	0.63
2:AA:2317:C:H2'	2:AA:2318:G:C8	2.34	0.63
2:AA:2469:A:C2	2:AA:2482:G:H1'	2.33	0.63
2:AA:2486:G:N2	2:AA:2487:G:C4	2.66	0.63
2:AA:2511:U:OP1	5:AE:223:LYS:HE2	1.99	0.63
3:AC:62:VAL:HB	3:AC:195:ALA:CB	2.27	0.63
4:AD:169:LYS:N	4:AD:169:LYS:HZ2	1.96	0.63
4:AD:174:ARG:HB2	4:AD:174:ARG:CZ	2.28	0.63
5:AE:39:GLN:HB2	5:AE:174:LEU:HD21	1.81	0.63
6:AF:103:ASN:HB2	6:AF:106:GLU:CD	2.24	0.63
7:AG:28:GLY:HA2	7:AG:69:ILE:HD13	1.80	0.63
8:AH:29:LYS:HE3	8:AH:80:LYS:HA	1.79	0.63
8:AH:101:LYS:HG2	8:AH:115:GLU:HB2	1.79	0.63
10:AK:7:LYS:C	10:AK:12:LYS:HA	2.23	0.63
11:AL:96:ILE:HG23	11:AL:138:GLU:OE1	1.98	0.63
11:AL:105:ILE:CD1	11:AL:139:VAL:HG12	2.28	0.63
12:AM:19:MET:HE1	12:AM:22:VAL:CG2	2.29	0.63
14:AO:73:VAL:O	14:AO:74:THR:C	2.41	0.63
15:AP:140:TYR:CZ	15:AP:149:ILE:HA	2.32	0.63
21:AV:4:THR:O	21:AV:5:ALA:HB3	1.98	0.63
21:AV:19:ILE:CG1	21:AV:79:ILE:HG12	2.29	0.63
23:AX:21:ALA:O	23:AX:25:ALA:HB2	1.98	0.63
26:A2:39:PHE:N	26:A2:58:ALA:HB2	2.12	0.63
27:A3:58:THR:O	27:A3:58:THR:OG1	2.14	0.63
30:A6:42:PRO:HD3	30:A6:50:PHE:HZ	1.64	0.63
32:A8:29:LYS:NZ	32:A8:36:LYS:HE2	2.14	0.63
34:BA:225:C:C2'	34:BA:226:G:H5'	2.28	0.63
34:BA:236:G:C2'	34:BA:237:C:C6	2.78	0.63
34:BA:264:U:H2'	34:BA:264:U:O2	1.98	0.63
34:BA:544:G:C4	34:BA:545:C:C6	2.86	0.63
34:BA:778:G:O2'	34:BA:779:C:C5'	2.45	0.63
34:BA:809:G:C2	34:BA:810:C:C6	2.87	0.63
34:BA:933:G:C2'	34:BA:934:C:H5'	2.27	0.63
34:BA:965:A:HO2'	34:BA:966:G:C5'	2.08	0.63
34:BA:1111:A:C2	34:BA:1112:C:C2	2.87	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1118:C:P	44:BL:104:ARG:HB2	2.38	0.63
34:BA:1126:U:OP2	34:BA:1281:U:O2	2.16	0.63
34:BA:1155:G:H2'	34:BA:1156:G:H8	1.62	0.63
34:BA:1345:U:C2	34:BA:1377:A:N1	2.67	0.63
34:BA:1372:U:H2'	34:BA:1373:G:O4'	1.99	0.63
34:BA:1520:G:H2'	34:BA:1521:G:H8	1.63	0.63
35:BB:2:C:N4	35:BB:71:G:C6	2.64	0.63
35:BC:43:G:H2'	35:BC:44:A:H8	1.63	0.63
42:BJ:142:GLU:O	42:BJ:143:ARG:C	2.40	0.63
44:BL:89:ASN:O	44:BL:91:ASP:N	2.31	0.63
46:BN:27:ASN:CG	46:BN:55:LYS:HD2	2.23	0.63
51:BS:20:VAL:CG2	51:BS:32:TYR:HD2	2.11	0.63
51:BS:68:ASP:O	51:BS:70:ALA:N	2.32	0.63
52:BT:5:VAL:HG13	52:BT:59:ILE:C	2.24	0.63
55:BW:29:LYS:O	55:BW:30:LYS:C	2.36	0.63
55:BW:36:LEU:HD12	55:BW:62:LEU:CD1	2.28	0.63
55:BW:89:ARG:O	55:BW:93:GLU:HG3	1.98	0.63
2:AA:28:A:H1'	2:AA:513:A:C2	2.33	0.63
2:AA:221:A:C8	2:AA:221:A:H3'	2.33	0.63
2:AA:224:G:C2	2:AA:225:A:H1'	2.34	0.63
2:AA:288:C:C5	2:AA:289:A:H4'	2.34	0.63
2:AA:317:G:C2	2:AA:318:C:C2	2.87	0.63
2:AA:322:A:C2	2:AA:341:G:C4	2.86	0.63
2:AA:379:G:C6	2:AA:380:U:C5	2.87	0.63
2:AA:396:G:H1'	28:A4:39:VAL:HG11	1.80	0.63
2:AA:780:G:O6	4:AD:234:HIS:CE1	2.51	0.63
2:AA:864:G:C2'	2:AA:865:C:C1'	2.76	0.63
2:AA:953:A:N6	2:AA:965:C:C4	2.67	0.63
2:AA:963:U:H2'	2:AA:964:C:C6	2.33	0.63
2:AA:1007:C:H2'	2:AA:1008:C:H5	1.63	0.63
2:AA:1024:G:H1	2:AA:1138:G:H1	1.46	0.63
2:AA:1057:A:N1	2:AA:1082:U:O4	2.32	0.63
2:AA:1189:A:C3'	2:AA:1190:G:H5'	2.28	0.63
2:AA:1339:G:OP1	19:AT:11:THR:HG21	1.99	0.63
2:AA:1364:G:C4	28:A4:3:LYS:NZ	2.67	0.63
2:AA:1475:G:C6	2:AA:1477:A:N6	2.67	0.63
2:AA:1609:A:O2'	2:AA:1616:A:H4'	1.99	0.63
2:AA:1826:G:P	4:AD:227:VAL:HG21	2.39	0.63
2:AA:1858:G:N2	2:AA:1885:A:C8	2.66	0.63
2:AA:1947:C:H2'	2:AA:1948:G:H5'	1.80	0.63
2:AA:1995:U:H5''	2:AA:1995:U:C6	2.29	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2046:G:H1'	29:A5:22:HIS:ND1	2.14	0.63
2:AA:2209:C:N4	2:AA:2215:G:N1	2.29	0.63
2:AA:2261:C:OP2	27:A3:14:ARG:NE	2.32	0.63
2:AA:2286:A:C2	30:A6:27:ASN:HB3	2.31	0.63
2:AA:2459:A:C8	2:AA:2460:U:C5	2.86	0.63
2:AA:2508:G:O3'	2:AA:2555:U:H5'	1.99	0.63
2:AA:2623:G:O2'	2:AA:2624:G:H5'	1.98	0.63
2:AA:2684:U:H1'	13:AN:70:ARG:NH2	2.13	0.63
2:AA:2785:C:C4'	5:AE:99:VAL:HG13	2.28	0.63
3:AC:36:LYS:NZ	3:AC:36:LYS:HA	2.12	0.63
3:AC:131:LEU:C	3:AC:133:PRO:HD2	2.24	0.63
3:AC:133:PRO:CG	3:AC:134:ARG:H	2.10	0.63
4:AD:140:VAL:O	4:AD:160:SER:CB	2.46	0.63
5:AE:81:VAL:HB	5:AE:100:TRP:HZ3	1.63	0.63
5:AE:225:LYS:CB	5:AE:226:HIS:ND1	2.60	0.63
5:AE:257:GLY:C	5:AE:258:TYR:HD2	2.07	0.63
7:AG:21:VAL:HG23	7:AG:76:ARG:HA	1.81	0.63
7:AG:27:ILE:HG22	7:AG:29:HIS:H	1.64	0.63
8:AH:7:PRO:N	8:AH:50:THR:HG1	1.97	0.63
8:AH:87:GLU:CG	8:AH:162:ARG:HB2	2.29	0.63
9:AI:1:MET:HB3	11:AL:10:LYS:NZ	2.14	0.63
9:AJ:73:VAL:HG22	9:AJ:121:ALA:C	2.23	0.63
10:AK:8:ASP:HA	10:AK:12:LYS:N	2.13	0.63
12:AM:41:ALA:HB1	12:AM:75:PRO:HB2	1.80	0.63
15:AP:22:GLY:O	15:AP:23:ILE:HD12	1.98	0.63
16:AQ:23:ARG:O	16:AQ:24:LEU:C	2.41	0.63
16:AQ:115:VAL:O	16:AQ:118:ILE:HG22	1.97	0.63
17:AR:5:GLU:HB3	17:AR:53:ASP:OD2	1.98	0.63
20:AU:44:ALA:HB1	20:AU:65:VAL:CG2	2.28	0.63
21:AV:40:ASP:HB2	21:AV:41:ARG:NH2	2.13	0.63
21:AV:142:ASN:H	21:AV:171:VAL:HG21	1.64	0.63
22:AW:20:LEU:HA	22:AW:23:LEU:HG	1.79	0.63
23:AX:7:LYS:O	23:AX:54:VAL:CB	2.32	0.63
24:A0:38:VAL:HG23	24:A0:110:PRO:O	1.99	0.63
24:A0:82:GLU:HB3	24:A0:83:ILE:HD13	1.80	0.63
24:A0:90:ARG:HB2	24:A0:94:TYR:CZ	2.34	0.63
26:A2:67:LYS:HE3	26:A2:94:LYS:HD2	1.78	0.63
27:A3:37:LEU:HD13	27:A3:69:PHE:CB	2.08	0.63
31:A7:25:LYS:HE2	31:A7:25:LYS:N	2.12	0.63
34:BA:70:G:H2'	34:BA:73:C:H6	1.63	0.63
34:BA:611:A:N6	34:BA:629:G:N1	2.47	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:710:G:C2'	34:BA:711:G:H5'	2.28	0.63
34:BA:781:A:H2'	34:BA:782:A:C4'	2.29	0.63
34:BA:920:U:C2	34:BA:921:U:C6	2.86	0.63
34:BA:936:C:H2'	34:BA:937:A:H5'	1.80	0.63
34:BA:975:A:C8	34:BA:1365:G:N2	2.65	0.63
34:BA:1101:A:O2'	34:BA:1102:A:P	2.55	0.63
34:BA:1127:G:H22	34:BA:1144:G:H22	1.46	0.63
34:BA:1322:C:C4'	34:BA:1323:G:OP1	2.47	0.63
34:BA:1451:A:H5''	34:BA:1452:C:H5	1.63	0.63
35:BB:1:G:C2	35:BB:73:A:N3	2.66	0.63
35:BB:75:C:C5	35:BB:76:A:H2	2.15	0.63
35:BC:47:U:H5	35:BC:49:C:H5''	1.59	0.63
35:BC:58:A:H2'	35:BC:61:C:C5	2.32	0.63
37:BE:17:PHE:HD1	37:BE:18:GLY:N	1.96	0.63
37:BE:61:LEU:HD11	37:BE:67:THR:O	1.99	0.63
37:BE:115:LEU:CB	37:BE:149:LEU:HD13	2.29	0.63
37:BE:171:ALA:O	37:BE:174:VAL:N	2.31	0.63
38:BF:134:ILE:O	38:BF:138:VAL:HG23	1.99	0.63
38:BF:157:ILE:HB	38:BF:164:ARG:CD	2.29	0.63
39:BG:56:VAL:HG12	39:BG:57:ARG:H	1.64	0.63
40:BH:80:ILE:HD12	40:BH:80:ILE:N	2.13	0.63
41:BI:3:ARG:C	41:BI:4:TYR:HD2	2.06	0.63
41:BI:11:ASN:HD21	41:BI:13:ASN:ND2	1.97	0.63
42:BJ:77:SER:C	42:BJ:156:TRP:CZ3	2.76	0.63
42:BJ:95:ARG:O	42:BJ:96:GLN:C	2.41	0.63
43:BK:4:ASP:CG	43:BK:6:ILE:HG22	2.22	0.63
44:BL:28:VAL:HG21	44:BL:33:PHE:HA	1.80	0.63
46:BN:50:TYR:CG	46:BN:54:ARG:HB3	2.33	0.63
46:BN:95:ILE:HA	46:BN:98:LEU:CG	2.28	0.63
47:BO:59:ARG:HD3	47:BO:65:GLU:HG3	1.80	0.63
48:BP:120:LYS:CG	48:BP:121:LYS:H	2.11	0.63
51:BS:57:ARG:O	51:BS:60:LEU:HB2	1.97	0.63
52:BT:38:ARG:CG	52:BT:39:SER:N	2.62	0.63
55:BW:32:ALA:O	55:BW:33:ILE:C	2.38	0.63
2:AA:107:C:H4'	2:AA:293:U:C2	2.33	0.63
2:AA:248:G:N3	2:AA:2431:U:H4'	2.14	0.63
2:AA:252:G:N3	2:AA:253:C:C6	2.67	0.63
2:AA:280:C:O2	2:AA:360:G:N1	2.25	0.63
2:AA:380:U:O4	2:AA:394:A:N1	2.31	0.63
2:AA:642:G:N2	2:AA:646:A:N6	2.38	0.63
2:AA:659:C:O2'	2:AA:660:G:H5'	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:674:G:H4'	6:AF:69:HIS:HA	1.80	0.63
2:AA:695:G:H2'	2:AA:696:G:H8	1.64	0.63
2:AA:929:G:O2'	23:AX:43:ILE:HG12	1.97	0.63
2:AA:1015:G:H2'	2:AA:1016:G:H8	1.64	0.63
2:AA:1022:G:C2'	2:AA:1025:G:O6	2.40	0.63
2:AA:1044:G:H4'	2:AA:1047:G:H4'	1.81	0.63
2:AA:1062:G:N2	11:AL:92:PRO:CG	2.59	0.63
2:AA:1092:C:N4	2:AA:1093:G:C4	2.67	0.63
2:AA:142(A):A:C5	2:AA:1143:A:C8	2.87	0.63
2:AA:1244:G:O2'	2:AA:1245:G:H5'	1.97	0.63
2:AA:1246:A:N1	2:AA:1247:A:N3	2.47	0.63
2:AA:1332:G:C5	2:AA:1609:A:N6	2.67	0.63
2:AA:1423:G:H2'	2:AA:1423:G:N3	2.13	0.63
2:AA:1569:A:C2	2:AA:1570:A:C5	2.86	0.63
2:AA:1625:C:C2	2:AA:1626:G:H1'	2.34	0.63
2:AA:1782:C:O2	2:AA:2609:U:O4'	2.16	0.63
2:AA:1916:A:H8	2:AA:1916:A:O5'	1.82	0.63
2:AA:2042:A:H62	12:AM:90:LYS:HZ3	1.46	0.63
2:AA:2046:G:H5'	29:A5:19:ARG:HA	1.80	0.63
2:AA:2047:U:O2'	2:AA:2048:G:C5'	2.46	0.63
2:AA:2404:C:C5	2:AA:2414:G:N2	2.67	0.63
2:AA:2481:G:O2'	2:AA:2482:G:H5'	1.97	0.63
2:AA:2498:C:H2'	2:AA:2498:C:O2	1.97	0.63
2:AA:2588:G:H2'	2:AA:2589:A:H5'	1.80	0.63
2:AA:2635:C:O2	2:AA:2636:U:O4'	2.17	0.63
2:AA:2685:G:H1	2:AA:2724:C:H42	1.46	0.63
2:AA:2705:A:H8	2:AA:2705:A:O5'	1.81	0.63
2:AA:2711:A:OP2	2:AA:2712:U:O3'	2.16	0.63
2:AA:2792:G:H1	2:AA:2804:C:N4	1.96	0.63
2:AA:2893:G:O3'	2:AA:2894:G:H4'	1.99	0.63
3:AC:127:LEU:HD23	3:AC:130:ILE:HD13	1.79	0.63
4:AD:74:PRO:CA	4:AD:116:MET:HE2	2.27	0.63
4:AD:81:GLU:HG3	4:AD:92:LEU:HD13	1.79	0.63
4:AD:95:TYR:O	4:AD:96:ALA:C	2.41	0.63
5:AE:46:ALA:O	5:AE:305:LYS:HD3	1.97	0.63
5:AE:235:ILE:CG2	5:AE:236:GLY:N	2.61	0.63
6:AF:115:LEU:HB2	6:AF:246:ARG:NH1	2.11	0.63
8:AH:53:ARG:HH12	8:AH:56:ASP:HA	1.61	0.63
8:AH:70:LEU:O	8:AH:73:ASN:HB2	1.99	0.63
8:AH:124:VAL:O	8:AH:124:VAL:HG22	1.98	0.63
9:AJ:63:LEU:CD2	9:AJ:118:LEU:HD13	2.29	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:59:ALA:O	10:AK:62:LEU:HB2	1.98	0.63
12:AM:52:GLN:O	12:AM:56:LYS:HG2	1.99	0.63
13:AN:1:MET:C	13:AN:2:ILE:HD12	2.22	0.63
15:AP:26:LYS:O	15:AP:28:ILE:CG1	2.46	0.63
15:AP:32:LYS:NZ	21:AV:172:LEU:HD11	2.14	0.63
17:AR:5:GLU:OE2	17:AR:56:ARG:NH2	2.32	0.63
18:AS:29:LEU:C	18:AS:33:ARG:HG3	2.24	0.63
18:AS:36:LEU:CD1	18:AS:47:VAL:HG12	2.29	0.63
20:AU:27:LEU:HD22	20:AU:31:LEU:HD12	1.79	0.63
20:AU:30:ASP:O	20:AU:33:GLU:CD	2.40	0.63
20:AU:66:ASP:OD2	20:AU:72:ILE:HA	1.98	0.63
21:AV:56:VAL:HG12	21:AV:57:GLU:HG2	1.79	0.63
21:AV:103:ARG:N	21:AV:103:ARG:CD	2.62	0.63
27:A3:41:ARG:O	27:A3:42:GLY:O	2.17	0.63
28:A4:11:PRO:O	28:A4:12:CYS:CB	2.47	0.63
29:A5:42:SER:O	29:A5:43:HIS:HB2	1.98	0.63
32:A8:13:ARG:O	32:A8:14:ILE:CB	2.43	0.63
34:BA:60:A:N1	34:BA:107:G:O2'	2.27	0.63
34:BA:137:C:C2	34:BA:227:G:N2	2.67	0.63
34:BA:267:C:N4	34:BA:268:C:H41	1.95	0.63
34:BA:707:C:H2'	34:BA:708:C:O5'	1.98	0.63
34:BA:872:A:C5	34:BA:874:G:C8	2.86	0.63
34:BA:1087:G:C4	34:BA:1088:G:N7	2.67	0.63
34:BA:1120:G:H1	34:BA:1153:C:H42	1.44	0.63
34:BA:1209:C:O2'	34:BA:1210:C:H5'	1.98	0.63
34:BA:1347:G:O2'	34:BA:1348:U:OP2	2.16	0.63
34:BA:1373:G:H5'	42:BJ:36:LYS:HB2	1.80	0.63
34:BA:1450:U:H1'	34:BA:1454:G:N2	2.14	0.63
35:BB:6:U:C2	35:BB:68:U:O2	2.52	0.63
35:BB:34:G:O2'	35:BB:35:A:C5'	2.46	0.63
35:BC:17:U:O5'	35:BC:19:G:OP2	2.17	0.63
36:B1:59:A:H3'	36:B1:59:A:H8	1.62	0.63
37:BE:68:ILE:HB	37:BE:70:PHE:HE1	1.61	0.63
37:BE:196:LEU:HD12	37:BE:197:VAL:N	2.14	0.63
38:BF:12:LEU:HD13	38:BF:17:ASP:CA	2.29	0.63
40:BH:109:ILE:CG1	40:BH:135:THR:HG21	2.27	0.63
41:BI:1:MET:SD	41:BI:68:PRO:CG	2.86	0.63
41:BI:84:ASN:O	41:BI:86:ARG:HG2	1.99	0.63
42:BJ:12:LEU:HD23	42:BJ:24:THR:CG2	2.28	0.63
42:BJ:29:LYS:NZ	42:BJ:102:ARG:HE	1.95	0.63
42:BJ:69:VAL:HG21	42:BJ:134:ALA:CB	2.27	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:74:GLU:HB3	42:BJ:91:VAL:CG2	2.27	0.63
42:BJ:136:LYS:O	42:BJ:140:ASP:OD1	2.17	0.63
43:BK:46:LYS:HG3	43:BK:64:LYS:CB	2.29	0.63
44:BL:12:GLU:H	44:BL:104:ARG:NH2	1.96	0.63
47:BO:35:GLY:O	47:BO:82:VAL:HG13	1.98	0.63
49:BQ:6:LEU:C	49:BQ:8:GLU:N	2.57	0.63
50:BR:83:GLU:C	50:BR:83:GLU:OE1	2.42	0.63
1:AB:52:A:H2'	1:AB:53:A:O4'	1.98	0.63
1:AB:80:U:O2	1:AB:81:G:N7	2.31	0.63
2:AA:28:A:C2	2:AA:29:U:O4'	2.51	0.63
2:AA:65:C:C2	2:AA:66:C:H5	2.17	0.63
2:AA:78:A:H2'	2:AA:79:G:C8	2.33	0.63
2:AA:246:C:N4	2:AA:247:G:C6	2.67	0.63
2:AA:295:G:H1	2:AA:344:G:N3	1.36	0.63
2:AA:476:G:C4'	2:AA:505:A:H2	2.11	0.63
2:AA:495:G:H21	18:AS:61:ASN:HD21	1.47	0.63
2:AA:768:G:O2'	2:AA:769:G:H5'	1.99	0.63
2:AA:823:G:C2'	2:AA:824:A:H8	2.02	0.63
2:AA:864:G:O2'	2:AA:865:C:H1'	1.99	0.63
2:AA:957:A:N6	2:AA:959:A:N3	2.46	0.63
2:AA:976:C:N3	2:AA:987:G:N2	2.44	0.63
2:AA:1309:G:C5'	31:A7:7:PRO:O	2.46	0.63
2:AA:1325:G:OP2	2:AA:1616:A:N7	2.32	0.63
2:AA:1534:G:H21	2:AA:1535:U:H5'	1.63	0.63
2:AA:1640:C:H2'	2:AA:1641:A:C8	2.34	0.63
2:AA:1670:C:H2'	2:AA:1671:U:H5'	1.78	0.63
2:AA:1684:C:H2'	2:AA:1685:C:C6	2.34	0.63
2:AA:1697:G:O6	2:AA:1698:A:C6	2.52	0.63
2:AA:1824:G:O2'	2:AA:1825:A:H5'	1.99	0.63
2:AA:1941:C:O2	2:AA:1942:C:H5'	1.98	0.63
2:AA:1948:G:O4'	34:BA:1483:A:H1'	1.98	0.63
2:AA:2046:G:H2'	2:AA:2047:U:C5	2.34	0.63
2:AA:2048:G:C2'	2:AA:2049:G:O5'	2.45	0.63
2:AA:2067:G:H8	2:AA:2067:G:O5'	1.82	0.63
2:AA:2116:G:OP2	3:AC:126:LYS:CA	2.47	0.63
2:AA:2116:G:P	3:AC:126:LYS:HB2	2.39	0.63
2:AA:2137:C:H5	2:AA:2154:G:H21	1.44	0.63
2:AA:2208:U:H3	2:AA:2216:G:H1	1.46	0.63
2:AA:2261:C:OP2	27:A3:14:ARG:CG	2.47	0.63
2:AA:2334:G:O2'	2:AA:2335:A:OP1	2.14	0.63
2:AA:2639:A:C4	2:AA:2778:A:C2	2.87	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:28:LEU:O	3:AC:31:GLU:HB2	1.98	0.63
4:AD:71:ASP:CG	4:AD:118:GLY:CA	2.72	0.63
4:AD:92:LEU:HD21	4:AD:102:TYR:CZ	2.33	0.63
5:AE:199:ALA:CA	5:AE:314:ALA:HA	2.28	0.63
5:AE:299:SER:C	5:AE:301:PRO:HD3	2.23	0.63
6:AF:81:PRO:O	6:AF:82:GLN:CD	2.42	0.63
6:AF:93:LYS:HB3	6:AF:95:GLU:C	2.24	0.63
7:AG:22:VAL:HG23	7:AG:131:THR:O	1.99	0.63
7:AG:96:SER:O	7:AG:98:PHE:N	2.28	0.63
7:AG:107:GLY:O	7:AG:129:ASP:N	2.31	0.63
8:AH:74:MET:O	8:AH:78:VAL:HG23	1.97	0.63
9:AJ:77:VAL:HG13	9:AJ:102:ILE:CG1	2.29	0.63
12:AM:14:ALA:O	12:AM:15:ARG:HB2	1.99	0.63
13:AN:1:MET:HB3	13:AN:67:ARG:HD2	1.80	0.63
13:AN:61:VAL:HG21	13:AN:111:PHE:CZ	2.33	0.63
14:AO:72:ASN:O	14:AO:75:LEU:CB	2.46	0.63
15:AP:133:GLU:HG3	15:AP:134:PHE:N	2.14	0.63
18:AS:59:VAL:HA	18:AS:63:ASP:HA	1.79	0.63
19:AT:23:LYS:HG2	19:AT:67:ARG:HA	1.79	0.63
21:AV:37:LYS:O	21:AV:41:ARG:NE	2.32	0.63
21:AV:103:ARG:HB2	21:AV:141:MET:CE	2.28	0.63
23:AX:51:ALA:O	23:AX:52:HIS:C	2.42	0.63
24:A0:66:VAL:O	24:A0:70:LEU:HG	1.97	0.63
25:A1:11:ARG:CG	25:A1:12:ARG:N	2.62	0.63
25:A1:31:GLN:O	25:A1:35:ALA:N	2.27	0.63
25:A1:34:ASN:O	25:A1:38:THR:CG2	2.46	0.63
26:A2:36:LYS:HA	26:A2:59:GLU:O	1.98	0.63
26:A2:42:GLY:O	26:A2:48:GLY:HA2	1.99	0.63
26:A2:69:ILE:HG23	26:A2:89:ASN:O	1.98	0.63
34:BA:399:G:C4	34:BA:400:C:C5	2.87	0.63
34:BA:591:U:P	43:BK:30:ARG:CZ	2.87	0.63
34:BA:601:C:H2'	34:BA:602:A:C8	2.33	0.63
34:BA:643:C:H5'	43:BK:31:PHE:CD1	2.34	0.63
34:BA:687:A:O2'	34:BA:688:G:OP2	2.15	0.63
34:BA:707:C:N3	34:BA:708:C:C5	2.67	0.63
34:BA:757:U:O3'	34:BA:821:G:N2	2.32	0.63
34:BA:877:C:O2'	43:BK:3:THR:CB	2.42	0.63
34:BA:881:G:O2'	34:BA:882:C:H5'	1.98	0.63
34:BA:960:U:N3	34:BA:1225:A:C5	2.66	0.63
34:BA:992:U:O2'	34:BA:993:G:OP2	2.15	0.63
34:BA:1018:C:C4	34:BA:1019:C:C5	2.87	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1086:U:C4	34:BA:1099:G:O6	2.52	0.63
34:BA:1095:U:C5'	34:BA:1109:C:O2	2.46	0.63
34:BA:1148:U:O2'	34:BA:1149:C:H5'	1.99	0.63
34:BA:1405:G:H2'	34:BA:1406:U:H6	1.64	0.63
34:BA:1490:C:H2'	34:BA:1491:G:O5'	1.99	0.63
35:BB:34:G:O5'	35:BB:34:G:C8	2.48	0.63
35:BB:53:G:C5	35:BB:54:U:C4	2.87	0.63
35:BC:17:U:H5''	35:BC:18:G:O3'	1.98	0.63
36:B1:38:C:H4'	36:B1:39:A:C2	2.33	0.63
37:BE:82:ARG:HB2	37:BE:94:ASN:ND2	2.13	0.63
37:BE:149:LEU:O	37:BE:150:SER:C	2.42	0.63
38:BF:73:PRO:CG	38:BF:105:GLU:OE2	2.47	0.63
38:BF:159:GLY:HA2	38:BF:193:TYR:CE1	2.33	0.63
41:BI:36:ARG:HB3	41:BI:36:ARG:CZ	2.29	0.63
42:BJ:54:THR:C	42:BJ:56:GLN:N	2.55	0.63
42:BJ:155:ARG:O	42:BJ:156:TRP:CB	2.47	0.63
43:BK:11:THR:O	43:BK:13:ILE:N	2.32	0.63
43:BK:40:ALA:O	43:BK:42:GLU:N	2.31	0.63
43:BK:100:ILE:HG21	43:BK:125:ARG:NH2	2.14	0.63
51:BS:49:LEU:HD11	51:BS:51:VAL:HG23	1.80	0.63
51:BS:51:VAL:HG11	51:BS:74:LEU:HD23	1.81	0.63
55:BW:73:HIS:N	55:BW:76:ALA:HB3	2.13	0.63
56:BX:9:ARG:NH1	56:BX:21:TYR:CG	2.66	0.63
2:AA:109:G:N2	2:AA:110:G:C1'	2.58	0.63
2:AA:188:G:O2'	2:AA:189:G:H5'	1.98	0.63
2:AA:270:A:C6	2:AA:370:G:N9	2.67	0.63
2:AA:271(C):U:O4	2:AA:421:U:C6	2.52	0.63
2:AA:558:G:OP1	12:AM:91:LYS:HB3	1.98	0.63
2:AA:603:A:C2	2:AA:625:G:C5	2.87	0.63
2:AA:705:A:N6	2:AA:727:A:N9	2.47	0.63
2:AA:944:G:H5''	2:AA:945:A:H5''	1.81	0.63
2:AA:996:A:C2	2:AA:997:G:C8	2.87	0.63
2:AA:1041:C:N4	2:AA:1114:G:N1	2.45	0.63
2:AA:1060:U:P	11:AL:74:PRO:HA	2.38	0.63
2:AA:1063:G:N7	2:AA:1070:A:P	2.71	0.63
2:AA:1081:U:P	11:AL:126:LYS:HD3	2.38	0.63
2:AA:1323:U:H2'	2:AA:1324:G:C5'	2.26	0.63
2:AA:1343:G:C2	2:AA:1405:U:N3	2.67	0.63
2:AA:1465:G:C2	2:AA:1466:G:C4	2.87	0.63
2:AA:1525:G:H2'	2:AA:1526:G:C8	2.34	0.63
2:AA:1670:C:H3'	2:AA:1671:U:C6	2.33	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1672:C:C5	2:AA:1673:U:C6	2.86	0.63
2:AA:1697:G:C3'	2:AA:1698:A:C5'	2.75	0.63
2:AA:1706:U:O2'	2:AA:1707:G:OP1	2.17	0.63
2:AA:1773:A:H2'	2:AA:1774:C:O4'	1.98	0.63
2:AA:1803:A:H8	2:AA:1803:A:O5'	1.82	0.63
2:AA:1914:C:P	2:AA:1916:A:N6	2.71	0.63
2:AA:1923:U:H2'	2:AA:1924:C:H6	1.61	0.63
2:AA:1951:U:O2	2:AA:1951:U:C2'	2.46	0.63
2:AA:2064:C:H2'	2:AA:2064:C:O2	1.98	0.63
2:AA:2121:G:C2'	2:AA:2122:U:H6	1.98	0.63
2:AA:2136:C:N3	2:AA:2155:G:N3	2.47	0.63
2:AA:2137:C:H3'	2:AA:2138:C:H5	1.59	0.63
2:AA:2269:A:C8	2:AA:2270:G:C8	2.87	0.63
2:AA:2270:G:O6	2:AA:2271:G:N2	2.32	0.63
2:AA:2335:A:O2'	2:AA:2336:A:C8	2.48	0.63
2:AA:2422:A:N3	2:AA:2424:C:C5	2.67	0.63
2:AA:2630:G:H5'	2:AA:2631:G:OP2	1.98	0.63
2:AA:2861:G:H2'	2:AA:2862:G:O5'	1.99	0.63
3:AC:112:ALA:CB	3:AC:156:ILE:HD13	2.29	0.63
4:AD:92:LEU:HD12	4:AD:92:LEU:N	2.14	0.63
4:AD:140:VAL:HG11	4:AD:189:ALA:CB	2.29	0.63
6:AF:114:ALA:O	6:AF:117:ALA:HB3	1.99	0.63
6:AF:115:LEU:HA	6:AF:118:THR:HG23	1.80	0.63
7:AG:14:ARG:H	7:AG:14:ARG:HD2	1.64	0.63
8:AH:17:THR:O	8:AH:23:VAL:HA	1.98	0.63
9:AI:57:THR:HB	9:AJ:107:SER:HG	1.62	0.63
11:AL:79:LEU:HD11	11:AL:137:ILE:HG21	1.81	0.63
11:AL:89:SER:O	11:AL:90:SER:OG	2.16	0.63
12:AM:44:ALA:HB3	12:AM:132:LEU:HD22	1.81	0.63
12:AM:135:ILE:O	12:AM:139:LEU:HD13	1.99	0.63
14:AO:126:SER:OG	14:AO:129:ALA:CB	2.46	0.63
15:AP:63:ALA:CA	15:AP:70:ARG:HH22	2.10	0.63
16:AQ:124:ASP:O	16:AQ:125:ALA:C	2.42	0.63
18:AS:36:LEU:HD13	18:AS:48:ALA:HA	1.80	0.63
19:AT:17:ASP:OD2	19:AT:25:GLN:HG3	1.99	0.63
20:AU:61:GLU:O	20:AU:74:VAL:HG13	1.99	0.63
21:AV:19:ILE:CG2	21:AV:39:PHE:HE1	2.11	0.63
25:A1:69:ALA:HB3	25:A1:76:TYR:HH	1.64	0.63
26:A2:20:ILE:CG2	26:A2:67:LYS:HD2	2.29	0.63
26:A2:39:PHE:O	26:A2:40:VAL:HG22	1.99	0.63
28:A4:61:LYS:O	28:A4:65:ASP:CG	2.41	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:A8:30:ARG:HB3	32:A8:44:LYS:HZ2	1.62	0.63
34:BA:70:G:C4	34:BA:73:C:C5	2.86	0.63
34:BA:429:U:H5'	34:BA:430:A:OP1	1.98	0.63
34:BA:727:G:H3'	34:BA:727:G:C8	2.34	0.63
34:BA:765:G:N2	34:BA:816:A:C2	2.67	0.63
34:BA:815:A:C1'	34:BA:1529:G:O6	2.47	0.63
34:BA:950:U:O2	34:BA:1231:G:N2	2.26	0.63
34:BA:956:U:O2	34:BA:957:U:C6	2.52	0.63
34:BA:1124:G:H1	34:BA:1149:C:N4	1.92	0.63
34:BA:1262:C:H2'	34:BA:1263:C:C6	2.34	0.63
34:BA:1502:A:C6	34:BA:1504:G:C2	2.87	0.63
34:BA:1521:G:C4	34:BA:1522:U:C5	2.87	0.63
34:BA:1533:C:HO2'	34:BA:1535:C:H5	1.47	0.63
35:BB:21:A:C8	35:BB:21:A:H3'	2.34	0.63
35:BB:57:G:C2'	35:BB:58:A:C5'	2.74	0.63
37:BE:17:PHE:HB2	37:BE:42:ILE:HG22	1.81	0.63
37:BE:72:GLY:HA2	37:BE:165:VAL:CG2	2.29	0.63
37:BE:161:ALA:HA	37:BE:183:PRO:HB2	1.81	0.63
37:BE:215:LEU:HD13	37:BE:215:LEU:O	1.99	0.63
38:BF:28:GLN:N	38:BF:30:ARG:HH12	1.97	0.63
39:BG:42:GLN:HG2	39:BG:43:HIS:CE1	2.33	0.63
39:BG:56:VAL:HG12	39:BG:57:ARG:HD2	1.81	0.63
39:BG:58:LEU:HD21	39:BG:62:GLN:HG2	1.81	0.63
39:BG:120:LEU:HD21	39:BG:125:HIS:O	1.99	0.63
40:BH:109:ILE:CG2	40:BH:110:LEU:HD23	2.29	0.63
40:BH:151:LEU:CD2	43:BK:67:PRO:HD3	2.28	0.63
41:BI:82:ARG:O	41:BI:83:ASP:C	2.41	0.63
44:BL:78:LYS:HA	44:BL:81:ILE:HD12	1.81	0.63
50:BR:16:ALA:CB	50:BR:21:ASP:HB3	2.29	0.63
50:BR:70:LEU:CD1	50:BR:78:TYR:HB2	2.29	0.63
51:BS:4:ILE:HG13	51:BS:66:PRO:CB	2.29	0.63
52:BT:41:LYS:O	52:BT:42:TYR:CD1	2.52	0.63
54:BV:63:THR:O	54:BV:64:GLU:C	2.41	0.63
1:AB:44:G:H8	1:AB:44:G:O5'	1.82	0.62
1:AB:44:G:O2'	1:AB:47:C:N4	2.31	0.62
1:AB:44:G:H21	1:AB:48:A:H1'	1.59	0.62
1:AB:53:A:C6	1:AB:54:G:N7	2.67	0.62
2:AA:68:G:C2'	2:AA:69:C:H6	1.94	0.62
2:AA:177:G:C2'	2:AA:178:G:OP1	2.47	0.62
2:AA:190:A:N6	2:AA:207:A:C8	2.67	0.62
2:AA:482:A:N7	2:AA:506:G:N2	2.46	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:618:G:OP1	6:AF:108:GLN:HG3	1.99	0.62
2:AA:685:A:C1'	2:AA:688:U:O4	2.46	0.62
2:AA:754:C:H2'	2:AA:755:C:O5'	1.99	0.62
2:AA:775:G:C2'	2:AA:794:G:C8	2.82	0.62
2:AA:819:A:OP2	2:AA:1187:G:N2	2.31	0.62
2:AA:839:U:H2'	2:AA:840:C:H6	1.62	0.62
2:AA:952:G:N2	2:AA:2267:A:H62	1.97	0.62
2:AA:961:C:N4	2:AA:2031:A:N3	2.47	0.62
2:AA:974(A):C:H1'	2:AA:989:G:N2	2.12	0.62
2:AA:1019:U:C2'	2:AA:1020:A:H5'	2.24	0.62
2:AA:1025:G:N3	2:AA:1025:G:H2'	2.13	0.62
2:AA:1071:G:H2'	2:AA:1072:C:H5'	1.81	0.62
2:AA:1141:U:H5'	2:AA:1141:U:H6	1.64	0.62
2:AA:1223:C:N3	2:AA:1227:A:N1	2.47	0.62
2:AA:1289:C:O2'	2:AA:1330:C:H4'	1.98	0.62
2:AA:1324:G:C1'	2:AA:1616:A:H62	2.12	0.62
2:AA:1364:G:OP1	2:AA:1809:A:N6	2.32	0.62
2:AA:1387:C:H42	2:AA:1400:G:H1	1.45	0.62
2:AA:1399:C:OP1	19:AT:67:ARG:CZ	2.46	0.62
2:AA:1439:A:N1	2:AA:1553:A:C8	2.67	0.62
2:AA:1693:U:H5''	2:AA:1694:C:OP2	1.99	0.62
2:AA:1780:A:O5'	2:AA:1782:C:OP1	2.17	0.62
2:AA:1967:C:H2'	2:AA:1968:G:C5'	2.28	0.62
2:AA:2078:C:C2	2:AA:2079:U:C6	2.87	0.62
2:AA:2096:U:O2'	2:AA:2097:C:H5'	1.99	0.62
2:AA:2210:G:C5	4:AD:148:GLY:HA3	2.34	0.62
2:AA:2320:A:C2	2:AA:2333:A:C4	2.87	0.62
2:AA:2436:G:C5	2:AA:2437:U:C5	2.87	0.62
2:AA:2495:G:O2'	15:AP:101:MET:SD	2.57	0.62
2:AA:2564:A:C6	2:AA:2565:A:C6	2.86	0.62
2:AA:2579:C:N4	2:AA:2580:U:C4	2.67	0.62
2:AA:2639:A:C6	2:AA:2640:G:H1'	2.33	0.62
2:AA:2730:C:H2'	2:AA:2731:G:C8	2.32	0.62
2:AA:2898:U:H2'	2:AA:2898:U:O2	1.99	0.62
8:AH:40:MET:CA	8:AH:54:PRO:HG3	2.28	0.62
8:AH:97:LYS:O	8:AH:98:GLN:HG3	1.98	0.62
10:AK:121:ILE:HD12	10:AK:121:ILE:N	2.13	0.62
11:AL:96:ILE:HG23	11:AL:138:GLU:CD	2.24	0.62
13:AN:103:ALA:C	13:AN:105:GLU:N	2.49	0.62
14:AO:94:ARG:HD3	14:AO:120:LEU:CD2	2.26	0.62
15:AP:49:VAL:CG2	15:AP:120:HIS:HA	2.28	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:68:ALA:O	15:AP:69:ASN:C	2.42	0.62
15:AP:104:PRO:O	15:AP:105:PHE:O	2.17	0.62
16:AQ:68:GLU:O	16:AQ:69:TYR:O	2.17	0.62
18:AS:49:LYS:HD3	18:AS:49:LYS:C	2.23	0.62
21:AV:51:LEU:HD21	21:AV:64:ALA:C	2.24	0.62
24:A0:56:LYS:O	24:A0:58:GLY:N	2.31	0.62
26:A2:90:PHE:O	26:A2:91:THR:HG23	1.97	0.62
29:A5:33:CYS:HB3	29:A5:34:PRO:CD	2.27	0.62
34:BA:193:C:C2'	34:BA:194:C:H6	2.10	0.62
34:BA:271:C:O2'	34:BA:272:C:H5'	1.99	0.62
34:BA:603:U:H2'	34:BA:604:G:C8	2.34	0.62
34:BA:761:G:C4'	52:BT:103:GLY:N	2.60	0.62
34:BA:778:G:H2'	34:BA:779:C:C6	2.30	0.62
34:BA:839:U:OP2	34:BA:840:C:N4	2.32	0.62
34:BA:1255:G:N2	34:BA:1276:G:H21	1.97	0.62
34:BA:1464:G:H2'	34:BA:1465:C:C5	2.33	0.62
34:BA:1512:U:H2'	34:BA:1513:A:C8	2.33	0.62
35:BB:37:G:O5'	35:BB:37:G:N9	2.32	0.62
35:BB:58:A:N3	35:BB:61:C:C6	2.67	0.62
35:BC:21:A:N6	35:BC:46:G:N2	2.46	0.62
38:BF:13:GLY:C	38:BF:14:ILE:HG12	2.24	0.62
38:BF:112:SER:OG	38:BF:115:LEU:HD12	1.99	0.62
38:BF:189:ALA:CB	38:BF:196:LEU:HG	2.28	0.62
39:BG:79:PHE:O	39:BG:83:SER:OG	2.17	0.62
39:BG:102:ASP:CG	39:BG:136:PRO:HB3	2.23	0.62
39:BG:105:VAL:HG11	39:BG:117:ALA:HA	1.80	0.62
40:BH:43:LEU:CD2	40:BH:44:GLY:N	2.61	0.62
40:BH:78:HIS:CB	43:BK:107:LEU:HD21	2.21	0.62
40:BH:104:ALA:CA	40:BH:107:ARG:NH1	2.47	0.62
44:BL:116:LYS:HD3	44:BL:116:LYS:N	2.14	0.62
46:BN:44:SER:H	46:BN:47:VAL:CB	2.12	0.62
47:BO:86:ARG:HG3	47:BO:86:ARG:HH11	1.64	0.62
47:BO:117:ARG:HH21	47:BO:123:LYS:HA	1.64	0.62
48:BP:73:GLU:O	48:BP:74:VAL:C	2.42	0.62
52:BT:95:TYR:O	52:BT:97:SER:O	2.17	0.62
55:BW:57:ARG:O	55:BW:59:ALA:N	2.32	0.62
1:AB:18:G:H3'	7:AG:149:ARG:CZ	2.27	0.62
1:AB:84:C:O2'	1:AB:85:G:O5'	2.16	0.62
2:AA:260:G:C2	2:AA:261:G:C8	2.88	0.62
2:AA:290:G:P	2:AA:351:G:O6	2.57	0.62
2:AA:299:A:C2	2:AA:322:A:N7	2.66	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:380:U:C2'	2:AA:381:G:H5'	2.29	0.62
2:AA:585:G:N1	2:AA:1251:C:C5	2.67	0.62
2:AA:596:G:C6	2:AA:597:U:N3	2.67	0.62
2:AA:657:U:H2'	2:AA:658:C:C6	2.34	0.62
2:AA:700:G:H1	2:AA:732:C:N4	1.97	0.62
2:AA:713:G:H2'	2:AA:713:G:N3	2.15	0.62
2:AA:823:G:C2	2:AA:824:A:C5	2.87	0.62
2:AA:928:G:C2	2:AA:929:G:C6	2.86	0.62
2:AA:957:A:N7	2:AA:959:A:C4	2.68	0.62
2:AA:1055:G:C4	9:AI:28:LYS:HD3	2.33	0.62
2:AA:1162:G:C5'	26:A2:23:GLU:O	2.47	0.62
2:AA:1202:C:N4	2:AA:1243:G:N1	2.40	0.62
2:AA:1249:U:O2'	2:AA:1250:G:H5'	1.99	0.62
2:AA:1418:G:H2'	2:AA:1419:A:OP1	1.98	0.62
2:AA:1460:A:N1	2:AA:1732:A:C2	2.67	0.62
2:AA:1517:G:H2'	2:AA:1518:C:O4'	1.98	0.62
2:AA:1527:G:N3	2:AA:1545:A:N7	2.46	0.62
2:AA:1529:A:N6	2:AA:1542:G:N2	2.46	0.62
2:AA:1559:G:C2	2:AA:1560:G:OP1	2.52	0.62
2:AA:1658:C:OP1	5:AE:230:GLY:HA2	1.99	0.62
2:AA:1792:G:H8	2:AA:1792:G:O5'	1.82	0.62
2:AA:1799:G:N1	4:AD:177:SER:OG	2.32	0.62
2:AA:2011:U:O2'	2:AA:2012:G:H5'	2.00	0.62
2:AA:2093:G:C4'	10:AK:29:PHE:HE1	2.07	0.62
2:AA:2112:G:HO2'	2:AA:2116:G:H8	1.45	0.62
2:AA:2226:C:C4	2:AA:2227:A:N3	2.66	0.62
2:AA:2512:C:H4'	5:AE:235:ILE:CD1	2.28	0.62
2:AA:2533:A:H2'	2:AA:2534:A:C8	2.34	0.62
2:AA:2593:U:O2	2:AA:2600:A:N1	2.32	0.62
3:AC:193:ILE:HG23	3:AC:226:PRO:HB2	1.79	0.62
4:AD:130:PRO:HB3	4:AD:186:LYS:C	2.24	0.62
4:AD:158:GLY:O	4:AD:159:THR:C	2.43	0.62
4:AD:216:ALA:O	4:AD:223:ASN:N	2.31	0.62
5:AE:222:ARG:CD	5:AE:232:ARG:HA	2.30	0.62
7:AG:49:PRO:HB2	7:AG:72:LYS:H	1.64	0.62
8:AH:93:TYR:CD1	8:AH:106:VAL:HA	2.34	0.62
10:AK:8:ASP:N	10:AK:12:LYS:HA	2.14	0.62
10:AK:141:LEU:C	10:AK:141:LEU:CD1	2.70	0.62
11:AL:11:LEU:HD12	11:AL:58:ILE:CD1	2.29	0.62
11:AL:56:VAL:CG1	11:AL:58:ILE:HG12	2.28	0.62
13:AN:63:VAL:CG1	13:AN:102:VAL:CG1	2.71	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:57:ARG:N	15:AP:61:LEU:HD21	2.14	0.62
15:AP:67:ALA:CA	15:AP:70:ARG:CD	2.65	0.62
15:AP:87:LYS:HZ3	15:AP:115:SER:HA	1.63	0.62
16:AQ:92:ALA:O	16:AQ:95:ALA:N	2.32	0.62
16:AQ:104:ILE:O	16:AQ:105:GLY:C	2.42	0.62
17:AR:38:ASN:OD1	17:AR:39:ASN:N	2.32	0.62
17:AR:53:ASP:HB3	17:AR:56:ARG:CZ	2.29	0.62
18:AS:84:ARG:HB2	18:AS:96:ILE:O	1.99	0.62
18:AS:97:LYS:HB3	18:AS:99:ARG:HD3	1.82	0.62
19:AT:22:ASN:C	19:AT:68:LEU:HG	2.23	0.62
20:AU:81:LYS:HD2	20:AU:83:ASP:OD1	1.99	0.62
21:AV:138:VAL:HB	21:AV:140:LYS:HZ1	1.64	0.62
25:A1:53:LYS:O	25:A1:57:PHE:HD1	1.82	0.62
25:A1:78:THR:CB	25:A1:117:ARG:HH21	2.12	0.62
26:A2:39:PHE:HB3	26:A2:54:TYR:HB3	1.82	0.62
26:A2:66:GLY:HA2	26:A2:93:ILE:CD1	2.29	0.62
27:A3:9:SER:O	27:A3:10:SER:C	2.42	0.62
29:A5:6:VAL:O	29:A5:8:LYS:HE3	1.99	0.62
29:A5:40:LYS:HD3	29:A5:46:CYS:SG	2.38	0.62
34:BA:22:G:H1'	34:BA:914:A:N6	2.13	0.62
34:BA:292:G:N3	34:BA:309:G:C2	2.67	0.62
34:BA:314:C:H2'	34:BA:315:A:C1'	2.29	0.62
34:BA:462:G:C2	34:BA:463:A:C4	2.86	0.62
34:BA:552:U:C2'	34:BA:553:A:H5'	2.30	0.62
34:BA:565:U:H2'	34:BA:566:G:N7	2.14	0.62
34:BA:599:C:O3'	43:BK:96:GLY:HA3	1.99	0.62
34:BA:643:C:H5'	43:BK:31:PHE:CE1	2.33	0.62
34:BA:901:A:H2'	34:BA:902:G:O4'	1.99	0.62
34:BA:956:U:O2'	34:BA:957:U:C5'	2.47	0.62
34:BA:978:A:H62	34:BA:1360:A:H61	1.45	0.62
34:BA:1139:G:N1	34:BA:1143:G:N2	2.41	0.62
34:BA:1372:U:H2'	34:BA:1373:G:C8	2.34	0.62
34:BA:1512:U:H2'	34:BA:1513:A:H8	1.64	0.62
34:BA:1538:C:N4	36:B1:51:G:N1	2.31	0.62
35:BB:58:A:C2	35:BB:61:C:C6	2.87	0.62
36:B1:68:U:H5''	36:B1:69:A:OP1	1.98	0.62
37:BE:70:PHE:CD2	37:BE:163:PHE:HB3	2.34	0.62
37:BE:113:HIS:HA	37:BE:116:GLU:CD	2.25	0.62
37:BE:220:ASP:HB3	37:BE:224:GLN:HE21	1.64	0.62
38:BF:84:ILE:CG1	38:BF:101:LEU:HD13	2.29	0.62
39:BG:82:ALA:HB3	39:BG:89:THR:HG23	1.81	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:72:ARG:HH22	42:BJ:138:LYS:HZ3	1.47	0.62
44:BL:73:GLN:O	44:BL:76:ALA:HB3	1.99	0.62
48:BP:77:ASN:OD1	48:BP:78:ILE:HG13	1.99	0.62
53:BU:21:LYS:CE	53:BU:57:GLY:HA3	2.27	0.62
2:AA:138:G:C8	19:AT:42:GLU:OE1	2.47	0.62
2:AA:152:G:C8	2:AA:152:G:C3'	2.83	0.62
2:AA:197:A:O4'	2:AA:2068:U:O2	2.17	0.62
2:AA:324:A:OP2	2:AA:613:U:O4	2.17	0.62
2:AA:510:C:O5'	2:AA:512:G:N1	2.26	0.62
2:AA:575:A:C2	2:AA:576:U:C2	2.86	0.62
2:AA:673:C:N3	2:AA:808:G:N2	2.46	0.62
2:AA:783:A:C6	2:AA:785:G:C8	2.86	0.62
2:AA:783:A:OP2	4:AD:230:ASN:ND2	2.33	0.62
2:AA:857:C:H3'	2:AA:857:C:C6	2.33	0.62
2:AA:878:A:N3	2:AA:878:A:H2'	2.14	0.62
2:AA:924:C:O2'	2:AA:925:C:H5'	1.99	0.62
2:AA:973:A:C8	26:A2:80:TYR:CD2	2.87	0.62
2:AA:1029:A:C2'	2:AA:1030:G:O5'	2.47	0.62
2:AA:1055:G:N2	9:AI:29:PHE:CZ	2.66	0.62
2:AA:1171:G:C3'	2:AA:1173:G:H5''	2.23	0.62
2:AA:1226:G:H3'	2:AA:1226:G:H8	1.64	0.62
2:AA:1467:C:C4	2:AA:1468:C:H5	2.17	0.62
2:AA:1526:G:H5''	2:AA:1527:G:OP1	1.99	0.62
2:AA:1639:U:O2'	2:AA:2699:C:H4'	1.98	0.62
2:AA:1728:G:H2'	2:AA:1729:A:C2	2.34	0.62
2:AA:1818:U:O4	4:AD:66:PHE:HE1	1.80	0.62
2:AA:1825:A:N7	4:AD:225:ARG:NH2	2.47	0.62
2:AA:1913:A:C2	2:AA:1917:U:O4	2.52	0.62
2:AA:1927:A:N6	2:AA:1928:A:N1	2.47	0.62
2:AA:2057:A:H2'	2:AA:2058:A:H8	1.63	0.62
2:AA:2059:A:N1	2:AA:2503:A:C6	2.67	0.62
2:AA:2284:C:C4	2:AA:2285:C:N4	2.68	0.62
2:AA:2313:C:O2'	2:AA:2314:C:H5'	1.99	0.62
2:AA:2437:U:H5'	2:AA:2598:A:C2	2.34	0.62
2:AA:2447:G:C5	2:AA:2501:C:N3	2.66	0.62
2:AA:2457:U:C4	2:AA:2458:G:C2	2.87	0.62
2:AA:2604:U:H2'	2:AA:2605:U:O5'	1.98	0.62
2:AA:2678:C:C2	2:AA:2679:A:C8	2.87	0.62
2:AA:2776:A:N3	2:AA:2778:A:C5	2.68	0.62
2:AA:2837:G:H1	2:AA:2881:C:H42	1.48	0.62
3:AC:76:ALA:HB1	3:AC:149:ILE:HD11	1.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:216:ARG:C	5:AE:217:TRP:HD1	2.05	0.62
7:AG:152:PRO:C	7:AG:154:LYS:H	2.07	0.62
9:AI:62:VAL:HA	9:AI:101:VAL:HA	1.81	0.62
9:AI:77:VAL:HG13	9:AI:102:ILE:CG1	2.29	0.62
10:AK:88:ARG:C	10:AK:122:ARG:HG2	2.24	0.62
11:AL:79:LEU:HD21	11:AL:137:ILE:CG2	2.29	0.62
11:AL:104:GLN:HA	11:AL:107:GLU:CG	2.28	0.62
14:AO:94:ARG:HH11	14:AO:120:LEU:CA	2.12	0.62
15:AP:42:TYR:CA	21:AV:119:ASN:ND2	2.58	0.62
18:AS:71:VAL:HA	18:AS:106:ILE:O	2.00	0.62
20:AU:77:VAL:O	20:AU:89:ARG:HB2	1.99	0.62
21:AV:64:ALA:O	21:AV:65:LEU:HB2	1.96	0.62
21:AV:103:ARG:HG2	21:AV:139:THR:CG2	2.11	0.62
22:AW:5:VAL:O	22:AW:6:GLN:C	2.41	0.62
24:A0:100:LEU:C	29:A5:44:HIS:CD2	2.78	0.62
24:A0:104:ARG:HB2	24:A0:111:LEU:HD11	1.80	0.62
25:A1:9:VAL:O	25:A1:12:ARG:HB2	1.99	0.62
25:A1:13:ARG:CD	25:A1:16:LYS:NZ	2.62	0.62
25:A1:41:ASN:O	25:A1:45:TYR:HB2	1.99	0.62
25:A1:50:ARG:CA	25:A1:53:LYS:NZ	2.61	0.62
26:A2:31:ASP:O	26:A2:33:VAL:N	2.31	0.62
27:A3:24:LYS:O	27:A3:26:PHE:HE1	1.81	0.62
27:A3:42:GLY:HA2	27:A3:66:LYS:HA	1.82	0.62
28:A4:7:PRO:HG2	28:A4:56:VAL:HG11	1.80	0.62
28:A4:70:GLY:O	28:A4:71:SER:OG	2.17	0.62
30:A6:18:THR:O	30:A6:20:PHE:N	2.32	0.62
34:BA:137:C:H1'	51:BS:63:GLY:N	2.14	0.62
34:BA:151:A:N6	34:BA:152:A:C2	2.67	0.62
34:BA:300:A:H2'	34:BA:301:G:O4'	1.99	0.62
34:BA:431:A:N6	34:BA:432:A:N3	2.47	0.62
34:BA:579:G:H8	34:BA:579:G:O5'	1.83	0.62
34:BA:738:C:N3	34:BA:739:C:C5	2.68	0.62
34:BA:929:G:H5'	34:BA:1533:C:H42	1.64	0.62
34:BA:1074:G:C5	34:BA:1075:C:C5	2.87	0.62
34:BA:1143:G:H2'	34:BA:1144:G:H8	1.65	0.62
34:BA:1145:C:O2'	34:BA:1146:A:O5'	2.17	0.62
34:BA:1221:G:OP1	34:BA:1320:C:N4	2.33	0.62
34:BA:1528:U:O2	34:BA:1530:G:H5''	1.99	0.62
35:BC:30:G:H2'	35:BC:31:A:O4'	1.99	0.62
37:BE:22:LYS:HD2	37:BE:40:HIS:HE1	1.65	0.62
38:BF:117:ALA:O	38:BF:118:GLN:C	2.42	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:80:ILE:CD1	40:BH:91:LEU:HB3	2.30	0.62
40:BH:81:GLU:CD	40:BH:81:GLU:N	2.58	0.62
41:BI:80:ARG:O	41:BI:81:ILE:C	2.42	0.62
42:BJ:105:VAL:HG12	42:BJ:109:ASN:HD21	1.64	0.62
44:BL:3:GLN:CB	44:BL:20:ARG:HG2	2.30	0.62
46:BN:121:PRO:CG	46:BN:126:ARG:HG2	2.27	0.62
47:BO:26:ALA:C	47:BO:27:LEU:O	2.39	0.62
47:BO:93:LEU:HG	47:BO:96:VAL:HG21	1.81	0.62
50:BR:67:LEU:O	50:BR:70:LEU:HB3	1.99	0.62
51:BS:1:MET:O	51:BS:3:LYS:HG2	1.98	0.62
53:BU:26:LEU:HD21	53:BU:29:PHE:CD1	2.35	0.62
53:BU:44:LEU:O	53:BU:48:GLY:HA2	1.99	0.62
53:BU:67:ALA:HA	53:BU:70:ILE:CD1	2.29	0.62
1:AB:12:C:H41	27:A3:50:GLY:H	1.44	0.62
1:AB:61:G:N2	1:AB:62:C:N3	2.47	0.62
1:AB:112:G:H5'	1:AB:113:C:OP2	1.99	0.62
2:AA:119:A:O2'	2:AA:120:U:P	2.57	0.62
2:AA:126:A:O5'	31:A7:19:ARG:NE	2.32	0.62
2:AA:208:C:O5'	2:AA:208:C:H6	1.83	0.62
2:AA:291:C:C2	2:AA:349:G:N2	2.66	0.62
2:AA:598:G:O2'	2:AA:599:G:H5'	1.99	0.62
2:AA:607:U:C6	2:AA:608:A:N7	2.67	0.62
2:AA:648:G:O2'	2:AA:649:G:H5'	1.99	0.62
2:AA:729:G:N1	2:AA:1775:U:C4	2.67	0.62
2:AA:865:C:O2'	2:AA:866:A:N7	2.27	0.62
2:AA:943:U:H2'	2:AA:944:G:OP1	1.99	0.62
2:AA:988:A:H4'	2:AA:1155:A:H2	1.65	0.62
2:AA:1021:A:C2	2:AA:1122:G:O3'	2.52	0.62
2:AA:1157:G:O2'	23:AX:31:LEU:HD12	1.99	0.62
2:AA:1212:G:H2'	2:AA:1213:A:OP2	1.99	0.62
2:AA:1293:C:H2'	2:AA:1294:U:O5'	1.98	0.62
2:AA:1299:G:C5'	2:AA:1300:U:H5'	2.28	0.62
2:AA:1305:C:O2	2:AA:1623:G:N1	2.28	0.62
2:AA:1326:U:C2'	2:AA:1327:C:H5'	2.30	0.62
2:AA:1608:A:O2'	2:AA:1609:A:H5'	1.99	0.62
2:AA:2186:G:C2	2:AA:2187:G:C6	2.88	0.62
2:AA:2206:C:C2'	2:AA:2207:C:O4'	2.40	0.62
2:AA:2213:U:O2	2:AA:2213:U:H2'	1.99	0.62
2:AA:2331:G:C2	2:AA:2385:C:N4	2.68	0.62
2:AA:2376:A:N6	16:AQ:109:PRO:CG	2.62	0.62
2:AA:2472:G:H21	2:AA:2529:G:H1	1.47	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2493:U:C2'	2:AA:2494:G:O5'	2.47	0.62
2:AA:2506:U:O2'	2:AA:2507:C:H5'	1.99	0.62
2:AA:2549:G:H2'	2:AA:2550:G:O4'	1.98	0.62
2:AA:2628:C:C1'	2:AA:2781:A:N3	2.61	0.62
2:AA:2740:A:C6	2:AA:2764:A:C8	2.87	0.62
3:AC:75:LEU:HD11	3:AC:99:ILE:HG21	1.80	0.62
3:AC:211:SER:HB2	3:AC:213:TYR:OH	2.00	0.62
5:AE:258:TYR:N	5:AE:258:TYR:HD2	1.96	0.62
6:AF:37:ALA:HB1	6:AF:107:ARG:HH21	1.60	0.62
6:AF:47:GLY:HA2	6:AF:92:PRO:HG2	1.80	0.62
6:AF:138:VAL:HG12	6:AF:138:VAL:O	1.99	0.62
6:AF:151:GLN:CA	6:AF:154:VAL:HG23	2.28	0.62
9:AI:71:ILE:O	9:AI:75:LYS:HG3	1.99	0.62
10:AK:40:THR:CG2	10:AK:42:ALA:HB3	2.30	0.62
11:AL:106:GLU:CA	11:AL:125:MET:SD	2.87	0.62
12:AM:54:VAL:CA	12:AM:135:ILE:HG13	2.29	0.62
12:AM:54:VAL:CG1	12:AM:135:ILE:HD12	2.29	0.62
13:AN:64:ARG:O	13:AN:82:ASN:HA	1.99	0.62
13:AN:88:ARG:O	13:AN:89:ASP:C	2.43	0.62
13:AN:106:LEU:HB3	13:AN:111:PHE:HB2	1.80	0.62
18:AS:11:ARG:HB3	18:AS:11:ARG:NH1	2.13	0.62
19:AT:9:HIS:CB	19:AT:26:PHE:HA	2.23	0.62
20:AU:79:LEU:HG	20:AU:80:GLU:N	2.12	0.62
25:A1:5:LYS:O	25:A1:7:GLY:N	2.32	0.62
25:A1:25:TRP:O	25:A1:26:GLY:C	2.41	0.62
25:A1:30:LYS:O	25:A1:32:TYR:CD2	2.53	0.62
25:A1:64:ARG:HH12	25:A1:101:ARG:NH2	1.98	0.62
26:A2:43:GLU:O	26:A2:44:GLN:NE2	2.32	0.62
27:A3:69:PHE:O	27:A3:70:ILE:CD1	2.42	0.62
28:A4:13:LYS:O	28:A4:14:ILE:CB	2.44	0.62
30:A6:16:ALA:CB	30:A6:42:PRO:HD3	2.29	0.62
34:BA:302:G:H21	34:BA:556:C:H4'	1.64	0.62
34:BA:325:A:O2'	34:BA:326:G:H5'	2.00	0.62
34:BA:449:C:C4	34:BA:450:G:H1'	2.34	0.62
34:BA:475:G:C4	34:BA:476:G:N7	2.68	0.62
34:BA:585:G:O2'	34:BA:586:C:H5'	2.00	0.62
34:BA:722:A:C6	34:BA:724:G:C6	2.87	0.62
34:BA:727:G:N2	34:BA:731:G:C5	2.67	0.62
34:BA:965:A:H1'	34:BA:969:A:N7	2.14	0.62
34:BA:967:C:H2'	34:BA:968:A:C8	2.34	0.62
34:BA:986:A:C1'	54:BV:55:LYS:HA	2.25	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1160:G:O6	34:BA:1181:G:C6	2.52	0.62
34:BA:1253:G:N1	34:BA:1285:A:N6	2.47	0.62
34:BA:1343:G:O5'	34:BA:1343:G:H8	1.82	0.62
34:BA:1433:A:C2'	34:BA:1434:A:H5'	2.28	0.62
35:BC:9:A:C2	35:BC:45:G:N7	2.67	0.62
37:BE:15:VAL:HG21	37:BE:210:SER:N	2.15	0.62
37:BE:68:ILE:O	37:BE:90:MET:CB	2.46	0.62
37:BE:79:ASP:O	37:BE:82:ARG:HB3	1.98	0.62
37:BE:134:GLU:O	37:BE:138:LEU:HG	2.00	0.62
37:BE:218:ALA:O	37:BE:221:LEU:N	2.32	0.62
38:BF:28:GLN:HE21	38:BF:29:TYR:H	1.47	0.62
38:BF:34:LEU:HD23	38:BF:34:LEU:C	2.24	0.62
38:BF:77:ILE:HG23	38:BF:81:GLY:HA2	1.81	0.62
39:BG:32:ALA:O	39:BG:33:MET:C	2.41	0.62
39:BG:191:ARG:NH2	39:BG:196:LEU:HB2	2.14	0.62
42:BJ:25:ALA:O	42:BJ:28:ASN:HB2	2.00	0.62
42:BJ:59:LEU:O	42:BJ:63:LYS:HG2	1.99	0.62
43:BK:9:MET:C	43:BK:13:ILE:HD12	2.25	0.62
43:BK:23:SER:O	43:BK:24:THR:CB	2.48	0.62
46:BN:54:ARG:HH11	46:BN:54:ARG:CG	2.09	0.62
46:BN:92:GLU:HG3	46:BN:96:ARG:HD3	1.79	0.62
48:BP:2:ALA:O	48:BP:4:ILE:N	2.24	0.62
52:BT:59:ILE:CD1	52:BT:72:ARG:C	2.72	0.62
56:BX:12:LYS:HG3	56:BX:18:TYR:CB	2.30	0.62
2:AA:40:C:H2'	2:AA:41:C:C6	2.33	0.62
2:AA:49:A:N6	2:AA:177:G:C2	2.67	0.62
2:AA:122:G:C2	2:AA:130:C:C2	2.87	0.62
2:AA:142:G:OP1	2:AA:1596:A:C5'	2.47	0.62
2:AA:162:U:C4'	2:AA:171:G:H21	2.12	0.62
2:AA:245:G:H5'	14:AO:55:GLN:HA	1.79	0.62
2:AA:286:C:C2'	2:AA:287:C:C5'	2.67	0.62
2:AA:302:C:N3	2:AA:303:U:C4	2.67	0.62
2:AA:473:G:H2'	2:AA:474:G:H5'	1.81	0.62
2:AA:532:A:OP1	25:A1:25:TRP:CD1	2.52	0.62
2:AA:686:G:OP1	31:A7:11:LYS:HD3	1.99	0.62
2:AA:754:C:C2'	2:AA:755:C:H5'	2.30	0.62
2:AA:782:A:C1'	2:AA:783:A:H62	2.13	0.62
2:AA:881:G:H2'	2:AA:882:G:O4'	1.99	0.62
2:AA:1043:C:C2'	2:AA:1044:G:H5'	2.28	0.62
2:AA:1058:G:H5''	9:AI:1:MET:C	2.24	0.62
2:AA:1064:C:C2'	2:AA:1065:U:H6	2.11	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1083:U:C5'	9:AI:40:ALA:CB	2.76	0.62
2:AA:1222:C:N4	2:AA:1227:A:H62	1.78	0.62
2:AA:1274:A:H2	2:AA:1297:C:O2	1.80	0.62
2:AA:1314:C:O2'	2:AA:1315:C:H5'	2.00	0.62
2:AA:1326:U:O4'	2:AA:2010:G:C2	2.52	0.62
2:AA:1332:G:C8	2:AA:1609:A:N6	2.64	0.62
2:AA:1364:G:O6	28:A4:2:GLN:CD	2.43	0.62
2:AA:1464:C:H2'	2:AA:1465:G:H8	1.64	0.62
2:AA:1529:A:H3'	2:AA:1530:G:C8	2.35	0.62
2:AA:1645:G:OP2	2:AA:1645:G:H8	1.82	0.62
2:AA:1754:C:O2	2:AA:1755:A:H1'	1.99	0.62
2:AA:1799:G:N2	4:AD:153:LEU:HG	2.13	0.62
2:AA:1857:G:H2'	2:AA:1858:G:C8	2.33	0.62
2:AA:1937:A:N7	2:AA:1939:U:C2	2.68	0.62
2:AA:1981:A:H3'	2:AA:1982:C:C5'	2.28	0.62
2:AA:2027:G:C4	2:AA:2028:U:C6	2.87	0.62
2:AA:2090:G:H2'	2:AA:2091:U:C6	2.35	0.62
2:AA:2151:G:O5'	2:AA:2152:G:OP2	2.17	0.62
2:AA:2325:G:C5	2:AA:2326:C:H5	2.18	0.62
2:AA:2331:G:O2'	27:A3:70:ILE:HD12	2.00	0.62
2:AA:2510:C:N4	2:AA:2511:U:C4	2.67	0.62
2:AA:2573:C:C6	2:AA:2573:C:C3'	2.82	0.62
2:AA:2676:C:H2'	2:AA:2677:G:H8	1.65	0.62
3:AC:82:LYS:CB	3:AC:116:THR:HG21	2.17	0.62
4:AD:211:HIS:HA	4:AD:222:PRO:CG	2.29	0.62
5:AE:212:GLY:O	5:AE:213:PRO:C	2.42	0.62
6:AF:80:VAL:O	6:AF:87:ARG:NH1	2.32	0.62
7:AG:27:ILE:O	7:AG:29:HIS:N	2.31	0.62
7:AG:36:ASN:O	7:AG:39:ASP:CB	2.48	0.62
8:AH:169:ARG:NE	8:AH:169:ARG:HA	2.15	0.62
9:AJ:61:VAL:HG21	9:AJ:114:ILE:HB	1.82	0.62
10:AK:39:ALA:CA	10:AK:44:LEU:HD21	2.28	0.62
10:AK:77:VAL:HG11	10:AK:143:VAL:HG13	1.82	0.62
10:AK:89:LEU:N	10:AK:122:ARG:HG2	2.14	0.62
11:AL:92:PRO:O	11:AL:94:ARG:N	2.32	0.62
14:AO:77:ALA:CA	14:AO:81:VAL:HB	2.16	0.62
14:AO:125:PHE:O	14:AO:130:ARG:HG3	1.98	0.62
15:AP:135:ALA:O	15:AP:136:TRP:C	2.43	0.62
16:AQ:35:VAL:HG13	16:AQ:103:ASP:OD2	2.00	0.62
16:AQ:122:ALA:HB1	16:AQ:127:LEU:HD13	1.80	0.62
18:AS:37:ARG:HH22	29:A5:48:ASN:CG	2.07	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:5:ILE:HG22	19:AT:6:LYS:H	1.65	0.62
19:AT:18:MET:SD	19:AT:25:GLN:N	2.71	0.62
22:AW:26:GLU:CA	22:AW:29:ASN:HD22	1.93	0.62
26:A2:5:ILE:CG2	26:A2:38:LEU:O	2.48	0.62
26:A2:15:SER:HA	26:A2:99:GLN:CD	2.24	0.62
27:A3:28:GLY:N	27:A3:60:PHE:HB3	2.15	0.62
27:A3:46:LYS:HE2	27:A3:58:THR:OG1	1.99	0.62
30:A6:18:THR:O	30:A6:18:THR:HG23	1.99	0.62
32:A8:14:ILE:O	32:A8:14:ILE:CG2	2.47	0.62
34:BA:13:U:O2	34:BA:21:G:N2	2.23	0.62
34:BA:115:G:O2'	34:BA:116:A:OP2	2.11	0.62
34:BA:621:A:C6	34:BA:622:A:C6	2.88	0.62
34:BA:781:A:H61	34:BA:802:A:H1'	1.65	0.62
34:BA:783:C:N4	34:BA:799:G:H1	1.96	0.62
34:BA:871:U:H4'	34:BA:872:A:OP1	2.00	0.62
34:BA:944:G:C2	34:BA:1340:A:C6	2.88	0.62
34:BA:956:U:O2	34:BA:960:U:C4	2.52	0.62
34:BA:979:C:C2'	34:BA:980:C:H5'	2.29	0.62
34:BA:1157:A:C1'	34:BA:1181:G:N2	2.62	0.62
34:BA:1172:C:O2'	34:BA:1173:G:H5'	2.00	0.62
34:BA:1254:C:OP1	45:BM:45:ARG:HD2	1.99	0.62
34:BA:1302:U:OP1	48:BP:13:LYS:NZ	2.29	0.62
34:BA:1306:A:H61	34:BA:1331:G:H1'	1.65	0.62
34:BA:1326:C:C4	34:BA:1327:C:C4	2.88	0.62
34:BA:1403:C:C1'	34:BA:1500:A:N1	2.63	0.62
34:BA:1413:A:C2'	34:BA:1414:U:O5'	2.48	0.62
34:BA:1516:G:N2	34:BA:1519:A:OP2	2.32	0.62
35:BB:51:G:H2'	35:BB:52:U:O4'	2.00	0.62
37:BE:47:THR:CB	37:BE:48:MET:SD	2.84	0.62
37:BE:102:LEU:HD13	37:BE:176:GLU:OE1	1.99	0.62
37:BE:131:PRO:CG	37:BE:134:GLU:HG2	2.26	0.62
38:BF:49:SER:C	38:BF:51:GLY:N	2.55	0.62
40:BH:51:VAL:O	40:BH:55:VAL:CG2	2.38	0.62
42:BJ:76:ARG:HG3	42:BJ:89:MET:SD	2.39	0.62
43:BK:100:ILE:HB	43:BK:125:ARG:NH2	2.14	0.62
44:BL:22:GLY:C	44:BL:58:ARG:O	2.42	0.62
45:BM:77:PRO:C	45:BM:78:ASN:HD22	2.07	0.62
46:BN:54:ARG:HG3	46:BN:54:ARG:NH1	2.09	0.62
50:BR:65:ARG:HB2	50:BR:65:ARG:CZ	2.29	0.62
55:BW:72:LEU:CD2	55:BW:76:ALA:HB1	2.30	0.62
1:AB:54:G:O2'	1:AB:55:U:H5'	1.99	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:73:A:C2'	2:AA:74:A:OP2	2.47	0.62
2:AA:265:A:O2'	2:AA:266:G:O5'	2.16	0.62
2:AA:324:A:N6	2:AA:339:U:C1'	2.39	0.62
2:AA:581:C:H2'	2:AA:582:G:C8	2.35	0.62
2:AA:607:U:C4	2:AA:621:A:N1	2.66	0.62
2:AA:686:G:C5'	2:AA:687:C:OP2	2.46	0.62
2:AA:751:A:H8	18:AS:90:ARG:NH2	1.98	0.62
2:AA:909:A:C2	2:AA:912:C:H1'	2.34	0.62
2:AA:993:G:C8	2:AA:1162:G:N1	2.68	0.62
2:AA:1081:U:H2'	2:AA:1082:U:C4	2.34	0.62
2:AA:1085:A:HO2'	2:AA:1086:A:C4'	2.09	0.62
2:AA:1300:U:C2	2:AA:1626:G:C2	2.87	0.62
2:AA:1343:G:C2	2:AA:1405:U:C2	2.87	0.62
2:AA:1413:G:H1	2:AA:1589:C:N4	1.97	0.62
2:AA:1769:G:C6	2:AA:1984:G:C6	2.88	0.62
2:AA:1930:G:O2'	2:AA:1931:U:P	2.58	0.62
2:AA:1943:U:O2'	2:AA:1944:U:P	2.57	0.62
2:AA:2046:G:H2'	2:AA:2047:U:C6	2.35	0.62
2:AA:2218:G:H4'	4:AD:147:PRO:HG3	1.82	0.62
2:AA:2330:G:O2'	2:AA:2331:G:H5'	2.00	0.62
2:AA:2457:U:C2'	2:AA:2458:G:C5'	2.69	0.62
2:AA:2548:G:H2'	2:AA:2549:G:O5'	1.98	0.62
2:AA:2579:C:H5''	2:AA:2579:C:C6	2.35	0.62
2:AA:2674:G:O6	2:AA:2675:A:N6	2.32	0.62
2:AA:2700:C:H2'	2:AA:2701:C:H4'	1.79	0.62
2:AA:2742:C:OP1	33:A9:35:ARG:CD	2.48	0.62
4:AD:78:ALA:HB2	4:AD:94:ASN:ND2	2.14	0.62
4:AD:142:ASN:HB3	4:AD:190:THR:HG23	1.82	0.62
5:AE:189:MET:SD	5:AE:311:PHE:HZ	2.22	0.62
6:AF:245:GLU:H	6:AF:245:GLU:CD	2.07	0.62
7:AG:100:ASP:N	7:AG:100:ASP:OD1	2.32	0.62
10:AK:30:LEU:HA	10:AK:33:GLN:HE21	1.64	0.62
10:AK:112:LYS:HG2	10:AK:113:ARG:H	1.64	0.62
11:AL:36:MET:SD	11:AL:40:LYS:HG3	2.40	0.62
11:AL:53:ILE:O	11:AL:54:LEU:HD23	2.00	0.62
12:AM:13:ASP:N	12:AM:38:VAL:HG13	2.14	0.62
18:AS:55:ALA:HB2	18:AS:107:LEU:HD11	1.81	0.62
21:AV:14:LEU:HD23	21:AV:79:ILE:CD1	2.28	0.62
27:A3:52:GLY:O	27:A3:53:MET:HB2	1.99	0.62
28:A4:4:ASP:C	28:A4:5:LEU:HD23	2.24	0.62
34:BA:28:G:C2'	34:BA:296:U:OP1	2.47	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:112:G:H5'	34:BA:389:A:C4'	2.08	0.62
34:BA:118:U:O4	34:BA:289:G:OP2	2.17	0.62
34:BA:269:C:H2'	34:BA:270:A:H8	1.63	0.62
34:BA:321:A:C6	34:BA:322:C:N4	2.68	0.62
34:BA:448:A:C2	34:BA:449:C:C4	2.87	0.62
34:BA:669:U:O4'	50:BR:46:HIS:CE1	2.53	0.62
34:BA:749:C:H2'	34:BA:749:C:O2	1.98	0.62
34:BA:815:A:N1	34:BA:1529:G:H2'	2.15	0.62
34:BA:1053:G:H2'	34:BA:1199:U:H5	1.65	0.62
34:BA:1058:G:OP1	38:BF:199:LYS:HE3	1.99	0.62
34:BA:1206:G:H2'	34:BA:1207:G:O4'	1.99	0.62
34:BA:1289:A:OP2	34:BA:1289:A:H3'	1.99	0.62
34:BA:1358:U:H5''	49:BQ:34:TYR:HA	1.81	0.62
36:B1:28:U:H2'	36:B1:29:G:C8	2.35	0.62
37:BE:100:GLY:C	37:BE:108:ILE:HD11	2.23	0.62
39:BG:172:PRO:HG3	39:BG:193:ASP:CB	2.30	0.62
42:BJ:12:LEU:O	42:BJ:14:PRO:HD3	2.00	0.62
43:BK:49:GLU:O	43:BK:59:LEU:HD23	1.99	0.62
43:BK:84:ARG:HD3	43:BK:136:GLU:CD	2.25	0.62
44:BL:37:PHE:HA	44:BL:40:LEU:HD12	1.81	0.62
45:BM:51:ARG:HG2	49:BQ:45:ARG:NH1	2.15	0.62
47:BO:27:LEU:HD22	47:BO:62:SER:HG	1.65	0.62
47:BO:27:LEU:HD13	47:BO:64:TYR:CE1	2.35	0.62
47:BO:62:SER:HB2	47:BO:64:TYR:HB2	1.81	0.62
53:BU:21:LYS:CA	53:BU:55:ARG:HH12	2.05	0.62
55:BW:26:ASN:ND2	55:BW:26:ASN:H	1.95	0.62
1:AB:73:A:H2'	1:AB:74:U:C6	2.34	0.62
2:AA:69:C:C6	2:AA:69:C:OP2	2.52	0.62
2:AA:216:A:C2	2:AA:217:G:C5	2.88	0.62
2:AA:323:G:OP2	2:AA:340:A:C2	2.51	0.62
2:AA:557:U:H2'	2:AA:558:G:C8	2.35	0.62
2:AA:576:U:O2'	2:AA:577:G:H5'	2.00	0.62
2:AA:611:C:O2	2:AA:611:C:H2'	1.98	0.62
2:AA:734:A:C2	2:AA:735:A:C1'	2.83	0.62
2:AA:959:A:C4	2:AA:960:A:N7	2.68	0.62
2:AA:1087:G:N2	2:AA:1103:A:C3'	2.63	0.62
2:AA:1155:A:H8	2:AA:1155:A:H5'	1.64	0.62
2:AA:1275:A:N6	24:A0:19:ALA:HB2	2.11	0.62
2:AA:1309:G:OP1	31:A7:9:ASN:HB2	2.00	0.62
2:AA:1363:C:H5'	28:A4:55:ARG:HH12	1.63	0.62
2:AA:1591:G:C5	2:AA:1592:C:C4	2.87	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1672:C:O2'	2:AA:1673:U:H5'	2.00	0.62
2:AA:1775:U:OP2	2:AA:1775:U:H3'	1.98	0.62
2:AA:1846:G:N2	2:AA:1895:C:N1	2.47	0.62
2:AA:1973:G:H2'	2:AA:1974:C:H6	1.62	0.62
2:AA:2009:G:C6	2:AA:2010:G:N7	2.68	0.62
2:AA:2010:G:O2'	18:AS:42:ARG:NH2	2.33	0.62
2:AA:2078:C:H5'	2:AA:2434:A:H5'	1.82	0.62
2:AA:2119:A:N6	2:AA:2147:G:C5'	2.63	0.62
2:AA:2460:U:C5	2:AA:2461:C:C5	2.88	0.62
2:AA:2572:A:N7	5:AE:241:TRP:CD1	2.68	0.62
2:AA:2698:U:C2	2:AA:2699:C:C5	2.88	0.62
2:AA:2714:G:H8	2:AA:2714:G:H5''	1.63	0.62
2:AA:2803:C:O2	2:AA:2803:C:C2'	2.31	0.62
2:AA:2824:C:N4	2:AA:2825:C:O2	2.33	0.62
3:AC:180:PHE:HD2	3:AC:184:LYS:HB3	1.65	0.62
5:AE:182:GLU:O	5:AE:183:ASP:C	2.41	0.62
6:AF:31:ILE:O	6:AF:34:ALA:HB3	2.00	0.62
6:AF:32:GLY:O	6:AF:36:ARG:HG2	2.00	0.62
7:AG:49:PRO:HB3	7:AG:72:LYS:C	2.21	0.62
10:AK:19:LYS:HD2	10:AK:20:ASN:H	1.65	0.62
10:AK:88:ARG:NH2	10:AK:121:ILE:HG23	2.14	0.62
10:AK:94:THR:C	10:AK:96:LYS:N	2.56	0.62
13:AN:111:PHE:C	13:AN:115:ILE:HG13	2.23	0.62
14:AO:52:LYS:CD	14:AO:53:ARG:NH1	2.62	0.62
14:AO:94:ARG:HD3	14:AO:120:LEU:CB	2.30	0.62
16:AQ:17:ARG:NH2	16:AQ:106:LEU:CD1	2.62	0.62
18:AS:18:ARG:HG3	18:AS:76:VAL:HG12	1.82	0.62
19:AT:18:MET:HE1	19:AT:25:GLN:CB	2.30	0.62
21:AV:19:ILE:N	21:AV:36:ARG:CG	2.63	0.62
21:AV:128:ARG:O	21:AV:129:ARG:HG2	2.00	0.62
24:A0:53:HIS:CA	24:A0:56:LYS:HG3	2.28	0.62
24:A0:63:ARG:HH12	24:A0:80:PHE:CB	2.12	0.62
24:A0:103:ARG:HA	24:A0:109:ALA:O	1.99	0.62
25:A1:17:VAL:CG1	25:A1:39:LEU:HD12	2.29	0.62
26:A2:15:SER:HB2	26:A2:99:GLN:NE2	2.14	0.62
27:A3:27:GLY:CA	27:A3:60:PHE:CD2	2.83	0.62
29:A5:11:THR:HB	29:A5:16:ARG:CG	2.29	0.62
30:A6:5:GLY:C	30:A6:7:ARG:N	2.55	0.62
30:A6:36:GLU:OE1	30:A6:53:LYS:HG2	1.99	0.62
32:A8:26:LYS:CE	32:A8:45:GLY:H	2.11	0.62
32:A8:26:LYS:HB2	32:A8:44:LYS:HA	1.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:A8:31:HIS:C	32:A8:32:GLN:HG3	2.24	0.62
34:BA:130:A:H5'	52:BT:63:ARG:NH2	2.14	0.62
34:BA:237:C:P	52:BT:40:LYS:HZ2	2.22	0.62
34:BA:419:C:O2'	34:BA:420:U:H5'	2.00	0.62
34:BA:462:G:C8	34:BA:462:G:OP2	2.53	0.62
34:BA:539:A:OP2	47:BO:115:LYS:HE2	1.99	0.62
34:BA:545:C:HO2'	34:BA:546:G:H5'	1.61	0.62
34:BA:735:C:O5'	34:BA:735:C:H6	1.80	0.62
34:BA:748:C:O2'	34:BA:749:C:C5'	2.47	0.62
34:BA:779:C:H2'	34:BA:780:A:O5'	1.99	0.62
34:BA:924:C:O2'	34:BA:925:G:H5'	1.99	0.62
34:BA:937:A:H1'	34:BA:1379:G:N2	2.15	0.62
34:BA:982:U:H1'	34:BA:983:A:C6	2.34	0.62
34:BA:1147:C:N3	34:BA:1148:U:C5	2.68	0.62
34:BA:1166:G:H1'	34:BA:1169:A:H61	1.63	0.62
34:BA:1174:G:O2'	34:BA:1175:G:H5'	2.00	0.62
34:BA:1485:U:O2	34:BA:1486:G:N7	2.33	0.62
35:BB:18:G:O2'	35:BB:19:G:O5'	2.17	0.62
37:BE:219:VAL:HA	37:BE:222:ILE:CG2	2.30	0.62
38:BF:88:ARG:NE	38:BF:101:LEU:N	2.32	0.62
42:BJ:136:LYS:HD2	42:BJ:137:LYS:N	2.14	0.62
46:BN:32:ILE:HD11	46:BN:72:ALA:HB2	1.81	0.62
47:BO:60:LEU:CD2	47:BO:64:TYR:HB2	2.30	0.62
48:BP:77:ASN:CA	48:BP:80:ARG:HD3	2.30	0.62
49:BQ:12:ARG:C	49:BQ:14:PRO:HD3	2.24	0.62
55:BW:63:ILE:CD1	55:BW:80:ARG:CB	2.73	0.62
1:AB:9:G:OP1	16:AQ:23:ARG:NH1	2.31	0.62
2:AA:199:A:C5	2:AA:2434:A:N1	2.68	0.62
2:AA:248:G:N2	2:AA:2431:U:H5''	2.15	0.62
2:AA:270(R):G:N2	2:AA:270(S):G:C2	2.67	0.62
2:AA:272:G:C2'	2:AA:273:G:O4'	2.48	0.62
2:AA:529:A:C2	2:AA:2022:U:H5'	2.34	0.62
2:AA:534:U:H4'	25:A1:46:GLU:HG2	1.82	0.62
2:AA:574:C:O2'	2:AA:575:A:P	2.57	0.62
2:AA:592:G:H5'	2:AA:593:G:OP2	1.99	0.62
2:AA:637:A:OP2	14:AO:109:LEU:HD13	1.99	0.62
2:AA:675:A:N7	2:AA:804:A:C6	2.67	0.62
2:AA:679:C:O2	2:AA:679:C:C2'	2.34	0.62
2:AA:684:G:C4	2:AA:775:G:O6	2.53	0.62
2:AA:740:U:O4	2:AA:758:C:H1'	1.99	0.62
2:AA:839:U:H2'	2:AA:840:C:C6	2.34	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:979:G:N2	2:AA:985:C:N4	2.48	0.62
2:AA:1026:U:C6	2:AA:1026:U:C5'	2.75	0.62
2:AA:1284:A:C6	2:AA:1285:G:C2	2.88	0.62
2:AA:1376:C:H2'	2:AA:1377:G:H8	1.62	0.62
2:AA:1463:C:C2'	2:AA:1464:C:O5'	2.47	0.62
2:AA:1628:G:C2	2:AA:1629:U:C4	2.88	0.62
2:AA:1750:G:H2'	2:AA:1751:C:H6	1.65	0.62
2:AA:1826:G:C2	2:AA:1827:C:C6	2.87	0.62
2:AA:1906:G:N9	2:AA:1929:G:C8	2.67	0.62
2:AA:1906:G:C8	2:AA:1929:G:C8	2.88	0.62
2:AA:1957:C:C2'	2:AA:1985:G:HO2'	2.11	0.62
2:AA:2059:A:C2	2:AA:2503:A:N7	2.67	0.62
2:AA:2078:C:N3	2:AA:2079:U:C5	2.68	0.62
2:AA:2273:A:H2'	2:AA:2274:A:H5'	1.81	0.62
2:AA:2620:C:OP1	5:AE:248:SER:O	2.17	0.62
2:AA:2625:G:H3'	2:AA:2626:C:C5	2.35	0.62
2:AA:2653:U:C4	2:AA:2654:A:C6	2.87	0.62
2:AA:2733:A:C8	2:AA:2734:A:C8	2.87	0.62
2:AA:2885:C:C4	2:AA:2886:G:C8	2.88	0.62
3:AC:131:LEU:CB	3:AC:136:LEU:HB2	2.29	0.62
5:AE:198:TYR:O	5:AE:314:ALA:HB1	1.99	0.62
5:AE:249:THR:O	5:AE:250:VAL:C	2.42	0.62
6:AF:80:VAL:HG13	6:AF:81:PRO:N	2.15	0.62
6:AF:196:THR:HA	6:AF:236:THR:HG23	1.80	0.62
7:AG:11:HIS:CD2	7:AG:15:GLU:CD	2.78	0.62
9:AI:57:THR:HG21	9:AJ:110:GLU:CD	2.25	0.62
9:AI:103:LYS:HB2	9:AI:114:ILE:HD13	1.82	0.62
9:AJ:111:ALA:O	9:AJ:115:LYS:HG3	1.98	0.62
10:AK:5:PHE:N	10:AK:5:PHE:HD2	1.93	0.62
10:AK:26:ALA:HB1	10:AK:30:LEU:HD12	1.81	0.62
12:AM:27:ALA:O	12:AM:30:ALA:N	2.32	0.62
15:AP:152:SER:CB	15:AP:153:PRO:HD2	2.29	0.62
17:AR:15:PRO:C	17:AR:17:THR:H	2.07	0.62
20:AU:27:LEU:HD22	20:AU:31:LEU:HD13	1.82	0.62
21:AV:115:ILE:O	21:AV:169:VAL:HG13	2.00	0.62
21:AV:137:ASP:C	21:AV:139:THR:H	2.08	0.62
24:A0:25:ALA:HA	24:A0:48:VAL:HG22	1.81	0.62
24:A0:30:THR:HB	24:A0:31:HIS:ND1	2.14	0.62
24:A0:75:LEU:HA	24:A0:78:LYS:HB3	1.81	0.62
24:A0:96:ARG:HG2	24:A0:115:GLU:HG2	1.82	0.62
25:A1:69:ALA:HB1	25:A1:79:PHE:CZ	2.34	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:A4:60:ASN:O	28:A4:63:PHE:HB2	1.99	0.62
34:BA:192:U:H5'	55:BW:102:GLY:HA2	1.81	0.62
34:BA:246:A:C2'	34:BA:247:G:OP2	2.48	0.62
34:BA:363:A:C5'	47:BO:105:TYR:OH	2.48	0.62
34:BA:451:A:H1'	34:BA:452:A:C4	2.35	0.62
34:BA:540:G:H21	39:BG:42:GLN:NE2	1.97	0.62
34:BA:573:A:C2	34:BA:574:A:C6	2.88	0.62
34:BA:783:C:H2'	34:BA:784:C:C5'	2.27	0.62
34:BA:909:A:H2'	34:BA:910:C:O5'	1.99	0.62
34:BA:1143:G:H8	34:BA:1143:G:O5'	1.83	0.62
34:BA:1239:A:C2'	34:BA:1298:C:H42	2.13	0.62
34:BA:1341:U:H6	34:BA:1341:U:O5'	1.82	0.62
34:BA:1442:G:N2	34:BA:1446:A:N9	2.48	0.62
34:BA:1479:C:C2'	34:BA:1480:G:C5'	2.72	0.62
34:BA:1539:C:H2'	34:BA:1539:C:O2	1.99	0.62
38:BF:8:ILE:HG12	38:BF:12:LEU:HD21	1.82	0.62
38:BF:28:GLN:NE2	38:BF:29:TYR:N	2.48	0.62
39:BG:30:LYS:C	39:BG:32:ALA:H	2.06	0.62
40:BH:131:ILE:HG22	40:BH:132:ALA:N	2.15	0.62
41:BI:87:ARG:HG2	41:BI:87:ARG:HH11	1.64	0.62
43:BK:49:GLU:HG2	43:BK:62:TYR:OH	2.00	0.62
45:BM:13:HIS:O	45:BM:13:HIS:CG	2.52	0.62
46:BN:43:SER:HA	46:BN:47:VAL:HG11	1.82	0.62
46:BN:62:GLN:O	46:BN:63:LEU:C	2.42	0.62
46:BN:83:ILE:HD12	46:BN:83:ILE:N	2.15	0.62
47:BO:28:LYS:HD2	47:BO:33:ARG:NH2	2.13	0.62
50:BR:3:ILE:HG23	50:BR:38:ARG:CZ	2.29	0.62
50:BR:7:GLU:O	50:BR:11:VAL:HG23	2.00	0.62
55:BW:45:GLN:H	55:BW:91:LEU:HD13	1.61	0.62
55:BW:57:ARG:O	55:BW:58:LYS:C	2.42	0.62
2:AA:19:C:H5'	2:AA:553:U:OP1	2.00	0.62
2:AA:116:C:C2	2:AA:117:G:C8	2.88	0.62
2:AA:290:G:C2'	2:AA:291:C:O5'	2.47	0.62
2:AA:447:A:N6	2:AA:454:A:N7	2.47	0.62
2:AA:532:A:OP2	2:AA:2021:C:C5	2.52	0.62
2:AA:627:A:N3	2:AA:637:A:N3	2.48	0.62
2:AA:684:G:OP1	31:A7:16:HIS:NE2	2.32	0.62
2:AA:715:G:O2'	2:AA:716:A:H5'	2.00	0.62
2:AA:734:A:H2'	2:AA:735:A:C8	2.35	0.62
2:AA:806:C:N1	2:AA:807:U:H5	1.98	0.62
2:AA:911:A:N1	15:AP:16:ARG:HA	2.15	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:940:G:N1	2:AA:941:A:C8	2.68	0.62
2:AA:978:G:C5	2:AA:979:G:C6	2.87	0.62
2:AA:1155:A:C2	2:AA:1157:G:C1'	2.83	0.62
2:AA:1178:C:N3	2:AA:1179:C:N4	2.48	0.62
2:AA:1222:C:N3	2:AA:1223:C:C5	2.67	0.62
2:AA:1275:A:H2	24:A0:16:HIS:HB3	1.61	0.62
2:AA:1301:A:N7	2:AA:1303:G:C8	2.68	0.62
2:AA:1539:G:H2'	2:AA:1540:G:N7	2.14	0.62
2:AA:1773:A:H2'	2:AA:1774:C:H5'	1.82	0.62
2:AA:1778:U:C2	2:AA:1785:A:N6	2.67	0.62
2:AA:1814:G:H3'	2:AA:1815:A:C8	2.31	0.62
2:AA:1858:G:O6	2:AA:1884:A:C2	2.53	0.62
2:AA:1954:G:O2'	2:AA:1955:U:O5'	2.15	0.62
2:AA:2230:G:H2'	2:AA:2231:C:C6	2.31	0.62
2:AA:2246:G:N3	2:AA:2247:A:C8	2.68	0.62
2:AA:2320:A:N1	16:AQ:13:ARG:HG2	2.15	0.62
2:AA:2355:C:O3'	27:A3:21:LEU:CD1	2.45	0.62
2:AA:2400:G:C2	2:AA:2417:C:N3	2.68	0.62
2:AA:2581:G:N1	2:AA:2610:C:C2'	2.60	0.62
2:AA:2616:C:C2'	2:AA:2617:C:C6	2.70	0.62
2:AA:2645:G:O2'	2:AA:2732:G:O3'	2.18	0.62
2:AA:2712:U:H2'	2:AA:712(A):A:C5'	2.25	0.62
2:AA:2748:A:C6	2:AA:2757:A:N7	2.68	0.62
2:AA:2758:A:P	2:AA:2758:A:H3'	2.40	0.62
2:AA:2816:C:C2'	2:AA:2817:G:H5'	2.30	0.62
5:AE:207:GLY:HA2	5:AE:257:GLY:CA	2.29	0.62
5:AE:216:ARG:HD2	5:AE:253:GLN:HA	1.82	0.62
5:AE:269:ILE:CD1	5:AE:297:LYS:HG2	2.30	0.62
6:AF:63:SER:C	6:AF:65:ARG:H	2.07	0.62
8:AH:29:LYS:CE	8:AH:80:LYS:HA	2.30	0.62
8:AH:37:HIS:HB2	8:AH:40:MET:SD	2.40	0.62
12:AM:108:PRO:C	12:AM:109:TYR:CD1	2.78	0.62
13:AN:77:ILE:C	13:AN:77:ILE:CD1	2.73	0.62
15:AP:15:THR:CB	15:AP:20:ILE:CG2	2.69	0.62
15:AP:59:ASN:N	15:AP:59:ASN:HD22	1.97	0.62
17:AR:10:GLY:HA3	17:AR:52:THR:CB	2.27	0.62
18:AS:85:VAL:HG23	18:AS:85:VAL:O	1.99	0.62
19:AT:3:ASP:C	19:AT:4:VAL:HG22	2.25	0.62
21:AV:123:VAL:HA	21:AV:161:ALA:H	1.64	0.62
25:A1:44:THR:HG22	25:A1:48:ARG:NE	2.15	0.62
26:A2:50:ASP:CB	26:A2:53:LYS:HG3	2.30	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:A4:6:HIS:HB2	28:A4:7:PRO:HD2	1.80	0.62
28:A4:16:TYR:HE1	28:A4:37:SER:OG	1.82	0.62
29:A5:10:LYS:CE	29:A5:16:ARG:HH22	2.00	0.62
30:A6:48:VAL:O	30:A6:50:PHE:CE1	2.53	0.62
34:BA:106:C:H2'	34:BA:107:G:O5'	1.99	0.62
34:BA:118:U:O4	34:BA:289:G:O5'	2.17	0.62
34:BA:258:G:C4	34:BA:259:G:N7	2.67	0.62
34:BA:301:G:H21	34:BA:302:G:H1'	1.65	0.62
34:BA:779:C:C2'	34:BA:780:A:O5'	2.48	0.62
34:BA:939:G:OP1	42:BJ:99:LEU:HD21	2.00	0.62
34:BA:1109:C:H2'	34:BA:1110:A:O4'	1.99	0.62
34:BA:1519:A:C2'	34:BA:1520:G:H5'	2.30	0.62
35:BB:66:A:C2'	35:BB:67:A:C8	2.83	0.62
35:BC:18:G:C2'	35:BC:19:G:O5'	2.48	0.62
36:B1:23:U:O4	36:B1:31:G:O6	2.17	0.62
37:BE:141:GLU:O	37:BE:145:LEU:HD23	1.98	0.62
37:BE:169:LYS:HZ2	37:BE:170:GLU:HA	1.63	0.62
38:BF:110:ASN:ND2	38:BF:144:SER:OG	2.32	0.62
39:BG:145:GLU:HG3	39:BG:184:LYS:CE	2.23	0.62
41:BI:11:ASN:HD21	41:BI:13:ASN:CB	2.13	0.62
42:BJ:15:ASP:OD1	42:BJ:17:VAL:C	2.43	0.62
42:BJ:71:PRO:HD3	42:BJ:103:TRP:CZ3	2.35	0.62
43:BK:4:ASP:HB3	43:BK:6:ILE:CG2	2.30	0.62
43:BK:18:ARG:NH1	43:BK:18:ARG:N	2.47	0.62
43:BK:26:VAL:HG13	43:BK:27:PRO:N	2.15	0.62
43:BK:27:PRO:O	43:BK:32:LYS:NZ	2.31	0.62
44:BL:85:LEU:CD1	44:BL:89:ASN:HD22	2.13	0.62
45:BM:4:ILE:HG12	45:BM:100:THR:CG2	2.29	0.62
49:BQ:6:LEU:HD23	49:BQ:8:GLU:OE2	2.00	0.62
50:BR:16:ALA:HB2	50:BR:21:ASP:HB3	1.82	0.62
50:BR:29:VAL:HG21	50:BR:81:LEU:HD11	1.81	0.62
56:BX:12:LYS:HZ2	56:BX:19:GLY:N	1.97	0.62
56:BX:20:LYS:HG2	56:BX:21:TYR:N	2.15	0.62
1:AB:6:C:N3	1:AB:114:G:O6	2.32	0.62
1:AB:89:G:C2	1:AB:89(A):A:N6	2.68	0.62
2:AA:58:G:O2'	2:AA:71:A:N6	2.33	0.62
2:AA:111:A:H2'	2:AA:112:U:H5''	1.82	0.62
2:AA:184:C:HO2'	2:AA:217:G:H21	1.47	0.62
2:AA:262:A:H4'	2:AA:609(A):G:OP1	2.00	0.62
2:AA:318:C:C6	2:AA:318:C:OP2	2.52	0.62
2:AA:378:C:O2'	2:AA:379:G:H5'	1.99	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:510:C:H3'	2:AA:512:G:N2	2.13	0.62
2:AA:617:G:OP2	6:AF:42:ARG:NH1	2.32	0.62
2:AA:713:G:N2	2:AA:714:U:C1'	2.63	0.62
2:AA:976:C:C4'	2:AA:1156:A:N6	2.62	0.62
2:AA:1011:G:O2'	2:AA:1013:C:C5'	2.47	0.62
2:AA:1078:U:H5''	2:AA:1079:C:OP1	2.00	0.62
2:AA:1195:G:C2'	2:AA:1226:G:N2	2.63	0.62
2:AA:1301:A:HO2'	2:AA:1302:A:H8	1.48	0.62
2:AA:1394:U:H4'	2:AA:1603:A:H5'	1.82	0.62
2:AA:1397:U:O2'	2:AA:1398:C:OP1	2.15	0.62
2:AA:1476:C:H5	2:AA:1477:A:N3	1.97	0.62
2:AA:1818:U:O5'	4:AD:155:ARG:CG	2.40	0.62
2:AA:1950:G:C5	2:AA:1951:U:C5	2.88	0.62
2:AA:1957:C:C4	2:AA:1958:C:N4	2.68	0.62
2:AA:1987:G:H2'	2:AA:1988:C:H6	1.65	0.62
2:AA:2043:C:O2	2:AA:2044:C:C6	2.52	0.62
2:AA:2181:G:C2	2:AA:2182:G:O4'	2.53	0.62
2:AA:2238:G:H5''	2:AA:2239:G:N7	2.14	0.62
2:AA:2247:A:H2'	2:AA:2248:C:C6	2.33	0.62
2:AA:2284:C:N3	2:AA:2285:C:C4	2.67	0.62
2:AA:2424:C:C5'	2:AA:2425:A:H5'	2.30	0.62
2:AA:2513:G:C5	2:AA:2514:U:C4	2.87	0.62
2:AA:2515:C:C4	2:AA:2570:G:C6	2.88	0.62
2:AA:2792:G:C2	2:AA:2804:C:C4	2.88	0.62
3:AC:68:LEU:HB2	3:AC:157:LYS:O	2.00	0.62
3:AC:110:PHE:CE1	3:AC:136:LEU:HB3	2.35	0.62
4:AD:204:PHE:N	4:AD:204:PHE:CD1	2.66	0.62
5:AE:77:PRO:HB3	5:AE:188:ALA:N	2.14	0.62
5:AE:318:ASN:C	5:AE:320:GLN:H	2.07	0.62
6:AF:59:GLU:O	6:AF:61:PHE:CE2	2.53	0.62
6:AF:62:GLY:O	6:AF:63:SER:OG	2.16	0.62
6:AF:84:VAL:HG23	6:AF:85:LYS:NZ	2.14	0.62
6:AF:93:LYS:HD3	6:AF:95:GLU:O	1.99	0.62
8:AH:48:VAL:O	8:AH:49:ILE:HG23	2.00	0.62
9:AJ:63:LEU:CD1	9:AJ:102:ILE:HD12	2.27	0.62
10:AK:59:ALA:HA	10:AK:62:LEU:CD1	2.30	0.62
11:AL:45:GLU:OE1	11:AL:70:ILE:HD12	2.00	0.62
14:AO:68:GLU:O	14:AO:71:GLU:HG2	2.00	0.62
15:AP:42:TYR:O	15:AP:125:TRP:HH2	1.82	0.62
16:AQ:48:VAL:HA	16:AQ:55:ASP:OD1	1.99	0.62
20:AU:27:LEU:CD1	20:AU:31:LEU:HB2	2.30	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:80:GLU:CG	20:AU:86:GLU:HG2	2.29	0.62
21:AV:15:ASP:O	21:AV:16:GLU:CB	2.48	0.62
21:AV:103:ARG:HH12	21:AV:139:THR:H	1.44	0.62
21:AV:113:VAL:O	21:AV:171:VAL:HA	1.99	0.62
21:AV:147:ILE:HG13	21:AV:168:VAL:HG11	1.81	0.62
22:AW:45:ARG:HH21	22:AW:49:LEU:CG	2.12	0.62
26:A2:15:SER:HA	26:A2:99:GLN:NE2	2.15	0.62
27:A3:25:LYS:HZ1	27:A3:57:HIS:CE1	2.18	0.62
30:A6:16:ALA:C	30:A6:48:VAL:CG1	2.73	0.62
32:A8:56:ALA:O	32:A8:57:ARG:C	2.43	0.62
33:A9:9:LYS:CE	33:A9:16:VAL:HG23	2.27	0.62
34:BA:22:G:H4'	34:BA:885:G:C8	2.35	0.62
34:BA:296:U:H2'	34:BA:297:G:H8	1.65	0.62
34:BA:597:G:H8	34:BA:597:G:O5'	1.82	0.62
34:BA:665:A:N3	34:BA:732:C:C2	2.67	0.62
34:BA:841:U:H2'	34:BA:848:C:OP1	2.00	0.62
34:BA:1062:U:H2'	34:BA:1063:C:H6	1.60	0.62
34:BA:1104:G:H4'	37:BE:111:ARG:NH1	2.15	0.62
34:BA:1125:U:O4	45:BM:5:ARG:NH1	2.33	0.62
34:BA:1225:A:C4'	54:BV:78:ARG:HD3	2.29	0.62
34:BA:1227:A:O2'	48:BP:115:LYS:CB	2.48	0.62
34:BA:1234:C:C4'	34:BA:1364:U:O2'	2.48	0.62
34:BA:1381:U:H2'	34:BA:1382:C:O5'	2.00	0.62
34:BA:1394:A:N6	34:BA:1501:C:H5'	2.15	0.62
34:BA:1504:G:H3'	34:BA:1504:G:H8	1.65	0.62
35:BB:16:U:O2'	35:BB:17:U:OP2	2.12	0.62
35:BC:9:A:H5''	35:BC:10:G:OP2	2.00	0.62
37:BE:193:ASP:CG	37:BE:196:LEU:HD21	2.24	0.62
38:BF:191:THR:O	38:BF:193:TYR:N	2.33	0.62
39:BG:92:VAL:O	39:BG:96:LEU:HD12	2.00	0.62
41:BI:63:TYR:O	41:BI:65:VAL:HG22	2.00	0.62
45:BM:9:ARG:O	45:BM:94:VAL:HG13	1.99	0.62
45:BM:56:HIS:HB3	45:BM:59:SER:OG	2.00	0.62
47:BO:92:ASP:O	47:BO:92:ASP:CG	2.42	0.62
50:BR:74:ASP:C	50:BR:76:GLU:N	2.56	0.62
54:BV:41:VAL:HB	54:BV:42:PRO:CD	2.30	0.62
1:AB:10:C:O5'	1:AB:10:C:C6	2.51	0.61
1:AB:74:U:H2'	1:AB:75:G:H8	1.61	0.61
2:AA:119:A:H4'	2:AA:120:U:C5'	2.30	0.61
2:AA:176:G:H21	2:AA:177:G:C1'	2.12	0.61
2:AA:247:G:H21	32:A8:8:LYS:HZ2	1.45	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:354:G:C2	2:AA:355:G:N7	2.68	0.61
2:AA:385:C:O2'	2:AA:388:G:N2	2.31	0.61
2:AA:433:C:H2'	2:AA:434:U:C6	2.35	0.61
2:AA:445:C:H2'	25:A1:3:ARG:NH2	2.14	0.61
2:AA:452:G:H3'	2:AA:453:C:C5'	2.29	0.61
2:AA:452:G:OP1	6:AF:52:ALA:CB	2.48	0.61
2:AA:592:G:N3	2:AA:592:G:H2'	2.12	0.61
2:AA:617:G:O2'	2:AA:618:G:O4'	2.11	0.61
2:AA:674:G:H4'	6:AF:69:HIS:C	2.25	0.61
2:AA:678:C:N4	2:AA:799:G:N1	2.14	0.61
2:AA:681:G:C2	2:AA:682:G:C4	2.88	0.61
2:AA:722:A:N3	2:AA:723:G:C8	2.68	0.61
2:AA:729:G:N3	2:AA:729:G:C2'	2.63	0.61
2:AA:830:G:O2'	2:AA:831:G:P	2.58	0.61
2:AA:865:C:H42	2:AA:909:A:H62	1.46	0.61
2:AA:974(A):C:H6	2:AA:1186:G:C2	2.18	0.61
2:AA:997:G:O3'	25:A1:92:ARG:CZ	2.47	0.61
2:AA:1025:G:C8	2:AA:1134:G:H1'	2.35	0.61
2:AA:1165:U:C2'	2:AA:1166:C:C6	2.83	0.61
2:AA:1392:A:H2'	2:AA:1393:A:C4	2.35	0.61
2:AA:1609:A:N7	2:AA:1616:A:N3	2.48	0.61
2:AA:1691:C:C2'	2:AA:1692:U:C5'	2.74	0.61
2:AA:1725:G:N2	2:AA:1726:G:C8	2.68	0.61
2:AA:1790:C:OP2	4:AD:224:VAL:HG13	1.99	0.61
2:AA:1803:A:C8	2:AA:1804:C:C5	2.88	0.61
2:AA:1845:G:C2'	2:AA:1846:G:H5'	2.30	0.61
2:AA:1908:C:O2'	2:AA:1909:C:O5'	2.17	0.61
2:AA:1942:C:OP2	2:AA:1943:U:H3'	2.01	0.61
2:AA:2124:G:C8	2:AA:2124:G:C3'	2.79	0.61
2:AA:2483:C:C2	2:AA:2484:G:C8	2.88	0.61
2:AA:2505:G:N7	2:AA:2576:G:H2'	2.15	0.61
2:AA:2531:A:C2'	2:AA:2532:G:O5'	2.49	0.61
2:AA:2576:G:C5'	2:AA:2577:A:OP1	2.47	0.61
2:AA:2577:A:O2'	29:A5:4:HIS:CD2	2.52	0.61
2:AA:2705:A:H2'	2:AA:2706:G:C8	2.35	0.61
2:AA:2727:G:O3'	13:AN:70:ARG:NH1	2.33	0.61
2:AA:2792:G:H1'	2:AA:2805:G:N2	2.15	0.61
3:AC:49:ILE:HG13	3:AC:50:ASP:N	2.14	0.61
3:AC:62:VAL:HG12	3:AC:163:PHE:HD2	1.64	0.61
3:AC:75:LEU:CD1	3:AC:107:TRP:CH2	2.83	0.61
3:AC:77:ILE:HD11	3:AC:113:VAL:HG11	1.81	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:86:ARG:N	4:AD:86:ARG:CD	2.62	0.61
5:AE:41:PHE:C	5:AE:311:PHE:CZ	2.78	0.61
5:AE:229:GLN:O	5:AE:230:GLY:C	2.42	0.61
6:AF:59:GLU:OE2	6:AF:59:GLU:CA	2.48	0.61
6:AF:87:ARG:NH1	6:AF:87:ARG:HG2	2.15	0.61
6:AF:144:PHE:CE2	6:AF:156:LEU:HD13	2.34	0.61
6:AF:220:THR:HA	6:AF:224:ALA:HB2	1.81	0.61
6:AF:242:GLU:O	6:AF:243:VAL:C	2.43	0.61
7:AG:99:ASP:N	7:AG:104:PHE:HD2	1.97	0.61
8:AH:73:ASN:CB	8:AH:137:LYS:HZ2	2.05	0.61
9:AI:69:ASN:HB3	9:AI:72:GLN:HG3	1.82	0.61
9:AJ:18:LEU:CD1	9:AJ:44:VAL:HG12	2.30	0.61
9:AJ:62:VAL:HA	9:AJ:101:VAL:HA	1.81	0.61
11:AL:11:LEU:HD11	11:AL:58:ILE:HD12	1.82	0.61
11:AL:17:LYS:O	11:AL:18:ALA:HB2	1.99	0.61
11:AL:42:PHE:CZ	11:AL:58:ILE:HD11	2.35	0.61
13:AN:7:ARG:CZ	13:AN:44:LYS:CD	2.77	0.61
13:AN:11:ALA:CB	13:AN:99:PHE:HB3	2.30	0.61
15:AP:84:ARG:NH2	15:AP:123:ILE:HD12	2.15	0.61
20:AU:49:GLU:OE2	20:AU:97:ARG:CZ	2.48	0.61
21:AV:48:THR:HG22	21:AV:48:THR:O	2.00	0.61
23:AX:37:LEU:CB	23:AX:43:ILE:HG21	2.30	0.61
25:A1:75:ASN:O	25:A1:78:THR:OG1	2.14	0.61
26:A2:52:GLY:O	26:A2:53:LYS:C	2.43	0.61
26:A2:62:GLU:CG	26:A2:98:ILE:HD11	2.21	0.61
30:A6:28:ARG:O	30:A6:29:ARG:C	2.44	0.61
34:BA:15:G:C4'	40:BH:24:ARG:HH12	2.12	0.61
34:BA:22:G:C3'	34:BA:23:C:H6	2.13	0.61
34:BA:110:C:O2	34:BA:111:G:O4'	2.18	0.61
34:BA:113:G:C8	34:BA:114:U:H5	2.18	0.61
34:BA:164:U:H2'	34:BA:165:C:C6	2.35	0.61
34:BA:164:U:H2'	34:BA:165:C:C5	2.35	0.61
34:BA:238:G:N2	34:BA:239:U:C2	2.68	0.61
34:BA:246:A:N1	34:BA:279:A:N7	2.48	0.61
34:BA:327:A:C6	34:BA:329:A:C6	2.88	0.61
34:BA:506:G:O6	34:BA:525:C:N4	2.33	0.61
34:BA:972:C:H2'	34:BA:973:G:C8	2.35	0.61
34:BA:994:A:H2	49:BQ:4:LYS:HB3	1.64	0.61
34:BA:1117:G:C6	34:BA:1184:G:C6	2.88	0.61
34:BA:1230:C:O2'	48:BP:126:LYS:HG3	2.00	0.61
34:BA:1244:C:P	56:BX:9:ARG:HD3	2.39	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1261:A:C2	34:BA:1262:C:C2	2.87	0.61
34:BA:1266:G:N2	34:BA:1270:C:N4	2.47	0.61
34:BA:1298:C:C3'	42:BJ:114:ARG:NH1	2.60	0.61
35:BB:72:C:N3	35:BB:73:A:C8	2.68	0.61
37:BE:100:GLY:O	37:BE:104:ASN:HB3	2.00	0.61
37:BE:101:MET:HA	37:BE:108:ILE:CD1	2.30	0.61
38:BF:65:ALA:O	38:BF:66:VAL:HB	1.99	0.61
39:BG:13:ARG:NH1	39:BG:36:ARG:HB3	2.14	0.61
39:BG:114:ARG:O	39:BG:117:ALA:HB3	2.00	0.61
40:BH:35:GLY:HA3	40:BH:112:LEU:HD12	1.81	0.61
40:BH:78:HIS:HB3	43:BK:107:LEU:CG	2.30	0.61
41:BI:31:GLU:O	41:BI:34:GLY:N	2.33	0.61
42:BJ:94:ARG:NH1	42:BJ:94:ARG:HG3	2.13	0.61
43:BK:34:GLU:OE2	43:BK:118:VAL:HG23	1.99	0.61
46:BN:88:GLY:O	46:BN:90:GLY:N	2.32	0.61
47:BO:102:ARG:C	47:BO:104:VAL:H	2.08	0.61
47:BO:117:ARG:HH21	47:BO:123:LYS:CA	2.13	0.61
52:BT:29:HIS:CE1	52:BT:31:LEU:HB3	2.35	0.61
54:BV:36:ARG:C	54:BV:38:SER:H	2.08	0.61
2:AA:74:A:H4'	2:AA:75:G:O4'	2.00	0.61
2:AA:81:G:C2	2:AA:106:C:C4	2.87	0.61
2:AA:187:G:C2'	2:AA:188:G:H5'	2.31	0.61
2:AA:290:G:C2	2:AA:350:U:C2	2.87	0.61
2:AA:440:G:OP1	20:AU:3:GLN:HG3	2.01	0.61
2:AA:461:C:O2	2:AA:461:C:H2'	1.99	0.61
2:AA:558:G:H2'	2:AA:559:G:H5'	1.81	0.61
2:AA:569:U:O4'	2:AA:946:G:O2'	2.15	0.61
2:AA:629:G:OP1	32:A8:17:THR:HG22	2.00	0.61
2:AA:701:G:H2'	2:AA:702:G:H8	1.65	0.61
2:AA:734:A:HO2'	2:AA:735:A:C5'	2.12	0.61
2:AA:789:A:C2'	2:AA:790:C:OP1	2.48	0.61
2:AA:823:G:C2'	2:AA:824:A:C8	2.76	0.61
2:AA:865:C:H42	2:AA:909:A:N6	1.98	0.61
2:AA:901:A:C5	2:AA:902:C:C5	2.87	0.61
2:AA:1144:G:O2'	2:AA:1145:C:H5'	2.00	0.61
2:AA:1155:A:O3'	25:A1:55:ARG:NH2	2.33	0.61
2:AA:1288:U:C2	2:AA:1327:C:C2	2.88	0.61
2:AA:1300:U:N1	2:AA:1626:G:N2	2.47	0.61
2:AA:1587:A:C6	2:AA:1588:C:N4	2.68	0.61
2:AA:1640:C:O2'	2:AA:1641:A:O5'	2.19	0.61
2:AA:1899:G:H2'	2:AA:1900:A:OP2	1.99	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2056:G:N1	29:A5:4:HIS:O	2.33	0.61
2:AA:2090:G:H1	2:AA:2227:A:N6	1.98	0.61
2:AA:2287:A:N1	2:AA:2346:A:N7	2.48	0.61
2:AA:2320:A:H62	16:AQ:9:PRO:CG	2.12	0.61
2:AA:2343:C:C2'	2:AA:2344:U:H5'	2.30	0.61
2:AA:2471:C:C2'	2:AA:2472:G:O5'	2.47	0.61
2:AA:2553:G:O6	2:AA:2554:U:O2	2.18	0.61
2:AA:2571:C:O2'	5:AE:243:PRO:HD3	2.00	0.61
2:AA:2726:U:C3'	2:AA:2727:G:H8	2.13	0.61
2:AA:2769:C:H2'	2:AA:2770:G:C5'	2.30	0.61
2:AA:2776:A:C1'	2:AA:2778:A:C8	2.80	0.61
2:AA:2822:G:H5''	5:AE:258:TYR:CZ	2.35	0.61
2:AA:2840:C:C5'	24:A0:53:HIS:CD2	2.83	0.61
3:AC:140:PRO:C	3:AC:142:ALA:N	2.53	0.61
4:AD:128:ALA:HB2	4:AD:190:THR:HB	1.80	0.61
5:AE:75:THR:O	5:AE:292:PRO:HB2	2.00	0.61
7:AG:103:ASN:OD1	7:AG:133:ASN:HA	1.99	0.61
8:AH:18:VAL:HG21	8:AH:44:VAL:CG1	2.29	0.61
8:AH:37:HIS:NE2	8:AH:64:HIS:HE1	1.96	0.61
8:AH:101:LYS:NZ	8:AH:115:GLU:HB2	2.15	0.61
9:AJ:63:LEU:HD13	9:AJ:66:PHE:CZ	2.35	0.61
10:AK:75:LEU:HD13	10:AK:76:THR:N	2.03	0.61
12:AM:15:ARG:CA	12:AM:44:ALA:HA	2.29	0.61
13:AN:87:ILE:HG22	13:AN:88:ARG:N	2.14	0.61
13:AN:106:LEU:CD1	13:AN:114:ILE:HG21	2.31	0.61
15:AP:28:ILE:HG12	15:AP:62:GLU:OE2	1.99	0.61
15:AP:87:LYS:NZ	15:AP:115:SER:HA	2.14	0.61
15:AP:118:ALA:O	15:AP:119:ASN:HB3	2.01	0.61
16:AQ:32:PRO:HD2	16:AQ:101:VAL:H	1.65	0.61
17:AR:48:ASN:C	17:AR:49:LEU:O	2.41	0.61
18:AS:23:LEU:HD21	29:A5:27:ALA:CB	2.29	0.61
23:AX:12:PRO:HG2	23:AX:13:ILE:HD13	1.82	0.61
23:AX:26:LEU:CD2	23:AX:46:ASN:HB3	2.30	0.61
26:A2:10:LYS:O	26:A2:12:TYR:N	2.32	0.61
26:A2:43:GLU:C	26:A2:44:GLN:NE2	2.57	0.61
28:A4:7:PRO:HG2	28:A4:60:ASN:CB	2.30	0.61
28:A4:15:ILE:HG12	28:A4:36:TRP:CZ3	2.35	0.61
28:A4:58:LYS:C	28:A4:62:ARG:HE	2.07	0.61
29:A5:15:LYS:HB2	29:A5:15:LYS:HZ3	1.62	0.61
31:A7:21:ARG:HD2	31:A7:31:LEU:HD22	1.82	0.61
34:BA:8:A:OP1	34:BA:8:A:H3'	1.99	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:55:A:H2'	34:BA:56:U:O4'	2.00	0.61
34:BA:285:G:H2'	34:BA:286:G:H8	1.64	0.61
34:BA:292:G:N2	34:BA:309:G:C4	2.68	0.61
34:BA:440:A:OP2	34:BA:442:C:H5	1.83	0.61
34:BA:522:C:H2'	34:BA:523:A:O5'	2.00	0.61
34:BA:709:G:O2'	34:BA:710:G:H5'	2.00	0.61
34:BA:866:C:C5	34:BA:867:G:H1'	2.35	0.61
34:BA:887:G:H2'	34:BA:888:G:C8	2.35	0.61
34:BA:1044:A:H2'	34:BA:1045:C:C5'	2.30	0.61
34:BA:1127:G:H22	34:BA:1144:G:N2	1.98	0.61
34:BA:1240:U:OP2	42:BJ:116:ALA:N	2.26	0.61
34:BA:1256:A:C8	38:BF:27:LYS:NZ	2.63	0.61
34:BA:1299:A:O2'	34:BA:1300:G:O5'	2.07	0.61
34:BA:1397:C:O2'	34:BA:1398:A:OP2	2.15	0.61
36:B1:46:A:OP2	36:B1:47:U:H5	1.82	0.61
37:BE:115:LEU:CB	37:BE:145:LEU:HD12	2.23	0.61
37:BE:118:LEU:O	37:BE:119:GLU:C	2.42	0.61
37:BE:204:ASN:HD22	37:BE:204:ASN:C	2.07	0.61
38:BF:8:ILE:O	38:BF:11:ARG:N	2.31	0.61
39:BG:19:LEU:C	39:BG:31:CYS:SG	2.82	0.61
42:BJ:49:ILE:HG23	42:BJ:53:LYS:HG3	1.83	0.61
42:BJ:71:PRO:HD3	42:BJ:103:TRP:HZ3	1.65	0.61
43:BK:28:ALA:O	43:BK:29:SER:HB2	2.00	0.61
45:BM:25:GLU:O	45:BM:28:ARG:HB2	1.99	0.61
45:BM:55:LYS:O	45:BM:56:HIS:CG	2.53	0.61
46:BN:84:VAL:HG23	46:BN:111:ASP:H	1.64	0.61
52:BT:5:VAL:CG1	52:BT:6:LEU:N	2.62	0.61
52:BT:11:VAL:HG22	52:BT:20:THR:CB	2.30	0.61
52:BT:86:GLU:HA	52:BT:89:LEU:HD12	1.82	0.61
54:BV:39:THR:O	54:BV:41:VAL:HG13	1.99	0.61
55:BW:61:SER:O	55:BW:65:LYS:HG2	2.00	0.61
1:AB:45:A:N3	1:AB:45:A:H2'	2.15	0.61
2:AA:65:C:N3	2:AA:66:C:H5	1.99	0.61
2:AA:213:A:H2'	2:AA:214:G:O4'	1.99	0.61
2:AA:238:C:H2'	2:AA:239:U:O5'	2.00	0.61
2:AA:332:A:H2'	2:AA:334:C:OP2	2.00	0.61
2:AA:498:G:C8	2:AA:498:G:H3'	2.35	0.61
2:AA:673:C:O3'	6:AF:80:VAL:HG11	2.00	0.61
2:AA:780:G:C2'	2:AA:782:A:N7	2.56	0.61
2:AA:853:G:N2	2:AA:924:C:N3	2.47	0.61
2:AA:1084:A:OP2	9:AI:35:ALA:C	2.42	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1176:G:C8	2:AA:1177:A:O4'	2.53	0.61
2:AA:1265:A:O5'	2:AA:1267:U:O2	2.18	0.61
2:AA:1418:G:OP1	2:AA:1588:C:C4'	2.48	0.61
2:AA:1510:A:H8	2:AA:1511:A:C6	2.13	0.61
2:AA:1572:A:N3	2:AA:1572:A:H2'	2.16	0.61
2:AA:1576:U:C5	2:AA:1577:C:N3	2.68	0.61
2:AA:1814:G:H2'	2:AA:1815:A:N7	2.15	0.61
2:AA:1992:G:O2'	2:AA:1993:U:OP2	2.12	0.61
2:AA:2009:G:C5'	18:AS:40:ASN:HD21	2.12	0.61
2:AA:2103:C:N4	2:AA:2186:G:N1	2.26	0.61
2:AA:2137:C:P	2:AA:2137:C:O4'	2.58	0.61
2:AA:2305:A:H3'	2:AA:2305:A:H8	1.64	0.61
2:AA:2432:A:C2	2:AA:2433:A:N1	2.68	0.61
2:AA:2530:A:H2'	2:AA:2531:A:C5'	2.14	0.61
2:AA:2626:C:O5'	2:AA:2626:C:C6	2.48	0.61
2:AA:2720:U:C2'	2:AA:2720:U:O2	2.47	0.61
2:AA:2792:G:N2	2:AA:2793:G:C2	2.68	0.61
4:AD:94:ASN:OD1	4:AD:100:LYS:HD3	2.00	0.61
4:AD:116:MET:O	4:AD:127:ASN:OD1	2.18	0.61
4:AD:160:SER:C	4:AD:176:ALA:HB2	2.24	0.61
5:AE:39:GLN:CD	5:AE:174:LEU:CD1	2.64	0.61
6:AF:52:ALA:HA	6:AF:55:ARG:NH2	2.15	0.61
6:AF:91:PRO:HB2	6:AF:92:PRO:CD	2.30	0.61
7:AG:29:HIS:ND1	7:AG:69:ILE:CG1	2.63	0.61
7:AG:80:ALA:O	7:AG:84:LEU:HG	2.00	0.61
8:AH:37:HIS:CG	8:AH:40:MET:SD	2.93	0.61
8:AH:93:TYR:CE2	8:AH:159:LYS:HE2	2.35	0.61
8:AH:169:ARG:HA	8:AH:169:ARG:HE	1.66	0.61
9:AI:4:ASP:CG	11:AL:114:PRO:O	2.43	0.61
12:AM:54:VAL:HG13	12:AM:138:THR:OG1	2.00	0.61
13:AN:2:ILE:N	13:AN:67:ARG:NH2	2.48	0.61
13:AN:78:ARG:HB2	17:AR:21:PHE:CD1	2.35	0.61
14:AO:69:ILE:HB	14:AO:73:VAL:HG21	1.81	0.61
15:AP:59:ASN:HD22	15:AP:60:ALA:H	1.44	0.61
20:AU:62:VAL:CA	20:AU:74:VAL:HG22	2.28	0.61
21:AV:104:SER:O	21:AV:105:GLN:NE2	2.32	0.61
21:AV:123:VAL:HA	21:AV:161:ALA:HB2	1.81	0.61
21:AV:168:VAL:O	21:AV:169:VAL:CG2	2.47	0.61
24:A0:50:HIS:CE1	24:A0:54:LEU:HD21	2.35	0.61
24:A0:97:VAL:HG22	24:A0:114:VAL:CG1	2.31	0.61
25:A1:47:TYR:OH	26:A2:76:SER:N	2.33	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:87:ARG:NH1	26:A2:87:ARG:CB	2.63	0.61
28:A4:54:GLY:O	28:A4:55:ARG:CB	2.48	0.61
30:A6:35:LEU:O	30:A6:36:GLU:HG3	2.00	0.61
31:A7:30:ILE:CD1	31:A7:33:ARG:NH1	2.62	0.61
34:BA:15:G:O6	34:BA:1396:A:C6	2.53	0.61
34:BA:133:U:O2'	34:BA:134:A:C8	2.47	0.61
34:BA:246:A:N1	34:BA:279:A:C5	2.68	0.61
34:BA:259:G:H2'	34:BA:260:G:C8	2.35	0.61
34:BA:370:C:H2'	34:BA:371:G:H8	1.66	0.61
34:BA:462:G:N2	51:BS:82:GLN:NE2	2.34	0.61
34:BA:607:A:C2	34:BA:608:A:H1'	2.36	0.61
34:BA:703:G:O2'	34:BA:704:A:OP2	2.17	0.61
34:BA:771:G:H2'	34:BA:772:U:C6	2.32	0.61
34:BA:780:A:H3'	34:BA:780:A:C8	2.34	0.61
34:BA:900:A:H2'	34:BA:901:A:O5'	2.00	0.61
34:BA:932:C:H5''	42:BJ:3:ARG:HB3	1.81	0.61
34:BA:1181:G:H2'	34:BA:1182:G:O4'	2.00	0.61
34:BA:1191:A:N3	34:BA:1191:A:H2'	2.15	0.61
34:BA:1250:A:OP1	44:BL:66:ARG:CD	2.48	0.61
34:BA:1258:G:H1	34:BA:1277:C:H42	1.49	0.61
34:BA:1314:C:N4	54:BV:4:SER:OG	2.33	0.61
35:BB:8:U:O5'	35:BB:8:U:H6	1.82	0.61
35:BB:54:U:H6	35:BB:54:U:C4'	2.13	0.61
35:BC:33:U:H3'	35:BC:33:U:H6	1.64	0.61
37:BE:77:ALA:CB	37:BE:80:ILE:HD12	2.30	0.61
37:BE:221:LEU:O	37:BE:221:LEU:HD22	2.00	0.61
40:BH:20:GLN:O	40:BH:23:GLY:O	2.19	0.61
40:BH:91:LEU:HA	40:BH:119:LEU:O	2.00	0.61
40:BH:105:VAL:O	40:BH:106:PRO:C	2.43	0.61
40:BH:149:GLU:O	40:BH:152:ARG:N	2.34	0.61
42:BJ:50:ILE:HG21	42:BJ:58:PRO:HA	1.83	0.61
42:BJ:139:GLU:O	42:BJ:142:GLU:HB2	2.00	0.61
44:BL:97:LYS:HB3	44:BL:98:PRO:HD3	1.82	0.61
46:BN:20:TYR:CE1	46:BN:83:ILE:HD13	2.36	0.61
46:BN:27:ASN:OD1	46:BN:55:LYS:HD2	2.00	0.61
46:BN:73:MET:O	46:BN:74:ALA:C	2.42	0.61
48:BP:120:LYS:CG	48:BP:121:LYS:N	2.63	0.61
52:BT:70:ARG:C	52:BT:71:PHE:HD1	2.08	0.61
52:BT:70:ARG:O	52:BT:71:PHE:HD1	1.83	0.61
2:AA:172:C:O5'	2:AA:172:C:H6	1.82	0.61
2:AA:478:A:O2'	20:AU:90:PRO:HG3	2.00	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:565:C:OP2	26:A2:79:GLN:HB3	2.00	0.61
2:AA:611:C:H6	2:AA:618:G:H22	1.47	0.61
2:AA:625:G:H2'	2:AA:626:U:H5'	1.82	0.61
2:AA:749:C:O2'	2:AA:1617:C:C2'	2.48	0.61
2:AA:792:G:C8	2:AA:2440:C:O2	2.54	0.61
2:AA:989:G:H21	2:AA:990:A:H62	1.46	0.61
2:AA:1092:C:C6	2:AA:1092:C:C3'	2.84	0.61
2:AA:1305:C:O2'	2:AA:1306:C:C5'	2.49	0.61
2:AA:1612:C:H2'	31:A7:3:ARG:HE	1.62	0.61
2:AA:1808:U:H2'	2:AA:1808:U:O2	2.00	0.61
2:AA:1834:U:H2'	2:AA:1834:U:O2	1.99	0.61
2:AA:1949:G:H2'	2:AA:1950:G:H8	1.63	0.61
2:AA:2191:G:H2'	2:AA:2192:G:O4'	1.99	0.61
2:AA:2395:C:H5''	28:A4:28:ARG:NH1	2.15	0.61
2:AA:2476:A:C2'	2:AA:2477:C:H5'	2.31	0.61
2:AA:2479:G:H2'	2:AA:2480:C:O4'	2.00	0.61
2:AA:2575:C:C2'	5:AE:237:ASN:ND2	2.63	0.61
2:AA:2637:U:H2'	2:AA:2638:G:C1'	2.30	0.61
2:AA:2686:G:C6	2:AA:2687:U:C5	2.89	0.61
2:AA:2885:C:N4	2:AA:2886:G:C8	2.68	0.61
4:AD:70:LYS:O	4:AD:70:LYS:CG	2.48	0.61
4:AD:140:VAL:HG11	4:AD:189:ALA:HB1	1.82	0.61
5:AE:41:PHE:HZ	5:AE:173:ARG:HD3	1.63	0.61
5:AE:220:GLN:OE1	5:AE:223:LYS:NZ	2.33	0.61
5:AE:268:LEU:HD11	5:AE:294:THR:HB	1.81	0.61
6:AF:56:THR:HB	6:AF:57:PRO:CD	2.29	0.61
6:AF:200:PRO:HD3	6:AF:214:THR:CG2	2.30	0.61
6:AF:219:ASN:O	6:AF:220:THR:C	2.42	0.61
7:AG:38:GLU:HA	7:AG:41:LEU:HG	1.81	0.61
8:AH:112:VAL:HG12	8:AH:113:GLU:N	2.15	0.61
8:AH:168:VAL:HG12	8:AH:169:ARG:N	2.13	0.61
9:AI:83:LEU:CD1	9:AI:91:LEU:HD12	2.31	0.61
9:AJ:71:ILE:CD1	11:AL:62:GLU:H	2.13	0.61
9:AJ:86:LYS:NZ	11:AL:10:LYS:HD2	2.16	0.61
10:AK:112:LYS:C	10:AK:114:LYS:N	2.57	0.61
13:AN:2:ILE:HG22	13:AN:21:VAL:HG21	1.82	0.61
15:AP:45:GLN:HA	15:AP:125:TRP:CD1	2.36	0.61
15:AP:46:VAL:O	15:AP:124:ALA:O	2.18	0.61
15:AP:140:TYR:O	15:AP:142:LYS:N	2.33	0.61
18:AS:69:LEU:HA	18:AS:109:GLU:HA	1.83	0.61
18:AS:82:LEU:CB	18:AS:98:LYS:HB2	2.26	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:39:ASP:O	19:AT:40:ALA:C	2.41	0.61
20:AU:21:LYS:CG	20:AU:22:GLN:N	2.63	0.61
20:AU:108:ARG:O	20:AU:112:LEU:HD23	2.00	0.61
23:AX:20:LYS:HA	23:AX:23:LEU:HG	1.82	0.61
23:AX:40:THR:HG23	23:AX:43:ILE:HG12	1.82	0.61
24:A0:41:ALA:HB1	24:A0:114:VAL:CG2	2.28	0.61
25:A1:115:ASN:O	25:A1:117:ARG:N	2.33	0.61
26:A2:21:ARG:C	26:A2:92:ALA:HB1	2.22	0.61
30:A6:19:GLY:CA	30:A6:44:ALA:HB3	2.30	0.61
34:BA:8:A:H61	39:BG:209:ARG:HB2	1.65	0.61
34:BA:106:C:O2	34:BA:379:C:C5'	2.48	0.61
34:BA:254:G:O2'	52:BT:18:THR:OG1	2.14	0.61
34:BA:284:G:O2'	34:BA:285:G:H5'	2.00	0.61
34:BA:375:U:H2'	34:BA:376:G:H8	1.65	0.61
34:BA:543:C:H2'	34:BA:544:G:H8	1.64	0.61
34:BA:640:A:O2'	34:BA:641:U:H5'	1.99	0.61
34:BA:676:A:O4'	46:BN:115:PRO:HA	2.01	0.61
34:BA:687:A:C8	34:BA:701:C:N4	2.68	0.61
34:BA:1044:A:C2'	34:BA:1045:C:H5'	2.30	0.61
34:BA:1235:U:H5''	56:BX:3:LYS:CB	2.29	0.61
34:BA:1274:G:H2'	34:BA:1275:A:C8	2.29	0.61
34:BA:1319:A:C2	34:BA:1361:G:N2	2.68	0.61
34:BA:1409:C:H2'	34:BA:1410:G:H8	1.63	0.61
35:BB:6:U:C2	35:BB:7:U:C6	2.88	0.61
35:BB:34:G:H21	35:BB:35:A:H2	1.31	0.61
35:BC:50:U:N3	35:BC:65:G:C2	2.68	0.61
37:BE:16:HIS:CE1	37:BE:213:LEU:CD1	2.81	0.61
37:BE:25:ASN:OD1	37:BE:27:LYS:HB2	1.99	0.61
37:BE:132:LYS:HB2	37:BE:133:LYS:HE3	1.83	0.61
37:BE:152:PHE:CD1	37:BE:152:PHE:C	2.78	0.61
41:BI:50:TYR:O	41:BI:51:PRO:C	2.41	0.61
42:BJ:126:ASP:O	42:BJ:129:GLU:CB	2.41	0.61
43:BK:25:ASP:OD2	43:BK:58:TYR:CD2	2.53	0.61
44:BL:93:ARG:NE	44:BL:97:LYS:HB2	2.16	0.61
48:BP:63:THR:CG2	48:BP:64:TRP:H	2.13	0.61
49:BQ:17:LYS:O	49:BQ:19:ARG:N	2.33	0.61
49:BQ:40:CYS:N	49:BQ:43:CYS:SG	2.71	0.61
51:BS:32:TYR:HD1	51:BS:32:TYR:N	1.98	0.61
51:BS:54:GLU:O	51:BS:55:ARG:C	2.41	0.61
53:BU:63:GLN:HA	53:BU:66:LEU:CD1	2.30	0.61
55:BW:46:GLU:HB2	55:BW:48:LYS:CD	2.30	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:9:G:OP1	16:AQ:23:ARG:CZ	2.48	0.61
1:AB:29:A:H2'	1:AB:30:C:O4'	2.00	0.61
1:AB:76:G:H4'	21:AV:80:HIS:HB3	1.81	0.61
2:AA:13:A:O2'	2:AA:14:A:P	2.58	0.61
2:AA:23:G:N2	18:AS:77:ASP:CG	2.59	0.61
2:AA:99:U:N3	20:AU:107:LYS:HD3	2.16	0.61
2:AA:181:A:H5'	2:AA:181:A:C8	2.36	0.61
2:AA:305:U:H3	2:AA:312:G:H1	1.46	0.61
2:AA:363(D):G:O2'	2:AA:363(E):U:C5'	2.48	0.61
2:AA:417:C:N3	2:AA:2407:G:C6	2.69	0.61
2:AA:422:A:N1	2:AA:423:A:C2	2.68	0.61
2:AA:500:G:C2'	2:AA:502:A:OP2	2.48	0.61
2:AA:510:C:H3'	2:AA:512:G:C2	2.35	0.61
2:AA:527:C:C5'	2:AA:2779:U:O2	2.47	0.61
2:AA:565:C:OP1	26:A2:79:GLN:O	2.17	0.61
2:AA:996:A:N6	2:AA:1160:G:O6	2.33	0.61
2:AA:1106:G:C6	2:AA:1107:G:C6	2.88	0.61
2:AA:1315:C:O2'	2:AA:1392:A:O2'	2.02	0.61
2:AA:1341:U:O2'	2:AA:1342:A:P	2.59	0.61
2:AA:1422:G:C4	2:AA:1423:G:C8	2.89	0.61
2:AA:1424:G:H2'	2:AA:1425:G:O5'	2.00	0.61
2:AA:1479:G:N2	2:AA:1515:C:C5	2.68	0.61
2:AA:1494:A:C2	2:AA:1495:A:H5'	2.35	0.61
2:AA:1553:A:C6	2:AA:1556:C:C5	2.89	0.61
2:AA:1589:C:C2	2:AA:1590:U:C6	2.89	0.61
2:AA:1664:A:N7	2:AA:1664:A:OP2	2.34	0.61
2:AA:1717:G:C2	2:AA:1742:C:O2	2.50	0.61
2:AA:1731:G:N3	2:AA:1731:G:C2'	2.60	0.61
2:AA:1797:C:C6	2:AA:1797:C:H3'	2.36	0.61
2:AA:1800:C:C4	2:AA:1817:G:N1	2.69	0.61
2:AA:1819:A:C1'	2:AA:1821:A:C6	2.83	0.61
2:AA:1942:C:C6	2:AA:1943:U:C5	2.89	0.61
2:AA:1947:C:N3	2:AA:1948:G:N7	2.49	0.61
2:AA:1988:C:H2'	2:AA:1989:G:H5'	1.81	0.61
2:AA:2022:U:H3'	2:AA:2617:C:H5''	1.81	0.61
2:AA:2346:A:C1'	2:AA:2383:G:C8	2.82	0.61
2:AA:2460:U:C4	2:AA:2461:C:C4	2.88	0.61
2:AA:2699:C:O2'	2:AA:2700:C:H5'	2.00	0.61
2:AA:2784:C:H5''	5:AE:95:PRO:O	2.01	0.61
3:AC:36:LYS:HZ2	3:AC:36:LYS:C	2.08	0.61
4:AD:166:LYS:CB	4:AD:171:VAL:HG12	2.31	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:226:HIS:CG	5:AE:229:GLN:CD	2.78	0.61
6:AF:30:LEU:N	6:AF:30:LEU:HD23	2.13	0.61
6:AF:165:ASP:O	6:AF:166:ILE:C	2.43	0.61
6:AF:168:ARG:NE	6:AF:209:GLY:HA3	2.15	0.61
8:AH:41:THR:O	8:AH:52:THR:CB	2.48	0.61
9:AI:73:VAL:HG22	9:AI:121:ALA:C	2.25	0.61
10:AK:21:VAL:HB	10:AK:26:ALA:HB1	1.82	0.61
10:AK:114:LYS:HE2	10:AK:133:LEU:O	2.00	0.61
12:AM:104:TYR:CD1	12:AM:104:TYR:N	2.68	0.61
13:AN:13:ASN:O	13:AN:14:SER:C	2.41	0.61
13:AN:25:LEU:HB2	13:AN:38:VAL:O	2.00	0.61
13:AN:41:ALA:C	13:AN:42:THR:CG2	2.74	0.61
13:AN:104:ARG:NH1	13:AN:122:ILE:CA	2.49	0.61
14:AO:94:ARG:NH1	14:AO:119:THR:C	2.58	0.61
15:AP:31:PHE:CZ	15:AP:88:PHE:CD2	2.88	0.61
15:AP:57:ARG:O	15:AP:60:ALA:HB3	2.00	0.61
15:AP:86:ARG:HH11	15:AP:120:HIS:CD2	2.16	0.61
21:AV:19:ILE:CG1	21:AV:36:ARG:HG2	2.31	0.61
23:AX:7:LYS:CB	23:AX:34:GLU:HG2	2.28	0.61
23:AX:31:LEU:HD13	23:AX:32:GLN:CG	2.31	0.61
25:A1:72:HIS:ND1	25:A1:110:VAL:HG11	2.15	0.61
25:A1:77:SER:OG	25:A1:78:THR:HG23	2.01	0.61
26:A2:36:LYS:N	26:A2:60:VAL:HG22	2.15	0.61
27:A3:86:THR:O	27:A3:87:GLU:C	2.43	0.61
34:BA:24:U:O2'	34:BA:25:C:H5'	2.01	0.61
34:BA:176:C:H2'	34:BA:177:C:H6	1.64	0.61
34:BA:254:G:O3'	52:BT:69:LYS:NZ	2.33	0.61
34:BA:360:A:N6	34:BA:361:G:C6	2.69	0.61
34:BA:437:U:H2'	34:BA:438:G:O4'	2.00	0.61
34:BA:591:U:N3	34:BA:649:G:C6	2.69	0.61
34:BA:678:U:C4	34:BA:679:C:N4	2.68	0.61
34:BA:768:A:N7	34:BA:769:G:C8	2.69	0.61
34:BA:815:A:C2	34:BA:1529:G:C4	2.89	0.61
34:BA:877:C:HO2'	43:BK:3:THR:HB	1.62	0.61
34:BA:953:G:C6	34:BA:954:G:C5	2.88	0.61
34:BA:974:A:N3	49:BQ:31:ARG:NH2	2.47	0.61
34:BA:1130:A:C4	34:BA:1146:A:C2	2.89	0.61
34:BA:1135:U:N3	34:BA:1137:C:C2	2.68	0.61
34:BA:1343:G:C2	34:BA:1344:C:C2	2.88	0.61
34:BA:1365:G:C6	34:BA:1366:C:C4	2.88	0.61
34:BA:1488:G:H2'	34:BA:1489:G:C8	2.33	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:37:G:OP2	35:BB:39:U:O4	2.17	0.61
38:BF:44:GLU:HA	38:BF:52:LEU:HD13	1.81	0.61
40:BH:37:ARG:HA	40:BH:112:LEU:O	1.99	0.61
42:BJ:44:TYR:O	42:BJ:45:ASP:C	2.43	0.61
43:BK:112:LEU:CD2	43:BK:113:SER:N	2.64	0.61
44:BL:48:GLU:N	44:BL:49:PRO:HD2	2.16	0.61
46:BN:21:ILE:HG23	46:BN:30:VAL:CG2	2.31	0.61
46:BN:84:VAL:HG21	53:BU:88:LYS:HZ1	1.62	0.61
48:BP:81:LEU:O	48:BP:84:ILE:HG12	1.99	0.61
51:BS:20:VAL:HA	51:BS:36:ILE:HG12	1.80	0.61
52:BT:43:LEU:HD23	52:BT:44:ALA:N	2.15	0.61
52:BT:53:LEU:HD11	52:BT:85:VAL:HG13	1.81	0.61
55:BW:22:ARG:O	55:BW:26:ASN:ND2	2.33	0.61
55:BW:44:ALA:HB1	55:BW:92:LEU:HD21	1.80	0.61
55:BW:54:LYS:HG2	55:BW:100:ILE:CD1	2.29	0.61
55:BW:75:ASN:C	55:BW:78:ALA:HB3	2.25	0.61
56:BX:23:PRO:C	56:BX:25:LYS:H	2.09	0.61
2:AA:84:A:N7	20:AU:111:ARG:NH2	2.48	0.61
2:AA:347:A:N7	2:AA:348:G:C8	2.69	0.61
2:AA:349:G:C2	2:AA:350:U:C6	2.87	0.61
2:AA:424:G:O2'	2:AA:425:G:H5'	2.01	0.61
2:AA:780:G:C5	2:AA:782:A:C6	2.89	0.61
2:AA:996:A:H2'	2:AA:997:G:H8	1.66	0.61
2:AA:1058:G:C4'	9:AI:2:THR:HA	2.29	0.61
2:AA:1069:A:N6	2:AA:1073:A:C4	2.68	0.61
2:AA:1165:U:H2'	2:AA:1166:C:H6	1.65	0.61
2:AA:1364:G:O6	28:A4:2:GLN:HG3	2.00	0.61
2:AA:1529:A:C6	2:AA:1530:G:O2'	2.54	0.61
2:AA:1701:A:H2'	2:AA:1702:G:H5'	1.82	0.61
2:AA:1725:G:C6	2:AA:1741:C:N4	2.69	0.61
2:AA:1890:A:C8	2:AA:1890:A:O5'	2.53	0.61
2:AA:1891:G:N3	2:AA:1891:G:H2'	2.16	0.61
2:AA:1943:U:C2	2:AA:1945:G:C5'	2.81	0.61
2:AA:2000:G:C4	2:AA:2001:A:N7	2.69	0.61
2:AA:2259:G:N2	2:AA:2282:G:C6	2.68	0.61
2:AA:2261:C:OP2	27:A3:14:ARG:HG2	2.00	0.61
2:AA:2530:A:C3'	2:AA:2531:A:H5''	2.30	0.61
2:AA:2730:C:O3'	5:AE:265:ASN:CG	2.44	0.61
2:AA:2888:C:H2'	2:AA:2889:C:O4'	2.00	0.61
4:AD:85:ASN:HB2	4:AD:86:ARG:NH2	2.16	0.61
5:AE:101:THR:O	5:AE:102:ASP:C	2.43	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:201:VAL:O	5:AE:262:THR:OG1	2.19	0.61
5:AE:205:THR:HG22	5:AE:261:ARG:CD	2.30	0.61
5:AE:216:ARG:HD3	5:AE:254:GLY:H	1.65	0.61
5:AE:263:GLU:O	5:AE:266:LYS:CE	2.48	0.61
6:AF:32:GLY:C	6:AF:36:ARG:NE	2.51	0.61
6:AF:87:ARG:O	6:AF:88:SER:HB2	2.00	0.61
7:AG:50:VAL:O	7:AG:50:VAL:HG12	1.99	0.61
8:AH:34:ARG:HH22	8:AH:74:MET:CA	2.12	0.61
9:AI:60:ASP:OD2	9:AI:101:VAL:HG11	2.00	0.61
10:AK:2:LYS:HG3	10:AK:18:ILE:HD11	1.83	0.61
10:AK:94:THR:HG21	10:AK:96:LYS:HB3	1.81	0.61
11:AL:20:PRO:O	11:AL:23:PRO:HD2	2.01	0.61
12:AM:42:GLU:HA	12:AM:132:LEU:O	2.00	0.61
13:AN:10:VAL:CG2	13:AN:16:ALA:HB3	2.31	0.61
13:AN:64:ARG:HB2	13:AN:79:PHE:HE1	1.62	0.61
14:AO:94:ARG:CZ	14:AO:118:LEU:HB2	2.31	0.61
14:AO:101:ASP:O	14:AO:102:ASP:CG	2.44	0.61
15:AP:15:THR:CA	15:AP:20:ILE:HG12	2.31	0.61
15:AP:57:ARG:HB3	15:AP:60:ALA:CB	2.30	0.61
15:AP:123:ILE:C	15:AP:136:TRP:HE1	2.09	0.61
15:AP:147:VAL:HG12	15:AP:148:ASN:N	2.14	0.61
18:AS:8:ARG:HH11	18:AS:8:ARG:CB	2.13	0.61
18:AS:68:ARG:O	18:AS:110:LYS:N	2.33	0.61
20:AU:31:LEU:N	20:AU:34:GLU:OE2	2.34	0.61
20:AU:60:GLY:C	20:AU:61:GLU:OE1	2.43	0.61
21:AV:98:VAL:CA	21:AV:134:LEU:O	2.44	0.61
21:AV:163:ASP:CG	21:AV:164:PRO:CD	2.72	0.61
24:A0:78:LYS:HG3	24:A0:82:GLU:HG3	1.83	0.61
24:A0:87:TYR:CE2	24:A0:118:GLU:OE1	2.53	0.61
26:A2:20:ILE:HG23	26:A2:67:LYS:HD2	1.82	0.61
27:A3:14:ARG:C	27:A3:14:ARG:CD	2.68	0.61
28:A4:57:ASP:C	28:A4:61:LYS:HG3	2.26	0.61
34:BA:236:G:C3'	34:BA:237:C:H6	2.13	0.61
34:BA:378:G:N2	34:BA:385:C:C2	2.67	0.61
34:BA:591:U:H3	34:BA:648:A:H61	1.49	0.61
34:BA:1066:C:C6	34:BA:1067:A:N7	2.69	0.61
34:BA:1089:G:N2	34:BA:1096:C:N3	2.42	0.61
34:BA:1213:A:C6	34:BA:1215:G:N3	2.69	0.61
34:BA:1244:C:OP1	56:BX:9:ARG:NH1	2.34	0.61
34:BA:1269:A:N1	34:BA:1312:G:H1'	2.16	0.61
34:BA:1328:C:H2'	34:BA:1329:A:H8	1.64	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:25:ASN:O	37:BE:25:ASN:CG	2.40	0.61
37:BE:147:LYS:HG3	37:BE:148:TYR:HD1	1.64	0.61
38:BF:8:ILE:HG22	38:BF:9:GLY:N	2.15	0.61
39:BG:110:PHE:O	39:BG:161:ASN:ND2	2.33	0.61
39:BG:151:LYS:O	39:BG:154:ASN:ND2	2.33	0.61
40:BH:144:THR:C	40:BH:146:ALA:N	2.55	0.61
42:BJ:94:ARG:NH2	42:BJ:98:SER:OG	2.34	0.61
44:BL:37:PHE:C	44:BL:40:LEU:HD12	2.25	0.61
44:BL:114:TYR:HB3	45:BM:60:ARG:NH1	2.16	0.61
48:BP:74:VAL:O	48:BP:78:ILE:CG1	2.47	0.61
53:BU:58:LEU:HB2	53:BU:63:GLN:NE2	2.13	0.61
55:BW:13:LEU:O	55:BW:16:HIS:N	2.33	0.61
56:BX:3:LYS:HB3	56:BX:14:TRP:CD1	2.35	0.61
56:BX:6:ARG:O	56:BX:8:THR:N	2.30	0.61
1:AB:58:A:O2'	7:AG:140:ARG:CZ	2.49	0.61
1:AB:113:C:O2'	1:AB:114:G:H5'	2.01	0.61
2:AA:5:A:H5'	5:AE:94:ARG:HH22	1.66	0.61
2:AA:35:G:C1'	2:AA:454:A:N3	2.63	0.61
2:AA:48:G:N3	2:AA:178:G:C2	2.68	0.61
2:AA:50:U:C6	2:AA:50:U:C3'	2.83	0.61
2:AA:59:U:H2'	2:AA:60:G:H4'	1.81	0.61
2:AA:66:C:O2'	2:AA:67:U:H5'	2.00	0.61
2:AA:126:A:H2'	2:AA:127:A:O4'	2.01	0.61
2:AA:147:U:H2'	2:AA:148:C:O4'	2.00	0.61
2:AA:353:G:H3'	2:AA:354:G:C8	2.35	0.61
2:AA:730:C:C2'	2:AA:731:C:H5'	2.30	0.61
2:AA:1028:A:H2'	2:AA:1029:A:H8	1.66	0.61
2:AA:1034:G:P	33:A9:18:ARG:HH21	2.22	0.61
2:AA:1058:G:O2'	9:AI:3:ILE:HG13	2.01	0.61
2:AA:1132:A:H2'	2:AA:1133:U:O2	2.01	0.61
2:AA:1261:C:H3'	2:AA:1261:C:P	2.40	0.61
2:AA:1325:G:P	2:AA:1616:A:N7	2.74	0.61
2:AA:1482:U:O2'	2:AA:1512:G:N2	2.34	0.61
2:AA:1566:A:C2	4:AD:212:HIS:CB	2.83	0.61
2:AA:1582:C:H3'	2:AA:1583:A:C4'	2.31	0.61
2:AA:1672:C:H2'	2:AA:1673:U:H5'	1.83	0.61
2:AA:1843:C:H2'	2:AA:1844:C:C6	2.36	0.61
2:AA:1907:G:C2	2:AA:1908:C:C5	2.89	0.61
2:AA:1952:A:C6	2:AA:1953:A:N1	2.69	0.61
2:AA:2418:A:C2'	2:AA:2419:U:O4'	2.47	0.61
2:AA:2454:G:C5	2:AA:2455:G:C8	2.88	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2652:C:C5	2:AA:2653:U:C4	2.89	0.61
2:AA:2712:U:O2'	2:AA:712(A):A:P	2.58	0.61
2:AA:2732:G:H3'	2:AA:2733:A:H5'	1.83	0.61
2:AA:2892:A:H2'	2:AA:2893:G:C1'	2.31	0.61
3:AC:75:LEU:HD22	3:AC:110:PHE:CD2	2.35	0.61
3:AC:82:LYS:HG3	3:AC:116:THR:HB	1.81	0.61
3:AC:133:PRO:HG2	3:AC:134:ARG:N	2.15	0.61
5:AE:225:LYS:CA	5:AE:228:ARG:NH1	2.64	0.61
6:AF:103:ASN:O	6:AF:107:ARG:HG3	2.01	0.61
6:AF:164:ALA:HA	6:AF:232:LEU:HD12	1.81	0.61
9:AI:53:GLN:HA	9:AI:128:LYS:HZ3	1.66	0.61
9:AJ:35:ALA:O	9:AJ:39:VAL:CB	2.45	0.61
9:AJ:69:ASN:HB3	9:AJ:72:GLN:HG3	1.82	0.61
10:AK:8:ASP:OD1	10:AK:11:GLY:O	2.19	0.61
10:AK:66:LYS:CA	10:AK:69:LYS:HB3	2.31	0.61
10:AK:89:LEU:HD11	10:AK:124:LEU:CD1	2.30	0.61
12:AM:14:ALA:O	12:AM:15:ARG:CB	2.47	0.61
12:AM:55:GLU:O	12:AM:56:LYS:C	2.43	0.61
13:AN:95:GLY:O	13:AN:97:ARG:N	2.28	0.61
15:AP:28:ILE:CD1	15:AP:89:PRO:HG3	2.29	0.61
15:AP:47:GLU:OE1	15:AP:150:ASP:O	2.19	0.61
16:AQ:17:ARG:NH1	16:AQ:106:LEU:HD22	2.14	0.61
18:AS:24:ILE:HG21	18:AS:36:LEU:HG	1.83	0.61
18:AS:26:GLY:O	18:AS:27:LYS:HG3	2.01	0.61
18:AS:28:SER:HB3	18:AS:31:GLU:OE2	2.00	0.61
18:AS:40:ASN:CG	18:AS:41:LYS:N	2.58	0.61
19:AT:77:VAL:O	19:AT:78:ALA:C	2.43	0.61
21:AV:19:ILE:HD13	21:AV:36:ARG:HG2	1.81	0.61
21:AV:149:ALA:HB3	21:AV:165:GLU:N	2.15	0.61
23:AX:26:LEU:HB2	23:AX:28:LEU:CD1	2.26	0.61
24:A0:28:LEU:C	24:A0:28:LEU:CD1	2.74	0.61
24:A0:49:ASP:O	24:A0:52:ILE:HB	2.01	0.61
30:A6:28:ARG:HB2	30:A6:30:ASN:CB	2.28	0.61
32:A8:60:LEU:O	32:A8:61:MET:O	2.18	0.61
33:A9:6:SER:HA	33:A9:8:LYS:NZ	2.15	0.61
34:BA:97:G:C6	34:BA:98:U:C4	2.88	0.61
34:BA:134:A:C2	34:BA:135:C:N3	2.68	0.61
34:BA:197:A:O2'	34:BA:198:G:H8	1.82	0.61
34:BA:388:G:O2'	34:BA:389:A:OP2	2.14	0.61
34:BA:422:C:O5'	34:BA:422:C:H6	1.84	0.61
34:BA:452:A:N6	34:BA:480:U:H3	1.99	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:562:C:H5''	34:BA:563:A:OP1	2.00	0.61
34:BA:643:C:N3	34:BA:644:G:C8	2.69	0.61
34:BA:665:A:OP2	34:BA:666:G:OP1	2.18	0.61
34:BA:755:G:H2'	34:BA:756:C:C5	2.35	0.61
34:BA:1166:G:C2	34:BA:1171:G:O6	2.53	0.61
34:BA:1323:G:H4'	34:BA:1362:C:C4	2.35	0.61
34:BA:1373:G:C1'	42:BJ:34:GLY:HA2	2.30	0.61
34:BA:1405:G:O4'	34:BA:1519:A:H4'	2.00	0.61
34:BA:1531:A:N3	34:BA:1532:U:N3	2.48	0.61
35:BB:43:G:H5''	35:BB:43:G:H8	1.64	0.61
35:BB:67:A:N3	35:BB:68:U:C5	2.67	0.61
35:BB:69:U:H2'	35:BB:70:C:C6	2.36	0.61
38:BF:57:ILE:HG23	38:BF:66:VAL:CG2	2.31	0.61
39:BG:78:LEU:O	39:BG:81:GLU:N	2.34	0.61
39:BG:127:THR:HB	39:BG:147:ALA:HB3	1.82	0.61
41:BI:14:LEU:HD13	41:BI:18:GLN:CB	2.30	0.61
41:BI:37:VAL:CA	41:BI:65:VAL:HG12	2.18	0.61
45:BM:38:ILE:CG1	45:BM:71:LEU:HB3	2.30	0.61
46:BN:48:ILE:O	46:BN:50:TYR:N	2.33	0.61
47:BO:82:VAL:N	47:BO:106:ASP:OD1	2.33	0.61
47:BO:126:LYS:O	47:BO:127:GLU:HG3	2.01	0.61
48:BP:78:ILE:O	48:BP:81:LEU:HD22	2.01	0.61
49:BQ:45:ARG:O	49:BQ:49:HIS:CD2	2.54	0.61
51:BS:68:ASP:O	51:BS:69:THR:C	2.44	0.61
52:BT:18:THR:O	52:BT:19:VAL:HG13	2.00	0.61
54:BV:15:LEU:HD12	54:BV:44:MET:CE	2.29	0.61
1:AB:41:U:OP1	1:AB:42:C:C5	2.53	0.61
1:AB:80:U:O2'	2:AA:918:A:H2'	2.00	0.61
2:AA:112:U:H6	2:AA:112:U:C5'	2.08	0.61
2:AA:152:G:O6	2:AA:175:G:O6	2.19	0.61
2:AA:179:G:C5	2:AA:180:G:C5	2.89	0.61
2:AA:273(C):C:N3	2:AA:273(D):C:N4	2.49	0.61
2:AA:414:C:H4'	2:AA:1863:G:H22	1.64	0.61
2:AA:531:C:H42	25:A1:38:THR:HB	1.66	0.61
2:AA:558:G:O2'	2:AA:559:G:H5'	2.01	0.61
2:AA:564:C:O2'	2:AA:1252:G:N1	2.32	0.61
2:AA:609:A:C8	2:AA:609(A):G:N7	2.69	0.61
2:AA:865:C:N4	2:AA:908:C:N4	2.49	0.61
2:AA:1029:A:O5'	2:AA:1029:A:C8	2.54	0.61
2:AA:1129:A:O2'	2:AA:2515:C:C2'	2.49	0.61
2:AA:142(A):A:H5''	2:AA:1143:A:OP2	1.99	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1152:C:H2'	2:AA:1153:C:H5'	1.82	0.61
2:AA:1326:U:O2'	2:AA:1327:C:H5'	2.01	0.61
2:AA:1327:C:H2'	2:AA:1328:G:H8	1.64	0.61
2:AA:1368:G:OP1	31:A7:25:LYS:NZ	2.34	0.61
2:AA:1458:C:O2'	2:AA:1459:G:C2	2.52	0.61
2:AA:1510:A:N7	2:AA:1511:A:N1	2.49	0.61
2:AA:1669:A:O3'	2:AA:2550:G:OP1	2.19	0.61
2:AA:1905:C:C4	2:AA:1930:G:N2	2.69	0.61
2:AA:1920:C:OP1	34:BA:1517:G:O4'	2.19	0.61
2:AA:1988:C:H2'	2:AA:1989:G:C5'	2.30	0.61
2:AA:2008:C:C4	2:AA:2009:G:N7	2.68	0.61
2:AA:2085:C:O2'	2:AA:2086:U:H5'	2.00	0.61
2:AA:2117:A:OP1	2:AA:2117:A:H4'	1.99	0.61
2:AA:2137:C:C5	2:AA:2154:G:N2	2.65	0.61
2:AA:2208:U:O2'	2:AA:2209:C:H5'	2.00	0.61
2:AA:2291:U:C5'	2:AA:2380:C:O2	2.48	0.61
2:AA:2305:A:H2	7:AG:72:LYS:CE	2.13	0.61
2:AA:2320:A:C6	16:AQ:13:ARG:HG2	2.35	0.61
2:AA:2423:U:O2	2:AA:2423:U:C2'	2.47	0.61
2:AA:2488:A:H2'	2:AA:2489:G:O5'	1.99	0.61
2:AA:2547:U:C6	2:AA:2566:A:C6	2.89	0.61
2:AA:2595:G:C2	2:AA:2599:G:O6	2.54	0.61
2:AA:2679:A:H5''	5:AE:261:ARG:HD3	1.81	0.61
2:AA:2709:G:C2'	2:AA:2710:C:H5'	2.30	0.61
2:AA:2797:U:OP1	2:AA:2797:U:H4'	2.00	0.61
2:AA:2807:G:H2'	2:AA:2808:U:C5	2.35	0.61
2:AA:2877:G:C2	2:AA:2878:U:N3	2.68	0.61
2:AA:2889:C:H2'	2:AA:2891:G:O4'	1.99	0.61
3:AC:22:ILE:HG23	3:AC:189:ILE:HG21	1.82	0.61
3:AC:42:GLU:OE1	3:AC:172:HIS:HD2	1.84	0.61
3:AC:103:ILE:HA	3:AC:107:TRP:O	2.01	0.61
5:AE:44:TYR:CA	5:AE:309:PRO:HD2	2.22	0.61
5:AE:83:LEU:HD13	5:AE:178:LEU:CD2	2.30	0.61
5:AE:221:LYS:HE2	5:AE:233:ARG:HA	1.83	0.61
5:AE:267:ARG:HB2	5:AE:297:LYS:CE	2.31	0.61
6:AF:62:GLY:N	6:AF:65:ARG:NH2	2.48	0.61
9:AI:26:GLU:O	9:AI:30:GLY:N	2.34	0.61
9:AI:61:VAL:HG21	9:AI:114:ILE:HB	1.83	0.61
10:AK:3:VAL:CG1	10:AK:19:LYS:H	2.13	0.61
10:AK:63:ALA:O	10:AK:64:ASN:C	2.44	0.61
10:AK:94:THR:O	10:AK:97:GLN:N	2.34	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:69:ILE:HB	11:AL:71:LYS:HE3	1.81	0.61
12:AM:105:LEU:HD23	12:AM:105:LEU:H	1.63	0.61
13:AN:7:ARG:NE	13:AN:44:LYS:CD	2.63	0.61
13:AN:99:PHE:CE2	17:AR:24:LYS:HE2	2.36	0.61
15:AP:41:THR:HG21	15:AP:127:ASN:N	2.15	0.61
15:AP:72:VAL:HG21	15:AP:83:PHE:CZ	2.36	0.61
15:AP:84:ARG:HH22	15:AP:86:ARG:HH21	1.43	0.61
16:AQ:83:LEU:HA	16:AQ:86:LEU:HG	1.82	0.61
17:AR:21:PHE:HB2	17:AR:31:PHE:HD1	1.61	0.61
18:AS:23:LEU:HD12	29:A5:25:LEU:CB	2.14	0.61
18:AS:80:PRO:HG2	18:AS:100:THR:OG1	2.01	0.61
19:AT:72:ASP:HB2	19:AT:75:GLN:NE2	2.15	0.61
21:AV:90:GLU:O	21:AV:92:VAL:HG23	2.01	0.61
21:AV:116:VAL:HG23	21:AV:169:VAL:CG2	2.31	0.61
23:AX:22:ALA:CA	23:AX:46:ASN:ND2	2.58	0.61
34:BA:19:C:H5''	40:BH:86:ALA:HB1	1.83	0.61
34:BA:144:G:N3	34:BA:179:A:C2	2.69	0.61
34:BA:184:G:H5'	34:BA:224:C:H4'	1.83	0.61
34:BA:188:C:H2'	34:BA:189:G:C5'	2.30	0.61
34:BA:255:G:H1'	52:BT:16:GLN:NE2	2.15	0.61
34:BA:295:C:O2'	34:BA:296:U:C5'	2.48	0.61
34:BA:432:A:N7	34:BA:433:C:C5	2.69	0.61
34:BA:494:G:O2'	34:BA:495:U:C5	2.49	0.61
34:BA:671:G:C4	34:BA:672:U:C5	2.89	0.61
34:BA:752:G:OP2	34:BA:752:G:H8	1.83	0.61
34:BA:769:G:N1	34:BA:811:C:O2	2.34	0.61
34:BA:922:G:H5''	40:BH:20:GLN:NE2	2.15	0.61
34:BA:1008:C:H42	34:BA:1021:G:H1	1.47	0.61
34:BA:1048:G:H5''	49:BQ:3:ARG:HD3	1.83	0.61
34:BA:1202:G:N2	34:BA:1203:C:C1'	2.63	0.61
34:BA:1411:C:H2'	34:BA:1412:C:H6	1.64	0.61
34:BA:1425:U:O2'	34:BA:1426:C:C5'	2.49	0.61
34:BA:1510:U:H2'	34:BA:1511:G:C8	2.36	0.61
37:BE:71:VAL:CG1	37:BE:72:GLY:N	2.64	0.61
39:BG:63:LYS:O	39:BG:67:ILE:HG13	2.01	0.61
39:BG:173:TRP:CH2	39:BG:194:LEU:HD11	2.35	0.61
41:BI:67:MET:HE3	41:BI:68:PRO:C	2.25	0.61
42:BJ:29:LYS:HZ1	42:BJ:102:ARG:HE	1.49	0.61
42:BJ:72:ARG:NH1	42:BJ:72:ARG:HG2	2.15	0.61
44:BL:19:LEU:HD21	44:BL:61:ALA:HB2	1.82	0.61
46:BN:16:SER:O	46:BN:35:PRO:CG	2.47	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:77:LEU:O	47:BO:78:GLN:CG	2.48	0.61
48:BP:8:GLU:HG3	48:BP:22:ILE:HG12	1.83	0.61
48:BP:48:LEU:CD2	48:BP:53:VAL:HG23	2.29	0.61
49:BQ:21:TYR:N	49:BQ:21:TYR:CD1	2.69	0.61
49:BQ:36:PHE:CD1	49:BQ:37:PHE:HD2	2.19	0.61
52:BT:34:LYS:HG3	52:BT:35:VAL:N	2.15	0.61
54:BV:5:LEU:HD12	54:BV:9:VAL:CB	2.31	0.61
55:BW:66:ALA:CB	55:BW:72:LEU:HB2	2.30	0.61
55:BW:75:ASN:ND2	55:BW:75:ASN:N	2.48	0.61
2:AA:154:G:N3	2:AA:155:C:H1'	2.16	0.61
2:AA:240:G:C5	2:AA:241:A:C6	2.89	0.61
2:AA:261:G:O2'	2:AA:262:A:H5'	2.00	0.61
2:AA:262:A:C2	2:AA:430:G:H1'	2.36	0.61
2:AA:286:C:H3'	2:AA:286:C:C6	2.36	0.61
2:AA:324:A:N7	2:AA:340:A:H1'	2.16	0.61
2:AA:351:G:O4'	2:AA:351:G:OP1	2.18	0.61
2:AA:478:A:N6	2:AA:480:A:C6	2.68	0.61
2:AA:585:G:N1	2:AA:1251:C:H5	1.98	0.61
2:AA:674:G:H4'	6:AF:69:HIS:CA	2.31	0.61
2:AA:695:G:C6	2:AA:768:G:O6	2.54	0.61
2:AA:737:C:N4	2:AA:759:G:N1	2.48	0.61
2:AA:771:G:C6	2:AA:772:C:C4	2.89	0.61
2:AA:808:G:C2'	2:AA:809:G:O5'	2.49	0.61
2:AA:1055:G:H21	9:AI:29:PHE:HE1	1.47	0.61
2:AA:1081:U:H1'	11:AL:117:ASN:HD22	1.65	0.61
2:AA:1087:G:H2'	2:AA:1103:A:C2	2.36	0.61
2:AA:1358:G:N1	2:AA:1372:U:OP2	2.32	0.61
2:AA:1461:G:P	2:AA:1461:G:H8	2.24	0.61
2:AA:1473:G:C4	2:AA:1474:C:C6	2.89	0.61
2:AA:1605:C:H4'	2:AA:1610:A:H62	1.66	0.61
2:AA:1770:G:C6	2:AA:1983:C:N3	2.68	0.61
2:AA:1869:G:C2	2:AA:1878:G:O6	2.54	0.61
2:AA:1920:C:OP1	34:BA:1517:G:C8	2.54	0.61
2:AA:2012:G:H5'	18:AS:98:LYS:NZ	2.16	0.61
2:AA:2020:A:N6	2:AA:2022:U:C2	2.69	0.61
2:AA:2055:C:C4'	2:AA:2056:G:H5''	2.29	0.61
2:AA:2124:G:OP2	3:AC:129:ARG:HA	2.01	0.61
2:AA:2135:A:N3	2:AA:2135:A:C3'	2.55	0.61
2:AA:2476:A:C8	2:AA:2477:C:C6	2.89	0.61
2:AA:2507:C:N4	2:AA:2582:G:C6	2.69	0.61
2:AA:2556:C:N4	2:AA:2557:G:C2	2.68	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2591:C:O2'	2:AA:2592:G:H5'	2.01	0.61
2:AA:2619:C:H4'	5:AE:246:VAL:HG12	1.82	0.61
2:AA:2635:C:H1'	5:AE:98:GLU:OE2	2.01	0.61
2:AA:2694:G:O6	2:AA:2695:C:N4	2.34	0.61
2:AA:2702:U:OP1	2:AA:2702:U:O4'	2.18	0.61
3:AC:20:TYR:HB3	3:AC:24:GLU:CD	2.26	0.61
3:AC:75:LEU:HD13	3:AC:107:TRP:CH2	2.36	0.61
4:AD:129:LEU:HD22	4:AD:133:ASN:HB2	1.82	0.61
5:AE:85:ALA:HB1	5:AE:87:GLU:CD	2.25	0.61
5:AE:174:LEU:C	5:AE:177:ALA:HB3	2.24	0.61
5:AE:212:GLY:C	5:AE:216:ARG:HG3	2.26	0.61
6:AF:163:HIS:HA	6:AF:166:ILE:CD1	2.30	0.61
6:AF:215:ALA:HB1	6:AF:238:SER:O	2.01	0.61
7:AG:13:MET:HA	7:AG:13:MET:CE	2.27	0.61
7:AG:18:ILE:HG21	7:AG:77:ASP:CA	2.28	0.61
7:AG:49:PRO:HB2	7:AG:72:LYS:C	2.25	0.61
7:AG:55:LYS:O	7:AG:56:ARG:HG2	2.01	0.61
7:AG:144:ARG:O	7:AG:148:SER:HB3	2.00	0.61
8:AH:75:VAL:O	8:AH:76:GLU:C	2.43	0.61
8:AH:90:GLY:O	8:AH:92:GLY:N	2.33	0.61
8:AH:93:TYR:C	8:AH:94:ARG:HG3	2.26	0.61
9:AJ:71:ILE:HA	11:AL:61:TYR:CB	2.30	0.61
9:AJ:80:ILE:HG23	9:AJ:103:LYS:CD	2.22	0.61
9:AJ:85:LEU:HD12	11:AL:57:VAL:CG1	2.31	0.61
10:AK:42:ALA:C	10:AK:43:ASN:HD22	2.08	0.61
10:AK:83:ALA:HA	10:AK:90:PHE:CE1	2.36	0.61
12:AM:74:ARG:HB3	12:AM:76:ASP:OD2	2.00	0.61
12:AM:96:GLU:HA	12:AM:99:GLU:OE2	2.00	0.61
15:AP:136:TRP:O	15:AP:139:ALA:N	2.34	0.61
16:AQ:33:ARG:HG3	16:AQ:48:VAL:HB	1.83	0.61
18:AS:36:LEU:HD11	18:AS:47:VAL:HG12	1.83	0.61
21:AV:51:LEU:HG	21:AV:64:ALA:O	2.01	0.61
22:AW:43:PRO:CD	22:AW:46:ILE:HG12	2.31	0.61
23:AX:1:MET:O	23:AX:2:PRO:C	2.44	0.61
23:AX:53:LEU:C	23:AX:54:VAL:HG13	2.26	0.61
25:A1:106:PHE:O	25:A1:109:LEU:N	2.33	0.61
26:A2:77:GLY:O	26:A2:78:VAL:HG13	2.01	0.61
27:A3:35:ASN:O	27:A3:36:ILE:HG12	2.00	0.61
27:A3:69:PHE:O	27:A3:70:ILE:HG23	2.01	0.61
34:BA:83:U:H2'	34:BA:84:U:O4'	2.01	0.61
34:BA:390:C:C2'	34:BA:391:G:O5'	2.49	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:392:G:P	51:BS:8:ARG:NH2	2.74	0.61
34:BA:829:G:C4'	37:BE:26:PRO:HG2	2.28	0.61
34:BA:932:C:C5'	42:BJ:3:ARG:HB3	2.30	0.61
34:BA:934:C:N4	34:BA:1344:C:N3	2.49	0.61
34:BA:986:A:H1'	54:BV:54:GLY:O	2.00	0.61
34:BA:1190:G:P	38:BF:5:ILE:HG13	2.40	0.61
34:BA:1368:G:P	44:BL:113:LYS:HA	2.40	0.61
35:BB:52:U:C2'	35:BB:53:G:H5'	2.31	0.61
35:BC:9:A:H2	35:BC:45:G:C8	2.18	0.61
35:BC:18:G:H2'	35:BC:19:G:O5'	2.00	0.61
35:BC:53:G:C6	35:BC:62:A:N6	2.69	0.61
37:BE:21:ARG:O	37:BE:23:ARG:HD3	2.01	0.61
37:BE:130:ARG:CB	37:BE:131:PRO:HD2	2.29	0.61
37:BE:219:VAL:CA	37:BE:222:ILE:HG23	2.31	0.61
38:BF:7:PRO:HG3	38:BF:184:TYR:CG	2.35	0.61
38:BF:54:ARG:NH2	38:BF:56:ASP:OD1	2.34	0.61
38:BF:138:VAL:O	38:BF:170:GLN:NE2	2.33	0.61
39:BG:102:ASP:OD2	39:BG:118:ARG:HB2	2.01	0.61
39:BG:141:ARG:CB	39:BG:142:PRO:CD	2.77	0.61
39:BG:173:TRP:CE2	39:BG:189:PRO:HB3	2.35	0.61
40:BH:127:ASN:O	40:BH:128:PRO:C	2.42	0.61
45:BM:51:ARG:NH2	45:BM:61:GLU:CD	2.59	0.61
47:BO:46:LYS:HG2	47:BO:47:LYS:N	2.11	0.61
47:BO:82:VAL:HG12	47:BO:83:VAL:N	2.13	0.61
48:BP:16:ASP:HA	48:BP:19:LEU:CD1	2.30	0.61
50:BR:15:PHE:HZ	50:BR:85:LEU:HD21	1.64	0.61
52:BT:59:ILE:CD1	52:BT:73:VAL:HA	2.31	0.61
55:BW:84:LEU:HD13	55:BW:84:LEU:C	2.26	0.61
2:AA:1:G:N2	2:AA:2902:C:N3	2.40	0.61
2:AA:17:G:P	29:A5:13:LYS:HZ2	2.24	0.61
2:AA:221:A:O2'	2:AA:222:A:OP2	2.18	0.61
2:AA:284:U:O2	2:AA:357:A:N1	2.33	0.61
2:AA:285:C:N3	2:AA:355:G:C6	2.69	0.61
2:AA:341:G:O2'	2:AA:342:G:H5'	2.00	0.61
2:AA:473:G:C2'	2:AA:474:G:H5'	2.31	0.61
2:AA:616:A:H2'	2:AA:617:G:C2	2.36	0.61
2:AA:665:C:C2	2:AA:666:G:N7	2.68	0.61
2:AA:685:A:C4	2:AA:774:A:C6	2.89	0.61
2:AA:705:A:OP2	2:AA:725:G:N2	2.32	0.61
2:AA:800:A:O2'	2:AA:801:G:O5'	2.17	0.61
2:AA:848:G:H2'	2:AA:849:A:H8	1.63	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:960:A:C2	2:AA:962:G:O4'	2.54	0.61
2:AA:1058:G:N3	9:AI:3:ILE:CD1	2.60	0.61
2:AA:1070:A:N6	2:AA:1096:A:C2	2.66	0.61
2:AA:1176:G:OP1	2:AA:1176:G:H4'	2.01	0.61
2:AA:1213:A:N6	2:AA:1236:G:H1'	2.15	0.61
2:AA:1324:G:H1'	2:AA:1616:A:H61	1.66	0.61
2:AA:1351:C:O2'	2:AA:1571:A:C1'	2.48	0.61
2:AA:1381:G:C6	2:AA:1382:G:C6	2.89	0.61
2:AA:1424:G:H2'	2:AA:1424:G:N3	2.14	0.61
2:AA:1453:A:N7	2:AA:1454:U:C6	2.69	0.61
2:AA:1576:U:H2'	2:AA:1577:C:H1'	1.82	0.61
2:AA:1666:G:OP1	13:AN:66:LYS:HE2	2.01	0.61
2:AA:1881:C:O2'	2:AA:1882:C:H5'	2.01	0.61
2:AA:1909:C:C2'	2:AA:1910:G:H5'	2.31	0.61
2:AA:1914:C:H2'	2:AA:1914:C:O2	2.00	0.61
2:AA:2026:C:C2	2:AA:2027:G:C8	2.89	0.61
2:AA:2287:A:HO2'	2:AA:2288:A:P	2.24	0.61
2:AA:2436:G:H2'	2:AA:2437:U:O5'	2.01	0.61
2:AA:2468:G:O5'	2:AA:2468:G:H8	1.82	0.61
2:AA:2551:C:H2'	2:AA:2552:U:H6	1.66	0.61
2:AA:2567:G:C2	2:AA:2568:C:C5	2.88	0.61
2:AA:2639:A:C2	2:AA:2640:G:H1'	2.36	0.61
2:AA:2674:G:C2'	2:AA:2675:A:H8	2.01	0.61
2:AA:2697:G:O2'	2:AA:2698:U:C5'	2.48	0.61
3:AC:68:LEU:HD23	3:AC:72:VAL:HG21	1.82	0.61
3:AC:123:VAL:O	3:AC:137:LEU:CD2	2.49	0.61
3:AC:131:LEU:HB3	3:AC:136:LEU:O	2.00	0.61
4:AD:140:VAL:CB	4:AD:191:VAL:HG12	2.31	0.61
5:AE:238:LEU:HD22	5:AE:238:LEU:N	2.13	0.61
5:AE:240:PRO:HB2	5:AE:243:PRO:CG	2.31	0.61
6:AF:197:SER:HB2	6:AF:239:ALA:N	2.15	0.61
7:AG:56:ARG:HB3	7:AG:56:ARG:HH11	1.62	0.61
8:AH:153:PRO:HB3	8:AH:161:ILE:O	2.01	0.61
9:AI:18:LEU:CD1	9:AI:44:VAL:HG12	2.31	0.61
9:AI:26:GLU:OE1	9:AJ:43:PRO:HG3	2.01	0.61
10:AK:5:PHE:CE1	10:AK:16:GLY:N	2.69	0.61
11:AL:71:LYS:O	11:AL:72:THR:C	2.44	0.61
11:AL:104:GLN:C	11:AL:107:GLU:HG3	2.26	0.61
12:AM:15:ARG:HG2	12:AM:43:ARG:CB	2.20	0.61
12:AM:39:VAL:HG12	12:AM:104:TYR:C	2.26	0.61
15:AP:140:TYR:O	15:AP:143:VAL:HG22	2.00	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:140:TYR:C	15:AP:142:LYS:N	2.54	0.61
16:AQ:12:ARG:CZ	16:AQ:20:TYR:CE2	2.84	0.61
18:AS:19:LEU:HB3	29:A5:25:LEU:HG	1.83	0.61
18:AS:97:LYS:HB2	18:AS:99:ARG:HD3	1.83	0.61
19:AT:57:THR:O	19:AT:59:ASP:OD1	2.18	0.61
20:AU:33:GLU:HG2	20:AU:34:GLU:N	2.16	0.61
20:AU:48:VAL:CG1	20:AU:97:ARG:O	2.43	0.61
20:AU:87:VAL:CG1	20:AU:88:PRO:HD2	2.30	0.61
21:AV:36:ARG:HA	21:AV:39:PHE:CD1	2.36	0.61
21:AV:41:ARG:HE	21:AV:41:ARG:N	1.99	0.61
21:AV:100:THR:CA	21:AV:137:ASP:CG	2.71	0.61
23:AX:54:VAL:HG23	23:AX:55:ARG:N	2.14	0.61
24:A0:114:VAL:HG12	24:A0:115:GLU:N	2.15	0.61
25:A1:103:PRO:HG2	25:A1:104:GLU:H	1.65	0.61
26:A2:7:THR:O	26:A2:9:GLY:N	2.33	0.61
26:A2:67:LYS:HB2	26:A2:92:ALA:O	2.00	0.61
28:A4:20:VAL:O	28:A4:20:VAL:CG1	2.49	0.61
32:A8:7:HIS:O	32:A8:11:LYS:HG3	2.01	0.61
34:BA:110:C:O2'	34:BA:111:G:H5'	2.01	0.61
34:BA:132:C:O2'	34:BA:133:U:O5'	2.19	0.61
34:BA:376:G:OP1	51:BS:6:LEU:CD1	2.49	0.61
34:BA:410:G:C4	34:BA:432:A:N6	2.69	0.61
34:BA:484:G:O4'	34:BA:486:U:C6	2.54	0.61
34:BA:490:G:H2'	34:BA:491:G:C8	2.35	0.61
34:BA:517:G:H5'	34:BA:519:C:N4	2.16	0.61
34:BA:547:A:C4'	34:BA:548:G:O5'	2.42	0.61
34:BA:706:A:C2	34:BA:707:C:C6	2.89	0.61
34:BA:995:C:H2'	49:BQ:4:LYS:HZ3	1.65	0.61
34:BA:1000:U:C4	34:BA:1041:A:N1	2.69	0.61
34:BA:1199:U:H4'	45:BM:54:PHE:CE2	2.35	0.61
34:BA:1314:C:OP2	54:BV:6:LYS:HG2	2.00	0.61
34:BA:1345:U:C2	34:BA:1377:A:C6	2.89	0.61
34:BA:1378:C:N3	34:BA:1379:G:H1'	2.15	0.61
34:BA:1406:U:C2	34:BA:1407:C:C6	2.89	0.61
34:BA:1471:G:H2'	34:BA:1472:U:C6	2.36	0.61
35:BC:5:A:C2'	35:BC:6:U:O5'	2.49	0.61
35:BC:73:A:H2'	35:BC:74:C:OP1	2.00	0.61
36:B1:69:A:H3'	36:B1:69:A:N3	2.16	0.61
37:BE:72:GLY:HA2	37:BE:165:VAL:HG22	1.83	0.61
37:BE:163:PHE:CB	37:BE:185:ILE:HD12	2.31	0.61
39:BG:20:TYR:HA	39:BG:26:CYS:O	2.00	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:96:LEU:HD12	39:BG:96:LEU:H	1.66	0.61
39:BG:101:LEU:HD22	39:BG:138:TYR:HB3	1.82	0.61
39:BG:107:ARG:HB3	39:BG:174:LEU:CD1	2.31	0.61
39:BG:119:GLN:HG2	39:BG:123:HIS:CD2	2.36	0.61
39:BG:159:ARG:O	39:BG:163:GLU:CB	2.48	0.61
39:BG:204:ILE:HD12	39:BG:204:ILE:H	1.66	0.61
41:BI:8:ILE:HG23	41:BI:88:VAL:HA	1.81	0.61
43:BK:98:LYS:NZ	43:BK:98:LYS:C	2.59	0.61
45:BM:44:VAL:CG1	45:BM:46:ARG:HE	2.12	0.61
46:BN:50:TYR:CG	46:BN:54:ARG:CB	2.84	0.61
47:BO:46:LYS:HG2	47:BO:47:LYS:HG3	1.83	0.61
51:BS:68:ASP:C	51:BS:70:ALA:N	2.57	0.61
1:AB:14:U:O2'	1:AB:107:U:H4'	2.01	0.60
1:AB:49:C:OP1	16:AQ:111:PRO:HD2	2.00	0.60
1:AB:99:A:O2'	1:AB:100:G:H5'	2.01	0.60
2:AA:58:G:C4	2:AA:73:A:N1	2.69	0.60
2:AA:184:C:HO2'	2:AA:217:G:N2	1.98	0.60
2:AA:197:A:H61	2:AA:248:G:N2	1.94	0.60
2:AA:285:C:C2	2:AA:356:G:N2	2.69	0.60
2:AA:288:C:P	2:AA:289:A:OP2	2.58	0.60
2:AA:422:A:N1	2:AA:423:A:N3	2.49	0.60
2:AA:476:G:H4'	2:AA:505:A:C2	2.36	0.60
2:AA:774:A:C5'	2:AA:778:G:C4'	2.77	0.60
2:AA:776:G:C6	2:AA:793:A:C8	2.89	0.60
2:AA:840:C:C5'	2:AA:1192:G:H1'	2.30	0.60
2:AA:919:G:N3	2:AA:920:G:C8	2.69	0.60
2:AA:956:G:H2'	2:AA:957:A:C5'	2.31	0.60
2:AA:1000:A:H8	2:AA:1154:G:N2	1.99	0.60
2:AA:1025:G:H8	2:AA:1134:G:H1'	1.64	0.60
2:AA:1061:U:O4'	2:AA:1070:A:H1'	2.00	0.60
2:AA:1065:U:H3'	2:AA:1066:U:C5'	2.27	0.60
2:AA:1212:G:C2	2:AA:1236:G:C6	2.88	0.60
2:AA:1286:A:C2	2:AA:1329:U:C2	2.89	0.60
2:AA:1352:U:O2'	2:AA:1570:A:H2'	2.00	0.60
2:AA:1403:C:H5'	2:AA:1471:A:H5'	1.80	0.60
2:AA:1442:G:H1	2:AA:1549:C:H42	0.73	0.60
2:AA:1576:U:H5	2:AA:1577:C:N3	1.98	0.60
2:AA:1775:U:H3'	2:AA:1775:U:P	2.41	0.60
2:AA:1788:C:C2	2:AA:1789:A:C8	2.89	0.60
2:AA:1800:C:O2'	2:AA:1802:A:O4'	2.18	0.60
2:AA:1805:U:H2'	2:AA:1806:C:C6	2.35	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1835:G:O2'	2:AA:1836:C:H5'	2.00	0.60
2:AA:1881:C:H6	2:AA:1881:C:C5'	2.14	0.60
2:AA:1923:U:P	35:BC:25:C:H4'	2.40	0.60
2:AA:1943:U:C2	2:AA:1945:G:O4'	2.54	0.60
2:AA:1970:A:O2'	2:AA:1971:A:H5'	2.01	0.60
2:AA:2134:A:C2	2:AA:2152:G:OP2	2.54	0.60
2:AA:2218:G:H4'	4:AD:184:LEU:CD1	2.31	0.60
2:AA:2322:A:O4'	2:AA:2322:A:OP1	2.19	0.60
2:AA:2355:C:C5	2:AA:2356:C:N4	2.69	0.60
2:AA:2519:U:C4	2:AA:2542:A:C8	2.89	0.60
2:AA:2742:C:O2'	2:AA:2743:C:H5'	2.01	0.60
2:AA:2748:A:N6	2:AA:2757:A:N7	2.49	0.60
3:AC:144:THR:HA	3:AC:152:ILE:CG2	2.25	0.60
3:AC:145:VAL:N	3:AC:152:ILE:HD13	2.16	0.60
4:AD:112:GLY:O	4:AD:113:MET:C	2.44	0.60
4:AD:208:GLY:CA	4:AD:210:LYS:NZ	2.63	0.60
5:AE:87:GLU:OE1	5:AE:96:LEU:HB2	2.00	0.60
5:AE:193:PHE:HE2	5:AE:199:ALA:HB1	1.65	0.60
9:AJ:73:VAL:HG22	9:AJ:122:GLY:N	2.16	0.60
9:AJ:106:VAL:HG11	9:AJ:114:ILE:CD1	2.31	0.60
9:AJ:112:GLU:HA	9:AJ:115:LYS:HD2	1.83	0.60
12:AM:18:ILE:O	12:AM:18:ILE:CG2	2.49	0.60
12:AM:44:ALA:CA	12:AM:132:LEU:HB2	2.30	0.60
13:AN:41:ALA:O	13:AN:42:THR:CG2	2.48	0.60
15:AP:54:VAL:HG13	15:AP:56:ILE:HD13	1.81	0.60
15:AP:94:ARG:CZ	15:AP:105:PHE:O	2.49	0.60
16:AQ:33:ARG:HB3	16:AQ:35:VAL:HG22	1.82	0.60
18:AS:13:SER:OG	18:AS:16:LYS:N	2.34	0.60
20:AU:55:PHE:CZ	20:AU:89:ARG:CZ	2.84	0.60
20:AU:102:ASP:HB3	20:AU:108:ARG:CZ	2.31	0.60
21:AV:3:LEU:HD22	21:AV:34:LEU:CB	2.29	0.60
21:AV:6:LYS:CE	21:AV:30:VAL:HG11	2.30	0.60
21:AV:75:LYS:O	21:AV:76:ARG:HB2	2.00	0.60
22:AW:28:LEU:O	22:AW:31:ARG:HB2	2.00	0.60
23:AX:17:LYS:O	23:AX:18:ASP:C	2.42	0.60
24:A0:30:THR:HB	24:A0:31:HIS:CE1	2.35	0.60
25:A1:53:LYS:HA	25:A1:56:ASP:OD2	2.01	0.60
25:A1:63:GLN:C	25:A1:65:ILE:N	2.52	0.60
26:A2:12:TYR:CE1	26:A2:14:VAL:HB	2.35	0.60
27:A3:47:ALA:HB2	27:A3:73:GLY:O	2.01	0.60
32:A8:19:THR:HB	32:A8:21:LYS:HZ2	1.64	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:55:A:N6	34:BA:357:G:H1'	2.16	0.60
34:BA:59:A:H1'	34:BA:388:G:H5''	1.83	0.60
34:BA:198:G:O2'	34:BA:199:G:H5'	2.00	0.60
34:BA:217:C:H2'	34:BA:218:C:H6	1.66	0.60
34:BA:237:C:H2'	34:BA:238:G:H8	1.66	0.60
34:BA:272:C:H2'	34:BA:273:A:C8	2.34	0.60
34:BA:299:G:C2'	34:BA:300:A:C8	2.83	0.60
34:BA:404:U:P	39:BG:118:ARG:NH1	2.74	0.60
34:BA:448:A:O2'	34:BA:449:C:H5'	2.00	0.60
34:BA:475:G:C2'	34:BA:476:G:H8	2.13	0.60
34:BA:642:A:C2	43:BK:113:SER:O	2.54	0.60
34:BA:859:A:N6	34:BA:860:A:C2	2.69	0.60
34:BA:900:A:C2'	34:BA:901:A:O5'	2.48	0.60
34:BA:941:G:H1	34:BA:1342:C:N4	1.96	0.60
34:BA:1016:A:H8	34:BA:1016:A:O5'	1.84	0.60
34:BA:1150:U:H4'	34:BA:1280:A:C2	2.35	0.60
34:BA:1189:C:OP1	38:BF:5:ILE:CG2	2.40	0.60
34:BA:1337:G:H5''	34:BA:1338:G:OP1	2.00	0.60
34:BA:1368:G:O2'	34:BA:1369:C:H5'	2.01	0.60
34:BA:1378:C:N3	34:BA:1379:G:C1'	2.64	0.60
34:BA:1427:U:O2'	34:BA:1428:A:H5'	2.01	0.60
34:BA:1498:U:O2'	34:BA:1499:A:C5'	2.49	0.60
34:BA:1528:U:H2'	34:BA:1530:G:H5'	1.82	0.60
35:BC:71:G:C2'	35:BC:72:C:H5'	2.30	0.60
37:BE:82:ARG:CB	37:BE:83:MET:HE2	2.30	0.60
37:BE:91:PRO:HG3	37:BE:154:LEU:CB	2.31	0.60
37:BE:114:ARG:HD2	37:BE:141:GLU:OE1	2.02	0.60
37:BE:144:ARG:CD	37:BE:148:TYR:OH	2.49	0.60
38:BF:48:TYR:HA	38:BF:52:LEU:HD21	1.82	0.60
39:BG:150:GLU:CD	39:BG:150:GLU:N	2.57	0.60
43:BK:129:VAL:HG13	43:BK:130:GLY:N	2.15	0.60
46:BN:102:GLY:O	46:BN:103:LEU:O	2.19	0.60
47:BO:85:ILE:HG13	47:BO:99:HIS:O	2.01	0.60
54:BV:79:THR:HG22	54:BV:79:THR:O	2.00	0.60
1:AB:34:U:O4	1:AB:48:A:N1	2.34	0.60
1:AB:99:A:N1	1:AB:100:G:C6	2.70	0.60
2:AA:10:G:H2'	2:AA:11:G:C8	2.35	0.60
2:AA:112:U:C6	2:AA:112:U:C5'	2.82	0.60
2:AA:122:G:C6	2:AA:130:C:C4	2.88	0.60
2:AA:241:A:H1'	2:AA:243:U:C5	2.36	0.60
2:AA:291:C:N4	2:AA:349:G:C2	2.68	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:342:G:N1	2:AA:344:G:C2	2.69	0.60
2:AA:357:A:H2'	2:AA:358:U:H5''	1.82	0.60
2:AA:506:G:H4'	2:AA:509:C:H1'	1.81	0.60
2:AA:547:A:H4'	2:AA:549:G:C2	2.37	0.60
2:AA:558:G:O2'	2:AA:559:G:C5'	2.49	0.60
2:AA:566:U:C3'	2:AA:567:A:H8	2.11	0.60
2:AA:650:C:O2	2:AA:650:C:H2'	2.01	0.60
2:AA:713:G:N1	2:AA:714:U:C6	2.69	0.60
2:AA:778:G:N2	2:AA:787:U:C2	2.69	0.60
2:AA:782:A:H4'	2:AA:783:A:N7	2.15	0.60
2:AA:856:C:O2'	27:A3:24:LYS:HB2	2.00	0.60
2:AA:1007:C:O4'	12:AM:86:MET:O	2.19	0.60
2:AA:1021:A:N3	2:AA:1123:C:P	2.74	0.60
2:AA:1091:G:C2	2:AA:1101:U:C2	2.90	0.60
2:AA:142(A):A:C4	2:AA:1143:A:C8	2.89	0.60
2:AA:1165:U:O2'	2:AA:1166:C:C6	2.52	0.60
2:AA:1422:G:N1	2:AA:1576:U:C2	2.67	0.60
2:AA:1462:C:H5'	2:AA:1463:C:OP2	2.00	0.60
2:AA:1466:G:O2'	2:AA:1546:C:H4'	2.01	0.60
2:AA:1646:C:H3'	2:AA:1647:G:H5'	1.83	0.60
2:AA:1650:G:H21	2:AA:1651:G:H1'	1.65	0.60
2:AA:1689:A:C6	2:AA:1700:A:N1	2.69	0.60
2:AA:1743:G:C5	2:AA:1746:G:C8	2.88	0.60
2:AA:1773:A:C2'	2:AA:1774:C:H5'	2.32	0.60
2:AA:1785:A:O2'	2:AA:1786:A:H5'	2.01	0.60
2:AA:1796:U:N3	2:AA:1823:G:N1	2.19	0.60
2:AA:1827:C:N3	2:AA:1828:G:H1'	2.16	0.60
2:AA:1887:C:H2'	2:AA:1888:G:O5'	2.01	0.60
2:AA:1979:C:O2	2:AA:1979:C:H2'	2.01	0.60
2:AA:2061:G:C4	2:AA:2063:C:N4	2.69	0.60
2:AA:2210:G:N7	4:AD:148:GLY:HA3	2.15	0.60
2:AA:2287:A:N6	2:AA:2289:G:N3	2.50	0.60
2:AA:2309:A:C5'	2:AA:2310:A:OP2	2.49	0.60
2:AA:2310:A:C2	7:AG:55:LYS:HD3	2.36	0.60
2:AA:2354:G:O2'	2:AA:2355:C:H5'	2.01	0.60
2:AA:2466:C:N4	2:AA:2467:C:N4	2.48	0.60
2:AA:2553:G:C8	2:AA:2553:G:C3'	2.78	0.60
2:AA:2584:U:H2'	2:AA:2585:U:H6	1.60	0.60
2:AA:2626:C:C2	2:AA:2627:G:C8	2.89	0.60
2:AA:2719:G:C8	2:AA:2719:G:O5'	2.48	0.60
4:AD:63:ILE:HG22	4:AD:64:ILE:H	1.64	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:155:SER:O	6:AF:156:LEU:C	2.44	0.60
7:AG:106:PHE:O	7:AG:107:GLY:O	2.19	0.60
8:AH:43:THR:CG2	8:AH:52:THR:CG2	2.78	0.60
9:AJ:13:LEU:HB3	9:AJ:17:GLU:HB2	1.82	0.60
9:AJ:62:VAL:CG2	9:AJ:101:VAL:HG22	2.30	0.60
10:AK:124:LEU:HD11	10:AK:146:THR:CA	2.31	0.60
13:AN:24:VAL:HG11	13:AN:32:TYR:N	2.15	0.60
15:AP:57:ARG:C	15:AP:61:LEU:HD11	2.26	0.60
20:AU:21:LYS:O	20:AU:24:ARG:HG3	2.01	0.60
20:AU:31:LEU:O	20:AU:34:GLU:CB	2.45	0.60
20:AU:31:LEU:HD23	20:AU:31:LEU:H	1.66	0.60
20:AU:52:ARG:HD2	20:AU:95:ASN:ND2	2.16	0.60
21:AV:7:PRO:HG2	21:AV:8:ARG:N	2.12	0.60
21:AV:40:ASP:HB2	21:AV:41:ARG:HH21	1.66	0.60
22:AW:13:PRO:CA	22:AW:16:ARG:HD2	2.25	0.60
24:A0:77:ARG:O	24:A0:78:LYS:C	2.42	0.60
25:A1:13:ARG:NH1	25:A1:13:ARG:CB	2.50	0.60
28:A4:4:ASP:HB3	28:A4:5:LEU:HD23	1.82	0.60
30:A6:16:ALA:CB	30:A6:19:GLY:H	2.13	0.60
34:BA:237:C:OP1	52:BT:40:LYS:CD	2.49	0.60
34:BA:331:G:OP1	34:BA:332:G:H5'	2.02	0.60
34:BA:390:C:H2'	34:BA:391:G:C8	2.35	0.60
34:BA:522:C:C4	34:BA:523:A:N6	2.69	0.60
34:BA:598:U:N3	34:BA:599:C:C5	2.69	0.60
34:BA:622:A:H2'	34:BA:623:C:H5'	1.83	0.60
34:BA:684:A:N3	46:BN:39:PRO:CG	2.57	0.60
34:BA:737:A:H5'	41:BI:90:VAL:CG1	2.31	0.60
34:BA:748:C:O2'	34:BA:749:C:H5'	2.01	0.60
34:BA:757:U:C5'	34:BA:878:G:N2	2.63	0.60
34:BA:793:U:H5'	34:BA:794:A:C8	2.35	0.60
34:BA:817:C:O2'	34:BA:818:G:O5'	2.19	0.60
34:BA:1290:G:O3'	42:BJ:37:ASN:OD1	2.19	0.60
34:BA:1298:C:C2'	42:BJ:114:ARG:NH1	2.64	0.60
34:BA:1342:C:O2'	44:BL:124:GLN:HA	2.01	0.60
35:BB:21:A:C6	35:BB:46:G:N1	2.69	0.60
35:BB:42:G:C5'	35:BB:43:G:OP2	2.25	0.60
35:BC:7:U:C2	35:BC:67:A:C2	2.89	0.60
35:BC:70:C:C2	35:BC:71:G:C8	2.89	0.60
37:BE:15:VAL:HG11	37:BE:209:ARG:CB	2.31	0.60
37:BE:150:SER:CA	37:BE:153:ARG:HB3	2.29	0.60
37:BE:152:PHE:C	37:BE:152:PHE:HD1	2.09	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:222:ILE:HG12	37:BE:223:ILE:HG13	1.83	0.60
38:BF:52:LEU:O	38:BF:115:LEU:HD21	2.01	0.60
38:BF:77:ILE:C	38:BF:83:ARG:HB3	2.26	0.60
39:BG:9:CYS:SG	39:BG:31:CYS:O	2.59	0.60
40:BH:110:LEU:HA	40:BH:113:ALA:CB	2.31	0.60
41:BI:42:GLU:O	41:BI:44:GLY:N	2.35	0.60
41:BI:46:ARG:HH12	53:BU:37:VAL:CG1	2.14	0.60
43:BK:46:LYS:HE3	43:BK:64:LYS:HG3	1.83	0.60
43:BK:48:TYR:CA	43:BK:61:VAL:HG22	2.31	0.60
43:BK:64:LYS:O	43:BK:79:VAL:HB	2.01	0.60
44:BL:12:GLU:N	44:BL:12:GLU:OE2	2.34	0.60
44:BL:103:THR:HG22	44:BL:105:ASP:N	2.16	0.60
46:BN:12:ARG:NH2	46:BN:39:PRO:O	2.33	0.60
46:BN:92:GLU:O	46:BN:93:GLN:C	2.43	0.60
46:BN:110:ASP:CA	53:BU:88:LYS:HZ3	2.07	0.60
48:BP:8:GLU:CG	48:BP:22:ILE:HG12	2.31	0.60
51:BS:20:VAL:HG11	51:BS:32:TYR:CG	2.36	0.60
51:BS:32:TYR:N	51:BS:32:TYR:CD1	2.66	0.60
52:BT:9:VAL:HG13	52:BT:56:VAL:HG22	1.83	0.60
52:BT:104:LYS:O	52:BT:105:ALA:CB	2.49	0.60
53:BU:60:GLY:O	53:BU:61:LYS:C	2.44	0.60
55:BW:55:ILE:O	55:BW:57:ARG:N	2.34	0.60
56:BX:7:ARG:O	56:BX:8:THR:HG23	2.01	0.60
1:AB:82:G:H2'	1:AB:83:G:C8	2.28	0.60
1:AB:97:G:N7	1:AB:98:G:N7	2.49	0.60
1:AB:99:A:H5''	1:AB:99:A:H8	1.67	0.60
2:AA:117:G:O3'	31:A7:22:MET:HE1	2.02	0.60
2:AA:281:G:N2	2:AA:282:A:C8	2.69	0.60
2:AA:296:C:O2'	2:AA:297:C:C5'	2.47	0.60
2:AA:358:U:O2	2:AA:358:U:H2'	2.00	0.60
2:AA:442:G:N3	6:AF:46:TYR:OH	2.29	0.60
2:AA:450:G:N2	2:AA:454:A:C2	2.68	0.60
2:AA:573:G:N2	2:AA:2029:G:H21	1.99	0.60
2:AA:660:G:C4	2:AA:661:C:C5	2.89	0.60
2:AA:684:G:C6	2:AA:775:G:C8	2.89	0.60
2:AA:772:C:H2'	2:AA:773:U:H6	1.65	0.60
2:AA:866:A:C2	2:AA:867:C:C6	2.90	0.60
2:AA:929:G:C2'	23:AX:37:LEU:HD13	2.30	0.60
2:AA:1022:G:C5	2:AA:1139:G:C6	2.89	0.60
2:AA:1085:A:OP2	9:AI:36:PRO:HB2	2.01	0.60
2:AA:1142:U:C5	2:AA:142(A):A:H5'	2.35	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1238:G:N1	2:AA:1240:U:H5	2.00	0.60
2:AA:1324:G:H4'	2:AA:1616:A:H62	1.65	0.60
2:AA:1473:G:H2'	2:AA:1474:C:C6	2.35	0.60
2:AA:1639:U:H2'	2:AA:1640:C:H5'	1.83	0.60
2:AA:1650:G:C2'	2:AA:1651:G:O5'	2.50	0.60
2:AA:1782:C:C5'	2:AA:1783:A:OP2	2.44	0.60
2:AA:1814:G:C3'	2:AA:1815:A:H8	2.14	0.60
2:AA:2111:C:H2'	2:AA:2117:A:N7	2.16	0.60
2:AA:2176:A:C5	2:AA:2177:C:C5	2.89	0.60
2:AA:2325:G:H2'	2:AA:2326:C:C6	2.36	0.60
2:AA:2422:A:H2'	2:AA:2424:C:C5	2.34	0.60
2:AA:2448:A:OP2	2:AA:2499:C:OP2	2.20	0.60
2:AA:2476:A:N7	2:AA:2477:C:C6	2.69	0.60
2:AA:2525:G:C2	2:AA:2539:C:N3	2.70	0.60
2:AA:2552:U:C2	2:AA:2554:U:H5''	2.37	0.60
2:AA:2583:G:C4	2:AA:2584:U:O2	2.54	0.60
2:AA:2606:C:H5'	2:AA:2606:C:C6	2.32	0.60
2:AA:2703:C:H5	2:AA:2704:C:N3	1.99	0.60
2:AA:2717:G:H3'	2:AA:2717:G:P	2.41	0.60
2:AA:2735:G:C6	2:AA:2770:G:N2	2.69	0.60
2:AA:2807:G:H2'	2:AA:2808:U:C6	2.35	0.60
2:AA:2826:A:C6	2:AA:2827:C:C6	2.89	0.60
3:AC:131:LEU:HB3	3:AC:136:LEU:HB2	1.81	0.60
6:AF:93:LYS:CG	6:AF:96:LYS:HE3	2.31	0.60
6:AF:232:LEU:C	6:AF:233:THR:CG2	2.74	0.60
8:AH:25:VAL:HB	8:AH:32:LEU:CD2	2.31	0.60
9:AJ:78:ARG:NH1	9:AJ:85:LEU:HD22	2.16	0.60
11:AL:36:MET:HE1	11:AL:40:LYS:CD	2.31	0.60
11:AL:107:GLU:HA	11:AL:110:LYS:HD2	1.83	0.60
12:AM:50:GLU:HB3	12:AM:134:GLU:OE2	2.00	0.60
15:AP:42:TYR:HB3	21:AV:119:ASN:OD1	2.00	0.60
18:AS:35:ILE:O	18:AS:39:THR:HB	2.01	0.60
21:AV:6:LYS:H	21:AV:7:PRO:CD	2.14	0.60
21:AV:103:ARG:O	21:AV:141:MET:SD	2.59	0.60
22:AW:45:ARG:HH21	22:AW:49:LEU:HG	1.65	0.60
26:A2:69:ILE:HG21	26:A2:89:ASN:N	2.17	0.60
29:A5:46:CYS:HB3	29:A5:47:PRO:HD2	1.83	0.60
30:A6:11:LYS:NZ	32:A8:35:GLY:N	2.48	0.60
34:BA:82:U:H2'	34:BA:83:U:O4'	2.01	0.60
34:BA:102:G:H2'	34:BA:103:C:O4'	2.01	0.60
34:BA:565:U:H3'	34:BA:566:G:C8	2.37	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:642:A:H2	43:BK:113:SER:O	1.84	0.60
34:BA:662:G:O2'	34:BA:836:G:H5''	2.00	0.60
34:BA:728:A:C8	50:BR:54:ARG:NH1	2.66	0.60
34:BA:752:G:OP2	34:BA:752:G:C8	2.54	0.60
34:BA:955:U:H2'	34:BA:956:U:H6	1.65	0.60
34:BA:1049:U:C6	34:BA:1201:A:H5'	2.36	0.60
34:BA:1120:G:O2'	34:BA:1121:U:H5'	2.01	0.60
34:BA:1289:A:C2'	34:BA:1290:G:O5'	2.49	0.60
34:BA:1329:A:H2'	34:BA:1330:U:O4'	2.00	0.60
34:BA:1406:U:O2	34:BA:1407:C:C6	2.54	0.60
34:BA:1514:C:O2'	34:BA:1515:C:H5'	2.01	0.60
35:BB:30:G:H1	35:BB:40:C:N4	1.98	0.60
35:BC:37:G:N2	36:B1:60:A:C5	2.69	0.60
36:B1:14:U:P	36:B1:38:C:N4	2.74	0.60
37:BE:42:ILE:CG2	37:BE:43:ASP:N	2.63	0.60
37:BE:102:LEU:HD12	37:BE:102:LEU:N	2.16	0.60
39:BG:153:ARG:HD2	39:BG:181:MET:HE1	1.81	0.60
40:BH:80:ILE:HD11	40:BH:91:LEU:HB3	1.81	0.60
41:BI:26:ILE:O	41:BI:30:LEU:CD1	2.48	0.60
43:BK:82:HIS:O	43:BK:137:VAL:HG13	2.00	0.60
43:BK:109:ILE:O	43:BK:136:GLU:HB2	2.01	0.60
44:BL:10:ARG:C	44:BL:104:ARG:HH21	2.08	0.60
44:BL:51:ARG:O	44:BL:53:VAL:N	2.34	0.60
44:BL:114:TYR:N	44:BL:114:TYR:CD2	2.69	0.60
46:BN:69:ALA:O	46:BN:72:ALA:N	2.34	0.60
47:BO:38:THR:C	47:BO:39:VAL:HG23	2.25	0.60
47:BO:79:GLU:HB3	47:BO:80:HIS:CE1	2.36	0.60
47:BO:119:LYS:C	47:BO:121:GLY:N	2.53	0.60
48:BP:8:GLU:HG3	48:BP:22:ILE:CD1	2.30	0.60
48:BP:73:GLU:OE2	48:BP:74:VAL:N	2.34	0.60
49:BQ:26:ARG:C	49:BQ:28:GLY:H	2.09	0.60
49:BQ:42:ILE:C	49:BQ:44:LEU:N	2.57	0.60
50:BR:55:GLY:O	50:BR:56:LEU:C	2.43	0.60
51:BS:49:LEU:HD11	51:BS:51:VAL:CG2	2.31	0.60
52:BT:5:VAL:CA	52:BT:59:ILE:O	2.49	0.60
52:BT:27:PHE:C	52:BT:35:VAL:HG13	2.26	0.60
54:BV:16:LEU:O	54:BV:19:VAL:HG12	2.02	0.60
56:BX:3:LYS:HB3	56:BX:14:TRP:CG	2.36	0.60
1:AB:34:U:N3	1:AB:48:A:C2	2.69	0.60
1:AB:59:A:C2'	1:AB:60:C:H5'	2.32	0.60
1:AB:73:A:O4'	1:AB:73:A:OP2	2.19	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:117:G:C2	2:AA:119:A:N6	2.69	0.60
2:AA:177:G:H2'	2:AA:178:G:OP1	2.00	0.60
2:AA:191:A:H8	2:AA:191:A:O5'	1.83	0.60
2:AA:205:G:HO2'	2:AA:206:U:P	2.23	0.60
2:AA:237:C:C4	2:AA:238:C:C5	2.90	0.60
2:AA:319:C:C4	2:AA:320:A:N7	2.70	0.60
2:AA:533:G:OP1	25:A1:24:PHE:CB	2.49	0.60
2:AA:556:G:H2'	2:AA:557:U:O4'	2.01	0.60
2:AA:582:G:H1	2:AA:1258:C:N4	1.98	0.60
2:AA:684:G:OP1	31:A7:16:HIS:CE1	2.54	0.60
2:AA:722:A:O2'	2:AA:723:G:C5'	2.50	0.60
2:AA:838:C:O2'	2:AA:839:U:O5'	2.19	0.60
2:AA:929:G:C2'	23:AX:43:ILE:HG13	2.30	0.60
2:AA:929:G:O3'	23:AX:37:LEU:HD21	2.00	0.60
2:AA:996:A:N1	2:AA:997:G:C5	2.69	0.60
2:AA:1020:A:H4'	12:AM:49:ARG:CZ	2.32	0.60
2:AA:1021:A:N3	2:AA:1123:C:OP1	2.34	0.60
2:AA:1142:U:H3'	2:AA:142(A):A:C5'	2.32	0.60
2:AA:1217:C:N4	2:AA:1218:C:H41	1.99	0.60
2:AA:1365:A:C5'	28:A4:3:LYS:HD2	2.27	0.60
2:AA:1366:A:H2'	2:AA:1367:A:H8	1.66	0.60
2:AA:1612:C:C2	31:A7:3:ARG:NH1	2.69	0.60
2:AA:1673:U:O2'	2:AA:1674:G:O5'	2.19	0.60
2:AA:1698:A:H1'	2:AA:1700:A:O5'	2.01	0.60
2:AA:1887:C:C2'	2:AA:1888:G:O5'	2.49	0.60
2:AA:1993:U:C2'	2:AA:1994:C:C5'	2.76	0.60
2:AA:2175:C:H2'	2:AA:2176:A:C8	2.35	0.60
2:AA:2322:A:C2	2:AA:2323:G:O4'	2.54	0.60
2:AA:2400:G:N2	2:AA:2417:C:C2	2.69	0.60
2:AA:2462:U:C4	2:AA:2463:C:C4	2.89	0.60
2:AA:2617:C:H1'	5:AE:245:ARG:HH22	1.66	0.60
2:AA:2720:U:H2'	2:AA:2721:A:H8	1.65	0.60
2:AA:2829:C:H2'	2:AA:2830:G:H8	1.66	0.60
2:AA:2832:U:C1'	2:AA:2834:G:H21	2.12	0.60
2:AA:2889:C:H2'	2:AA:2891:G:C8	2.36	0.60
3:AC:27:HIS:O	3:AC:31:GLU:HG3	2.01	0.60
4:AD:88:ALA:HB1	4:AD:90:ILE:HD11	1.82	0.60
4:AD:90:ILE:CG2	4:AD:91:ALA:N	2.63	0.60
4:AD:213:LYS:O	4:AD:214:MET:CB	2.49	0.60
5:AE:70:VAL:HG22	5:AE:296:VAL:O	2.02	0.60
5:AE:271:ILE:HG22	5:AE:272:GLY:N	2.15	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:213:ALA:CB	6:AF:218:VAL:CG2	2.72	0.60
7:AG:151:ILE:HD13	7:AG:156:ARG:HH22	1.64	0.60
8:AH:26:LYS:NZ	8:AH:33:THR:CG2	2.65	0.60
8:AH:104:LEU:HB2	8:AH:151:ARG:NH1	2.16	0.60
8:AH:158:GLY:O	8:AH:159:LYS:CB	2.49	0.60
9:AI:63:LEU:CD2	9:AI:118:LEU:HD13	2.31	0.60
9:AI:115:LYS:O	9:AI:119:GLU:HG3	2.02	0.60
10:AK:93:ILE:CG1	10:AK:121:ILE:H	2.15	0.60
11:AL:73:PRO:HG2	11:AL:78:LEU:HD21	1.83	0.60
13:AN:60:ALA:HA	13:AN:87:ILE:HD13	1.83	0.60
13:AN:64:ARG:NH1	17:AR:24:LYS:HG3	2.16	0.60
14:AO:120:LEU:HD12	14:AO:121:ILE:C	2.26	0.60
14:AO:142:LEU:O	14:AO:144:ASP:N	2.34	0.60
16:AQ:31:LYS:HZ2	16:AQ:99:GLU:HB2	1.65	0.60
19:AT:9:HIS:CE1	19:AT:61:GLU:CD	2.79	0.60
19:AT:55:GLN:NE2	19:AT:57:THR:HG23	2.16	0.60
21:AV:46:GLN:NE2	21:AV:50:GLY:CA	2.54	0.60
21:AV:123:VAL:HA	21:AV:161:ALA:HB3	1.80	0.60
21:AV:149:ALA:HB3	21:AV:164:PRO:C	2.26	0.60
22:AW:61:GLY:O	22:AW:64:GLY:N	2.34	0.60
26:A2:50:ASP:CG	26:A2:53:LYS:HE3	2.27	0.60
31:A7:21:ARG:HB3	31:A7:31:LEU:CD1	2.32	0.60
31:A7:34:ARG:HD2	31:A7:42:LEU:HD21	1.82	0.60
32:A8:26:LYS:CG	32:A8:45:GLY:H	2.15	0.60
34:BA:69:G:H1	34:BA:99:C:H42	1.47	0.60
34:BA:283:C:N3	34:BA:284:G:N7	2.49	0.60
34:BA:308:C:H2'	34:BA:309:G:C5'	2.32	0.60
34:BA:357:G:C2'	34:BA:358:U:H5'	2.32	0.60
34:BA:609:A:OP1	51:BS:18:ARG:NH2	2.34	0.60
34:BA:690:G:H2'	34:BA:691:G:O4'	2.01	0.60
34:BA:703:G:OP2	34:BA:703:G:H8	1.84	0.60
34:BA:767:A:H8	34:BA:767:A:O5'	1.84	0.60
34:BA:793:U:O2	34:BA:1516:G:H4'	2.01	0.60
34:BA:985:C:H2'	34:BA:986:A:H8	1.66	0.60
34:BA:995:C:O2'	49:BQ:4:LYS:HE2	2.02	0.60
34:BA:998:G:H2'	34:BA:999:C:H5'	1.81	0.60
34:BA:1116:C:C2	34:BA:1117:G:C8	2.88	0.60
35:BB:60:C:C5'	35:BB:61:C:P	2.83	0.60
36:B1:65:U:O3'	36:B1:66:G:H8	1.85	0.60
38:BF:11:ARG:HG3	38:BF:11:ARG:NH1	2.16	0.60
38:BF:193:TYR:N	38:BF:193:TYR:CD2	2.70	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:23:ILE:HG13	45:BM:85:LEU:HD22	1.81	0.60
46:BN:85:ARG:NE	46:BN:113:PRO:HD3	2.16	0.60
48:BP:13:LYS:CA	48:BP:44:ARG:NE	2.62	0.60
49:BQ:11:LYS:O	49:BQ:12:ARG:HB2	2.01	0.60
49:BQ:48:ALA:O	49:BQ:49:HIS:C	2.42	0.60
53:BU:38:GLU:O	53:BU:42:ARG:CG	2.48	0.60
54:BV:20:LEU:HD12	54:BV:20:LEU:C	2.26	0.60
55:BW:57:ARG:C	55:BW:59:ALA:N	2.57	0.60
1:AB:19:G:OP2	7:AG:149:ARG:NH1	2.32	0.60
1:AB:100:G:C5	1:AB:101:A:N7	2.70	0.60
2:AA:219:G:H2'	2:AA:220:G:C8	2.36	0.60
2:AA:270(W):G:H2'	2:AA:270(X):G:C8	2.37	0.60
2:AA:294:A:H4'	20:AU:15:PRO:HD2	1.84	0.60
2:AA:463:G:N2	2:AA:466:A:OP2	2.35	0.60
2:AA:529:A:C2	2:AA:2022:U:C5'	2.85	0.60
2:AA:542:C:C2	2:AA:543:C:C5	2.89	0.60
2:AA:567:A:C2	2:AA:568:U:N1	2.70	0.60
2:AA:627:A:C4	2:AA:637:A:N3	2.70	0.60
2:AA:643:A:O2'	2:AA:644:A:C8	2.55	0.60
2:AA:647:G:H1'	2:AA:2351:G:OP1	2.01	0.60
2:AA:727:A:H2'	2:AA:728:G:O5'	2.01	0.60
2:AA:747:U:O2	2:AA:2015:A:H2	1.84	0.60
2:AA:830:G:N7	2:AA:2448:A:C8	2.69	0.60
2:AA:917:A:H2'	2:AA:918:A:H4'	1.83	0.60
2:AA:919:G:C2	2:AA:2268:A:H5''	2.34	0.60
2:AA:941:A:C2	2:AA:942:G:N3	2.70	0.60
2:AA:987:G:O6	2:AA:988:A:C5	2.55	0.60
2:AA:1135:C:O2'	2:AA:1136:G:C5'	2.47	0.60
2:AA:1263:U:N3	2:AA:1264:G:N2	2.49	0.60
2:AA:1324:G:C2	2:AA:1328:G:N2	2.69	0.60
2:AA:1379:A:N3	2:AA:1379:A:C2'	2.64	0.60
2:AA:1697:G:H3'	2:AA:1698:A:H5'	1.80	0.60
2:AA:1789:A:H5''	2:AA:1790:C:OP2	2.01	0.60
2:AA:1947:C:N3	2:AA:1948:G:C8	2.70	0.60
2:AA:1977:A:C2'	2:AA:1978:A:C8	2.74	0.60
2:AA:2104:G:C2	2:AA:2105:C:C2	2.89	0.60
2:AA:2194:G:N3	2:AA:2194:G:H2'	2.14	0.60
2:AA:2210:G:H4'	2:AA:2211:G:O5'	2.02	0.60
2:AA:2219:G:OP1	4:AD:184:LEU:CD2	2.50	0.60
2:AA:2244:U:H1'	2:AA:2434:A:C5	2.36	0.60
2:AA:2373:G:H1	2:AA:2380:C:H42	0.73	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2488:A:C6	2:AA:2489:G:N7	2.69	0.60
2:AA:2492:U:C2'	2:AA:2493:U:O5'	2.48	0.60
2:AA:2653:U:H2'	2:AA:2654:A:N7	2.16	0.60
2:AA:2771:C:H2'	2:AA:2772:C:C6	2.36	0.60
2:AA:2831:G:O4'	2:AA:2883:A:C2	2.54	0.60
2:AA:2848:G:N2	2:AA:2867:G:N3	2.49	0.60
3:AC:48:GLY:CA	3:AC:210:ARG:NH1	2.64	0.60
4:AD:223:ASN:O	4:AD:224:VAL:O	2.20	0.60
5:AE:44:TYR:CD1	5:AE:308:VAL:HA	2.36	0.60
6:AF:6:TYR:CG	6:AF:139:VAL:O	2.54	0.60
6:AF:83:ALA:C	6:AF:84:VAL:CG2	2.75	0.60
6:AF:206:ASN:C	6:AF:207:LEU:HG	2.27	0.60
6:AF:230:GLY:C	6:AF:231:ARG:HG3	2.26	0.60
6:AF:244:ALA:O	6:AF:245:GLU:C	2.45	0.60
9:AI:7:ILE:CD1	11:AL:118:ALA:CA	2.78	0.60
9:AI:63:LEU:HD13	9:AI:66:PHE:CZ	2.36	0.60
9:AI:109:GLU:O	9:AI:113:GLU:HG3	2.01	0.60
9:AJ:86:LYS:HD2	11:AL:10:LYS:CE	2.24	0.60
12:AM:38:VAL:O	12:AM:103:VAL:CG1	2.48	0.60
12:AM:39:VAL:O	12:AM:40:ASN:CB	2.49	0.60
12:AM:58:GLU:O	12:AM:59:LYS:C	2.43	0.60
13:AN:25:LEU:HD12	13:AN:38:VAL:O	2.02	0.60
13:AN:87:ILE:CG2	13:AN:88:ARG:N	2.64	0.60
14:AO:123:ASP:O	14:AO:124:ASP:CG	2.44	0.60
15:AP:48:ASN:HB2	15:AP:140:TYR:CZ	2.36	0.60
16:AQ:120:GLU:HA	16:AQ:123:ILE:HB	1.82	0.60
18:AS:36:LEU:CB	18:AS:48:ALA:HB2	2.32	0.60
18:AS:86:LEU:CD2	18:AS:87:PRO:HD3	2.23	0.60
20:AU:16:LEU:HD12	20:AU:16:LEU:H	1.66	0.60
26:A2:19:VAL:CG1	26:A2:21:ARG:HH12	2.15	0.60
27:A3:36:ILE:O	27:A3:36:ILE:HG22	2.02	0.60
28:A4:6:HIS:HE1	28:A4:55:ARG:HB2	1.65	0.60
29:A5:11:THR:HB	29:A5:16:ARG:CD	2.29	0.60
32:A8:29:LYS:HD3	32:A8:36:LYS:CE	2.31	0.60
34:BA:32:A:C2'	34:BA:33:A:O4'	2.49	0.60
34:BA:192:U:C2	34:BA:193:C:C5	2.90	0.60
34:BA:723:U:O2	34:BA:723:U:C2'	2.50	0.60
34:BA:739:C:C2'	34:BA:740:U:H5'	2.31	0.60
34:BA:761:G:H4'	52:BT:103:GLY:CA	2.30	0.60
34:BA:810:C:C2'	34:BA:811:C:O5'	2.50	0.60
34:BA:886:G:C2'	34:BA:887:G:H5'	2.31	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:894:G:C5	34:BA:895:G:N7	2.70	0.60
34:BA:985:C:N3	34:BA:1221:G:C2	2.70	0.60
34:BA:1004:A:C8	34:BA:1036:G:O6	2.39	0.60
34:BA:1129:C:H4'	34:BA:1131:G:C8	2.33	0.60
34:BA:1232:U:OP1	44:BL:126:SER:HB3	2.02	0.60
34:BA:1342:C:H1'	44:BL:124:GLN:OE1	2.01	0.60
34:BA:1394:A:H8	34:BA:1394:A:O5'	1.83	0.60
34:BA:1405:G:H21	34:BA:1517:G:N2	1.99	0.60
35:BB:18:G:N2	35:BB:57:G:N3	2.49	0.60
36:B1:55:U:H2'	36:B1:56:A:N7	2.15	0.60
37:BE:102:LEU:HB2	37:BE:176:GLU:CD	2.26	0.60
37:BE:130:ARG:HA	37:BE:130:ARG:HE	1.61	0.60
37:BE:147:LYS:HB2	37:BE:147:LYS:NZ	2.17	0.60
38:BF:141:VAL:CG1	38:BF:202:ILE:HD13	2.31	0.60
42:BJ:99:LEU:CD2	42:BJ:102:ARG:HD2	2.30	0.60
44:BL:16:ARG:HD3	44:BL:64:THR:OG1	2.01	0.60
50:BR:74:ASP:C	50:BR:76:GLU:H	2.08	0.60
52:BT:75:ARG:HG3	52:BT:75:ARG:NH1	2.02	0.60
53:BU:21:LYS:HZ3	53:BU:23:LYS:HB2	1.65	0.60
54:BV:2:PRO:O	54:BV:3:ARG:O	2.19	0.60
55:BW:16:HIS:O	55:BW:17:ARG:C	2.43	0.60
56:BX:18:TYR:N	56:BX:18:TYR:CD1	2.59	0.60
1:AB:17:C:H3'	1:AB:18:G:H8	1.66	0.60
2:AA:75:G:O3'	22:AW:51:LYS:NZ	2.29	0.60
2:AA:154:G:C6	2:AA:155:C:H1'	2.36	0.60
2:AA:161:U:OP1	2:AA:161:U:C5	2.55	0.60
2:AA:171:G:H2'	2:AA:172:C:C6	2.35	0.60
2:AA:182:A:O2'	2:AA:183:C:C5'	2.49	0.60
2:AA:265:A:N3	2:AA:266:G:C1'	2.65	0.60
2:AA:435:C:H2'	2:AA:436:C:H5'	1.83	0.60
2:AA:618:G:C8	2:AA:618(A):C:C5	2.89	0.60
2:AA:649:G:O3'	32:A8:17:THR:HG21	2.01	0.60
2:AA:703:U:H5''	2:AA:704:G:OP2	2.02	0.60
2:AA:881:G:N2	2:AA:896:A:N1	2.47	0.60
2:AA:921:G:H22	27:A3:23:VAL:HG11	1.66	0.60
2:AA:1015:G:H2'	2:AA:1016:G:C8	2.36	0.60
2:AA:1022:G:C4	2:AA:1139:G:C2	2.89	0.60
2:AA:1023:U:OP1	2:AA:1025:G:N2	2.34	0.60
2:AA:1063:G:C5'	11:AL:88:GLY:HA3	2.32	0.60
2:AA:1144:G:C5	2:AA:1145:C:C4	2.89	0.60
2:AA:1317:A:C5	2:AA:1318:C:C5	2.89	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1344:G:H2'	2:AA:1345:C:OP1	2.01	0.60
2:AA:1480:G:O6	2:AA:1513:C:N3	2.34	0.60
2:AA:1510:A:C5'	2:AA:1511:A:OP2	2.49	0.60
2:AA:1534:G:C2	2:AA:1535:U:H5'	2.37	0.60
2:AA:1640:C:C2'	2:AA:1641:A:O5'	2.49	0.60
2:AA:1800:C:C2'	2:AA:1801:G:H5''	2.31	0.60
2:AA:1908:C:N4	2:AA:1922:G:H1	1.97	0.60
2:AA:1943:U:C1'	2:AA:1945:G:C5'	2.76	0.60
2:AA:1956:U:O2	2:AA:1957:C:O4'	2.20	0.60
2:AA:2018:G:N2	2:AA:2019:A:C1'	2.65	0.60
2:AA:2043:C:O2	2:AA:2044:C:H6	1.83	0.60
2:AA:2209:C:O4'	4:AD:149:ARG:NH2	2.34	0.60
2:AA:2419:U:O4	32:A8:31:HIS:CE1	2.55	0.60
2:AA:2432:A:N3	2:AA:2432:A:H2'	2.17	0.60
2:AA:2626:C:C2	2:AA:2627:G:N7	2.70	0.60
2:AA:2737:G:C2	2:AA:2768:C:N3	2.69	0.60
2:AA:2808:U:C2'	2:AA:2810:A:OP1	2.49	0.60
2:AA:2818:G:H4'	2:AA:2837:G:O4'	2.01	0.60
2:AA:2841:C:C2	2:AA:2842:G:N7	2.70	0.60
2:AA:2900:A:H2'	2:AA:2901:C:H6	1.66	0.60
4:AD:85:ASN:CG	4:AD:86:ARG:CZ	2.75	0.60
4:AD:208:GLY:CA	4:AD:210:LYS:HZ1	2.15	0.60
6:AF:89:ALA:C	6:AF:90:HIS:CG	2.79	0.60
6:AF:165:ASP:O	6:AF:168:ARG:N	2.35	0.60
6:AF:205:ARG:HG2	6:AF:212:VAL:CB	2.30	0.60
7:AG:88:LEU:O	7:AG:88:LEU:HD23	2.02	0.60
8:AH:102:LEU:HD21	8:AH:114:ILE:CB	2.30	0.60
9:AI:103:LYS:HD3	9:AI:114:ILE:CG1	2.31	0.60
11:AL:72:THR:CG2	11:AL:115:ASP:H	2.15	0.60
11:AL:109:ALA:HB2	11:AL:128:ILE:CD1	2.31	0.60
14:AO:66:VAL:HB	14:AO:67:ARG:NE	2.15	0.60
14:AO:94:ARG:HE	14:AO:118:LEU:CB	2.14	0.60
16:AQ:41:LYS:HB3	16:AQ:42:HIS:CE1	2.37	0.60
16:AQ:119:GLN:O	16:AQ:120:GLU:C	2.41	0.60
18:AS:22:ASP:O	18:AS:25:ARG:HD2	2.01	0.60
20:AU:28:SER:HB3	20:AU:99:THR:OG1	2.02	0.60
23:AX:45:GLY:O	23:AX:46:ASN:C	2.45	0.60
25:A1:20:ARG:CG	25:A1:39:LEU:HD11	2.31	0.60
25:A1:33:ARG:C	25:A1:35:ALA:H	2.09	0.60
28:A4:18:GLY:H	28:A4:33:VAL:HB	1.66	0.60
29:A5:43:HIS:C	29:A5:44:HIS:HD1	2.10	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:A8:12:ARG:HD2	32:A8:13:ARG:HD2	1.83	0.60
34:BA:21:G:H2'	34:BA:22:G:C8	2.33	0.60
34:BA:80:G:H3'	34:BA:81:U:C5'	2.29	0.60
34:BA:307:C:O2	34:BA:307:C:H2'	1.99	0.60
34:BA:379:C:N4	34:BA:384:G:H1	1.97	0.60
34:BA:740:U:O2'	34:BA:741:G:H5'	2.01	0.60
34:BA:862:C:C5	34:BA:863:U:H5	2.20	0.60
34:BA:934:C:N4	34:BA:1344:C:C2	2.70	0.60
34:BA:947:G:N3	34:BA:948:C:C6	2.70	0.60
34:BA:1005:A:O2'	34:BA:1006:C:H5'	2.01	0.60
34:BA:1085:U:H6	34:BA:1094:G:H22	1.48	0.60
34:BA:1107:C:C2'	34:BA:1108:G:H5'	2.28	0.60
34:BA:1217:C:O2'	34:BA:1218:C:H5'	2.01	0.60
34:BA:1361:G:C8	34:BA:1361:G:C3'	2.80	0.60
34:BA:1498:U:H2'	34:BA:1498:U:O2	2.00	0.60
35:BB:15:G:O5'	35:BB:15:G:C8	2.52	0.60
35:BB:62:A:C2'	35:BB:63:C:O5'	2.50	0.60
35:BB:67:A:C6	35:BB:68:U:O4	2.55	0.60
35:BB:72:C:N3	35:BB:73:A:N7	2.49	0.60
35:BC:37:G:C6	35:BC:38:A:N6	2.70	0.60
38:BF:89:GLU:O	38:BF:90:GLU:C	2.44	0.60
39:BG:205:GLU:O	39:BG:208:SER:HB3	2.02	0.60
40:BH:32:VAL:CG1	40:BH:33:VAL:N	2.65	0.60
40:BH:63:ARG:O	40:BH:66:MET:HG2	2.01	0.60
40:BH:141:GLN:HG3	40:BH:143:ARG:NH2	2.16	0.60
42:BJ:31:MET:HG2	42:BJ:32:ARG:N	2.14	0.60
43:BK:89:PRO:HA	43:BK:92:ARG:NH2	2.16	0.60
45:BM:10:GLY:CA	45:BM:16:LEU:HD21	2.17	0.60
45:BM:56:HIS:C	45:BM:58:ASP:H	2.09	0.60
46:BN:66:LEU:O	46:BN:67:ASP:C	2.44	0.60
47:BO:89:ARG:C	47:BO:90:VAL:HG23	2.26	0.60
48:BP:37:THR:OG1	48:BP:59:TYR:CG	2.49	0.60
50:BR:3:ILE:HD12	50:BR:3:ILE:N	2.16	0.60
52:BT:17:LYS:HZ1	52:BT:47:PRO:C	2.10	0.60
1:AB:89(A):A:C3'	1:AB:90:C:H5'	2.32	0.60
2:AA:31:C:H5''	2:AA:1239:G:OP1	2.01	0.60
2:AA:38:A:H1'	6:AF:46:TYR:CE2	2.37	0.60
2:AA:191:A:H2'	2:AA:192:C:O4'	2.01	0.60
2:AA:204:A:O2'	2:AA:205:G:C4'	2.50	0.60
2:AA:248:G:C2	2:AA:2431:U:H5''	2.36	0.60
2:AA:278:A:N1	2:AA:362:U:C4	2.70	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:449:A:C2	2:AA:450:G:C8	2.90	0.60
2:AA:466:A:O2'	2:AA:467:G:H5'	2.02	0.60
2:AA:721:C:C2	2:AA:722:A:C8	2.90	0.60
2:AA:753:C:C2'	2:AA:754:C:O5'	2.50	0.60
2:AA:774:A:C1'	2:AA:775:G:C8	2.84	0.60
2:AA:815:C:H2'	2:AA:816:C:H5'	1.83	0.60
2:AA:866:A:C2'	2:AA:867:C:O5'	2.48	0.60
2:AA:1032:A:OP1	33:A9:8:LYS:HG3	2.00	0.60
2:AA:1085:A:OP1	9:AI:34:ALA:C	2.45	0.60
2:AA:1140:C:N4	12:AM:49:ARG:CZ	2.65	0.60
2:AA:1165:U:C2	2:AA:1166:C:C5	2.90	0.60
2:AA:1208:C:H2'	2:AA:1209:G:C8	2.33	0.60
2:AA:1214:A:C2	2:AA:1215:G:C4	2.89	0.60
2:AA:1280:G:O2'	2:AA:1281:G:C5'	2.49	0.60
2:AA:1428:C:C4	2:AA:1569:A:H5''	2.36	0.60
2:AA:1432:C:C2	2:AA:1562:A:N1	2.70	0.60
2:AA:1433:U:O2	2:AA:1560:G:O6	2.19	0.60
2:AA:1449:A:C2	2:AA:449(A):G:C4	2.90	0.60
2:AA:1486:A:O2'	2:AA:1487:G:H5'	2.02	0.60
2:AA:1665:A:O2'	13:AN:67:ARG:NH1	2.34	0.60
2:AA:1670:C:C2'	2:AA:1671:U:C5'	2.78	0.60
2:AA:1706:U:H2'	2:AA:1706:U:O2	2.01	0.60
2:AA:1710:C:H1'	2:AA:2858:C:H42	1.66	0.60
2:AA:1808:U:O2	2:AA:1808:U:C2'	2.50	0.60
2:AA:1899:G:C2'	2:AA:1900:A:OP2	2.50	0.60
2:AA:1990:C:C2	2:AA:1991:U:O2	2.55	0.60
2:AA:2015:A:H2'	2:AA:2016:U:H6	1.67	0.60
2:AA:2035:G:O2'	2:AA:2036:C:OP1	2.14	0.60
2:AA:2121:G:C8	2:AA:2121:G:OP2	2.54	0.60
2:AA:2136:C:C4	2:AA:2154:G:N1	2.69	0.60
2:AA:2213:U:H5'	2:AA:2215:G:C8	2.37	0.60
2:AA:2360:A:H2'	2:AA:2361:A:O5'	2.00	0.60
2:AA:2711:A:OP1	2:AA:712(A):A:OP2	2.19	0.60
2:AA:2830:G:H2'	2:AA:2883:A:N1	2.17	0.60
2:AA:2847:U:C5	2:AA:2848:G:N7	2.70	0.60
2:AA:2872:G:C2	2:AA:2873:A:C6	2.90	0.60
3:AC:33:ALA:HB1	3:AC:39:GLU:CB	2.32	0.60
3:AC:33:ALA:CB	3:AC:39:GLU:HB3	2.31	0.60
3:AC:100:ILE:C	3:AC:126:LYS:HD3	2.27	0.60
5:AE:44:TYR:HB3	5:AE:74:GLU:OE1	2.01	0.60
5:AE:267:ARG:C	5:AE:297:LYS:HG3	2.26	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:103:ASN:CB	6:AF:106:GLU:OE2	2.45	0.60
8:AH:116:PRO:HD3	8:AH:122:ILE:HD12	1.84	0.60
9:AI:111:ALA:O	9:AI:115:LYS:HG3	2.00	0.60
9:AJ:26:GLU:O	9:AJ:30:GLY:N	2.34	0.60
9:AJ:103:LYS:HB2	9:AJ:114:ILE:HD13	1.84	0.60
10:AK:103:GLN:HA	10:AK:108:LEU:O	2.02	0.60
10:AK:124:LEU:HD12	10:AK:145:VAL:HG12	1.84	0.60
11:AL:20:PRO:CG	11:AL:23:PRO:HG2	2.31	0.60
12:AM:29:GLN:O	12:AM:30:ALA:C	2.44	0.60
12:AM:108:PRO:HB2	12:AM:109:TYR:CE1	2.37	0.60
14:AO:117:GLU:CA	14:AO:136:ALA:O	2.45	0.60
14:AO:122:ALA:O	14:AO:142:LEU:HG	2.01	0.60
15:AP:10:ILE:O	15:AP:11:LYS:CD	2.50	0.60
16:AQ:36:ALA:O	16:AQ:105:GLY:HA3	2.01	0.60
17:AR:9:CYS:C	17:AR:11:THR:N	2.56	0.60
17:AR:10:GLY:HA3	17:AR:53:ASP:N	2.16	0.60
20:AU:51:LEU:HB3	20:AU:97:ARG:HE	1.67	0.60
20:AU:90:PRO:C	20:AU:91:LEU:HD23	2.25	0.60
20:AU:103:LEU:CD1	20:AU:113:GLU:HB3	2.31	0.60
21:AV:19:ILE:H	21:AV:36:ARG:CG	2.10	0.60
21:AV:19:ILE:H	21:AV:36:ARG:H	1.50	0.60
21:AV:70:GLN:C	21:AV:72:ASP:N	2.51	0.60
23:AX:13:ILE:HD13	23:AX:13:ILE:N	2.14	0.60
23:AX:20:LYS:C	23:AX:23:LEU:HG	2.27	0.60
23:AX:26:LEU:HD21	23:AX:46:ASN:HB3	1.82	0.60
26:A2:4:ILE:CG2	26:A2:12:TYR:HD2	2.15	0.60
28:A4:67:TYR:C	28:A4:68:ARG:CG	2.74	0.60
29:A5:40:LYS:NZ	29:A5:46:CYS:CB	2.64	0.60
30:A6:19:GLY:C	30:A6:42:PRO:CB	2.74	0.60
32:A8:12:ARG:HG3	32:A8:12:ARG:O	2.00	0.60
34:BA:28:G:C2	34:BA:556:C:C4	2.89	0.60
34:BA:169:C:O2'	34:BA:170:U:H5'	2.01	0.60
34:BA:198:G:H2'	34:BA:199:G:H8	1.67	0.60
34:BA:501:C:H2'	34:BA:502:G:C8	2.33	0.60
34:BA:754:C:C5'	34:BA:755:G:H8	2.03	0.60
34:BA:773:G:C6	34:BA:774:G:N7	2.70	0.60
34:BA:816:A:C2'	34:BA:817:C:OP2	2.49	0.60
34:BA:1049:U:C2	34:BA:1201:A:C8	2.90	0.60
34:BA:1099:G:N7	34:BA:1100:C:C4	2.70	0.60
34:BA:1148:U:H2'	34:BA:1149:C:O4'	2.01	0.60
34:BA:1152:A:O2'	34:BA:1153:C:C5'	2.49	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1208:C:O2'	34:BA:1209:C:H5'	2.01	0.60
34:BA:1326:C:OP2	56:BX:6:ARG:NH1	2.35	0.60
34:BA:1326:C:C4	34:BA:1327:C:N4	2.70	0.60
34:BA:1370:G:C2	34:BA:1371:G:N7	2.70	0.60
34:BA:1419:G:C2	34:BA:1420:C:C2	2.90	0.60
34:BA:1469:G:O2'	34:BA:1470:G:H5'	2.01	0.60
35:BC:44:A:C6	35:BC:45:G:N2	2.69	0.60
35:BC:52:U:H2'	35:BC:53:G:O4'	2.02	0.60
37:BE:82:ARG:HD2	37:BE:92:TYR:CZ	2.37	0.60
37:BE:168:THR:CG2	37:BE:192:SER:HA	2.31	0.60
37:BE:204:ASN:HD22	37:BE:205:ASP:N	2.00	0.60
41:BI:76:ALA:HA	41:BI:79:LEU:CD1	2.31	0.60
42:BJ:15:ASP:OD1	42:BJ:17:VAL:HB	2.02	0.60
43:BK:122:ARG:O	43:BK:123:GLU:C	2.42	0.60
44:BL:119:ALA:O	44:BL:120:ARG:HG3	2.01	0.60
45:BM:62:HIS:O	49:BQ:59:ALA:HB3	2.02	0.60
48:BP:16:ASP:HA	48:BP:19:LEU:HD11	1.84	0.60
48:BP:81:LEU:HD11	48:BP:88:ARG:CZ	2.30	0.60
48:BP:88:ARG:CG	48:BP:89:GLY:N	2.64	0.60
50:BR:15:PHE:O	50:BR:16:ALA:C	2.44	0.60
50:BR:21:ASP:O	50:BR:27:VAL:HG21	2.01	0.60
50:BR:34:LEU:O	50:BR:38:ARG:HG2	2.02	0.60
1:AB:37:C:O2	16:AQ:111:PRO:CG	2.45	0.60
2:AA:139:G:N9	2:AA:141(A):C:O2	2.34	0.60
2:AA:155:C:HO2'	2:AA:161:U:P	2.25	0.60
2:AA:176:G:N2	2:AA:177:G:H1'	2.16	0.60
2:AA:359:A:C2	2:AA:361:G:C2	2.89	0.60
2:AA:360:G:H2'	2:AA:361:G:C8	2.37	0.60
2:AA:366:C:O2	2:AA:366:C:C2'	2.48	0.60
2:AA:449:A:H2	2:AA:450:G:C4	2.16	0.60
2:AA:499:U:H6	2:AA:500:G:O4'	1.84	0.60
2:AA:530:G:O6	2:AA:2022:U:O5'	2.18	0.60
2:AA:559:G:C4	2:AA:560:C:C5	2.90	0.60
2:AA:586:A:C5	2:AA:1254:A:H2	2.20	0.60
2:AA:874:G:OP1	21:AV:172:LEU:CD1	2.50	0.60
2:AA:898:C:H3'	2:AA:899:A:C5'	2.23	0.60
2:AA:951:C:H2'	2:AA:952:G:C8	2.37	0.60
2:AA:1008:C:O2'	2:AA:1009:A:P	2.59	0.60
2:AA:1056:G:C2	2:AA:1102:C:N4	2.70	0.60
2:AA:1470:G:N2	2:AA:1522:G:C6	2.70	0.60
2:AA:1497:U:C4	2:AA:1498:C:H5	2.19	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1609:A:C5	2:AA:1616:A:C2	2.89	0.60
2:AA:1735:C:HO2'	2:AA:1741:C:H6	1.50	0.60
2:AA:1769:G:H4'	2:AA:1958:C:H5''	1.82	0.60
2:AA:1804:C:H2'	2:AA:1804:C:O2	2.02	0.60
2:AA:1805:U:N3	2:AA:1813:G:C2	2.70	0.60
2:AA:1862:G:H2'	2:AA:1863:G:C8	2.34	0.60
2:AA:2013:A:C4'	18:AS:96:ILE:HG22	2.32	0.60
2:AA:2045:C:O2	29:A5:22:HIS:NE2	2.34	0.60
2:AA:2067:G:C2	2:AA:2069:G:C8	2.90	0.60
2:AA:2180:U:C2'	2:AA:2181:G:O4'	2.50	0.60
2:AA:2305:A:H3'	2:AA:2305:A:C8	2.36	0.60
2:AA:2313:C:H5'	7:AG:72:LYS:CG	2.20	0.60
2:AA:2435:A:H2'	2:AA:2436:G:O5'	2.02	0.60
2:AA:2450:A:C2	2:AA:2451:A:C1'	2.84	0.60
2:AA:2659:G:H2'	2:AA:2661:G:OP2	2.02	0.60
2:AA:2705:A:C8	2:AA:2706:G:N7	2.70	0.60
2:AA:2805:G:H2'	2:AA:2807:G:C4'	2.31	0.60
3:AC:59:ARG:O	3:AC:199:HIS:NE2	2.33	0.60
4:AD:154:VAL:HG21	4:AD:160:SER:CA	2.24	0.60
5:AE:45:LYS:CE	5:AE:303:PRO:HG2	2.20	0.60
5:AE:68:VAL:HG13	5:AE:69:PRO:CD	2.29	0.60
5:AE:213:PRO:HG3	5:AE:235:ILE:H	1.65	0.60
5:AE:300:VAL:N	5:AE:301:PRO:CD	2.63	0.60
6:AF:200:PRO:CB	6:AF:212:VAL:HG11	2.30	0.60
7:AG:82:GLU:O	7:AG:85:GLN:HG3	2.02	0.60
8:AH:25:VAL:HG21	8:AH:74:MET:SD	2.42	0.60
8:AH:86:LEU:HD23	8:AH:148:ARG:HG2	1.83	0.60
8:AH:116:PRO:HB2	8:AH:120:LEU:C	2.27	0.60
9:AJ:78:ARG:HH11	9:AJ:85:LEU:HD22	1.67	0.60
9:AJ:81:THR:HG22	9:AJ:103:LYS:HG2	1.84	0.60
11:AL:93:LYS:HA	11:AL:96:ILE:CG1	2.32	0.60
12:AM:105:LEU:N	12:AM:105:LEU:CD2	2.65	0.60
13:AN:37:ASP:O	13:AN:61:VAL:HG13	2.02	0.60
13:AN:71:ARG:NH2	13:AN:77:ILE:CG2	2.54	0.60
14:AO:116:HIS:HB3	14:AO:118:LEU:HD11	1.83	0.60
15:AP:45:GLN:CD	15:AP:153:PRO:HB2	2.25	0.60
18:AS:30:GLU:CA	18:AS:33:ARG:CD	2.77	0.60
19:AT:8:PRO:HG3	22:AW:33:VAL:HG13	1.82	0.60
21:AV:69:VAL:HG12	21:AV:70:GLN:H	1.66	0.60
22:AW:54:ALA:O	22:AW:57:LYS:HB2	2.01	0.60
23:AX:26:LEU:CG	23:AX:28:LEU:HD11	2.32	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:36:THR:CG2	24:A0:40:LYS:HB3	2.31	0.60
24:A0:73:VAL:O	24:A0:74:LYS:C	2.44	0.60
24:A0:105:ARG:NE	24:A0:105:ARG:CA	2.63	0.60
25:A1:50:ARG:HH22	26:A2:73:LYS:C	2.10	0.60
26:A2:3:ALA:HB1	26:A2:39:PHE:HZ	1.64	0.60
27:A3:45:PHE:O	27:A3:46:LYS:HE3	2.02	0.60
32:A8:26:LYS:HG3	32:A8:45:GLY:C	2.27	0.60
33:A9:15:LYS:O	33:A9:25:VAL:HA	2.01	0.60
33:A9:17:VAL:HG21	33:A9:26:ILE:HD12	1.82	0.60
34:BA:59:A:C2	34:BA:331:G:N3	2.70	0.60
34:BA:174:C:H2'	34:BA:175:C:C6	2.37	0.60
34:BA:232:G:O2'	34:BA:233:C:H5'	2.02	0.60
34:BA:274:A:H4'	34:BA:275:G:OP1	2.02	0.60
34:BA:366:C:HO2'	34:BA:367:U:P	2.24	0.60
34:BA:418:C:H4'	34:BA:540:G:O4'	2.01	0.60
34:BA:421:U:N3	38:BF:127:ARG:NH1	2.49	0.60
34:BA:527:G:N2	34:BA:528:C:C2	2.69	0.60
34:BA:643:C:H2'	34:BA:643:C:O2	2.01	0.60
34:BA:652:U:O4	34:BA:752:G:C2'	2.49	0.60
34:BA:764:C:H2'	34:BA:765:G:N9	2.15	0.60
34:BA:1055:A:C2	34:BA:1206:G:H1'	2.37	0.60
34:BA:1135:U:N3	34:BA:1137:C:O2	2.35	0.60
34:BA:1339:A:O5'	34:BA:1339:A:H8	1.85	0.60
34:BA:1408:A:C2	34:BA:1494:G:C2	2.89	0.60
34:BA:1522:U:H2'	34:BA:1523:G:C8	2.36	0.60
35:BB:18:G:N2	35:BB:57:G:C2	2.70	0.60
37:BE:187:LEU:HA	37:BE:201:ILE:CB	2.31	0.60
37:BE:219:VAL:HA	37:BE:222:ILE:HG23	1.83	0.60
38:BF:47:LEU:CD1	38:BF:83:ARG:NH2	2.59	0.60
39:BG:35:ARG:C	39:BG:37:PRO:HD3	2.26	0.60
39:BG:58:LEU:HD22	39:BG:58:LEU:C	2.26	0.60
39:BG:177:ASP:OD2	39:BG:179:GLU:HB2	2.00	0.60
39:BG:190:ASP:N	39:BG:193:ASP:OD2	2.31	0.60
40:BH:9:LYS:O	40:BH:32:VAL:HG13	2.01	0.60
42:BJ:94:ARG:CZ	42:BJ:98:SER:OG	2.50	0.60
42:BJ:105:VAL:O	42:BJ:109:ASN:ND2	2.34	0.60
42:BJ:111:ARG:CZ	42:BJ:122:HIS:HB2	2.32	0.60
43:BK:63:LEU:CG	43:BK:65:TYR:OH	2.50	0.60
44:BL:104:ARG:O	44:BL:105:ASP:CB	2.50	0.60
46:BN:85:ARG:HE	46:BN:111:ASP:HB3	1.65	0.60
46:BN:95:ILE:CG2	46:BN:98:LEU:HD12	2.31	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BR:9:GLN:OE1	50:BR:9:GLN:HA	2.02	0.60
51:BS:61:SER:OG	51:BS:62:VAL:HG22	2.01	0.60
52:BT:22:LEU:HD12	52:BT:23:VAL:N	2.16	0.60
1:AB:65:C:C5	1:AB:108:C:C4	2.89	0.60
2:AA:12:U:H5''	2:AA:13:A:OP2	2.02	0.60
2:AA:175:G:C2	2:AA:176:G:C8	2.90	0.60
2:AA:273:G:C5	2:AA:273(A):G:N7	2.70	0.60
2:AA:481:G:H22	2:AA:507:A:H1'	1.67	0.60
2:AA:598:G:H21	6:AF:33:LYS:HE3	1.67	0.60
2:AA:612:G:C4'	2:AA:616:A:H61	2.02	0.60
2:AA:735:A:N6	2:AA:736:C:C2	2.70	0.60
2:AA:828:U:O2'	2:AA:829:A:O4'	2.18	0.60
2:AA:837:C:H42	2:AA:942:G:H1	1.48	0.60
2:AA:920:G:O2'	2:AA:921:G:C5'	2.44	0.60
2:AA:945:A:N3	2:AA:945:A:C2'	2.60	0.60
2:AA:1029:A:H2'	2:AA:1030:G:O5'	2.01	0.60
2:AA:1082:U:C1'	11:AL:118:ALA:HB2	2.32	0.60
2:AA:1444:G:H3'	2:AA:1445:C:H41	1.67	0.60
2:AA:1509:C:C6	2:AA:1509:C:H5'	2.37	0.60
2:AA:1603:A:H2'	2:AA:1604:C:C6	2.36	0.60
2:AA:1655:A:H5''	5:AE:211:GLN:HA	1.84	0.60
2:AA:1666:G:C6	2:AA:1667:G:N2	2.69	0.60
2:AA:1759:A:C2	2:AA:1760:A:C4	2.89	0.60
2:AA:1926:U:H3'	2:AA:1926:U:C6	2.37	0.60
2:AA:1992:G:O6	2:AA:1997:G:C4	2.53	0.60
2:AA:2007:C:H2'	2:AA:2008:C:C5'	2.30	0.60
2:AA:2132:U:O2	2:AA:2134:A:OP2	2.19	0.60
2:AA:2339:G:H2'	2:AA:2340:G:C8	2.35	0.60
2:AA:2462:U:C4	2:AA:2463:C:N4	2.69	0.60
2:AA:2482:G:C5	2:AA:2483:C:C6	2.90	0.60
2:AA:2680:C:C5'	5:AE:302:GLY:CA	2.80	0.60
2:AA:2686:G:C5	2:AA:2687:U:C5	2.90	0.60
2:AA:2701:C:N3	2:AA:2707:G:C6	2.70	0.60
2:AA:2714:G:H2'	2:AA:2715:C:H5'	1.84	0.60
2:AA:2731:G:N2	2:AA:2732:G:C2	2.70	0.60
3:AC:61:THR:HA	3:AC:162:GLU:HA	1.81	0.60
3:AC:110:PHE:CD1	3:AC:113:VAL:HG23	2.36	0.60
4:AD:89:ASN:CG	4:AD:199:ARG:HH21	2.10	0.60
4:AD:162:GLN:CD	4:AD:162:GLN:N	2.60	0.60
5:AE:105:HIS:H	5:AE:108:LEU:HD12	1.66	0.60
5:AE:222:ARG:NE	5:AE:233:ARG:N	2.49	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:159:ALA:O	6:AF:160:LEU:HD23	2.02	0.60
6:AF:197:SER:CB	6:AF:215:ALA:HB2	2.31	0.60
8:AH:87:GLU:CD	8:AH:162:ARG:HB2	2.27	0.60
9:AI:20:GLU:HG3	9:AJ:49:ALA:HB3	1.84	0.60
9:AJ:118:LEU:HB2	9:AJ:125:VAL:HG21	1.83	0.60
10:AK:83:ALA:HB3	10:AK:147:GLU:CG	2.32	0.60
10:AK:95:SER:C	10:AK:98:ILE:H	2.10	0.60
10:AK:114:LYS:HZ2	10:AK:133:LEU:CD2	2.15	0.60
12:AM:84:ARG:CA	12:AM:87:LEU:CD1	2.80	0.60
13:AN:19:VAL:CG1	13:AN:42:THR:O	2.39	0.60
13:AN:64:ARG:HH22	13:AN:100:GLY:HA2	1.64	0.60
14:AO:51:PHE:HD1	14:AO:51:PHE:N	2.00	0.60
14:AO:55:GLN:HE21	14:AO:56:LYS:HD3	1.66	0.60
14:AO:127:GLU:O	14:AO:128:GLY:C	2.44	0.60
15:AP:135:ALA:O	15:AP:138:ARG:HB2	2.01	0.60
16:AQ:17:ARG:NH2	16:AQ:106:LEU:CD2	2.64	0.60
16:AQ:83:LEU:O	16:AQ:84:THR:C	2.43	0.60
18:AS:24:ILE:HG22	18:AS:35:ILE:CB	2.32	0.60
18:AS:37:ARG:HH22	29:A5:48:ASN:ND2	1.99	0.60
19:AT:18:MET:HA	19:AT:23:LYS:O	2.01	0.60
21:AV:58:GLY:O	21:AV:61:THR:HG23	2.02	0.60
21:AV:174:PRO:O	21:AV:175:ARG:HG2	2.01	0.60
22:AW:62:GLU:O	22:AW:63:GLU:C	2.44	0.60
25:A1:18:LEU:O	25:A1:21:ALA:CB	2.44	0.60
25:A1:22:LYS:N	25:A1:24:PHE:CE2	2.69	0.60
25:A1:31:GLN:O	25:A1:35:ALA:CB	2.50	0.60
26:A2:33:VAL:O	26:A2:63:HIS:ND1	2.35	0.60
27:A3:14:ARG:NH1	27:A3:14:ARG:HG3	2.15	0.60
28:A4:17:GLN:HA	28:A4:33:VAL:CG1	2.31	0.60
32:A8:26:LYS:CB	32:A8:44:LYS:HA	2.31	0.60
34:BA:204:U:O2	34:BA:204:U:C2'	2.50	0.60
34:BA:256:U:H2'	34:BA:257:G:O4'	2.02	0.60
34:BA:299:G:C2	34:BA:300:A:C6	2.89	0.60
34:BA:481:G:H2'	34:BA:483:C:N4	2.17	0.60
34:BA:517:G:N2	34:BA:533:A:OP2	2.35	0.60
34:BA:665:A:C2'	34:BA:725:G:H21	2.10	0.60
34:BA:838:G:N2	34:BA:849:C:C2	2.69	0.60
34:BA:932:C:H4'	42:BJ:4:ARG:HH22	1.64	0.60
34:BA:1235:U:OP1	56:BX:3:LYS:CD	2.49	0.60
34:BA:1280:A:N9	45:BM:41:PRO:HG3	2.16	0.60
34:BA:1331:G:C2'	34:BA:1332:A:OP2	2.50	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1419:G:O2'	34:BA:1420:C:C6	2.53	0.60
34:BA:1419:G:C6	34:BA:1482:G:C6	2.90	0.60
35:BB:21:A:N6	35:BB:46:G:C2	2.70	0.60
35:BC:28:C:H2'	35:BC:29:A:H8	1.66	0.60
38:BF:120:VAL:O	38:BF:124:ILE:HG13	2.01	0.60
38:BF:182:ILE:HG23	38:BF:202:ILE:O	2.02	0.60
39:BG:93:PHE:O	39:BG:95:GLY:N	2.35	0.60
40:BH:51:VAL:O	40:BH:52:PRO:C	2.43	0.60
41:BI:83:ASP:O	41:BI:85:VAL:N	2.34	0.60
41:BI:91:VAL:HG22	53:BU:72:ARG:HH12	1.60	0.60
43:BK:92:ARG:HG2	43:BK:92:ARG:NH1	2.14	0.60
48:BP:80:ARG:HG2	48:BP:81:LEU:H	1.67	0.60
48:BP:108:ARG:HA	48:BP:108:ARG:NH1	2.07	0.60
52:BT:53:LEU:HD11	52:BT:85:VAL:HG11	1.81	0.60
54:BV:15:LEU:O	54:BV:18:LYS:N	2.35	0.60
54:BV:16:LEU:O	54:BV:19:VAL:CG1	2.50	0.60
55:BW:14:LYS:O	55:BW:16:HIS:N	2.35	0.60
55:BW:59:ALA:O	55:BW:60:GLU:C	2.45	0.60
55:BW:100:ILE:C	55:BW:102:GLY:H	2.06	0.60
2:AA:95:G:C5'	22:AW:41:GLU:OE1	2.50	0.60
2:AA:133:C:O2'	2:AA:134:C:C5'	2.50	0.60
2:AA:143:C:H6	2:AA:143:C:H3'	1.66	0.60
2:AA:146:G:C2	2:AA:147:U:C1'	2.84	0.60
2:AA:161:U:OP1	2:AA:161:U:H5	1.85	0.60
2:AA:205:G:H1'	2:AA:206:U:OP2	2.02	0.60
2:AA:262:A:H2'	2:AA:263:C:C5'	2.32	0.60
2:AA:273(B):C:C2	2:AA:363(D):G:N1	2.70	0.60
2:AA:296:C:H6	2:AA:338:G:H21	1.47	0.60
2:AA:308:G:O5'	2:AA:308:G:H8	1.85	0.60
2:AA:338:G:H8	20:AU:21:LYS:HD2	1.67	0.60
2:AA:365:C:N3	2:AA:366:C:C5	2.62	0.60
2:AA:479:A:O2'	2:AA:480:A:C5'	2.50	0.60
2:AA:483:A:C2	2:AA:484:C:C1'	2.85	0.60
2:AA:530:G:P	2:AA:530:G:C3'	2.88	0.60
2:AA:586:A:N6	2:AA:1254:A:C2	2.69	0.60
2:AA:588:U:H2'	2:AA:589:C:H6	1.66	0.60
2:AA:637:A:O2'	2:AA:638:G:N3	2.35	0.60
2:AA:724:U:H2'	2:AA:724:U:O2	2.02	0.60
2:AA:728:G:C2	2:AA:730:C:O2	2.55	0.60
2:AA:777:A:C2	2:AA:778:G:C4	2.90	0.60
2:AA:946:G:N1	2:AA:971:C:N4	2.49	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:964:C:O5'	2:AA:964:C:C6	2.48	0.60
2:AA:1034:G:H5'	33:A9:18:ARG:CZ	2.30	0.60
2:AA:1045:A:O2'	2:AA:1047:G:O4'	2.18	0.60
2:AA:1265:A:H2'	2:AA:1265:A:N3	2.17	0.60
2:AA:1268:A:H1'	2:AA:2013:A:H61	1.67	0.60
2:AA:1358:G:H3'	2:AA:1371:G:H1	1.67	0.60
2:AA:1388:G:C2	2:AA:1389:G:H1'	2.37	0.60
2:AA:1497:U:N3	2:AA:1577:C:H4'	2.17	0.60
2:AA:1520:U:H2'	2:AA:1521:G:C5'	2.25	0.60
2:AA:1566:A:O2'	2:AA:1567:A:OP1	2.17	0.60
2:AA:1598:C:C5'	19:AT:34:LYS:HB2	2.32	0.60
2:AA:1682:G:H2'	2:AA:1683:C:H6	1.67	0.60
2:AA:1787:A:N3	2:AA:1788:C:C5	2.70	0.60
2:AA:1858:G:C6	2:AA:1884:A:C2	2.89	0.60
2:AA:1927:A:H5''	2:AA:1928:A:OP2	2.02	0.60
2:AA:1935:G:H4'	2:AA:1937:A:C2	2.36	0.60
2:AA:2306:C:C4	7:AG:53:LYS:NZ	2.70	0.60
2:AA:2356:C:H4'	27:A3:17:ASN:CG	2.27	0.60
2:AA:2414:G:H2'	2:AA:2415:G:H8	1.67	0.60
2:AA:2526:G:H2'	2:AA:2527:C:O5'	2.01	0.60
2:AA:2603:G:C6	2:AA:2604:U:C5	2.90	0.60
2:AA:2621:A:O2'	5:AE:255:GLN:OE1	2.12	0.60
2:AA:2691:C:C6	2:AA:2691:C:C3'	2.85	0.60
2:AA:2720:U:O4	2:AA:2872:G:C4	2.55	0.60
2:AA:2870:C:C2'	2:AA:2871:C:O5'	2.49	0.60
3:AC:53:ARG:HB3	3:AC:55:ASP:OD2	2.02	0.60
3:AC:59:ARG:CZ	3:AC:164:ARG:NH1	2.65	0.60
3:AC:127:LEU:HB3	3:AC:131:LEU:HG	1.84	0.60
4:AD:84:PRO:C	4:AD:85:ASN:ND2	2.58	0.60
4:AD:157:ALA:C	4:AD:194:VAL:HG11	2.26	0.60
5:AE:263:GLU:C	5:AE:266:LYS:HE3	2.26	0.60
6:AF:90:HIS:H	6:AF:91:PRO:CD	2.14	0.60
6:AF:140:VAL:HB	6:AF:235:PHE:O	2.02	0.60
6:AF:240:LEU:O	6:AF:243:VAL:N	2.35	0.60
7:AG:29:HIS:HB3	7:AG:69:ILE:HG12	1.84	0.60
8:AH:122:ILE:C	8:AH:123:GLU:CD	2.69	0.60
9:AI:16:SER:CB	9:AJ:105:GLY:HA3	2.31	0.60
9:AI:110:GLU:HA	9:AI:113:GLU:OE1	2.02	0.60
11:AL:96:ILE:O	11:AL:96:ILE:HG22	2.02	0.60
12:AM:38:VAL:O	12:AM:103:VAL:CA	2.48	0.60
12:AM:53:ILE:HG22	12:AM:54:VAL:H	1.67	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:78:ILE:HG22	12:AM:79:PHE:CD1	2.37	0.60
14:AO:71:GLU:O	14:AO:74:THR:OG1	2.15	0.60
14:AO:75:LEU:O	14:AO:77:ALA:N	2.35	0.60
14:AO:101:ASP:O	14:AO:102:ASP:OD1	2.19	0.60
15:AP:51:GLU:HA	15:AP:118:ALA:CA	2.31	0.60
18:AS:21:VAL:CG2	18:AS:22:ASP:N	2.64	0.60
20:AU:28:SER:HB3	20:AU:99:THR:CG2	2.31	0.60
20:AU:48:VAL:HG12	20:AU:49:GLU:N	2.17	0.60
21:AV:35:ASP:O	21:AV:35:ASP:OD1	2.20	0.60
21:AV:40:ASP:CB	21:AV:41:ARG:NH2	2.65	0.60
22:AW:29:ASN:O	22:AW:34:GLN:OE1	2.20	0.60
22:AW:46:ILE:HD13	22:AW:46:ILE:N	2.16	0.60
24:A0:75:LEU:O	24:A0:76:VAL:C	2.45	0.60
24:A0:113:LEU:HD13	24:A0:114:VAL:H	1.67	0.60
25:A1:84:LYS:C	25:A1:86:ALA:N	2.57	0.60
26:A2:6:GLN:OE1	26:A2:10:LYS:CA	2.48	0.60
34:BA:16:A:C2	34:BA:17:U:O4'	2.55	0.60
34:BA:74:C:O2'	34:BA:75:G:H5'	2.01	0.60
34:BA:123:C:O2'	34:BA:290:C:H1'	2.02	0.60
34:BA:129(A):G:N2	34:BA:190(G):G:N7	2.49	0.60
34:BA:190(K):G:H2'	34:BA:190(L):U:H6	1.65	0.60
34:BA:237:C:P	52:BT:40:LYS:NZ	2.75	0.60
34:BA:327:A:C5	34:BA:329:A:C5	2.90	0.60
34:BA:359:U:C2'	34:BA:360:A:O5'	2.50	0.60
34:BA:486:U:C2'	34:BA:487:A:O5'	2.50	0.60
34:BA:527:G:C2	34:BA:528:C:C2	2.90	0.60
34:BA:582:U:H1'	52:BT:105:ALA:CA	2.31	0.60
34:BA:609:A:N3	34:BA:610:G:H1'	2.17	0.60
34:BA:815:A:C4	34:BA:1529:G:C5	2.90	0.60
34:BA:909:A:C2'	34:BA:910:C:C5'	2.75	0.60
34:BA:937:A:N6	34:BA:1345:U:O4	2.29	0.60
34:BA:947:G:N2	34:BA:948:C:C2	2.70	0.60
34:BA:1125:U:C5'	34:BA:1126:U:H5	2.15	0.60
34:BA:1234:C:H4'	34:BA:1364:U:H1'	1.84	0.60
34:BA:1269:A:C8	34:BA:1270:C:H1'	2.37	0.60
35:BC:14:A:C2	35:BC:22:G:N3	2.70	0.60
37:BE:153:ARG:O	37:BE:154:LEU:C	2.44	0.60
38:BF:73:PRO:HG2	38:BF:74:GLY:N	2.16	0.60
39:BG:9:CYS:O	39:BG:32:ALA:CB	2.50	0.60
39:BG:22:LYS:CB	39:BG:26:CYS:HB2	2.29	0.60
40:BH:77:PRO:CG	40:BH:78:HIS:HD2	2.13	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:118:ILE:HG22	40:BH:119:LEU:H	1.67	0.60
41:BI:6:VAL:CG1	41:BI:63:TYR:HB2	2.32	0.60
41:BI:75:LEU:HD11	41:BI:79:LEU:HD21	1.84	0.60
42:BJ:38:LEU:CA	42:BJ:41:ARG:HG3	2.27	0.60
42:BJ:100:ALA:O	42:BJ:101:LEU:C	2.45	0.60
42:BJ:111:ARG:HB3	42:BJ:111:ARG:NH1	2.12	0.60
42:BJ:146:GLU:HG2	42:BJ:149:ARG:HE	1.65	0.60
43:BK:9:MET:O	43:BK:11:THR:N	2.33	0.60
46:BN:88:GLY:O	46:BN:91:ARG:N	2.28	0.60
49:BQ:26:ARG:HD2	49:BQ:47:LEU:HD11	1.84	0.60
52:BT:59:ILE:HD12	52:BT:73:VAL:CA	2.31	0.60
53:BU:41:LYS:O	53:BU:44:LEU:CD2	2.50	0.60
55:BW:65:LYS:O	55:BW:68:LYS:CG	2.50	0.60
1:AB:114:G:H2'	1:AB:115:G:C8	2.36	0.59
2:AA:177:G:H2'	2:AA:177:G:N3	2.16	0.59
2:AA:221:A:H3'	2:AA:221:A:H8	1.66	0.59
2:AA:562:U:O2	2:AA:572:A:C1'	2.50	0.59
2:AA:562:U:O2	2:AA:572:A:H1'	2.02	0.59
2:AA:648:G:C4	2:AA:649:G:C8	2.90	0.59
2:AA:685:A:C4	2:AA:774:A:N1	2.70	0.59
2:AA:734:A:O2'	2:AA:735:A:O5'	2.20	0.59
2:AA:791:C:O2'	2:AA:792:G:H5'	1.99	0.59
2:AA:861:A:H2'	2:AA:862:G:C5'	2.26	0.59
2:AA:895:U:O2	2:AA:896:A:N1	2.35	0.59
2:AA:969:U:C4	2:AA:970:C:C5	2.90	0.59
2:AA:998:C:N4	2:AA:1157:G:H1	2.00	0.59
2:AA:1029:A:H8	2:AA:1029:A:O5'	1.85	0.59
2:AA:1076:C:C2'	11:AL:91:GLU:HB3	2.28	0.59
2:AA:1077:A:H2'	2:AA:1078:U:O4'	2.02	0.59
2:AA:142(A):A:OP2	2:AA:1143:A:H8	1.83	0.59
2:AA:1457:A:C2	2:AA:2703:C:N4	2.70	0.59
2:AA:1494:A:H3'	2:AA:1494:A:C4	2.37	0.59
2:AA:1528:A:H2'	2:AA:1529:A:H4'	1.83	0.59
2:AA:1530:G:C4	2:AA:1542:G:N7	2.69	0.59
2:AA:1568:G:H5''	4:AD:60:GLN:CG	2.32	0.59
2:AA:1583:A:OP1	2:AA:1586:A:H5'	2.01	0.59
2:AA:1655:A:H2'	2:AA:1656:C:H6	1.65	0.59
2:AA:1655:A:N6	2:AA:2005:A:O2'	2.34	0.59
2:AA:1695:G:C2'	2:AA:1696:G:C5'	2.62	0.59
2:AA:1775:U:C2'	2:AA:1776:G:H5'	2.32	0.59
2:AA:1880:C:O2	2:AA:1880:C:C2'	2.50	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1894:C:O2'	2:AA:1895:C:O5'	2.19	0.59
2:AA:1903:G:C4	2:AA:1904:G:N7	2.70	0.59
2:AA:2079:U:O4	2:AA:2241:A:N1	2.35	0.59
2:AA:2305:A:N1	2:AA:2312:U:H1'	2.17	0.59
2:AA:2468:G:HO2'	2:AA:2469:A:H8	1.41	0.59
2:AA:2485:G:O2'	2:AA:2486:G:C5'	2.44	0.59
2:AA:2519:U:C5'	2:AA:2520:C:OP1	2.45	0.59
2:AA:2526:G:C6	2:AA:2527:C:C5	2.89	0.59
2:AA:2544:G:C5'	2:AA:2645:G:N7	2.44	0.59
2:AA:2549:G:O2'	2:AA:2550:G:H5'	2.00	0.59
2:AA:2589:A:H2'	2:AA:2590:A:H8	1.66	0.59
2:AA:2691:C:H3'	2:AA:2691:C:C6	2.37	0.59
2:AA:2768:C:N3	2:AA:2769:C:C5	2.70	0.59
2:AA:2781:A:C5'	2:AA:2782:G:H5'	2.23	0.59
2:AA:2784:C:H1'	5:AE:98:GLU:OE1	2.02	0.59
3:AC:75:LEU:HD21	3:AC:103:ILE:HD11	1.84	0.59
3:AC:88:GLU:O	3:AC:89:ALA:C	2.45	0.59
3:AC:131:LEU:O	3:AC:133:PRO:HD2	2.02	0.59
3:AC:205:LYS:CG	3:AC:206:GLY:H	1.97	0.59
4:AD:80:ILE:HB	4:AD:82:TYR:HE1	1.63	0.59
4:AD:89:ASN:OD1	4:AD:199:ARG:NH2	2.32	0.59
4:AD:93:ILE:HB	4:AD:103:ILE:HG22	1.84	0.59
4:AD:210:LYS:CG	4:AD:211:HIS:H	2.07	0.59
5:AE:42:ALA:O	5:AE:189:MET:HE1	2.02	0.59
5:AE:177:ALA:O	5:AE:181:VAL:HB	2.02	0.59
5:AE:215:LYS:O	5:AE:216:ARG:C	2.44	0.59
7:AG:14:ARG:HA	7:AG:137:PRO:HG3	1.83	0.59
7:AG:103:ASN:HB3	7:AG:132:VAL:O	2.02	0.59
9:AI:14:THR:CB	9:AJ:105:GLY:O	2.49	0.59
9:AI:14:THR:OG1	9:AJ:105:GLY:O	2.19	0.59
10:AK:114:LYS:HD2	10:AK:132:LYS:O	2.02	0.59
11:AL:55:PRO:HD3	11:AL:73:PRO:CA	2.32	0.59
12:AM:10:VAL:HG12	12:AM:12:VAL:CG2	2.32	0.59
13:AN:71:ARG:CG	13:AN:72:PRO:HD2	2.32	0.59
13:AN:87:ILE:CG2	13:AN:92:SER:N	2.64	0.59
15:AP:73:GLN:O	21:AV:175:ARG:NH1	2.23	0.59
15:AP:82:LYS:HB2	15:AP:125:TRP:N	2.16	0.59
16:AQ:32:PRO:HG2	16:AQ:100:ALA:HB1	1.83	0.59
16:AQ:104:ILE:O	16:AQ:106:LEU:N	2.34	0.59
18:AS:19:LEU:CG	29:A5:25:LEU:HG	2.32	0.59
19:AT:20:PHE:O	19:AT:22:ASN:OD1	2.19	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:103:LEU:C	20:AU:105:ASP:H	2.10	0.59
20:AU:103:LEU:HA	20:AU:108:ARG:HB2	1.84	0.59
23:AX:12:PRO:O	23:AX:15:TYR:N	2.35	0.59
24:A0:77:ARG:HH11	24:A0:77:ARG:HB2	1.63	0.59
25:A1:48:ARG:O	25:A1:52:ASN:CG	2.45	0.59
25:A1:50:ARG:NH2	26:A2:74:TYR:HA	2.17	0.59
25:A1:55:ARG:O	25:A1:56:ASP:C	2.45	0.59
25:A1:95:LEU:O	25:A1:106:PHE:CE1	2.55	0.59
27:A3:28:GLY:H	27:A3:60:PHE:CB	2.15	0.59
27:A3:40:GLN:CA	27:A3:69:PHE:HE1	2.15	0.59
28:A4:16:TYR:O	28:A4:17:GLN:CG	2.40	0.59
28:A4:48:ARG:CG	28:A4:49:PHE:CD1	2.84	0.59
28:A4:48:ARG:O	28:A4:51:ASP:O	2.20	0.59
30:A6:8:ILE:HD13	30:A6:29:ARG:NE	2.16	0.59
32:A8:62:LEU:HB2	32:A8:63:PRO:CD	2.26	0.59
34:BA:7:G:H21	40:BH:121:LYS:HG2	1.65	0.59
34:BA:8:A:N7	39:BG:208:SER:O	2.34	0.59
34:BA:132:C:C2	34:BA:230:G:N2	2.66	0.59
34:BA:160:A:C1'	34:BA:344:A:N7	2.65	0.59
34:BA:339:C:H2'	34:BA:340:U:O5'	2.01	0.59
34:BA:410:G:N2	34:BA:429:U:H3	1.99	0.59
34:BA:414:A:C4	34:BA:415:A:C8	2.90	0.59
34:BA:599:C:O2'	43:BK:129:VAL:C	2.45	0.59
34:BA:701:C:H5'	34:BA:703:G:O5'	2.01	0.59
34:BA:703:G:C8	34:BA:703:G:O5'	2.55	0.59
34:BA:841:U:H3	37:BE:37:ASN:ND2	1.99	0.59
34:BA:924:C:HO2'	34:BA:1399:C:H6	1.48	0.59
34:BA:995:C:H6	34:BA:995:C:OP2	1.85	0.59
35:BB:29:A:C2	35:BB:30:G:N9	2.69	0.59
36:B1:59:A:H3'	36:B1:59:A:C8	2.35	0.59
37:BE:50:GLU:O	37:BE:51:LEU:C	2.45	0.59
37:BE:69:LEU:HB3	37:BE:162:ILE:CG2	2.27	0.59
37:BE:78:GLN:O	37:BE:94:ASN:ND2	2.35	0.59
37:BE:144:ARG:HD2	37:BE:148:TYR:OH	2.02	0.59
37:BE:149:LEU:C	37:BE:151:GLY:N	2.59	0.59
38:BF:134:ILE:CG2	38:BF:151:VAL:HB	2.31	0.59
39:BG:20:TYR:HD1	39:BG:21:LEU:H	1.50	0.59
39:BG:31:CYS:C	39:BG:33:MET:N	2.59	0.59
39:BG:78:LEU:O	39:BG:79:PHE:C	2.45	0.59
39:BG:155:LEU:N	39:BG:155:LEU:HD23	2.17	0.59
42:BJ:22:LEU:O	42:BJ:25:ALA:HB3	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:24:THR:O	43:BK:24:THR:CG2	2.49	0.59
43:BK:82:HIS:C	43:BK:137:VAL:HG13	2.26	0.59
44:BL:6:GLY:HA2	44:BL:83:ARG:HG2	1.83	0.59
47:BO:60:LEU:HD22	47:BO:64:TYR:O	2.02	0.59
47:BO:102:ARG:HE	47:BO:109:GLY:CA	2.16	0.59
48:BP:2:ALA:C	48:BP:4:ILE:N	2.51	0.59
48:BP:10:PRO:HB2	48:BP:18:ALA:CA	2.31	0.59
50:BR:75:PRO:O	50:BR:79:ARG:HG3	2.02	0.59
51:BS:23:ASP:OD1	51:BS:25:ARG:HG3	2.02	0.59
52:BT:8:GLY:HA3	52:BT:22:LEU:O	2.02	0.59
55:BW:16:HIS:O	55:BW:19:SER:HB3	2.02	0.59
2:AA:83:G:O6	2:AA:102:G:C4	2.55	0.59
2:AA:126:A:C8	2:AA:127:A:C4	2.90	0.59
2:AA:202:U:H2'	2:AA:203:C:O4'	2.02	0.59
2:AA:480:A:H2'	2:AA:481:G:OP1	2.01	0.59
2:AA:510:C:C6	2:AA:512:G:N2	2.70	0.59
2:AA:529:A:N6	2:AA:2042:A:H2	1.96	0.59
2:AA:690:G:O2'	2:AA:780:G:OP1	2.19	0.59
2:AA:721:C:N4	2:AA:722:A:N6	2.49	0.59
2:AA:776:G:C4	2:AA:793:A:C5	2.89	0.59
2:AA:828:U:H2'	2:AA:829:A:N9	2.14	0.59
2:AA:979:G:H22	2:AA:985:C:N4	1.99	0.59
2:AA:1059:G:OP2	2:AA:1061:U:O4	2.20	0.59
2:AA:1079:C:O2'	11:AL:129:GLU:OE1	2.20	0.59
2:AA:1262:A:H2	29:A5:10:LYS:CE	2.02	0.59
2:AA:1270:C:H5''	2:AA:1271:G:P	2.41	0.59
2:AA:1365:A:C4	2:AA:1366:A:N7	2.70	0.59
2:AA:1492:G:O4'	4:AD:97:ASP:OD1	2.21	0.59
2:AA:1493:C:N4	2:AA:1500:G:C2	2.64	0.59
2:AA:1605:C:C5	2:AA:1606:G:C5	2.90	0.59
2:AA:1689:A:N1	2:AA:1700:A:C2	2.71	0.59
2:AA:1717:G:C6	2:AA:1742:C:O2	2.54	0.59
2:AA:1809:A:H3'	2:AA:1810:A:C2	2.37	0.59
2:AA:1857:G:H3'	2:AA:1857:G:C8	2.37	0.59
2:AA:1963:U:O2	2:AA:1963:U:C2'	2.51	0.59
2:AA:1971:A:H3'	2:AA:1971:A:H8	1.67	0.59
2:AA:1998:G:C6	2:AA:1999:C:C5	2.90	0.59
2:AA:2005:A:H5''	2:AA:2006:C:OP2	2.00	0.59
2:AA:2058:A:N3	2:AA:2059:A:C8	2.70	0.59
2:AA:2082:A:C2	2:AA:2083:G:C4	2.90	0.59
2:AA:2091:U:O5'	2:AA:2091:U:H6	1.85	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2107:C:O5'	2:AA:2107:C:C6	2.55	0.59
2:AA:2219:G:C2'	2:AA:2224:G:C5'	2.72	0.59
2:AA:2333:A:H1'	2:AA:2335:A:C4	2.37	0.59
2:AA:2385:C:N3	2:AA:2386:C:C5	2.69	0.59
2:AA:2396:G:O2'	28:A4:27:THR:CG2	2.50	0.59
2:AA:2414:G:H8	2:AA:2414:G:O5'	1.85	0.59
2:AA:2415:G:H21	2:AA:2416:C:H1'	1.67	0.59
2:AA:2527:C:OP1	33:A9:30:VAL:CG1	2.48	0.59
2:AA:2690:C:H41	24:A0:14:SER:CB	2.11	0.59
2:AA:2721:A:H2'	2:AA:2722:G:H8	1.66	0.59
2:AA:2738:A:N6	2:AA:2767:C:N4	2.49	0.59
2:AA:2816:C:OP1	24:A0:99:LYS:NZ	2.35	0.59
2:AA:2840:C:O2'	2:AA:2841:C:H5'	2.01	0.59
2:AA:2859:G:H2'	2:AA:2860:A:O4'	2.01	0.59
2:AA:2870:C:O2'	2:AA:2871:C:O5'	2.19	0.59
3:AC:41:VAL:HG13	3:AC:215:THR:O	2.02	0.59
3:AC:93:TYR:CD2	3:AC:110:PHE:HB3	2.36	0.59
5:AE:44:TYR:C	5:AE:74:GLU:CD	2.71	0.59
6:AF:40:ALA:HB1	6:AF:100:LEU:HB2	1.84	0.59
7:AG:97:GLN:OE1	7:AG:106:PHE:HE2	1.84	0.59
8:AH:85:ALA:CA	8:AH:131:ILE:HG22	2.23	0.59
8:AH:95:ALA:O	8:AH:127:GLN:HA	2.01	0.59
8:AH:167:LEU:HD23	8:AH:167:LEU:H	1.67	0.59
9:AI:73:VAL:HG22	9:AI:122:GLY:N	2.17	0.59
9:AJ:80:ILE:CG2	9:AJ:103:LYS:HD2	2.22	0.59
10:AK:46:ALA:O	10:AK:49:ALA:HB3	2.03	0.59
11:AL:28:LEU:C	11:AL:33:VAL:HB	2.27	0.59
13:AN:73:ASP:O	13:AN:75:SER:N	2.35	0.59
13:AN:86:ILE:O	13:AN:93:PRO:HA	2.02	0.59
14:AO:67:ARG:HD3	14:AO:111:ALA:O	2.02	0.59
15:AP:59:ASN:ND2	15:AP:59:ASN:N	2.47	0.59
18:AS:3:ALA:HB2	18:AS:62:HIS:HD1	1.67	0.59
18:AS:25:ARG:CG	18:AS:26:GLY:H	2.15	0.59
19:AT:3:ASP:HA	22:AW:24:LYS:HD2	1.83	0.59
19:AT:11:THR:O	19:AT:14:ALA:N	2.36	0.59
21:AV:118:HIS:O	21:AV:119:ASN:CB	2.50	0.59
25:A1:28:ARG:HH11	25:A1:28:ARG:HG2	1.67	0.59
31:A7:21:ARG:NH2	31:A7:43:THR:N	2.49	0.59
31:A7:34:ARG:HD2	31:A7:42:LEU:CD2	2.32	0.59
34:BA:49:U:C5	34:BA:364:A:N6	2.69	0.59
34:BA:129(A):G:H2'	34:BA:190(E):U:C5	2.37	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:148:G:N2	34:BA:175:C:C4	2.70	0.59
34:BA:174:C:C2	34:BA:175:C:C5	2.91	0.59
34:BA:187:C:O2'	34:BA:188:C:H5'	2.02	0.59
34:BA:422:C:O4'	34:BA:423:G:C2	2.54	0.59
34:BA:453:A:H2'	34:BA:454:C:C6	2.37	0.59
34:BA:556:C:O2'	34:BA:557:G:H5'	2.02	0.59
34:BA:590:C:H5''	43:BK:30:ARG:HG3	1.83	0.59
34:BA:597:G:C2'	34:BA:598:U:H5'	2.31	0.59
34:BA:964:A:OP1	34:BA:1199:U:OP1	2.19	0.59
34:BA:1308:U:H5'	48:BP:110:ARG:HH22	1.67	0.59
34:BA:1321:C:C4	34:BA:1322:C:N3	2.70	0.59
34:BA:1324:A:O4'	34:BA:361(A):C:H4'	2.02	0.59
34:BA:1358:U:OP2	34:BA:1359:C:H5	1.85	0.59
34:BA:1490:C:C2'	34:BA:1491:G:O5'	2.50	0.59
34:BA:1515:C:O2'	34:BA:1516:G:O5'	2.19	0.59
35:BC:4:G:N2	35:BC:70:C:H1'	2.17	0.59
35:BC:57:G:H2'	35:BC:58:A:H5'	1.83	0.59
36:B1:15:A:N1	36:B1:41:U:C2	2.70	0.59
38:BF:157:ILE:C	38:BF:159:GLY:N	2.60	0.59
39:BG:61:LYS:N	39:BG:203:VAL:HG22	2.17	0.59
39:BG:63:LYS:CG	39:BG:64:LEU:H	2.15	0.59
39:BG:107:ARG:HH11	39:BG:107:ARG:CA	2.06	0.59
39:BG:128:VAL:CG2	39:BG:133:VAL:HG23	2.25	0.59
39:BG:153:ARG:CG	39:BG:181:MET:HE1	2.32	0.59
40:BH:150:ARG:O	40:BH:150:ARG:HD3	2.02	0.59
41:BI:36:ARG:HH11	41:BI:36:ARG:CB	2.15	0.59
41:BI:40:VAL:HA	41:BI:63:TYR:HD1	1.66	0.59
41:BI:45:LEU:HD23	41:BI:58:GLY:C	2.27	0.59
42:BJ:64:GLN:CG	42:BJ:128:ALA:HB1	2.32	0.59
43:BK:4:ASP:CG	43:BK:6:ILE:CG2	2.75	0.59
45:BM:24:VAL:O	45:BM:34:VAL:HG21	2.02	0.59
46:BN:42:TRP:HE3	46:BN:43:SER:CA	2.14	0.59
46:BN:64:ALA:O	46:BN:66:LEU:N	2.35	0.59
46:BN:85:ARG:HG3	46:BN:85:ARG:NH1	2.16	0.59
49:BQ:29:ARG:HB3	49:BQ:40:CYS:CB	2.32	0.59
56:BX:20:LYS:CG	56:BX:21:TYR:N	2.64	0.59
1:AB:71:C:O2	1:AB:72:G:O4'	2.21	0.59
1:AB:75:G:O2'	1:AB:76:G:H5'	2.01	0.59
2:AA:10:G:N2	2:AA:2629:A:N3	2.50	0.59
2:AA:59:U:H3'	2:AA:60:G:C5'	2.32	0.59
2:AA:67:U:C2	2:AA:68:G:N7	2.70	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:294:A:C8	2:AA:294:A:H3'	2.38	0.59
2:AA:470:A:H2'	2:AA:471:A:O4'	2.02	0.59
2:AA:900:A:N7	2:AA:901:A:C8	2.69	0.59
2:AA:901:A:C5	2:AA:902:C:C4	2.90	0.59
2:AA:960:A:N3	2:AA:962:G:O4'	2.35	0.59
2:AA:1011:G:O2'	2:AA:1013:C:O4'	2.16	0.59
2:AA:1063:G:N2	2:AA:1075:C:C2	2.71	0.59
2:AA:1181:C:H2'	2:AA:1182:A:H8	1.68	0.59
2:AA:1189:A:N6	2:AA:1190:G:N3	2.50	0.59
2:AA:1199:U:C2	2:AA:1200:C:C6	2.90	0.59
2:AA:1239:G:O2'	2:AA:1240:U:O4'	2.20	0.59
2:AA:1241:A:C8	2:AA:1241:A:OP2	2.55	0.59
2:AA:1260:G:C2'	2:AA:1261:C:H5'	2.30	0.59
2:AA:1471:A:N6	2:AA:1519:G:H22	1.93	0.59
2:AA:1548:C:H2'	2:AA:1549:C:H6	1.67	0.59
2:AA:1649:G:C6	2:AA:2009:G:N1	2.70	0.59
2:AA:1683:C:N3	2:AA:1684:C:C4	2.70	0.59
2:AA:1763:G:C2'	2:AA:1764:G:O5'	2.49	0.59
2:AA:1809:A:H3'	2:AA:1810:A:C4	2.36	0.59
2:AA:1819:A:C4	4:AD:177:SER:HB3	2.37	0.59
2:AA:1861:G:C4'	3:AC:205:LYS:NZ	2.64	0.59
2:AA:1982:C:N3	2:AA:1983:C:C5	2.71	0.59
2:AA:2053:G:C2	2:AA:2054:A:C8	2.89	0.59
2:AA:2097:C:N4	2:AA:2193:G:O6	2.36	0.59
2:AA:2151:G:C2	2:AA:2152:G:N3	2.70	0.59
2:AA:2219:G:OP1	4:AD:184:LEU:HD21	2.02	0.59
2:AA:2259:G:H5'	2:AA:2427:C:H3'	1.85	0.59
2:AA:2261:C:O4'	2:AA:2388:A:H1'	2.02	0.59
2:AA:2468:G:C6	2:AA:2481:G:C6	2.90	0.59
2:AA:2822:G:OP1	5:AE:207:GLY:CA	2.51	0.59
2:AA:2826:A:C5	2:AA:2827:C:C6	2.90	0.59
3:AC:49:ILE:HG13	3:AC:50:ASP:H	1.65	0.59
3:AC:49:ILE:CG1	3:AC:50:ASP:H	2.15	0.59
3:AC:62:VAL:HB	3:AC:163:PHE:HE2	1.67	0.59
4:AD:70:LYS:HB3	4:AD:70:LYS:NZ	2.16	0.59
5:AE:225:LYS:CA	5:AE:228:ARG:HH12	2.15	0.59
5:AE:263:GLU:O	5:AE:266:LYS:NZ	2.35	0.59
5:AE:269:ILE:CD1	5:AE:295:LEU:O	2.50	0.59
6:AF:194:PHE:HB2	6:AF:211:ASP:OD2	2.01	0.59
7:AG:53:LYS:HG3	7:AG:54:ALA:H	1.67	0.59
7:AG:152:PRO:O	7:AG:154:LYS:N	2.34	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:104:LEU:HD13	8:AH:151:ARG:NH2	2.16	0.59
8:AH:117:GLU:HG2	8:AH:118:GLU:H	1.68	0.59
8:AH:151:ARG:HB2	8:AH:161:ILE:CD1	2.33	0.59
11:AL:72:THR:CB	11:AL:115:ASP:HB3	2.32	0.59
11:AL:75:ALA:HA	11:AL:112:LYS:HZ2	1.65	0.59
11:AL:101:THR:O	11:AL:105:ILE:HG13	2.01	0.59
12:AM:21:ARG:CD	12:AM:21:ARG:N	2.64	0.59
12:AM:45:VAL:CG1	12:AM:46:ILE:N	2.66	0.59
14:AO:131:GLU:O	14:AO:134:GLU:HB2	2.02	0.59
15:AP:16:ARG:NH1	15:AP:16:ARG:CB	2.44	0.59
15:AP:45:GLN:CG	15:AP:125:TRP:HE1	2.12	0.59
15:AP:65:ARG:NH2	15:AP:87:LYS:HB2	2.17	0.59
18:AS:19:LEU:HD13	29:A5:25:LEU:HD23	1.83	0.59
18:AS:27:LYS:O	18:AS:71:VAL:HG22	2.02	0.59
20:AU:19:ARG:CZ	20:AU:68:ASP:HA	2.31	0.59
21:AV:5:ALA:CB	21:AV:13:LYS:NZ	2.65	0.59
21:AV:14:LEU:CG	21:AV:80:HIS:NE2	2.66	0.59
21:AV:71:MET:O	21:AV:78:PRO:N	2.35	0.59
25:A1:113:SER:O	25:A1:116:ALA:CB	2.50	0.59
25:A1:114:ARG:C	25:A1:117:ARG:HG3	2.26	0.59
26:A2:20:ILE:HG12	26:A2:67:LYS:HZ3	1.60	0.59
26:A2:68:LYS:HG2	26:A2:69:ILE:HD11	1.85	0.59
27:A3:8:GLY:O	27:A3:9:SER:C	2.45	0.59
27:A3:35:ASN:OD1	27:A3:35:ASN:C	2.44	0.59
28:A4:26:SER:C	28:A4:27:THR:HG23	2.27	0.59
34:BA:52:G:H21	34:BA:53:A:H1'	1.67	0.59
34:BA:83:U:H2'	34:BA:84:U:C6	2.36	0.59
34:BA:310:G:H2'	34:BA:311:C:C6	2.38	0.59
34:BA:450:G:OP1	34:BA:451:A:H3'	2.03	0.59
34:BA:530:G:C8	35:BB:35:A:O4'	2.54	0.59
34:BA:557:G:H3'	34:BA:558:G:C8	2.37	0.59
34:BA:586:C:N4	34:BA:755:G:H1	2.00	0.59
34:BA:693:G:H2'	34:BA:694:A:C8	2.37	0.59
34:BA:889:A:H5'	34:BA:891:U:O4'	2.03	0.59
34:BA:1258:G:O5'	34:BA:1258:G:H8	1.85	0.59
34:BA:1270:C:H4'	34:BA:1313:U:O2'	2.03	0.59
34:BA:1480:G:N1	34:BA:1481:U:O2	2.35	0.59
34:BA:1531:A:H2'	34:BA:1532:U:C5	2.35	0.59
35:BB:9:A:C6	35:BB:45:G:C6	2.91	0.59
35:BB:34:G:H8	35:BB:34:G:C5'	2.13	0.59
35:BB:52:U:C3'	35:BB:53:G:H5'	2.32	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:58:A:H4'	35:BC:59:U:OP1	2.02	0.59
37:BE:46:LYS:HA	37:BE:49:GLU:OE1	2.02	0.59
37:BE:60:ASP:O	37:BE:63:MET:HG2	2.01	0.59
37:BE:75:LYS:HA	37:BE:78:GLN:CB	2.32	0.59
37:BE:193:ASP:O	37:BE:194:PRO:C	2.46	0.59
38:BF:23:TYR:HD2	38:BF:24:ALA:N	2.00	0.59
39:BG:11:LEU:N	39:BG:11:LEU:HD23	2.16	0.59
39:BG:39:PRO:HG2	39:BG:44:GLY:CA	2.31	0.59
39:BG:129:ASN:HD21	39:BG:144:ASP:CB	2.15	0.59
39:BG:133:VAL:HG11	39:BG:138:TYR:CB	2.30	0.59
41:BI:67:MET:HE3	41:BI:69:GLU:N	2.16	0.59
42:BJ:121:ALA:HB1	42:BJ:125:MET:CE	2.32	0.59
43:BK:32:LYS:CG	43:BK:33:GLU:N	2.64	0.59
43:BK:32:LYS:O	43:BK:36:LEU:HD23	2.02	0.59
45:BM:75:ILE:HG22	45:BM:76:ASN:CG	2.27	0.59
46:BN:67:ASP:HA	46:BN:70:LYS:CE	2.31	0.59
48:BP:87:TYR:HA	48:BP:90:LEU:HD12	1.84	0.59
51:BS:81:ARG:HG2	51:BS:83:GLU:HG2	1.83	0.59
55:BW:27:LYS:O	55:BW:28:ALA:C	2.43	0.59
1:AB:37:C:N4	1:AB:48:A:O2'	2.21	0.59
1:AB:48:A:H2'	1:AB:49:C:C6	2.37	0.59
1:AB:66:A:C2	1:AB:108:C:C5	2.89	0.59
1:AB:70:C:C2	1:AB:106:G:N2	2.68	0.59
2:AA:37:C:C5'	2:AA:451:C:H5''	2.32	0.59
2:AA:92:G:C2	2:AA:93:C:C4	2.90	0.59
2:AA:270(X):G:H4'	2:AA:272:G:O3'	2.02	0.59
2:AA:405:U:H5''	2:AA:406:G:C5'	2.32	0.59
2:AA:451:C:N3	2:AA:453:C:C5	2.70	0.59
2:AA:452:G:N2	2:AA:458:G:N3	2.49	0.59
2:AA:508:G:H5''	2:AA:509:C:OP1	2.02	0.59
2:AA:541:C:C4	2:AA:542:C:N4	2.70	0.59
2:AA:587:C:C6	2:AA:671:C:H1'	2.38	0.59
2:AA:602:G:O5'	2:AA:602:G:H8	1.84	0.59
2:AA:609:A:N7	2:AA:609(A):G:N7	2.50	0.59
2:AA:764:A:N7	2:AA:1776:G:O2'	2.36	0.59
2:AA:798:G:H2'	2:AA:799:G:C8	2.36	0.59
2:AA:880:G:H2'	2:AA:881:G:C4'	2.31	0.59
2:AA:919:G:HO2'	2:AA:920:G:H8	1.48	0.59
2:AA:946:G:N2	2:AA:971:C:N3	2.48	0.59
2:AA:996:A:O2'	2:AA:997:G:O5'	2.21	0.59
2:AA:999:U:H2'	2:AA:1000:A:H5'	1.85	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1179:C:OP2	2:AA:1179:C:H6	1.84	0.59
2:AA:1324:G:N2	2:AA:1328:G:H22	2.00	0.59
2:AA:1478:G:H1	2:AA:1515:C:N4	2.00	0.59
2:AA:1553:A:N1	2:AA:1556:C:C5	2.70	0.59
2:AA:1615:C:C5	2:AA:1617:C:C5	2.91	0.59
2:AA:1784:A:H4'	2:AA:1785:A:C5'	2.31	0.59
2:AA:1957:C:O2'	2:AA:1985:G:C1'	2.51	0.59
2:AA:1964:G:O2'	2:AA:1965:C:P	2.60	0.59
2:AA:1990:C:O2	2:AA:1991:U:O2	2.20	0.59
2:AA:2021:C:O2	2:AA:2022:U:OP1	2.19	0.59
2:AA:2025:C:H2'	2:AA:2026:C:H6	1.65	0.59
2:AA:2246:G:C2'	2:AA:2247:A:H8	2.15	0.59
2:AA:2320:A:N6	16:AQ:9:PRO:CG	2.64	0.59
2:AA:2456:C:N3	2:AA:2495:G:O6	2.35	0.59
2:AA:2575:C:H2'	5:AE:237:ASN:ND2	2.17	0.59
2:AA:2674:G:H4'	13:AN:30:ARG:CG	2.32	0.59
2:AA:2683:C:C5	2:AA:2684:U:C5	2.90	0.59
2:AA:2713:A:H3'	2:AA:2714:G:C5'	2.31	0.59
2:AA:2768:C:H2'	2:AA:2769:C:O5'	2.02	0.59
3:AC:59:ARG:HH21	3:AC:140:PRO:HD2	1.67	0.59
3:AC:146:GLY:C	3:AC:148:ASN:H	2.08	0.59
6:AF:22:PHE:CE2	6:AF:115:LEU:HB3	2.35	0.59
7:AG:55:LYS:C	7:AG:56:ARG:HG2	2.27	0.59
8:AH:45:GLU:N	8:AH:45:GLU:OE1	2.35	0.59
8:AH:71:LEU:O	8:AH:72:ALA:C	2.46	0.59
8:AH:117:GLU:OE1	8:AH:118:GLU:O	2.20	0.59
9:AI:57:THR:HG21	9:AJ:110:GLU:CG	2.32	0.59
10:AK:5:PHE:CD2	10:AK:17:GLU:C	2.80	0.59
11:AL:106:GLU:O	11:AL:109:ALA:HB3	2.02	0.59
12:AM:15:ARG:HH11	12:AM:43:ARG:CZ	2.14	0.59
13:AN:76:TYR:HB2	17:AR:19:THR:OG1	2.03	0.59
13:AN:103:ALA:C	13:AN:105:GLU:HG2	2.27	0.59
14:AO:113:GLN:NE2	14:AO:115:ARG:HH12	2.00	0.59
15:AP:71:PHE:HD1	15:AP:71:PHE:H	1.48	0.59
16:AQ:40:ASN:O	16:AQ:42:HIS:N	2.36	0.59
17:AR:9:CYS:O	17:AR:11:THR:N	2.35	0.59
17:AR:48:ASN:O	17:AR:49:LEU:C	2.46	0.59
20:AU:81:LYS:CG	20:AU:82:THR:H	2.12	0.59
21:AV:4:THR:HG22	21:AV:56:VAL:HG22	1.82	0.59
21:AV:99:HIS:O	21:AV:137:ASP:OD2	2.21	0.59
21:AV:103:ARG:CZ	21:AV:137:ASP:CB	2.80	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:117:VAL:HG11	21:AV:167:THR:HG21	1.83	0.59
22:AW:27:LEU:HD21	22:AW:49:LEU:HB2	1.85	0.59
23:AX:27:GLY:C	23:AX:28:LEU:CG	2.74	0.59
25:A1:74:MET:HE3	25:A1:75:ASN:H	1.66	0.59
30:A6:36:GLU:C	30:A6:52:GLU:OE1	2.45	0.59
31:A7:17:GLY:O	31:A7:18:PHE:C	2.45	0.59
32:A8:5:LYS:HG3	32:A8:60:LEU:O	2.01	0.59
34:BA:22:G:C2'	34:BA:23:C:H6	2.13	0.59
34:BA:116:A:C8	34:BA:116:A:O5'	2.55	0.59
34:BA:474:G:O2'	34:BA:475:G:C5'	2.49	0.59
34:BA:499:A:O2'	34:BA:500:G:O4'	2.19	0.59
34:BA:562:C:O2'	47:BO:15:ARG:HD3	2.02	0.59
34:BA:590:C:P	43:BK:29:SER:HG	2.24	0.59
34:BA:690:G:H8	34:BA:690:G:O5'	1.86	0.59
34:BA:694:A:H5'	42:BJ:85:TYR:OH	2.02	0.59
34:BA:737:A:OP1	41:BI:92:LYS:N	2.35	0.59
34:BA:738:C:C4	34:BA:739:C:C5	2.90	0.59
34:BA:761:G:C5'	52:BT:103:GLY:H	2.16	0.59
34:BA:911:U:C2'	34:BA:912:C:H6	2.13	0.59
34:BA:924:C:O2'	34:BA:1399:C:C6	2.55	0.59
34:BA:936:C:C2'	34:BA:937:A:H5'	2.32	0.59
34:BA:1285:A:O2'	34:BA:1286:A:OP2	2.18	0.59
34:BA:1374:A:C5	34:BA:1375:A:N7	2.71	0.59
34:BA:1380:U:O2'	34:BA:1381:U:H5''	2.02	0.59
35:BB:29:A:N1	35:BB:30:G:C5	2.70	0.59
35:BC:15:G:N2	35:BC:48:C:H42	1.93	0.59
35:BC:32:C:O2	35:BC:32:C:C2'	2.48	0.59
35:BC:37:G:C2'	35:BC:38:A:C8	2.69	0.59
35:BC:60:C:OP1	35:BC:61:C:C5	2.54	0.59
36:B1:39:A:O2'	36:B1:40:C:H5'	2.02	0.59
37:BE:182:ILE:CG2	37:BE:183:PRO:HD2	2.32	0.59
39:BG:13:ARG:HD2	39:BG:38:TYR:O	2.02	0.59
39:BG:20:TYR:N	39:BG:31:CYS:SG	2.74	0.59
43:BK:83:ILE:HB	43:BK:137:VAL:HG22	1.83	0.59
43:BK:126:LYS:CD	43:BK:127:LEU:N	2.54	0.59
44:BL:16:ARG:HD3	44:BL:64:THR:HB	1.84	0.59
45:BM:15:THR:HG23	45:BM:16:LEU:HD23	1.83	0.59
46:BN:65:ALA:HB1	46:BN:98:LEU:CG	2.31	0.59
47:BO:100:ILE:HD13	47:BO:100:ILE:H	1.65	0.59
50:BR:39:LEU:HD23	50:BR:40:SER:N	2.16	0.59
52:BT:7:THR:HG22	52:BT:8:GLY:N	2.15	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:69:G:C2	1:AB:70:C:C6	2.91	0.59
2:AA:101:G:H5'	2:AA:102:G:OP1	2.02	0.59
2:AA:137(A):G:O6	2:AA:139:G:C5	2.56	0.59
2:AA:222:A:C6	2:AA:224:G:C4	2.91	0.59
2:AA:242:G:C3'	32:A8:5:LYS:HZ3	2.15	0.59
2:AA:408:G:C2'	2:AA:409:C:H5'	2.32	0.59
2:AA:481:G:N2	2:AA:507:A:C1'	2.63	0.59
2:AA:616:A:H2'	2:AA:617:G:H21	1.68	0.59
2:AA:647:G:H5'	2:AA:2352:A:C5'	2.33	0.59
2:AA:685:A:N1	2:AA:774:A:C2	2.70	0.59
2:AA:745:G:N2	2:AA:753:C:C4	2.71	0.59
2:AA:746:A:HO2'	2:AA:747:U:P	2.26	0.59
2:AA:801:G:OP1	6:AF:54:LEU:O	2.20	0.59
2:AA:1022:G:N1	12:AM:47:THR:HG21	2.17	0.59
2:AA:1143:A:C2	2:AA:1144:G:C5	2.90	0.59
2:AA:1181:C:C2'	2:AA:1182:A:C8	2.84	0.59
2:AA:1182:A:O2'	2:AA:1183:G:O5'	2.19	0.59
2:AA:1428:C:N4	2:AA:1569:A:C8	2.71	0.59
2:AA:1447:G:H21	2:AA:1545:A:H2	1.44	0.59
2:AA:1472:A:N6	2:AA:1518:C:H42	2.00	0.59
2:AA:1558:A:H2	2:AA:1560:G:H1'	1.59	0.59
2:AA:1603:A:H2'	2:AA:1604:C:H6	1.67	0.59
2:AA:1657:C:C2'	2:AA:1658:C:H5'	2.32	0.59
2:AA:1729:A:C8	2:AA:1730:U:O4'	2.56	0.59
2:AA:1823:G:O2'	2:AA:1824:G:H5'	2.01	0.59
2:AA:1917:U:C6	2:AA:1917:U:O5'	2.56	0.59
2:AA:1939:U:OP2	2:AA:1939:U:H3'	2.02	0.59
2:AA:1996:C:O2	2:AA:1997:G:H4'	2.03	0.59
2:AA:2283:C:H2'	2:AA:2283:C:O2	2.03	0.59
2:AA:2330:G:H2'	2:AA:2331:G:O4'	2.02	0.59
2:AA:2468:G:N1	2:AA:2481:G:C5	2.70	0.59
2:AA:2606:C:H2'	2:AA:2607:G:O5'	2.02	0.59
2:AA:2645:G:O4'	2:AA:2645:G:OP2	2.21	0.59
2:AA:2706:G:N1	2:AA:2707:G:N7	2.49	0.59
2:AA:2711:A:OP2	2:AA:2714:G:OP1	2.20	0.59
2:AA:2882:A:H2'	2:AA:2883:A:O5'	2.02	0.59
3:AC:45:ALA:HB2	3:AC:212:VAL:HA	1.84	0.59
4:AD:75:GLY:O	4:AD:115:ILE:O	2.19	0.59
4:AD:121:ALA:O	4:AD:122:ASP:HB3	2.02	0.59
4:AD:185:GLY:C	4:AD:187:CYS:N	2.56	0.59
5:AE:214:VAL:HG13	5:AE:221:LYS:CD	2.28	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:303:PRO:CB	5:AE:307:LEU:HD13	2.32	0.59
9:AI:106:VAL:HG21	9:AI:114:ILE:CD1	2.32	0.59
11:AL:138:GLU:O	11:AL:140:VAL:HG23	2.02	0.59
12:AM:15:ARG:NE	12:AM:40:ASN:CG	2.61	0.59
15:AP:26:LYS:O	15:AP:27:GLY:C	2.44	0.59
15:AP:51:GLU:N	15:AP:51:GLU:OE1	2.34	0.59
15:AP:129:ASP:OD1	15:AP:131:ALA:HB3	2.03	0.59
18:AS:81:ALA:CB	18:AS:99:ARG:NH1	2.65	0.59
18:AS:89:ALA:H	18:AS:92:ARG:C	2.10	0.59
20:AU:20:HIS:O	20:AU:21:LYS:C	2.45	0.59
20:AU:31:LEU:HD13	20:AU:101:LEU:HB2	1.84	0.59
21:AV:62:PHE:CB	21:AV:85:MET:SD	2.91	0.59
21:AV:116:VAL:HG23	21:AV:169:VAL:HG22	1.84	0.59
24:A0:61:HIS:ND1	24:A0:64:ARG:NE	2.50	0.59
25:A1:6:THR:O	25:A1:9:VAL:CB	2.51	0.59
25:A1:55:ARG:HG2	25:A1:58:ARG:NE	2.18	0.59
25:A1:62:ILE:O	25:A1:65:ILE:CB	2.46	0.59
26:A2:15:SER:HB2	26:A2:99:GLN:HE22	1.66	0.59
26:A2:34:GLU:HB3	26:A2:60:VAL:HG11	1.84	0.59
26:A2:87:ARG:HH11	26:A2:87:ARG:CB	2.14	0.59
27:A3:37:LEU:CD1	27:A3:71:ASN:ND2	2.65	0.59
27:A3:44:LYS:C	27:A3:45:PHE:HD1	2.11	0.59
28:A4:44:THR:O	28:A4:46:GLU:OE2	2.21	0.59
28:A4:48:ARG:CG	28:A4:71:SER:OG	2.49	0.59
34:BA:132:C:O2'	34:BA:133:U:C6	2.56	0.59
34:BA:258:G:N3	34:BA:259:G:C8	2.70	0.59
34:BA:320:C:O2	34:BA:321:A:H1'	2.03	0.59
34:BA:366:C:O2'	34:BA:367:U:P	2.61	0.59
34:BA:652:U:O4	34:BA:752:G:H2'	2.02	0.59
34:BA:701:C:O2'	34:BA:702:A:P	2.60	0.59
34:BA:755:G:H2'	34:BA:755:G:N3	2.16	0.59
34:BA:922:G:N2	34:BA:1395:C:N3	2.40	0.59
34:BA:947:G:O2'	34:BA:948:C:H5'	2.02	0.59
34:BA:971:G:H2'	34:BA:1365:G:O2'	2.03	0.59
34:BA:975:A:H4'	34:BA:976:G:O5'	1.98	0.59
34:BA:1003:G:N3	34:BA:1003:G:H2'	2.17	0.59
34:BA:1094:G:C2'	34:BA:1108:G:H22	2.13	0.59
34:BA:1267:C:C5	34:BA:1268:A:C5	2.91	0.59
34:BA:1280:A:O5'	34:BA:1281:U:OP2	2.20	0.59
34:BA:1286:A:H2	56:BX:18:TYR:HH	1.50	0.59
34:BA:1325:C:H4'	56:BX:17:THR:HB	1.84	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:22:LYS:NZ	37:BE:35:GLU:OE1	2.20	0.59
37:BE:116:GLU:O	37:BE:117:GLU:C	2.45	0.59
37:BE:127:ILE:HG22	37:BE:128:GLU:N	2.18	0.59
37:BE:193:ASP:HB2	37:BE:196:LEU:CD2	2.33	0.59
38:BF:112:SER:CB	38:BF:115:LEU:HD12	2.33	0.59
39:BG:18:LYS:HG3	39:BG:33:MET:HG3	1.83	0.59
39:BG:205:GLU:OE1	40:BH:100:VAL:HG23	2.02	0.59
40:BH:115:VAL:HG11	40:BH:118:ILE:HD11	1.85	0.59
40:BH:145:LYS:HA	40:BH:148:VAL:HG21	1.85	0.59
41:BI:49:ALA:O	53:BU:80:PRO:HB3	2.03	0.59
42:BJ:27:ILE:HA	42:BJ:30:ILE:HD12	1.83	0.59
42:BJ:45:ASP:HB2	42:BJ:117:ALA:CB	2.32	0.59
42:BJ:72:ARG:NH2	42:BJ:142:GLU:OE1	2.35	0.59
43:BK:10:LEU:C	43:BK:13:ILE:HB	2.26	0.59
43:BK:38:ILE:HG23	43:BK:41:ARG:HD2	1.85	0.59
43:BK:40:ALA:C	43:BK:42:GLU:N	2.57	0.59
43:BK:53:VAL:O	43:BK:56:LYS:HB2	2.02	0.59
43:BK:114:THR:HG21	43:BK:129:VAL:CG1	2.31	0.59
44:BL:78:LYS:HE2	44:BL:79:LEU:HD22	1.83	0.59
46:BN:65:ALA:HB1	46:BN:98:LEU:HD23	1.84	0.59
47:BO:54:LYS:O	47:BO:70:ILE:HG13	2.03	0.59
47:BO:117:ARG:CZ	47:BO:117:ARG:CB	2.80	0.59
49:BQ:23:ARG:CA	49:BQ:33:VAL:HG21	2.31	0.59
50:BR:4:THR:C	50:BR:6:GLU:OE2	2.44	0.59
50:BR:4:THR:OG1	50:BR:7:GLU:OE2	2.20	0.59
50:BR:6:GLU:HG2	50:BR:7:GLU:H	1.66	0.59
51:BS:56:ALA:O	51:BS:57:ARG:C	2.45	0.59
52:BT:67:LYS:HA	52:BT:70:ARG:CZ	2.33	0.59
53:BU:29:PHE:CE1	53:BU:36:ASN:OD1	2.50	0.59
53:BU:55:ARG:NH1	53:BU:55:ARG:CA	2.64	0.59
55:BW:57:ARG:NH2	55:BW:100:ILE:CG2	2.65	0.59
1:AB:87:G:O2'	1:AB:89:G:N7	2.35	0.59
2:AA:30:G:H2'	2:AA:31:C:C6	2.31	0.59
2:AA:46:C:O2'	2:AA:47:C:H5'	2.02	0.59
2:AA:66:C:C6	2:AA:89:G:N2	2.71	0.59
2:AA:68:G:H22	2:AA:74:A:P	2.26	0.59
2:AA:128:C:N4	2:AA:129:C:N4	2.51	0.59
2:AA:138:G:N7	19:AT:39:ASP:OD1	2.36	0.59
2:AA:222:A:HO2'	2:AA:223:A:P	2.25	0.59
2:AA:372:G:H4'	28:A4:63:PHE:HE2	1.67	0.59
2:AA:402:A:C6	2:AA:403:U:C5	2.90	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:475:U:OP2	2:AA:475:U:H6	1.86	0.59
2:AA:530:G:N1	2:AA:2021:C:C5'	2.62	0.59
2:AA:535:C:H5'	25:A1:53:LYS:CE	2.32	0.59
2:AA:558:G:N3	2:AA:559:G:N7	2.51	0.59
2:AA:647:G:H2'	2:AA:648:G:C8	2.37	0.59
2:AA:713:G:N2	2:AA:714:U:O4'	2.36	0.59
2:AA:740:U:C4	2:AA:758:C:H1'	2.38	0.59
2:AA:819:A:C4'	2:AA:838:C:H5'	2.23	0.59
2:AA:1000:A:C8	2:AA:1154:G:N2	2.69	0.59
2:AA:1024:G:C5	2:AA:1025:G:C8	2.91	0.59
2:AA:1081:U:H1'	11:AL:117:ASN:ND2	2.18	0.59
2:AA:1184:G:OP1	23:AX:29:ARG:HB3	2.02	0.59
2:AA:1274:A:C8	2:AA:1646:C:C4	2.91	0.59
2:AA:1288:U:C5'	2:AA:1289:C:OP2	2.45	0.59
2:AA:1301:A:H62	2:AA:1303:G:C1'	2.13	0.59
2:AA:1375:C:C5	2:AA:1376:C:H5	2.21	0.59
2:AA:1448:G:N3	2:AA:1449:A:N7	2.49	0.59
2:AA:1534:G:C2	2:AA:1538:G:N3	2.71	0.59
2:AA:1677:A:C2	2:AA:1678:G:N3	2.71	0.59
2:AA:1790:C:H3'	2:AA:1828:G:N2	2.17	0.59
2:AA:1834:U:O3'	2:AA:1835:G:H8	1.85	0.59
2:AA:1906:G:H8	2:AA:1929:G:H2'	1.66	0.59
2:AA:1917:U:C3'	2:AA:1918:A:H8	2.09	0.59
2:AA:1944:U:H2'	2:AA:1945:G:OP1	2.01	0.59
2:AA:2122:U:OP2	3:AC:129:ARG:NE	2.35	0.59
2:AA:2322:A:N3	2:AA:2322:A:H2'	2.17	0.59
2:AA:2331:G:H2'	2:AA:2332:U:O4'	2.02	0.59
2:AA:2422:A:HO2'	2:AA:2424:C:H6	1.50	0.59
2:AA:2450:A:H2'	2:AA:2451:A:C5'	2.32	0.59
2:AA:2497:A:H8	2:AA:2497:A:O5'	1.85	0.59
2:AA:2748:A:H1'	8:AH:66:THR:HB	1.84	0.59
2:AA:2799:A:O2'	2:AA:2802:G:C2	2.56	0.59
2:AA:2807:G:O6	2:AA:2892:A:N7	2.35	0.59
6:AF:98:ARG:O	6:AF:99:SER:O	2.19	0.59
6:AF:164:ALA:HB1	6:AF:232:LEU:HD13	1.84	0.59
7:AG:134:LEU:HD13	7:AG:136:ARG:HH21	1.67	0.59
7:AG:136:ARG:HD2	7:AG:136:ARG:N	2.17	0.59
8:AH:41:THR:C	8:AH:52:THR:CG2	2.75	0.59
8:AH:98:GLN:CB	8:AH:103:VAL:HG21	2.33	0.59
9:AI:19:ALA:C	9:AJ:46:GLY:HA2	2.27	0.59
9:AI:66:PHE:CZ	9:AI:92:VAL:HG13	2.37	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:70:LYS:O	9:AJ:74:ILE:HG13	2.02	0.59
10:AK:47:LEU:CG	10:AK:48:GLU:N	2.65	0.59
12:AM:61:VAL:HG12	12:AM:62:ASP:N	2.18	0.59
12:AM:88:PRO:O	12:AM:88:PRO:HG2	2.01	0.59
13:AN:1:MET:SD	13:AN:67:ARG:HD2	2.42	0.59
13:AN:31:ARG:O	13:AN:32:TYR:CG	2.55	0.59
13:AN:43:VAL:HG21	13:AN:53:LYS:O	2.03	0.59
13:AN:78:ARG:HB2	17:AR:21:PHE:HE1	1.65	0.59
13:AN:86:ILE:CG2	13:AN:87:ILE:N	2.65	0.59
13:AN:87:ILE:HG22	13:AN:88:ARG:C	2.28	0.59
14:AO:51:PHE:N	14:AO:51:PHE:CD1	2.71	0.59
14:AO:67:ARG:N	14:AO:67:ARG:NE	2.38	0.59
15:AP:47:GLU:O	15:AP:150:ASP:OD1	2.20	0.59
15:AP:64:ALA:HB2	15:AP:142:LYS:CE	2.26	0.59
16:AQ:39:SER:O	16:AQ:40:ASN:C	2.46	0.59
18:AS:75:TYR:CD1	18:AS:104:THR:OG1	2.56	0.59
20:AU:49:GLU:CD	20:AU:58:GLU:C	2.71	0.59
21:AV:67:LYS:HA	21:AV:67:LYS:CE	2.33	0.59
24:A0:73:VAL:HG12	24:A0:77:ARG:CZ	2.31	0.59
25:A1:43:ALA:CB	26:A2:75:LYS:HB2	2.32	0.59
25:A1:58:ARG:C	25:A1:62:ILE:HG12	2.27	0.59
26:A2:12:TYR:CZ	26:A2:14:VAL:HB	2.37	0.59
27:A3:37:LEU:CD1	27:A3:71:ASN:HD22	2.15	0.59
28:A4:55:ARG:O	28:A4:56:VAL:O	2.21	0.59
29:A5:8:LYS:O	29:A5:9:LYS:HG3	2.02	0.59
31:A7:19:ARG:O	31:A7:20:ALA:C	2.45	0.59
34:BA:44:G:C2'	34:BA:45:U:O5'	2.50	0.59
34:BA:198:G:O2'	34:BA:199:G:O4'	2.20	0.59
34:BA:320:C:O2'	34:BA:321:A:O4'	2.20	0.59
34:BA:329:A:O2'	34:BA:330:C:H5'	2.03	0.59
34:BA:389:A:N1	34:BA:390:C:H1'	2.18	0.59
34:BA:551:U:O5'	34:BA:551:U:C6	2.53	0.59
34:BA:610:G:O2'	34:BA:611:A:H5'	2.02	0.59
34:BA:620:C:C2'	34:BA:621:A:H5'	2.33	0.59
34:BA:705:U:C4	34:BA:706:A:N7	2.71	0.59
34:BA:772:U:H2'	34:BA:773:G:C8	2.37	0.59
34:BA:773:G:H2'	34:BA:774:G:O5'	2.02	0.59
34:BA:960:U:C4	34:BA:1225:A:C4	2.91	0.59
34:BA:981:U:C2	34:BA:982:U:C4	2.91	0.59
34:BA:1180:A:OP1	44:BL:102:LEU:O	2.20	0.59
34:BA:1255:G:N2	34:BA:1276:G:N2	2.50	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1436:U:O2'	34:BA:1437:C:H5'	2.02	0.59
34:BA:1476:G:C2	34:BA:1477:C:C4	2.91	0.59
34:BA:1504:G:H3'	34:BA:1504:G:C8	2.38	0.59
35:BB:58:A:O2'	35:BB:59:U:O5'	2.11	0.59
35:BC:55:U:O2	35:BC:58:A:N7	2.35	0.59
37:BE:162:ILE:HD13	37:BE:162:ILE:H	1.68	0.59
38:BF:64:VAL:CB	38:BF:99:VAL:HG11	2.21	0.59
38:BF:157:ILE:CD1	38:BF:164:ARG:NE	2.65	0.59
39:BG:173:TRP:CD1	39:BG:185:PHE:HE2	2.14	0.59
40:BH:125:SER:C	40:BH:127:ASN:H	2.07	0.59
42:BJ:104:LEU:HD22	42:BJ:134:ALA:CB	2.32	0.59
45:BM:12:ASP:C	45:BM:14:LYS:H	2.10	0.59
47:BO:32:PHE:CB	47:BO:84:LEU:HD11	2.32	0.59
48:BP:74:VAL:O	48:BP:78:ILE:HG13	2.02	0.59
49:BQ:21:TYR:N	49:BQ:21:TYR:HD1	2.01	0.59
52:BT:62:SER:CB	52:BT:72:ARG:NE	2.57	0.59
54:BV:15:LEU:CD1	54:BV:44:MET:HE1	2.32	0.59
1:AB:52:A:C2'	1:AB:53:A:H8	2.15	0.59
1:AB:82:G:HO2'	1:AB:83:G:C5'	2.14	0.59
2:AA:59:U:O4'	2:AA:73:A:C5	2.55	0.59
2:AA:123:G:C2	2:AA:124:G:N3	2.70	0.59
2:AA:131:G:C2	2:AA:149:A:N6	2.71	0.59
2:AA:261:G:O2'	2:AA:609:A:H4'	2.02	0.59
2:AA:288:C:OP2	2:AA:289:A:H5''	2.02	0.59
2:AA:559:G:O2'	2:AA:560:C:O4'	2.21	0.59
2:AA:566:U:H5''	26:A2:81:ARG:HH22	1.68	0.59
2:AA:585:G:H2'	2:AA:586:A:C8	2.38	0.59
2:AA:590:A:O3'	6:AF:97:ASP:OD2	2.19	0.59
2:AA:690:G:C6	2:AA:691:C:C4	2.90	0.59
2:AA:821:A:N6	2:AA:946:G:C2	2.70	0.59
2:AA:919:G:O2'	2:AA:920:G:O5'	2.20	0.59
2:AA:940:G:C2	2:AA:941:A:C8	2.90	0.59
2:AA:957:A:O2'	2:AA:958:U:P	2.61	0.59
2:AA:988:A:P	23:AX:11:SER:CB	2.90	0.59
2:AA:1021:A:H1'	2:AA:1123:C:H5'	1.84	0.59
2:AA:1081:U:O2'	11:AL:117:ASN:HB3	2.02	0.59
2:AA:1325:G:OP2	2:AA:1616:A:C8	2.55	0.59
2:AA:1425:G:H2'	2:AA:1426:G:N9	2.16	0.59
2:AA:1470:G:N2	2:AA:1522:G:C2	2.71	0.59
2:AA:1483:G:N3	2:AA:1483:G:H2'	2.17	0.59
2:AA:1543:A:C2'	2:AA:1544:C:O5'	2.51	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1650:G:N2	2:AA:1651:G:H1'	2.18	0.59
2:AA:1754:C:N3	2:AA:2717:G:H5'	2.17	0.59
2:AA:1788:C:O2'	2:AA:1789:A:C5'	2.47	0.59
2:AA:2049:G:O2'	2:AA:2050:C:P	2.60	0.59
2:AA:2127:G:C8	2:AA:2174:C:C5	2.91	0.59
2:AA:2150:U:O3'	2:AA:2151:G:H8	1.85	0.59
2:AA:2208:U:H2'	2:AA:2209:C:C6	2.38	0.59
2:AA:2252:G:C5	2:AA:2253:G:N7	2.70	0.59
2:AA:2273:A:N7	2:AA:2274:A:C4	2.70	0.59
2:AA:2567:G:N3	2:AA:2568:C:C5	2.71	0.59
2:AA:2575:C:H5'	5:AE:241:TRP:HE1	1.64	0.59
2:AA:2600:A:N3	2:AA:2600:A:H2'	2.18	0.59
2:AA:2811:G:H22	2:AA:2891:G:H1'	1.67	0.59
3:AC:100:ILE:CG2	3:AC:127:LEU:HG	2.33	0.59
4:AD:222:PRO:C	4:AD:224:VAL:N	2.47	0.59
5:AE:99:VAL:O	5:AE:100:TRP:CD2	2.55	0.59
5:AE:105:HIS:ND1	5:AE:108:LEU:HD21	2.18	0.59
6:AF:196:THR:HA	6:AF:236:THR:HG21	1.85	0.59
8:AH:104:LEU:CD1	8:AH:104:LEU:N	2.66	0.59
8:AH:136:ASP:O	8:AH:140:VAL:HG23	2.02	0.59
11:AL:56:VAL:HG12	11:AL:58:ILE:HG12	1.84	0.59
13:AN:11:ALA:O	13:AN:99:PHE:CB	2.46	0.59
13:AN:61:VAL:HG21	13:AN:111:PHE:CE2	2.37	0.59
15:AP:26:LYS:O	15:AP:28:ILE:HG13	2.02	0.59
15:AP:85:ILE:CD1	15:AP:85:ILE:O	2.50	0.59
19:AT:14:ALA:O	19:AT:18:MET:SD	2.61	0.59
19:AT:32:ALA:HB3	19:AT:37:VAL:HG23	1.83	0.59
20:AU:46:ASP:OD1	20:AU:98:VAL:HG13	2.02	0.59
22:AW:53:ILE:O	22:AW:56:ILE:HB	2.03	0.59
24:A0:51:LEU:HD22	24:A0:66:VAL:HG13	1.82	0.59
24:A0:77:ARG:HG3	24:A0:77:ARG:NH1	2.17	0.59
26:A2:3:ALA:HB2	26:A2:44:GLN:CD	2.27	0.59
26:A2:40:VAL:CB	26:A2:51:ALA:HB1	2.33	0.59
27:A3:68:VAL:CB	27:A3:72:LYS:HG3	2.32	0.59
27:A3:75:GLY:O	27:A3:76:ALA:HB2	2.01	0.59
30:A6:16:ALA:CB	30:A6:50:PHE:CZ	2.85	0.59
31:A7:21:ARG:NH1	31:A7:43:THR:H	2.00	0.59
34:BA:91:C:O2'	34:BA:92:C:H5'	2.01	0.59
34:BA:279:A:OP2	52:BT:95:TYR:OH	2.18	0.59
34:BA:572:A:C2	34:BA:864:A:C2	2.91	0.59
34:BA:588:G:C8	34:BA:753:A:C2	2.91	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:886:G:H5'	34:BA:915:A:N3	2.17	0.59
34:BA:1160:G:N1	34:BA:1161:C:C4	2.71	0.59
34:BA:1235:U:OP1	56:BX:3:LYS:HD3	2.02	0.59
34:BA:1260:C:H4'	34:BA:1284:C:H5'	1.83	0.59
34:BA:1329:A:C5'	48:BP:29:ARG:NE	2.62	0.59
35:BB:32:C:O5'	35:BB:32:C:C6	2.55	0.59
35:BB:54:U:C6	35:BB:54:U:C5'	2.85	0.59
35:BC:34:G:H2'	35:BC:35:A:O4'	2.02	0.59
35:BC:62:A:C2'	35:BC:63:C:O5'	2.50	0.59
35:BC:75:C:O5'	35:BC:76:A:P	2.61	0.59
37:BE:19:HIS:CD2	37:BE:20:GLU:HG2	2.38	0.59
37:BE:187:LEU:HD22	37:BE:188:ALA:H	1.67	0.59
38:BF:12:LEU:HA	38:BF:16:ARG:O	2.03	0.59
38:BF:110:ASN:O	38:BF:141:VAL:HG22	2.03	0.59
39:BG:19:LEU:O	39:BG:31:CYS:SG	2.61	0.59
39:BG:62:GLN:O	39:BG:66:ARG:HD2	2.01	0.59
39:BG:155:LEU:O	39:BG:158:ILE:HB	2.03	0.59
41:BI:3:ARG:CB	41:BI:66:GLU:HB3	2.30	0.59
41:BI:85:VAL:CG1	41:BI:88:VAL:HG23	2.33	0.59
42:BJ:75:VAL:CG1	42:BJ:76:ARG:N	2.66	0.59
42:BJ:108:ALA:O	42:BJ:109:ASN:C	2.45	0.59
42:BJ:136:LYS:NZ	42:BJ:137:LYS:CG	2.65	0.59
43:BK:126:LYS:CE	43:BK:127:LEU:HD23	2.31	0.59
49:BQ:36:PHE:HD1	49:BQ:36:PHE:C	2.10	0.59
51:BS:61:SER:OG	51:BS:62:VAL:N	2.32	0.59
55:BW:94:ALA:O	55:BW:95:ALA:CB	2.51	0.59
1:AB:80:U:H2'	1:AB:81:G:H8	1.68	0.59
1:AB:99:A:C2	1:AB:100:G:C5	2.91	0.59
2:AA:85:G:H1'	2:AA:103:A:N1	2.17	0.59
2:AA:152:G:N1	2:AA:175:G:N1	2.48	0.59
2:AA:272:G:C2	2:AA:366:C:C5	2.91	0.59
2:AA:448:U:HO2'	6:AF:84:VAL:HG12	1.67	0.59
2:AA:483:A:H3'	2:AA:484:C:C6	2.38	0.59
2:AA:510:C:C2	2:AA:511:U:C6	2.90	0.59
2:AA:602:G:H2'	2:AA:655:A:C2	2.38	0.59
2:AA:612:G:H2'	2:AA:615:G:C2	2.38	0.59
2:AA:628:G:C2	2:AA:629:G:C5	2.91	0.59
2:AA:729:G:N1	2:AA:1775:U:N3	2.50	0.59
2:AA:735:A:H61	2:AA:760:G:H22	1.50	0.59
2:AA:804:A:O3'	2:AA:806:C:N4	2.35	0.59
2:AA:864:G:C2'	2:AA:865:C:O4'	2.51	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1008:C:HO2'	2:AA:1009:A:P	2.26	0.59
2:AA:1030:G:C5	2:AA:1125:G:N2	2.70	0.59
2:AA:1109:C:C4	2:AA:1110:G:C2	2.91	0.59
2:AA:1131:G:N2	2:AA:1132:A:C6	2.71	0.59
2:AA:1422:G:C2	2:AA:1576:U:C2	2.91	0.59
2:AA:1484:G:H1	2:AA:1505:C:N4	2.00	0.59
2:AA:1785:A:OP2	2:AA:1982:C:H5'	2.03	0.59
2:AA:1856:G:O6	2:AA:1857:G:N2	2.31	0.59
2:AA:2056:G:H22	2:AA:2057:A:H1'	1.66	0.59
2:AA:2097:C:C4	2:AA:2193:G:C6	2.90	0.59
2:AA:2121:G:N2	3:AC:168:THR:CG2	2.64	0.59
2:AA:2132:U:OP2	3:AC:6:ARG:N	2.36	0.59
2:AA:2192:G:N1	2:AA:2193:G:N7	2.50	0.59
2:AA:2310:A:C6	7:AG:55:LYS:HD3	2.38	0.59
2:AA:2336:A:C2'	2:AA:2337:G:H5'	2.29	0.59
2:AA:2437:U:O2'	2:AA:2438:U:O5'	2.20	0.59
2:AA:2459:A:C8	2:AA:2460:U:C6	2.91	0.59
2:AA:2463:C:O2'	2:AA:2464:C:H5'	2.02	0.59
2:AA:2549:G:C2'	2:AA:2550:G:H5'	2.33	0.59
2:AA:2641:G:N1	2:AA:2773:C:O2	2.25	0.59
2:AA:2877:G:H3'	2:AA:2878:U:H5	1.65	0.59
4:AD:76:ARG:HH11	4:AD:113:MET:CB	2.07	0.59
5:AE:193:PHE:CE2	5:AE:199:ALA:HB1	2.38	0.59
5:AE:216:ARG:CD	5:AE:253:GLN:CA	2.81	0.59
7:AG:11:HIS:C	7:AG:13:MET:H	2.11	0.59
9:AI:15:VAL:HG11	9:AI:49:ALA:HB2	1.85	0.59
9:AI:62:VAL:CG2	9:AI:101:VAL:HG22	2.31	0.59
9:AI:66:PHE:CZ	9:AI:92:VAL:HG22	2.38	0.59
10:AK:93:ILE:HG13	10:AK:121:ILE:H	1.66	0.59
11:AL:93:LYS:NZ	21:AV:108:VAL:HG12	2.18	0.59
15:AP:134:PHE:O	15:AP:137:ARG:CB	2.44	0.59
20:AU:53:GLY:O	20:AU:56:ALA:N	2.31	0.59
20:AU:112:LEU:O	20:AU:113:GLU:HB2	2.02	0.59
23:AX:55:ARG:NH1	23:AX:55:ARG:HB2	2.18	0.59
24:A0:90:ARG:NH2	24:A0:117:VAL:HG13	2.18	0.59
25:A1:20:ARG:HH12	26:A2:75:LYS:HE3	1.66	0.59
25:A1:76:TYR:O	25:A1:80:ILE:CG1	2.51	0.59
25:A1:92:ARG:HA	25:A1:95:LEU:HD11	1.83	0.59
26:A2:6:GLN:CD	26:A2:10:LYS:HG2	2.28	0.59
27:A3:38:VAL:HG12	27:A3:39:ARG:N	2.17	0.59
29:A5:43:HIS:C	29:A5:44:HIS:ND1	2.61	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:8:A:C4'	40:BH:102:ALA:HA	2.32	0.59
34:BA:44:G:C6	34:BA:399:G:C6	2.90	0.59
34:BA:254:G:H21	52:BT:16:GLN:NE2	2.01	0.59
34:BA:370:C:C2	34:BA:371:G:C8	2.91	0.59
34:BA:394:G:C6	34:BA:395:C:N4	2.70	0.59
34:BA:688:G:H1	34:BA:699:C:H42	1.49	0.59
34:BA:720:C:O5'	34:BA:720:C:H6	1.86	0.59
34:BA:731:G:O2'	34:BA:732:C:H5'	2.03	0.59
34:BA:739:C:H2'	34:BA:740:U:C5'	2.32	0.59
34:BA:795:C:H4'	34:BA:1506:U:O2	2.03	0.59
34:BA:855:G:C5	34:BA:856:C:C5	2.91	0.59
34:BA:880:C:H2'	34:BA:881:G:C5'	2.33	0.59
34:BA:951:G:O2'	34:BA:972:C:H5	1.86	0.59
34:BA:957:U:H3	34:BA:960:U:H5'	1.66	0.59
34:BA:1062:U:C2	34:BA:1063:C:C5	2.91	0.59
34:BA:1210:C:C5'	34:BA:1214:C:H42	2.13	0.59
34:BA:1402:C:N3	34:BA:1500:A:N6	2.51	0.59
34:BA:1429:C:O2'	34:BA:1430:C:H5'	2.01	0.59
34:BA:1486:G:C2	34:BA:1487:G:C4	2.91	0.59
37:BE:19:HIS:CD2	37:BE:20:GLU:CD	2.80	0.59
37:BE:102:LEU:H	37:BE:102:LEU:CD1	2.15	0.59
40:BH:56:GLN:HE21	40:BH:56:GLN:N	2.00	0.59
43:BK:60:ARG:CG	43:BK:61:VAL:N	2.66	0.59
43:BK:104:ARG:O	43:BK:107:LEU:HD23	2.02	0.59
45:BM:99:LYS:O	45:BM:100:THR:HG22	2.03	0.59
46:BN:42:TRP:HZ3	46:BN:47:VAL:CG2	2.16	0.59
47:BO:55:VAL:C	47:BO:70:ILE:HD11	2.28	0.59
48:BP:15:VAL:HG21	48:BP:34:LEU:HD21	1.85	0.59
54:BV:78:ARG:O	54:BV:79:THR:OG1	2.19	0.59
55:BW:49:ALA:HB3	55:BW:99:LEU:CD1	2.32	0.59
1:AB:52:A:O2'	1:AB:53:A:H5'	2.02	0.59
2:AA:5:A:H2'	2:AA:6:A:O4'	2.03	0.59
2:AA:71:A:C5'	2:AA:72:U:H3'	2.32	0.59
2:AA:155:C:O2'	2:AA:161:U:P	2.60	0.59
2:AA:458:G:H5'	31:A7:39:ARG:HD2	1.84	0.59
2:AA:492:A:N1	18:AS:49:LYS:NZ	2.51	0.59
2:AA:511:U:H5	2:AA:512:G:N2	2.00	0.59
2:AA:604:G:H21	2:AA:657:U:C4'	2.16	0.59
2:AA:637:A:O3'	2:AA:638:G:O4'	2.21	0.59
2:AA:801:G:N7	6:AF:54:LEU:HD22	2.18	0.59
2:AA:886:C:H4'	2:AA:887:A:C5'	2.33	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:932:G:P	23:AX:29:ARG:HH21	2.25	0.59
2:AA:973:A:N6	26:A2:81:ARG:HG3	2.18	0.59
2:AA:1226:G:H3'	2:AA:1226:G:C8	2.38	0.59
2:AA:1376:C:C2	2:AA:1377:G:C8	2.90	0.59
2:AA:1628:G:N1	2:AA:1629:U:C4	2.71	0.59
2:AA:1636:C:H1'	2:AA:1761:C:H1'	1.84	0.59
2:AA:1665:A:C2	2:AA:1666:G:C4	2.90	0.59
2:AA:1677:A:C2	2:AA:1678:G:C4	2.91	0.59
2:AA:1718:G:N2	2:AA:1742:C:O2	2.35	0.59
2:AA:1770:G:C6	2:AA:1983:C:C4	2.91	0.59
2:AA:1819:A:O4'	2:AA:1821:A:C5	2.56	0.59
2:AA:1904:G:C2	2:AA:1905:C:C6	2.90	0.59
2:AA:2015:A:C8	29:A5:6:VAL:HG11	2.38	0.59
2:AA:2015:A:H3'	2:AA:2016:U:H5	1.68	0.59
2:AA:2320:A:C5	16:AQ:9:PRO:HB3	2.36	0.59
2:AA:2394:C:H2'	2:AA:2395:C:C6	2.38	0.59
2:AA:2527:C:H5''	33:A9:30:VAL:CG1	2.32	0.59
2:AA:2579:C:C4'	5:AE:231:TRP:CH2	2.85	0.59
2:AA:2695:C:C2'	2:AA:2696:U:C6	2.85	0.59
2:AA:2772:C:H2'	2:AA:2773:C:C6	2.37	0.59
2:AA:2844:G:H2'	2:AA:2844:G:N3	2.17	0.59
4:AD:140:VAL:HG13	4:AD:191:VAL:HG12	1.83	0.59
4:AD:166:LYS:HD2	4:AD:171:VAL:HG11	1.84	0.59
5:AE:198:TYR:CE1	5:AE:267:ARG:HB3	2.37	0.59
5:AE:228:ARG:O	5:AE:230:GLY:N	2.36	0.59
6:AF:56:THR:O	6:AF:79:ARG:NE	2.36	0.59
6:AF:165:ASP:O	6:AF:168:ARG:CB	2.51	0.59
7:AG:156:ARG:HG2	7:AG:156:ARG:O	2.03	0.59
8:AH:40:MET:HB2	8:AH:64:HIS:CE1	2.38	0.59
8:AH:102:LEU:CD2	8:AH:114:ILE:O	2.50	0.59
8:AH:123:GLU:N	8:AH:123:GLU:OE2	2.35	0.59
10:AK:124:LEU:HG	10:AK:145:VAL:C	2.27	0.59
13:AN:7:ARG:NH2	13:AN:44:LYS:HD3	2.17	0.59
13:AN:87:ILE:HG23	13:AN:92:SER:O	2.03	0.59
13:AN:87:ILE:HG21	13:AN:91:LYS:HA	1.83	0.59
14:AO:94:ARG:CZ	14:AO:118:LEU:C	2.76	0.59
15:AP:32:LYS:HE3	21:AV:172:LEU:CD2	2.33	0.59
15:AP:67:ALA:N	15:AP:70:ARG:NE	2.51	0.59
16:AQ:31:LYS:HB3	16:AQ:32:PRO:CD	2.30	0.59
16:AQ:110:THR:CG2	16:AQ:114:LYS:HB2	2.33	0.59
17:AR:37:GLU:HG2	17:AR:38:ASN:N	2.17	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:12:ILE:HD13	18:AS:42:ARG:HD3	1.84	0.59
18:AS:34:ASN:HD21	29:A5:39:LYS:HB2	1.67	0.59
18:AS:43:GLY:O	18:AS:46:PHE:N	2.36	0.59
19:AT:10:VAL:HG13	19:AT:15:MET:HG2	1.85	0.59
21:AV:62:PHE:HB2	21:AV:85:MET:SD	2.43	0.59
21:AV:105:GLN:OE1	21:AV:141:MET:SD	2.61	0.59
23:AX:20:LYS:HA	23:AX:23:LEU:CD1	2.32	0.59
24:A0:61:HIS:O	24:A0:64:ARG:CG	2.50	0.59
24:A0:75:LEU:O	24:A0:78:LYS:N	2.36	0.59
26:A2:73:LYS:HG2	26:A2:87:ARG:HG2	1.84	0.59
28:A4:11:PRO:HG2	28:A4:12:CYS:SG	2.43	0.59
28:A4:18:GLY:CA	28:A4:19:GLN:NE2	2.65	0.59
30:A6:5:GLY:O	30:A6:7:ARG:N	2.34	0.59
32:A8:26:LYS:CD	32:A8:44:LYS:HA	2.30	0.59
34:BA:152:A:N7	34:BA:153:C:C5	2.71	0.59
34:BA:192:U:N3	34:BA:193:C:N4	2.51	0.59
34:BA:246:A:O2'	34:BA:247:G:OP2	2.21	0.59
34:BA:246:A:O2'	34:BA:247:G:P	2.60	0.59
34:BA:253:U:H2'	34:BA:254:G:C8	2.38	0.59
34:BA:373:A:C6	34:BA:482:A:C6	2.91	0.59
34:BA:390:C:O2'	34:BA:391:G:O5'	2.21	0.59
34:BA:395:C:O2'	34:BA:396:G:H5'	2.03	0.59
34:BA:411:A:C6	34:BA:429:U:C4	2.91	0.59
34:BA:738:C:OP2	41:BI:92:LYS:NZ	2.31	0.59
34:BA:933:G:H8	34:BA:933:G:O5'	1.86	0.59
34:BA:1077:G:C2	34:BA:1079:G:H3'	2.38	0.59
34:BA:1128:C:O2	34:BA:1130:A:N6	2.35	0.59
34:BA:1247:U:O2'	34:BA:1248:A:H5'	2.03	0.59
34:BA:1507:A:O2'	34:BA:1508:G:H5'	2.02	0.59
35:BB:58:A:C2	35:BB:61:C:N1	2.70	0.59
35:BC:17:U:C5	35:BC:19:G:H8	2.20	0.59
35:BC:35:A:C2	36:B1:62:G:C6	2.91	0.59
37:BE:16:HIS:NE2	37:BE:210:SER:HA	2.18	0.59
37:BE:118:LEU:O	37:BE:120:ALA:N	2.36	0.59
37:BE:170:GLU:C	37:BE:174:VAL:HG23	2.27	0.59
39:BG:7:PRO:O	39:BG:10:ARG:HB3	2.02	0.59
39:BG:31:CYS:O	39:BG:33:MET:SD	2.60	0.59
39:BG:61:LYS:HZ1	39:BG:65:ARG:CD	2.16	0.59
40:BH:11:ILE:HB	40:BH:31:LEU:HD22	1.84	0.59
45:BM:25:GLU:HA	45:BM:28:ARG:HB2	1.83	0.59
46:BN:92:GLU:C	46:BN:94:ALA:N	2.52	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:117:ARG:HH21	47:BO:123:LYS:C	2.11	0.59
48:BP:8:GLU:HG3	48:BP:22:ILE:HD11	1.85	0.59
51:BS:51:VAL:O	51:BS:52:ASP:C	2.45	0.59
53:BU:81:PHE:O	53:BU:82:THR:HG22	2.03	0.59
56:BX:16:GLY:O	56:BX:17:THR:C	2.46	0.59
1:AB:30:C:C4'	1:AB:58:A:H2	2.14	0.59
1:AB:35:U:H3'	1:AB:35:U:C6	2.38	0.59
2:AA:5:A:O2'	2:AA:6:A:H5'	2.02	0.59
2:AA:16:G:O4'	29:A5:18:MET:HE1	2.01	0.59
2:AA:23:G:C2	2:AA:24:G:C1'	2.86	0.59
2:AA:144:C:O2'	2:AA:145:G:C5'	2.51	0.59
2:AA:271:G:H1	2:AA:404:C:N4	2.00	0.59
2:AA:290:G:H2'	2:AA:291:C:O4'	2.03	0.59
2:AA:430:G:P	2:AA:430:G:H8	2.26	0.59
2:AA:482:A:C8	2:AA:506:G:N2	2.71	0.59
2:AA:705:A:N6	2:AA:727:A:C1'	2.66	0.59
2:AA:760:G:O2'	2:AA:761:A:H5'	2.03	0.59
2:AA:911:A:C4	15:AP:16:ARG:HG2	2.38	0.59
2:AA:930:U:OP1	23:AX:37:LEU:HD11	2.03	0.59
2:AA:1014:U:C2	2:AA:1149:G:N2	2.71	0.59
2:AA:1025:G:C8	2:AA:1134:G:C4'	2.85	0.59
2:AA:1186:G:H2'	2:AA:1187:G:H8	1.68	0.59
2:AA:1216:G:OP1	25:A1:11:ARG:HD3	2.03	0.59
2:AA:1259:G:C4	2:AA:1260:G:C8	2.91	0.59
2:AA:1567:A:C4	4:AD:84:PRO:HB3	2.37	0.59
2:AA:1569:A:N6	2:AA:1570:A:N6	2.50	0.59
2:AA:1672:C:C2'	2:AA:1673:U:H5'	2.33	0.59
2:AA:1688:U:O2'	2:AA:1689:A:OP2	2.20	0.59
2:AA:1762:A:C8	2:AA:1762:A:C3'	2.82	0.59
2:AA:1775:U:H2'	2:AA:1776:G:C5'	2.33	0.59
2:AA:1781:C:C6	2:AA:1781:C:C3'	2.80	0.59
2:AA:1872:A:H2'	2:AA:1878:G:C4'	2.33	0.59
2:AA:1883:G:N1	2:AA:1884:A:H2	2.00	0.59
2:AA:2049:G:O2'	5:AE:253:GLN:OE1	2.20	0.59
2:AA:2110:G:N1	2:AA:2179:C:O2	2.35	0.59
2:AA:2118:U:C6	2:AA:2118:U:C3'	2.85	0.59
2:AA:2182:G:C2	2:AA:2183:C:N3	2.71	0.59
2:AA:2247:A:H2'	2:AA:2248:C:O4'	2.03	0.59
2:AA:2261:C:OP2	27:A3:14:ARG:CD	2.51	0.59
2:AA:2350:C:H2'	2:AA:2351:G:C8	2.38	0.59
2:AA:2358:G:N3	2:AA:2358:G:C2'	2.58	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2674:G:O2'	13:AN:30:ARG:HG3	2.03	0.59
2:AA:2793:G:H2'	2:AA:2794:C:H6	1.68	0.59
2:AA:2802:G:H2'	2:AA:2803:C:C6	2.31	0.59
3:AC:110:PHE:CE1	3:AC:136:LEU:HD22	2.38	0.59
4:AD:158:GLY:CA	4:AD:194:VAL:HG21	2.32	0.59
5:AE:102:ASP:HA	5:AE:104:PHE:CD2	2.37	0.59
5:AE:211:GLN:H	5:AE:216:ARG:NH2	1.99	0.59
5:AE:234:ARG:O	5:AE:235:ILE:C	2.42	0.59
5:AE:247:ARG:HD3	5:AE:249:THR:HG21	1.85	0.59
6:AF:168:ARG:NH1	6:AF:209:GLY:O	2.35	0.59
6:AF:197:SER:O	6:AF:198:ASP:HB2	2.02	0.59
7:AG:107:GLY:C	7:AG:129:ASP:H	2.11	0.59
7:AG:151:ILE:HG21	7:AG:156:ARG:CZ	2.32	0.59
8:AH:112:VAL:CG1	8:AH:113:GLU:N	2.65	0.59
9:AJ:69:ASN:CB	9:AJ:122:GLY:HA3	2.29	0.59
15:AP:67:ALA:O	15:AP:71:PHE:HD1	1.86	0.59
16:AQ:56:ASP:OD1	16:AQ:57:THR:N	2.36	0.59
16:AQ:58:LEU:O	16:AQ:60:SER:N	2.35	0.59
17:AR:53:ASP:C	17:AR:56:ARG:HG3	2.28	0.59
18:AS:81:ALA:C	18:AS:82:LEU:HD13	2.28	0.59
18:AS:88:ARG:CD	18:AS:91:GLY:O	2.41	0.59
19:AT:18:MET:CE	19:AT:25:GLN:H	2.14	0.59
19:AT:45:TYR:O	19:AT:46:ASP:C	2.46	0.59
20:AU:31:LEU:CB	20:AU:101:LEU:HD12	2.29	0.59
21:AV:172:LEU:HD23	21:AV:173:PRO:N	2.18	0.59
26:A2:35:LEU:O	26:A2:60:VAL:CA	2.50	0.59
26:A2:37:ALA:O	26:A2:58:ALA:CB	2.51	0.59
28:A4:33:VAL:CG1	28:A4:34:ASP:H	2.16	0.59
29:A5:40:LYS:HZ1	29:A5:46:CYS:HB2	1.61	0.59
34:BA:27:G:C2	34:BA:557:G:N3	2.71	0.59
34:BA:69:G:H2'	34:BA:70:G:C8	2.37	0.59
34:BA:122:G:OP1	34:BA:122:G:C8	2.56	0.59
34:BA:187:C:O4'	55:BW:85:MET:SD	2.61	0.59
34:BA:308:C:C2'	34:BA:309:G:O5'	2.49	0.59
34:BA:440:A:OP2	34:BA:440:A:H8	1.84	0.59
34:BA:598:U:C2	34:BA:599:C:C6	2.91	0.59
34:BA:676:A:C4	34:BA:677:U:C5	2.91	0.59
34:BA:948:C:OP1	48:BP:109:THR:N	2.32	0.59
34:BA:961:U:H3	34:BA:974:A:N6	1.89	0.59
34:BA:1032:G:H2'	34:BA:1033:G:H8	1.64	0.59
34:BA:1105:A:O2'	34:BA:1106:G:H5'	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1147:C:N4	34:BA:1148:U:O4	2.36	0.59
34:BA:1409:C:H2'	34:BA:1410:G:C8	2.37	0.59
34:BA:1473:A:O2'	34:BA:1474:G:H5'	2.02	0.59
34:BA:1473:A:C2'	34:BA:1474:G:O5'	2.51	0.59
35:BB:31:A:N3	35:BB:31:A:H2'	2.18	0.59
37:BE:153:ARG:NH1	37:BE:154:LEU:O	2.36	0.59
37:BE:200:ILE:O	37:BE:202:PRO:HD3	2.01	0.59
40:BH:144:THR:O	40:BH:145:LYS:C	2.46	0.59
41:BI:57:GLN:CD	41:BI:57:GLN:N	2.60	0.59
42:BJ:29:LYS:NZ	42:BJ:102:ARG:HB2	2.17	0.59
42:BJ:45:ASP:HB2	42:BJ:117:ALA:HB1	1.84	0.59
43:BK:32:LYS:O	43:BK:35:ILE:HB	2.03	0.59
43:BK:100:ILE:HD12	43:BK:100:ILE:H	1.67	0.59
43:BK:120:THR:O	43:BK:121:ASP:C	2.45	0.59
46:BN:77:MET:CE	46:BN:80:VAL:HG22	2.33	0.59
46:BN:99:GLN:CB	46:BN:105:VAL:HG11	2.33	0.59
48:BP:44:ARG:N	48:BP:47:ASP:OD2	2.36	0.59
48:BP:69:GLU:HA	48:BP:72:ALA:CB	2.32	0.59
50:BR:15:PHE:CZ	50:BR:85:LEU:HD21	2.38	0.59
55:BW:102:GLY:O	55:BW:104:LEU:N	2.35	0.59
1:AB:9:G:C5	1:AB:112:G:C6	2.91	0.58
1:AB:46:A:H8	1:AB:46:A:O5'	1.85	0.58
2:AA:181:A:C4	2:AA:182:A:N7	2.70	0.58
2:AA:186:G:C2	2:AA:187:G:C8	2.90	0.58
2:AA:207:A:C2	2:AA:208:C:N1	2.71	0.58
2:AA:270:A:N1	2:AA:370:G:C1'	2.64	0.58
2:AA:715:G:C2	2:AA:716:A:N1	2.70	0.58
2:AA:722:A:H2'	2:AA:723:G:H8	1.68	0.58
2:AA:871:U:H4'	15:AP:90:PHE:CZ	2.36	0.58
2:AA:928:G:C2'	2:AA:929:G:C8	2.85	0.58
2:AA:1040:C:O2	2:AA:1040:C:C2'	2.51	0.58
2:AA:1084:A:C5	9:AI:25:LEU:HD13	2.38	0.58
2:AA:1085:A:P	9:AI:35:ALA:N	2.76	0.58
2:AA:1139:G:H2'	2:AA:1140:C:H5'	1.84	0.58
2:AA:1223:C:C2	2:AA:1225:C:OP2	2.55	0.58
2:AA:1255:U:C5'	2:AA:1256:G:H5''	2.33	0.58
2:AA:1370:C:H2'	2:AA:1370:C:O2	2.03	0.58
2:AA:1443:G:C2	2:AA:1444:G:H1'	2.37	0.58
2:AA:1492:G:N2	2:AA:1493:C:N3	2.50	0.58
2:AA:1496:A:C2	2:AA:1497:U:C4	2.91	0.58
2:AA:1604:C:C2'	2:AA:1605:C:H5'	2.33	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1614:A:N6	18:AS:88:ARG:N	2.51	0.58
2:AA:1678:G:H22	2:AA:1989:G:N2	2.01	0.58
2:AA:1846:G:N2	2:AA:1895:C:C6	2.70	0.58
2:AA:1859:A:N6	2:AA:1883:G:O2'	2.30	0.58
2:AA:1912:A:C2	2:AA:1919:A:C4	2.91	0.58
2:AA:1993:U:O2'	5:AE:224:GLY:HA3	2.03	0.58
2:AA:2012:G:H5'	18:AS:98:LYS:HZ3	1.67	0.58
2:AA:2022:U:H3	29:A5:9:LYS:CE	2.14	0.58
2:AA:2022:U:O2'	2:AA:2023:G:OP1	2.19	0.58
2:AA:2100:G:C6	2:AA:2101:G:C5	2.91	0.58
2:AA:2316:C:O2'	7:AG:151:ILE:CG1	2.51	0.58
2:AA:2496:C:P	15:AP:101:MET:HE2	2.42	0.58
2:AA:2503:A:H5'	2:AA:2504:U:OP2	2.03	0.58
2:AA:2507:C:C2	2:AA:2583:G:C2	2.91	0.58
2:AA:2587:A:HO2'	2:AA:2588:G:H5'	1.64	0.58
2:AA:2633:G:H5''	2:AA:2812:G:H5'	1.85	0.58
2:AA:2811:G:H2'	2:AA:2812:G:O4'	2.03	0.58
3:AC:58:VAL:CG1	3:AC:199:HIS:HB3	2.33	0.58
3:AC:131:LEU:HA	3:AC:136:LEU:HB2	1.85	0.58
4:AD:81:GLU:CG	4:AD:92:LEU:HD13	2.33	0.58
4:AD:139:LEU:O	4:AD:191:VAL:CB	2.43	0.58
5:AE:66:GLU:HB3	13:AN:72:PRO:O	2.03	0.58
6:AF:150:THR:HB	6:AF:207:LEU:CD2	2.33	0.58
7:AG:100:ASP:O	7:AG:102:GLY:N	2.33	0.58
8:AH:34:ARG:HH12	8:AH:73:ASN:HB2	1.68	0.58
8:AH:102:LEU:HD23	8:AH:102:LEU:H	1.67	0.58
9:AI:106:VAL:HG12	9:AI:110:GLU:HB2	1.86	0.58
9:AJ:60:ASP:HB2	9:AJ:128:LYS:CD	2.33	0.58
9:AJ:111:ALA:C	9:AJ:115:LYS:HE3	2.28	0.58
10:AK:134:HIS:O	10:AK:137:VAL:O	2.20	0.58
10:AK:147:GLU:O	10:AK:148:GLN:C	2.45	0.58
11:AL:11:LEU:HD11	11:AL:28:LEU:CD1	2.33	0.58
11:AL:71:LYS:HB3	11:AL:115:ASP:OD1	2.03	0.58
12:AM:88:PRO:HD2	12:AM:94:GLY:HA2	1.83	0.58
14:AO:55:GLN:HE21	14:AO:56:LYS:HB3	1.67	0.58
14:AO:95:ASP:O	14:AO:96:VAL:O	2.20	0.58
15:AP:58:HIS:O	15:AP:59:ASN:C	2.46	0.58
15:AP:88:PHE:N	15:AP:88:PHE:CD1	2.67	0.58
16:AQ:71:TRP:O	16:AQ:72:GLU:O	2.21	0.58
16:AQ:118:ILE:O	16:AQ:121:GLY:HA3	2.03	0.58
17:AR:38:ASN:O	17:AR:39:ASN:C	2.39	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:88:ARG:HA	18:AS:93:ALA:CA	2.33	0.58
19:AT:28:VAL:O	19:AT:29:ASP:C	2.46	0.58
20:AU:103:LEU:O	20:AU:105:ASP:N	2.36	0.58
21:AV:19:ILE:HG13	21:AV:79:ILE:CG2	2.31	0.58
21:AV:98:VAL:HG22	21:AV:134:LEU:HD22	1.83	0.58
26:A2:5:ILE:N	26:A2:12:TYR:CD2	2.71	0.58
26:A2:6:GLN:NE2	26:A2:10:LYS:HA	2.17	0.58
26:A2:50:ASP:HB2	26:A2:53:LYS:HG3	1.84	0.58
26:A2:65:ARG:HD2	26:A2:94:LYS:HD3	1.85	0.58
34:BA:55:A:C2	34:BA:56:U:H1'	2.38	0.58
34:BA:122:G:H2'	34:BA:123:C:O4'	2.02	0.58
34:BA:280:C:O2	52:BT:39:SER:N	2.34	0.58
34:BA:456:C:H42	34:BA:476:G:H1	1.51	0.58
34:BA:660:G:O2'	34:BA:661:G:O5'	2.21	0.58
34:BA:668:G:N3	50:BR:46:HIS:NE2	2.50	0.58
34:BA:722:A:H2'	34:BA:724:G:C8	2.38	0.58
34:BA:1191:A:OP1	38:BF:4:LYS:HG3	2.03	0.58
34:BA:1288:A:H2	34:BA:1352:C:O2	1.86	0.58
34:BA:1312:G:N7	54:BV:2:PRO:O	2.36	0.58
34:BA:1408:A:N6	34:BA:1409:C:N4	2.51	0.58
35:BB:29:A:C5	35:BB:42:G:C2	2.91	0.58
35:BB:41:U:N3	35:BB:42:G:C5	2.71	0.58
36:B1:14:U:O4	36:B1:42:G:O6	2.21	0.58
36:B1:59:A:O2'	36:B1:60:A:OP1	2.21	0.58
37:BE:28:PHE:HD2	37:BE:190:THR:HA	1.66	0.58
37:BE:208:ILE:HA	37:BE:211:ILE:HB	1.84	0.58
39:BG:14:ARG:HG3	39:BG:15:GLU:OE1	2.03	0.58
39:BG:187:ARG:HE	39:BG:188:LEU:HG	1.69	0.58
40:BH:58:ALA:O	40:BH:59:GLY:C	2.46	0.58
40:BH:84:PHE:HE2	40:BH:130:ASN:OD1	1.84	0.58
40:BH:103:GLY:HA2	40:BH:107:ARG:NH2	2.18	0.58
42:BJ:68:ASN:HB3	42:BJ:135:VAL:CG2	2.33	0.58
42:BJ:104:LEU:HD22	42:BJ:104:LEU:N	2.17	0.58
43:BK:69:ARG:NH1	43:BK:73:ASP:O	2.36	0.58
43:BK:123:GLU:HG2	43:BK:124:ALA:H	1.67	0.58
45:BM:24:VAL:CA	45:BM:34:VAL:HG21	2.29	0.58
46:BN:28:THR:HG22	46:BN:29:ILE:N	2.16	0.58
46:BN:46:GLY:N	46:BN:55:LYS:HD3	2.17	0.58
46:BN:54:ARG:HD3	46:BN:54:ARG:H	1.68	0.58
47:BO:28:LYS:HE3	47:BO:33:ARG:NH1	2.17	0.58
47:BO:117:ARG:NE	47:BO:123:LYS:C	2.60	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:24:GLY:HA3	48:BP:66:LEU:CD2	2.32	0.58
48:BP:65:LYS:C	48:BP:66:LEU:HD23	2.27	0.58
50:BR:13:GLN:O	50:BR:14:GLU:C	2.46	0.58
51:BS:19:ILE:O	51:BS:36:ILE:HG13	2.02	0.58
52:BT:95:TYR:O	52:BT:97:SER:N	2.36	0.58
53:BU:31:LEU:HD22	53:BU:66:LEU:HA	1.85	0.58
55:BW:86:ARG:HG3	55:BW:87:LYS:N	2.18	0.58
55:BW:102:GLY:C	55:BW:104:LEU:H	2.11	0.58
2:AA:27:G:H1	2:AA:512:G:H2'	1.61	0.58
2:AA:137:C:H2'	2:AA:137:C:O2	2.03	0.58
2:AA:144:C:H5''	19:AT:36:GLU:OE1	2.03	0.58
2:AA:162:U:C5'	2:AA:171:G:N3	2.66	0.58
2:AA:244:A:N6	2:AA:245:G:N3	2.51	0.58
2:AA:270:A:C6	2:AA:370:G:C8	2.91	0.58
2:AA:280:C:N3	2:AA:360:G:O6	2.36	0.58
2:AA:382:G:H1	2:AA:392:C:H42	1.50	0.58
2:AA:415:A:H2'	2:AA:416:C:H6	1.68	0.58
2:AA:530:G:HO2'	2:AA:531:C:C4'	2.15	0.58
2:AA:559:G:H5'	2:AA:559:G:C8	2.34	0.58
2:AA:718:A:C5'	2:AA:719:C:C5	2.83	0.58
2:AA:845:G:C5'	2:AA:846:C:OP1	2.50	0.58
2:AA:882:G:H5'	35:BB:19:G:O6	2.03	0.58
2:AA:1044:G:C2	2:AA:1111:A:H1'	2.38	0.58
2:AA:1083:U:OP2	2:AA:1083:U:C6	2.54	0.58
2:AA:1134:G:N3	2:AA:1134:G:H2'	2.18	0.58
2:AA:1149:G:H2'	2:AA:1150:C:C6	2.37	0.58
2:AA:1196:C:H2'	2:AA:1197:G:C8	2.38	0.58
2:AA:1309:G:H5''	31:A7:7:PRO:O	2.03	0.58
2:AA:1364:G:H5''	2:AA:1809:A:C8	2.38	0.58
2:AA:1368:G:OP1	31:A7:25:LYS:CE	2.50	0.58
2:AA:1492:G:C4'	4:AD:97:ASP:OD1	2.51	0.58
2:AA:1527:G:H1'	2:AA:1545:A:N6	2.19	0.58
2:AA:1544:C:O2'	2:AA:1545:A:C4'	2.46	0.58
2:AA:1627:G:H2'	2:AA:1628:G:H8	1.68	0.58
2:AA:1655:A:OP2	2:AA:1655:A:H8	1.85	0.58
2:AA:1666:G:N7	2:AA:1667:G:C2	2.71	0.58
2:AA:1670:C:H3'	2:AA:1671:U:H6	1.68	0.58
2:AA:1695:G:N2	2:AA:1696:G:N7	2.49	0.58
2:AA:1703:G:C2	2:AA:1704:G:H1'	2.37	0.58
2:AA:1703:G:C2	2:AA:1704:G:C1'	2.87	0.58
2:AA:1793:C:N4	2:AA:1825:A:H62	1.99	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1964:G:C6	2:AA:1967:C:C5	2.91	0.58
2:AA:2019:A:C2	2:AA:2020:A:C4	2.91	0.58
2:AA:2052:G:H21	5:AE:245:ARG:CB	2.16	0.58
2:AA:2083:G:H8	2:AA:2083:G:O5'	1.87	0.58
2:AA:2268:A:H4'	2:AA:2268:A:OP1	2.02	0.58
2:AA:2312:U:H2'	7:AG:72:LYS:NZ	2.18	0.58
2:AA:2379:G:N2	2:AA:2380:C:C2	2.71	0.58
2:AA:2576:G:H3'	2:AA:2576:G:P	2.43	0.58
2:AA:2603:G:C8	2:AA:2603:G:C3'	2.86	0.58
2:AA:2607:G:C6	2:AA:2608:G:C2	2.91	0.58
2:AA:2818:G:O2'	2:AA:2837:G:C5'	2.49	0.58
3:AC:43:VAL:HG21	3:AC:175:VAL:HG11	1.85	0.58
3:AC:96:GLY:C	3:AC:98:GLU:N	2.59	0.58
3:AC:116:THR:O	3:AC:118:ASP:N	2.36	0.58
3:AC:215:THR:OG1	3:AC:220:PRO:O	2.17	0.58
4:AD:84:PRO:C	4:AD:85:ASN:HD22	2.10	0.58
4:AD:164:LEU:O	4:AD:172:ILE:HG21	2.03	0.58
4:AD:194:VAL:CG2	4:AD:195:GLY:N	2.65	0.58
4:AD:208:GLY:HA3	4:AD:210:LYS:HZ1	1.67	0.58
5:AE:44:TYR:CD1	5:AE:309:PRO:HD2	2.38	0.58
5:AE:214:VAL:HG21	5:AE:221:LYS:NZ	2.17	0.58
5:AE:222:ARG:NH1	5:AE:234:ARG:HH21	2.01	0.58
5:AE:226:HIS:CG	5:AE:229:GLN:OE1	2.56	0.58
5:AE:267:ARG:O	5:AE:297:LYS:CG	2.49	0.58
6:AF:37:ALA:CB	6:AF:107:ARG:NH2	2.59	0.58
6:AF:197:SER:O	6:AF:238:SER:HB2	2.03	0.58
6:AF:200:PRO:HD3	6:AF:214:THR:HG21	1.85	0.58
9:AI:78:ARG:HH11	9:AI:85:LEU:HD22	1.68	0.58
9:AJ:15:VAL:HG22	9:AJ:48:ALA:HB3	1.85	0.58
14:AO:94:ARG:CB	14:AO:120:LEU:HD22	2.32	0.58
15:AP:57:ARG:CA	15:AP:61:LEU:HD21	2.33	0.58
16:AQ:19:ASP:O	16:AQ:22:GLN:N	2.36	0.58
18:AS:36:LEU:CD1	18:AS:51:LEU:CD2	2.80	0.58
18:AS:68:ARG:NH2	18:AS:110:LYS:HG2	2.16	0.58
19:AT:54:THR:HG22	19:AT:64:ALA:HB1	1.85	0.58
20:AU:47:THR:OG1	20:AU:61:GLU:HG3	2.03	0.58
21:AV:68:ALA:HB3	21:AV:82:ASP:HB3	1.85	0.58
21:AV:159:THR:C	21:AV:160:LEU:HD12	2.28	0.58
25:A1:44:THR:HG22	25:A1:48:ARG:HE	1.68	0.58
25:A1:99:ALA:CA	25:A1:106:PHE:CG	2.85	0.58
26:A2:42:GLY:O	26:A2:54:TYR:OH	2.19	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:62:GLU:HG3	26:A2:98:ILE:CD1	2.24	0.58
27:A3:45:PHE:CD1	27:A3:45:PHE:N	2.69	0.58
27:A3:76:ALA:O	27:A3:78:PHE:CD1	2.56	0.58
28:A4:35:VAL:HG12	28:A4:36:TRP:H	1.67	0.58
32:A8:58:MET:O	32:A8:59:LYS:C	2.45	0.58
34:BA:16:A:H2'	34:BA:17:U:H5'	1.84	0.58
34:BA:49:U:C5	34:BA:364:A:C6	2.91	0.58
34:BA:127:G:OP1	34:BA:635:G:H1'	2.02	0.58
34:BA:181:G:H4'	34:BA:182:U:H5'	1.85	0.58
34:BA:302:G:H21	34:BA:556:C:C4'	2.16	0.58
34:BA:333:G:C6	34:BA:334:C:N4	2.71	0.58
34:BA:350:G:C2	34:BA:351:G:N1	2.71	0.58
34:BA:370:C:H42	34:BA:391:G:H1	1.49	0.58
34:BA:413:G:N2	34:BA:428:G:H1'	2.18	0.58
34:BA:523:A:N6	47:BO:53:ARG:HH21	1.99	0.58
34:BA:529:G:O6	47:BO:49:ASN:CB	2.51	0.58
34:BA:695:A:OP2	46:BN:52:GLY:HA3	2.03	0.58
34:BA:837:G:H1	34:BA:849:C:H42	1.50	0.58
34:BA:1085:U:O2'	34:BA:1086:U:OP1	2.16	0.58
34:BA:1127:G:N2	34:BA:1146:A:H62	2.00	0.58
34:BA:1243:C:N4	34:BA:1294:G:H1	1.97	0.58
34:BA:1358:U:C5'	49:BQ:34:TYR:HA	2.33	0.58
34:BA:1401:G:C8	34:BA:1402:C:C6	2.91	0.58
34:BA:1422:G:C6	34:BA:1423:G:N7	2.71	0.58
37:BE:28:PHE:CD1	37:BE:31:TYR:C	2.81	0.58
37:BE:239:VAL:O	37:BE:240:GLN:HB2	2.02	0.58
39:BG:30:LYS:O	39:BG:32:ALA:N	2.31	0.58
40:BH:18:ARG:H	40:BH:26:PHE:HB3	1.66	0.58
40:BH:90:VAL:O	40:BH:120:THR:HA	2.03	0.58
41:BI:2:ARG:NH2	50:BR:2:PRO:HD2	2.18	0.58
42:BJ:88:PRO:HD2	42:BJ:152:ALA:HA	1.85	0.58
43:BK:8:ASP:HA	43:BK:11:THR:OG1	2.03	0.58
47:BO:45:PRO:CD	47:BO:51:ALA:H	2.16	0.58
48:BP:16:ASP:OD2	48:BP:17:VAL:HG23	2.02	0.58
50:BR:59:MET:SD	50:BR:60:VAL:N	2.76	0.58
50:BR:62:GLN:CA	50:BR:65:ARG:HH22	2.16	0.58
51:BS:20:VAL:CG2	51:BS:35:LYS:HD2	2.33	0.58
52:BT:9:VAL:HG12	52:BT:54:GLY:O	2.02	0.58
52:BT:11:VAL:CG2	52:BT:20:THR:HB	2.32	0.58
52:BT:33:GLY:O	52:BT:34:LYS:O	2.21	0.58
52:BT:59:ILE:O	52:BT:59:ILE:HG23	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:45:SER:CB	53:BU:51:LEU:HD11	2.29	0.58
53:BU:73:ALA:C	53:BU:79:LEU:HD11	2.28	0.58
54:BV:53:ASN:OD1	54:BV:56:GLN:HB2	2.04	0.58
1:AB:62:C:C2	1:AB:63:G:C8	2.91	0.58
2:AA:81:G:H2'	2:AA:82:G:H5'	1.84	0.58
2:AA:196:A:H3'	2:AA:2068:U:O4	2.03	0.58
2:AA:204:A:O2'	2:AA:205:G:P	2.61	0.58
2:AA:220:G:H1'	2:AA:234:C:H1'	1.85	0.58
2:AA:220:G:N2	2:AA:427:U:H2'	2.18	0.58
2:AA:270(O):U:OP1	2:AA:270(P):C:C4	2.57	0.58
2:AA:278:A:C2	2:AA:362:U:C4	2.90	0.58
2:AA:391:G:O2'	2:AA:392:C:H5'	2.04	0.58
2:AA:550:G:O2'	2:AA:1220:A:C2	2.50	0.58
2:AA:557:U:C5'	12:AM:92:GLN:NE2	2.64	0.58
2:AA:572:A:C5	2:AA:573:G:C2	2.92	0.58
2:AA:588:U:C4	2:AA:589:C:C5	2.90	0.58
2:AA:698:C:H5'	2:AA:698:C:C6	2.36	0.58
2:AA:753:C:H2'	2:AA:754:C:O5'	2.04	0.58
2:AA:760:G:C2'	2:AA:761:A:H5'	2.33	0.58
2:AA:788:A:O2'	2:AA:789:A:OP2	2.18	0.58
2:AA:827:U:C6	2:AA:2430:A:C2	2.92	0.58
2:AA:953:A:H2'	2:AA:954:G:C5'	2.33	0.58
2:AA:972:G:H3'	2:AA:973:A:O3'	2.02	0.58
2:AA:991:C:OP2	2:AA:1186:G:OP2	2.21	0.58
2:AA:1027:A:C8	2:AA:1027:A:OP2	2.57	0.58
2:AA:1137:G:H21	12:AM:86:MET:CE	2.17	0.58
2:AA:1271:G:H3'	2:AA:1271:G:H8	1.68	0.58
2:AA:1433:U:O5'	2:AA:1433:U:H6	1.85	0.58
2:AA:1465:G:N3	2:AA:1466:G:C8	2.71	0.58
2:AA:1528:A:H2'	2:AA:1529:A:C4'	2.33	0.58
2:AA:1690:A:N3	2:AA:1690:A:C2'	2.63	0.58
2:AA:1711:C:H2'	2:AA:1712:C:C6	2.37	0.58
2:AA:2011:U:C2'	2:AA:2012:G:H5'	2.34	0.58
2:AA:2018:G:OP1	2:AA:2019:A:OP2	2.21	0.58
2:AA:2045:C:C2'	2:AA:2046:G:O5'	2.50	0.58
2:AA:2286:A:N6	30:A6:31:THR:O	2.35	0.58
2:AA:2305:A:N6	2:AA:2311:A:C2	2.69	0.58
2:AA:2311:A:HO2'	7:AG:54:ALA:H	1.50	0.58
2:AA:2331:G:H4'	27:A3:70:ILE:CG1	2.34	0.58
2:AA:2544:G:O2'	2:AA:2545:G:H5'	2.03	0.58
2:AA:2617:C:C2	2:AA:2618:G:C8	2.91	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2657:A:N7	2:AA:2658:C:C5	2.70	0.58
2:AA:2730:C:C4'	5:AE:265:ASN:ND2	2.61	0.58
2:AA:2792:G:C2	2:AA:2793:G:N1	2.72	0.58
4:AD:156:ALA:C	4:AD:196:ASN:ND2	2.60	0.58
4:AD:168:GLY:CA	4:AD:170:TYR:CE2	2.85	0.58
5:AE:180:ILE:HA	5:AE:183:ASP:OD1	2.03	0.58
6:AF:84:VAL:HB	6:AF:85:LYS:CD	2.32	0.58
6:AF:153:VAL:HG12	6:AF:157:LEU:HD11	1.83	0.58
8:AH:8:ILE:CG2	8:AH:9:GLU:N	2.67	0.58
8:AH:37:HIS:CD2	8:AH:40:MET:HG2	2.37	0.58
8:AH:106:VAL:HG12	8:AH:108:TYR:CZ	2.38	0.58
9:AJ:71:ILE:HD11	11:AL:62:GLU:H	1.68	0.58
10:AK:56:ARG:O	10:AK:60:GLU:HB3	2.03	0.58
10:AK:77:VAL:HG21	10:AK:143:VAL:HG22	1.85	0.58
11:AL:100:VAL:CG1	11:AL:101:THR:H	2.12	0.58
12:AM:52:GLN:HG2	12:AM:55:GLU:OE2	2.04	0.58
12:AM:96:GLU:O	12:AM:97:ALA:C	2.45	0.58
13:AN:49:GLY:HA2	13:AN:53:LYS:HG2	1.85	0.58
13:AN:73:ASP:C	13:AN:75:SER:N	2.59	0.58
14:AO:56:LYS:O	14:AO:57:VAL:HB	2.03	0.58
15:AP:35:ASN:ND2	21:AV:114:ASP:N	2.47	0.58
15:AP:66:ASN:CB	15:AP:70:ARG:NH2	2.53	0.58
16:AQ:31:LYS:O	16:AQ:52:PRO:HD2	2.02	0.58
16:AQ:116:PHE:HA	16:AQ:119:GLN:OE1	2.03	0.58
18:AS:95:ILE:HG22	18:AS:96:ILE:N	2.18	0.58
19:AT:17:ASP:HA	19:AT:20:PHE:CE1	2.39	0.58
19:AT:56:ASN:ND2	19:AT:62:LYS:CE	2.66	0.58
20:AU:25:ALA:O	20:AU:26:THR:HG23	2.03	0.58
21:AV:68:ALA:HB3	21:AV:82:ASP:CB	2.33	0.58
22:AW:7:GLU:OE1	22:AW:8:ILE:CG1	2.51	0.58
22:AW:51:LYS:O	22:AW:55:ARG:HD2	2.02	0.58
25:A1:43:ALA:CB	26:A2:75:LYS:CB	2.81	0.58
26:A2:71:ILE:O	26:A2:72:ARG:CG	2.51	0.58
27:A3:26:PHE:CD1	27:A3:26:PHE:N	2.69	0.58
30:A6:11:LYS:NZ	32:A8:35:GLY:HA3	2.18	0.58
31:A7:28:ARG:O	31:A7:31:LEU:CB	2.50	0.58
33:A9:23:VAL:O	33:A9:24:LEU:HD23	2.04	0.58
34:BA:35:G:N3	47:BO:118:SER:OG	2.36	0.58
34:BA:132:C:H42	34:BA:230:G:H1	1.46	0.58
34:BA:195:A:C4'	55:BW:68:LYS:HZ1	2.14	0.58
34:BA:248:C:O2'	34:BA:283:C:H4'	2.04	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:259:G:H21	34:BA:260:G:H1'	1.69	0.58
34:BA:591:U:OP1	43:BK:30:ARG:CZ	2.51	0.58
34:BA:690:G:H2'	34:BA:691:G:C5'	2.33	0.58
34:BA:839:U:O2	34:BA:839:U:H2'	2.04	0.58
34:BA:853:G:O2'	34:BA:854:G:H5'	2.04	0.58
34:BA:866:C:C5	34:BA:867:G:N9	2.71	0.58
34:BA:943:U:H2'	34:BA:944:G:H5'	1.85	0.58
34:BA:1008:C:N4	34:BA:1021:G:H1	2.01	0.58
34:BA:1144:G:H2'	34:BA:1144:G:N3	2.18	0.58
34:BA:1227:A:O2'	48:BP:115:LYS:NZ	2.23	0.58
34:BA:1326:C:OP1	56:BX:12:LYS:NZ	2.36	0.58
34:BA:1355:G:N3	34:BA:1356:G:C8	2.72	0.58
34:BA:1511:G:C2'	34:BA:1512:U:H5'	2.33	0.58
35:BB:29:A:C6	35:BB:30:G:C5	2.92	0.58
35:BB:43:G:H5''	35:BB:43:G:C8	2.38	0.58
35:BC:9:A:C2	35:BC:46:G:N7	2.71	0.58
36:B1:30:U:H2'	36:B1:31:G:C5'	2.31	0.58
36:B1:67:U:C2'	36:B1:68:U:H5'	2.32	0.58
37:BE:75:LYS:HA	37:BE:78:GLN:HE21	1.66	0.58
37:BE:77:ALA:HB1	37:BE:80:ILE:HD12	1.85	0.58
37:BE:128:GLU:O	37:BE:128:GLU:HG3	2.02	0.58
39:BG:151:LYS:H	39:BG:151:LYS:CD	2.14	0.58
41:BI:26:ILE:CG2	41:BI:30:LEU:HD11	2.32	0.58
42:BJ:140:ASP:HA	42:BJ:143:ARG:NH1	2.18	0.58
45:BM:72:VAL:O	45:BM:73:ASP:HB2	2.01	0.58
47:BO:69:TYR:O	47:BO:100:ILE:HG12	2.03	0.58
51:BS:20:VAL:HG12	51:BS:21:VAL:N	2.17	0.58
55:BW:17:ARG:O	55:BW:20:LEU:HB2	2.02	0.58
55:BW:26:ASN:HD22	55:BW:26:ASN:N	2.01	0.58
55:BW:64:ASP:O	55:BW:67:ALA:CB	2.46	0.58
2:AA:25:U:H4'	18:AS:79:GLY:HA2	1.85	0.58
2:AA:38:A:H2'	2:AA:39:C:H6	1.68	0.58
2:AA:278:A:H2'	2:AA:279:C:OP2	2.03	0.58
2:AA:294:A:O2'	20:AU:15:PRO:HG2	2.04	0.58
2:AA:319:C:H2'	2:AA:320:A:C8	2.38	0.58
2:AA:459:U:H5	2:AA:469:G:N2	2.02	0.58
2:AA:530:G:N1	2:AA:2021:C:C4'	2.65	0.58
2:AA:546:C:H41	2:AA:1221:C:P	2.24	0.58
2:AA:550:G:H2'	2:AA:1220:A:H2	1.68	0.58
2:AA:637:A:C2	2:AA:651:G:H4'	2.39	0.58
2:AA:685:A:C5	2:AA:774:A:C6	2.92	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:697:C:H2'	2:AA:698:C:C5	2.37	0.58
2:AA:838:C:O2'	2:AA:839:U:H5'	2.03	0.58
2:AA:961:C:N4	2:AA:2031:A:C4	2.71	0.58
2:AA:977:G:N7	2:AA:987:G:C2	2.72	0.58
2:AA:994:C:OP2	25:A1:54:LYS:HE3	2.03	0.58
2:AA:1059:G:OP1	9:AI:2:THR:CG2	2.50	0.58
2:AA:1210:A:H1'	2:AA:1212:G:H21	1.67	0.58
2:AA:1227:A:C2'	2:AA:1228:G:H5''	2.34	0.58
2:AA:1238:G:H2'	2:AA:1239:G:C5'	2.34	0.58
2:AA:1344:G:N2	2:AA:1404:C:H1'	2.17	0.58
2:AA:1544:C:OP2	2:AA:1544:C:C3'	2.38	0.58
2:AA:1576:U:C5	2:AA:1577:C:C2	2.91	0.58
2:AA:1675:C:O2	2:AA:1675:C:C2'	2.42	0.58
2:AA:1680:U:O2	2:AA:1764:G:O5'	2.21	0.58
2:AA:1703:G:C2	2:AA:1704:G:N9	2.72	0.58
2:AA:1780:A:C3'	2:AA:1781:C:H5''	2.32	0.58
2:AA:1842:G:O2'	2:AA:1843:C:H5'	2.04	0.58
2:AA:2043:C:O2	2:AA:2043:C:C2'	2.50	0.58
2:AA:2056:G:O5'	2:AA:2057:A:OP2	2.21	0.58
2:AA:2213:U:H5'	2:AA:2215:G:C5	2.37	0.58
2:AA:2269:A:H2'	2:AA:2270:G:H8	1.66	0.58
2:AA:2312:U:C2'	7:AG:72:LYS:NZ	2.65	0.58
2:AA:2331:G:C5	2:AA:2332:U:N3	2.71	0.58
2:AA:2386:C:H2'	2:AA:2387:U:C5	2.38	0.58
2:AA:2397:G:C2	2:AA:2420:C:H1'	2.38	0.58
2:AA:2397:G:H22	2:AA:2420:C:H1'	1.63	0.58
2:AA:2414:G:H2'	2:AA:2415:G:C8	2.38	0.58
2:AA:2510:C:N3	2:AA:2578:G:C6	2.71	0.58
2:AA:2542:A:C4'	2:AA:2543:G:OP1	2.51	0.58
2:AA:2639:A:N3	2:AA:2778:A:C2	2.72	0.58
2:AA:2687:U:N3	2:AA:2688:U:H6	2.00	0.58
2:AA:2791:C:C2	2:AA:2805:G:C6	2.91	0.58
3:AC:30:LYS:HE3	3:AC:178:ALA:O	2.02	0.58
3:AC:103:ILE:HB	3:AC:127:LEU:CD1	2.33	0.58
4:AD:66:PHE:HD2	4:AD:67:LYS:CE	2.09	0.58
4:AD:104:ILE:O	4:AD:106:PRO:CD	2.50	0.58
4:AD:148:GLY:C	4:AD:149:ARG:NH1	2.61	0.58
6:AF:195:VAL:HG21	6:AF:235:PHE:CE2	2.38	0.58
8:AH:75:VAL:O	8:AH:77:GLY:N	2.36	0.58
9:AI:78:ARG:NH1	9:AI:85:LEU:HD22	2.18	0.58
10:AK:94:THR:O	10:AK:96:LYS:N	2.36	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:125:GLY:O	10:AK:143:VAL:O	2.21	0.58
11:AL:107:GLU:OE2	11:AL:108:ILE:HG13	2.03	0.58
11:AL:116:LEU:HD22	11:AL:117:ASN:OD1	2.03	0.58
12:AM:27:ALA:O	12:AM:29:GLN:N	2.36	0.58
14:AO:110:GLY:O	14:AO:111:ALA:O	2.21	0.58
15:AP:26:LYS:HD2	15:AP:89:PRO:CG	2.33	0.58
15:AP:45:GLN:CB	15:AP:152:SER:HB3	2.33	0.58
15:AP:87:LYS:HB2	15:AP:122:PHE:HE2	1.67	0.58
16:AQ:83:LEU:C	16:AQ:87:LEU:HD23	2.29	0.58
16:AQ:123:ILE:HG22	16:AQ:124:ASP:N	2.17	0.58
19:AT:5:ILE:CG2	19:AT:6:LYS:H	2.16	0.58
20:AU:29:ALA:C	20:AU:33:GLU:OE2	2.47	0.58
21:AV:1:MET:H2	21:AV:54:ILE:CD1	2.16	0.58
21:AV:14:LEU:HD11	21:AV:80:HIS:NE2	2.18	0.58
25:A1:97:ASP:O	25:A1:101:ARG:CG	2.39	0.58
25:A1:104:GLU:O	25:A1:107:LYS:HB2	2.04	0.58
27:A3:26:PHE:O	27:A3:60:PHE:CG	2.56	0.58
27:A3:37:LEU:HB2	27:A3:68:VAL:CA	2.33	0.58
31:A7:5:TYR:O	31:A7:6:GLN:C	2.47	0.58
31:A7:8:ASN:O	31:A7:9:ASN:C	2.46	0.58
32:A8:6:THR:O	32:A8:7:HIS:C	2.47	0.58
34:BA:115:G:C6	34:BA:289:G:N7	2.72	0.58
34:BA:127:G:O3'	52:BT:2:PRO:HD2	2.04	0.58
34:BA:188:C:N3	34:BA:189:G:C8	2.72	0.58
34:BA:231:G:O2'	34:BA:232:G:H5'	2.03	0.58
34:BA:340:U:O2'	34:BA:341:C:H5'	2.03	0.58
34:BA:518:C:H42	35:BB:34:G:N2	2.01	0.58
34:BA:706:A:C4'	46:BN:29:ILE:HD11	2.32	0.58
34:BA:805:C:N3	34:BA:806:C:C5	2.71	0.58
34:BA:859:A:H2'	34:BA:860:A:O5'	2.02	0.58
34:BA:953:G:H1	34:BA:1228:C:N4	2.00	0.58
34:BA:1254:C:OP1	45:BM:45:ARG:CD	2.51	0.58
34:BA:1348:U:H2'	34:BA:1348:U:O2	2.02	0.58
34:BA:1382:C:H2'	34:BA:1383:C:H6	1.69	0.58
34:BA:1398:A:N6	40:BH:21:ALA:HA	2.17	0.58
34:BA:1476:G:H8	34:BA:1476:G:O5'	1.85	0.58
34:BA:1484:C:H2'	34:BA:1485:U:O4'	2.03	0.58
34:BA:1486:G:C6	34:BA:1487:G:C6	2.91	0.58
34:BA:1537:U:H2'	34:BA:1538:C:O4'	2.02	0.58
35:BB:37:G:H2'	35:BB:38:A:C5'	2.33	0.58
35:BB:50:U:C2	35:BB:65:G:C2	2.91	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:19:G:H3'	35:BC:20:G:C8	2.39	0.58
36:B1:14:U:H5''	36:B1:38:C:N4	2.19	0.58
37:BE:23:ARG:NH1	37:BE:24:TRP:O	2.32	0.58
37:BE:169:LYS:CE	37:BE:169:LYS:C	2.76	0.58
38:BF:28:GLN:N	38:BF:30:ARG:NH1	2.50	0.58
40:BH:107:ARG:HG2	40:BH:111:GLU:HG3	1.86	0.58
41:BI:46:ARG:NH1	53:BU:37:VAL:HG21	2.18	0.58
41:BI:50:TYR:HD1	53:BU:80:PRO:HA	1.68	0.58
42:BJ:14:PRO:HD3	42:BJ:21:VAL:HG12	1.84	0.58
42:BJ:104:LEU:HA	42:BJ:134:ALA:CB	2.29	0.58
42:BJ:140:ASP:HA	42:BJ:143:ARG:HH11	1.69	0.58
45:BM:25:GLU:C	45:BM:28:ARG:HB2	2.28	0.58
45:BM:51:ARG:HH11	49:BQ:45:ARG:HH12	1.51	0.58
46:BN:42:TRP:HZ3	46:BN:47:VAL:HG22	1.68	0.58
49:BQ:9:LYS:CE	49:BQ:10:ALA:HB2	2.33	0.58
50:BR:29:VAL:O	50:BR:30:ALA:C	2.44	0.58
50:BR:34:LEU:HG	50:BR:38:ARG:CD	2.26	0.58
51:BS:7:ALA:CB	51:BS:9:PHE:HE2	2.17	0.58
51:BS:58:TYR:O	51:BS:61:SER:OG	2.19	0.58
54:BV:25:LYS:HD2	54:BV:25:LYS:H	1.69	0.58
54:BV:67:VAL:C	54:BV:69:HIS:H	2.11	0.58
1:AB:12:C:C6	27:A3:53:MET:SD	2.96	0.58
1:AB:33:G:H1	1:AB:49:C:H42	1.51	0.58
2:AA:65:C:N3	2:AA:66:C:C5	2.71	0.58
2:AA:196:A:C2	2:AA:805:G:N1	2.71	0.58
2:AA:239:U:C1'	2:AA:259:G:N2	2.66	0.58
2:AA:511:U:C4	2:AA:512:G:N3	2.72	0.58
2:AA:530:G:C1'	2:AA:532:A:OP2	2.51	0.58
2:AA:567:A:C2	2:AA:568:U:C1'	2.86	0.58
2:AA:791:C:C2'	2:AA:792:G:H5'	2.33	0.58
2:AA:819:A:C4	2:AA:820:A:C8	2.91	0.58
2:AA:932:G:H2'	2:AA:933:A:C8	2.37	0.58
2:AA:994:C:O2	25:A1:53:LYS:CB	2.49	0.58
2:AA:1170:G:H1	2:AA:1180:C:N4	2.01	0.58
2:AA:1238:G:C5	2:AA:1239:G:C8	2.91	0.58
2:AA:1379:A:C2	2:AA:1380:G:OP1	2.57	0.58
2:AA:1563:G:C4	2:AA:1564:C:C6	2.92	0.58
2:AA:1913:A:H2'	2:AA:1913:A:N3	2.16	0.58
2:AA:2058:A:C4	2:AA:2059:A:N7	2.72	0.58
2:AA:2278:A:N1	2:AA:2279:G:C5	2.72	0.58
2:AA:2282:G:H4'	2:AA:2283:C:O5'	2.04	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2358:G:OP1	2:AA:2358:G:H8	1.86	0.58
2:AA:2361:A:C2'	2:AA:2362:G:H5'	2.33	0.58
2:AA:2497:A:O2'	2:AA:2498:C:P	2.61	0.58
2:AA:2498:C:C3'	2:AA:2499:C:H5''	2.34	0.58
2:AA:2543:G:N7	2:AA:2544:G:C6	2.72	0.58
2:AA:2564:A:C6	2:AA:2565:A:N6	2.71	0.58
2:AA:2568:C:O2	2:AA:2569:G:C8	2.57	0.58
2:AA:2605:U:O2'	2:AA:2606:C:H5'	2.04	0.58
2:AA:2660:A:H8	2:AA:2660:A:O5'	1.87	0.58
2:AA:2667:C:O2	8:AH:108:TYR:CA	2.52	0.58
2:AA:2678:C:N3	2:AA:2679:A:C8	2.72	0.58
2:AA:2870:C:O2	2:AA:2871:C:H1'	2.04	0.58
3:AC:54:SER:HA	3:AC:57:ASN:ND2	2.19	0.58
3:AC:115:ALA:HB2	3:AC:138:PRO:CG	2.33	0.58
3:AC:129:ARG:C	3:AC:130:ILE:HD12	2.29	0.58
4:AD:143:ILE:HD13	4:AD:153:LEU:O	2.03	0.58
4:AD:208:GLY:O	4:AD:211:HIS:ND1	2.36	0.58
6:AF:1:MET:H3	6:AF:18:LEU:CD1	2.14	0.58
6:AF:157:LEU:O	6:AF:158:GLU:C	2.45	0.58
7:AG:78:GLU:O	7:AG:81:GLU:HB2	2.04	0.58
7:AG:103:ASN:OD1	7:AG:134:LEU:N	2.37	0.58
8:AH:166:GLU:OE2	8:AH:166:GLU:HA	2.02	0.58
9:AI:70:LYS:O	9:AI:74:ILE:HG13	2.03	0.58
9:AJ:62:VAL:HG22	9:AJ:101:VAL:CA	2.33	0.58
9:AJ:66:PHE:CZ	9:AJ:92:VAL:HG22	2.38	0.58
9:AJ:110:GLU:HA	9:AJ:113:GLU:OE1	2.02	0.58
10:AK:29:PHE:HD2	10:AK:30:LEU:HD21	1.68	0.58
12:AM:38:VAL:C	12:AM:103:VAL:HG13	2.29	0.58
12:AM:57:TYR:O	12:AM:60:ARG:HB2	2.04	0.58
13:AN:79:PHE:CD2	17:AR:22:VAL:HG23	2.39	0.58
15:AP:132:VAL:O	15:AP:135:ALA:HB3	2.04	0.58
18:AS:21:VAL:HG23	18:AS:22:ASP:N	2.18	0.58
21:AV:13:LYS:C	21:AV:15:ASP:N	2.51	0.58
21:AV:18:MET:CA	21:AV:35:ASP:HA	2.27	0.58
21:AV:79:ILE:HG22	21:AV:80:HIS:CD2	2.38	0.58
21:AV:96:VAL:HG12	21:AV:97:PRO:N	2.19	0.58
22:AW:5:VAL:HG12	22:AW:6:GLN:N	2.17	0.58
22:AW:60:GLN:O	22:AW:61:GLY:C	2.46	0.58
23:AX:49:LYS:O	23:AX:51:ALA:N	2.37	0.58
24:A0:28:LEU:O	24:A0:29:LEU:C	2.44	0.58
24:A0:34:ILE:C	24:A0:113:LEU:HD22	2.28	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:65:ILE:HG22	25:A1:66:ASN:N	2.18	0.58
25:A1:79:PHE:HB3	25:A1:83:LEU:HD12	1.84	0.58
26:A2:18:ASP:OD2	26:A2:94:LYS:HE2	2.03	0.58
30:A6:18:THR:O	30:A6:19:GLY:C	2.45	0.58
30:A6:42:PRO:HG2	30:A6:44:ALA:HB3	1.84	0.58
31:A7:1:MET:O	31:A7:2:LYS:C	2.46	0.58
31:A7:4:THR:N	31:A7:6:GLN:NE2	2.52	0.58
32:A8:4:MET:HA	32:A8:5:LYS:NZ	2.19	0.58
34:BA:118:U:O4	34:BA:289:G:P	2.61	0.58
34:BA:132:C:N4	34:BA:230:G:N1	2.46	0.58
34:BA:592:G:C2	34:BA:593:G:C8	2.92	0.58
34:BA:657:G:N2	34:BA:750:G:N9	2.52	0.58
34:BA:668:G:O2'	50:BR:46:HIS:CE1	2.56	0.58
34:BA:802:A:N6	34:BA:803:G:C2	2.71	0.58
34:BA:833:U:H3	34:BA:853:G:H1	1.50	0.58
34:BA:891:U:H5	34:BA:906:G:C2	2.22	0.58
34:BA:983:A:H5'	34:BA:984:C:OP2	2.03	0.58
34:BA:1007:C:N4	34:BA:1022:G:C6	2.71	0.58
34:BA:1065:U:O2'	34:BA:1066:C:P	2.61	0.58
34:BA:1147:C:O2	44:BL:16:ARG:NH2	2.37	0.58
34:BA:1320:C:H42	54:BV:36:ARG:HH11	1.47	0.58
34:BA:1538:C:O2'	34:BA:1539:C:H5'	2.03	0.58
35:BB:56:C:O5'	35:BB:56:C:H6	1.86	0.58
35:BC:33:U:C6	35:BC:33:U:C3'	2.86	0.58
36:B1:23:U:H3'	36:B1:24:A:C8	2.39	0.58
37:BE:85:ALA:O	37:BE:86:GLU:C	2.44	0.58
39:BG:119:GLN:O	39:BG:122:ARG:HB2	2.04	0.58
39:BG:178:VAL:O	39:BG:178:VAL:HG12	2.02	0.58
42:BJ:31:MET:SD	42:BJ:36:LYS:NZ	2.76	0.58
43:BK:26:VAL:N	43:BK:58:TYR:HE2	2.01	0.58
44:BL:70:LYS:O	44:BL:71:SER:C	2.46	0.58
45:BM:20:ALA:O	45:BM:24:VAL:HG23	2.02	0.58
46:BN:16:SER:N	46:BN:77:MET:SD	2.76	0.58
47:BO:25:PRO:C	47:BO:27:LEU:N	2.46	0.58
47:BO:35:GLY:C	47:BO:82:VAL:HG13	2.28	0.58
47:BO:92:ASP:C	47:BO:93:LEU:CD2	2.75	0.58
47:BO:97:ARG:C	47:BO:98:TYR:CD1	2.82	0.58
48:BP:2:ALA:C	48:BP:4:ILE:HG13	2.29	0.58
48:BP:34:LEU:HD23	48:BP:39:ILE:CD1	2.33	0.58
48:BP:91:ARG:NH1	48:BP:97:PRO:O	2.36	0.58
48:BP:92:HIS:ND1	48:BP:98:VAL:HG21	2.17	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:18:ARG:HD3	51:BS:35:LYS:HZ2	1.67	0.58
55:BW:42:GLN:C	55:BW:42:GLN:HE21	2.12	0.58
2:AA:37:C:C4'	2:AA:451:C:H5''	2.33	0.58
2:AA:146:G:C6	2:AA:147:U:C2	2.92	0.58
2:AA:245:G:C5	2:AA:246:C:H5	2.22	0.58
2:AA:360:G:O2'	2:AA:361:G:C5'	2.52	0.58
2:AA:386:G:HO2'	2:AA:387:U:P	2.26	0.58
2:AA:443:A:C1'	2:AA:1201:C:H5'	2.34	0.58
2:AA:484:C:H2'	2:AA:485:C:C5	2.34	0.58
2:AA:572:A:N6	2:AA:573:G:H1	2.00	0.58
2:AA:746:A:OP1	2:AA:2612:C:C2	2.56	0.58
2:AA:778:G:C6	2:AA:779:U:O2	2.57	0.58
2:AA:811:U:O2'	2:AA:1251:C:H1'	2.03	0.58
2:AA:871:U:O4'	15:AP:90:PHE:HE2	1.86	0.58
2:AA:1076:C:H4'	11:AL:94:ARG:NH1	2.17	0.58
2:AA:1129:A:H4'	2:AA:2516:G:H5'	1.85	0.58
2:AA:1270:C:O2	2:AA:1325:G:C8	2.57	0.58
2:AA:1303:G:H22	2:AA:1626:G:H1'	1.66	0.58
2:AA:1364:G:P	28:A4:3:LYS:CG	2.92	0.58
2:AA:1418:G:C2'	2:AA:1419:A:OP1	2.50	0.58
2:AA:1428:C:HO2'	2:AA:1429:G:P	2.26	0.58
2:AA:1505:C:O2	2:AA:1505:C:H2'	2.03	0.58
2:AA:1538:G:H2'	2:AA:1539:G:C1'	2.33	0.58
2:AA:1556:C:H2'	2:AA:1557:C:H6	1.63	0.58
2:AA:1613:G:H2'	2:AA:1614:A:OP1	2.04	0.58
2:AA:1676:A:C4	2:AA:1677:A:C8	2.92	0.58
2:AA:1698:A:OP2	2:AA:1698:A:H4'	2.03	0.58
2:AA:1699:G:O6	2:AA:1763:G:N9	2.36	0.58
2:AA:1853:A:H1'	2:AA:2233:U:O2'	2.03	0.58
2:AA:1900:A:H2	2:AA:1970:A:N1	2.01	0.58
2:AA:1906:G:C8	2:AA:1929:G:H2'	2.38	0.58
2:AA:2063:C:H2'	2:AA:2064:C:O5'	2.03	0.58
2:AA:2207:C:C3'	2:AA:2208:U:H5'	2.32	0.58
2:AA:2227:A:N1	2:AA:2228:G:C5	2.71	0.58
2:AA:2252:G:O5'	2:AA:2252:G:C8	2.54	0.58
2:AA:2253:G:C4	2:AA:2254:C:C5	2.91	0.58
2:AA:2291:U:H2'	2:AA:2292:C:H6	1.64	0.58
2:AA:2334:G:OP2	16:AQ:13:ARG:CG	2.50	0.58
2:AA:2434:A:O2'	2:AA:2435:A:H5''	2.03	0.58
2:AA:2648:C:H2'	2:AA:2649:U:C6	2.39	0.58
2:AA:2810:A:N6	2:AA:2891:G:C2	2.72	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:89:ASN:HD21	4:AD:199:ARG:NH2	1.99	0.58
4:AD:107:LYS:HB3	4:AD:193:GLU:CB	2.33	0.58
4:AD:128:ALA:O	4:AD:129:LEU:HD12	2.04	0.58
4:AD:142:ASN:CG	4:AD:190:THR:HG23	2.28	0.58
5:AE:250:VAL:O	5:AE:251:PRO:C	2.38	0.58
7:AG:146:LYS:HD2	16:AQ:15:GLU:OE2	2.03	0.58
9:AI:111:ALA:C	9:AI:115:LYS:HE3	2.28	0.58
9:AJ:30:GLY:C	9:AJ:32:THR:H	2.12	0.58
10:AK:93:ILE:HA	10:AK:97:GLN:OE1	2.03	0.58
10:AK:112:LYS:C	10:AK:114:LYS:H	2.12	0.58
11:AL:21:ALA:HB3	11:AL:22:PRO:CD	2.33	0.58
12:AM:10:VAL:HG12	12:AM:12:VAL:HG23	1.86	0.58
14:AO:62:ALA:CB	14:AO:105:TYR:HB2	2.33	0.58
15:AP:61:LEU:HD23	15:AP:61:LEU:N	2.18	0.58
16:AQ:43:VAL:C	16:AQ:44:ARG:HG3	2.28	0.58
17:AR:46:ALA:O	17:AR:49:LEU:N	2.33	0.58
19:AT:51:GLN:O	19:AT:66:VAL:HA	2.03	0.58
20:AU:72:ILE:HG22	20:AU:73:HIS:N	2.18	0.58
20:AU:105:ASP:OD1	20:AU:108:ARG:HD2	2.03	0.58
21:AV:17:SER:N	21:AV:36:ARG:NH2	2.52	0.58
21:AV:68:ALA:HB3	21:AV:82:ASP:CG	2.29	0.58
22:AW:9:ARG:HB2	22:AW:59:ILE:HD11	1.86	0.58
22:AW:36:ALA:O	22:AW:37:GLY:C	2.46	0.58
24:A0:75:LEU:O	24:A0:78:LYS:HB3	2.03	0.58
27:A3:4:LYS:HZ1	27:A3:11:LYS:NZ	2.00	0.58
27:A3:69:PHE:C	27:A3:70:ILE:CG1	2.76	0.58
28:A4:48:ARG:HG2	28:A4:49:PHE:N	2.11	0.58
33:A9:25:VAL:HB	33:A9:34:GLN:CB	2.31	0.58
34:BA:8:A:C1'	40:BH:102:ALA:O	2.47	0.58
34:BA:116:A:O5'	34:BA:116:A:H8	1.87	0.58
34:BA:509:A:C2'	34:BA:510:A:O5'	2.52	0.58
34:BA:616:G:C2	34:BA:617:G:C8	2.91	0.58
34:BA:690:G:O2'	34:BA:691:G:H5'	2.04	0.58
34:BA:692:U:C5	46:BN:26:ASN:ND2	2.56	0.58
34:BA:770:C:C4'	34:BA:900:A:H2	2.17	0.58
34:BA:956:U:O2'	34:BA:957:U:H5'	2.02	0.58
34:BA:1072:G:H2'	34:BA:1073:U:O4'	2.04	0.58
34:BA:1328:C:H2'	34:BA:1329:A:C8	2.39	0.58
34:BA:1508:G:H1	34:BA:1527:C:H42	1.50	0.58
36:B1:20:A:N1	36:B1:34:U:O2	2.36	0.58
37:BE:15:VAL:HG23	37:BE:16:HIS:ND1	2.19	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:222:ILE:CG1	37:BE:226:ARG:HE	2.17	0.58
38:BF:19:GLU:HG2	38:BF:54:ARG:CG	2.34	0.58
38:BF:95:THR:CB	38:BF:97:LYS:HG2	2.32	0.58
39:BG:10:ARG:HA	39:BG:13:ARG:HG3	1.85	0.58
39:BG:14:ARG:HD3	39:BG:14:ARG:C	2.27	0.58
39:BG:195:ALA:O	39:BG:196:LEU:C	2.43	0.58
40:BH:47:LYS:O	40:BH:57:LYS:NZ	2.35	0.58
41:BI:28:ARG:HH11	41:BI:28:ARG:CG	2.16	0.58
41:BI:57:GLN:NE2	41:BI:57:GLN:O	2.36	0.58
44:BL:5:TYR:HD2	44:BL:6:GLY:N	2.01	0.58
44:BL:97:LYS:O	44:BL:100:GLY:HA2	2.04	0.58
46:BN:108:ILE:HG22	53:BU:87:ARG:O	2.04	0.58
47:BO:6:THR:HG23	47:BO:9:GLN:OE1	2.03	0.58
47:BO:28:LYS:CD	47:BO:33:ARG:NH1	2.60	0.58
48:BP:55:ARG:O	48:BP:56:LEU:C	2.46	0.58
49:BQ:27:CYS:C	49:BQ:29:ARG:H	2.12	0.58
50:BR:9:GLN:C	50:BR:11:VAL:N	2.59	0.58
51:BS:75:ARG:HA	51:BS:80:PHE:CD1	2.39	0.58
52:BT:45:HIS:NE2	52:BT:47:PRO:CG	2.55	0.58
52:BT:81:ARG:HG2	52:BT:84:LEU:HG	1.85	0.58
53:BU:18:ARG:NH2	53:BU:21:LYS:HD3	2.18	0.58
55:BW:23:ARG:O	55:BW:24:LEU:C	2.46	0.58
1:AB:25:A:C2'	1:AB:26:A:H5'	2.32	0.58
1:AB:68:C:H2'	1:AB:69:G:O4'	2.04	0.58
1:AB:89:G:C2	1:AB:89(A):A:C6	2.91	0.58
1:AB:112:G:H2'	1:AB:112:G:N3	2.19	0.58
1:AB:118:G:H2'	1:AB:119:A:O5'	2.04	0.58
2:AA:16:G:H5'	29:A5:18:MET:SD	2.44	0.58
2:AA:29:U:C4'	25:A1:11:ARG:HH12	2.09	0.58
2:AA:80:G:H8	2:AA:80:G:O5'	1.86	0.58
2:AA:138:G:H1'	19:AT:42:GLU:CD	2.29	0.58
2:AA:138:G:H1'	19:AT:42:GLU:HG2	1.85	0.58
2:AA:152:G:O6	2:AA:175:G:C6	2.57	0.58
2:AA:260:G:C6	2:AA:261:G:N7	2.71	0.58
2:AA:270(F):U:H2'	2:AA:270(G):C:O4'	2.04	0.58
2:AA:306:U:C5	2:AA:307:G:C8	2.92	0.58
2:AA:430:G:H8	2:AA:430:G:OP2	1.87	0.58
2:AA:623:G:C8	2:AA:624:C:C5	2.92	0.58
2:AA:641:C:O2'	2:AA:642:G:H5'	2.03	0.58
2:AA:723:G:N2	2:AA:724:U:H1'	2.19	0.58
2:AA:738:G:C5	2:AA:739:G:N3	2.71	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:890:A:H5'	2:AA:892:G:H5''	1.85	0.58
2:AA:917:A:H2'	2:AA:918:A:C5'	2.34	0.58
2:AA:977:G:C5	2:AA:987:G:N2	2.71	0.58
2:AA:1054:A:H2'	2:AA:1055:G:N7	2.18	0.58
2:AA:1058:G:O4'	9:AI:6:ILE:HD11	2.03	0.58
2:AA:1225:C:OP1	26:A2:87:ARG:CB	2.49	0.58
2:AA:1291:C:H2'	2:AA:1292:U:H5'	1.86	0.58
2:AA:1296:G:C6	2:AA:1297:C:C4	2.92	0.58
2:AA:1316:U:H2'	2:AA:1317:A:C8	2.39	0.58
2:AA:1462:C:H4'	2:AA:2703:C:H5'	1.85	0.58
2:AA:1523:U:C4	2:AA:1524:G:C5	2.91	0.58
2:AA:1572:A:OP1	2:AA:1572:A:C8	2.57	0.58
2:AA:1683:C:N4	2:AA:1684:C:N4	2.50	0.58
2:AA:1778:U:C6	2:AA:1784:A:H2	2.21	0.58
2:AA:1798:U:H3	2:AA:1821:A:H61	1.50	0.58
2:AA:1900:A:O2'	2:AA:1901:A:OP2	2.19	0.58
2:AA:1907:G:C4	2:AA:1908:C:C5	2.91	0.58
2:AA:1907:G:H2'	2:AA:1908:C:C6	2.38	0.58
2:AA:1944:U:C2'	2:AA:1945:G:OP1	2.51	0.58
2:AA:1978:A:C5	2:AA:1979:C:C5	2.92	0.58
2:AA:1995:U:C5'	2:AA:1995:U:H6	2.13	0.58
2:AA:2002:G:N1	2:AA:2003:G:C8	2.72	0.58
2:AA:2024:G:C4	2:AA:2025:C:C6	2.92	0.58
2:AA:2040:C:H2'	2:AA:2040:C:O2	2.02	0.58
2:AA:2083:G:C2	2:AA:2084:C:C2	2.91	0.58
2:AA:2105:C:H2'	2:AA:2106:G:C8	2.38	0.58
2:AA:2116:G:H3'	2:AA:2116:G:N3	2.18	0.58
2:AA:2207:C:C4	2:AA:2208:U:C5	2.92	0.58
2:AA:2329:G:N1	2:AA:2386:C:N4	2.52	0.58
2:AA:2333:A:H1'	2:AA:2335:A:C5	2.39	0.58
2:AA:2362:G:H2'	2:AA:2363:C:O4'	2.03	0.58
2:AA:2447:G:O2'	2:AA:2448:A:P	2.62	0.58
2:AA:2524:G:O2'	2:AA:2741:A:C2	2.54	0.58
2:AA:2597:G:H5''	2:AA:2598:A:OP2	2.04	0.58
2:AA:2605:U:O2'	2:AA:2606:C:H5''	2.04	0.58
2:AA:2691:C:O4'	2:AA:2872:G:N7	2.36	0.58
2:AA:2832:U:C6	2:AA:2832:U:C5'	2.83	0.58
2:AA:2838:G:H1	2:AA:2880:C:H42	0.71	0.58
3:AC:59:ARG:HG3	3:AC:164:ARG:HB3	1.85	0.58
3:AC:104:LEU:HD13	3:AC:126:LYS:NZ	2.18	0.58
4:AD:209:ASN:HB3	4:AD:213:LYS:HZ3	1.62	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:84:VAL:H	6:AF:87:ARG:HE	1.49	0.58
7:AG:45:THR:OG1	7:AG:46:GLY:N	2.36	0.58
8:AH:43:THR:CG2	8:AH:50:THR:O	2.51	0.58
9:AI:42:ALA:HB2	9:AJ:42:ALA:CB	2.33	0.58
9:AI:63:LEU:CD1	9:AI:102:ILE:HD12	2.30	0.58
10:AK:79:ILE:O	10:AK:145:VAL:HA	2.03	0.58
11:AL:132:ALA:C	11:AL:137:ILE:O	2.47	0.58
12:AM:95:ARG:O	12:AM:96:GLU:C	2.46	0.58
13:AN:8:LEU:N	13:AN:8:LEU:CD2	2.60	0.58
13:AN:22:ILE:CG2	13:AN:23:LYS:N	2.61	0.58
14:AO:67:ARG:O	14:AO:71:GLU:HG2	2.03	0.58
14:AO:71:GLU:O	14:AO:74:THR:N	2.36	0.58
14:AO:73:VAL:HG13	14:AO:76:LEU:HD23	1.84	0.58
14:AO:92:ASP:OD1	14:AO:93:VAL:N	2.37	0.58
15:AP:26:LYS:NZ	15:AP:90:PHE:CZ	2.69	0.58
15:AP:136:TRP:HA	15:AP:136:TRP:CE3	2.37	0.58
16:AQ:76:GLY:O	16:AQ:82:TYR:HB2	2.04	0.58
16:AQ:81:ALA:CB	16:AQ:117:ALA:CB	2.82	0.58
17:AR:12:ASP:O	17:AR:13:ILE:CG1	2.22	0.58
18:AS:89:ALA:C	18:AS:91:GLY:N	2.48	0.58
20:AU:84:GLY:O	20:AU:85:GLU:O	2.21	0.58
20:AU:101:LEU:HD22	20:AU:103:LEU:HD21	1.85	0.58
21:AV:19:ILE:HD13	21:AV:36:ARG:CG	2.33	0.58
23:AX:14:GLY:O	23:AX:15:TYR:C	2.45	0.58
27:A3:63:SER:O	27:A3:64:ASP:CG	2.47	0.58
29:A5:35:GLN:C	29:A5:37:HIS:H	2.11	0.58
29:A5:40:LYS:HZ1	29:A5:46:CYS:N	2.00	0.58
32:A8:17:THR:OG1	32:A8:19:THR:OG1	2.14	0.58
32:A8:21:LYS:HA	32:A8:57:ARG:NH2	2.17	0.58
34:BA:5:U:O4	39:BG:86:LYS:HE3	2.03	0.58
34:BA:79:G:N1	34:BA:91:C:C2	2.71	0.58
34:BA:141:A:C1'	34:BA:182:U:H1'	2.32	0.58
34:BA:160:A:N7	34:BA:161:A:N7	2.52	0.58
34:BA:187:C:H2'	34:BA:188:C:O4'	2.03	0.58
34:BA:203:U:C5'	34:BA:204:U:OP1	2.52	0.58
34:BA:277:C:P	52:BT:68:ARG:HH12	2.26	0.58
34:BA:280:C:C4'	34:BA:281:G:OP2	2.50	0.58
34:BA:300:A:O5'	34:BA:300:A:H8	1.87	0.58
34:BA:451:A:C2	34:BA:480:U:C5	2.92	0.58
34:BA:529:G:O6	47:BO:49:ASN:CG	2.46	0.58
34:BA:530:G:C8	35:BB:35:A:H1'	2.27	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:538:G:H2'	34:BA:539:A:O5'	2.04	0.58
34:BA:716:A:C2'	34:BA:717:C:H5'	2.33	0.58
34:BA:766:A:C2'	34:BA:767:A:O5'	2.51	0.58
34:BA:781:A:N6	34:BA:802:A:N3	2.52	0.58
34:BA:820:U:O2	34:BA:820:U:H2'	2.02	0.58
34:BA:976:G:N7	34:BA:361(A):C:N4	2.51	0.58
34:BA:1118:C:O4'	34:BA:1179:A:H1'	2.03	0.58
34:BA:1238:A:N6	34:BA:1301:U:H3	2.02	0.58
34:BA:1255:G:H21	34:BA:1276:G:N2	2.02	0.58
34:BA:1305:G:H8	34:BA:1305:G:OP2	1.87	0.58
34:BA:1331:G:H2'	34:BA:1332:A:OP2	2.04	0.58
34:BA:1350:A:OP2	44:BL:118:LYS:HD2	2.04	0.58
34:BA:1515:C:H2'	34:BA:1516:G:C8	2.38	0.58
35:BB:21:A:C6	35:BB:46:G:C2	2.92	0.58
37:BE:71:VAL:O	37:BE:164:VAL:HG23	2.04	0.58
38:BF:8:ILE:HG21	49:BQ:50:LYS:O	2.04	0.58
38:BF:59:ARG:O	38:BF:60:ALA:HB2	2.03	0.58
38:BF:186:PHE:CE1	38:BF:187:ALA:C	2.82	0.58
39:BG:12:CYS:HB2	39:BG:32:ALA:HB3	1.85	0.58
39:BG:89:THR:O	39:BG:90:GLY:C	2.45	0.58
40:BH:75:THR:HA	40:BH:115:VAL:CG1	2.34	0.58
41:BI:3:ARG:HG3	41:BI:65:VAL:O	2.03	0.58
42:BJ:122:HIS:O	42:BJ:123:GLU:C	2.46	0.58
43:BK:31:PHE:CD2	43:BK:31:PHE:C	2.82	0.58
43:BK:33:GLU:CA	43:BK:36:LEU:HD21	2.29	0.58
44:BL:50:LEU:CD2	44:BL:58:ARG:HH11	2.17	0.58
45:BM:28:ARG:C	45:BM:29:ARG:HG3	2.28	0.58
47:BO:84:LEU:HG	47:BO:85:ILE:N	2.18	0.58
48:BP:10:PRO:CB	48:BP:18:ALA:HB1	2.33	0.58
48:BP:14:ARG:HE	48:BP:42:ALA:HA	1.68	0.58
49:BQ:29:ARG:HH11	49:BQ:29:ARG:HG2	1.68	0.58
1:AB:31:C:H2'	1:AB:32:C:H6	1.67	0.58
2:AA:37:C:C5'	2:AA:451:C:O4'	2.51	0.58
2:AA:137(A):G:N1	2:AA:139:G:C2	2.72	0.58
2:AA:292:C:C3'	2:AA:293:U:H3	2.16	0.58
2:AA:311:A:C2	2:AA:331:A:OP2	2.57	0.58
2:AA:541:C:OP2	2:AA:541:C:H6	1.85	0.58
2:AA:600:G:O2'	6:AF:109:LEU:HD11	2.03	0.58
2:AA:643:A:H2'	2:AA:644:A:C8	2.38	0.58
2:AA:820:A:C2	2:AA:944:G:OP1	2.57	0.58
2:AA:953:A:C6	2:AA:965:C:N3	2.71	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1014:U:O2'	2:AA:1015:G:C5'	2.47	0.58
2:AA:1024:G:C2	2:AA:1139:G:N2	2.71	0.58
2:AA:1084:A:N3	9:AI:29:PHE:CE1	2.71	0.58
2:AA:1178:C:H2'	2:AA:1179:C:C6	2.39	0.58
2:AA:1224:G:O2'	26:A2:86:HIS:HA	2.03	0.58
2:AA:1234:U:O4	2:AA:1235:G:N1	2.37	0.58
2:AA:1312:U:H1'	2:AA:1313:U:H5	1.67	0.58
2:AA:1327:C:H2'	2:AA:1328:G:C8	2.38	0.58
2:AA:1508:A:C8	2:AA:1508:A:C3'	2.77	0.58
2:AA:1522:G:N2	2:AA:1523:U:C2	2.71	0.58
2:AA:1591:G:C4	2:AA:1592:C:C5	2.92	0.58
2:AA:1695:G:N2	2:AA:1696:G:N9	2.50	0.58
2:AA:1718:G:C2	2:AA:1741:C:N4	2.68	0.58
2:AA:1755:A:P	17:AR:44:ARG:HH12	2.27	0.58
2:AA:1892:C:N4	2:AA:1893:C:N4	2.51	0.58
2:AA:1913:A:N1	2:AA:1916:A:H2'	2.18	0.58
2:AA:1993:U:C2'	2:AA:1993:U:O2	2.51	0.58
2:AA:2097:C:H2'	2:AA:2098:U:C5'	2.33	0.58
2:AA:2106:G:N2	2:AA:2182:G:N2	2.51	0.58
2:AA:2126:A:C2	2:AA:2127:G:N3	2.72	0.58
2:AA:2145:C:O3'	2:AA:2146:C:O4'	2.22	0.58
2:AA:2208:U:H2'	2:AA:2209:C:H6	1.67	0.58
2:AA:2352:A:C2	2:AA:2353:G:H1'	2.38	0.58
2:AA:2412:A:H2'	2:AA:2413:G:O4'	2.04	0.58
2:AA:2444:G:H2'	2:AA:2445:G:H8	1.63	0.58
2:AA:2460:U:C5	2:AA:2461:C:N4	2.71	0.58
2:AA:2505:G:C5	2:AA:2576:G:N3	2.71	0.58
2:AA:2723:C:C4	2:AA:2724:C:C5	2.92	0.58
2:AA:2783:G:H2'	2:AA:2784:C:C6	2.38	0.58
3:AC:199:HIS:O	3:AC:200:LYS:O	2.22	0.58
4:AD:123:ILE:H	4:AD:123:ILE:HD12	1.67	0.58
5:AE:194:ARG:HG3	5:AE:197:GLU:CD	2.29	0.58
5:AE:198:TYR:CZ	5:AE:267:ARG:HB3	2.39	0.58
5:AE:268:LEU:HA	5:AE:296:VAL:HG13	1.86	0.58
8:AH:30:GLY:O	8:AH:78:VAL:CG1	2.43	0.58
8:AH:43:THR:OG1	8:AH:50:THR:C	2.46	0.58
8:AH:43:THR:HG1	8:AH:50:THR:H	1.51	0.58
8:AH:58:LYS:N	8:AH:61:ARG:CZ	2.67	0.58
8:AH:140:VAL:O	8:AH:143:LEU:HD23	2.03	0.58
8:AH:143:LEU:O	8:AH:146:ASN:HB3	2.02	0.58
9:AI:106:VAL:HG11	9:AI:114:ILE:CD1	2.32	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:118:LEU:HB2	9:AI:125:VAL:HG21	1.85	0.58
9:AJ:66:PHE:CZ	9:AJ:92:VAL:HG13	2.39	0.58
9:AJ:106:VAL:HG12	9:AJ:110:GLU:HB2	1.86	0.58
9:AJ:106:VAL:HG21	9:AJ:114:ILE:CD1	2.34	0.58
9:AJ:115:LYS:HZ1	9:AJ:127:LEU:HD13	1.67	0.58
13:AN:43:VAL:CG2	13:AN:56:GLN:H	2.15	0.58
13:AN:86:ILE:HG22	13:AN:94:ARG:CG	2.22	0.58
13:AN:120:GLU:CG	13:AN:121:VAL:N	2.65	0.58
15:AP:49:VAL:CG2	15:AP:119:ASN:O	2.47	0.58
15:AP:72:VAL:HG21	15:AP:83:PHE:HZ	1.67	0.58
16:AQ:46:GLN:O	16:AQ:47:LEU:HD23	2.03	0.58
18:AS:27:LYS:O	18:AS:70:TYR:HB2	2.04	0.58
20:AU:89:ARG:HB2	20:AU:91:LEU:HD21	1.84	0.58
20:AU:103:LEU:HD13	20:AU:113:GLU:O	2.02	0.58
21:AV:5:ALA:O	21:AV:6:LYS:HB3	2.03	0.58
21:AV:114:ASP:N	21:AV:114:ASP:OD1	2.37	0.58
21:AV:118:HIS:ND1	21:AV:167:THR:C	2.62	0.58
24:A0:26:LYS:CE	24:A0:70:LEU:O	2.51	0.58
24:A0:67:LEU:C	24:A0:67:LEU:CD1	2.73	0.58
24:A0:80:PHE:O	24:A0:84:ALA:HB3	2.04	0.58
24:A0:87:TYR:HE2	24:A0:118:GLU:OE1	1.87	0.58
24:A0:93:GLY:C	24:A0:95:THR:H	2.10	0.58
25:A1:8:ILE:HD13	25:A1:9:VAL:HG23	1.84	0.58
26:A2:66:GLY:HA2	26:A2:93:ILE:HD12	1.83	0.58
27:A3:25:LYS:HE2	27:A3:57:HIS:O	2.04	0.58
27:A3:39:ARG:O	27:A3:39:ARG:HG3	2.04	0.58
29:A5:6:VAL:O	29:A5:7:PRO:O	2.22	0.58
29:A5:50:GLY:HA2	29:A5:57:VAL:CG2	2.33	0.58
31:A7:33:ARG:C	31:A7:37:LYS:HD2	2.29	0.58
34:BA:103:C:H1'	34:BA:151:A:H2	1.69	0.58
34:BA:130:A:C4	34:BA:264:U:O4'	2.57	0.58
34:BA:193:C:O4'	55:BW:60:GLU:CG	2.49	0.58
34:BA:240:C:N3	34:BA:241:C:C5	2.71	0.58
34:BA:259:G:C2	34:BA:260:G:C4	2.92	0.58
34:BA:374:A:O4'	34:BA:481:G:N2	2.37	0.58
34:BA:514:C:O2'	34:BA:515:G:H5'	2.04	0.58
34:BA:616:G:H1	34:BA:624:C:H42	1.50	0.58
34:BA:698:G:OP2	34:BA:698:G:H3'	2.03	0.58
34:BA:718:G:C6	46:BN:116:HIS:NE2	2.72	0.58
34:BA:1132:C:N4	34:BA:1142:G:H1	1.98	0.58
34:BA:1163:C:H2'	34:BA:1164:G:H5'	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1186:G:N2	49:BQ:61:TRP:O	2.37	0.58
34:BA:1192:C:C4	34:BA:1193:G:C5	2.91	0.58
34:BA:1224:G:H2'	34:BA:1225:A:OP1	2.03	0.58
34:BA:1292:U:N3	34:BA:1293:G:C5	2.72	0.58
34:BA:1326:C:O2'	34:BA:1327:C:O4'	2.19	0.58
34:BA:1360:A:N7	49:BQ:18:VAL:CG1	2.67	0.58
34:BA:1371:G:H2'	34:BA:1372:U:O5'	2.03	0.58
34:BA:1419:G:O2'	34:BA:1420:C:H6	1.86	0.58
35:BC:47:U:C5	35:BC:49:C:C5'	2.85	0.58
35:BC:47:U:C4	35:BC:49:C:H4'	2.39	0.58
37:BE:88:ALA:CA	37:BE:222:ILE:HD13	2.32	0.58
38:BF:10:PHE:CZ	38:BF:178:LEU:CA	2.86	0.58
39:BG:3:ARG:HG3	39:BG:3:ARG:HH11	1.69	0.58
39:BG:63:LYS:CG	39:BG:64:LEU:N	2.66	0.58
42:BJ:10:ARG:CG	42:BJ:10:ARG:HH11	2.16	0.58
43:BK:89:PRO:HB3	43:BK:92:ARG:NH2	2.19	0.58
43:BK:134:ILE:CG2	43:BK:135:CYS:N	2.57	0.58
45:BM:46:ARG:HD3	45:BM:64:GLU:HB3	1.86	0.58
47:BO:102:ARG:HE	47:BO:109:GLY:HA2	1.68	0.58
48:BP:108:ARG:HA	48:BP:111:LYS:HB2	1.86	0.58
50:BR:51:HIS:O	50:BR:54:ARG:HB3	2.03	0.58
51:BS:1:MET:HE1	51:BS:2:VAL:O	2.03	0.58
51:BS:20:VAL:HG21	51:BS:32:TYR:CE2	2.39	0.58
51:BS:75:ARG:CG	51:BS:80:PHE:HB2	2.34	0.58
52:BT:15:MET:CB	52:BT:18:THR:HB	2.27	0.58
53:BU:40:LEU:HD23	53:BU:40:LEU:N	2.18	0.58
53:BU:47:THR:N	53:BU:49:LYS:HZ3	2.00	0.58
1:AB:73:A:N6	1:AB:104:A:C4	2.72	0.58
2:AA:115:C:O2'	2:AA:116:C:H5'	2.04	0.58
2:AA:126:A:H4'	31:A7:19:ARG:NH2	2.17	0.58
2:AA:270:A:N6	2:AA:424:G:N7	2.50	0.58
2:AA:284:U:H2'	2:AA:285:C:C6	2.39	0.58
2:AA:299:A:N1	2:AA:322:A:C5	2.72	0.58
2:AA:358:U:C3'	2:AA:359:A:H5'	2.33	0.58
2:AA:388:G:C2'	2:AA:390:A:N6	2.64	0.58
2:AA:443:A:H1'	2:AA:1201:C:C4'	2.33	0.58
2:AA:483:A:H3'	2:AA:484:C:H6	1.68	0.58
2:AA:515:A:C3'	2:AA:516:C:H6	2.15	0.58
2:AA:702:G:C6	2:AA:731:C:C4	2.92	0.58
2:AA:778:G:N2	2:AA:787:U:H1'	2.18	0.58
2:AA:818:G:C2	2:AA:1190:G:N1	2.71	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:823:G:O6	2:AA:835:A:C6	2.56	0.58
2:AA:869:G:O2'	15:AP:23:ILE:HG12	2.04	0.58
2:AA:1044:G:O2'	2:AA:1047:G:H1'	2.04	0.58
2:AA:1050:A:N3	2:AA:2752:C:C6	2.71	0.58
2:AA:1062:G:H22	11:AL:92:PRO:HG3	1.64	0.58
2:AA:1068:G:C2	2:AA:1069:A:N6	2.71	0.58
2:AA:1073:A:N7	2:AA:1074:G:C6	2.72	0.58
2:AA:1084:A:N7	9:AI:37:VAL:CG1	2.67	0.58
2:AA:1250:G:O2'	2:AA:1251:C:OP1	2.13	0.58
2:AA:1276:A:OP2	2:AA:1645:G:O2'	2.22	0.58
2:AA:1303:G:H2'	2:AA:1304:C:C6	2.39	0.58
2:AA:1426:G:H5''	2:AA:1427:A:C5'	2.34	0.58
2:AA:1529:A:N7	2:AA:1542:G:N1	2.52	0.58
2:AA:1657:C:O3'	5:AE:230:GLY:O	2.21	0.58
2:AA:1665:A:HO2'	13:AN:67:ARG:NH1	2.02	0.58
2:AA:1668:A:C2	2:AA:1670:C:N4	2.71	0.58
2:AA:1775:U:C2'	2:AA:1776:G:C5'	2.81	0.58
2:AA:1790:C:C5'	2:AA:1828:G:N1	2.61	0.58
2:AA:1949:G:O2'	2:AA:1950:G:C5'	2.50	0.58
2:AA:2009:G:C5'	18:AS:40:ASN:ND2	2.67	0.58
2:AA:2013:A:H2'	2:AA:2014:A:C5'	2.34	0.58
2:AA:2025:C:H2'	2:AA:2025:C:O2	2.03	0.58
2:AA:2135:A:O2'	2:AA:2154:G:C6	2.56	0.58
2:AA:2265:U:H3	2:AA:2266:A:H62	1.52	0.58
2:AA:2408:U:C2'	2:AA:2409:G:O5'	2.52	0.58
2:AA:2450:A:H5''	2:AA:2497:A:N6	2.19	0.58
2:AA:2720:U:O2	2:AA:2720:U:H2'	2.02	0.58
2:AA:2776:A:N6	2:AA:2782:G:H1'	2.18	0.58
2:AA:2878:U:O2'	2:AA:2879:C:O5'	2.15	0.58
3:AC:185:LEU:O	3:AC:189:ILE:HG13	2.04	0.58
4:AD:71:ASP:CG	4:AD:72:GLY:H	2.11	0.58
4:AD:131:LEU:HD12	4:AD:171:VAL:HG21	1.85	0.58
5:AE:41:PHE:HE1	5:AE:173:ARG:HH11	1.51	0.58
5:AE:247:ARG:HB3	5:AE:249:THR:CG2	2.32	0.58
5:AE:247:ARG:CB	5:AE:249:THR:OG1	2.51	0.58
6:AF:22:PHE:CZ	6:AF:115:LEU:CB	2.80	0.58
6:AF:56:THR:HB	6:AF:57:PRO:HD2	1.85	0.58
6:AF:150:THR:HA	6:AF:153:VAL:HG23	1.85	0.58
6:AF:193:LEU:CB	6:AF:233:THR:HB	2.34	0.58
8:AH:147:ILE:O	8:AH:161:ILE:HD12	2.04	0.58
9:AI:13:LEU:HB3	9:AI:17:GLU:HB2	1.85	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:30:GLY:C	9:AI:32:THR:H	2.12	0.58
11:AL:56:VAL:HG13	11:AL:69:ILE:O	2.04	0.58
12:AM:14:ALA:H	12:AM:40:ASN:CG	2.11	0.58
12:AM:44:ALA:CB	12:AM:132:LEU:HD23	2.31	0.58
13:AN:98:ILE:CD1	13:AN:114:ILE:HG23	2.28	0.58
14:AO:64:ILE:HD12	14:AO:106:VAL:CG1	2.27	0.58
14:AO:65:ASP:CB	14:AO:109:LEU:HB3	2.34	0.58
14:AO:81:VAL:HG13	14:AO:116:HIS:CD2	2.39	0.58
14:AO:132:LYS:N	14:AO:132:LYS:HD2	2.19	0.58
15:AP:46:VAL:HG13	15:AP:156:ASN:ND2	2.18	0.58
16:AQ:34:LEU:CD2	16:AQ:129:ILE:HD11	2.31	0.58
20:AU:50:VAL:HG12	20:AU:52:ARG:H	1.69	0.58
21:AV:94:VAL:HG11	21:AV:130:ILE:CG2	2.27	0.58
21:AV:110:GLY:C	21:AV:112:LEU:H	2.11	0.58
22:AW:7:GLU:CG	22:AW:8:ILE:N	2.66	0.58
23:AX:3:ARG:HE	23:AX:60:GLU:C	2.09	0.58
25:A1:74:MET:CG	25:A1:117:ARG:NH2	2.44	0.58
26:A2:5:ILE:N	26:A2:5:ILE:CD1	2.67	0.58
28:A4:23:GLU:O	28:A4:25:MET:N	2.36	0.58
34:BA:122:G:OP1	34:BA:122:G:H8	1.87	0.58
34:BA:166:G:H2'	34:BA:167:G:O5'	2.03	0.58
34:BA:185:A:C2	34:BA:193:C:N3	2.72	0.58
34:BA:192:U:O4'	55:BW:102:GLY:C	2.47	0.58
34:BA:260:G:C2	34:BA:261:U:O2	2.56	0.58
34:BA:267:C:H2'	34:BA:268:C:C6	2.39	0.58
34:BA:292:G:OP2	34:BA:305:G:N2	2.35	0.58
34:BA:327:A:C4'	34:BA:328:C:OP1	2.47	0.58
34:BA:376:G:H1	34:BA:387:U:H3	1.50	0.58
34:BA:417:C:N4	34:BA:426:G:N1	2.26	0.58
34:BA:609:A:C5	34:BA:610:G:C8	2.92	0.58
34:BA:736:C:H2'	34:BA:737:A:H8	1.68	0.58
34:BA:764:C:H2'	34:BA:765:G:C1'	2.33	0.58
34:BA:902:G:C2'	34:BA:903:G:H5'	2.34	0.58
34:BA:924:C:O2'	34:BA:1399:C:H6	1.87	0.58
34:BA:965:A:C2	34:BA:969:A:C2	2.92	0.58
34:BA:983:A:N3	34:BA:983:A:C3'	2.66	0.58
34:BA:1201:A:O2'	34:BA:1202:G:C5'	2.52	0.58
34:BA:1292:U:C6	34:BA:1292:U:OP2	2.55	0.58
34:BA:1306:A:N6	34:BA:1331:G:H1'	2.19	0.58
34:BA:1317:C:OP1	49:BQ:16:PHE:HB3	2.04	0.58
34:BA:1476:G:N1	34:BA:1477:C:N4	2.52	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:57:G:C8	35:BC:57:G:H3'	2.38	0.58
37:BE:102:LEU:N	37:BE:102:LEU:CD1	2.67	0.58
38:BF:83:ARG:HE	38:BF:87:LEU:HD21	1.65	0.58
38:BF:126:ARG:C	38:BF:127:ARG:HG3	2.28	0.58
38:BF:167:TRP:O	38:BF:167:TRP:CE3	2.57	0.58
39:BG:36:ARG:HG2	39:BG:38:TYR:OH	2.04	0.58
39:BG:128:VAL:HG12	39:BG:129:ASN:N	2.18	0.58
39:BG:144:ASP:C	39:BG:184:LYS:HG2	2.29	0.58
41:BI:45:LEU:HD21	41:BI:59:TYR:HD1	1.69	0.58
45:BM:24:VAL:HG13	45:BM:34:VAL:CG1	2.33	0.58
45:BM:39:PRO:HA	45:BM:69:ASN:O	2.04	0.58
46:BN:28:THR:CG2	46:BN:29:ILE:N	2.67	0.58
46:BN:69:ALA:O	46:BN:70:LYS:C	2.43	0.58
48:BP:78:ILE:O	48:BP:82:MET:HB2	2.03	0.58
49:BQ:6:LEU:O	49:BQ:8:GLU:N	2.36	0.58
51:BS:4:ILE:HG13	51:BS:66:PRO:HB3	1.85	0.58
53:BU:27:GLY:O	53:BU:28:GLU:C	2.45	0.58
53:BU:38:GLU:OE2	53:BU:39:VAL:N	2.36	0.58
1:AB:47:C:O3'	16:AQ:107:ASN:CG	2.46	0.58
1:AB:52:A:H2'	1:AB:53:A:C8	2.38	0.58
2:AA:452:G:H21	2:AA:457:A:H2	1.51	0.58
2:AA:458:G:O2'	2:AA:469:G:C2	2.50	0.58
2:AA:465:G:C5	2:AA:466:A:N6	2.72	0.58
2:AA:529:A:H5''	2:AA:529:A:H8	1.69	0.58
2:AA:530:G:H22	2:AA:2021:C:C5'	2.08	0.58
2:AA:531:C:H42	25:A1:38:THR:CB	2.17	0.58
2:AA:611:C:N3	2:AA:617:G:O6	2.36	0.58
2:AA:776:G:H1'	2:AA:793:A:N1	2.19	0.58
2:AA:868:U:H3	2:AA:909:A:H61	1.52	0.58
2:AA:943:U:H3'	2:AA:943:U:C6	2.39	0.58
2:AA:1024:G:O6	2:AA:1138:G:O6	2.21	0.58
2:AA:1057:A:C2	2:AA:1058:G:C8	2.92	0.58
2:AA:1063:G:N2	2:AA:1076:C:N1	2.52	0.58
2:AA:1066:U:C2'	2:AA:1067:A:H5''	2.34	0.58
2:AA:1110:G:O3'	2:AA:1111:A:C8	2.57	0.58
2:AA:1140:C:C4	12:AM:49:ARG:NE	2.72	0.58
2:AA:1423:G:N2	2:AA:1424:G:C4	2.72	0.58
2:AA:1472:A:C6	2:AA:1518:C:N4	2.72	0.58
2:AA:1568:G:H3'	4:AD:60:GLN:HG2	1.86	0.58
2:AA:1613:G:C2'	2:AA:1614:A:OP1	2.52	0.58
2:AA:1617:C:H2'	2:AA:1617:C:O2	2.02	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1620:G:H2'	2:AA:1621:U:H6	1.69	0.58
2:AA:1653:G:H8	2:AA:1653:G:C5'	2.16	0.58
2:AA:1691:C:C2'	2:AA:1691:C:O2	2.45	0.58
2:AA:1703:G:N1	2:AA:1704:G:C4	2.72	0.58
2:AA:1717:G:N2	2:AA:1718:G:N3	2.52	0.58
2:AA:1769:G:N1	2:AA:1984:G:C5	2.72	0.58
2:AA:1817:G:H8	2:AA:1817:G:H5'	1.69	0.58
2:AA:1941:C:O2	2:AA:1941:C:C2'	2.49	0.58
2:AA:2019:A:O2'	2:AA:2020:A:P	2.62	0.58
2:AA:2040:C:H4'	12:AM:69:TYR:CE2	2.39	0.58
2:AA:2147:G:C2	2:AA:2148:G:O6	2.56	0.58
2:AA:2430:A:C2'	2:AA:2431:U:H5'	2.34	0.58
2:AA:2486:G:C2'	2:AA:2487:G:O5'	2.52	0.58
2:AA:2497:A:O2'	2:AA:2498:C:O5'	2.22	0.58
2:AA:2526:G:C2'	2:AA:2527:C:O5'	2.52	0.58
2:AA:2581:G:C2	2:AA:2610:C:C6	2.91	0.58
2:AA:2620:C:O2'	2:AA:2621:A:O5'	2.21	0.58
2:AA:2850:A:H8	2:AA:2850:A:O5'	1.87	0.58
2:AA:2870:C:H5''	24:A0:64:ARG:HH22	1.68	0.58
2:AA:2887:U:H2'	2:AA:2888:C:H6	1.68	0.58
2:AA:2897:U:H2'	2:AA:2898:U:C6	2.36	0.58
3:AC:115:ALA:O	3:AC:117:PRO:HD3	2.04	0.58
3:AC:190:ARG:HH21	3:AC:228:SER:C	2.11	0.58
4:AD:89:ASN:CG	4:AD:199:ARG:NH2	2.61	0.58
4:AD:194:VAL:HG23	4:AD:195:GLY:H	1.69	0.58
4:AD:232:VAL:HG23	4:AD:233:ASP:H	1.66	0.58
5:AE:38:VAL:HG22	5:AE:81:VAL:HG22	1.85	0.58
5:AE:45:LYS:NZ	5:AE:301:PRO:CG	2.51	0.58
5:AE:101:THR:O	5:AE:102:ASP:O	2.22	0.58
5:AE:107:GLU:O	5:AE:109:ASP:N	2.34	0.58
9:AI:57:THR:O	9:AI:58:GLU:HG3	2.03	0.58
9:AI:60:ASP:HB2	9:AI:128:LYS:CD	2.33	0.58
9:AJ:64:LYS:HE2	9:AJ:125:VAL:O	2.04	0.58
10:AK:30:LEU:O	10:AK:33:GLN:HB2	2.04	0.58
10:AK:112:LYS:O	10:AK:114:LYS:N	2.37	0.58
11:AL:89:SER:OG	11:AL:95:LYS:HD3	2.03	0.58
12:AM:39:VAL:O	12:AM:40:ASN:OD1	2.21	0.58
13:AN:64:ARG:CB	13:AN:79:PHE:HD1	2.13	0.58
13:AN:88:ARG:NE	13:AN:94:ARG:HD3	2.19	0.58
16:AQ:34:LEU:CD1	16:AQ:102:LEU:HA	2.34	0.58
17:AR:13:ILE:CG1	17:AR:33:SER:CB	2.78	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:49:GLU:HB3	20:AU:97:ARG:NH1	2.19	0.58
21:AV:6:LYS:CD	21:AV:30:VAL:HG11	2.33	0.58
21:AV:10:PRO:CG	21:AV:11:LYS:H	2.05	0.58
21:AV:16:GLU:C	21:AV:36:ARG:CZ	2.77	0.58
21:AV:51:LEU:HD21	21:AV:64:ALA:CA	2.32	0.58
21:AV:55:THR:HA	21:AV:61:THR:HG22	1.84	0.58
21:AV:90:GLU:O	21:AV:91:PRO:C	2.47	0.58
23:AX:27:GLY:O	23:AX:28:LEU:CD2	2.52	0.58
25:A1:55:ARG:HG2	25:A1:58:ARG:CZ	2.34	0.58
26:A2:15:SER:HB2	26:A2:99:GLN:OE1	2.04	0.58
26:A2:20:ILE:CG1	26:A2:67:LYS:NZ	2.64	0.58
27:A3:46:LYS:CG	27:A3:58:THR:HG23	2.34	0.58
28:A4:49:PHE:CZ	28:A4:70:GLY:O	2.57	0.58
29:A5:44:HIS:CA	29:A5:52:TYR:OH	2.51	0.58
34:BA:40:C:O2'	34:BA:41:G:H5'	2.04	0.58
34:BA:79:G:N2	34:BA:91:C:H1'	2.14	0.58
34:BA:123:C:H1'	34:BA:290:C:H1'	1.85	0.58
34:BA:236:G:H3'	34:BA:237:C:H6	1.69	0.58
34:BA:316:G:C2	34:BA:317:G:C8	2.92	0.58
34:BA:429:U:H1'	34:BA:430:A:H5''	1.86	0.58
34:BA:734:G:C5	34:BA:735:C:C4	2.90	0.58
34:BA:877:C:O3'	43:BK:88:LYS:HB3	2.02	0.58
34:BA:978:A:N6	34:BA:1318:A:N6	2.51	0.58
34:BA:1223:C:O5'	34:BA:1224:G:H5''	2.04	0.58
34:BA:1261:A:H2'	34:BA:1261:A:N3	2.19	0.58
34:BA:1373:G:C4'	42:BJ:36:LYS:NZ	2.63	0.58
35:BC:5:A:O2'	35:BC:6:U:C5'	2.51	0.58
35:BC:17:U:H3'	35:BC:18:G:H3'	1.86	0.58
37:BE:10:LEU:CD2	37:BE:11:LEU:HD23	2.33	0.58
37:BE:22:LYS:HD2	37:BE:40:HIS:CE1	2.38	0.58
37:BE:123:ALA:O	37:BE:127:ILE:HG13	2.04	0.58
37:BE:239:VAL:O	37:BE:240:GLN:CB	2.52	0.58
38:BF:11:ARG:O	38:BF:14:ILE:N	2.35	0.58
38:BF:52:LEU:H	38:BF:52:LEU:CD2	2.16	0.58
39:BG:120:LEU:HD23	39:BG:120:LEU:C	2.29	0.58
39:BG:191:ARG:NH2	39:BG:196:LEU:CB	2.67	0.58
41:BI:6:VAL:O	41:BI:62:TRP:HA	2.04	0.58
41:BI:40:VAL:HG23	41:BI:63:TYR:CE1	2.35	0.58
42:BJ:76:ARG:HB3	42:BJ:156:TRP:CZ2	2.38	0.58
43:BK:7:ALA:HA	43:BK:10:LEU:HD12	1.85	0.58
45:BM:52:GLY:O	45:BM:56:HIS:HD2	1.87	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:43:VAL:HG12	47:BO:44:THR:N	2.18	0.58
48:BP:27:LYS:O	48:BP:28:ALA:CB	2.51	0.58
50:BR:9:GLN:O	50:BR:11:VAL:N	2.36	0.58
51:BS:75:ARG:HA	51:BS:80:PHE:HD1	1.69	0.58
52:BT:6:LEU:O	52:BT:58:GLU:HA	2.03	0.58
53:BU:21:LYS:HZ3	53:BU:23:LYS:H	1.49	0.58
53:BU:66:LEU:O	53:BU:70:ILE:HG13	2.04	0.58
1:AB:18:G:H2'	1:AB:19:G:H8	1.68	0.57
1:AB:30:C:H2'	1:AB:31:C:H5'	1.86	0.57
1:AB:40:U:OP2	1:AB:40:U:C6	2.57	0.57
1:AB:43:C:H1'	7:AG:47:GLN:CG	2.34	0.57
1:AB:68:C:H2'	1:AB:69:G:H1'	1.85	0.57
2:AA:92:G:C2	2:AA:93:C:C5	2.92	0.57
2:AA:144:C:H2'	2:AA:145:G:C8	2.29	0.57
2:AA:265:A:N1	2:AA:281:G:P	2.77	0.57
2:AA:290:G:C8	2:AA:290:G:OP2	2.57	0.57
2:AA:441:U:H5	20:AU:3:GLN:HE22	1.50	0.57
2:AA:572:A:C6	2:AA:573:G:C2	2.92	0.57
2:AA:593:G:C4'	32:A8:3:LYS:HZ2	2.17	0.57
2:AA:602:G:H4'	2:AA:603:A:O3'	2.04	0.57
2:AA:702:G:H2'	2:AA:703:U:H6	1.70	0.57
2:AA:729:G:N2	2:AA:1775:U:C6	2.72	0.57
2:AA:749:C:O2	2:AA:1618:A:C8	2.57	0.57
2:AA:805:G:N7	2:AA:2067:G:O3'	2.36	0.57
2:AA:1025:G:N3	2:AA:1025:G:C2'	2.67	0.57
2:AA:1026:U:C6	2:AA:1026:U:C4'	2.87	0.57
2:AA:1165:U:O2	2:AA:1166:C:C5	2.56	0.57
2:AA:1435:G:H1	2:AA:1557:C:H42	1.50	0.57
2:AA:444(A):A:H2	2:AA:1461:G:O5'	1.86	0.57
2:AA:1567:A:C2	4:AD:84:PRO:CD	2.85	0.57
2:AA:1655:A:OP2	2:AA:1655:A:C8	2.57	0.57
2:AA:1799:G:O2'	2:AA:1800:C:O4'	2.21	0.57
2:AA:1853:A:H2'	2:AA:1854:A:O4'	2.04	0.57
2:AA:1946:U:H2'	2:AA:1947:C:H6	1.67	0.57
2:AA:1953:A:N6	2:AA:2550:G:C4'	2.66	0.57
2:AA:2043:C:N4	2:AA:2777:G:C2	2.71	0.57
2:AA:2226:C:O2	2:AA:2227:A:O2'	2.21	0.57
2:AA:2511:U:C4	2:AA:2512:C:C5	2.92	0.57
2:AA:2521:C:H2'	2:AA:2522:U:O4'	2.03	0.57
2:AA:2688:U:C4	2:AA:2719:G:H2'	2.39	0.57
2:AA:2703:C:H5	2:AA:2704:C:C4	2.22	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2785:C:O4'	5:AE:98:GLU:O	2.21	0.57
2:AA:2819:G:H5''	2:AA:2821:A:N6	2.18	0.57
2:AA:2880:C:O2'	24:A0:90:ARG:CD	2.52	0.57
3:AC:15:ASP:OD2	3:AC:20:TYR:HE2	1.86	0.57
4:AD:95:TYR:HB2	4:AD:99:GLU:HG3	1.85	0.57
4:AD:211:HIS:O	4:AD:212:HIS:C	2.46	0.57
5:AE:83:LEU:HD22	5:AE:178:LEU:HD23	1.86	0.57
7:AG:11:HIS:NE2	7:AG:15:GLU:OE2	2.37	0.57
8:AH:36:PHE:CE2	8:AH:70:LEU:HB3	2.39	0.57
8:AH:37:HIS:CE1	8:AH:67:THR:CG2	2.87	0.57
10:AK:112:LYS:HD3	10:AK:112:LYS:N	2.19	0.57
10:AK:132:LYS:HA	10:AK:138:THR:CB	2.34	0.57
15:AP:42:TYR:HA	21:AV:119:ASN:CG	2.29	0.57
15:AP:49:VAL:CG2	15:AP:121:ASP:H	2.16	0.57
20:AU:61:GLU:O	20:AU:75:GLU:OE2	2.21	0.57
21:AV:151:ASP:O	21:AV:153:LYS:N	2.37	0.57
22:AW:59:ILE:CG2	22:AW:60:GLN:N	2.67	0.57
24:A0:26:LYS:NZ	24:A0:70:LEU:O	2.37	0.57
24:A0:85:PRO:O	24:A0:87:TYR:N	2.37	0.57
27:A3:28:GLY:O	27:A3:29:GLU:HG2	2.04	0.57
27:A3:43:THR:HG21	27:A3:75:GLY:N	2.19	0.57
27:A3:46:LYS:NZ	27:A3:61:ALA:HB2	2.19	0.57
27:A3:66:LYS:HD2	27:A3:66:LYS:H	1.68	0.57
30:A6:16:ALA:HB3	30:A6:19:GLY:CA	2.34	0.57
32:A8:29:LYS:HB3	32:A8:34:THR:HG21	1.85	0.57
34:BA:101:A:O5'	34:BA:101:A:H8	1.86	0.57
34:BA:391:G:P	51:BS:28:ARG:NH2	2.77	0.57
34:BA:443:C:N4	34:BA:491:G:H1	2.02	0.57
34:BA:450:G:H1	34:BA:483:C:N4	2.00	0.57
34:BA:572:A:C2	34:BA:916:G:N2	2.72	0.57
34:BA:735:C:H5'	53:BU:71:LYS:CD	2.34	0.57
34:BA:761:G:C1'	52:BT:103:GLY:O	2.51	0.57
34:BA:771:G:C6	34:BA:809:G:C5	2.92	0.57
34:BA:1009:G:O2'	34:BA:1010:G:H5'	2.04	0.57
34:BA:1130:A:C8	34:BA:1131:G:N7	2.72	0.57
34:BA:1145:C:H1'	34:BA:1146:A:C8	2.39	0.57
34:BA:1251:A:H1'	34:BA:1369:C:O2'	2.03	0.57
34:BA:1346:A:C8	34:BA:1348:U:C2	2.92	0.57
34:BA:1346:A:C5'	44:BL:120:ARG:HH12	2.16	0.57
34:BA:1425:U:H2'	34:BA:1426:C:H6	1.68	0.57
34:BA:1531:A:O2'	34:BA:1532:U:N1	2.33	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:21:A:N7	35:BC:46:G:C6	2.72	0.57
35:BC:47:U:C4	35:BC:49:C:O3'	2.57	0.57
36:B1:57:A:N3	36:B1:57:A:OP2	2.36	0.57
37:BE:76:GLN:O	37:BE:77:ALA:CB	2.52	0.57
38:BF:3:ASN:O	38:BF:4:LYS:O	2.22	0.57
38:BF:10:PHE:HZ	38:BF:178:LEU:CA	2.16	0.57
39:BG:101:LEU:HB2	39:BG:138:TYR:O	2.03	0.57
39:BG:148:VAL:HB	39:BG:181:MET:HE1	1.86	0.57
40:BH:76:ILE:HG12	40:BH:77:PRO:HD2	1.86	0.57
42:BJ:15:ASP:HB2	42:BJ:23:VAL:HB	1.86	0.57
43:BK:100:ILE:CG2	43:BK:125:ARG:NH2	2.67	0.57
45:BM:54:PHE:CZ	45:BM:55:LYS:CE	2.86	0.57
47:BO:24:VAL:HG12	47:BO:24:VAL:O	2.03	0.57
48:BP:51:ALA:HA	48:BP:54:VAL:HG23	1.86	0.57
49:BQ:40:CYS:HB2	49:BQ:42:ILE:CB	2.31	0.57
49:BQ:42:ILE:HG22	49:BQ:46:GLU:OE2	2.04	0.57
52:BT:19:VAL:O	52:BT:43:LEU:HD23	2.03	0.57
1:AB:1:U:H6	1:AB:1:U:H5''	1.69	0.57
1:AB:78:A:C2'	1:AB:79:C:H5'	2.34	0.57
1:AB:99:A:C2	1:AB:100:G:C4	2.91	0.57
2:AA:80:G:C2'	2:AA:81:G:H5'	2.34	0.57
2:AA:118:A:H5''	2:AA:119:A:OP2	2.05	0.57
2:AA:319:C:C5	2:AA:320:A:N7	2.72	0.57
2:AA:363(C):G:C2'	2:AA:363(D):G:H5'	2.30	0.57
2:AA:494:G:C2	2:AA:495:G:C8	2.92	0.57
2:AA:566:U:OP2	26:A2:81:ARG:NE	2.37	0.57
2:AA:601:C:C2'	2:AA:602:G:H5'	2.32	0.57
2:AA:740:U:C4	2:AA:758:C:O2	2.57	0.57
2:AA:971:C:O2'	2:AA:972:G:C4'	2.52	0.57
2:AA:1054:A:C2'	2:AA:1055:G:C8	2.84	0.57
2:AA:1065:U:N3	2:AA:1066:U:C6	2.72	0.57
2:AA:1119:C:O2	2:AA:1119:C:C2'	2.51	0.57
2:AA:1165:U:H2'	2:AA:1166:C:C5	2.39	0.57
2:AA:1174:A:C2	2:AA:1176:G:O4'	2.57	0.57
2:AA:1178:C:O2'	2:AA:1179:C:O5'	2.20	0.57
2:AA:1181:C:O2'	2:AA:1182:A:C8	2.56	0.57
2:AA:1202:C:C4	2:AA:1243:G:N2	2.69	0.57
2:AA:1284:A:O2'	2:AA:1285:G:H5'	2.04	0.57
2:AA:1315:C:H2'	2:AA:1316:U:H6	1.68	0.57
2:AA:1794:U:H4'	2:AA:1900:A:N7	2.18	0.57
2:AA:1872:A:H2'	2:AA:1878:G:O4'	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1912:A:N6	34:BA:1407:C:O2'	2.37	0.57
2:AA:1968:G:H2'	2:AA:1969:A:OP2	2.03	0.57
2:AA:2150:U:OP1	2:AA:2151:G:OP1	2.22	0.57
2:AA:2191:G:O2'	2:AA:2192:G:H5'	2.05	0.57
2:AA:2295:C:C2	2:AA:2337:G:N2	2.63	0.57
2:AA:2504:U:O5'	2:AA:2504:U:H6	1.87	0.57
2:AA:2520:C:C2'	2:AA:2521:C:H5'	2.34	0.57
2:AA:2618:G:N3	2:AA:2619:C:C6	2.72	0.57
2:AA:2623:G:O2'	2:AA:2825:C:O2'	2.22	0.57
2:AA:2627:G:C6	2:AA:2777:G:O6	2.57	0.57
2:AA:2820:A:H5''	2:AA:2820:A:N3	2.19	0.57
2:AA:2834:G:H3'	2:AA:2834:G:C8	2.39	0.57
2:AA:2879:C:OP2	2:AA:2879:C:H6	1.86	0.57
3:AC:93:TYR:HE2	3:AC:110:PHE:CA	2.16	0.57
6:AF:102:LEU:HD22	6:AF:106:GLU:OE1	2.04	0.57
6:AF:139:VAL:O	6:AF:139:VAL:HG12	2.05	0.57
6:AF:194:PHE:O	6:AF:212:VAL:HA	2.04	0.57
7:AG:28:GLY:C	7:AG:69:ILE:HG12	2.30	0.57
7:AG:151:ILE:CD1	7:AG:156:ARG:HH22	2.17	0.57
9:AI:1:MET:CE	9:AJ:86:LYS:HD2	2.27	0.57
9:AI:2:THR:O	9:AI:5:GLU:HB2	2.05	0.57
9:AJ:15:VAL:HG11	9:AJ:49:ALA:HB2	1.85	0.57
12:AM:60:ARG:CA	12:AM:71:TYR:HD2	2.18	0.57
13:AN:1:MET:CA	13:AN:32:TYR:HD2	2.17	0.57
13:AN:3:GLN:CA	13:AN:21:VAL:HG11	2.22	0.57
13:AN:88:ARG:NH1	13:AN:94:ARG:HD3	2.18	0.57
15:AP:34:GLY:HA3	15:AP:83:PHE:HD1	1.68	0.57
18:AS:11:ARG:C	18:AS:12:ILE:HG13	2.29	0.57
20:AU:48:VAL:CG1	20:AU:49:GLU:N	2.67	0.57
21:AV:18:MET:N	21:AV:36:ARG:HE	2.03	0.57
22:AW:19:GLU:OE2	22:AW:23:LEU:HD11	2.03	0.57
24:A0:32:GLY:O	24:A0:116:LEU:HG	2.04	0.57
25:A1:59:ARG:O	25:A1:62:ILE:CB	2.51	0.57
25:A1:79:PHE:O	25:A1:83:LEU:HD12	2.04	0.57
26:A2:6:GLN:NE2	26:A2:10:LYS:CA	2.67	0.57
32:A8:39:ASP:O	32:A8:42:ARG:HB2	2.03	0.57
32:A8:61:MET:O	32:A8:62:LEU:CB	2.51	0.57
34:BA:51:A:C2	34:BA:353:A:N6	2.72	0.57
34:BA:62:U:H5''	34:BA:385:C:O2	2.05	0.57
34:BA:78:G:C6	34:BA:92:C:N4	2.72	0.57
34:BA:116:A:H2'	34:BA:117:G:O4'	2.03	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:132:C:H5'	34:BA:262:A:H1'	1.86	0.57
34:BA:478:A:H2'	34:BA:479:C:C6	2.39	0.57
34:BA:492:G:C5	34:BA:494:G:C8	2.92	0.57
34:BA:562:C:HO2'	47:BO:15:ARG:HB3	1.62	0.57
34:BA:604:G:H2'	34:BA:605:U:O4'	2.04	0.57
34:BA:675:A:N1	34:BA:716:A:C2	2.72	0.57
34:BA:695:A:O2'	34:BA:696:A:H5'	2.03	0.57
34:BA:711:G:O2'	34:BA:712:A:H5'	2.04	0.57
34:BA:779:C:O2'	34:BA:780:A:H5'	2.04	0.57
34:BA:1188:A:C2	34:BA:1189:C:C2	2.91	0.57
34:BA:1215:G:C2	34:BA:1216:G:C8	2.92	0.57
34:BA:1299:A:C8	34:BA:1301:U:C1'	2.67	0.57
34:BA:1351:U:O4	44:BL:118:LYS:CE	2.52	0.57
34:BA:1494:G:N1	34:BA:1495:U:C5	2.71	0.57
35:BB:1:G:C2	35:BB:73:A:C2	2.91	0.57
35:BB:32:C:OP2	35:BB:32:C:C5	2.57	0.57
35:BB:49:C:N3	35:BB:66:A:C6	2.72	0.57
41:BI:18:GLN:O	41:BI:19:LEU:C	2.46	0.57
45:BM:5:ARG:O	45:BM:98:ILE:HG23	2.04	0.57
45:BM:78:ASN:O	45:BM:80:LYS:N	2.37	0.57
47:BO:53:ARG:HG3	47:BO:69:TYR:CZ	2.39	0.57
47:BO:68:ALA:HB1	47:BO:99:HIS:HA	1.85	0.57
48:BP:69:GLU:O	48:BP:72:ALA:HB3	2.03	0.57
49:BQ:42:ILE:HG22	49:BQ:43:CYS:N	2.19	0.57
56:BX:12:LYS:HG3	56:BX:18:TYR:HA	1.86	0.57
2:AA:137:C:O2	2:AA:137(A):G:C4	2.57	0.57
2:AA:153:C:N3	2:AA:174:C:C4	2.72	0.57
2:AA:326:G:N1	2:AA:337:C:C2	2.73	0.57
2:AA:529:A:H2	2:AA:2022:U:OP1	1.87	0.57
2:AA:592:G:C6	2:AA:593:G:C5	2.91	0.57
2:AA:686:G:C4'	2:AA:687:C:OP2	2.51	0.57
2:AA:729:G:O2'	2:AA:763:G:H4'	2.04	0.57
2:AA:785:G:C2	2:AA:786:C:C2	2.92	0.57
2:AA:912:C:H2'	2:AA:913:U:C5'	2.34	0.57
2:AA:1052:C:C2	2:AA:1053:C:C5	2.92	0.57
2:AA:1057:A:O2'	9:AI:6:ILE:HD11	2.04	0.57
2:AA:1353:A:O2'	2:AA:1354:A:C5'	2.51	0.57
2:AA:1468:C:O2	2:AA:1468:C:H2'	2.05	0.57
2:AA:1492:G:H1'	2:AA:1493:C:C5	2.39	0.57
2:AA:1524:G:N7	2:AA:1525:G:N7	2.52	0.57
2:AA:1651:G:H2'	2:AA:1652:A:H8	1.69	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1667:G:C2'	2:AA:1991:U:O4	2.51	0.57
2:AA:1742:C:H2'	2:AA:1743:G:C8	2.38	0.57
2:AA:1773:A:H2'	2:AA:1774:C:C5'	2.33	0.57
2:AA:1779:U:O4	2:AA:1784:A:N3	2.37	0.57
2:AA:1790:C:O2	2:AA:1790:C:C2'	2.53	0.57
2:AA:1807:G:N2	2:AA:1809:A:P	2.77	0.57
2:AA:1832:C:C4	2:AA:1833:U:C5	2.92	0.57
2:AA:1904:G:O2'	2:AA:1905:C:C5'	2.48	0.57
2:AA:1933:G:H2'	2:AA:1934:C:O4'	2.04	0.57
2:AA:2027:G:N2	2:AA:2028:U:H1'	2.19	0.57
2:AA:2110:G:C4	2:AA:2111:C:N4	2.72	0.57
2:AA:2225:A:H4'	2:AA:2226:C:O5'	2.04	0.57
2:AA:2274:A:N6	2:AA:2276:G:C4	2.72	0.57
2:AA:2469:A:C2	2:AA:2482:G:N9	2.72	0.57
2:AA:2479:G:OP1	2:AA:2537:U:C1'	2.53	0.57
2:AA:2639:A:N1	2:AA:2640:G:H1'	2.19	0.57
2:AA:2695:C:O2'	2:AA:2696:U:C6	2.58	0.57
2:AA:2792:G:N1	2:AA:2804:C:C4	2.72	0.57
2:AA:2795:G:O2'	2:AA:2797:U:H6	1.86	0.57
3:AC:77:ILE:HG21	3:AC:123:VAL:CG2	2.34	0.57
4:AD:73:ILE:CG2	4:AD:95:TYR:HD2	2.16	0.57
4:AD:115:ILE:HG21	4:AD:127:ASN:HD21	1.70	0.57
4:AD:140:VAL:HG12	4:AD:190:THR:O	2.04	0.57
5:AE:76:PRO:CB	5:AE:77:PRO:CD	2.78	0.57
5:AE:207:GLY:CA	5:AE:257:GLY:HA3	2.33	0.57
6:AF:36:ARG:N	6:AF:39:GLN:HE22	2.02	0.57
6:AF:80:VAL:CG1	6:AF:81:PRO:N	2.67	0.57
6:AF:81:PRO:HA	6:AF:87:ARG:HH11	1.68	0.57
6:AF:93:LYS:HB2	6:AF:96:LYS:CD	2.34	0.57
7:AG:71:ALA:C	7:AG:72:LYS:HG2	2.29	0.57
7:AG:97:GLN:CD	7:AG:106:PHE:CD2	2.82	0.57
8:AH:30:GLY:HA3	8:AH:78:VAL:HA	1.86	0.57
8:AH:115:GLU:O	8:AH:115:GLU:CD	2.47	0.57
10:AK:21:VAL:HG12	10:AK:26:ALA:HB2	1.86	0.57
15:AP:57:ARG:HB3	15:AP:60:ALA:HB3	1.87	0.57
16:AQ:94:GLU:O	16:AQ:95:ALA:C	2.47	0.57
17:AR:6:CYS:SG	17:AR:32:CYS:N	2.78	0.57
17:AR:10:GLY:CA	17:AR:53:ASP:H	2.18	0.57
20:AU:41:ARG:O	20:AU:112:LEU:HB2	2.05	0.57
20:AU:43:ASN:ND2	20:AU:101:LEU:HD23	2.18	0.57
21:AV:6:LYS:O	21:AV:31:SER:HB3	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:18:MET:H	21:AV:36:ARG:HH21	1.52	0.57
21:AV:23:ALA:O	21:AV:29:ASN:HA	2.04	0.57
21:AV:75:LYS:CE	21:AV:77:ALA:HB3	2.35	0.57
22:AW:7:GLU:OE1	22:AW:8:ILE:HG13	2.04	0.57
25:A1:101:ARG:HB2	26:A2:13:ARG:NH2	2.18	0.57
26:A2:14:VAL:CG1	26:A2:15:SER:H	2.14	0.57
27:A3:68:VAL:HG11	27:A3:71:ASN:HB2	1.86	0.57
30:A6:16:ALA:C	30:A6:19:GLY:H	2.12	0.57
33:A9:2:LYS:N	33:A9:35:ARG:HB3	2.19	0.57
34:BA:191:G:H2'	34:BA:192:U:H6	1.70	0.57
34:BA:223:U:O2'	34:BA:224:C:H5'	2.03	0.57
34:BA:354:G:H21	34:BA:388:G:H3'	1.70	0.57
34:BA:414:A:H2'	34:BA:415:A:C8	2.33	0.57
34:BA:536:C:H2'	34:BA:537:G:C5'	2.29	0.57
34:BA:593:G:C2'	34:BA:594:G:H5'	2.34	0.57
34:BA:600:C:H4'	43:BK:128:GLY:O	2.05	0.57
34:BA:676:A:C6	34:BA:677:U:C4	2.92	0.57
34:BA:695:A:P	46:BN:52:GLY:HA3	2.44	0.57
34:BA:799:G:C6	34:BA:800:G:C2	2.92	0.57
34:BA:892:A:HO2'	34:BA:1415:G:HO2'	1.46	0.57
34:BA:911:U:C2	34:BA:912:C:C5	2.92	0.57
34:BA:1062:U:C2	34:BA:1063:C:C4	2.92	0.57
34:BA:1081:G:O2'	34:BA:1082:G:H5'	2.03	0.57
34:BA:1260:C:H4'	34:BA:1283:G:O2'	2.04	0.57
34:BA:1298:C:C2'	42:BJ:114:ARG:HH12	2.16	0.57
34:BA:1306:A:C6	34:BA:1307:U:C2	2.93	0.57
34:BA:1316:G:C2'	34:BA:1318:A:OP2	2.47	0.57
34:BA:1343:G:H2'	34:BA:1344:C:C6	2.39	0.57
35:BC:56:C:N3	35:BC:57:G:C2	2.72	0.57
37:BE:61:LEU:HD23	37:BE:61:LEU:C	2.29	0.57
38:BF:88:ARG:CG	38:BF:101:LEU:HB2	2.33	0.57
38:BF:179:ARG:HG3	38:BF:179:ARG:NH1	2.19	0.57
39:BG:152:SER:O	39:BG:155:LEU:HG	2.04	0.57
40:BH:31:LEU:C	40:BH:31:LEU:CD2	2.77	0.57
40:BH:78:HIS:CE1	40:BH:142:LEU:HD23	2.38	0.57
41:BI:4:TYR:HB3	41:BI:91:VAL:O	2.04	0.57
41:BI:6:VAL:HG13	41:BI:6:VAL:O	2.04	0.57
42:BJ:113:GLU:OE1	42:BJ:122:HIS:CE1	2.57	0.57
43:BK:98:LYS:HZ2	43:BK:98:LYS:CA	2.17	0.57
44:BL:56:LEU:C	44:BL:58:ARG:H	2.12	0.57
44:BL:112:LYS:C	44:BL:113:LYS:HD2	2.28	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:20:TYR:CD1	46:BN:33:THR:HG21	2.38	0.57
47:BO:119:LYS:HB3	47:BO:120:TYR:HD1	1.70	0.57
51:BS:59:TRP:O	51:BS:60:LEU:C	2.48	0.57
51:BS:70:ALA:O	51:BS:71:ARG:C	2.47	0.57
52:BT:12:SER:HB3	52:BT:20:THR:OG1	2.04	0.57
54:BV:19:VAL:O	54:BV:23:ASN:HB2	2.03	0.57
55:BW:57:ARG:O	55:BW:60:GLU:N	2.37	0.57
2:AA:8:A:H2'	2:AA:9:U:C6	2.39	0.57
2:AA:126:A:C4'	31:A7:19:ARG:HH21	2.17	0.57
2:AA:176:G:H3'	2:AA:177:G:C8	2.38	0.57
2:AA:204:A:OP1	2:AA:204:A:H8	1.86	0.57
2:AA:246:C:C4	2:AA:247:G:C6	2.92	0.57
2:AA:265:A:O2'	2:AA:266:G:C5'	2.53	0.57
2:AA:300:A:H1'	2:AA:319:C:O4'	2.04	0.57
2:AA:338:G:OP1	2:AA:338:G:H8	1.87	0.57
2:AA:370:G:O2'	2:AA:371:A:O5'	2.20	0.57
2:AA:466:A:C2	2:AA:796:C:H1'	2.40	0.57
2:AA:476:G:C4'	2:AA:505:A:C2	2.86	0.57
2:AA:542:C:O2'	2:AA:543:C:H5'	2.03	0.57
2:AA:577:G:C6	2:AA:578:A:N6	2.72	0.57
2:AA:618:G:N7	2:AA:618(A):C:N4	2.53	0.57
2:AA:715:G:C3'	2:AA:715:G:P	2.92	0.57
2:AA:764:A:C5'	2:AA:765:G:OP2	2.52	0.57
2:AA:784:A:N6	2:AA:792:G:C4	2.72	0.57
2:AA:785:G:N2	2:AA:786:C:N1	2.52	0.57
2:AA:1071:G:C8	2:AA:1071:G:OP2	2.58	0.57
2:AA:1084:A:OP1	9:AI:39:VAL:N	2.36	0.57
2:AA:1152:C:O3'	25:A1:80:ILE:HG21	2.04	0.57
2:AA:1268:A:C4	2:AA:2013:A:C6	2.92	0.57
2:AA:444(A):A:H4'	2:AA:1445:C:O5'	2.04	0.57
2:AA:1456:G:C2	2:AA:1457:A:C8	2.92	0.57
2:AA:1479:G:N2	2:AA:1558:A:OP1	2.32	0.57
2:AA:1657:C:H3'	2:AA:1657:C:C6	2.39	0.57
2:AA:1667:G:O2'	2:AA:1668:A:OP2	2.22	0.57
2:AA:1769:G:O2'	2:AA:1770:G:C5'	2.53	0.57
2:AA:1787:A:C2	2:AA:1788:C:N3	2.72	0.57
2:AA:1793:C:N4	2:AA:1825:A:H61	2.02	0.57
2:AA:1800:C:N4	2:AA:1817:G:N1	2.53	0.57
2:AA:1817:G:H8	2:AA:1817:G:C5'	2.17	0.57
2:AA:1928:A:H8	2:AA:1928:A:H5''	1.69	0.57
2:AA:2219:G:O2'	2:AA:2224:G:H5'	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2228:G:N7	2:AA:2229:C:C4	2.72	0.57
2:AA:2250:G:C5'	15:AP:102:ARG:HD3	2.32	0.57
2:AA:2256:G:H4'	27:A3:5:LYS:HE2	1.86	0.57
2:AA:2265:U:C2'	2:AA:2266:A:OP1	2.52	0.57
2:AA:2265:U:H2'	2:AA:2266:A:OP1	2.03	0.57
2:AA:2348:U:H2'	2:AA:2349:G:O5'	2.04	0.57
2:AA:2389:G:H5''	2:AA:2390:U:C5'	2.34	0.57
2:AA:2563:U:H5''	13:AN:27:GLY:HA2	1.86	0.57
2:AA:2565:A:C2'	2:AA:2566:A:H1'	2.32	0.57
2:AA:2573:C:H5''	2:AA:2574:G:H5''	1.86	0.57
2:AA:2618:G:H2'	2:AA:2619:C:H6	1.69	0.57
2:AA:2640:G:N2	2:AA:2774:C:N3	2.41	0.57
2:AA:2705:A:H2'	2:AA:2706:G:H8	1.68	0.57
2:AA:2889:C:H2'	2:AA:2891:G:H8	1.69	0.57
3:AC:14:VAL:HG23	3:AC:32:LEU:HD21	1.87	0.57
3:AC:59:ARG:C	3:AC:199:HIS:HE2	2.12	0.57
3:AC:100:ILE:HG22	3:AC:126:LYS:CD	2.34	0.57
4:AD:141:HIS:O	4:AD:142:ASN:HB2	2.04	0.57
4:AD:142:ASN:CG	4:AD:190:THR:OG1	2.48	0.57
4:AD:162:GLN:O	4:AD:164:LEU:N	2.36	0.57
4:AD:203:PRO:O	4:AD:209:ASN:ND2	2.37	0.57
6:AF:54:LEU:O	6:AF:79:ARG:NE	2.37	0.57
6:AF:231:ARG:O	6:AF:232:LEU:HG	2.04	0.57
7:AG:56:ARG:CD	7:AG:65:GLU:CB	2.79	0.57
7:AG:58:VAL:HG13	7:AG:61:PHE:CD1	2.39	0.57
7:AG:134:LEU:CD1	7:AG:136:ARG:NH2	2.65	0.57
7:AG:156:ARG:O	7:AG:156:ARG:CG	2.52	0.57
9:AI:1:MET:HB3	11:AL:10:LYS:HZ1	1.67	0.57
9:AI:35:ALA:O	9:AI:39:VAL:CB	2.48	0.57
9:AJ:115:LYS:O	9:AJ:119:GLU:HG3	2.05	0.57
11:AL:116:LEU:HD21	11:AL:127:ILE:CD1	2.30	0.57
12:AM:14:ALA:H	12:AM:40:ASN:ND2	1.99	0.57
14:AO:119:THR:HG22	14:AO:138:GLY:C	2.29	0.57
15:AP:156:ASN:O	15:AP:157:ALA:CB	2.52	0.57
16:AQ:27:LEU:CD1	16:AQ:27:LEU:C	2.78	0.57
16:AQ:92:ALA:O	16:AQ:95:ALA:HB3	2.03	0.57
16:AQ:102:LEU:HG	16:AQ:129:ILE:CD1	2.25	0.57
17:AR:21:PHE:O	17:AR:29:THR:O	2.21	0.57
18:AS:46:PHE:O	18:AS:49:LYS:HB3	2.05	0.57
22:AW:43:PRO:O	22:AW:44:GLY:C	2.44	0.57
22:AW:55:ARG:HD2	22:AW:55:ARG:N	2.12	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:59:ILE:CG2	22:AW:60:GLN:H	2.17	0.57
24:A0:45:ARG:HH11	24:A0:45:ARG:HG2	1.69	0.57
25:A1:55:ARG:CA	25:A1:58:ARG:NE	2.56	0.57
25:A1:76:TYR:O	25:A1:80:ILE:HG13	2.04	0.57
25:A1:95:LEU:O	25:A1:106:PHE:HE1	1.86	0.57
28:A4:48:ARG:O	28:A4:49:PHE:C	2.47	0.57
32:A8:21:LYS:CB	32:A8:48:PHE:HZ	2.03	0.57
33:A9:11:CYS:HB3	33:A9:32:HIS:NE2	2.19	0.57
34:BA:15:G:H4'	40:BH:24:ARG:NH1	2.15	0.57
34:BA:157:G:C2	34:BA:165:C:C4	2.92	0.57
34:BA:187:C:C2	34:BA:188:C:C6	2.93	0.57
34:BA:226:G:O2'	34:BA:227:G:C5'	2.53	0.57
34:BA:243:A:C2	34:BA:245:C:C2	2.93	0.57
34:BA:254:G:H2'	34:BA:255:G:C8	2.35	0.57
34:BA:350:G:H22	34:BA:351:G:N2	2.01	0.57
34:BA:363:A:OP2	47:BO:34:ARG:HB3	2.05	0.57
34:BA:484:G:C8	34:BA:486:U:C4	2.92	0.57
34:BA:692:U:N3	34:BA:695:A:OP2	2.29	0.57
34:BA:750:G:H21	50:BR:23:GLY:C	2.11	0.57
34:BA:771:G:C4	34:BA:772:U:C5	2.92	0.57
34:BA:776:G:N2	34:BA:802:A:OP2	2.37	0.57
34:BA:859:A:C2'	34:BA:860:A:O5'	2.53	0.57
34:BA:1007:C:N3	34:BA:1008:C:C4	2.72	0.57
34:BA:1234:C:N4	34:BA:1235:U:N3	2.53	0.57
34:BA:1268:A:O3'	56:BX:19:GLY:O	2.23	0.57
34:BA:1346:A:C8	34:BA:1348:U:N3	2.72	0.57
34:BA:1347:G:H1'	34:BA:1348:U:C5	2.39	0.57
34:BA:1357:A:N7	34:BA:1358:U:C4	2.72	0.57
34:BA:1399:C:O2	34:BA:1401:G:C5	2.57	0.57
34:BA:1440:C:H2'	34:BA:1441:G:H8	1.69	0.57
34:BA:1461:G:O2'	34:BA:1462:G:C5'	2.52	0.57
34:BA:1530:G:C6	34:BA:1531:A:N6	2.73	0.57
35:BB:65:G:N2	35:BB:66:A:C5	2.73	0.57
35:BB:65:G:N3	35:BB:66:A:C8	2.73	0.57
35:BC:33:U:C6	35:BC:35:A:OP2	2.57	0.57
38:BF:12:LEU:CD1	38:BF:17:ASP:HA	2.34	0.57
38:BF:36:ASP:OD2	38:BF:57:ILE:HG21	2.04	0.57
38:BF:53:ALA:HB2	38:BF:115:LEU:CD2	2.31	0.57
38:BF:113:ALA:HB3	38:BF:114:PRO:HD3	1.87	0.57
40:BH:41:VAL:HG21	40:BH:113:ALA:CB	2.34	0.57
40:BH:75:THR:HA	40:BH:118:ILE:HD11	1.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:94:ALA:H	40:BH:118:ILE:HG23	1.70	0.57
40:BH:107:ARG:HB2	40:BH:107:ARG:CZ	2.34	0.57
40:BH:110:LEU:HB3	40:BH:115:VAL:CG2	2.34	0.57
40:BH:144:THR:HG22	40:BH:145:LYS:N	2.20	0.57
44:BL:22:GLY:O	44:BL:58:ARG:O	2.22	0.57
44:BL:32:ASP:O	44:BL:35:GLU:CB	2.52	0.57
50:BR:81:LEU:HD23	50:BR:81:LEU:C	2.29	0.57
53:BU:51:LEU:O	53:BU:56:THR:HG23	2.04	0.57
54:BV:38:SER:O	54:BV:70:LYS:HA	2.05	0.57
55:BW:55:ILE:C	55:BW:57:ARG:N	2.61	0.57
2:AA:65:C:C2	2:AA:66:C:C5	2.92	0.57
2:AA:130:C:H2'	2:AA:130:C:O2	2.03	0.57
2:AA:181:A:H5'	2:AA:181:A:H8	1.68	0.57
2:AA:270(X):G:C5	2:AA:270(Y):G:H1'	2.39	0.57
2:AA:279:C:P	2:AA:279:C:O4'	2.63	0.57
2:AA:330:A:C4'	2:AA:1210:A:N6	2.68	0.57
2:AA:410:G:N3	2:AA:2407:G:N7	2.52	0.57
2:AA:442:G:C2	6:AF:46:TYR:CZ	2.93	0.57
2:AA:510:C:H2'	2:AA:511:U:H6	1.69	0.57
2:AA:601:C:H2'	2:AA:601:C:O2	2.04	0.57
2:AA:737:C:C2'	2:AA:738:G:H5'	2.35	0.57
2:AA:1022:G:N2	2:AA:1140:C:C6	2.72	0.57
2:AA:1109:C:C5	2:AA:1110:G:N1	2.72	0.57
2:AA:1189:A:O5'	2:AA:1189:A:H8	1.87	0.57
2:AA:1306:C:O2'	2:AA:1307:A:H5'	2.04	0.57
2:AA:1364:G:O4'	2:AA:1368:G:N2	2.38	0.57
2:AA:1365:A:C6	2:AA:1366:A:C6	2.92	0.57
2:AA:1408:C:C2	2:AA:1595:G:C2	2.93	0.57
2:AA:1424:G:H2'	2:AA:1425:G:C5'	2.33	0.57
2:AA:1432:C:H2'	2:AA:1432:C:O2	2.04	0.57
2:AA:1511:A:C2'	2:AA:1512:G:H5''	2.34	0.57
2:AA:1549:C:C2'	2:AA:1550:C:H5'	2.34	0.57
2:AA:1648:C:H2'	2:AA:1649:G:H8	1.68	0.57
2:AA:1689:A:C5	2:AA:1700:A:C6	2.92	0.57
2:AA:1806:C:H2'	2:AA:1807:G:C5'	2.35	0.57
2:AA:1812:A:H2'	2:AA:1813:G:C5'	2.35	0.57
2:AA:1993:U:O2	2:AA:1994:C:O4'	2.23	0.57
2:AA:2119:A:O5'	2:AA:2120:G:H5''	2.03	0.57
2:AA:2134:A:H2	2:AA:2152:G:OP2	1.88	0.57
2:AA:2290:G:C6	2:AA:2291:U:C4	2.92	0.57
2:AA:2317:C:OP2	7:AG:142:ALA:O	2.23	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2346:A:O4'	2:AA:2383:G:H1'	2.04	0.57
2:AA:2424:C:O2	2:AA:2424:C:C2'	2.50	0.57
2:AA:2426:A:OP1	2:AA:2426:A:C8	2.56	0.57
2:AA:2458:G:C4	2:AA:2490:G:C2	2.92	0.57
2:AA:2529:G:OP2	2:AA:2530:A:C8	2.58	0.57
2:AA:2548:G:C2'	2:AA:2549:G:O5'	2.51	0.57
2:AA:2573:C:C5'	2:AA:2574:G:OP1	2.53	0.57
2:AA:2817:G:C2	2:AA:2830:G:C4	2.92	0.57
2:AA:2821:A:C2	2:AA:2822:G:C4	2.93	0.57
2:AA:2882:A:P	24:A0:96:ARG:HB2	2.44	0.57
3:AC:41:VAL:HG22	3:AC:216:THR:HG22	1.86	0.57
3:AC:43:VAL:O	3:AC:172:HIS:HB2	2.05	0.57
3:AC:77:ILE:CD1	3:AC:123:VAL:HG22	2.34	0.57
5:AE:42:ALA:O	5:AE:189:MET:CE	2.52	0.57
5:AE:72:VAL:HA	5:AE:294:THR:O	2.05	0.57
6:AF:83:ALA:H	6:AF:87:ARG:HE	1.46	0.57
8:AH:58:LYS:HA	8:AH:61:ARG:NE	2.19	0.57
8:AH:77:GLY:O	8:AH:79:SER:N	2.36	0.57
8:AH:148:ARG:NH2	8:AH:162:ARG:O	2.37	0.57
9:AJ:13:LEU:HD23	9:AJ:17:GLU:CD	2.29	0.57
9:AJ:109:GLU:O	9:AJ:113:GLU:HG3	2.03	0.57
12:AM:45:VAL:CG1	12:AM:46:ILE:H	2.18	0.57
14:AO:67:ARG:NH2	14:AO:110:GLY:O	2.37	0.57
16:AQ:107:ASN:O	16:AQ:109:PRO:N	2.37	0.57
18:AS:12:ILE:CD1	18:AS:42:ARG:HD3	2.35	0.57
18:AS:30:GLU:N	18:AS:33:ARG:HD2	2.19	0.57
19:AT:6:LYS:HE3	19:AT:29:ASP:N	2.20	0.57
20:AU:41:ARG:HB2	20:AU:111:ARG:O	2.04	0.57
24:A0:54:LEU:HD13	24:A0:54:LEU:H	1.68	0.57
24:A0:96:ARG:CD	24:A0:115:GLU:OE1	2.53	0.57
25:A1:69:ALA:HA	25:A1:79:PHE:HZ	1.66	0.57
25:A1:95:LEU:C	25:A1:106:PHE:HE1	2.13	0.57
25:A1:111:ASP:O	25:A1:112:ALA:C	2.47	0.57
25:A1:115:ASN:C	25:A1:117:ARG:N	2.56	0.57
28:A4:7:PRO:O	28:A4:60:ASN:OD1	2.22	0.57
32:A8:37:SER:HB3	32:A8:40:GLU:OE2	2.03	0.57
34:BA:17:U:O2'	34:BA:1079:G:N3	2.37	0.57
34:BA:36:C:H2'	34:BA:37:U:C6	2.39	0.57
34:BA:54:C:N4	34:BA:357:G:H1	2.02	0.57
34:BA:130:A:HO2'	34:BA:263:A:HO2'	1.46	0.57
34:BA:188:C:H2'	34:BA:189:G:O5'	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:292:G:H3'	34:BA:293:G:H8	1.70	0.57
34:BA:421:U:C6	34:BA:421:U:OP1	2.57	0.57
34:BA:536:C:H2'	34:BA:536:C:O2	2.03	0.57
34:BA:563:A:HO2'	34:BA:566:G:C2'	2.15	0.57
34:BA:668:G:O2'	34:BA:669:U:H5'	2.03	0.57
34:BA:668:G:C1'	50:BR:46:HIS:NE2	2.61	0.57
34:BA:679:C:O2'	34:BA:680:C:H5'	2.05	0.57
34:BA:761:G:H5''	52:BT:102:GLY:C	2.28	0.57
34:BA:775:G:N2	34:BA:776:G:H1'	2.19	0.57
34:BA:865:A:C4	34:BA:866:C:O2	2.57	0.57
34:BA:913:A:O2'	34:BA:914:A:P	2.63	0.57
34:BA:994:A:C2	49:BQ:4:LYS:HB3	2.40	0.57
34:BA:1049:U:H1'	34:BA:1201:A:H8	1.67	0.57
34:BA:1151:A:H4'	45:BM:42:THR:OG1	2.05	0.57
34:BA:1234:C:H5'	34:BA:1364:U:O2'	2.04	0.57
34:BA:1289:A:H3'	34:BA:1289:A:P	2.44	0.57
34:BA:1336:C:H4'	34:BA:1337:G:N3	2.19	0.57
34:BA:1345:U:H5''	34:BA:1346:A:OP1	2.05	0.57
34:BA:1357:A:N6	34:BA:1363:A:C2	2.73	0.57
34:BA:1390:U:C4	34:BA:1391:U:O4	2.58	0.57
35:BB:52:U:H3	35:BB:62:A:H61	1.52	0.57
35:BC:40:C:C2'	35:BC:41:U:C5'	2.78	0.57
37:BE:82:ARG:O	37:BE:86:GLU:HG3	2.05	0.57
37:BE:95:GLN:HG3	37:BE:148:TYR:CD1	2.39	0.57
38:BF:75:VAL:O	38:BF:75:VAL:HG12	2.03	0.57
38:BF:156:ARG:CB	38:BF:196:LEU:HD22	2.34	0.57
38:BF:187:ALA:O	38:BF:198:VAL:HG23	2.04	0.57
39:BG:141:ARG:CB	39:BG:144:ASP:OD2	2.46	0.57
40:BH:87:SER:OG	40:BH:130:ASN:CB	2.51	0.57
42:BJ:143:ARG:O	42:BJ:144:MET:C	2.48	0.57
43:BK:33:GLU:CB	43:BK:59:LEU:HD11	2.33	0.57
43:BK:45:ILE:HG12	43:BK:45:ILE:O	2.03	0.57
44:BL:48:GLU:HA	44:BL:51:ARG:CZ	2.33	0.57
45:BM:49:VAL:HG21	49:BQ:44:LEU:CD2	2.34	0.57
46:BN:80:VAL:HG12	46:BN:81:ASP:O	2.03	0.57
48:BP:15:VAL:HG11	48:BP:39:ILE:HD12	1.86	0.57
49:BQ:26:ARG:HD3	49:BQ:43:CYS:HB2	1.85	0.57
50:BR:40:SER:C	50:BR:44:LYS:HZ1	2.11	0.57
52:BT:83:ASP:C	52:BT:86:GLU:HB2	2.29	0.57
54:BV:5:LEU:CG	54:BV:9:VAL:HG22	2.34	0.57
55:BW:62:LEU:HA	55:BW:65:LYS:HG3	1.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:86:ARG:HG2	55:BW:87:LYS:HG3	1.84	0.57
2:AA:16:G:H4'	29:A5:18:MET:SD	2.44	0.57
2:AA:137(A):G:C8	2:AA:138:G:N1	2.70	0.57
2:AA:200:U:C3'	2:AA:201:C:H5'	2.34	0.57
2:AA:223:A:C6	2:AA:408:G:O4'	2.58	0.57
2:AA:246:C:N4	2:AA:247:G:N1	2.53	0.57
2:AA:356:G:H8	2:AA:356:G:O5'	1.87	0.57
2:AA:480:A:C2'	2:AA:481:G:OP1	2.52	0.57
2:AA:539:G:C2	2:AA:540:G:C5	2.92	0.57
2:AA:580:C:H2'	2:AA:581:C:C5	2.39	0.57
2:AA:604:G:H21	2:AA:657:U:H4'	1.70	0.57
2:AA:604:G:H2'	2:AA:605:C:H6	1.70	0.57
2:AA:641:C:N3	2:AA:647:G:N2	2.53	0.57
2:AA:783:A:H5''	4:AD:230:ASN:HD21	1.68	0.57
2:AA:783:A:C2'	2:AA:784:A:O5'	2.52	0.57
2:AA:800:A:H1'	2:AA:802:A:H5'	1.86	0.57
2:AA:909:A:N1	2:AA:912:C:H1'	2.20	0.57
2:AA:971:C:N4	2:AA:972:G:H21	1.99	0.57
2:AA:989:G:O2'	2:AA:990:A:P	2.62	0.57
2:AA:996:A:C5	2:AA:1160:G:C2	2.93	0.57
2:AA:1063:G:H5'	11:AL:135:MET:SD	2.45	0.57
2:AA:1065:U:H2'	2:AA:1066:U:H5''	1.86	0.57
2:AA:1084:A:P	9:AI:37:VAL:CA	2.92	0.57
2:AA:1162:G:H4'	26:A2:23:GLU:CB	2.34	0.57
2:AA:1444:G:C3'	2:AA:1445:C:H5	2.18	0.57
2:AA:1513:C:H6	2:AA:1513:C:H3'	1.70	0.57
2:AA:1518:C:H3'	2:AA:1519:G:O4'	2.05	0.57
2:AA:1519:G:OP1	2:AA:1519:G:O3'	2.22	0.57
2:AA:1529:A:N7	2:AA:1543:A:H8	2.01	0.57
2:AA:1650:G:C6	2:AA:2008:C:N3	2.73	0.57
2:AA:1769:G:O2'	2:AA:1770:G:O5'	2.22	0.57
2:AA:1819:A:H4'	2:AA:1820:U:O5'	2.03	0.57
2:AA:1823:G:C2'	2:AA:1824:G:O5'	2.52	0.57
2:AA:1913:A:N7	2:AA:1918:A:N1	2.49	0.57
2:AA:1936:A:N3	2:AA:1940:U:C2	2.72	0.57
2:AA:1939:U:OP2	2:AA:1939:U:C3'	2.52	0.57
2:AA:1971:A:C3'	2:AA:1971:A:C8	2.86	0.57
2:AA:2015:A:C8	2:AA:2016:U:C5	2.93	0.57
2:AA:2250:G:N7	15:AP:102:ARG:CA	2.56	0.57
2:AA:2422:A:C2'	2:AA:2424:C:C5	2.88	0.57
2:AA:2483:C:C4	2:AA:2484:G:N7	2.73	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2615:U:C2'	2:AA:2616:C:O5'	2.53	0.57
2:AA:2633:G:C2	2:AA:2634:G:C5	2.93	0.57
2:AA:2699:C:C4	2:AA:2708:G:N1	2.69	0.57
2:AA:2815:C:O2	2:AA:2816:C:C6	2.57	0.57
3:AC:59:ARG:HG3	3:AC:139:ASN:HD21	1.69	0.57
3:AC:74:VAL:HG21	3:AC:156:ILE:HD12	1.86	0.57
3:AC:104:LEU:HD13	3:AC:126:LYS:HZ2	1.69	0.57
4:AD:68:ARG:HH21	4:AD:190:THR:CG2	2.18	0.57
6:AF:196:THR:HB	6:AF:200:PRO:HA	1.85	0.57
6:AF:225:PRO:O	6:AF:231:ARG:CG	2.48	0.57
8:AH:82:TYR:CE1	8:AH:137:LYS:HG3	2.39	0.57
11:AL:18:ALA:HB3	11:AL:43:ASN:HD21	1.66	0.57
12:AM:14:ALA:HB1	12:AM:17:CYS:SG	2.44	0.57
12:AM:54:VAL:CB	12:AM:135:ILE:HD12	2.35	0.57
13:AN:87:ILE:CG2	13:AN:92:SER:H	2.15	0.57
15:AP:20:ILE:HG13	15:AP:21:SER:N	2.10	0.57
15:AP:69:ASN:C	15:AP:69:ASN:HD22	2.12	0.57
18:AS:88:ARG:HA	18:AS:93:ALA:N	2.18	0.57
20:AU:15:PRO:HD2	20:AU:18:GLU:OE2	2.04	0.57
20:AU:27:LEU:HB3	20:AU:98:VAL:HB	1.85	0.57
21:AV:13:LYS:O	21:AV:15:ASP:N	2.38	0.57
21:AV:19:ILE:HG23	21:AV:80:HIS:H	1.69	0.57
22:AW:20:LEU:HD13	22:AW:23:LEU:HB2	1.87	0.57
25:A1:37:GLN:C	25:A1:39:LEU:N	2.61	0.57
27:A3:2:ALA:C	27:A3:3:HIS:ND1	2.63	0.57
34:BA:29:G:C5'	34:BA:296:U:OP1	2.53	0.57
34:BA:101:A:C4	34:BA:102:G:C8	2.92	0.57
34:BA:103:C:H1'	34:BA:151:A:C2	2.40	0.57
34:BA:112:G:H4'	34:BA:389:A:H5''	1.87	0.57
34:BA:132:C:C6	34:BA:133:U:C5	2.92	0.57
34:BA:225:C:N3	34:BA:226:G:C8	2.72	0.57
34:BA:253:U:OP2	52:BT:67:LYS:HE3	2.05	0.57
34:BA:421:U:H5''	34:BA:422:C:C5	2.36	0.57
34:BA:432:A:N7	34:BA:433:C:C4	2.72	0.57
34:BA:695:A:C2	34:BA:787:A:H4'	2.39	0.57
34:BA:748:C:O2'	34:BA:749:C:O4'	2.22	0.57
34:BA:775:G:O2'	34:BA:776:G:C5'	2.52	0.57
34:BA:985:C:H42	34:BA:1220:G:H1	0.69	0.57
34:BA:988:G:C6	34:BA:989:C:N3	2.72	0.57
34:BA:1087:G:N2	34:BA:1099:G:H1'	2.18	0.57
34:BA:1095:U:H2'	34:BA:1096:C:O4'	2.05	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1236:A:H5''	56:BX:2:GLY:N	2.20	0.57
34:BA:1269:A:N6	34:BA:1312:G:HO2'	1.98	0.57
34:BA:1352:C:C4	34:BA:1371:G:C6	2.92	0.57
34:BA:1487:G:O2'	34:BA:1488:G:H5'	2.04	0.57
37:BE:25:ASN:HD21	37:BE:27:LYS:CG	2.17	0.57
37:BE:48:MET:O	37:BE:49:GLU:C	2.47	0.57
37:BE:97:TRP:CH2	37:BE:173:ALA:HA	2.40	0.57
39:BG:4:TYR:O	39:BG:5:ILE:HB	2.03	0.57
39:BG:93:PHE:CZ	39:BG:97:LEU:HD11	2.39	0.57
39:BG:133:VAL:HG11	39:BG:138:TYR:CD1	2.40	0.57
39:BG:159:ARG:O	39:BG:160:GLN:C	2.46	0.57
40:BH:31:LEU:HD23	40:BH:32:VAL:N	2.20	0.57
42:BJ:71:PRO:HG2	42:BJ:96:GLN:HA	1.87	0.57
43:BK:51:VAL:HG12	43:BK:52:ASP:N	2.20	0.57
44:BL:28:VAL:N	44:BL:31:GLN:O	2.31	0.57
45:BM:78:ASN:N	45:BM:78:ASN:ND2	2.52	0.57
45:BM:94:VAL:HG12	45:BM:95:GLU:N	2.08	0.57
47:BO:28:LYS:C	47:BO:30:ALA:H	2.11	0.57
47:BO:41:ARG:CG	47:BO:42:THR:H	1.98	0.57
48:BP:14:ARG:N	48:BP:44:ARG:CD	2.67	0.57
55:BW:51:GLU:O	55:BW:54:LYS:HB2	2.04	0.57
1:AB:40:U:C3'	1:AB:41:U:H5'	2.35	0.57
2:AA:106:C:C2'	2:AA:107:C:C5'	2.81	0.57
2:AA:245:G:OP1	14:AO:53:ARG:HB2	2.04	0.57
2:AA:270(A):A:C5	2:AA:270(X):G:N2	2.73	0.57
2:AA:278:A:H3'	2:AA:278:A:C8	2.39	0.57
2:AA:297:C:N3	2:AA:342:G:N2	2.52	0.57
2:AA:451:C:OP1	6:AF:49:ASP:HB2	2.03	0.57
2:AA:468:G:H2'	2:AA:469:G:C5'	2.35	0.57
2:AA:492:A:H2'	2:AA:493:G:O5'	2.04	0.57
2:AA:494:G:C4'	18:AS:6:ILE:O	2.53	0.57
2:AA:522:G:O2'	2:AA:523:C:H5'	2.04	0.57
2:AA:533:G:H1'	2:AA:561:G:N2	2.20	0.57
2:AA:536:A:P	2:AA:994:C:H42	2.28	0.57
2:AA:608:A:H2'	2:AA:609:A:C5'	2.34	0.57
2:AA:674:G:H5''	6:AF:69:HIS:HA	1.86	0.57
2:AA:693:C:H2'	2:AA:694:U:H6	1.70	0.57
2:AA:853:G:N1	2:AA:924:C:N4	2.52	0.57
2:AA:870:A:N1	2:AA:907:U:C2	2.73	0.57
2:AA:933:A:H2'	2:AA:934:G:C5'	2.35	0.57
2:AA:973:A:C8	26:A2:80:TYR:HD2	2.22	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1056:G:N2	2:AA:1104:C:N4	2.53	0.57
2:AA:1097:U:H2'	2:AA:1098:A:O5'	2.04	0.57
2:AA:142(A):A:C6	2:AA:1143:A:N7	2.73	0.57
2:AA:1202:C:H1'	2:AA:1244:G:N2	2.20	0.57
2:AA:1263:U:C4'	29:A5:16:ARG:CZ	2.74	0.57
2:AA:1356:G:H1	2:AA:1375:C:N4	2.03	0.57
2:AA:1406:U:HO2'	2:AA:1407:C:P	2.26	0.57
2:AA:1449:A:C2	2:AA:449(A):G:N9	2.73	0.57
2:AA:1525:G:H2'	2:AA:1526:G:O5'	2.05	0.57
2:AA:1582:C:O3'	2:AA:1583:A:H4'	2.04	0.57
2:AA:1675:C:C5	5:AE:225:LYS:CG	2.88	0.57
2:AA:1717:G:C6	2:AA:1742:C:C2	2.92	0.57
2:AA:1789:A:C4	2:AA:1790:C:H6	2.23	0.57
2:AA:1812:A:H2'	2:AA:1813:G:O4'	2.05	0.57
2:AA:1814:G:H2'	2:AA:1815:A:C8	2.40	0.57
2:AA:1826:G:OP1	4:AD:227:VAL:CG2	2.52	0.57
2:AA:1842:G:C5	2:AA:1843:C:C5	2.93	0.57
2:AA:1917:U:H5	2:AA:1918:A:C4	2.23	0.57
2:AA:1947:C:C2	2:AA:1948:G:C8	2.92	0.57
2:AA:2003:G:C6	2:AA:2004:G:C6	2.93	0.57
2:AA:2051:A:C5	2:AA:2614:A:N6	2.72	0.57
2:AA:2259:G:N2	2:AA:2282:G:C4	2.72	0.57
2:AA:2278:A:H4'	15:AP:19:TYR:HB3	1.87	0.57
2:AA:2305:A:C2	7:AG:72:LYS:CE	2.87	0.57
2:AA:2582:G:H5'	2:AA:2582:G:H8	1.70	0.57
2:AA:2641:G:C6	2:AA:2774:C:C4	2.93	0.57
2:AA:2684:U:O4'	13:AN:76:TYR:OH	2.23	0.57
2:AA:2777:G:C8	2:AA:2777:G:O5'	2.58	0.57
2:AA:2817:G:C2	2:AA:2830:G:C5	2.91	0.57
2:AA:2819:G:H3'	2:AA:2821:A:N6	2.09	0.57
2:AA:2892:A:H3'	2:AA:2893:G:C8	2.39	0.57
6:AF:103:ASN:HB3	6:AF:106:GLU:HG3	1.86	0.57
6:AF:200:PRO:CB	6:AF:205:ARG:HD3	2.35	0.57
6:AF:218:VAL:C	6:AF:219:ASN:CG	2.72	0.57
7:AG:45:THR:HG22	7:AG:83:PHE:CZ	2.38	0.57
7:AG:51:ARG:NH1	7:AG:72:LYS:HB2	2.08	0.57
8:AH:7:PRO:HA	8:AH:50:THR:OG1	2.03	0.57
10:AK:10:LYS:CG	10:AK:11:GLY:N	2.65	0.57
10:AK:37:ILE:HG23	10:AK:38:GLU:H	1.69	0.57
10:AK:70:GLU:CD	10:AK:70:GLU:C	2.73	0.57
11:AL:28:LEU:HB3	11:AL:33:VAL:CB	2.35	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:33:VAL:HG22	11:AL:60:VAL:HG11	1.86	0.57
12:AM:15:ARG:HG3	12:AM:40:ASN:ND2	2.20	0.57
12:AM:140:GLY:O	12:AM:141:ALA:C	2.46	0.57
13:AN:103:ALA:HB3	13:AN:105:GLU:CG	2.34	0.57
14:AO:94:ARG:O	14:AO:120:LEU:HD13	2.05	0.57
14:AO:142:LEU:O	14:AO:145:LEU:HD12	2.05	0.57
15:AP:15:THR:O	15:AP:16:ARG:CG	2.53	0.57
15:AP:93:ILE:HG13	15:AP:110:GLY:HA3	1.86	0.57
16:AQ:115:VAL:HG12	16:AQ:119:GLN:CD	2.29	0.57
18:AS:55:ALA:CB	18:AS:107:LEU:HD11	2.34	0.57
19:AT:44:GLN:NE2	19:AT:44:GLN:O	2.37	0.57
20:AU:61:GLU:HB2	20:AU:75:GLU:CD	2.29	0.57
21:AV:148:THR:CG2	21:AV:168:VAL:H	2.07	0.57
23:AX:3:ARG:HB2	23:AX:59:VAL:O	2.03	0.57
24:A0:37:THR:O	24:A0:38:VAL:C	2.48	0.57
24:A0:48:VAL:O	24:A0:51:LEU:HB2	2.04	0.57
32:A8:60:LEU:HD23	32:A8:60:LEU:O	2.04	0.57
34:BA:16:A:H2	34:BA:17:U:O4'	1.87	0.57
34:BA:19:C:H1'	34:BA:864:A:C2	2.40	0.57
34:BA:22:G:O4'	34:BA:885:G:H1'	2.05	0.57
34:BA:132:C:O2'	34:BA:133:U:H6	1.87	0.57
34:BA:160:A:H1'	34:BA:344:A:N7	2.19	0.57
34:BA:442:C:N3	34:BA:443:C:C5	2.72	0.57
34:BA:520:A:OP2	47:BO:51:ALA:HB1	2.04	0.57
34:BA:660:G:H2'	34:BA:661:G:C8	2.36	0.57
34:BA:766:A:C5	34:BA:814:A:C2	2.92	0.57
34:BA:803:G:C6	34:BA:804:U:N3	2.73	0.57
34:BA:819:A:C2	34:BA:1529:G:C5	2.93	0.57
34:BA:907:A:H3'	34:BA:908:A:C8	2.39	0.57
34:BA:932:C:H42	34:BA:1385:G:H1	1.52	0.57
34:BA:1073:U:C2	34:BA:1074:G:N7	2.73	0.57
34:BA:1076:C:OP1	37:BE:179:LYS:NZ	2.37	0.57
34:BA:1077:G:N2	34:BA:1079:G:C3'	2.66	0.57
34:BA:1186:G:C2	34:BA:1187:G:C8	2.93	0.57
35:BB:40:C:O2'	48:BP:120:LYS:HE3	2.05	0.57
35:BB:49:C:C4	35:BB:50:U:C4	2.92	0.57
35:BC:63:C:O2'	35:BC:64:A:O4'	2.21	0.57
36:B1:17:G:H2'	36:B1:18:U:H5	1.67	0.57
37:BE:97:TRP:HE1	37:BE:102:LEU:HD11	1.70	0.57
37:BE:219:VAL:C	37:BE:222:ILE:HG23	2.29	0.57
39:BG:75:PHE:CE1	39:BG:93:PHE:CZ	2.92	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BI:31:GLU:O	41:BI:32:ASN:C	2.47	0.57
42:BJ:47:CYS:O	42:BJ:50:ILE:HB	2.04	0.57
43:BK:93:VAL:CG1	43:BK:133:LEU:HD12	2.34	0.57
43:BK:95:VAL:CG1	43:BK:133:LEU:HD11	2.34	0.57
44:BL:62:TYR:C	44:BL:63:ILE:CD1	2.75	0.57
44:BL:72:GLY:HA2	44:BL:75:ASP:OD1	2.04	0.57
45:BM:42:THR:HG23	45:BM:67:THR:O	2.05	0.57
46:BN:13:GLN:N	46:BN:75:TYR:HB3	2.20	0.57
46:BN:73:MET:SD	46:BN:103:LEU:CD2	2.81	0.57
47:BO:87:GLY:HA2	47:BO:98:TYR:HA	1.87	0.57
48:BP:54:VAL:O	48:BP:58:GLU:HG3	2.05	0.57
50:BR:39:LEU:CD2	50:BR:56:LEU:HD13	2.33	0.57
52:BT:27:PHE:O	52:BT:36:ILE:CD1	2.52	0.57
53:BU:34:TYR:CD1	53:BU:35:ARG:HG3	2.40	0.57
53:BU:34:TYR:CD1	53:BU:35:ARG:N	2.73	0.57
55:BW:42:GLN:HE21	55:BW:42:GLN:CA	2.16	0.57
55:BW:46:GLU:CB	55:BW:48:LYS:HE2	2.35	0.57
56:BX:23:PRO:HB2	56:BX:25:LYS:O	2.04	0.57
1:AB:57:A:C1'	7:AG:13:MET:SD	2.93	0.57
2:AA:127:A:H5''	2:AA:128:C:C6	2.40	0.57
2:AA:146:G:H2'	2:AA:147:U:C5'	2.35	0.57
2:AA:181:A:H3'	2:AA:181:A:OP2	2.04	0.57
2:AA:197:A:H5''	2:AA:2068:U:C4	2.40	0.57
2:AA:246:C:O2'	2:AA:385:C:C5'	2.52	0.57
2:AA:408:G:HO2'	2:AA:409:C:H5'	1.69	0.57
2:AA:588:U:C6	2:AA:589:C:H5	2.22	0.57
2:AA:604:G:N2	2:AA:657:U:H4'	2.20	0.57
2:AA:639:U:O2	2:AA:649:G:N2	2.36	0.57
2:AA:675:A:O2'	2:AA:676:A:C5'	2.43	0.57
2:AA:742:G:C2'	2:AA:743:G:O5'	2.52	0.57
2:AA:969:U:C2	2:AA:970:C:C5	2.92	0.57
2:AA:991:C:O2'	2:AA:992:C:H5'	2.05	0.57
2:AA:1124:C:H3'	2:AA:1125:G:C8	2.39	0.57
2:AA:1198:U:H2'	2:AA:1199:U:H6	1.69	0.57
2:AA:1198:U:O2	2:AA:1199:U:C5	2.58	0.57
2:AA:1202:C:C4	2:AA:1243:G:C2	2.92	0.57
2:AA:1215:G:O3'	25:A1:8:ILE:CG2	2.52	0.57
2:AA:1270:C:O2	2:AA:1325:G:N7	2.38	0.57
2:AA:1529:A:N7	2:AA:1542:G:O6	2.37	0.57
2:AA:1615:C:C5	2:AA:1617:C:C6	2.93	0.57
2:AA:1726:G:O6	2:AA:1727:U:C2	2.58	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1734:C:O2'	2:AA:1735:C:H5'	2.05	0.57
2:AA:1741:C:O2	2:AA:1742:C:O4'	2.23	0.57
2:AA:1794:U:H4'	2:AA:1900:A:C5	2.39	0.57
2:AA:1930:G:C2	2:AA:1968:G:N7	2.73	0.57
2:AA:2033:A:O2'	2:AA:2034:U:P	2.62	0.57
2:AA:2051:A:C8	2:AA:2051:A:OP2	2.57	0.57
2:AA:2096:U:C2	2:AA:2097:C:H5	2.22	0.57
2:AA:2123:G:N2	3:AC:217:THR:HG23	2.20	0.57
2:AA:2409:G:N2	2:AA:2410:G:H1'	2.20	0.57
2:AA:2532:G:N2	2:AA:2662:A:H61	2.02	0.57
2:AA:2561:A:HO2'	13:AN:40:VAL:HG11	1.67	0.57
2:AA:2582:G:HO2'	2:AA:2583:G:H5'	1.69	0.57
2:AA:2680:C:P	5:AE:206:LYS:HD2	2.44	0.57
2:AA:2690:C:C2'	2:AA:2691:C:OP2	2.52	0.57
2:AA:2738:A:N6	2:AA:2767:C:H42	2.02	0.57
2:AA:2822:G:OP1	5:AE:207:GLY:C	2.48	0.57
2:AA:2882:A:C2'	2:AA:2883:A:O5'	2.52	0.57
2:AA:2887:U:O2'	2:AA:2888:C:H5'	2.04	0.57
3:AC:41:VAL:HG22	3:AC:216:THR:CG2	2.34	0.57
3:AC:68:LEU:CG	3:AC:72:VAL:HG21	2.34	0.57
3:AC:100:ILE:O	3:AC:127:LEU:HD21	2.05	0.57
5:AE:41:PHE:C	5:AE:311:PHE:CE1	2.83	0.57
5:AE:72:VAL:HG13	5:AE:295:LEU:HD21	1.85	0.57
5:AE:80:ALA:H	5:AE:185:GLY:C	2.13	0.57
5:AE:315:VAL:CG1	5:AE:316:ARG:N	2.60	0.57
9:AI:42:ALA:HB3	9:AI:43:PRO:CD	2.34	0.57
9:AJ:17:GLU:O	9:AJ:21:LEU:HB2	2.05	0.57
9:AJ:118:LEU:HB2	9:AJ:125:VAL:CG2	2.35	0.57
10:AK:3:VAL:CG2	10:AK:21:VAL:H	2.17	0.57
11:AL:8:GLN:C	11:AL:9:ILE:HG13	2.29	0.57
11:AL:45:GLU:CD	11:AL:70:ILE:HD12	2.30	0.57
13:AN:7:ARG:C	13:AN:8:LEU:CD2	2.77	0.57
13:AN:66:LYS:NZ	13:AN:82:ASN:ND2	2.48	0.57
15:AP:48:ASN:ND2	15:AP:122:PHE:CA	2.68	0.57
15:AP:127:ASN:CB	15:AP:128:PRO:CD	2.72	0.57
15:AP:142:LYS:HE3	15:AP:142:LYS:C	2.28	0.57
16:AQ:36:ALA:CB	16:AQ:118:ILE:HD13	2.34	0.57
17:AR:54:THR:C	17:AR:56:ARG:N	2.59	0.57
18:AS:15:ARG:O	18:AS:18:ARG:HB2	2.05	0.57
18:AS:40:ASN:CG	18:AS:41:LYS:H	2.02	0.57
18:AS:45:TYR:CD2	18:AS:46:PHE:N	2.73	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:23:LYS:C	19:AT:24:LEU:HG	2.29	0.57
19:AT:23:LYS:HA	19:AT:66:VAL:O	2.04	0.57
20:AU:9:LYS:HE3	20:AU:13:ARG:NH1	2.19	0.57
20:AU:19:ARG:CA	20:AU:21:LYS:HZ3	2.17	0.57
22:AW:27:LEU:HD11	22:AW:49:LEU:HB3	1.87	0.57
27:A3:46:LYS:HZ1	27:A3:81:ILE:HD11	1.68	0.57
27:A3:61:ALA:CB	27:A3:80:SER:HA	2.35	0.57
29:A5:34:PRO:CD	29:A5:35:GLN:N	2.67	0.57
34:BA:110:C:H3'	34:BA:111:G:H8	1.70	0.57
34:BA:133:U:O4	34:BA:229:U:O4	2.23	0.57
34:BA:152:A:OP2	34:BA:153:C:N4	2.33	0.57
34:BA:189:G:H2'	34:BA:190:C:C6	2.39	0.57
34:BA:329:A:C6	34:BA:332:G:C2	2.93	0.57
34:BA:447:G:N2	34:BA:487:A:H62	2.03	0.57
34:BA:498:U:O2	34:BA:499:A:C8	2.58	0.57
34:BA:522:C:H5''	47:BO:120:TYR:OH	2.05	0.57
34:BA:685:G:H4'	46:BN:40:ILE:O	2.04	0.57
34:BA:724:G:N2	34:BA:725:G:H1'	2.20	0.57
34:BA:888:G:H3'	34:BA:889:A:C8	2.40	0.57
34:BA:956:U:OP2	34:BA:956:U:C6	2.58	0.57
34:BA:1128:C:O2	34:BA:1146:A:N6	2.37	0.57
34:BA:1128:C:C4	34:BA:1139:G:N1	2.72	0.57
34:BA:1278:U:H5''	34:BA:1279:A:C5'	2.34	0.57
34:BA:1400:C:C6	34:BA:1400:C:OP1	2.58	0.57
34:BA:1413:A:H61	34:BA:1487:G:H1	1.53	0.57
35:BB:11:C:C2	35:BB:12:U:C6	2.92	0.57
35:BB:62:A:HO2'	35:BB:63:C:H5'	1.67	0.57
35:BC:25:C:H2'	35:BC:26:G:O4'	2.04	0.57
37:BE:118:LEU:HD11	37:BE:145:LEU:HG	1.82	0.57
38:BF:15:THR:CB	38:BF:181:ASN:OD1	2.51	0.57
38:BF:60:ALA:HB3	45:BM:92:THR:OG1	2.04	0.57
38:BF:159:GLY:HA2	38:BF:193:TYR:CD1	2.40	0.57
39:BG:61:LYS:HA	39:BG:203:VAL:CG2	2.34	0.57
39:BG:177:ASP:OD1	39:BG:182:LYS:HG3	2.05	0.57
43:BK:116:LYS:HB3	43:BK:119:LEU:HD11	1.87	0.57
44:BL:38:GLN:O	44:BL:40:LEU:N	2.37	0.57
53:BU:74:ARG:N	53:BU:74:ARG:HD2	2.16	0.57
54:BV:63:THR:HB	54:BV:66:MET:HE3	1.87	0.57
55:BW:53:LEU:O	55:BW:56:MET:CB	2.48	0.57
1:AB:54:G:C4	1:AB:55:U:C5	2.92	0.57
1:AB:58:A:N6	1:AB:59:A:N6	2.53	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:65:C:H2'	1:AB:66:A:H5'	1.87	0.57
2:AA:137(A):G:C5	2:AA:142:G:N2	2.66	0.57
2:AA:154:G:H3'	2:AA:155:C:H6	1.70	0.57
2:AA:251:A:H2'	2:AA:252:G:C4'	2.35	0.57
2:AA:270(V):G:C6	2:AA:270(W):G:N7	2.73	0.57
2:AA:463:G:N2	2:AA:467:G:N9	2.53	0.57
2:AA:479:A:H1'	2:AA:480:A:C8	2.39	0.57
2:AA:528:A:H2	2:AA:2043:C:C4'	2.17	0.57
2:AA:612:G:C4'	2:AA:616:A:N1	2.68	0.57
2:AA:745:G:O2'	2:AA:746:A:H5'	2.05	0.57
2:AA:782:A:H4'	2:AA:783:A:C5	2.40	0.57
2:AA:830:G:C5	2:AA:2448:A:C8	2.93	0.57
2:AA:1021:A:C2	2:AA:1023:U:C1'	2.84	0.57
2:AA:1058:G:N1	2:AA:1081:U:C2	2.73	0.57
2:AA:1120:G:C5	2:AA:1121:C:C5	2.93	0.57
2:AA:1142:U:H6	2:AA:142(A):A:C5'	2.03	0.57
2:AA:1144:G:C5	2:AA:1145:C:C5	2.93	0.57
2:AA:1180:C:O2'	2:AA:1181:C:O5'	2.23	0.57
2:AA:1344:G:C2'	2:AA:1345:C:OP1	2.51	0.57
2:AA:1532:C:OP2	2:AA:1533:C:H5	1.88	0.57
2:AA:1629:U:O2'	2:AA:2698:U:OP1	2.17	0.57
2:AA:1771:C:C2	2:AA:1772:G:C8	2.93	0.57
2:AA:1840:G:N2	2:AA:1841:U:H1'	2.19	0.57
2:AA:1930:G:N9	2:AA:1968:G:O6	2.38	0.57
2:AA:2042:A:H62	12:AM:90:LYS:NZ	2.03	0.57
2:AA:2047:U:O2	2:AA:2048:G:N7	2.38	0.57
2:AA:2225:A:C5'	2:AA:2226:C:H5'	2.19	0.57
2:AA:2331:G:H2'	2:AA:2332:U:C1'	2.35	0.57
2:AA:2373:G:O2'	2:AA:2374:C:O5'	2.22	0.57
2:AA:2554:U:H6	2:AA:2554:U:H3'	1.69	0.57
2:AA:2572:A:H5''	2:AA:2574:G:H5'	1.86	0.57
2:AA:2618:G:O2'	2:AA:2619:C:H5'	2.04	0.57
2:AA:2850:A:H62	2:AA:2866:U:H3	1.53	0.57
3:AC:14:VAL:CG2	3:AC:32:LEU:HD11	2.34	0.57
3:AC:70:LYS:CG	3:AC:157:LYS:NZ	2.64	0.57
3:AC:89:ALA:HA	3:AC:154:ARG:CZ	2.35	0.57
3:AC:131:LEU:HB2	3:AC:137:LEU:CD2	2.34	0.57
4:AD:76:ARG:NH1	4:AD:113:MET:HB2	2.06	0.57
4:AD:173:VAL:O	4:AD:175:LEU:HD23	2.05	0.57
4:AD:208:GLY:CA	4:AD:211:HIS:NE2	2.68	0.57
4:AD:210:LYS:HE2	4:AD:211:HIS:CD2	2.40	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:94:ARG:HB3	5:AE:95:PRO:HD2	1.85	0.57
6:AF:16:VAL:HG12	6:AF:17:ASP:H	1.70	0.57
7:AG:14:ARG:HA	7:AG:137:PRO:CG	2.35	0.57
9:AJ:103:LYS:HD3	9:AJ:114:ILE:CG1	2.34	0.57
10:AK:76:THR:CB	10:AK:142:LYS:HE2	2.35	0.57
10:AK:88:ARG:HB3	10:AK:122:ARG:CD	2.34	0.57
12:AM:68:GLY:O	12:AM:69:TYR:HB2	2.05	0.57
13:AN:60:ALA:CB	13:AN:85:VAL:O	2.44	0.57
14:AO:131:GLU:HA	14:AO:134:GLU:OE1	2.05	0.57
16:AQ:12:ARG:HD2	16:AQ:20:TYR:CZ	2.39	0.57
18:AS:56:ALA:O	18:AS:60:ASN:ND2	2.38	0.57
18:AS:67:ASP:OD1	18:AS:67:ASP:C	2.47	0.57
19:AT:42:GLU:OE1	19:AT:49:VAL:CG2	2.53	0.57
21:AV:18:MET:HG3	21:AV:35:ASP:CB	2.33	0.57
22:AW:20:LEU:O	22:AW:21:ASP:C	2.46	0.57
25:A1:17:VAL:HG13	25:A1:39:LEU:HD12	1.85	0.57
27:A3:31:VAL:CG1	27:A3:32:LYS:N	2.67	0.57
28:A4:41:PRO:HB3	28:A4:59:PHE:CE1	2.37	0.57
28:A4:46:GLU:O	28:A4:47:GLU:HG3	2.05	0.57
32:A8:20:GLY:O	32:A8:57:ARG:CZ	2.52	0.57
34:BA:392:G:C5'	51:BS:12:LYS:NZ	2.68	0.57
34:BA:501:C:O2'	34:BA:549:C:O2	2.17	0.57
34:BA:719:C:O2	53:BU:50:ILE:CG1	2.53	0.57
34:BA:897:C:H2'	34:BA:898:G:C8	2.40	0.57
34:BA:925:G:C6	34:BA:1392:G:C6	2.93	0.57
34:BA:937:A:H1'	34:BA:1379:G:C2	2.39	0.57
34:BA:944:G:H21	34:BA:1339:A:N6	1.89	0.57
34:BA:951:G:N2	34:BA:952:U:H1'	2.20	0.57
34:BA:964:A:N6	34:BA:965:A:N6	2.52	0.57
34:BA:988:G:C6	34:BA:989:C:C2	2.92	0.57
34:BA:1080:A:C8	34:BA:1081:G:C1'	2.88	0.57
34:BA:1125:U:H2'	34:BA:1126:U:OP2	2.04	0.57
34:BA:1256:A:H61	34:BA:1278:U:C2'	2.18	0.57
34:BA:1260:C:O2'	34:BA:1283:G:H4'	2.03	0.57
34:BA:1326:C:O3'	56:BX:19:GLY:HA3	2.05	0.57
34:BA:1366:C:OP2	44:BL:117:HIS:NE2	2.37	0.57
34:BA:1374:A:C4	34:BA:1375:A:C8	2.92	0.57
34:BA:1480:G:H2'	34:BA:1481:U:O5'	2.04	0.57
34:BA:1494:G:C4	34:BA:1495:U:H5	2.22	0.57
35:BB:23:A:C2	35:BB:24:G:C4	2.93	0.57
35:BB:60:C:C4'	35:BB:61:C:OP2	2.53	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:44:A:C6	35:BC:45:G:C2	2.93	0.57
36:B1:59:A:OP2	36:B1:59:A:C4'	2.53	0.57
37:BE:45:GLN:N	37:BE:45:GLN:OE1	2.36	0.57
37:BE:130:ARG:HB3	37:BE:134:GLU:HG3	1.85	0.57
37:BE:145:LEU:HD12	37:BE:149:LEU:CD1	2.35	0.57
38:BF:10:PHE:HZ	38:BF:178:LEU:HA	1.66	0.57
38:BF:47:LEU:HD13	38:BF:83:ARG:NH2	2.20	0.57
38:BF:94:LEU:O	38:BF:94:LEU:HD23	2.04	0.57
38:BF:157:ILE:HD12	38:BF:164:ARG:CG	2.33	0.57
38:BF:159:GLY:O	38:BF:160:ALA:O	2.22	0.57
38:BF:160:ALA:O	38:BF:161:GLU:C	2.46	0.57
40:BH:109:ILE:HD12	40:BH:135:THR:HG22	1.85	0.57
42:BJ:68:ASN:HB3	42:BJ:135:VAL:HG22	1.86	0.57
42:BJ:70:LYS:HB3	42:BJ:96:GLN:HG2	1.86	0.57
45:BM:24:VAL:HG22	45:BM:34:VAL:HG11	1.87	0.57
47:BO:84:LEU:CA	47:BO:104:VAL:HG11	2.35	0.57
49:BQ:36:PHE:CD1	49:BQ:36:PHE:C	2.82	0.57
53:BU:46:GLU:OE2	53:BU:46:GLU:N	2.37	0.57
53:BU:72:ARG:O	53:BU:76:LEU:HD23	2.05	0.57
1:AB:15:A:P	1:AB:15:A:O4'	2.63	0.57
1:AB:89:G:H2'	1:AB:89(A):A:C5	2.39	0.57
1:AB:96:G:C6	1:AB:97:G:N7	2.72	0.57
1:AB:104:A:H2'	1:AB:105:G:H5'	1.87	0.57
2:AA:71:A:O2'	2:AA:72:U:P	2.62	0.57
2:AA:193:U:H5''	2:AA:803:U:H1'	1.86	0.57
2:AA:278:A:H3'	2:AA:278:A:H8	1.70	0.57
2:AA:290:G:H22	2:AA:350:U:C1'	2.17	0.57
2:AA:301:G:C8	2:AA:317:G:C2	2.93	0.57
2:AA:307:G:H22	2:AA:310:A:C4'	2.17	0.57
2:AA:503:A:H8	2:AA:503:A:OP2	1.88	0.57
2:AA:595:C:O2'	2:AA:596:G:H5'	2.04	0.57
2:AA:617:G:P	6:AF:221:GLU:CD	2.88	0.57
2:AA:675:A:H2'	2:AA:676:A:N3	2.19	0.57
2:AA:901:A:C6	2:AA:902:C:C4	2.92	0.57
2:AA:1012:U:O2	12:AM:21:ARG:CZ	2.53	0.57
2:AA:1037:G:H22	2:AA:1119:C:H1'	1.70	0.57
2:AA:1102:C:H2'	2:AA:1102:C:O2	2.04	0.57
2:AA:1364:G:P	28:A4:3:LYS:HG2	2.44	0.57
2:AA:1465:G:C4	2:AA:1466:G:C8	2.93	0.57
2:AA:1585:C:H5''	2:AA:1586:A:OP1	2.05	0.57
2:AA:1653:G:C5'	2:AA:1653:G:C8	2.88	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1743:G:H2'	2:AA:1746:G:H5'	1.87	0.57
2:AA:1770:G:C4	2:AA:1771:C:C5	2.93	0.57
2:AA:1826:G:OP1	4:AD:227:VAL:HG22	2.04	0.57
2:AA:1848:A:C2	34:BA:702:A:C6	2.93	0.57
2:AA:2021:C:C5	25:A1:25:TRP:CZ2	2.93	0.57
2:AA:2047:U:C2'	2:AA:2048:G:O5'	2.53	0.57
2:AA:2078:C:H4'	2:AA:2434:A:H5'	1.86	0.57
2:AA:2125:G:C5'	3:AC:130:ILE:HG13	2.35	0.57
2:AA:2127:G:N7	2:AA:2174:C:C6	2.72	0.57
2:AA:2186:G:C2	2:AA:2187:G:O6	2.58	0.57
2:AA:2251:G:OP1	15:AP:102:ARG:CD	2.52	0.57
2:AA:2362:G:OP1	32:A8:29:LYS:CE	2.52	0.57
2:AA:2472:G:O6	2:AA:2476:A:H4'	2.04	0.57
2:AA:2654:A:N6	2:AA:2667:C:H42	2.03	0.57
2:AA:2824:C:N4	2:AA:2825:C:C2	2.73	0.57
2:AA:2879:C:C5'	2:AA:2880:C:OP1	2.51	0.57
3:AC:193:ILE:HD13	3:AC:226:PRO:C	2.30	0.57
4:AD:124:LYS:O	4:AD:125:ILE:C	2.47	0.57
4:AD:130:PRO:HB2	4:AD:132:GLU:HB3	1.86	0.57
4:AD:174:ARG:NH1	4:AD:174:ARG:CG	2.60	0.57
5:AE:79:ARG:NH1	5:AE:104:PHE:C	2.63	0.57
5:AE:269:ILE:HD11	5:AE:297:LYS:N	2.20	0.57
6:AF:35:VAL:HG12	6:AF:39:GLN:HE21	1.69	0.57
6:AF:86:GLY:O	6:AF:87:ARG:HB2	2.05	0.57
8:AH:61:ARG:O	8:AH:62:ALA:C	2.48	0.57
8:AH:150:VAL:O	8:AH:152:PRO:HD3	2.05	0.57
9:AJ:85:LEU:HD12	11:AL:57:VAL:HG12	1.87	0.57
10:AK:131:VAL:O	10:AK:133:LEU:HG	2.04	0.57
11:AL:56:VAL:HG12	11:AL:58:ILE:CG1	2.35	0.57
12:AM:53:ILE:HG23	12:AM:135:ILE:CD1	2.35	0.57
12:AM:63:ILE:HD12	12:AM:71:TYR:CE2	2.40	0.57
12:AM:83:ILE:HG13	12:AM:84:ARG:N	2.20	0.57
15:AP:34:GLY:CA	15:AP:74:ASN:O	2.47	0.57
15:AP:60:ALA:O	15:AP:63:ALA:HB3	2.05	0.57
18:AS:36:LEU:CD1	18:AS:48:ALA:HA	2.34	0.57
18:AS:80:PRO:O	18:AS:100:THR:OG1	2.14	0.57
19:AT:7:HIS:HB2	19:AT:8:PRO:HD2	1.87	0.57
19:AT:37:VAL:O	19:AT:41:VAL:HG23	2.05	0.57
21:AV:13:LYS:HZ3	21:AV:33:ALA:HA	1.64	0.57
21:AV:122:ILE:O	21:AV:161:ALA:HB3	2.05	0.57
23:AX:12:PRO:HG3	23:AX:20:LYS:HZ3	1.70	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:20:LEU:C	24:A0:20:LEU:CD1	2.70	0.57
24:A0:51:LEU:CD2	24:A0:70:LEU:HD21	2.32	0.57
24:A0:99:LYS:O	29:A5:44:HIS:NE2	2.38	0.57
25:A1:41:ASN:O	25:A1:42:ALA:C	2.48	0.57
26:A2:19:VAL:O	26:A2:20:ILE:C	2.48	0.57
27:A3:46:LYS:NZ	27:A3:60:PHE:O	2.38	0.57
28:A4:14:ILE:HD12	28:A4:39:VAL:HG21	1.86	0.57
30:A6:19:GLY:C	30:A6:42:PRO:HB2	2.30	0.57
32:A8:9:MET:O	32:A8:14:ILE:CB	2.52	0.57
34:BA:17:U:C2	34:BA:18:C:C5	2.93	0.57
34:BA:28:G:H1	34:BA:555:C:H42	1.52	0.57
34:BA:62:U:H4'	34:BA:385:C:O2	2.04	0.57
34:BA:163:C:H2'	34:BA:164:U:O4'	2.04	0.57
34:BA:236:G:C5'	52:BT:42:TYR:OH	2.53	0.57
34:BA:285:G:C4	34:BA:286:G:C8	2.93	0.57
34:BA:285:G:C6	34:BA:286:G:N7	2.73	0.57
34:BA:328:C:O2'	34:BA:329:A:OP2	2.22	0.57
34:BA:373:A:C8	34:BA:482:A:N7	2.73	0.57
34:BA:530:G:C5	35:BB:35:A:O4'	2.57	0.57
34:BA:538:G:OP1	47:BO:113:ARG:HD3	2.05	0.57
34:BA:598:U:C4'	43:BK:94:TYR:CD2	2.87	0.57
34:BA:712:A:O2'	34:BA:713:G:H5'	2.05	0.57
34:BA:716:A:H1'	46:BN:118:GLY:CA	2.35	0.57
34:BA:814:A:O2'	34:BA:815:A:O5'	2.22	0.57
34:BA:880:C:C2'	34:BA:881:G:O5'	2.52	0.57
34:BA:1141:C:C2	34:BA:1142:G:C8	2.93	0.57
34:BA:1227:A:C2'	48:BP:115:LYS:HB3	2.34	0.57
34:BA:1269:A:N6	34:BA:1312:G:O2'	2.37	0.57
34:BA:1342:C:O2'	44:BL:124:GLN:HB2	2.04	0.57
34:BA:1387:G:C6	34:BA:1388:C:N4	2.73	0.57
34:BA:1399:C:N4	34:BA:1504:G:H1	2.03	0.57
34:BA:1438:G:C5	34:BA:1439:C:C5	2.93	0.57
34:BA:1451:A:H3'	34:BA:1451:A:H8	1.69	0.57
35:BB:18:G:N2	35:BB:57:G:C4	2.73	0.57
35:BB:23:A:C2	35:BB:24:G:C2	2.93	0.57
35:BC:34:G:H2'	35:BC:35:A:H5''	1.87	0.57
37:BE:80:ILE:HD12	37:BE:208:ILE:HG12	1.86	0.57
37:BE:132:LYS:HB2	37:BE:133:LYS:CE	2.34	0.57
38:BF:84:ILE:HG13	38:BF:101:LEU:CG	2.35	0.57
39:BG:43:HIS:CA	39:BG:46:LYS:HG3	2.35	0.57
39:BG:100:ARG:O	39:BG:103:ASN:HB3	2.05	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:78:HIS:HB3	43:BK:107:LEU:CD1	2.34	0.57
40:BH:103:GLY:O	40:BH:106:PRO:HD2	2.04	0.57
42:BJ:32:ARG:O	42:BJ:33:ASP:HB2	2.05	0.57
43:BK:6:ILE:HG21	43:BK:85:ARG:HH12	1.69	0.57
43:BK:120:THR:O	43:BK:123:GLU:OE2	2.23	0.57
45:BM:48:THR:OG1	45:BM:62:HIS:HB3	2.05	0.57
48:BP:37:THR:HG21	48:BP:56:LEU:HD23	1.87	0.57
50:BR:70:LEU:HG	50:BR:78:TYR:HB2	1.85	0.57
51:BS:78:GLY:O	51:BS:79:VAL:HG22	2.05	0.57
52:BT:53:LEU:HD21	52:BT:85:VAL:HG11	1.87	0.57
53:BU:30:ASP:CG	53:BU:32:ARG:HB2	2.29	0.57
53:BU:56:THR:CB	53:BU:58:LEU:HG	2.27	0.57
53:BU:73:ALA:HB1	53:BU:79:LEU:HD11	1.87	0.57
54:BV:33:THR:O	54:BV:57:HIS:HE1	1.88	0.57
54:BV:51:VAL:O	54:BV:58:VAL:HG22	2.05	0.57
55:BW:82:SER:OG	55:BW:83:ARG:N	2.37	0.57
1:AB:8:U:C2	1:AB:9:G:N7	2.73	0.56
1:AB:74:U:C2'	1:AB:75:G:H8	2.18	0.56
2:AA:18:C:N3	2:AA:19:C:C5	2.73	0.56
2:AA:48:G:C4	2:AA:178:G:N2	2.73	0.56
2:AA:48:G:C2	2:AA:178:G:N1	2.73	0.56
2:AA:134:C:C4	2:AA:135:G:N7	2.73	0.56
2:AA:161:U:H4'	2:AA:162:U:C2	2.40	0.56
2:AA:185:U:H2'	2:AA:186:G:C8	2.37	0.56
2:AA:214:G:H22	2:AA:215:G:N2	2.02	0.56
2:AA:240:G:N1	2:AA:241:A:N6	2.52	0.56
2:AA:242:G:H2'	2:AA:254:G:C6	2.39	0.56
2:AA:284:U:H3	2:AA:357:A:N6	2.02	0.56
2:AA:306:U:C5	2:AA:307:G:N9	2.73	0.56
2:AA:582:G:H8	2:AA:582:G:O5'	1.87	0.56
2:AA:635:C:H2'	2:AA:636:G:O4'	2.05	0.56
2:AA:673:C:OP1	6:AF:81:PRO:CD	2.53	0.56
2:AA:678:C:C4	2:AA:679:C:C5	2.93	0.56
2:AA:714:U:O5'	2:AA:714:U:H6	1.88	0.56
2:AA:743:G:C2	2:AA:755:C:C2	2.92	0.56
2:AA:783:A:O2'	2:AA:784:A:P	2.63	0.56
2:AA:812:C:H42	2:AA:1195:G:H1	1.52	0.56
2:AA:821:A:H2'	2:AA:946:G:H5'	1.85	0.56
2:AA:851:U:O4'	23:AX:46:ASN:OD1	2.23	0.56
2:AA:953:A:N6	2:AA:965:C:N4	2.53	0.56
2:AA:954:G:P	15:AP:10:ILE:HG22	2.45	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:973:A:C6	26:A2:81:ARG:HG3	2.39	0.56
2:AA:1018:C:H2'	2:AA:1019:U:C5'	2.34	0.56
2:AA:1020:A:C4'	12:AM:49:ARG:CZ	2.83	0.56
2:AA:1058:G:H21	11:AL:117:ASN:HD21	1.51	0.56
2:AA:1061:U:C4'	2:AA:1070:A:C1'	2.63	0.56
2:AA:1066:U:C2	2:AA:1069:A:OP2	2.57	0.56
2:AA:1317:A:O5'	2:AA:1317:A:H8	1.87	0.56
2:AA:1344:G:C6	2:AA:1385:G:N7	2.73	0.56
2:AA:1353:A:N1	2:AA:1354:A:C5	2.72	0.56
2:AA:1449:A:C2'	2:AA:449(A):G:O5'	2.53	0.56
2:AA:1498:C:H3'	2:AA:1499:C:C6	2.38	0.56
2:AA:1501:C:O4'	4:AD:98:GLY:HA2	2.04	0.56
2:AA:1571:A:N3	2:AA:1571:A:C2'	2.68	0.56
2:AA:1593:G:H2'	2:AA:1594:G:H8	1.69	0.56
2:AA:1805:U:H5''	4:AD:235:PRO:HB3	1.87	0.56
2:AA:2078:C:O2'	2:AA:2079:U:H5'	2.05	0.56
2:AA:2107:C:N3	2:AA:2182:G:C2	2.73	0.56
2:AA:2251:G:C5'	15:AP:102:ARG:CZ	2.82	0.56
2:AA:2277:G:O3'	15:AP:15:THR:CG2	2.53	0.56
2:AA:2313:C:OP1	7:AG:51:ARG:CG	2.53	0.56
2:AA:2320:A:H1'	2:AA:2333:A:H62	1.65	0.56
2:AA:2320:A:N1	16:AQ:13:ARG:CD	2.68	0.56
2:AA:2320:A:H2	2:AA:2333:A:C4	2.23	0.56
2:AA:2371:G:O3'	30:A6:47:HIS:CE1	2.58	0.56
2:AA:2447:G:C6	2:AA:2501:C:O2	2.58	0.56
2:AA:2481:G:HO2'	2:AA:2482:G:H8	1.53	0.56
2:AA:2660:A:O2'	2:AA:2661:G:H5'	2.05	0.56
2:AA:2684:U:H5'	13:AN:76:TYR:CE1	2.40	0.56
2:AA:2740:A:C6	2:AA:2741:A:C6	2.93	0.56
4:AD:77:VAL:N	4:AD:113:MET:HA	2.20	0.56
5:AE:199:ALA:HA	5:AE:314:ALA:CA	2.34	0.56
5:AE:299:SER:O	5:AE:301:PRO:N	2.38	0.56
6:AF:115:LEU:HD13	6:AF:118:THR:HG21	1.85	0.56
6:AF:223:LEU:C	6:AF:225:PRO:N	2.59	0.56
7:AG:23:VAL:HG12	7:AG:130:VAL:HG12	1.87	0.56
7:AG:97:GLN:OE1	7:AG:106:PHE:CE2	2.58	0.56
9:AJ:57:THR:HB	9:AJ:107:SER:CB	2.35	0.56
9:AJ:57:THR:O	9:AJ:58:GLU:HG3	2.05	0.56
11:AL:72:THR:HB	11:AL:112:LYS:HG3	1.87	0.56
11:AL:92:PRO:C	11:AL:94:ARG:N	2.61	0.56
11:AL:107:GLU:HA	11:AL:110:LYS:CD	2.35	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:63:ILE:HB	12:AM:71:TYR:CZ	2.40	0.56
13:AN:114:ILE:HG22	13:AN:115:ILE:N	2.20	0.56
15:AP:63:ALA:O	15:AP:65:ARG:N	2.38	0.56
18:AS:70:TYR:CD2	18:AS:71:VAL:O	2.58	0.56
19:AT:23:LYS:O	19:AT:68:LEU:HD21	2.05	0.56
20:AU:105:ASP:HB2	20:AU:108:ARG:CG	2.34	0.56
23:AX:17:LYS:O	23:AX:20:LYS:HB2	2.05	0.56
26:A2:4:ILE:O	26:A2:39:PHE:CE2	2.57	0.56
28:A4:64:GLY:O	28:A4:67:TYR:C	2.48	0.56
28:A4:68:ARG:HB3	28:A4:71:SER:O	2.05	0.56
31:A7:21:ARG:CZ	31:A7:43:THR:CG2	2.82	0.56
32:A8:21:LYS:HD2	32:A8:48:PHE:CE1	2.40	0.56
34:BA:226:G:C2	34:BA:227:G:C4	2.93	0.56
34:BA:228:A:C2'	34:BA:229:U:H5'	2.34	0.56
34:BA:409:G:C4	34:BA:410:G:C8	2.93	0.56
34:BA:451:A:H1'	34:BA:452:A:C8	2.40	0.56
34:BA:451:A:H1'	34:BA:452:A:C5	2.40	0.56
34:BA:647:C:O2'	34:BA:648:A:H5'	2.04	0.56
34:BA:676:A:O2'	34:BA:677:U:H5'	2.05	0.56
34:BA:715:A:H2'	34:BA:716:A:O4'	2.03	0.56
34:BA:774:G:C6	34:BA:775:G:C5	2.92	0.56
34:BA:795:C:H4'	34:BA:1506:U:C2	2.39	0.56
34:BA:886:G:N1	34:BA:912:C:C2	2.73	0.56
34:BA:944:G:H3'	34:BA:945:G:C5'	2.35	0.56
34:BA:948:C:H2'	34:BA:949:A:O5'	2.05	0.56
34:BA:955:U:H2'	34:BA:956:U:C6	2.39	0.56
34:BA:1200:C:H2'	34:BA:1200:C:O2	2.05	0.56
34:BA:1291:G:H2'	34:BA:1292:U:H6	1.68	0.56
34:BA:1425:U:C2	34:BA:1426:C:C5	2.93	0.56
34:BA:1511:G:N7	34:BA:1512:U:C5	2.73	0.56
35:BB:19:G:H3'	35:BB:20:G:N7	2.19	0.56
37:BE:55:PHE:O	37:BE:58:ILE:CB	2.50	0.56
37:BE:167:PRO:HG3	37:BE:192:SER:CB	2.35	0.56
38:BF:7:PRO:O	38:BF:11:ARG:HB2	2.05	0.56
38:BF:33:LEU:CD1	49:BQ:53:LEU:HA	2.35	0.56
39:BG:52:SER:O	39:BG:55:ALA:N	2.38	0.56
39:BG:99:SER:HB3	39:BG:139:ARG:HG3	1.87	0.56
39:BG:155:LEU:N	39:BG:158:ILE:HG13	2.16	0.56
40:BH:80:ILE:HD12	40:BH:91:LEU:O	2.05	0.56
41:BI:39:LYS:HD3	41:BI:64:GLN:HE22	1.67	0.56
43:BK:17:THR:HB	43:BK:18:ARG:CZ	2.35	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:28:ALA:HB2	43:BK:57:PRO:O	2.04	0.56
43:BK:113:SER:CA	43:BK:117:GLY:O	2.42	0.56
44:BL:10:ARG:HA	44:BL:104:ARG:CG	2.35	0.56
44:BL:12:GLU:N	44:BL:104:ARG:HH22	1.98	0.56
44:BL:28:VAL:O	44:BL:30:GLY:N	2.38	0.56
44:BL:47:LEU:HD13	44:BL:50:LEU:HB3	1.86	0.56
45:BM:49:VAL:O	45:BM:60:ARG:CD	2.53	0.56
45:BM:63:PHE:CE2	49:BQ:48:ALA:HB1	2.40	0.56
47:BO:35:GLY:O	47:BO:82:VAL:CG1	2.53	0.56
47:BO:61:THR:C	47:BO:62:SER:HG	2.11	0.56
50:BR:3:ILE:HG23	50:BR:38:ARG:HE	1.70	0.56
51:BS:18:ARG:HA	51:BS:35:LYS:NZ	2.20	0.56
55:BW:50:GLU:HB2	55:BW:99:LEU:CB	2.35	0.56
1:AB:16:G:H2'	1:AB:17:C:H6	1.70	0.56
2:AA:21:A:O2'	2:AA:22:C:H5'	2.05	0.56
2:AA:82:G:H5''	2:AA:296:C:OP1	2.04	0.56
2:AA:270(C):C:OP2	2:AA:365:C:O2'	2.23	0.56
2:AA:270(W):G:H3'	2:AA:270(X):G:H8	1.70	0.56
2:AA:442:G:O2'	6:AF:46:TYR:HE1	1.88	0.56
2:AA:445:C:OP1	25:A1:2:PRO:CD	2.52	0.56
2:AA:502:A:O2'	2:AA:503:A:H5'	2.05	0.56
2:AA:503:A:C1'	2:AA:505:A:C8	2.87	0.56
2:AA:543:C:C2'	2:AA:544:C:O5'	2.52	0.56
2:AA:559:G:C2'	2:AA:560:C:O4'	2.54	0.56
2:AA:593:G:N2	2:AA:594:U:C2	2.72	0.56
2:AA:629:G:H1'	2:AA:639:U:HO2'	1.68	0.56
2:AA:697:C:C2'	2:AA:698:C:C5'	2.82	0.56
2:AA:724:U:H2'	2:AA:725:G:O5'	2.05	0.56
2:AA:846:C:C2'	2:AA:847:U:OP2	2.53	0.56
2:AA:1012:U:H6	2:AA:1012:U:C3'	2.13	0.56
2:AA:1014:U:C2'	2:AA:1015:G:O5'	2.53	0.56
2:AA:1092:C:N4	2:AA:1093:G:N3	2.53	0.56
2:AA:1195:G:H2'	2:AA:1226:G:N2	2.20	0.56
2:AA:1237:A:O2'	2:AA:1238:G:O5'	2.23	0.56
2:AA:1239:G:N3	2:AA:1240:U:C6	2.73	0.56
2:AA:1327:C:N4	2:AA:1647:G:C2	2.73	0.56
2:AA:1510:A:C8	2:AA:1511:A:N1	2.73	0.56
2:AA:1554:A:H2'	2:AA:1555:G:N7	2.20	0.56
2:AA:1566:A:N1	4:AD:212:HIS:CG	2.73	0.56
2:AA:1657:C:C5	2:AA:1657:C:OP2	2.58	0.56
2:AA:1687:G:N1	2:AA:1688:U:C4	2.73	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1759:A:O2'	2:AA:1760:A:O5'	2.22	0.56
2:AA:1789:A:H5''	4:AD:224:VAL:HG13	1.87	0.56
2:AA:1800:C:N3	2:AA:1817:G:N2	2.53	0.56
2:AA:1820:U:HO2'	2:AA:1821:A:P	2.28	0.56
2:AA:2051:A:C4	2:AA:2614:A:N6	2.73	0.56
2:AA:2190:G:C6	2:AA:2191:G:N7	2.73	0.56
2:AA:2208:U:O2'	2:AA:2209:C:O4'	2.19	0.56
2:AA:2436:G:O6	2:AA:2437:U:C4	2.58	0.56
2:AA:2714:G:C6	2:AA:2715:C:C5	2.93	0.56
2:AA:2720:U:O4	2:AA:2872:G:C2	2.58	0.56
2:AA:2758:A:C2'	2:AA:2759:G:O5'	2.52	0.56
3:AC:211:SER:HA	3:AC:223:ARG:CZ	2.34	0.56
4:AD:123:ILE:CD1	4:AD:123:ILE:N	2.67	0.56
5:AE:72:VAL:HG13	5:AE:295:LEU:CD2	2.35	0.56
5:AE:193:PHE:CE2	5:AE:311:PHE:CD1	2.93	0.56
5:AE:237:ASN:O	5:AE:238:LEU:HD13	2.05	0.56
7:AG:56:ARG:NH2	35:BC:19:G:H22	2.03	0.56
8:AH:86:LEU:HD23	8:AH:148:ARG:NE	2.18	0.56
8:AH:117:GLU:O	8:AH:118:GLU:C	2.49	0.56
10:AK:38:GLU:O	10:AK:39:ALA:C	2.48	0.56
10:AK:121:ILE:HG22	10:AK:122:ARG:N	2.21	0.56
12:AM:75:PRO:HG2	12:AM:76:ASP:H	1.70	0.56
13:AN:1:MET:CG	13:AN:67:ARG:HD2	2.35	0.56
13:AN:2:ILE:HG22	13:AN:21:VAL:CG2	2.34	0.56
13:AN:21:VAL:CG2	13:AN:39:VAL:HG11	2.33	0.56
13:AN:92:SER:HB3	13:AN:113:LYS:HZ1	1.67	0.56
13:AN:101:PRO:HD3	17:AR:26:GLY:CA	2.35	0.56
15:AP:48:ASN:HD21	15:AP:122:PHE:H	1.53	0.56
15:AP:89:PRO:HG2	15:AP:89:PRO:O	2.04	0.56
15:AP:133:GLU:CG	15:AP:134:PHE:N	2.68	0.56
16:AQ:34:LEU:HG	16:AQ:101:VAL:C	2.29	0.56
17:AR:6:CYS:SG	17:AR:31:PHE:HA	2.45	0.56
17:AR:33:SER:O	17:AR:36:CYS:SG	2.63	0.56
18:AS:38:TYR:CB	29:A5:41:LEU:HD21	2.21	0.56
18:AS:45:TYR:HD2	18:AS:46:PHE:N	2.03	0.56
19:AT:56:ASN:HD21	19:AT:62:LYS:NZ	2.04	0.56
20:AU:19:ARG:N	20:AU:21:LYS:HZ3	2.02	0.56
20:AU:49:GLU:CD	20:AU:58:GLU:O	2.48	0.56
20:AU:51:LEU:HD13	20:AU:95:ASN:HB3	1.87	0.56
21:AV:1:MET:N	21:AV:54:ILE:CD1	2.68	0.56
21:AV:21:ALA:O	21:AV:32:PHE:CA	2.53	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:142:ASN:O	21:AV:145:ASP:HB2	2.04	0.56
26:A2:57:GLN:CG	26:A2:58:ALA:N	2.56	0.56
27:A3:42:GLY:CA	27:A3:66:LYS:HA	2.34	0.56
28:A4:28:ARG:CB	28:A4:29:PRO:CD	2.82	0.56
29:A5:15:LYS:CB	29:A5:15:LYS:HZ3	2.14	0.56
30:A6:19:GLY:CA	30:A6:42:PRO:HB3	2.34	0.56
31:A7:42:LEU:O	31:A7:43:THR:C	2.47	0.56
34:BA:12:U:C4'	34:BA:526:C:H4'	2.22	0.56
34:BA:237:C:O2'	34:BA:238:G:H5'	2.06	0.56
34:BA:266:G:O2'	34:BA:267:C:OP2	2.23	0.56
34:BA:275:G:C4	34:BA:276:G:C8	2.93	0.56
34:BA:404:U:OP2	39:BG:118:ARG:NH1	2.36	0.56
34:BA:522:C:C2'	34:BA:523:A:O5'	2.53	0.56
34:BA:579:G:C5	34:BA:580:U:C5	2.92	0.56
34:BA:658:G:H2'	34:BA:659:U:H5'	1.87	0.56
34:BA:755:G:N3	34:BA:755:G:C2'	2.67	0.56
34:BA:781:A:C6	34:BA:802:A:C2	2.93	0.56
34:BA:1261:A:C8	34:BA:1275:A:C6	2.94	0.56
34:BA:1327:C:O2'	34:BA:1328:C:H5'	2.04	0.56
34:BA:1498:U:O2'	34:BA:1499:A:C8	2.58	0.56
34:BA:1539:C:O2	34:BA:1540:U:C6	2.58	0.56
35:BB:9:A:O2'	35:BB:45:G:C2'	2.54	0.56
35:BC:21:A:C6	35:BC:46:G:N2	2.73	0.56
35:BC:34:G:H22	36:B1:62:G:H1	1.49	0.56
35:BC:37:G:C5	35:BC:38:A:N7	2.73	0.56
35:BC:51:G:N1	35:BC:63:C:N4	2.42	0.56
35:BC:68:U:C4	35:BC:69:U:O4	2.58	0.56
37:BE:75:LYS:HE3	37:BE:78:GLN:CG	2.34	0.56
37:BE:78:GLN:CG	37:BE:94:ASN:HB3	2.35	0.56
37:BE:91:PRO:HD2	37:BE:155:LEU:HD23	1.87	0.56
37:BE:113:HIS:O	37:BE:116:GLU:HG2	2.05	0.56
37:BE:115:LEU:HB2	37:BE:149:LEU:HD13	1.85	0.56
37:BE:115:LEU:C	37:BE:118:LEU:HB2	2.30	0.56
37:BE:147:LYS:HG3	37:BE:148:TYR:CD1	2.41	0.56
38:BF:94:LEU:O	38:BF:95:THR:HG22	2.04	0.56
39:BG:120:LEU:HG	39:BG:125:HIS:CG	2.41	0.56
42:BJ:111:ARG:HH11	42:BJ:111:ARG:CB	2.15	0.56
44:BL:67:GLY:C	44:BL:73:GLN:NE2	2.63	0.56
44:BL:69:GLY:O	44:BL:73:GLN:HG3	2.04	0.56
51:BS:39:TYR:CE1	51:BS:41:PRO:HG3	2.39	0.56
51:BS:51:VAL:CG1	51:BS:74:LEU:HD23	2.33	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:101:ARG:HB3	52:BT:101:ARG:NH1	2.19	0.56
54:BV:31:ILE:O	54:BV:50:ALA:N	2.36	0.56
55:BW:20:LEU:O	55:BW:21:LYS:C	2.48	0.56
55:BW:51:GLU:CA	55:BW:54:LYS:HG3	2.35	0.56
55:BW:66:ALA:HB3	55:BW:72:LEU:HB2	1.86	0.56
1:AB:22:U:O5'	1:AB:22:U:H6	1.88	0.56
1:AB:63:G:H2'	1:AB:64:C:C6	2.39	0.56
1:AB:102:G:N2	1:AB:103:U:N3	2.52	0.56
1:AB:103:U:H6	1:AB:103:U:C3'	2.14	0.56
2:AA:4:C:H2'	2:AA:5:A:H8	1.71	0.56
2:AA:12:U:C2	2:AA:2627:G:OP1	2.57	0.56
2:AA:80:G:O2'	2:AA:81:G:H5'	2.04	0.56
2:AA:126:A:OP2	31:A7:18:PHE:N	2.39	0.56
2:AA:182:A:H2'	2:AA:183:C:H6	1.69	0.56
2:AA:211:A:H2'	2:AA:212:G:O4'	2.04	0.56
2:AA:225:A:N6	2:AA:419:C:C4'	2.62	0.56
2:AA:238:C:H2'	2:AA:238:C:O2	2.05	0.56
2:AA:244:A:C1'	2:AA:255:A:H62	2.19	0.56
2:AA:270(X):G:N3	2:AA:270(Y):G:H4'	2.19	0.56
2:AA:297:C:H2'	2:AA:298:G:C4'	2.34	0.56
2:AA:297:C:C2	2:AA:298:G:C1'	2.88	0.56
2:AA:317:G:N2	2:AA:318:C:O2	2.38	0.56
2:AA:370:G:N1	2:AA:424:G:N7	2.53	0.56
2:AA:422:A:H2'	2:AA:423:A:O5'	2.04	0.56
2:AA:468:G:C2'	2:AA:469:G:H5'	2.36	0.56
2:AA:493:G:N3	2:AA:494:G:C8	2.74	0.56
2:AA:556:G:O2'	2:AA:557:U:H5'	2.05	0.56
2:AA:628:G:H1	2:AA:635:C:H42	0.64	0.56
2:AA:665:C:H2'	2:AA:666:G:H8	1.71	0.56
2:AA:669:G:N3	2:AA:801:G:N1	2.54	0.56
2:AA:673:C:C4'	6:AF:82:GLN:HE22	2.18	0.56
2:AA:715:G:N2	2:AA:716:A:C2	2.74	0.56
2:AA:738:G:H2'	2:AA:739:G:O4'	2.05	0.56
2:AA:759:G:H2'	2:AA:760:G:C8	2.38	0.56
2:AA:851:U:O2'	23:AX:46:ASN:N	2.39	0.56
2:AA:873:G:C3'	15:AP:32:LYS:HG2	2.34	0.56
2:AA:898:C:C3'	2:AA:899:A:H5''	2.24	0.56
2:AA:947:G:O5'	2:AA:947:G:H8	1.88	0.56
2:AA:958:U:C2'	2:AA:959:A:OP2	2.53	0.56
2:AA:973:A:C6	26:A2:80:TYR:CA	2.88	0.56
2:AA:1026:U:C2'	2:AA:1027:A:O5'	2.52	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1032:A:OP1	33:A9:8:LYS:CG	2.54	0.56
2:AA:1059:G:N3	11:AL:127:ILE:HG23	2.20	0.56
2:AA:1130:U:H5''	2:AA:2515:C:O2'	2.05	0.56
2:AA:1155:A:H2'	2:AA:1156:A:C5'	2.33	0.56
2:AA:1257:C:O2'	6:AF:83:ALA:HB1	2.06	0.56
2:AA:1310:G:H2'	2:AA:1311:G:C4'	2.35	0.56
2:AA:1379:A:C3'	2:AA:1379:A:C4	2.87	0.56
2:AA:1398:C:H4'	19:AT:23:LYS:NZ	2.20	0.56
2:AA:1444:G:O3'	2:AA:444(A):A:C8	2.52	0.56
2:AA:1471:A:N6	2:AA:1519:G:H21	2.02	0.56
2:AA:1497:U:O2	2:AA:1577:C:O5'	2.23	0.56
2:AA:1545:A:H2'	2:AA:1545:A:N3	2.20	0.56
2:AA:1559:G:N2	2:AA:1560:G:OP1	2.38	0.56
2:AA:1657:C:OP2	2:AA:1657:C:H5	1.87	0.56
2:AA:1684:C:O2'	2:AA:1685:C:H5'	2.04	0.56
2:AA:1750:G:H2'	2:AA:1751:C:C6	2.40	0.56
2:AA:1754:C:H4'	17:AR:44:ARG:NH2	2.19	0.56
2:AA:1778:U:H2'	2:AA:1779:U:C5	2.40	0.56
2:AA:1785:A:H5''	2:AA:1785:A:C8	2.40	0.56
2:AA:1831:G:C6	2:AA:1832:C:C4	2.94	0.56
2:AA:1881:C:C2'	2:AA:1882:C:H5'	2.36	0.56
2:AA:1935:G:H2'	2:AA:1962:C:C4	2.39	0.56
2:AA:1940:U:O2	2:AA:1940:U:C2'	2.34	0.56
2:AA:1977:A:C2	2:AA:1978:A:N9	2.74	0.56
2:AA:2015:A:H3'	2:AA:2016:U:C5	2.39	0.56
2:AA:2052:G:C4	2:AA:2053:G:C8	2.94	0.56
2:AA:2061:G:C2'	2:AA:2062:A:H5''	2.33	0.56
2:AA:2065:C:O2'	2:AA:2449:U:O2	2.20	0.56
2:AA:2069:G:N2	2:AA:2070:G:N9	2.54	0.56
2:AA:2083:G:O2'	2:AA:2084:C:C5'	2.52	0.56
2:AA:2119:A:N1	2:AA:2147:G:OP1	2.37	0.56
2:AA:2149:G:C2'	2:AA:2150:U:C5'	2.72	0.56
2:AA:2227:A:C2	2:AA:2228:G:C5	2.93	0.56
2:AA:2236:C:C4	2:AA:2237:G:C4	2.93	0.56
2:AA:2264:C:C5	2:AA:2265:U:C5	2.93	0.56
2:AA:2444:G:C2	2:AA:2445:G:C4	2.93	0.56
2:AA:2452:C:C4	2:AA:2453:A:C6	2.93	0.56
2:AA:2507:C:N3	2:AA:2582:G:C2	2.74	0.56
2:AA:2659:G:C2'	2:AA:2661:G:OP2	2.53	0.56
2:AA:2670:A:H5''	2:AA:2670:A:H8	1.70	0.56
2:AA:2674:G:C6	2:AA:2675:A:N6	2.74	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2679:A:OP1	5:AE:261:ARG:NH2	2.38	0.56
2:AA:2716:U:C2'	2:AA:2717:G:O5'	2.53	0.56
2:AA:2797:U:O3'	2:AA:2798:C:H4'	2.05	0.56
2:AA:2810:A:H2	2:AA:2892:A:C2	2.23	0.56
2:AA:2831:G:H1'	2:AA:2883:A:N3	2.21	0.56
3:AC:10:LEU:CG	3:AC:220:PRO:HG2	2.32	0.56
3:AC:19:ILE:HG23	3:AC:224:ILE:C	2.30	0.56
3:AC:59:ARG:CG	3:AC:139:ASN:HD21	2.18	0.56
3:AC:146:GLY:C	3:AC:148:ASN:N	2.64	0.56
3:AC:176:GLY:HA3	3:AC:185:LEU:CD2	2.21	0.56
4:AD:119:PRO:C	4:AD:129:LEU:HD21	2.29	0.56
4:AD:131:LEU:HD13	4:AD:171:VAL:HG21	1.86	0.56
4:AD:141:HIS:NE2	4:AD:193:GLU:O	2.39	0.56
4:AD:148:GLY:O	4:AD:149:ARG:CZ	2.53	0.56
5:AE:105:HIS:ND1	5:AE:108:LEU:CD1	2.69	0.56
6:AF:34:ALA:O	6:AF:37:ALA:HB3	2.05	0.56
6:AF:91:PRO:CB	6:AF:92:PRO:CD	2.83	0.56
6:AF:112:ARG:HH12	6:AF:246:ARG:C	2.14	0.56
6:AF:144:PHE:CE2	6:AF:156:LEU:CD1	2.87	0.56
6:AF:239:ALA:O	6:AF:242:GLU:CG	2.53	0.56
7:AG:45:THR:HG21	7:AG:73:VAL:HG11	1.88	0.56
7:AG:102:GLY:O	7:AG:103:ASN:OD1	2.24	0.56
7:AG:146:LYS:CD	16:AQ:15:GLU:OE2	2.53	0.56
8:AH:10:ILE:HG23	8:AH:14:VAL:CB	2.35	0.56
8:AH:43:THR:O	8:AH:49:ILE:HG22	2.05	0.56
8:AH:102:LEU:CB	8:AH:104:LEU:HD11	2.35	0.56
8:AH:108:TYR:N	8:AH:108:TYR:CD2	2.71	0.56
8:AH:147:ILE:O	8:AH:161:ILE:CD1	2.54	0.56
9:AI:1:MET:CG	9:AJ:86:LYS:HB2	2.35	0.56
9:AI:112:GLU:HA	9:AI:115:LYS:HD2	1.86	0.56
9:AJ:31:VAL:HG12	9:AJ:31:VAL:O	2.05	0.56
9:AJ:73:VAL:HG11	9:AJ:123:ALA:CB	2.36	0.56
9:AJ:74:ILE:HG12	9:AJ:92:VAL:HG11	1.86	0.56
10:AK:3:VAL:CG2	10:AK:19:LYS:O	2.53	0.56
10:AK:12:LYS:HZ2	10:AK:14:LYS:CE	2.18	0.56
11:AL:75:ALA:N	11:AL:112:LYS:NZ	2.54	0.56
13:AN:63:VAL:CG1	13:AN:106:LEU:HD11	2.35	0.56
13:AN:103:ALA:CA	13:AN:122:ILE:O	2.48	0.56
13:AN:104:ARG:O	13:AN:108:ASP:OD2	2.22	0.56
14:AO:55:GLN:HE21	14:AO:56:LYS:CB	2.18	0.56
14:AO:65:ASP:HA	14:AO:108:VAL:CG1	2.24	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:47:GLU:OE1	15:AP:151:SER:CA	2.47	0.56
15:AP:50:VAL:CG2	15:AP:147:VAL:HG22	2.35	0.56
16:AQ:31:LYS:CB	16:AQ:32:PRO:CD	2.84	0.56
16:AQ:37:ARG:O	16:AQ:43:VAL:HG13	2.05	0.56
16:AQ:57:THR:C	16:AQ:58:LEU:HD23	2.29	0.56
17:AR:45:GLU:O	17:AR:48:ASN:OD1	2.22	0.56
18:AS:4:LYS:CG	18:AS:106:ILE:HA	2.16	0.56
18:AS:12:ILE:HG22	18:AS:17:VAL:CG2	2.35	0.56
19:AT:8:PRO:HD3	22:AW:33:VAL:HG22	1.88	0.56
19:AT:48:THR:O	19:AT:50:GLU:CD	2.49	0.56
20:AU:29:ALA:O	20:AU:30:ASP:C	2.49	0.56
20:AU:55:PHE:O	20:AU:58:GLU:HB2	2.04	0.56
20:AU:58:GLU:HG2	20:AU:76:ASP:OD2	2.05	0.56
21:AV:72:ASP:OD2	21:AV:72:ASP:N	2.36	0.56
21:AV:136:VAL:C	21:AV:137:ASP:CG	2.72	0.56
23:AX:1:MET:N	23:AX:2:PRO:HD3	2.20	0.56
24:A0:52:ILE:CG2	24:A0:53:HIS:N	2.68	0.56
24:A0:99:LYS:HB3	29:A5:44:HIS:CE1	2.40	0.56
26:A2:59:GLU:OE1	26:A2:98:ILE:O	2.24	0.56
28:A4:11:PRO:O	28:A4:12:CYS:SG	2.63	0.56
28:A4:36:TRP:N	28:A4:36:TRP:CD1	2.72	0.56
28:A4:61:LYS:C	28:A4:63:PHE:N	2.61	0.56
32:A8:18:GLY:C	32:A8:20:GLY:H	2.12	0.56
32:A8:29:LYS:O	32:A8:30:ARG:O	2.23	0.56
34:BA:9:G:OP2	40:BH:122:GLU:N	2.39	0.56
34:BA:76:C:O2'	34:BA:77:G:H5'	2.06	0.56
34:BA:106:C:N3	34:BA:107:G:N7	2.53	0.56
34:BA:112:G:H21	34:BA:330:C:N4	2.03	0.56
34:BA:138:G:O2'	34:BA:139:G:H5'	2.05	0.56
34:BA:202:U:O3'	34:BA:203:U:C6	2.58	0.56
34:BA:314:C:H5''	34:BA:315:A:OP2	2.05	0.56
34:BA:344:A:H4'	34:BA:345:C:OP2	2.05	0.56
34:BA:559:A:C8	34:BA:561:U:C5	2.93	0.56
34:BA:571:U:OP1	34:BA:819:A:H2'	2.06	0.56
34:BA:591:U:P	43:BK:30:ARG:NH1	2.78	0.56
34:BA:596:C:N3	34:BA:644:G:N2	2.52	0.56
34:BA:599:C:N3	34:BA:639:G:N2	2.40	0.56
34:BA:672:U:O2	34:BA:673:G:C8	2.58	0.56
34:BA:688:G:H1'	34:BA:704:A:N1	2.20	0.56
34:BA:701:C:C4'	34:BA:702:A:OP2	2.52	0.56
34:BA:706:A:C2	34:BA:707:C:N1	2.73	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:765:G:O6	34:BA:812:C:C6	2.58	0.56
34:BA:792:A:C2	34:BA:794:A:C6	2.93	0.56
34:BA:817:C:C2'	34:BA:817:C:O2	2.52	0.56
34:BA:889:A:OP1	34:BA:891:U:O2	2.23	0.56
34:BA:926:G:C4	34:BA:1505:G:C2	2.92	0.56
34:BA:1122:U:H2'	34:BA:1123:A:O4'	2.05	0.56
34:BA:1175:G:N1	34:BA:1176:A:C5	2.74	0.56
34:BA:1195:C:O2	34:BA:1197:G:H1'	2.05	0.56
34:BA:1287:A:C2'	34:BA:1288:A:C8	2.77	0.56
34:BA:1291:G:O2'	34:BA:1292:U:O5'	2.18	0.56
34:BA:1489:G:H2'	34:BA:1490:C:C5'	2.31	0.56
34:BA:1495:U:O2'	34:BA:1496:C:C5'	2.49	0.56
34:BA:1500:A:H2'	34:BA:1501:C:C5	2.40	0.56
34:BA:1530:G:N1	34:BA:1531:A:N1	2.53	0.56
34:BA:1537:U:H2'	34:BA:1538:C:Cl'	2.35	0.56
35:BB:6:U:C2	35:BB:68:U:N3	2.72	0.56
35:BB:64:A:N6	35:BB:65:G:C6	2.72	0.56
35:BB:67:A:C2	35:BB:68:U:C6	2.94	0.56
35:BC:1:G:C2	35:BC:2:C:C5	2.94	0.56
35:BC:56:C:N4	35:BC:57:G:N1	2.54	0.56
35:BC:62:A:O2'	35:BC:63:C:C5'	2.52	0.56
37:BE:9:GLU:CG	37:BE:217:ARG:HH22	2.17	0.56
37:BE:28:PHE:CD1	37:BE:31:TYR:CB	2.89	0.56
37:BE:71:VAL:HG22	37:BE:93:VAL:HB	1.85	0.56
37:BE:85:ALA:O	37:BE:89:GLY:N	2.37	0.56
37:BE:87:ARG:O	37:BE:88:ALA:C	2.48	0.56
37:BE:102:LEU:CB	37:BE:176:GLU:OE1	2.52	0.56
37:BE:201:ILE:CD1	37:BE:201:ILE:N	2.68	0.56
37:BE:236:TYR:HA	37:BE:240:GLN:HE21	1.69	0.56
38:BF:29:TYR:HE2	49:BQ:54:PRO:HG2	1.66	0.56
38:BF:52:LEU:O	38:BF:53:ALA:HB2	2.05	0.56
38:BF:59:ARG:HG2	38:BF:60:ALA:H	1.70	0.56
38:BF:83:ARG:HG3	38:BF:87:LEU:CD1	2.23	0.56
39:BG:4:TYR:CZ	39:BG:5:ILE:O	2.59	0.56
39:BG:38:TYR:HD1	39:BG:39:PRO:O	1.88	0.56
39:BG:98:GLU:OE1	39:BG:103:ASN:ND2	2.32	0.56
39:BG:151:LYS:C	39:BG:154:ASN:ND2	2.63	0.56
39:BG:173:TRP:C	39:BG:186:LEU:HD12	2.29	0.56
40:BH:9:LYS:HD3	40:BH:108:ALA:HA	1.86	0.56
40:BH:34:VAL:CG2	40:BH:62:ALA:HB1	2.35	0.56
40:BH:95:ALA:O	40:BH:96:PRO:C	2.48	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:106:PRO:HB3	40:BH:120:THR:HG21	1.88	0.56
41:BI:45:LEU:HD23	41:BI:59:TYR:CA	2.35	0.56
41:BI:76:ALA:C	41:BI:80:ARG:HE	2.12	0.56
41:BI:89:MET:CG	53:BU:76:LEU:HD11	2.36	0.56
42:BJ:29:LYS:NZ	42:BJ:102:ARG:HH21	2.01	0.56
42:BJ:122:HIS:H	42:BJ:122:HIS:HD2	1.52	0.56
43:BK:9:MET:O	43:BK:13:ILE:CG1	2.53	0.56
43:BK:24:THR:HG22	43:BK:61:VAL:H	1.70	0.56
44:BL:105:ASP:O	44:BL:107:ARG:N	2.28	0.56
45:BM:21:GLN:HG2	45:BM:25:GLU:OE2	2.06	0.56
46:BN:110:ASP:HB2	53:BU:88:LYS:CB	2.35	0.56
46:BN:111:ASP:OD2	46:BN:111:ASP:C	2.48	0.56
47:BO:40:VAL:HG21	47:BO:78:GLN:HA	1.87	0.56
47:BO:88:GLY:CA	47:BO:99:HIS:HE1	2.19	0.56
48:BP:67:GLU:O	48:BP:70:LEU:HB3	2.06	0.56
48:BP:70:LEU:HD23	48:BP:70:LEU:C	2.30	0.56
50:BR:6:GLU:OE2	50:BR:6:GLU:N	2.38	0.56
50:BR:42:HIS:HE1	50:BR:46:HIS:CD2	2.23	0.56
52:BT:29:HIS:CG	52:BT:32:TYR:HB2	2.40	0.56
52:BT:97:SER:O	52:BT:98:LEU:CG	2.52	0.56
54:BV:8:GLY:O	54:BV:9:VAL:C	2.48	0.56
54:BV:46:GLY:N	54:BV:62:ILE:HG23	2.06	0.56
55:BW:45:GLN:CG	55:BW:91:LEU:HD21	2.33	0.56
55:BW:57:ARG:NH2	55:BW:100:ILE:O	2.38	0.56
55:BW:72:LEU:HD23	55:BW:76:ALA:HB1	1.88	0.56
1:AB:72:G:HO2'	1:AB:73:A:H8	1.53	0.56
1:AB:88:C:C5	1:AB:89:G:O4'	2.58	0.56
2:AA:243:U:P	32:A8:5:LYS:HZ3	2.28	0.56
2:AA:270(O):U:H5''	2:AA:270(P):C:H5	1.58	0.56
2:AA:446:G:C8	25:A1:3:ARG:NH2	2.72	0.56
2:AA:470:A:H4'	2:AA:470:A:OP1	2.06	0.56
2:AA:531:C:C4	2:AA:532:A:O2'	2.58	0.56
2:AA:592:G:N1	2:AA:593:G:C5	2.74	0.56
2:AA:627:A:N1	2:AA:637:A:H1'	2.18	0.56
2:AA:645:C:H5'	2:AA:646:A:OP1	2.06	0.56
2:AA:673:C:C4'	6:AF:82:GLN:NE2	2.68	0.56
2:AA:816:C:C4	2:AA:1192:G:N1	2.73	0.56
2:AA:878:A:N3	2:AA:879:G:H5''	2.21	0.56
2:AA:1022:G:C4	2:AA:1139:G:N1	2.73	0.56
2:AA:1083:U:O3'	9:AI:37:VAL:CA	2.52	0.56
2:AA:1140:C:O5'	12:AM:47:THR:HG23	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1239:G:C2'	2:AA:1240:U:C6	2.86	0.56
2:AA:1429:G:H2'	2:AA:1430:C:O4'	2.05	0.56
2:AA:1479:G:C2'	2:AA:1480:G:H8	2.16	0.56
2:AA:1534:G:N2	2:AA:1536:A:H1'	2.20	0.56
2:AA:1625:C:C2'	2:AA:1626:G:C4'	2.74	0.56
2:AA:1683:C:O2	2:AA:1683:C:H2'	2.04	0.56
2:AA:1690:A:H62	2:AA:1697:G:N2	2.01	0.56
2:AA:1699:G:N7	2:AA:1763:G:N3	2.53	0.56
2:AA:1773:A:H8	2:AA:1773:A:H3'	1.71	0.56
2:AA:1805:U:H5''	4:AD:235:PRO:CG	2.35	0.56
2:AA:1928:A:C8	2:AA:1928:A:H3'	2.41	0.56
2:AA:1936:A:C5'	2:AA:1937:A:N3	2.66	0.56
2:AA:1937:A:N7	2:AA:1939:U:N3	2.53	0.56
2:AA:1996:C:C2	2:AA:1997:G:O4'	2.57	0.56
2:AA:2124:G:O6	3:AC:129:ARG:NH1	2.38	0.56
2:AA:2142:C:N3	2:AA:2143:C:C5	2.73	0.56
2:AA:2299:G:H1	2:AA:2317:C:H42	1.53	0.56
2:AA:2333:A:C1'	2:AA:2335:A:C2	2.88	0.56
2:AA:2354:G:H4'	27:A3:31:VAL:HG11	1.87	0.56
2:AA:2821:A:OP1	5:AE:207:GLY:N	2.38	0.56
3:AC:197:GLU:HA	3:AC:208:PHE:HE2	1.70	0.56
4:AD:141:HIS:HA	4:AD:143:ILE:HG13	1.88	0.56
4:AD:143:ILE:HB	4:AD:152:GLN:C	2.31	0.56
5:AE:44:TYR:HE1	5:AE:308:VAL:HG13	1.66	0.56
5:AE:211:GLN:NE2	5:AE:215:LYS:HG3	2.20	0.56
6:AF:81:PRO:HA	6:AF:87:ARG:CG	2.34	0.56
6:AF:225:PRO:HB2	6:AF:231:ARG:NE	2.16	0.56
7:AG:28:GLY:O	7:AG:69:ILE:CD1	2.54	0.56
7:AG:87:ALA:C	7:AG:89:PRO:CD	2.79	0.56
9:AJ:80:ILE:HG22	9:AJ:81:THR:N	2.20	0.56
10:AK:98:ILE:CG2	10:AK:102:LEU:HD23	2.35	0.56
10:AK:145:VAL:HG12	10:AK:146:THR:N	2.20	0.56
11:AL:18:ALA:HB1	11:AL:39:CYS:O	2.04	0.56
11:AL:56:VAL:CG2	11:AL:70:ILE:HG12	2.35	0.56
12:AM:4:ALA:O	12:AM:5:GLU:O	2.23	0.56
12:AM:43:ARG:O	12:AM:43:ARG:HG2	2.05	0.56
15:AP:73:GLN:HB3	21:AV:175:ARG:HD2	1.86	0.56
16:AQ:18:THR:OG1	16:AQ:20:TYR:HD1	1.86	0.56
16:AQ:35:VAL:CG2	16:AQ:103:ASP:OD1	2.53	0.56
20:AU:19:ARG:O	20:AU:22:GLN:N	2.38	0.56
20:AU:19:ARG:HA	20:AU:21:LYS:NZ	2.21	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:3:LEU:CD2	21:AV:38:ALA:HB3	2.32	0.56
22:AW:30:ALA:C	22:AW:34:GLN:HG2	2.31	0.56
23:AX:57:GLU:OE1	23:AX:59:VAL:CG2	2.54	0.56
24:A0:44:LEU:HD22	24:A0:48:VAL:HG23	1.87	0.56
24:A0:104:ARG:HA	24:A0:105:ARG:NH2	2.19	0.56
24:A0:105:ARG:CZ	24:A0:105:ARG:H	2.17	0.56
26:A2:2:PHE:O	26:A2:44:GLN:OE1	2.24	0.56
26:A2:49:GLU:CD	26:A2:49:GLU:N	2.64	0.56
26:A2:79:GLN:O	26:A2:81:ARG:N	2.37	0.56
31:A7:42:LEU:O	31:A7:43:THR:O	2.23	0.56
32:A8:10:ALA:HA	32:A8:60:LEU:HD12	1.86	0.56
34:BA:110:C:O2	34:BA:111:G:C1'	2.53	0.56
34:BA:236:G:C4	34:BA:237:C:C5	2.93	0.56
34:BA:459:G:C2	34:BA:463:A:N6	2.73	0.56
34:BA:802:A:H2'	34:BA:803:G:O4'	2.05	0.56
34:BA:1134:G:N1	34:BA:1140:C:N4	2.09	0.56
34:BA:1138:G:H3'	34:BA:1138:G:N3	2.20	0.56
34:BA:1320:C:O2	54:BV:73:GLU:HA	2.05	0.56
34:BA:1390:U:N3	34:BA:1391:U:C4	2.73	0.56
35:BB:29:A:C5	35:BB:42:G:N1	2.74	0.56
35:BB:59:U:C2	35:BB:60:C:N3	2.74	0.56
37:BE:82:ARG:HB2	37:BE:94:ASN:HD21	1.71	0.56
37:BE:102:LEU:O	37:BE:180:LEU:CD1	2.53	0.56
37:BE:167:PRO:HG2	37:BE:168:THR:N	2.17	0.56
37:BE:193:ASP:O	37:BE:194:PRO:O	2.22	0.56
37:BE:234:PRO:O	37:BE:238:LEU:CD2	2.53	0.56
38:BF:18:TRP:N	38:BF:18:TRP:CE3	2.64	0.56
39:BG:148:VAL:CG1	39:BG:152:SER:HB3	2.35	0.56
40:BH:149:GLU:HA	40:BH:152:ARG:CB	2.33	0.56
42:BJ:42:ILE:HG22	42:BJ:120:ILE:HD12	1.88	0.56
42:BJ:50:ILE:CD1	42:BJ:58:PRO:CB	2.70	0.56
42:BJ:126:ASP:HA	42:BJ:129:GLU:HG3	1.86	0.56
43:BK:4:ASP:HB3	43:BK:6:ILE:HG23	1.88	0.56
43:BK:40:ALA:HB2	43:BK:45:ILE:HG23	1.86	0.56
43:BK:89:PRO:CB	43:BK:92:ARG:HH21	2.19	0.56
43:BK:100:ILE:CB	43:BK:125:ARG:NH2	2.68	0.56
44:BL:5:TYR:CD2	44:BL:6:GLY:N	2.73	0.56
44:BL:20:ARG:O	44:BL:21:PRO:C	2.47	0.56
44:BL:111:ARG:O	44:BL:113:LYS:NZ	2.38	0.56
46:BN:46:GLY:N	46:BN:55:LYS:CD	2.69	0.56
52:BT:60:ILE:HG12	52:BT:61:GLU:N	2.19	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:39:VAL:O	53:BU:43:PHE:CE1	2.59	0.56
55:BW:33:ILE:CG2	55:BW:63:ILE:HG13	2.35	0.56
55:BW:85:MET:O	55:BW:86:ARG:C	2.48	0.56
1:AB:73:A:N7	1:AB:104:A:C6	2.74	0.56
2:AA:83:G:O2'	2:AA:84:A:OP2	2.24	0.56
2:AA:124:G:H2'	31:A7:19:ARG:NH1	2.20	0.56
2:AA:134:C:C2	2:AA:146:G:C2	2.94	0.56
2:AA:209:C:C2'	2:AA:210:C:C5'	2.82	0.56
2:AA:246:C:N4	2:AA:252:G:C6	2.72	0.56
2:AA:250:G:H3'	32:A8:8:LYS:NZ	2.20	0.56
2:AA:304:G:N2	2:AA:305:U:H1'	2.20	0.56
2:AA:401:A:C4	2:AA:402:A:C8	2.93	0.56
2:AA:445:C:H3'	25:A1:3:ARG:HE	1.70	0.56
2:AA:491:G:C2	2:AA:492:A:C4	2.94	0.56
2:AA:701:G:C2	2:AA:732:C:N3	2.74	0.56
2:AA:785:G:N2	2:AA:786:C:C2	2.73	0.56
2:AA:786:C:C2'	2:AA:787:U:H5'	2.35	0.56
2:AA:819:A:C2	2:AA:943:U:O2	2.59	0.56
2:AA:851:U:O2'	23:AX:45:GLY:CA	2.50	0.56
2:AA:866:A:N6	2:AA:914:C:C4	2.74	0.56
2:AA:971:C:O2'	2:AA:972:G:O5'	2.23	0.56
2:AA:1000:A:N1	2:AA:1155:A:C4	2.73	0.56
2:AA:1020:A:O2'	12:AM:49:ARG:CZ	2.53	0.56
2:AA:1021:A:C8	2:AA:1021:A:H3'	2.41	0.56
2:AA:1035:U:C2	2:AA:1036:G:C8	2.93	0.56
2:AA:1078:U:OP1	11:AL:93:LYS:HE3	2.06	0.56
2:AA:1082:U:H3'	2:AA:1083:U:C6	2.40	0.56
2:AA:1104:C:H1'	9:AI:29:PHE:CE2	2.40	0.56
2:AA:1105:U:H1'	9:AI:27:ASP:O	2.04	0.56
2:AA:1156:A:C5'	2:AA:1157:G:N7	2.57	0.56
2:AA:1209:G:O3'	2:AA:1212:G:H5'	2.04	0.56
2:AA:1426:G:N2	2:AA:1571:A:C2	2.73	0.56
2:AA:1661:G:C6	2:AA:2000:G:C6	2.94	0.56
2:AA:1768:U:C2	2:AA:1985:G:N1	2.73	0.56
2:AA:1783:A:O5'	2:AA:1784:A:OP2	2.24	0.56
2:AA:1789:A:H5''	4:AD:224:VAL:CG1	2.35	0.56
2:AA:1809:A:HO2'	2:AA:1810:A:P	2.25	0.56
2:AA:1934:C:H5'	2:AA:1974:C:O2'	2.05	0.56
2:AA:2047:U:O2'	2:AA:2048:G:O5'	2.23	0.56
2:AA:2176:A:H2'	2:AA:2177:C:C6	2.37	0.56
2:AA:2452:C:N4	2:AA:2453:A:C6	2.73	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2483:C:N3	2:AA:2484:G:C8	2.73	0.56
2:AA:2520:C:N4	2:AA:2567:G:N7	2.54	0.56
2:AA:2565:A:O3'	2:AA:2566:A:C4'	2.54	0.56
2:AA:2603:G:O6	2:AA:2604:U:O4	2.24	0.56
2:AA:2606:C:H6	2:AA:2606:C:C5'	2.17	0.56
2:AA:2619:C:C4'	5:AE:247:ARG:O	2.52	0.56
2:AA:2742:C:OP1	33:A9:35:ARG:NE	2.38	0.56
2:AA:2776:A:C6	2:AA:2782:G:H1'	2.41	0.56
2:AA:2784:C:C5'	5:AE:95:PRO:O	2.53	0.56
2:AA:2792:G:H1	2:AA:2803:C:N4	2.03	0.56
2:AA:2839:G:H2'	2:AA:2840:C:C6	2.41	0.56
3:AC:21:THR:N	3:AC:24:GLU:OE1	2.35	0.56
3:AC:50:ASP:OD1	3:AC:52:ARG:N	2.39	0.56
3:AC:103:ILE:HD13	3:AC:110:PHE:CE2	2.39	0.56
3:AC:133:PRO:CG	3:AC:134:ARG:N	2.68	0.56
4:AD:63:ILE:C	4:AD:64:ILE:HG13	2.30	0.56
4:AD:118:GLY:O	4:AD:129:LEU:CD1	2.52	0.56
4:AD:140:VAL:CG1	4:AD:189:ALA:HB1	2.35	0.56
6:AF:214:THR:C	6:AF:216:SER:H	2.14	0.56
6:AF:243:VAL:O	6:AF:246:ARG:N	2.39	0.56
8:AH:12:ALA:C	8:AH:14:VAL:H	2.13	0.56
8:AH:98:GLN:CB	8:AH:103:VAL:CG2	2.78	0.56
9:AI:30:GLY:O	9:AI:34:ALA:HB3	2.04	0.56
9:AI:69:ASN:CB	9:AI:122:GLY:HA3	2.30	0.56
9:AI:81:THR:HG22	9:AI:103:LYS:HG2	1.88	0.56
9:AJ:5:GLU:HA	9:AJ:8:GLU:OE2	2.06	0.56
9:AJ:81:THR:HG21	9:AJ:102:ILE:O	2.06	0.56
10:AK:34:GLY:C	10:AK:35:LEU:HG	2.30	0.56
11:AL:132:ALA:HA	11:AL:137:ILE:HD12	1.86	0.56
12:AM:84:ARG:CD	12:AM:98:PHE:CD2	2.77	0.56
13:AN:11:ALA:HB1	13:AN:99:PHE:CB	2.33	0.56
14:AO:62:ALA:O	14:AO:107:LYS:CG	2.53	0.56
14:AO:124:ASP:CB	14:AO:130:ARG:NH2	2.65	0.56
15:AP:42:TYR:C	21:AV:119:ASN:HD21	2.13	0.56
16:AQ:21:HIS:O	16:AQ:23:ARG:N	2.37	0.56
16:AQ:22:GLN:O	16:AQ:25:ARG:CB	2.37	0.56
18:AS:3:ALA:HB2	18:AS:62:HIS:CG	2.39	0.56
20:AU:71:VAL:HA	20:AU:93:THR:CG2	2.35	0.56
20:AU:103:LEU:O	20:AU:104:GLU:C	2.49	0.56
21:AV:19:ILE:CG1	21:AV:79:ILE:HG23	2.33	0.56
21:AV:99:HIS:O	21:AV:137:ASP:OD1	2.23	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:23:LEU:HD22	23:AX:53:LEU:HD11	1.87	0.56
25:A1:111:ASP:CA	25:A1:114:ARG:HG3	2.36	0.56
26:A2:33:VAL:CG1	26:A2:34:GLU:N	2.68	0.56
27:A3:45:PHE:C	27:A3:46:LYS:HD2	2.30	0.56
28:A4:5:LEU:O	28:A4:7:PRO:CD	2.54	0.56
28:A4:46:GLU:CD	28:A4:54:GLY:HA3	2.30	0.56
32:A8:50:LEU:CD2	32:A8:51:ALA:N	2.55	0.56
34:BA:60:A:O2'	34:BA:61:G:OP2	2.22	0.56
34:BA:109:A:C5'	34:BA:110:C:OP2	2.53	0.56
34:BA:238:G:C6	34:BA:239:U:C4	2.93	0.56
34:BA:280:C:H1'	52:BT:38:ARG:CZ	2.36	0.56
34:BA:286:G:C4	34:BA:287:U:C6	2.94	0.56
34:BA:407:G:O2'	39:BG:116:GLN:CG	2.53	0.56
34:BA:418:C:H1'	34:BA:540:G:O2'	2.04	0.56
34:BA:454:C:H3'	34:BA:455:C:H6	1.71	0.56
34:BA:520:A:C8	34:BA:521:G:O4'	2.58	0.56
34:BA:616:G:O2'	34:BA:617:G:H5'	2.04	0.56
34:BA:753:A:H4'	34:BA:754:C:H5''	1.88	0.56
34:BA:795:C:H5''	34:BA:796:C:OP2	2.04	0.56
34:BA:874:G:C2	34:BA:875:C:C6	2.94	0.56
34:BA:931:C:N3	34:BA:1387:G:C6	2.73	0.56
34:BA:936:C:H2'	34:BA:937:A:C5'	2.35	0.56
34:BA:952:U:C4	48:BP:104:ARG:NH1	2.74	0.56
34:BA:1226:C:O5'	48:BP:103:THR:HB	2.04	0.56
34:BA:1291:G:P	42:BJ:37:ASN:HD21	2.28	0.56
34:BA:1324:A:C6	34:BA:1325:C:C5	2.93	0.56
34:BA:1484:C:C2	34:BA:1485:U:C6	2.94	0.56
34:BA:1515:C:O2	34:BA:1516:G:C8	2.59	0.56
35:BB:67:A:C4	35:BB:68:U:C5	2.94	0.56
35:BC:9:A:C2	35:BC:46:G:C8	2.92	0.56
35:BC:54:U:H2'	35:BC:55:U:C5'	2.34	0.56
38:BF:67:THR:HG21	38:BF:104:GLN:OE1	2.06	0.56
38:BF:83:ARG:C	38:BF:87:LEU:HG	2.30	0.56
38:BF:121:ALA:O	38:BF:124:ILE:N	2.38	0.56
39:BG:123:HIS:HB3	39:BG:125:HIS:CE1	2.41	0.56
41:BI:73:ASN:O	41:BI:76:ALA:HB3	2.05	0.56
42:BJ:13:GLN:O	42:BJ:14:PRO:O	2.23	0.56
43:BK:13:ILE:HG22	43:BK:14:ARG:N	2.20	0.56
44:BL:78:LYS:HE3	44:BL:101:PHE:CE2	2.41	0.56
44:BL:110:GLU:CD	44:BL:111:ARG:N	2.63	0.56
45:BM:47:PHE:N	45:BM:47:PHE:CD1	2.73	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:62:GLN:CD	46:BN:62:GLN:C	2.73	0.56
46:BN:84:VAL:HG22	46:BN:109:VAL:O	2.05	0.56
47:BO:104:VAL:O	47:BO:105:TYR:C	2.48	0.56
50:BR:63:ARG:O	50:BR:66:LEU:HB2	2.04	0.56
52:BT:75:ARG:HH12	52:BT:77:VAL:CA	2.17	0.56
52:BT:97:SER:HB2	52:BT:102:GLY:C	2.31	0.56
55:BW:38:LYS:O	55:BW:39:LYS:C	2.46	0.56
55:BW:40:ALA:HA	55:BW:55:ILE:CD1	2.34	0.56
1:AB:6:C:H5'	1:AB:27:C:O2'	2.05	0.56
1:AB:90:C:O2'	1:AB:91:C:C5'	2.53	0.56
2:AA:19:C:H2'	2:AA:19:C:O2	2.06	0.56
2:AA:238:C:N3	2:AA:239:U:C6	2.74	0.56
2:AA:383:U:C2	2:AA:385:C:C4	2.94	0.56
2:AA:430:G:C8	2:AA:430:G:OP2	2.58	0.56
2:AA:481:G:HO2'	2:AA:482:A:H8	1.54	0.56
2:AA:568:U:O2	2:AA:570:G:N7	2.38	0.56
2:AA:572:A:C6	2:AA:573:G:N1	2.73	0.56
2:AA:580:C:C4	2:AA:581:C:N4	2.73	0.56
2:AA:643:A:C2'	2:AA:644:A:C8	2.89	0.56
2:AA:696:G:O2'	2:AA:697:C:H5'	2.05	0.56
2:AA:751:A:N1	2:AA:789:A:C5	2.73	0.56
2:AA:751:A:H2'	2:AA:751:A:N3	2.21	0.56
2:AA:800:A:O2'	2:AA:801:G:C5'	2.53	0.56
2:AA:806:C:O2'	2:AA:2445:G:C4'	2.50	0.56
2:AA:832:G:O2'	2:AA:833:U:O5'	2.24	0.56
2:AA:857:C:C6	2:AA:857:C:C3'	2.88	0.56
2:AA:881:G:C6	2:AA:882:G:C4	2.93	0.56
2:AA:1029:A:C2'	2:AA:1030:G:C5'	2.83	0.56
2:AA:1068:G:N1	2:AA:1073:A:H2	2.02	0.56
2:AA:1078:U:C2	2:AA:1088:A:H1'	2.40	0.56
2:AA:1152:C:H2'	2:AA:1153:C:C5'	2.34	0.56
2:AA:1162:G:H21	26:A2:90:PHE:HD2	1.54	0.56
2:AA:1274:A:C2	2:AA:1297:C:O2	2.58	0.56
2:AA:1314:C:H42	2:AA:1338:G:H1	1.53	0.56
2:AA:1341:U:C5	2:AA:1397:U:O2	2.59	0.56
2:AA:1519:G:OP1	2:AA:1519:G:C4'	2.51	0.56
2:AA:1526:G:OP2	2:AA:1527:G:OP1	2.24	0.56
2:AA:1539:G:H4'	2:AA:1539:G:OP1	2.06	0.56
2:AA:1695:G:H2'	2:AA:1696:G:O5'	2.03	0.56
2:AA:1764:G:C6	2:AA:1989:G:C2	2.93	0.56
2:AA:1771:C:O2	2:AA:1772:G:C8	2.59	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1856:G:C6	2:AA:1887:C:N4	2.74	0.56
2:AA:1936:A:H1'	2:AA:1940:U:C4	2.37	0.56
2:AA:1996:C:H2'	2:AA:1997:G:C4'	2.36	0.56
2:AA:2014:A:C4	2:AA:2015:A:N1	2.74	0.56
2:AA:2143:C:C2	2:AA:2149:G:N2	2.74	0.56
2:AA:2687:U:O2	2:AA:2688:U:H6	1.89	0.56
3:AC:20:TYR:CZ	3:AC:222:VAL:HG22	2.40	0.56
3:AC:27:HIS:CE1	3:AC:182:PRO:CG	2.88	0.56
3:AC:39:GLU:OE2	3:AC:218:MET:O	2.24	0.56
3:AC:127:LEU:HA	3:AC:130:ILE:CD1	2.34	0.56
6:AF:164:ALA:O	6:AF:167:ASP:CB	2.51	0.56
6:AF:196:THR:C	6:AF:236:THR:HG1	2.14	0.56
7:AG:106:PHE:O	7:AG:130:VAL:CG2	2.47	0.56
8:AH:32:LEU:HB3	8:AH:78:VAL:CG2	2.34	0.56
9:AI:80:ILE:HG23	9:AI:103:LYS:CD	2.24	0.56
10:AK:6:LEU:HD12	10:AK:35:LEU:CA	2.29	0.56
12:AM:15:ARG:HA	12:AM:44:ALA:CA	2.36	0.56
12:AM:24:SER:HB3	12:AM:86:MET:HE3	1.86	0.56
12:AM:51:GLU:O	12:AM:54:VAL:HG23	2.05	0.56
14:AO:67:ARG:NH2	14:AO:109:LEU:O	2.39	0.56
15:AP:28:ILE:HG23	15:AP:62:GLU:OE2	2.06	0.56
16:AQ:98:GLU:HG3	16:AQ:99:GLU:H	1.70	0.56
19:AT:5:ILE:HD11	19:AT:41:VAL:HA	1.88	0.56
19:AT:13:LYS:O	19:AT:17:ASP:OD1	2.22	0.56
20:AU:92:ASP:O	20:AU:94:SER:N	2.38	0.56
20:AU:99:THR:O	20:AU:101:LEU:N	2.39	0.56
21:AV:16:GLU:N	21:AV:36:ARG:NH1	2.46	0.56
24:A0:58:GLY:O	24:A0:59:ASP:CB	2.54	0.56
24:A0:83:ILE:HA	24:A0:86:ARG:CG	2.28	0.56
25:A1:99:ALA:HB2	25:A1:106:PHE:CD1	2.41	0.56
25:A1:114:ARG:O	25:A1:117:ARG:CD	2.54	0.56
26:A2:20:ILE:O	26:A2:21:ARG:CZ	2.54	0.56
26:A2:62:GLU:HB2	26:A2:96:LEU:CG	2.35	0.56
27:A3:28:GLY:N	27:A3:60:PHE:CB	2.68	0.56
27:A3:67:VAL:HG11	27:A3:74:LYS:CA	2.26	0.56
30:A6:54:LYS:O	30:A6:54:LYS:HG3	2.06	0.56
31:A7:24:THR:HG23	31:A7:27:GLY:H	1.71	0.56
32:A8:16:ILE:CD1	32:A8:64:ARG:OXT	2.46	0.56
34:BA:55:A:C4	34:BA:56:U:C6	2.94	0.56
34:BA:88:A:C2	34:BA:89:C:H1'	2.41	0.56
34:BA:232:G:H2'	34:BA:233:C:O4'	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:492:G:H2'	34:BA:494:G:H5'	1.87	0.56
34:BA:627:G:C2	34:BA:628:G:C5	2.94	0.56
34:BA:653:A:O4'	43:BK:56:LYS:NZ	2.33	0.56
34:BA:767:A:N6	34:BA:813:U:N3	2.53	0.56
34:BA:838:G:N1	34:BA:849:C:C4	2.73	0.56
34:BA:921:U:OP1	34:BA:1082:G:H5''	2.06	0.56
34:BA:923:A:P	40:BH:21:ALA:HB2	2.46	0.56
34:BA:961:U:C4	34:BA:974:A:N1	2.64	0.56
34:BA:1206:G:C6	34:BA:1207:G:C5	2.94	0.56
34:BA:1227:A:C8	34:BA:1228:C:O4'	2.58	0.56
36:B1:10:U:H3	36:B1:46:A:H61	1.54	0.56
37:BE:82:ARG:NH1	37:BE:92:TYR:OH	2.39	0.56
37:BE:97:TRP:CZ2	37:BE:176:GLU:OE1	2.58	0.56
38:BF:20:SER:HA	38:BF:57:ILE:O	2.06	0.56
38:BF:138:VAL:HG22	38:BF:151:VAL:HG21	1.84	0.56
38:BF:157:ILE:CD1	38:BF:164:ARG:CZ	2.80	0.56
39:BG:177:ASP:C	39:BG:179:GLU:N	2.64	0.56
39:BG:187:ARG:HH21	39:BG:188:LEU:CD1	2.19	0.56
40:BH:91:LEU:HD11	40:BH:110:LEU:HD11	1.87	0.56
40:BH:125:SER:C	40:BH:127:ASN:N	2.60	0.56
41:BI:100:ASN:ND2	53:BU:23:LYS:O	2.39	0.56
42:BJ:10:ARG:HG2	42:BJ:10:ARG:NH1	2.19	0.56
43:BK:37:ARG:HD2	43:BK:38:ILE:CD1	2.26	0.56
44:BL:102:LEU:O	44:BL:103:THR:CB	2.53	0.56
45:BM:75:ILE:O	45:BM:76:ASN:HB2	2.06	0.56
46:BN:29:ILE:HG22	46:BN:44:SER:CB	2.36	0.56
48:BP:34:LEU:HD13	48:BP:41:PRO:HB3	1.85	0.56
48:BP:96:LEU:N	48:BP:96:LEU:HD23	2.20	0.56
51:BS:52:ASP:OD1	51:BS:55:ARG:HB2	2.06	0.56
52:BT:67:LYS:O	52:BT:68:ARG:CB	2.54	0.56
53:BU:46:GLU:CB	53:BU:85:LEU:CD1	2.76	0.56
54:BV:13:ASP:HA	54:BV:16:LEU:HB3	1.87	0.56
54:BV:36:ARG:NH2	54:BV:72:GLY:CA	2.69	0.56
1:AB:12:C:H6	27:A3:53:MET:SD	2.29	0.56
2:AA:29:U:H6	2:AA:29:U:O5'	1.89	0.56
2:AA:134:C:C2'	2:AA:135:G:H5'	2.35	0.56
2:AA:225:A:N6	2:AA:226:G:C6	2.74	0.56
2:AA:234:C:N4	2:AA:430:G:N2	2.54	0.56
2:AA:281:G:O2'	2:AA:282:A:O4'	2.24	0.56
2:AA:295:G:N2	2:AA:344:G:C4	2.71	0.56
2:AA:397:G:OP1	28:A4:41:PRO:CG	2.53	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:408:G:H8	2:AA:408:G:O5'	1.89	0.56
2:AA:447:A:N6	2:AA:473:G:C4	2.73	0.56
2:AA:600:G:O2'	6:AF:109:LEU:CD1	2.53	0.56
2:AA:627:A:N7	14:AO:109:LEU:HD21	2.21	0.56
2:AA:653:A:C5'	2:AA:654:A:H4'	2.35	0.56
2:AA:886:C:H5''	2:AA:887:A:OP1	2.06	0.56
2:AA:1061:U:H5'	2:AA:1070:A:H4'	1.85	0.56
2:AA:1087:G:C2	2:AA:1103:A:C4	2.94	0.56
2:AA:1233:C:C2'	2:AA:1234:U:O5'	2.53	0.56
2:AA:1355:G:H2'	2:AA:1356:G:C8	2.37	0.56
2:AA:1434:A:C4	2:AA:1560:G:N2	2.74	0.56
2:AA:1450:C:O2	2:AA:1450:C:H2'	2.05	0.56
2:AA:1498:C:C6	2:AA:1576:U:O2'	2.57	0.56
2:AA:1693:U:O4	2:AA:1829:A:N6	2.38	0.56
2:AA:1829:A:N3	2:AA:1830:C:O4'	2.39	0.56
2:AA:1879:C:H2'	2:AA:1880:C:C6	2.40	0.56
2:AA:1913:A:N6	2:AA:1916:A:H3'	2.21	0.56
2:AA:1920:C:P	34:BA:1517:G:H1'	2.46	0.56
2:AA:1971:A:H3'	2:AA:1971:A:C8	2.40	0.56
2:AA:2000:G:N3	2:AA:2001:A:C8	2.73	0.56
2:AA:2080:G:O3'	28:A4:33:VAL:HG22	2.05	0.56
2:AA:2090:G:C5	2:AA:2230:G:O6	2.59	0.56
2:AA:2122:U:H2'	2:AA:2123:G:H5''	1.87	0.56
2:AA:2183:C:C2	2:AA:2184:G:C8	2.93	0.56
2:AA:2277:G:N3	2:AA:2277:G:H2'	2.20	0.56
2:AA:2283:C:C2	2:AA:2284:C:H1'	2.40	0.56
2:AA:2316:C:C4'	7:AG:151:ILE:CD1	2.79	0.56
2:AA:2328:A:H2'	2:AA:2329:G:H8	1.70	0.56
2:AA:2344:U:O2	2:AA:2344:U:C2'	2.53	0.56
2:AA:2416:C:C2	2:AA:2417:C:C5	2.93	0.56
2:AA:2596:U:O3'	2:AA:2597:G:O4'	2.24	0.56
2:AA:2657:A:C8	2:AA:2657:A:H3'	2.40	0.56
2:AA:2830:G:C2	2:AA:2883:A:H2	2.24	0.56
3:AC:127:LEU:CB	3:AC:130:ILE:HB	2.36	0.56
4:AD:90:ILE:HG23	4:AD:91:ALA:N	2.20	0.56
4:AD:210:LYS:O	4:AD:213:LYS:CA	2.54	0.56
8:AH:19:ASN:O	8:AH:21:ASN:N	2.34	0.56
8:AH:116:PRO:HB3	8:AH:122:ILE:HD11	1.86	0.56
10:AK:61:GLU:O	10:AK:62:LEU:C	2.47	0.56
11:AL:29:GLY:HA2	11:AL:33:VAL:O	2.06	0.56
13:AN:1:MET:H3	13:AN:32:TYR:HB3	1.67	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:105:TYR:CD2	14:AO:105:TYR:N	2.72	0.56
15:AP:25:GLY:C	15:AP:27:GLY:N	2.64	0.56
15:AP:67:ALA:CB	15:AP:70:ARG:NH1	2.65	0.56
16:AQ:54:GLY:O	16:AQ:55:ASP:O	2.23	0.56
18:AS:69:LEU:HA	18:AS:108:GLY:O	2.05	0.56
20:AU:81:LYS:HG2	20:AU:82:THR:N	2.18	0.56
20:AU:102:ASP:HB3	20:AU:108:ARG:NH1	2.20	0.56
22:AW:31:ARG:O	22:AW:33:VAL:C	2.47	0.56
24:A0:67:LEU:HD23	24:A0:76:VAL:HG21	1.87	0.56
25:A1:50:ARG:NH1	26:A2:74:TYR:CD2	2.74	0.56
26:A2:7:THR:C	26:A2:9:GLY:N	2.59	0.56
27:A3:19:LYS:HB2	27:A3:21:LEU:HD11	1.86	0.56
27:A3:40:GLN:N	27:A3:69:PHE:CE1	2.74	0.56
34:BA:64:G:N2	34:BA:67:C:C4	2.73	0.56
34:BA:84:U:C4	34:BA:88:A:N7	2.74	0.56
34:BA:109:A:N7	34:BA:326:G:C4	2.74	0.56
34:BA:166:G:O2'	34:BA:167:G:C5'	2.52	0.56
34:BA:171:A:O2'	34:BA:172:A:H5'	2.06	0.56
34:BA:188:C:H2'	34:BA:189:G:H5'	1.87	0.56
34:BA:225:C:H2'	34:BA:225:C:O2	2.06	0.56
34:BA:491:G:H8	34:BA:491:G:O5'	1.88	0.56
34:BA:507:C:H2'	34:BA:508:C:C5	2.36	0.56
34:BA:619:U:O2	39:BG:133:VAL:HA	2.05	0.56
34:BA:687:A:HO2'	34:BA:688:G:P	2.29	0.56
34:BA:824:C:H1'	43:BK:1:MET:N	2.21	0.56
34:BA:962:C:C5	34:BA:963:G:N7	2.74	0.56
34:BA:970:C:C4	48:BP:126:LYS:HD3	2.41	0.56
34:BA:1030:C:H2'	34:BA:30(A):G:H8	1.71	0.56
34:BA:1048:G:OP1	49:BQ:3:ARG:HG3	2.06	0.56
34:BA:1094:G:O2'	34:BA:1095:U:OP2	2.23	0.56
34:BA:1174:G:C2'	34:BA:1175:G:H5'	2.36	0.56
34:BA:1195:C:N3	34:BA:1197:G:C8	2.74	0.56
34:BA:1301:U:C4	34:BA:1303:C:N1	2.74	0.56
34:BA:1358:U:OP2	34:BA:1359:C:C5	2.59	0.56
34:BA:1374:A:O3'	42:BJ:28:ASN:OD1	2.22	0.56
34:BA:1470:G:C4	34:BA:1471:G:C8	2.93	0.56
34:BA:1503:A:C8	36:B1:57:A:N6	2.74	0.56
34:BA:1531:A:H2'	34:BA:1532:U:C6	2.40	0.56
35:BB:40:C:O2'	48:BP:120:LYS:HE2	2.06	0.56
37:BE:24:TRP:CE3	37:BE:26:PRO:HA	2.41	0.56
37:BE:212:GLN:HE21	37:BE:215:LEU:HB3	1.71	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:222:ILE:CD1	37:BE:226:ARG:HE	2.19	0.56
38:BF:38:ARG:HB3	38:BF:94:LEU:HD11	1.86	0.56
38:BF:41:GLY:O	38:BF:45:LYS:HG3	2.06	0.56
38:BF:147:LYS:HB3	38:BF:203:PHE:HD2	1.71	0.56
38:BF:156:ARG:HB2	38:BF:196:LEU:HD22	1.88	0.56
38:BF:204:LEU:O	38:BF:205:GLY:C	2.48	0.56
39:BG:190:ASP:O	39:BG:193:ASP:CG	2.49	0.56
42:BJ:93:PRO:O	42:BJ:94:ARG:C	2.48	0.56
46:BN:99:GLN:HA	46:BN:105:VAL:HG22	1.87	0.56
47:BO:28:LYS:HD2	47:BO:33:ARG:NH1	2.20	0.56
47:BO:85:ILE:HG12	47:BO:87:GLY:H	1.70	0.56
47:BO:88:GLY:O	47:BO:97:ARG:C	2.48	0.56
48:BP:105:THR:O	48:BP:106:ASN:O	2.23	0.56
50:BR:74:ASP:O	50:BR:76:GLU:N	2.39	0.56
51:BS:32:TYR:HE2	51:BS:35:LYS:HB2	1.66	0.56
52:BT:86:GLU:CD	52:BT:89:LEU:HD12	2.31	0.56
53:BU:74:ARG:CG	53:BU:81:PHE:HB3	2.35	0.56
2:AA:10:G:H2'	2:AA:11:G:H8	1.68	0.56
2:AA:29:U:H2'	2:AA:30:G:H8	1.63	0.56
2:AA:65:C:N4	2:AA:66:C:H41	2.03	0.56
2:AA:89:G:N1	2:AA:90:U:O4	2.39	0.56
2:AA:112:U:C5	2:AA:113:G:N9	2.74	0.56
2:AA:178:G:C6	2:AA:179:G:C8	2.94	0.56
2:AA:270(C):C:P	2:AA:365:C:O2'	2.64	0.56
2:AA:273(F):C:O2'	2:AA:363(A):A:C2	2.52	0.56
2:AA:365:C:O5'	2:AA:365:C:H6	1.87	0.56
2:AA:447:A:H1'	2:AA:449:A:H62	0.58	0.56
2:AA:460:A:H3'	2:AA:461:C:C6	2.41	0.56
2:AA:530:G:O6	2:AA:2022:U:OP1	2.22	0.56
2:AA:540:G:C6	2:AA:541:C:C4	2.94	0.56
2:AA:583:G:C2'	2:AA:584:C:O5'	2.53	0.56
2:AA:653:A:N7	2:AA:655:A:C8	2.74	0.56
2:AA:693:C:H2'	2:AA:694:U:C6	2.41	0.56
2:AA:697:C:O2'	2:AA:698:C:C5'	2.40	0.56
2:AA:744:G:C2'	2:AA:745:G:O5'	2.54	0.56
2:AA:799:G:C5	2:AA:800:A:N1	2.73	0.56
2:AA:818:G:N2	2:AA:1189:A:N6	2.29	0.56
2:AA:850:C:C4'	23:AX:18:ASP:OD1	2.30	0.56
2:AA:909:A:O2'	2:AA:911:A:OP2	2.24	0.56
2:AA:946:G:C2'	2:AA:947:G:O4'	2.53	0.56
2:AA:1044:G:H4'	2:AA:1047:G:C4'	2.36	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1063:G:O2'	11:AL:90:SER:O	2.21	0.56
2:AA:1143:A:O2'	2:AA:1144:G:O5'	2.24	0.56
2:AA:1194:A:C6	2:AA:1195:G:C5	2.94	0.56
2:AA:1305:C:C2'	2:AA:1306:C:O5'	2.54	0.56
2:AA:1403:C:O3'	2:AA:1471:A:H4'	2.05	0.56
2:AA:1439:A:H2'	2:AA:1440:G:O4'	2.06	0.56
2:AA:1491:G:O2'	2:AA:1492:G:C5'	2.54	0.56
2:AA:1530:G:OP2	2:AA:1539:G:N1	2.39	0.56
2:AA:545(A):A:C8	2:AA:545(A):A:H3'	2.41	0.56
2:AA:545(A):A:OP2	2:AA:1546:C:C5	2.58	0.56
2:AA:1778:U:C6	2:AA:1784:A:C2	2.94	0.56
2:AA:1812:A:C2'	2:AA:1813:G:H5'	2.35	0.56
2:AA:1891:G:H3'	2:AA:1892:C:C6	2.39	0.56
2:AA:1996:C:O2	2:AA:1997:G:C4'	2.54	0.56
2:AA:1999:C:H2'	2:AA:2000:G:O5'	2.05	0.56
2:AA:2074:U:H3'	2:AA:2075:U:H5	1.71	0.56
2:AA:2258:C:C4	2:AA:2426:A:O4'	2.58	0.56
2:AA:2273:A:C2'	2:AA:2274:A:H5'	2.36	0.56
2:AA:2295:C:H2'	2:AA:2296:U:C5'	2.35	0.56
2:AA:2320:A:O5'	2:AA:2320:A:C8	2.57	0.56
2:AA:2649:U:H2'	2:AA:2650:U:C5	2.39	0.56
2:AA:2675:A:O2'	2:AA:2676:C:C5'	2.52	0.56
2:AA:2747:G:C2	2:AA:2754:U:N3	2.73	0.56
4:AD:92:LEU:HD11	4:AD:102:TYR:CD2	2.41	0.56
4:AD:128:ALA:HB1	4:AD:189:ALA:O	2.06	0.56
4:AD:174:ARG:HD3	4:AD:179:GLU:O	2.06	0.56
4:AD:213:LYS:CB	4:AD:215:LYS:H	2.17	0.56
5:AE:212:GLY:C	5:AE:214:VAL:N	2.62	0.56
5:AE:222:ARG:HH21	5:AE:233:ARG:C	2.12	0.56
6:AF:56:THR:O	6:AF:79:ARG:CD	2.54	0.56
8:AH:58:LYS:HA	8:AH:61:ARG:CZ	2.35	0.56
10:AK:56:ARG:O	10:AK:60:GLU:CB	2.54	0.56
10:AK:133:LEU:H	10:AK:138:THR:HG22	1.70	0.56
11:AL:19:THR:HA	11:AL:39:CYS:SG	2.46	0.56
12:AM:45:VAL:HG13	12:AM:131:THR:CB	2.36	0.56
12:AM:45:VAL:CG1	12:AM:131:THR:N	2.67	0.56
12:AM:60:ARG:CB	12:AM:71:TYR:HD2	2.18	0.56
13:AN:35:ILE:CD1	13:AN:35:ILE:H	2.18	0.56
13:AN:87:ILE:HA	13:AN:92:SER:O	2.06	0.56
13:AN:119:PRO:CD	13:AN:120:GLU:H	2.17	0.56
13:AN:120:GLU:HG2	13:AN:121:VAL:N	2.21	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:26:LYS:NZ	15:AP:88:PHE:CB	2.69	0.56
15:AP:94:ARG:NH1	15:AP:104:PRO:HB2	2.21	0.56
16:AQ:89:GLY:HA3	16:AQ:125:ALA:CB	2.35	0.56
16:AQ:122:ALA:HB2	16:AQ:127:LEU:HD13	1.88	0.56
17:AR:4:ARG:HE	17:AR:4:ARG:N	2.03	0.56
18:AS:19:LEU:HB3	29:A5:25:LEU:HD11	1.86	0.56
20:AU:19:ARG:HA	20:AU:21:LYS:HZ3	1.71	0.56
20:AU:31:LEU:HD13	20:AU:101:LEU:HD12	1.87	0.56
20:AU:101:LEU:HD22	20:AU:103:LEU:CD1	2.35	0.56
21:AV:118:HIS:CD2	21:AV:168:VAL:CA	2.79	0.56
22:AW:55:ARG:O	22:AW:58:THR:N	2.39	0.56
23:AX:55:ARG:CB	23:AX:55:ARG:CZ	2.84	0.56
24:A0:20:LEU:HD21	24:A0:24:GLN:CG	2.36	0.56
25:A1:74:MET:HG3	25:A1:117:ARG:HH12	1.69	0.56
26:A2:3:ALA:CA	26:A2:44:GLN:OE1	2.53	0.56
27:A3:44:LYS:CD	27:A3:78:PHE:CE2	2.79	0.56
27:A3:52:GLY:O	27:A3:53:MET:CB	2.54	0.56
32:A8:15:LYS:C	32:A8:16:ILE:HD12	2.31	0.56
34:BA:131:C:O2	34:BA:131:C:C2'	2.52	0.56
34:BA:258:G:O2'	34:BA:259:G:O5'	2.23	0.56
34:BA:303:A:H2'	34:BA:304:U:O4'	2.06	0.56
34:BA:513:C:C4	34:BA:514:C:N4	2.73	0.56
34:BA:519:C:O2'	34:BA:520:A:H5'	2.06	0.56
34:BA:658:G:H2'	34:BA:659:U:C5'	2.36	0.56
34:BA:748:C:C6	34:BA:748:C:P	2.99	0.56
34:BA:826:C:C1'	43:BK:15:ASN:HD22	2.17	0.56
34:BA:862:C:C5	34:BA:863:U:C5	2.94	0.56
34:BA:877:C:O2	34:BA:877:C:C2'	2.52	0.56
34:BA:952:U:H5'	34:BA:972:C:H41	1.68	0.56
34:BA:1014:A:H4'	54:BV:14:HIS:CE1	2.41	0.56
34:BA:1147:C:C2	34:BA:1148:U:C5	2.93	0.56
34:BA:1168:A:C6	34:BA:1169:A:C2	2.93	0.56
34:BA:1346:A:N6	34:BA:1374:A:H3'	2.21	0.56
34:BA:1428:A:C5	34:BA:1429:C:C4	2.94	0.56
34:BA:1524:C:C2	34:BA:1525:G:C8	2.93	0.56
35:BC:34:G:H22	36:B1:62:G:N2	2.00	0.56
35:BC:54:U:O2'	35:BC:55:U:H5'	2.06	0.56
37:BE:80:ILE:CD1	37:BE:208:ILE:HG23	2.31	0.56
37:BE:96:ARG:HD2	37:BE:96:ARG:H	1.69	0.56
37:BE:162:ILE:HD13	37:BE:162:ILE:N	2.20	0.56
37:BE:221:LEU:O	37:BE:224:GLN:HB2	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:22:TRP:CH2	38:BF:32:LEU:HB3	2.41	0.56
38:BF:152:ILE:HD12	38:BF:201:TYR:CE1	2.37	0.56
39:BG:65:ARG:CD	39:BG:72:GLU:OE2	2.52	0.56
40:BH:42:GLY:CA	40:BH:66:MET:SD	2.93	0.56
42:BJ:68:ASN:O	42:BJ:138:LYS:HD2	2.05	0.56
44:BL:10:ARG:CZ	44:BL:75:ASP:OD2	2.54	0.56
45:BM:75:ILE:HG22	45:BM:76:ASN:ND2	2.20	0.56
49:BQ:29:ARG:O	49:BQ:33:VAL:CG1	2.53	0.56
53:BU:56:THR:O	53:BU:58:LEU:HG	2.05	0.56
54:BV:4:SER:C	54:BV:5:LEU:HD23	2.31	0.56
1:AB:6:C:H2'	1:AB:7:G:H8	1.70	0.56
2:AA:10:G:C2	2:AA:11:G:C5	2.93	0.56
2:AA:250:G:N3	2:AA:250:G:C2'	2.69	0.56
2:AA:270(Q):C:C2	2:AA:270(R):G:H8	2.24	0.56
2:AA:365:C:C2	2:AA:366:C:C5	2.94	0.56
2:AA:401:A:C2'	2:AA:402:A:H8	2.08	0.56
2:AA:585:G:C2	2:AA:1251:C:N4	2.71	0.56
2:AA:612:G:N2	2:AA:617:G:O6	2.39	0.56
2:AA:679:C:O2	2:AA:680:G:C8	2.59	0.56
2:AA:987:G:C5	2:AA:988:A:C8	2.93	0.56
2:AA:1024:G:N7	2:AA:1025:G:N9	2.53	0.56
2:AA:1082:U:H3'	2:AA:1082:U:C6	2.41	0.56
2:AA:1085:A:H5'	9:AI:29:PHE:CB	2.35	0.56
2:AA:1233:C:H2'	2:AA:1234:U:C5'	2.35	0.56
2:AA:1327:C:C6	2:AA:1328:G:N7	2.74	0.56
2:AA:1335:U:O2'	2:AA:1336:A:H5'	2.06	0.56
2:AA:1369:G:H2'	2:AA:1370:C:O4'	2.06	0.56
2:AA:1466:G:H2'	2:AA:1547:C:N4	2.18	0.56
2:AA:1468:C:O2	2:AA:1468:C:C2'	2.54	0.56
2:AA:1604:C:O2	2:AA:1604:C:C2'	2.53	0.56
2:AA:1652:A:H2'	2:AA:1652:A:N3	2.19	0.56
2:AA:1685:C:C2'	2:AA:1686:C:H5'	2.35	0.56
2:AA:1703:G:C2	2:AA:1704:G:C4	2.94	0.56
2:AA:1707:G:C2	2:AA:1708:C:C4	2.94	0.56
2:AA:1765:C:H2'	2:AA:1766:U:H6	1.70	0.56
2:AA:1800:C:C2	2:AA:1817:G:N2	2.73	0.56
2:AA:1889:A:H4'	2:AA:2087:G:H5'	1.88	0.56
2:AA:1936:A:C5	2:AA:1945:G:C5	2.93	0.56
2:AA:1937:A:N7	2:AA:1939:U:C4	2.73	0.56
2:AA:1954:G:N2	2:AA:2551:C:H5''	2.20	0.56
2:AA:2023:G:H4'	2:AA:2618:G:OP1	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2043:C:N3	2:AA:2044:C:H5	2.04	0.56
2:AA:2081:C:C2	2:AA:2082:A:H8	2.24	0.56
2:AA:2212:A:N1	2:AA:2215:G:O4'	2.39	0.56
2:AA:2226:C:N4	2:AA:2227:A:N3	2.54	0.56
2:AA:2412:A:H8	2:AA:2412:A:O5'	1.89	0.56
2:AA:2414:G:N3	2:AA:2415:G:C8	2.74	0.56
2:AA:2623:G:H4'	2:AA:2826:A:C1'	2.35	0.56
2:AA:2631:G:H1'	2:AA:2892:A:H1'	1.88	0.56
2:AA:2714:G:O6	2:AA:2715:C:N4	2.38	0.56
2:AA:2740:A:C6	2:AA:2764:A:N9	2.74	0.56
2:AA:2761:G:HO2'	2:AA:2762:G:H5'	1.69	0.56
2:AA:2808:U:C2	2:AA:2892:A:C6	2.94	0.56
2:AA:2809:A:O4'	2:AA:2809:A:N3	2.38	0.56
2:AA:2824:C:N3	2:AA:2825:C:C1'	2.69	0.56
2:AA:2840:C:C4	2:AA:2841:C:C5	2.93	0.56
3:AC:42:GLU:OE2	3:AC:173:ALA:HA	2.06	0.56
3:AC:80:GLY:O	3:AC:83:ILE:N	2.39	0.56
3:AC:89:ALA:CA	3:AC:154:ARG:NH1	2.67	0.56
3:AC:114:VAL:CG1	3:AC:153:ILE:HG12	2.35	0.56
4:AD:186:LYS:C	4:AD:187:CYS:O	2.49	0.56
5:AE:99:VAL:C	5:AE:100:TRP:CG	2.84	0.56
5:AE:100:TRP:O	5:AE:102:ASP:N	2.39	0.56
5:AE:225:LYS:O	5:AE:226:HIS:ND1	2.39	0.56
6:AF:150:THR:O	6:AF:153:VAL:HB	2.06	0.56
7:AG:45:THR:CA	7:AG:83:PHE:CZ	2.89	0.56
7:AG:139:TYR:CE1	7:AG:156:ARG:HG3	2.40	0.56
9:AI:63:LEU:HD13	9:AI:66:PHE:CE1	2.41	0.56
9:AI:77:VAL:CG2	9:AI:102:ILE:HD11	2.34	0.56
10:AK:68:LEU:O	10:AK:72:LEU:HG	2.06	0.56
12:AM:21:ARG:HD2	12:AM:21:ARG:N	2.12	0.56
14:AO:125:PHE:N	14:AO:125:PHE:CD1	2.73	0.56
15:AP:47:GLU:N	15:AP:47:GLU:CD	2.64	0.56
16:AQ:24:LEU:O	16:AQ:25:ARG:C	2.48	0.56
17:AR:23:HIS:CE1	17:AR:24:LYS:O	2.59	0.56
18:AS:19:LEU:CB	29:A5:25:LEU:HG	2.36	0.56
20:AU:77:VAL:HG21	20:AU:91:LEU:HD13	1.87	0.56
21:AV:4:THR:O	21:AV:5:ALA:CB	2.54	0.56
21:AV:67:LYS:O	21:AV:67:LYS:HG3	2.05	0.56
21:AV:138:VAL:O	21:AV:140:LYS:HE3	2.06	0.56
21:AV:152:ILE:O	21:AV:153:LYS:HB2	2.05	0.56
23:AX:21:ALA:O	23:AX:25:ALA:CB	2.54	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:50:VAL:HG11	23:AX:53:LEU:HD12	1.88	0.56
25:A1:61:TRP:HZ3	25:A1:94:VAL:CA	2.18	0.56
25:A1:117:ARG:HD3	25:A1:118:GLN:HG2	1.88	0.56
27:A3:45:PHE:CE1	27:A3:78:PHE:CD2	2.94	0.56
31:A7:30:ILE:HD13	31:A7:33:ARG:NE	2.20	0.56
34:BA:16:A:H2'	34:BA:16:A:N3	2.20	0.56
34:BA:190:C:O2'	34:BA:190(A):C:C5'	2.54	0.56
34:BA:195:A:H5'	34:BA:195:A:C8	2.32	0.56
34:BA:196:A:H1'	34:BA:222:U:C1'	2.35	0.56
34:BA:204:U:H4'	34:BA:216:G:O4'	2.06	0.56
34:BA:247:G:H2'	34:BA:248:C:O5'	2.05	0.56
34:BA:301:G:C2	34:BA:302:G:C4	2.93	0.56
34:BA:412:A:H4'	34:BA:413:G:H8	1.71	0.56
34:BA:463:A:C1'	51:BS:82:GLN:NE2	2.69	0.56
34:BA:481:G:C4'	34:BA:482:A:OP1	2.46	0.56
34:BA:601:C:O2'	34:BA:602:A:H5'	2.05	0.56
34:BA:620:C:C4	39:BG:135:LEU:HD13	2.41	0.56
34:BA:771:G:O2'	34:BA:772:U:H5'	2.05	0.56
34:BA:900:A:H2'	34:BA:901:A:H8	1.71	0.56
34:BA:1125:U:C2'	34:BA:1126:U:OP2	2.53	0.56
34:BA:1126:U:C2'	34:BA:1127:G:O5'	2.54	0.56
34:BA:1154:G:C4	34:BA:1155:G:C8	2.92	0.56
34:BA:1188:A:C4	34:BA:1189:C:C6	2.94	0.56
34:BA:1319:A:H4'	54:BV:70:LYS:NZ	2.19	0.56
34:BA:1329:A:O2'	34:BA:1330:U:H5'	2.06	0.56
34:BA:1496:C:N4	34:BA:1497:G:C5	2.74	0.56
35:BC:19:G:C6	35:BC:57:G:N2	2.74	0.56
37:BE:19:HIS:O	37:BE:20:GLU:O	2.22	0.56
37:BE:44:LEU:O	37:BE:47:THR:N	2.39	0.56
37:BE:200:ILE:O	37:BE:202:PRO:CD	2.54	0.56
39:BG:54:TYR:C	39:BG:56:VAL:N	2.61	0.56
40:BH:101:ILE:HD13	40:BH:101:ILE:N	2.21	0.56
42:BJ:75:VAL:HG12	42:BJ:76:ARG:N	2.19	0.56
42:BJ:123:GLU:O	42:BJ:124:LEU:C	2.47	0.56
43:BK:85:ARG:C	43:BK:86:ILE:HD12	2.31	0.56
43:BK:97:VAL:HG13	43:BK:98:LYS:N	2.21	0.56
44:BL:115:GLY:O	44:BL:117:HIS:N	2.38	0.56
45:BM:15:THR:OG1	45:BM:94:VAL:CG2	2.53	0.56
47:BO:58:VAL:HG12	47:BO:60:LEU:CD1	2.36	0.56
47:BO:102:ARG:CB	47:BO:109:GLY:HA2	2.36	0.56
51:BS:58:TYR:HD1	51:BS:59:TRP:HA	1.71	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:51:TYR:CD1	52:BT:51:TYR:N	2.65	0.56
52:BT:59:ILE:HD12	52:BT:72:ARG:O	2.05	0.56
1:AB:82:G:O2'	1:AB:83:G:O5'	2.24	0.56
2:AA:139:G:H2'	2:AA:141(A):C:H2'	1.84	0.56
2:AA:154:G:N3	2:AA:155:C:C1'	2.68	0.56
2:AA:296:C:C2	2:AA:297:C:C5	2.93	0.56
2:AA:455:C:OP1	2:AA:472:A:N1	2.39	0.56
2:AA:514:A:H4'	25:A1:32:TYR:OH	2.06	0.56
2:AA:527:C:C6	2:AA:2779:U:C6	2.94	0.56
2:AA:588:U:C4	2:AA:589:C:H5	2.24	0.56
2:AA:650:C:OP1	32:A8:17:THR:OG1	2.24	0.56
2:AA:701:G:O2'	2:AA:702:G:H5'	2.04	0.56
2:AA:864:G:O2'	2:AA:865:C:C1'	2.54	0.56
2:AA:865:C:O2	2:AA:865:C:C2'	2.54	0.56
2:AA:928:G:N2	2:AA:929:G:N1	2.52	0.56
2:AA:1058:G:C2	9:AI:3:ILE:HD11	2.41	0.56
2:AA:1082:U:O5'	2:AA:1082:U:H6	1.89	0.56
2:AA:1085:A:C5'	9:AI:29:PHE:CG	2.88	0.56
2:AA:1105:U:O2'	9:AI:27:ASP:C	2.49	0.56
2:AA:1143:A:C4	2:AA:1144:G:C8	2.94	0.56
2:AA:1451:C:H5	2:AA:1453:A:O3'	1.88	0.56
2:AA:1455:G:C8	2:AA:1455:G:C3'	2.89	0.56
2:AA:1509:C:OP2	2:AA:1510:A:O4'	2.24	0.56
2:AA:1608:A:C8	2:AA:1611:C:C4	2.94	0.56
2:AA:1668:A:O2'	2:AA:1669:A:H5'	2.06	0.56
2:AA:1727:U:H2'	2:AA:1730:U:H3	1.71	0.56
2:AA:1809:A:H5''	2:AA:1810:A:N1	2.21	0.56
2:AA:1883:G:C4	2:AA:1884:A:C2	2.94	0.56
2:AA:1944:U:C4'	2:AA:1955:U:H1'	2.36	0.56
2:AA:1977:A:N3	2:AA:1978:A:C8	2.74	0.56
2:AA:1996:C:H5''	2:AA:1996:C:C6	2.33	0.56
2:AA:2023:G:N2	2:AA:2041:U:C2	2.74	0.56
2:AA:2033:A:C2	2:AA:2036:C:C5	2.94	0.56
2:AA:2033:A:OP2	2:AA:2033:A:O4'	2.24	0.56
2:AA:2144:U:OP2	2:AA:2144:U:C6	2.59	0.56
2:AA:2227:A:C6	2:AA:2228:G:C6	2.94	0.56
2:AA:2241:A:O2'	2:AA:2242:G:H5'	2.06	0.56
2:AA:2306:C:H42	7:AG:53:LYS:HD3	1.71	0.56
2:AA:2333:A:H1'	2:AA:2335:A:C6	2.41	0.56
2:AA:2469:A:C5	2:AA:2470:G:C8	2.93	0.56
2:AA:2503:A:H5'	2:AA:2504:U:P	2.46	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2509:G:H2'	2:AA:2510:C:C5'	2.36	0.56
2:AA:2680:C:OP2	5:AE:206:LYS:HD2	2.05	0.56
2:AA:2712:U:OP1	2:AA:2714:G:H4'	2.06	0.56
2:AA:2791:C:C2	2:AA:2805:G:N1	2.74	0.56
3:AC:77:ILE:HG22	3:AC:119:VAL:CG2	2.34	0.56
3:AC:104:LEU:HB2	3:AC:127:LEU:CD2	2.36	0.56
3:AC:120:MET:SD	3:AC:123:VAL:HB	2.46	0.56
4:AD:144:GLU:CB	4:AD:188:ARG:O	2.51	0.56
5:AE:77:PRO:O	5:AE:79:ARG:N	2.39	0.56
5:AE:81:VAL:CB	5:AE:100:TRP:HZ3	2.19	0.56
5:AE:301:PRO:O	5:AE:303:PRO:HD2	2.06	0.56
5:AE:317:PRO:C	5:AE:320:GLN:HG3	2.30	0.56
6:AF:5:ILE:O	6:AF:6:TYR:O	2.24	0.56
6:AF:81:PRO:O	6:AF:82:GLN:CG	2.54	0.56
7:AG:28:GLY:CA	7:AG:69:ILE:HG21	2.26	0.56
7:AG:60:GLU:O	7:AG:61:PHE:HB2	2.06	0.56
8:AH:26:LYS:HE3	8:AH:33:THR:HG23	1.88	0.56
8:AH:120:LEU:HD13	8:AH:143:LEU:CD1	2.34	0.56
9:AI:15:VAL:HG22	9:AI:48:ALA:HB3	1.88	0.56
9:AI:74:ILE:HG12	9:AI:92:VAL:HG11	1.88	0.56
9:AI:118:LEU:HB2	9:AI:125:VAL:CG2	2.35	0.56
10:AK:21:VAL:C	10:AK:26:ALA:HB2	2.31	0.56
11:AL:93:LYS:N	11:AL:96:ILE:HG13	2.20	0.56
12:AM:25:GLN:C	12:AM:27:ALA:N	2.59	0.56
12:AM:77:GLY:HA2	12:AM:80:LYS:CG	2.36	0.56
12:AM:134:GLU:O	12:AM:138:THR:HG23	2.06	0.56
13:AN:43:VAL:HG12	13:AN:54:LYS:HA	1.82	0.56
13:AN:79:PHE:C	13:AN:81:GLU:N	2.62	0.56
13:AN:105:GLU:O	13:AN:106:LEU:C	2.49	0.56
15:AP:139:ALA:O	15:AP:142:LYS:CB	2.46	0.56
16:AQ:103:ASP:OD2	16:AQ:103:ASP:O	2.23	0.56
16:AQ:124:ASP:O	16:AQ:126:GLY:N	2.39	0.56
18:AS:13:SER:O	18:AS:14:PRO:O	2.24	0.56
20:AU:18:GLU:O	20:AU:21:LYS:CB	2.54	0.56
20:AU:41:ARG:CB	20:AU:111:ARG:O	2.54	0.56
21:AV:46:GLN:HG3	21:AV:50:GLY:HA3	1.87	0.56
23:AX:11:SER:CB	23:AX:13:ILE:HG12	2.36	0.56
25:A1:99:ALA:HB2	25:A1:106:PHE:CD2	2.40	0.56
30:A6:29:ARG:O	30:A6:31:THR:N	2.39	0.56
32:A8:34:THR:C	32:A8:36:LYS:N	2.57	0.56
34:BA:91:C:N3	34:BA:92:C:C5	2.74	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:317:G:C2'	34:BA:318:G:O5'	2.54	0.56
34:BA:410:G:N3	34:BA:432:A:C6	2.73	0.56
34:BA:577:G:C2	34:BA:765:G:C2	2.94	0.56
34:BA:596:C:C4	34:BA:645:C:O2	2.59	0.56
34:BA:665:A:C2'	34:BA:725:G:H22	2.07	0.56
34:BA:864:A:C8	34:BA:864:A:H3'	2.41	0.56
34:BA:952:U:C5	48:BP:104:ARG:NH1	2.74	0.56
34:BA:1052:U:O3'	34:BA:1055:A:OP1	2.24	0.56
34:BA:1123:A:H2'	34:BA:1124:G:O4'	2.04	0.56
34:BA:1125:U:OP2	34:BA:1145:C:N4	2.39	0.56
34:BA:1295:G:N2	34:BA:1302:U:H3	2.04	0.56
34:BA:1319:A:N7	34:BA:1323:G:C5	2.74	0.56
34:BA:1373:G:C4'	42:BJ:36:LYS:HZ3	2.17	0.56
34:BA:1376:U:C2	34:BA:1377:A:N7	2.74	0.56
34:BA:1468:A:H8	34:BA:1468:A:O5'	1.89	0.56
34:BA:1534:A:P	34:BA:1535:C:C5	2.98	0.56
35:BB:37:G:C6	35:BB:38:A:N6	2.74	0.56
35:BC:51:G:C6	35:BC:64:A:N6	2.74	0.56
37:BE:88:ALA:HA	37:BE:222:ILE:HD11	1.88	0.56
37:BE:135:GLN:HB3	37:BE:139:LYS:CE	2.34	0.56
38:BF:112:SER:CB	38:BF:115:LEU:HB2	2.36	0.56
38:BF:112:SER:HB3	38:BF:115:LEU:HB2	1.88	0.56
39:BG:60:GLU:OE2	39:BG:199:ASN:O	2.23	0.56
39:BG:150:GLU:O	39:BG:153:ARG:HG3	2.06	0.56
40:BH:71:LEU:HD23	40:BH:75:THR:N	2.20	0.56
41:BI:96:PRO:HA	53:BU:32:ARG:HD2	1.87	0.56
42:BJ:45:ASP:O	42:BJ:48:LYS:HB2	2.06	0.56
42:BJ:115:ARG:HB2	42:BJ:118:VAL:CG2	2.35	0.56
45:BM:22:LYS:HZ3	45:BM:90:LEU:HB2	1.69	0.56
45:BM:26:ALA:HB1	45:BM:84:GLN:HB3	1.87	0.56
46:BN:122:LYS:O	46:BN:123:LYS:C	2.49	0.56
49:BQ:55:GLY:O	49:BQ:56:VAL:O	2.24	0.56
51:BS:22:THR:HG22	51:BS:32:TYR:CB	2.35	0.56
52:BT:59:ILE:O	52:BT:59:ILE:CG2	2.53	0.56
53:BU:52:PRO:O	53:BU:53:ARG:C	2.49	0.56
53:BU:67:ALA:HA	53:BU:70:ILE:CG1	2.36	0.56
54:BV:47:HIS:N	54:BV:62:ILE:HG22	2.21	0.56
55:BW:59:ALA:O	55:BW:62:LEU:N	2.39	0.56
1:AB:104:A:C2'	1:AB:105:G:H5'	2.36	0.55
1:AB:110:G:C6	1:AB:111:U:C2	2.93	0.55
2:AA:107:C:C2	2:AA:108:U:C5	2.95	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:115:C:O2	2:AA:116:C:C6	2.59	0.55
2:AA:225:A:H62	2:AA:419:C:H4'	1.68	0.55
2:AA:447:A:C6	2:AA:473:G:C8	2.93	0.55
2:AA:508:G:H4'	2:AA:509:C:H5''	1.88	0.55
2:AA:529:A:O4'	2:AA:529:A:OP2	2.24	0.55
2:AA:533:G:C5	2:AA:534:U:N3	2.74	0.55
2:AA:572:A:C8	2:AA:573:G:C4	2.94	0.55
2:AA:604:G:C2	2:AA:657:U:H4'	2.42	0.55
2:AA:684:G:N3	2:AA:775:G:C6	2.74	0.55
2:AA:701:G:N3	2:AA:702:G:C8	2.74	0.55
2:AA:716:A:H3'	2:AA:716:A:H8	1.71	0.55
2:AA:910:A:C2	2:AA:2264:C:O2	2.59	0.55
2:AA:980:A:C6	2:AA:1135:C:H4'	2.41	0.55
2:AA:1011:G:OP1	25:A1:75:ASN:HB3	2.05	0.55
2:AA:1024:G:H3'	2:AA:1024:G:C8	2.41	0.55
2:AA:1086:A:H3'	2:AA:1087:G:C5'	2.36	0.55
2:AA:1144:G:H2'	2:AA:1145:C:O4'	2.06	0.55
2:AA:1332:G:C4	2:AA:1609:A:C6	2.93	0.55
2:AA:1364:G:N2	2:AA:1366:A:H3'	2.20	0.55
2:AA:1365:A:OP2	2:AA:1809:A:N6	2.40	0.55
2:AA:1431:U:H2'	2:AA:1432:C:H6	1.70	0.55
2:AA:1441:G:H4'	2:AA:1628:G:OP1	2.06	0.55
2:AA:1453:A:O4'	2:AA:1453:A:OP2	2.23	0.55
2:AA:1498:C:C2	2:AA:1499:C:C4	2.94	0.55
2:AA:1509:C:OP1	2:AA:1510:A:H5''	2.06	0.55
2:AA:1554:A:O3'	2:AA:1555:G:C8	2.58	0.55
2:AA:1812:A:O2'	2:AA:1813:G:H5'	2.06	0.55
2:AA:1889:A:H1'	2:AA:2087:G:O4'	2.06	0.55
2:AA:1953:A:N3	2:AA:2560:C:H1'	2.21	0.55
2:AA:2051:A:C4'	5:AE:238:LEU:HD23	2.34	0.55
2:AA:2069:G:C5	2:AA:2443:C:N4	2.74	0.55
2:AA:2079:U:H3	2:AA:2241:A:H2	1.54	0.55
2:AA:2294:C:H2'	2:AA:2295:C:H5'	1.88	0.55
2:AA:2466:C:N4	2:AA:2467:C:C4	2.75	0.55
2:AA:2680:C:O2'	5:AE:48:MET:HE1	2.06	0.55
3:AC:148:ASN:ND2	3:AC:151:GLU:HB2	2.21	0.55
5:AE:66:GLU:O	5:AE:67:THR:CG2	2.48	0.55
5:AE:85:ALA:HB1	5:AE:87:GLU:HG3	1.85	0.55
5:AE:109:ASP:OD1	5:AE:112:LEU:HG	2.05	0.55
5:AE:201:VAL:N	5:AE:266:LYS:CD	2.61	0.55
5:AE:211:GLN:OE1	5:AE:216:ARG:N	2.39	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:11:HIS:CD2	7:AG:15:GLU:OE2	2.59	0.55
8:AH:18:VAL:CG2	8:AH:44:VAL:HG11	2.35	0.55
8:AH:51:VAL:CG2	8:AH:68:ARG:CG	2.83	0.55
8:AH:101:LYS:HG2	8:AH:115:GLU:CB	2.36	0.55
9:AJ:62:VAL:HA	9:AJ:100:ALA:O	2.07	0.55
10:AK:109:LYS:HE2	10:AK:109:LYS:N	2.20	0.55
10:AK:114:LYS:O	10:AK:115:ILE:O	2.23	0.55
13:AN:31:ARG:C	13:AN:32:TYR:CG	2.84	0.55
13:AN:65:THR:HA	13:AN:81:GLU:O	2.06	0.55
14:AO:73:VAL:HA	14:AO:76:LEU:CB	2.29	0.55
14:AO:106:VAL:O	14:AO:106:VAL:HG23	2.05	0.55
15:AP:28:ILE:CD1	15:AP:89:PRO:CG	2.81	0.55
15:AP:36:ASN:CB	21:AV:114:ASP:O	2.53	0.55
15:AP:45:GLN:HB3	15:AP:152:SER:HB3	1.87	0.55
15:AP:69:ASN:CG	15:AP:70:ARG:N	2.64	0.55
16:AQ:47:LEU:O	16:AQ:56:ASP:O	2.24	0.55
19:AT:33:SER:OG	19:AT:34:LYS:N	2.39	0.55
21:AV:37:LYS:C	21:AV:40:ASP:OD1	2.49	0.55
21:AV:50:GLY:O	21:AV:51:LEU:CB	2.55	0.55
21:AV:71:MET:C	21:AV:78:PRO:HA	2.31	0.55
21:AV:134:LEU:HD22	21:AV:136:VAL:HG23	1.88	0.55
24:A0:85:PRO:O	24:A0:86:ARG:C	2.48	0.55
25:A1:38:THR:O	25:A1:41:ASN:OD1	2.24	0.55
25:A1:49:ASP:C	25:A1:53:LYS:CE	2.78	0.55
25:A1:108:ALA:O	25:A1:109:LEU:C	2.49	0.55
27:A3:19:LYS:HD3	27:A3:21:LEU:CD2	2.34	0.55
28:A4:5:LEU:HD21	28:A4:9:ALA:CA	2.34	0.55
31:A7:21:ARG:HH22	31:A7:42:LEU:C	2.13	0.55
31:A7:30:ILE:CD1	31:A7:33:ARG:CZ	2.84	0.55
34:BA:145:G:N1	34:BA:178:C:C5	2.74	0.55
34:BA:295:C:C2	34:BA:296:U:C6	2.94	0.55
34:BA:329:A:C5	34:BA:332:G:C6	2.94	0.55
34:BA:577:G:N1	34:BA:765:G:C2	2.74	0.55
34:BA:607:A:O2'	34:BA:608:A:H5'	2.06	0.55
34:BA:682:G:C6	34:BA:683:G:N7	2.74	0.55
34:BA:718:G:C8	34:BA:719:C:C5	2.94	0.55
34:BA:806:C:N4	34:BA:807:A:H62	2.04	0.55
34:BA:855:G:O2'	34:BA:856:C:H5'	2.07	0.55
34:BA:909:A:N3	34:BA:910:C:O4'	2.40	0.55
34:BA:934:C:C5	34:BA:1344:C:C6	2.94	0.55
34:BA:942:G:C2	34:BA:943:U:C6	2.94	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:959:A:H1'	34:BA:985:C:H1'	1.87	0.55
34:BA:1071:C:N4	34:BA:1084:G:H21	2.04	0.55
34:BA:1161:C:H2'	34:BA:1162:C:C6	2.40	0.55
34:BA:1292:U:O2'	34:BA:1293:G:O4'	2.21	0.55
34:BA:1305:G:H5'	56:BX:4:GLY:CA	2.34	0.55
34:BA:1315:U:C5	34:BA:1316:G:C6	2.93	0.55
34:BA:1329:A:H5''	48:BP:29:ARG:CG	2.31	0.55
35:BB:7:U:H5'	35:BB:8:U:OP2	2.06	0.55
35:BB:50:U:N3	35:BB:65:G:N1	2.54	0.55
35:BC:44:A:H2'	35:BC:44:A:N3	2.19	0.55
36:B1:36:A:C4	36:B1:37:C:H1'	2.41	0.55
37:BE:28:PHE:CE1	37:BE:31:TYR:C	2.84	0.55
37:BE:167:PRO:CG	37:BE:192:SER:HB3	2.36	0.55
37:BE:196:LEU:HD12	37:BE:196:LEU:C	2.30	0.55
38:BF:139:GLN:HE21	38:BF:139:GLN:CA	2.04	0.55
39:BG:8:VAL:CG1	39:BG:11:LEU:CD1	2.75	0.55
39:BG:132:ARG:HH11	39:BG:132:ARG:CG	2.18	0.55
39:BG:157:LEU:O	39:BG:158:ILE:C	2.49	0.55
43:BK:69:ARG:HG2	43:BK:74:PRO:O	2.06	0.55
44:BL:3:GLN:HB2	44:BL:20:ARG:HG2	1.87	0.55
47:BO:43:VAL:CG1	47:BO:44:THR:N	2.69	0.55
47:BO:88:GLY:H	47:BO:98:TYR:HA	1.71	0.55
48:BP:48:LEU:CD2	48:BP:48:LEU:C	2.79	0.55
48:BP:120:LYS:HG2	48:BP:121:LYS:H	1.71	0.55
50:BR:33:THR:CG2	50:BR:63:ARG:NH1	2.59	0.55
51:BS:25:ARG:O	51:BS:26:ARG:C	2.49	0.55
1:AB:5:C:C2	1:AB:6:C:C5	2.94	0.55
2:AA:16:G:O6	2:AA:525:U:C4	2.60	0.55
2:AA:18:C:H4'	25:A1:23:GLY:O	2.06	0.55
2:AA:33:U:H2'	2:AA:34:C:OP2	2.07	0.55
2:AA:150:C:C4	2:AA:151:C:C5	2.94	0.55
2:AA:218:A:C8	2:AA:219:G:C8	2.94	0.55
2:AA:278:A:C6	2:AA:362:U:O4	2.59	0.55
2:AA:414:C:H1'	2:AA:1864:U:C1'	2.36	0.55
2:AA:593:G:O2'	2:AA:594:U:H5'	2.06	0.55
2:AA:629:G:O2'	2:AA:630:G:H5'	2.05	0.55
2:AA:664:C:H1'	2:AA:940:G:OP1	2.06	0.55
2:AA:783:A:H2'	2:AA:784:A:O5'	2.05	0.55
2:AA:814:C:OP2	26:A2:84:THR:HG22	2.05	0.55
2:AA:881:G:C4	2:AA:882:G:C8	2.94	0.55
2:AA:954:G:OP2	15:AP:10:ILE:HG22	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:987:G:C8	2:AA:987:G:H3'	2.42	0.55
2:AA:1162:G:O2'	26:A2:23:GLU:HB2	2.06	0.55
2:AA:1165:U:C2'	2:AA:1166:C:H6	2.18	0.55
2:AA:1275:A:HO2'	2:AA:1276:A:C5'	2.16	0.55
2:AA:1287:A:H8	24:A0:104:ARG:HG2	1.71	0.55
2:AA:1423:G:C2	2:AA:1424:G:C4	2.94	0.55
2:AA:1499:C:O2'	2:AA:1500:G:H5'	2.07	0.55
2:AA:1608:A:H2'	2:AA:1611:C:H41	1.71	0.55
2:AA:1614:A:C8	18:AS:88:ARG:HD2	2.40	0.55
2:AA:1693:U:O4	2:AA:1977:A:C5	2.58	0.55
2:AA:1717:G:C5	2:AA:1743:G:C6	2.94	0.55
2:AA:1754:C:C2	2:AA:2717:G:H5'	2.41	0.55
2:AA:1781:C:H5'	2:AA:1782:C:P	2.47	0.55
2:AA:1789:A:OP2	2:AA:1828:G:O6	2.23	0.55
2:AA:1807:G:C1'	2:AA:1811:G:H22	2.19	0.55
2:AA:1829:A:H5''	2:AA:1830:C:H5	1.71	0.55
2:AA:1832:C:C4	2:AA:1833:U:C4	2.94	0.55
2:AA:1859:A:C8	2:AA:1859:A:H3'	2.41	0.55
2:AA:1991:U:C2'	2:AA:1992:G:H5''	2.28	0.55
2:AA:2179:C:H3'	2:AA:2180:U:C5	2.42	0.55
2:AA:2206:C:C2'	2:AA:2207:C:H5'	2.37	0.55
2:AA:2305:A:N3	7:AG:129:ASP:OD1	2.38	0.55
2:AA:2349:G:C3'	2:AA:2350:C:H5''	2.35	0.55
2:AA:2509:G:C2'	2:AA:2510:C:C5'	2.82	0.55
2:AA:2592:G:N7	2:AA:2593:U:C5	2.75	0.55
2:AA:2605:U:O2	2:AA:2606:C:H5	1.88	0.55
2:AA:2607:G:C2'	2:AA:2608:G:C5'	2.79	0.55
2:AA:2631:G:N2	2:AA:2632:A:H1'	2.21	0.55
4:AD:65:ASP:CG	4:AD:66:PHE:N	2.63	0.55
4:AD:122:ASP:C	4:AD:124:LYS:N	2.46	0.55
5:AE:269:ILE:CA	5:AE:297:LYS:HZ3	2.09	0.55
7:AG:81:GLU:O	7:AG:85:GLN:HG2	2.06	0.55
7:AG:128:LEU:O	7:AG:129:ASP:CB	2.54	0.55
8:AH:16:VAL:O	8:AH:16:VAL:HG12	2.06	0.55
8:AH:52:THR:O	8:AH:53:ARG:HD3	2.06	0.55
8:AH:59:HIS:C	8:AH:61:ARG:N	2.59	0.55
8:AH:84:LYS:HE3	8:AH:141:GLY:HA2	1.88	0.55
8:AH:102:LEU:CD1	8:AH:114:ILE:HB	2.35	0.55
8:AH:163:TYR:O	8:AH:166:GLU:OE1	2.24	0.55
9:AI:62:VAL:HG22	9:AI:101:VAL:CA	2.35	0.55
10:AK:114:LYS:NZ	10:AK:133:LEU:CD2	2.69	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:116:LEU:HD13	11:AL:116:LEU:C	2.31	0.55
12:AM:54:VAL:CG1	12:AM:138:THR:OG1	2.54	0.55
13:AN:22:ILE:CD1	13:AN:41:ALA:HA	2.36	0.55
13:AN:34:ASN:C	13:AN:35:ILE:HD12	2.31	0.55
13:AN:121:VAL:C	13:AN:122:ILE:CD1	2.79	0.55
15:AP:36:ASN:CB	21:AV:114:ASP:OD1	2.52	0.55
15:AP:41:THR:HB	15:AP:126:VAL:HA	1.87	0.55
18:AS:19:LEU:HB3	29:A5:25:LEU:CD1	2.37	0.55
18:AS:23:LEU:HD12	29:A5:25:LEU:C	2.30	0.55
20:AU:51:LEU:CA	20:AU:97:ARG:HH21	2.03	0.55
21:AV:70:GLN:CG	21:AV:72:ASP:HB3	2.31	0.55
21:AV:103:ARG:NH1	21:AV:137:ASP:O	2.34	0.55
23:AX:6:VAL:O	23:AX:34:GLU:HA	2.06	0.55
27:A3:62:LEU:O	27:A3:63:SER:C	2.50	0.55
34:BA:22:G:H2'	34:BA:23:C:H6	1.57	0.55
34:BA:61:G:C8	34:BA:62:U:C5	2.94	0.55
34:BA:92:C:O2'	34:BA:93:G:C5'	2.52	0.55
34:BA:97:G:H2'	34:BA:98:U:C6	2.41	0.55
34:BA:130:A:H4'	34:BA:190(F):G:N3	2.20	0.55
34:BA:264:U:O2'	52:BT:63:ARG:HG2	2.06	0.55
34:BA:296:U:C5	34:BA:297:G:N7	2.75	0.55
34:BA:313:A:C4	34:BA:314:C:C5	2.94	0.55
34:BA:405:U:H5'	34:BA:496:A:H2	1.71	0.55
34:BA:426:G:H4'	39:BG:41:GLY:O	2.07	0.55
34:BA:519:C:OP2	47:BO:50:SER:O	2.24	0.55
34:BA:538:G:H5''	47:BO:114:LYS:HD3	1.88	0.55
34:BA:545:C:C2'	34:BA:546:G:H5'	2.34	0.55
34:BA:558:G:O5'	34:BA:559:A:H3'	2.06	0.55
34:BA:787:A:H2'	34:BA:788:U:O5'	2.06	0.55
34:BA:1007:C:C4	34:BA:1022:G:N2	2.74	0.55
34:BA:1047:G:C2'	34:BA:1048:G:H5'	2.35	0.55
34:BA:1049:U:O2'	34:BA:1050:G:OP2	2.23	0.55
34:BA:1084:G:H5'	34:BA:1102:A:OP2	2.06	0.55
34:BA:1160:G:O6	34:BA:1181:G:O6	2.24	0.55
34:BA:1301:U:C4	34:BA:1303:C:H1'	2.41	0.55
34:BA:1412:C:C2'	34:BA:1413:A:H8	2.19	0.55
34:BA:1451:A:C8	34:BA:1451:A:C3'	2.90	0.55
34:BA:1516:G:N2	34:BA:1518:A:OP2	2.38	0.55
35:BB:19:G:HO2'	35:BB:20:G:P	2.23	0.55
35:BB:34:G:N1	35:BB:35:A:N1	2.52	0.55
35:BC:20:G:H21	35:BC:21:A:C4'	2.20	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:18:GLY:HA3	37:BE:41:ILE:HG13	1.87	0.55
37:BE:169:LYS:C	37:BE:169:LYS:CD	2.79	0.55
38:BF:30:ARG:HG3	38:BF:31:HIS:H	1.70	0.55
38:BF:91:LEU:CD2	38:BF:92:ALA:N	2.68	0.55
38:BF:157:ILE:C	38:BF:159:GLY:H	2.12	0.55
38:BF:162:GLN:CD	38:BF:163:ALA:N	2.64	0.55
39:BG:18:LYS:CG	39:BG:33:MET:SD	2.92	0.55
39:BG:106:TYR:CD1	39:BG:111:ALA:O	2.59	0.55
39:BG:187:ARG:HH21	39:BG:188:LEU:HD11	1.71	0.55
39:BG:206:PHE:HD2	39:BG:207:TYR:CD1	2.25	0.55
40:BH:76:ILE:HG21	40:BH:142:LEU:HD21	1.86	0.55
41:BI:80:ARG:N	41:BI:88:VAL:HG21	2.21	0.55
43:BK:24:THR:H	43:BK:60:ARG:HD2	1.72	0.55
45:BM:28:ARG:CZ	45:BM:33:GLN:O	2.55	0.55
46:BN:23:ALA:HB3	46:BN:88:GLY:HA3	1.88	0.55
47:BO:28:LYS:CG	47:BO:33:ARG:HH12	2.20	0.55
50:BR:3:ILE:HG23	50:BR:38:ARG:NE	2.22	0.55
53:BU:72:ARG:HA	53:BU:75:ILE:HD13	1.89	0.55
55:BW:12:ALA:H	55:BW:13:LEU:CD1	2.17	0.55
55:BW:33:ILE:HG21	55:BW:63:ILE:HG13	1.87	0.55
1:AB:12:C:H5''	27:A3:53:MET:HE1	1.89	0.55
1:AB:79:C:N4	1:AB:97:G:H1	2.01	0.55
2:AA:49:A:H2	2:AA:118:A:N7	2.03	0.55
2:AA:84:A:H5'	2:AA:85:G:OP1	2.05	0.55
2:AA:152:G:O6	2:AA:175:G:N1	2.37	0.55
2:AA:245:G:O2'	2:AA:246:C:C5'	2.53	0.55
2:AA:249:C:O2'	32:A8:8:LYS:HE3	2.06	0.55
2:AA:270(S):G:N3	2:AA:270(T):G:N7	2.54	0.55
2:AA:272:G:N2	2:AA:366:C:C5	2.75	0.55
2:AA:276:A:H2'	2:AA:276:A:N3	2.21	0.55
2:AA:322:A:O2'	2:AA:340:A:H2'	2.05	0.55
2:AA:430:G:H8	2:AA:430:G:O5'	1.89	0.55
2:AA:513:A:C2	2:AA:514:A:C8	2.94	0.55
2:AA:552:G:C5	2:AA:553:U:C4	2.95	0.55
2:AA:552:G:H2'	2:AA:553:U:H6	1.72	0.55
2:AA:603:A:N6	2:AA:624:C:H42	2.04	0.55
2:AA:625:G:C2'	2:AA:626:U:H5'	2.36	0.55
2:AA:729:G:H8	2:AA:764:A:P	2.29	0.55
2:AA:979:G:C5	2:AA:981:A:OP2	2.59	0.55
2:AA:1000:A:C2	2:AA:1155:A:C4	2.94	0.55
2:AA:1058:G:C6	2:AA:1081:U:C2	2.94	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1314:C:H2'	2:AA:1315:C:H6	1.71	0.55
2:AA:1340:U:C2	2:AA:1602:U:C5	2.94	0.55
2:AA:1356:G:O2'	2:AA:1357:U:C5'	2.55	0.55
2:AA:1422:G:O6	2:AA:1576:U:O4	2.25	0.55
2:AA:1472:A:H2	2:AA:1519:G:H1	1.54	0.55
2:AA:1540:G:H2'	2:AA:1541:U:O5'	2.06	0.55
2:AA:1549:C:O2'	2:AA:1550:C:H5'	2.07	0.55
2:AA:1560:G:C2'	2:AA:1561:G:O5'	2.54	0.55
2:AA:1609:A:N6	2:AA:1616:A:H2	2.05	0.55
2:AA:1648:C:H2'	2:AA:1649:G:C8	2.41	0.55
2:AA:1665:A:C2	2:AA:1666:G:N9	2.75	0.55
2:AA:1669:A:O3'	2:AA:2550:G:P	2.64	0.55
2:AA:1699:G:O6	2:AA:1763:G:C4	2.60	0.55
2:AA:1958:C:O2'	2:AA:1959:G:C5'	2.53	0.55
2:AA:2069:G:C2	2:AA:2070:G:C8	2.95	0.55
2:AA:2131:G:OP2	3:AC:218:MET:HE1	2.07	0.55
2:AA:2183:C:C4	2:AA:2184:G:N7	2.74	0.55
2:AA:2190:G:H2'	2:AA:2191:G:H8	1.70	0.55
2:AA:2199:A:N3	2:AA:2225:A:C2	2.74	0.55
2:AA:2255:G:C2	2:AA:2256:G:C1'	2.87	0.55
2:AA:2280:G:N1	2:AA:2281:C:C4	2.74	0.55
2:AA:2285:C:OP2	30:A6:30:ASN:ND2	2.37	0.55
2:AA:2312:U:O2'	7:AG:72:LYS:NZ	2.39	0.55
2:AA:2328:A:N6	2:AA:2329:G:O6	2.39	0.55
2:AA:2350:C:C2'	2:AA:2351:G:O5'	2.54	0.55
2:AA:2359:C:C2	2:AA:2360:A:C2	2.94	0.55
2:AA:2448:A:OP1	2:AA:2499:C:OP1	2.25	0.55
2:AA:2491:U:O2'	2:AA:2492:U:C5'	2.53	0.55
2:AA:2515:C:N4	2:AA:2569:G:N1	1.91	0.55
2:AA:2646:C:C2'	2:AA:2647:U:H5'	2.36	0.55
2:AA:2674:G:C5	2:AA:2675:A:N7	2.75	0.55
2:AA:2758:A:H2'	2:AA:2759:G:O5'	2.06	0.55
2:AA:2862:G:C2'	2:AA:2863:C:C6	2.79	0.55
3:AC:99:ILE:HG23	3:AC:107:TRP:CH2	2.39	0.55
3:AC:126:LYS:CG	3:AC:127:LEU:HG	2.33	0.55
3:AC:139:ASN:HB3	3:AC:162:GLU:OE1	2.05	0.55
3:AC:177:LYS:HB2	3:AC:180:PHE:H	1.72	0.55
4:AD:210:LYS:CA	4:AD:213:LYS:HD3	2.37	0.55
5:AE:198:TYR:HD2	5:AE:265:ASN:CA	2.18	0.55
5:AE:216:ARG:NH1	5:AE:253:GLN:CB	2.64	0.55
6:AF:213:ALA:CB	6:AF:218:VAL:CG1	2.85	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:56:ARG:C	7:AG:63:ILE:HG13	2.32	0.55
8:AH:10:ILE:HD13	8:AH:16:VAL:HG21	1.86	0.55
8:AH:41:THR:C	8:AH:52:THR:OG1	2.49	0.55
8:AH:148:ARG:HD3	8:AH:163:TYR:CD2	2.40	0.55
9:AI:22:VAL:HA	9:AI:38:ALA:HB1	1.87	0.55
10:AK:114:LYS:HE2	10:AK:133:LEU:CA	2.34	0.55
12:AM:93:ARG:O	12:AM:94:GLY:C	2.47	0.55
13:AN:28:SER:O	13:AN:30:ARG:N	2.39	0.55
14:AO:52:LYS:CE	14:AO:53:ARG:NH1	2.70	0.55
14:AO:55:GLN:CG	14:AO:56:LYS:N	2.65	0.55
15:AP:46:VAL:CG2	15:AP:156:ASN:ND2	2.66	0.55
15:AP:47:GLU:OE2	15:AP:152:SER:CB	2.51	0.55
15:AP:57:ARG:HB2	15:AP:61:LEU:HD21	1.87	0.55
15:AP:64:ALA:HB1	15:AP:142:LYS:CG	2.36	0.55
15:AP:84:ARG:CZ	15:AP:86:ARG:HH21	2.19	0.55
16:AQ:17:ARG:CZ	16:AQ:106:LEU:CD2	2.84	0.55
16:AQ:34:LEU:HD23	16:AQ:100:ALA:HB1	1.86	0.55
17:AR:4:ARG:O	17:AR:5:GLU:HG3	2.06	0.55
18:AS:24:ILE:CD1	18:AS:36:LEU:HD11	2.37	0.55
19:AT:32:ALA:CB	19:AT:36:GLU:HB2	2.36	0.55
20:AU:4:PRO:O	20:AU:5:ASP:HB2	2.05	0.55
21:AV:116:VAL:CA	21:AV:169:VAL:HG22	2.37	0.55
23:AX:23:LEU:HD21	23:AX:50:VAL:HG11	1.88	0.55
23:AX:42:ALA:HB3	23:AX:43:ILE:HD12	1.89	0.55
24:A0:38:VAL:CB	24:A0:39:PRO:CD	2.78	0.55
25:A1:84:LYS:HE3	25:A1:92:ARG:NH2	2.22	0.55
25:A1:88:ILE:HD13	25:A1:88:ILE:N	2.22	0.55
25:A1:104:GLU:O	25:A1:107:LYS:N	2.39	0.55
26:A2:11:GLN:NE2	26:A2:22:VAL:HG23	2.22	0.55
26:A2:22:VAL:CG1	26:A2:23:GLU:N	2.68	0.55
32:A8:15:LYS:C	32:A8:22:VAL:HG22	2.31	0.55
34:BA:74:C:H2'	34:BA:75:G:H8	1.70	0.55
34:BA:410:G:H1'	34:BA:432:A:N6	2.17	0.55
34:BA:587:G:C6	34:BA:755:G:C6	2.94	0.55
34:BA:592:G:H2'	34:BA:593:G:H5'	1.89	0.55
34:BA:890:G:C2	34:BA:906:G:N7	2.74	0.55
34:BA:923:A:OP1	40:BH:21:ALA:CB	2.52	0.55
34:BA:923:A:H2'	34:BA:924:C:O4'	2.07	0.55
34:BA:932:C:H5''	42:BJ:3:ARG:CD	2.31	0.55
34:BA:962:C:C2'	34:BA:963:G:H5'	2.37	0.55
34:BA:1286:A:H2'	34:BA:1287:A:O5'	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1296:C:H3'	34:BA:1297:C:C5	2.40	0.55
34:BA:1305:G:H22	34:BA:1331:G:H2'	1.71	0.55
34:BA:1305:G:OP1	56:BX:2:GLY:N	2.39	0.55
34:BA:1308:U:C2	34:BA:1309:G:C8	2.94	0.55
34:BA:1321:C:N4	54:BV:37:ARG:NH1	2.54	0.55
34:BA:1342:C:H4'	44:BL:125:TYR:CD1	2.41	0.55
34:BA:1376:U:H2'	34:BA:1377:A:C8	2.42	0.55
34:BA:1464:G:H2'	34:BA:1465:C:H6	1.72	0.55
34:BA:1530:G:N2	34:BA:1531:A:C2	2.74	0.55
35:BB:15:G:O6	35:BB:48:C:O2	2.24	0.55
35:BC:69:U:O2'	35:BC:70:C:C5'	2.53	0.55
37:BE:21:ARG:CD	37:BE:21:ARG:N	2.59	0.55
37:BE:21:ARG:O	37:BE:23:ARG:N	2.40	0.55
37:BE:70:PHE:CE2	37:BE:163:PHE:CB	2.88	0.55
37:BE:88:ALA:CA	37:BE:222:ILE:CD1	2.83	0.55
37:BE:91:PRO:CG	37:BE:154:LEU:HB3	2.35	0.55
38:BF:125:GLU:OE2	38:BF:125:GLU:HA	2.06	0.55
40:BH:9:LYS:HB2	40:BH:33:VAL:HB	1.86	0.55
41:BI:10:LEU:HD11	41:BI:61:LEU:HD12	1.89	0.55
41:BI:62:TRP:CZ2	41:BI:64:GLN:HB2	2.41	0.55
42:BJ:6:ARG:O	42:BJ:6:ARG:HG2	2.06	0.55
43:BK:11:THR:C	43:BK:13:ILE:H	2.15	0.55
43:BK:24:THR:O	43:BK:60:ARG:CB	2.54	0.55
43:BK:26:VAL:N	43:BK:58:TYR:CE2	2.75	0.55
43:BK:40:ALA:C	43:BK:42:GLU:H	2.14	0.55
43:BK:78:GLN:OE1	43:BK:78:GLN:HA	2.07	0.55
44:BL:24:GLY:C	44:BL:25:LYS:HG3	2.31	0.55
47:BO:79:GLU:HB3	47:BO:80:HIS:ND1	2.20	0.55
47:BO:113:ARG:NH1	47:BO:115:LYS:HB2	2.22	0.55
52:BT:96:GLN:OE1	52:BT:97:SER:N	2.39	0.55
54:BV:72:GLY:C	54:BV:74:PHE:H	2.15	0.55
1:AB:33:G:H1	1:AB:49:C:N4	2.05	0.55
1:AB:49:C:OP1	16:AQ:110:THR:OG1	2.24	0.55
2:AA:19:C:N3	2:AA:20:C:C5	2.75	0.55
2:AA:64:A:C8	2:AA:64:A:O5'	2.59	0.55
2:AA:146:G:N2	2:AA:147:U:H1'	2.21	0.55
2:AA:179:G:C4	2:AA:180:G:N7	2.74	0.55
2:AA:185:U:C2	2:AA:212:G:N2	2.74	0.55
2:AA:242:G:O2'	2:AA:243:U:P	2.64	0.55
2:AA:270(A):A:H62	2:AA:270(Z):U:C5'	2.06	0.55
2:AA:270(D):C:N3	2:AA:270(E):G:C5	2.74	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:285:C:H2'	2:AA:286:C:C6	2.40	0.55
2:AA:479:A:O2'	2:AA:480:A:C3'	2.54	0.55
2:AA:730:C:OP2	2:AA:761:A:OP1	2.25	0.55
2:AA:735:A:N6	2:AA:760:G:H22	2.04	0.55
2:AA:751:A:C8	18:AS:90:ARG:NH2	2.74	0.55
2:AA:819:A:H2'	2:AA:820:A:O5'	2.06	0.55
2:AA:856:C:H5'	27:A3:25:LYS:CE	2.36	0.55
2:AA:929:G:H1'	23:AX:43:ILE:CG1	2.36	0.55
2:AA:1012:U:H2'	2:AA:1142:U:C5	2.40	0.55
2:AA:1124:C:N4	2:AA:1125:G:C6	2.75	0.55
2:AA:1137:G:H21	12:AM:86:MET:HE1	1.72	0.55
2:AA:1163:G:C5'	26:A2:23:GLU:OE2	2.55	0.55
2:AA:1195:G:C1'	2:AA:1226:G:H22	2.19	0.55
2:AA:1222:C:H2'	2:AA:1223:C:C5'	2.36	0.55
2:AA:1252:G:H3'	2:AA:1253:A:C1'	2.37	0.55
2:AA:1263:U:H5'	2:AA:1264:G:OP2	2.06	0.55
2:AA:1312:U:C1'	2:AA:1313:U:C5	2.90	0.55
2:AA:1529:A:C2'	2:AA:1530:G:H5'	2.35	0.55
2:AA:1540:G:C2	2:AA:1541:U:H1'	2.42	0.55
2:AA:1552:G:C5'	2:AA:1553:A:OP1	2.53	0.55
2:AA:1617:C:C5'	2:AA:1618:A:OP2	2.42	0.55
2:AA:1709:U:H6	2:AA:1709:U:H3'	1.72	0.55
2:AA:1749:A:C2'	2:AA:1750:G:H5'	2.36	0.55
2:AA:1773:A:OP1	2:AA:1828:G:H3'	2.05	0.55
2:AA:1796:U:H2'	2:AA:1797:C:C6	2.41	0.55
2:AA:1939:U:O4'	2:AA:2592:G:C4'	2.54	0.55
2:AA:1992:G:O6	2:AA:1997:G:C2	2.59	0.55
2:AA:2034:U:O2	2:AA:2034:U:H2'	2.05	0.55
2:AA:2081:C:C2	2:AA:2082:A:C8	2.94	0.55
2:AA:2139:C:O2	2:AA:2139:C:H2'	2.06	0.55
2:AA:2142:C:O2	2:AA:2142:C:C2'	2.54	0.55
2:AA:2210:G:O6	4:AD:148:GLY:CA	2.55	0.55
2:AA:2261:C:H1'	2:AA:2388:A:N3	2.21	0.55
2:AA:2287:A:C2	2:AA:2346:A:N7	2.75	0.55
2:AA:2386:C:O2'	2:AA:2387:U:O5'	2.23	0.55
2:AA:2400:G:C2	2:AA:2417:C:C2	2.95	0.55
2:AA:2525:G:N1	2:AA:2539:C:N4	2.55	0.55
2:AA:2671:A:O2'	2:AA:2672:G:H5'	2.07	0.55
2:AA:2769:C:O2'	2:AA:2770:G:H5'	2.06	0.55
2:AA:2817:G:H1	2:AA:2829:C:N4	2.04	0.55
2:AA:2824:C:N3	2:AA:2825:C:H1'	2.22	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:158:GLY:HA2	4:AD:194:VAL:HG22	1.88	0.55
5:AE:109:ASP:CG	5:AE:112:LEU:CG	2.79	0.55
6:AF:31:ILE:O	6:AF:35:VAL:HG23	2.05	0.55
7:AG:63:ILE:HG23	7:AG:64:ARG:N	2.20	0.55
7:AG:77:ASP:O	7:AG:80:ALA:HB3	2.06	0.55
8:AH:36:PHE:CD2	8:AH:71:LEU:HD21	2.41	0.55
10:AK:88:ARG:HE	10:AK:123:ALA:CB	2.18	0.55
10:AK:95:SER:OG	10:AK:98:ILE:HB	2.07	0.55
11:AL:52:MET:SD	11:AL:81:LYS:HG2	2.46	0.55
11:AL:93:LYS:HD2	21:AV:108:VAL:HG12	1.88	0.55
12:AM:19:MET:HE1	12:AM:22:VAL:HG11	1.88	0.55
12:AM:58:GLU:HA	12:AM:61:VAL:CB	2.24	0.55
12:AM:138:THR:OG1	12:AM:139:LEU:HD13	2.06	0.55
13:AN:26:GLY:HA3	13:AN:30:ARG:NE	2.21	0.55
14:AO:94:ARG:C	14:AO:120:LEU:HD13	2.31	0.55
15:AP:17:ARG:O	15:AP:23:ILE:HG13	2.07	0.55
15:AP:101:MET:SD	15:AP:101:MET:C	2.89	0.55
16:AQ:89:GLY:O	16:AQ:92:ALA:HB3	2.06	0.55
17:AR:45:GLU:CG	17:AR:48:ASN:OD1	2.47	0.55
20:AU:16:LEU:O	20:AU:19:ARG:N	2.39	0.55
20:AU:59:GLU:O	20:AU:59:GLU:HG3	2.06	0.55
20:AU:71:VAL:CG2	20:AU:91:LEU:O	2.54	0.55
20:AU:77:VAL:CG1	20:AU:89:ARG:HH11	2.19	0.55
20:AU:105:ASP:HB2	20:AU:108:ARG:HG3	1.88	0.55
20:AU:112:LEU:HD23	20:AU:112:LEU:N	2.22	0.55
21:AV:37:LYS:CD	21:AV:41:ARG:HH12	2.19	0.55
21:AV:64:ALA:O	21:AV:65:LEU:CB	2.55	0.55
21:AV:125:PRO:CG	21:AV:130:ILE:HG22	2.36	0.55
22:AW:43:PRO:O	22:AW:45:ARG:N	2.40	0.55
23:AX:6:VAL:HA	23:AX:55:ARG:O	2.05	0.55
23:AX:8:LEU:C	23:AX:54:VAL:HG12	2.30	0.55
24:A0:45:ARG:HD3	24:A0:97:VAL:HG21	1.87	0.55
24:A0:72:ASP:CG	24:A0:74:LYS:HD3	2.30	0.55
25:A1:13:ARG:CD	25:A1:16:LYS:HZ3	2.11	0.55
26:A2:5:ILE:O	26:A2:6:GLN:CB	2.54	0.55
30:A6:42:PRO:HB2	30:A6:44:ALA:H	1.71	0.55
31:A7:32:ALA:O	31:A7:33:ARG:C	2.49	0.55
34:BA:106:C:H2'	34:BA:107:G:H8	1.71	0.55
34:BA:281:G:C2'	34:BA:282:A:OP2	2.55	0.55
34:BA:404:U:O5'	34:BA:404:U:H6	1.90	0.55
34:BA:463:A:H5''	51:BS:75:ARG:HH12	1.72	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:591:U:O5'	34:BA:591:U:H6	1.89	0.55
34:BA:754:C:H2'	34:BA:755:G:OP1	2.06	0.55
34:BA:814:A:C8	34:BA:816:A:N7	2.75	0.55
34:BA:934:C:H5	34:BA:1344:C:H3'	1.70	0.55
34:BA:1048:G:H5''	49:BQ:3:ARG:CD	2.37	0.55
34:BA:1053:G:C6	34:BA:1199:U:H2'	2.42	0.55
34:BA:1150:U:C4'	34:BA:1280:A:N1	2.70	0.55
34:BA:1316:G:C4	34:BA:1318:A:OP2	2.59	0.55
34:BA:1350:A:OP2	44:BL:118:LYS:HD3	2.05	0.55
34:BA:1423:G:O2'	34:BA:1424:C:C5'	2.54	0.55
34:BA:1443:G:C4'	34:BA:1446:A:H5'	2.36	0.55
34:BA:1535:C:N3	36:B1:55:U:C4	2.74	0.55
35:BB:15:G:N2	35:BB:48:C:H42	2.01	0.55
35:BB:21:A:C5	35:BB:46:G:N1	2.75	0.55
35:BC:38:A:C2'	35:BC:39:U:H5'	2.32	0.55
37:BE:103:THR:OG1	37:BE:180:LEU:HD11	2.07	0.55
38:BF:48:TYR:HA	38:BF:52:LEU:CD2	2.36	0.55
38:BF:58:GLU:HB2	38:BF:65:ALA:HB3	1.88	0.55
38:BF:83:ARG:C	38:BF:85:ARG:N	2.62	0.55
38:BF:122:GLU:O	38:BF:123:GLN:C	2.48	0.55
39:BG:61:LYS:HG3	39:BG:206:PHE:CD2	2.42	0.55
39:BG:133:VAL:HG13	39:BG:135:LEU:HD12	1.88	0.55
39:BG:150:GLU:O	39:BG:152:SER:N	2.39	0.55
41:BI:1:MET:HG2	41:BI:68:PRO:HA	1.89	0.55
41:BI:33:TYR:CE2	41:BI:75:LEU:HB2	2.41	0.55
41:BI:78:GLU:O	41:BI:81:ILE:CD1	2.55	0.55
43:BK:77:GLU:O	43:BK:78:GLN:HG2	2.07	0.55
44:BL:7:THR:H	44:BL:83:ARG:CG	2.19	0.55
44:BL:93:ARG:C	44:BL:95:LYS:H	2.15	0.55
45:BM:38:ILE:HG12	45:BM:72:VAL:H	1.72	0.55
46:BN:58:PRO:O	46:BN:61:ALA:CB	2.48	0.55
47:BO:36:VAL:O	47:BO:58:VAL:CG1	2.47	0.55
47:BO:82:VAL:O	47:BO:83:VAL:HB	2.06	0.55
49:BQ:12:ARG:C	49:BQ:14:PRO:N	2.64	0.55
50:BR:33:THR:O	50:BR:36:ILE:HG22	2.07	0.55
51:BS:5:ARG:CA	51:BS:6:LEU:HD13	2.36	0.55
53:BU:67:ALA:O	53:BU:68:LYS:C	2.49	0.55
53:BU:74:ARG:CA	53:BU:79:LEU:HD21	2.35	0.55
54:BV:11:VAL:HG22	54:BV:39:THR:O	2.06	0.55
55:BW:20:LEU:O	55:BW:24:LEU:HD23	2.06	0.55
55:BW:94:ALA:O	55:BW:95:ALA:HB3	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:12:C:C5'	27:A3:53:MET:HE1	2.36	0.55
1:AB:30:C:O4'	1:AB:58:A:C2	2.60	0.55
1:AB:99:A:H5''	1:AB:99:A:C8	2.41	0.55
2:AA:66:C:H5'	2:AA:456:C:O2'	2.07	0.55
2:AA:95:G:H1'	22:AW:42:ASN:HB3	1.89	0.55
2:AA:99:U:O2	2:AA:99:U:H2'	2.06	0.55
2:AA:196:A:O2'	2:AA:197:A:P	2.64	0.55
2:AA:206:U:OP2	2:AA:206:U:C5	2.59	0.55
2:AA:270(D):C:C2	2:AA:270(E):G:C8	2.95	0.55
2:AA:270(Q):C:N1	2:AA:270(R):G:H8	2.05	0.55
2:AA:500:G:H2'	2:AA:502:A:OP2	2.06	0.55
2:AA:594:U:H5''	32:A8:61:MET:CE	2.36	0.55
2:AA:611:C:C2'	2:AA:616:A:H2	2.20	0.55
2:AA:623:G:C8	2:AA:624:C:H5	2.25	0.55
2:AA:724:U:O2	2:AA:724:U:C2'	2.52	0.55
2:AA:752:A:C6	2:AA:1781:C:C1'	2.79	0.55
2:AA:852:G:O6	2:AA:926:A:C6	2.60	0.55
2:AA:1142:U:C6	2:AA:142(A):A:C5'	2.78	0.55
2:AA:1378:A:H4'	2:AA:1379:A:OP1	2.05	0.55
2:AA:1426:G:H3'	2:AA:1427:A:H8	1.70	0.55
2:AA:1520:U:H3'	2:AA:1521:G:H5''	1.88	0.55
2:AA:1646:C:C3'	2:AA:1647:G:H5'	2.36	0.55
2:AA:1670:C:OP2	2:AA:1671:U:C5	2.59	0.55
2:AA:1670:C:C5	2:AA:1671:U:C5	2.93	0.55
2:AA:1799:G:C4	2:AA:1819:A:N6	2.75	0.55
2:AA:2124:G:O5'	3:AC:133:PRO:HB3	2.07	0.55
2:AA:2190:G:C2	2:AA:2191:G:C8	2.94	0.55
2:AA:2212:A:O2'	2:AA:2213:U:C5	2.59	0.55
2:AA:2255:G:C6	2:AA:2256:G:C4	2.94	0.55
2:AA:2423:U:O2'	2:AA:2425:A:H3'	2.06	0.55
2:AA:2469:A:C8	2:AA:2469:A:C5'	2.82	0.55
2:AA:2479:G:OP1	2:AA:2537:U:C4'	2.55	0.55
2:AA:2514:U:O4'	5:AE:247:ARG:NH1	2.39	0.55
2:AA:2531:A:C2'	2:AA:2532:G:H5'	2.37	0.55
2:AA:2599:G:C4	2:AA:2600:A:C8	2.94	0.55
2:AA:2739:U:H2'	2:AA:2740:A:O5'	2.07	0.55
2:AA:2790:A:H5'	2:AA:2791:C:OP1	2.06	0.55
4:AD:77:VAL:HA	4:AD:93:ILE:CD1	2.37	0.55
4:AD:78:ALA:HA	4:AD:113:MET:SD	2.46	0.55
4:AD:175:LEU:HD21	4:AD:181:ARG:N	2.21	0.55
5:AE:175:ASP:HA	5:AE:178:LEU:CG	2.32	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:198:TYR:HA	5:AE:266:LYS:O	2.05	0.55
5:AE:201:VAL:CG1	5:AE:310:PHE:O	2.38	0.55
5:AE:222:ARG:NH2	5:AE:234:ARG:CB	2.65	0.55
6:AF:56:THR:CB	6:AF:57:PRO:CD	2.84	0.55
7:AG:23:VAL:HG12	7:AG:130:VAL:CG1	2.36	0.55
7:AG:69:ILE:CG2	7:AG:69:ILE:O	2.54	0.55
7:AG:71:ALA:O	7:AG:72:LYS:CD	2.53	0.55
7:AG:93:LEU:CB	7:AG:97:GLN:HE22	2.19	0.55
8:AH:86:LEU:CD2	8:AH:148:ARG:HE	2.19	0.55
9:AI:80:ILE:HG22	9:AI:81:THR:N	2.20	0.55
9:AJ:34:ALA:O	9:AJ:35:ALA:HB2	2.06	0.55
12:AM:69:TYR:HD2	12:AM:71:TYR:CE1	2.25	0.55
16:AQ:126:GLY:O	16:AQ:127:LEU:C	2.50	0.55
17:AR:47:ARG:O	17:AR:48:ASN:OD1	2.25	0.55
18:AS:40:ASN:HD22	18:AS:41:LYS:CG	2.19	0.55
19:AT:55:GLN:HG2	19:AT:56:ASN:H	1.69	0.55
20:AU:44:ALA:HB1	20:AU:65:VAL:CG1	2.37	0.55
20:AU:54:ASP:C	20:AU:56:ALA:H	2.14	0.55
21:AV:1:MET:H2	21:AV:54:ILE:HD11	1.71	0.55
21:AV:25:ASN:O	21:AV:26:LYS:O	2.25	0.55
21:AV:70:GLN:O	21:AV:72:ASP:OD2	2.23	0.55
25:A1:8:ILE:HA	25:A1:11:ARG:HH11	1.72	0.55
25:A1:33:ARG:O	25:A1:34:ASN:C	2.50	0.55
25:A1:40:LEU:HD11	26:A2:83:ARG:HE	1.68	0.55
25:A1:61:TRP:O	25:A1:63:GLN:N	2.40	0.55
27:A3:33:ALA:HB3	27:A3:66:LYS:O	2.05	0.55
27:A3:48:GLY:N	27:A3:49:GLN:NE2	2.55	0.55
29:A5:12:SER:HB3	29:A5:15:LYS:NZ	2.20	0.55
30:A6:16:ALA:HB2	30:A6:50:PHE:CE2	2.41	0.55
30:A6:21:TYR:C	30:A6:22:TYR:CD1	2.85	0.55
34:BA:67:C:C1'	34:BA:172:A:H1'	2.37	0.55
34:BA:124:G:C6	34:BA:125:U:N3	2.74	0.55
34:BA:166:G:C2'	34:BA:167:G:O5'	2.54	0.55
34:BA:315:A:C2'	34:BA:316:G:OP2	2.54	0.55
34:BA:350:G:N1	34:BA:351:G:N1	2.55	0.55
34:BA:393:A:OP2	51:BS:12:LYS:HD3	2.07	0.55
34:BA:453:A:C2	34:BA:454:C:C2	2.94	0.55
34:BA:463:A:C1'	51:BS:82:GLN:HE21	2.14	0.55
34:BA:495:U:H2'	34:BA:496:A:O5'	2.07	0.55
34:BA:609:A:N3	34:BA:610:G:C1'	2.69	0.55
34:BA:698:G:O2'	34:BA:699:C:C5'	2.54	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:714:G:N3	34:BA:777:A:C8	2.75	0.55
34:BA:716:A:H1'	46:BN:118:GLY:HA2	1.89	0.55
34:BA:761:G:C5'	52:BT:103:GLY:N	2.69	0.55
34:BA:897:C:O2	34:BA:903:G:C2	2.59	0.55
34:BA:972:C:H2'	34:BA:973:G:H8	1.71	0.55
34:BA:979:C:OP1	34:BA:1222:G:O6	2.25	0.55
34:BA:1336:C:O2'	34:BA:1337:G:OP2	2.23	0.55
34:BA:1509:C:O2	34:BA:1509:C:H2'	2.04	0.55
35:BC:36:A:H61	36:B1:60:A:H61	1.54	0.55
36:B1:14:U:H2'	36:B1:15:A:O4'	2.06	0.55
37:BE:70:PHE:HD1	37:BE:90:MET:HB2	1.70	0.55
37:BE:87:ARG:O	37:BE:89:GLY:N	2.39	0.55
37:BE:160:ASP:O	37:BE:161:ALA:HB2	2.05	0.55
37:BE:192:SER:C	37:BE:194:PRO:HD2	2.31	0.55
38:BF:12:LEU:HD22	38:BF:16:ARG:O	2.07	0.55
38:BF:20:SER:HG	38:BF:36:ASP:CG	2.14	0.55
38:BF:29:TYR:HE2	38:BF:33:LEU:CD1	2.20	0.55
39:BG:19:LEU:H	39:BG:33:MET:CE	2.19	0.55
39:BG:128:VAL:HB	39:BG:132:ARG:HA	1.88	0.55
39:BG:153:ARG:HA	39:BG:158:ILE:HG21	1.87	0.55
40:BH:21:ALA:C	40:BH:23:GLY:H	2.14	0.55
42:BJ:111:ARG:CZ	42:BJ:122:HIS:CB	2.85	0.55
43:BK:6:ILE:CD1	43:BK:85:ARG:CD	2.78	0.55
47:BO:101:VAL:O	47:BO:104:VAL:HB	2.06	0.55
47:BO:120:TYR:O	47:BO:121:GLY:C	2.49	0.55
48:BP:24:GLY:HA3	48:BP:66:LEU:CG	2.36	0.55
50:BR:87:ILE:N	50:BR:87:ILE:CD1	2.69	0.55
52:BT:11:VAL:HG22	52:BT:20:THR:HB	1.88	0.55
53:BU:63:GLN:CA	53:BU:66:LEU:HD21	2.35	0.55
53:BU:74:ARG:HA	53:BU:79:LEU:HD22	1.88	0.55
55:BW:36:LEU:O	55:BW:39:LYS:HB3	2.06	0.55
55:BW:46:GLU:HB2	55:BW:48:LYS:CE	2.36	0.55
55:BW:53:LEU:HA	55:BW:56:MET:HG3	1.87	0.55
55:BW:76:ALA:C	55:BW:78:ALA:N	2.62	0.55
1:AB:13:A:OP1	27:A3:53:MET:HE1	2.07	0.55
1:AB:42:C:H5'	7:AG:48:MET:HB2	1.88	0.55
2:AA:8:A:N3	2:AA:9:U:C6	2.74	0.55
2:AA:18:C:O5'	2:AA:18:C:H6	1.89	0.55
2:AA:66:C:N3	2:AA:88:G:O6	2.40	0.55
2:AA:188:G:C2'	2:AA:189:G:H5'	2.37	0.55
2:AA:270(E):G:N2	2:AA:270(U):C:C2	2.65	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:302:C:C2	2:AA:303:U:C5	2.95	0.55
2:AA:410:G:H8	2:AA:410:G:O5'	1.89	0.55
2:AA:414:C:C2'	2:AA:1864:U:HO2'	2.20	0.55
2:AA:441:U:H5	20:AU:3:GLN:NE2	2.04	0.55
2:AA:533:G:H2'	2:AA:534:U:O4'	2.07	0.55
2:AA:552:G:C6	2:AA:553:U:C4	2.95	0.55
2:AA:564:C:H5	2:AA:573:G:OP1	1.89	0.55
2:AA:619:G:C8	2:AA:619:G:H3'	2.41	0.55
2:AA:675:A:N6	2:AA:804:A:C4	2.74	0.55
2:AA:743:G:O2'	2:AA:744:G:C5'	2.54	0.55
2:AA:823:G:C4	2:AA:824:A:N7	2.75	0.55
2:AA:979:G:N2	2:AA:985:C:C4	2.74	0.55
2:AA:996:A:N3	2:AA:997:G:C8	2.75	0.55
2:AA:1042:G:H1	2:AA:1113:U:H3	1.55	0.55
2:AA:1078:U:P	11:AL:93:LYS:HG3	2.47	0.55
2:AA:1128:A:OP2	2:AA:1128:A:O4'	2.23	0.55
2:AA:1168:G:H2'	2:AA:1169:G:H5'	1.88	0.55
2:AA:1227:A:P	25:A1:16:LYS:HE2	2.47	0.55
2:AA:1398:C:H4'	19:AT:23:LYS:HZ1	1.71	0.55
2:AA:1502:C:O2'	2:AA:1503:U:H5'	2.06	0.55
2:AA:1534:G:H21	2:AA:1536:A:C1'	2.20	0.55
2:AA:1614:A:H61	18:AS:88:ARG:N	2.04	0.55
2:AA:1657:C:C4	2:AA:1658:C:H5	2.24	0.55
2:AA:1743:G:H2'	2:AA:1746:G:O4'	2.06	0.55
2:AA:1753:G:C8	2:AA:1753:G:C3'	2.89	0.55
2:AA:1799:G:N2	2:AA:1819:A:OP2	2.39	0.55
2:AA:1805:U:OP2	2:AA:1805:U:H3'	2.05	0.55
2:AA:1909:C:O2'	2:AA:1910:G:H5'	2.07	0.55
2:AA:1942:C:H3'	2:AA:1942:C:P	2.46	0.55
2:AA:1964:G:N1	2:AA:1967:C:C5	2.75	0.55
2:AA:1996:C:OP2	13:AN:31:ARG:NH2	2.39	0.55
2:AA:2052:G:C5'	5:AE:239:GLY:H	2.13	0.55
2:AA:2096:U:C2	2:AA:2097:C:C5	2.95	0.55
2:AA:2133:G:N3	2:AA:2133:G:H3'	2.22	0.55
2:AA:2187:G:H2'	2:AA:2188:C:C6	2.42	0.55
2:AA:2332:U:C1'	2:AA:2336:A:N6	2.69	0.55
2:AA:2468:G:C8	2:AA:2476:A:N1	2.75	0.55
2:AA:2558:C:C2	2:AA:2559:C:C5	2.94	0.55
2:AA:2627:G:C2	2:AA:2628:C:C2	2.94	0.55
2:AA:2633:G:N1	2:AA:2634:G:C5	2.74	0.55
2:AA:2691:C:N4	2:AA:2719:G:N2	2.55	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2730:C:O3'	5:AE:265:ASN:ND2	2.40	0.55
2:AA:2734:A:N6	5:AE:316:ARG:NH1	2.55	0.55
2:AA:2784:C:O2	5:AE:98:GLU:CD	2.49	0.55
2:AA:2850:A:C6	2:AA:2869:G:H5'	2.41	0.55
2:AA:2892:A:C2'	2:AA:2893:G:C8	2.90	0.55
4:AD:131:LEU:HD11	4:AD:183:ILE:CG2	2.36	0.55
4:AD:131:LEU:HB2	4:AD:171:VAL:HG21	1.88	0.55
4:AD:198:GLY:O	4:AD:200:THR:N	2.38	0.55
5:AE:212:GLY:O	5:AE:214:VAL:N	2.40	0.55
5:AE:229:GLN:C	5:AE:231:TRP:N	2.65	0.55
6:AF:239:ALA:O	6:AF:240:LEU:C	2.50	0.55
7:AG:105:SER:O	7:AG:106:PHE:CG	2.59	0.55
7:AG:136:ARG:HG2	7:AG:136:ARG:HH11	1.70	0.55
9:AI:34:ALA:O	9:AI:35:ALA:HB2	2.06	0.55
10:AK:13:GLY:O	10:AK:17:GLU:OE2	2.25	0.55
10:AK:94:THR:O	10:AK:95:SER:C	2.48	0.55
11:AL:56:VAL:HG22	11:AL:70:ILE:HA	1.87	0.55
12:AM:63:ILE:O	12:AM:69:TYR:O	2.24	0.55
12:AM:97:ALA:O	12:AM:100:SER:N	2.39	0.55
13:AN:37:ASP:C	13:AN:62:VAL:HG23	2.32	0.55
14:AO:94:ARG:CG	14:AO:120:LEU:HD22	2.36	0.55
15:AP:26:LYS:HG3	15:AP:28:ILE:CD1	2.37	0.55
15:AP:133:GLU:OE1	15:AP:134:PHE:HA	2.07	0.55
17:AR:44:ARG:HG3	17:AR:45:GLU:H	1.71	0.55
20:AU:77:VAL:C	20:AU:89:ARG:HD2	2.32	0.55
20:AU:78:THR:C	20:AU:89:ARG:HG3	2.31	0.55
21:AV:69:VAL:HG13	21:AV:81:VAL:HG13	1.87	0.55
21:AV:70:GLN:HG3	21:AV:72:ASP:CB	2.32	0.55
22:AW:46:ILE:H	22:AW:46:ILE:HD13	1.72	0.55
24:A0:44:LEU:HD11	24:A0:48:VAL:HG21	1.86	0.55
34:BA:135:C:C5	34:BA:136:C:H5	2.25	0.55
34:BA:194:C:O2'	34:BA:195:A:H5''	2.06	0.55
34:BA:204:U:H4'	34:BA:216:G:OP1	2.07	0.55
34:BA:236:G:H3'	34:BA:237:C:C6	2.42	0.55
34:BA:483:C:H3'	34:BA:483:C:H6	1.72	0.55
34:BA:518:C:H42	35:BB:34:G:H21	1.52	0.55
34:BA:555:C:O2	34:BA:555:C:C2'	2.53	0.55
34:BA:771:G:C6	34:BA:809:G:C6	2.95	0.55
34:BA:790:A:C5	34:BA:791:G:C5	2.95	0.55
34:BA:817:C:O2	34:BA:817:C:H2'	2.05	0.55
34:BA:823:G:H2'	34:BA:824:C:C6	2.42	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:841:U:H3	37:BE:37:ASN:HD22	1.52	0.55
34:BA:900:A:H2'	34:BA:901:A:C8	2.41	0.55
34:BA:962:C:C4	34:BA:963:G:C8	2.94	0.55
34:BA:1122:U:O2'	34:BA:1123:A:H5'	2.07	0.55
34:BA:1298:C:N3	42:BJ:114:ARG:HB3	2.20	0.55
34:BA:1308:U:O2	34:BA:1309:G:C8	2.59	0.55
34:BA:1371:G:OP1	44:BL:12:GLU:HG2	2.07	0.55
34:BA:1418:A:N1	34:BA:1483:A:C5	2.75	0.55
35:BB:4:G:C4	35:BB:5:A:C8	2.95	0.55
35:BB:64:A:C4	35:BB:65:G:C8	2.95	0.55
35:BC:36:A:C2	35:BC:37:G:C4	2.94	0.55
37:BE:101:MET:CA	37:BE:108:ILE:HG13	2.29	0.55
37:BE:124:SER:O	37:BE:127:ILE:HG13	2.06	0.55
39:BG:50:ARG:HD3	39:BG:51:PRO:HD2	1.88	0.55
40:BH:100:VAL:HG11	40:BH:107:ARG:CD	2.37	0.55
43:BK:14:ARG:O	43:BK:18:ARG:HD2	2.05	0.55
43:BK:40:ALA:CB	43:BK:45:ILE:HG23	2.37	0.55
44:BL:85:LEU:CD1	44:BL:89:ASN:ND2	2.69	0.55
46:BN:21:ILE:HG13	46:BN:83:ILE:O	2.06	0.55
46:BN:31:THR:CB	46:BN:42:TRP:HB3	2.36	0.55
47:BO:28:LYS:CE	47:BO:33:ARG:NH1	2.65	0.55
47:BO:41:ARG:NH2	47:BO:57:LYS:HZ2	1.94	0.55
47:BO:85:ILE:CG2	47:BO:85:ILE:O	2.55	0.55
48:BP:4:ILE:O	48:BP:6:GLY:N	2.39	0.55
49:BQ:37:PHE:HD1	49:BQ:39:LEU:HD12	1.71	0.55
51:BS:26:ARG:HG2	51:BS:26:ARG:NH1	2.22	0.55
54:BV:14:HIS:HB2	54:BV:15:LEU:HD23	1.89	0.55
55:BW:31:SER:OG	55:BW:32:ALA:N	2.40	0.55
1:AB:13:A:H2	1:AB:69:G:N2	2.02	0.55
1:AB:20:C:H2'	1:AB:21:G:C5'	2.37	0.55
1:AB:45:A:C1'	7:AG:76:ARG:NH1	2.67	0.55
1:AB:75:G:N3	21:AV:22:VAL:CG2	2.70	0.55
2:AA:66:C:N3	2:AA:89:G:N1	2.54	0.55
2:AA:145:G:H2'	2:AA:146:G:O4'	2.07	0.55
2:AA:154:G:H3'	2:AA:155:C:C6	2.41	0.55
2:AA:269:U:H5	2:AA:270(Z):U:OP2	1.89	0.55
2:AA:270(Z):U:O2	2:AA:271(B):G:OP1	2.24	0.55
2:AA:273(D):C:C4	2:AA:363(B):G:N2	2.74	0.55
2:AA:374:A:C2	2:AA:375:C:C1'	2.89	0.55
2:AA:428:A:C5	2:AA:429:A:C5	2.94	0.55
2:AA:443:A:O4'	2:AA:1201:C:H5'	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:542:C:H2'	2:AA:543:C:C6	2.42	0.55
2:AA:553:U:H2'	2:AA:554:U:O4'	2.07	0.55
2:AA:562:U:O5'	2:AA:562:U:H6	1.90	0.55
2:AA:597:U:H2'	2:AA:598:G:H8	1.72	0.55
2:AA:731:C:H2'	2:AA:732:C:H5'	1.88	0.55
2:AA:775:G:H21	2:AA:788:A:P	2.27	0.55
2:AA:903:C:C2	2:AA:904:C:C5	2.95	0.55
2:AA:1031:G:H4'	33:A9:8:LYS:CE	2.36	0.55
2:AA:1130:U:HO2'	2:AA:1131:G:P	2.25	0.55
2:AA:1157:G:HO2'	23:AX:31:LEU:HD12	1.72	0.55
2:AA:1343:G:N2	2:AA:1405:U:N1	2.55	0.55
2:AA:1399:C:H2'	2:AA:1400:G:C8	2.41	0.55
2:AA:1416:G:C2	2:AA:1583:A:N6	2.75	0.55
2:AA:1498:C:O2	2:AA:1499:C:C6	2.60	0.55
2:AA:1527:G:C2'	2:AA:1528:A:C5'	2.71	0.55
2:AA:1539:G:C2'	2:AA:1540:G:C8	2.88	0.55
2:AA:1558:A:O2'	2:AA:1559:G:N7	2.36	0.55
2:AA:1569:A:N1	2:AA:1570:A:C6	2.75	0.55
2:AA:1672:C:HO2'	2:AA:1673:U:P	2.30	0.55
2:AA:1718:G:C2	2:AA:1741:C:C4	2.95	0.55
2:AA:1935:G:O2'	2:AA:1937:A:C2	2.59	0.55
2:AA:2024:G:C5	2:AA:2025:C:C5	2.95	0.55
2:AA:2111:C:H6	2:AA:2117:A:H62	1.55	0.55
2:AA:2186:G:N1	2:AA:2187:G:O6	2.39	0.55
2:AA:2212:A:N3	2:AA:2212:A:C2'	2.69	0.55
2:AA:2262:U:C4'	2:AA:2328:A:C2	2.90	0.55
2:AA:2282:G:N2	2:AA:2427:C:C2	2.70	0.55
2:AA:2348:U:C2'	2:AA:2349:G:O5'	2.55	0.55
2:AA:2377:A:H2'	2:AA:2378:A:N7	2.21	0.55
2:AA:2405:G:C2'	2:AA:2411:A:H61	2.16	0.55
2:AA:2462:U:C2'	2:AA:2463:C:H5'	2.36	0.55
2:AA:2475:C:O2'	2:AA:2477:C:P	2.65	0.55
2:AA:2493:U:N3	2:AA:2494:G:C8	2.75	0.55
2:AA:2589:A:C2	2:AA:2606:C:C4	2.94	0.55
2:AA:2706:G:C6	2:AA:2707:G:N7	2.74	0.55
2:AA:2841:C:H2'	2:AA:2842:G:N7	2.21	0.55
4:AD:118:GLY:O	4:AD:120:ASP:N	2.40	0.55
4:AD:131:LEU:CD1	4:AD:183:ILE:HG21	2.37	0.55
4:AD:139:LEU:HD13	4:AD:192:GLY:CA	2.36	0.55
4:AD:139:LEU:HD13	4:AD:192:GLY:N	2.20	0.55
4:AD:154:VAL:CA	4:AD:157:ALA:HB3	2.35	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:166:LYS:C	4:AD:167:GLU:CD	2.75	0.55
4:AD:171:VAL:C	4:AD:182:MET:SD	2.90	0.55
4:AD:174:ARG:HE	4:AD:180:VAL:CG1	2.20	0.55
5:AE:252:GLN:NE2	5:AE:252:GLN:HA	2.16	0.55
5:AE:269:ILE:HA	5:AE:297:LYS:HZ2	1.68	0.55
8:AH:27:GLY:O	8:AH:28:PRO:O	2.25	0.55
8:AH:36:PHE:CE1	8:AH:74:MET:SD	2.99	0.55
8:AH:44:VAL:C	8:AH:45:GLU:OE1	2.50	0.55
8:AH:100:LYS:O	8:AH:100:LYS:CG	2.53	0.55
10:AK:36:ALA:O	10:AK:37:ILE:HD12	2.07	0.55
10:AK:94:THR:C	10:AK:96:LYS:H	2.14	0.55
10:AK:110:LEU:HG	10:AK:114:LYS:HZ1	1.69	0.55
11:AL:91:GLU:O	11:AL:95:LYS:HB3	2.07	0.55
12:AM:42:GLU:HA	12:AM:133:GLY:CA	2.37	0.55
14:AO:60:GLU:O	14:AO:61:ALA:HB2	2.06	0.55
14:AO:69:ILE:HG13	14:AO:70:ASP:N	2.22	0.55
14:AO:112:GLY:C	14:AO:113:GLN:CD	2.75	0.55
15:AP:50:VAL:HG12	15:AP:51:GLU:OE1	2.07	0.55
15:AP:72:VAL:CG2	15:AP:135:ALA:HB1	2.37	0.55
16:AQ:15:GLU:O	16:AQ:16:ALA:HB2	2.07	0.55
16:AQ:17:ARG:NH2	16:AQ:106:LEU:HD13	2.22	0.55
20:AU:20:HIS:CD2	20:AU:23:VAL:HB	2.35	0.55
21:AV:41:ARG:O	21:AV:45:GLN:NE2	2.40	0.55
21:AV:42:ALA:C	21:AV:44:ARG:N	2.56	0.55
23:AX:1:MET:O	23:AX:1:MET:SD	2.65	0.55
24:A0:39:PRO:O	24:A0:40:LYS:C	2.49	0.55
25:A1:50:ARG:N	25:A1:53:LYS:HZ1	2.04	0.55
26:A2:5:ILE:O	26:A2:6:GLN:HB2	2.06	0.55
26:A2:11:GLN:OE1	26:A2:21:ARG:NE	2.40	0.55
34:BA:47:C:C5	34:BA:365:U:H2'	2.41	0.55
34:BA:47:C:C6	34:BA:365:U:H2'	2.42	0.55
34:BA:166:G:N2	34:BA:167:G:C1'	2.70	0.55
34:BA:197:A:N7	34:BA:221:C:H4'	2.21	0.55
34:BA:259:G:N2	34:BA:260:G:H1'	2.22	0.55
34:BA:284:G:O2'	34:BA:285:G:C5'	2.54	0.55
34:BA:522:C:H2'	34:BA:523:A:C8	2.42	0.55
34:BA:522:C:H2'	34:BA:523:A:H8	1.72	0.55
34:BA:750:G:N3	50:BR:23:GLY:CA	2.70	0.55
34:BA:817:C:N3	34:BA:1529:G:N1	2.49	0.55
34:BA:890:G:H2'	34:BA:891:U:OP2	2.07	0.55
34:BA:1102:A:C4	34:BA:1103:C:C5	2.95	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1129:C:C4'	34:BA:1131:G:N7	2.53	0.55
34:BA:1250:A:C6	34:BA:1251:A:C6	2.95	0.55
34:BA:1305:G:OP2	34:BA:1305:G:C8	2.60	0.55
34:BA:1344:C:H5'	44:BL:120:ARG:O	2.06	0.55
35:BB:35:A:N1	36:B1:65:U:C2'	2.70	0.55
35:BC:29:A:H5'	48:BP:118:ALA:O	2.05	0.55
37:BE:15:VAL:HG21	37:BE:209:ARG:CB	2.35	0.55
38:BF:88:ARG:HG3	38:BF:101:LEU:HB2	1.89	0.55
40:BH:79:GLU:CG	40:BH:93:PRO:HD2	2.36	0.55
40:BH:127:ASN:O	40:BH:127:ASN:OD1	2.24	0.55
41:BI:42:GLU:C	41:BI:44:GLY:N	2.61	0.55
42:BJ:62:PHE:HA	42:BJ:124:LEU:CD2	2.36	0.55
42:BJ:69:VAL:HG21	42:BJ:104:LEU:HD13	1.87	0.55
43:BK:22:GLU:O	43:BK:63:LEU:CD1	2.55	0.55
43:BK:24:THR:O	43:BK:60:ARG:CA	2.55	0.55
44:BL:11:LYS:C	44:BL:12:GLU:CD	2.75	0.55
44:BL:98:PRO:O	44:BL:100:GLY:N	2.37	0.55
47:BO:34:ARG:HH21	47:BO:61:THR:CG2	2.07	0.55
48:BP:20:THR:CG2	48:BP:20:THR:O	2.54	0.55
50:BR:71:GLN:HG3	50:BR:75:PRO:HB3	1.86	0.55
52:BT:5:VAL:HG13	52:BT:59:ILE:N	2.22	0.55
53:BU:62:GLU:O	53:BU:63:GLN:C	2.47	0.55
55:BW:63:ILE:HG12	55:BW:72:LEU:HD11	1.89	0.55
1:AB:82:G:C6	1:AB:95:U:N3	2.75	0.55
2:AA:14:A:C8	2:AA:15:G:N9	2.74	0.55
2:AA:31:C:H42	2:AA:474:G:H1	1.55	0.55
2:AA:136:G:C8	2:AA:136:G:OP2	2.59	0.55
2:AA:192:C:H5''	2:AA:193:U:OP2	2.07	0.55
2:AA:246:C:O2'	2:AA:385:C:H5'	2.07	0.55
2:AA:283:A:C8	2:AA:284:U:C6	2.94	0.55
2:AA:387:U:C5	2:AA:387:U:OP2	2.60	0.55
2:AA:388:G:C2'	2:AA:390:A:C5	2.88	0.55
2:AA:417:C:O2'	2:AA:418:G:H5'	2.07	0.55
2:AA:465:G:H2'	2:AA:466:A:H8	1.71	0.55
2:AA:638:G:C8	2:AA:639:U:C2	2.95	0.55
2:AA:640:C:N4	2:AA:647:G:C6	2.71	0.55
2:AA:661:C:H2'	2:AA:661:C:O2	2.06	0.55
2:AA:716:A:C8	2:AA:716:A:C3'	2.90	0.55
2:AA:727:A:C2'	2:AA:728:G:O5'	2.55	0.55
2:AA:731:C:OP2	2:AA:761:A:OP1	2.23	0.55
2:AA:749:C:H2'	2:AA:750:A:C8	2.36	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:783:A:H5''	4:AD:230:ASN:ND2	2.22	0.55
2:AA:929:G:O2'	23:AX:43:ILE:CG1	2.55	0.55
2:AA:1044:G:O6	2:AA:1112:G:N3	2.39	0.55
2:AA:1044:G:OP1	2:AA:1047:G:H5''	2.07	0.55
2:AA:1070:A:C8	2:AA:1097:U:O5'	2.60	0.55
2:AA:1077:A:C8	2:AA:1078:U:C4	2.95	0.55
2:AA:1102:C:O2'	2:AA:1103:A:H8	1.89	0.55
2:AA:1198:U:C2	2:AA:1199:U:C5	2.95	0.55
2:AA:1201:C:H2'	2:AA:1202:C:O5'	2.07	0.55
2:AA:1272:A:OP2	2:AA:1647:G:OP1	2.24	0.55
2:AA:1327:C:C2'	2:AA:1328:G:C8	2.88	0.55
2:AA:1387:C:C2	2:AA:1388:G:C8	2.94	0.55
2:AA:1399:C:OP1	19:AT:67:ARG:NH1	2.40	0.55
2:AA:1437:C:O2'	2:AA:1438:U:OP1	2.25	0.55
2:AA:1582:C:H2'	2:AA:1583:A:H1'	1.88	0.55
2:AA:1656:C:P	5:AE:212:GLY:HA3	2.47	0.55
2:AA:1718:G:N2	2:AA:1741:C:C2	2.74	0.55
2:AA:1768:U:H1'	2:AA:1985:G:N2	2.20	0.55
2:AA:1786:A:C6	2:AA:1938:A:C6	2.95	0.55
2:AA:1831:G:C5	2:AA:1832:C:C4	2.95	0.55
2:AA:2153:G:C2	2:AA:2154:G:H1'	2.41	0.55
2:AA:2396:G:N2	2:AA:2397:G:C8	2.75	0.55
2:AA:2444:G:C6	2:AA:2445:G:C6	2.95	0.55
2:AA:2495:G:O2'	15:AP:101:MET:HG3	2.06	0.55
2:AA:2537:U:H2'	2:AA:2538:C:C6	2.42	0.55
2:AA:2583:G:H2'	2:AA:2584:U:O2	2.06	0.55
2:AA:2694:G:H2'	2:AA:2695:C:O5'	2.07	0.55
2:AA:2699:C:H2'	2:AA:2699:C:O2	2.05	0.55
2:AA:2777:G:C8	2:AA:2777:G:C3'	2.89	0.55
2:AA:2777:G:C8	2:AA:2777:G:H3'	2.42	0.55
2:AA:2850:A:C4	2:AA:2851:A:N7	2.74	0.55
2:AA:2851:A:N9	24:A0:61:HIS:NE2	2.54	0.55
3:AC:103:ILE:HG22	3:AC:130:ILE:HG21	1.87	0.55
3:AC:127:LEU:CA	3:AC:130:ILE:HB	2.37	0.55
3:AC:172:HIS:O	3:AC:173:ALA:HB2	2.06	0.55
4:AD:62:ARG:NH2	4:AD:85:ASN:OD1	2.40	0.55
4:AD:164:LEU:CD1	4:AD:174:ARG:HH12	2.16	0.55
5:AE:41:PHE:O	5:AE:311:PHE:CE1	2.60	0.55
5:AE:105:HIS:CG	5:AE:108:LEU:HG	2.41	0.55
5:AE:175:ASP:O	5:AE:178:LEU:HG	2.07	0.55
6:AF:90:HIS:H	6:AF:91:PRO:HD3	1.72	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:140:VAL:CG1	6:AF:236:THR:HG22	2.27	0.55
8:AH:10:ILE:C	8:AH:14:VAL:HG21	2.31	0.55
8:AH:102:LEU:HD11	8:AH:114:ILE:HB	1.88	0.55
9:AI:31:VAL:HG12	9:AI:31:VAL:O	2.07	0.55
9:AI:55:GLU:O	9:AI:56:LYS:HG3	2.06	0.55
9:AI:61:VAL:HG13	9:AI:115:LYS:HG2	1.89	0.55
10:AK:110:LEU:HD21	10:AK:114:LYS:NZ	2.21	0.55
12:AM:58:GLU:HG2	12:AM:139:LEU:HB3	1.84	0.55
12:AM:60:ARG:HB3	12:AM:71:TYR:HD2	1.72	0.55
12:AM:65:ASN:O	12:AM:68:GLY:O	2.24	0.55
12:AM:75:PRO:O	12:AM:76:ASP:C	2.49	0.55
15:AP:16:ARG:HD3	15:AP:19:TYR:CD2	2.42	0.55
15:AP:36:ASN:OD1	21:AV:115:ILE:C	2.50	0.55
16:AQ:40:ASN:O	16:AQ:41:LYS:C	2.50	0.55
18:AS:13:SER:HG	18:AS:17:VAL:H	1.55	0.55
18:AS:30:GLU:O	18:AS:33:ARG:CB	2.53	0.55
18:AS:76:VAL:CG2	18:AS:102:HIS:O	2.54	0.55
20:AU:105:ASP:HB2	20:AU:108:ARG:HD2	1.87	0.55
21:AV:35:ASP:OD1	21:AV:37:LYS:HB3	2.07	0.55
22:AW:30:ALA:O	22:AW:34:GLN:CB	2.55	0.55
24:A0:18:LEU:O	24:A0:19:ALA:C	2.50	0.55
24:A0:89:ASP:CG	24:A0:90:ARG:H	2.13	0.55
27:A3:4:LYS:HZ3	27:A3:11:LYS:HZ2	1.54	0.55
27:A3:63:SER:OG	27:A3:64:ASP:N	2.37	0.55
31:A7:35:ARG:NH1	31:A7:35:ARG:CB	2.51	0.55
33:A9:3:VAL:O	33:A9:3:VAL:HG12	2.06	0.55
34:BA:135:C:C6	34:BA:135:C:C3'	2.90	0.55
34:BA:153:C:O2'	34:BA:154:C:H5'	2.07	0.55
34:BA:292:G:C5	34:BA:293:G:H1'	2.42	0.55
34:BA:313:A:C2'	34:BA:314:C:H6	2.04	0.55
34:BA:484:G:H4'	34:BA:485:G:O5'	2.07	0.55
34:BA:872:A:C2	34:BA:874:G:N7	2.75	0.55
34:BA:880:C:C2'	34:BA:881:G:C5'	2.85	0.55
34:BA:925:G:N1	34:BA:1392:G:C6	2.74	0.55
34:BA:1136:U:C5'	34:BA:1137:C:OP2	2.50	0.55
34:BA:1218:C:H2'	34:BA:1219:U:C6	2.41	0.55
34:BA:1436:U:C4	34:BA:1437:C:C5	2.94	0.55
34:BA:1468:A:C8	34:BA:1469:G:C8	2.95	0.55
34:BA:1539:C:C2	34:BA:1540:U:C5	2.95	0.55
35:BB:22:G:O2'	35:BB:23:A:H8	1.90	0.55
37:BE:136:VAL:N	37:BE:139:LYS:NZ	2.55	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:89:GLU:C	38:BF:91:LEU:N	2.62	0.55
38:BF:205:GLY:O	38:BF:206:GLU:HB2	2.07	0.55
39:BG:4:TYR:O	39:BG:5:ILE:CB	2.55	0.55
39:BG:15:GLU:OE1	39:BG:15:GLU:HA	2.06	0.55
39:BG:26:CYS:CA	39:BG:31:CYS:HA	2.35	0.55
39:BG:93:PHE:O	39:BG:96:LEU:N	2.39	0.55
40:BH:76:ILE:CB	40:BH:77:PRO:HD2	2.36	0.55
40:BH:91:LEU:C	40:BH:91:LEU:CD2	2.76	0.55
40:BH:103:GLY:HA2	40:BH:107:ARG:HH22	1.70	0.55
41:BI:27:GLN:O	41:BI:28:ARG:C	2.48	0.55
42:BJ:111:ARG:CD	42:BJ:123:GLU:OE2	2.54	0.55
43:BK:67:PRO:HG2	43:BK:76:PRO:HA	1.88	0.55
43:BK:98:LYS:H	43:BK:98:LYS:NZ	2.02	0.55
43:BK:98:LYS:C	43:BK:100:ILE:HD12	2.31	0.55
47:BO:58:VAL:O	47:BO:60:LEU:HD11	2.07	0.55
47:BO:84:LEU:HB2	47:BO:105:TYR:CE1	2.42	0.55
47:BO:117:ARG:NH2	47:BO:123:LYS:C	2.65	0.55
54:BV:39:THR:HA	54:BV:70:LYS:HA	1.89	0.55
55:BW:83:ARG:HA	55:BW:86:ARG:CD	2.32	0.55
56:BX:18:TYR:H	56:BX:18:TYR:HD1	1.49	0.55
1:AB:3:C:N3	1:AB:118:G:C2	2.74	0.55
2:AA:173:G:N2	2:AA:174:C:C2	2.74	0.55
2:AA:196:A:O2'	2:AA:197:A:OP1	2.25	0.55
2:AA:302:C:H2'	2:AA:303:U:C6	2.42	0.55
2:AA:540:G:C5	2:AA:541:C:C5	2.95	0.55
2:AA:640:C:H3'	2:AA:640:C:C6	2.38	0.55
2:AA:685:A:C2	2:AA:689:A:C6	2.95	0.55
2:AA:727:A:N6	2:AA:728:G:N1	2.55	0.55
2:AA:754:C:N3	2:AA:755:C:C5	2.75	0.55
2:AA:988:A:O2'	2:AA:1157:G:H5'	2.06	0.55
2:AA:1144:G:C4	2:AA:1145:C:C5	2.95	0.55
2:AA:1225:C:OP2	26:A2:87:ARG:NH2	2.40	0.55
2:AA:1275:A:N1	24:A0:16:HIS:CA	2.64	0.55
2:AA:1275:A:HO2'	2:AA:1276:A:P	2.25	0.55
2:AA:1278:A:H61	2:AA:1292:U:H3	1.54	0.55
2:AA:1534:G:N2	2:AA:1536:A:H8	2.05	0.55
2:AA:1565:C:O2'	2:AA:1566:A:C8	2.59	0.55
2:AA:1771:C:C2	2:AA:1772:G:N7	2.75	0.55
2:AA:1838:C:H2'	2:AA:1898:U:C5	2.42	0.55
2:AA:1977:A:O2'	2:AA:1978:A:O4'	2.18	0.55
2:AA:2107:C:C2	2:AA:2182:G:N2	2.75	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2126:A:H2	2:AA:2127:G:C4	2.25	0.55
2:AA:2131:G:O4'	2:AA:2131:G:OP1	2.24	0.55
2:AA:2262:U:C4'	2:AA:2328:A:H2	2.20	0.55
2:AA:2302:G:O2'	2:AA:2303:G:H5'	2.06	0.55
2:AA:2370:G:C4	2:AA:2371:G:C8	2.95	0.55
2:AA:2408:U:H2'	2:AA:2409:G:C8	2.42	0.55
2:AA:2602:A:OP1	35:BC:75:C:OP2	2.24	0.55
2:AA:2635:C:O2	2:AA:2635:C:C2'	2.44	0.55
2:AA:2679:A:N3	5:AE:300:VAL:CG1	2.61	0.55
2:AA:2790:A:O4'	2:AA:2893:G:N2	2.39	0.55
2:AA:2824:C:H2'	2:AA:2825:C:H5'	1.89	0.55
2:AA:2834:G:H3'	2:AA:2834:G:H8	1.72	0.55
2:AA:2852:G:H2'	2:AA:2853:C:C6	2.41	0.55
5:AE:109:ASP:OD1	5:AE:112:LEU:CG	2.54	0.55
5:AE:317:PRO:HB2	5:AE:320:GLN:HA	1.88	0.55
6:AF:61:PHE:O	6:AF:65:ARG:NH2	2.40	0.55
6:AF:168:ARG:NE	6:AF:209:GLY:CA	2.70	0.55
7:AG:98:PHE:CA	7:AG:104:PHE:CD2	2.66	0.55
8:AH:8:ILE:HG22	8:AH:9:GLU:O	2.06	0.55
9:AI:22:VAL:HA	9:AI:38:ALA:CB	2.37	0.55
9:AJ:30:GLY:O	9:AJ:34:ALA:HB3	2.07	0.55
9:AJ:55:GLU:O	9:AJ:56:LYS:HG3	2.06	0.55
11:AL:55:PRO:HD2	11:AL:73:PRO:HD3	1.89	0.55
14:AO:73:VAL:O	14:AO:76:LEU:N	2.39	0.55
15:AP:11:LYS:NZ	15:AP:55:GLN:HG2	2.22	0.55
15:AP:63:ALA:O	15:AP:70:ARG:NH2	2.40	0.55
17:AR:7:ASP:OD2	17:AR:31:PHE:CE2	2.58	0.55
18:AS:74:ALA:CB	18:AS:105:VAL:HG12	2.36	0.55
20:AU:20:HIS:HD2	20:AU:23:VAL:CB	2.17	0.55
20:AU:81:LYS:HD2	20:AU:83:ASP:CB	2.37	0.55
21:AV:2:GLU:N	21:AV:54:ILE:HG13	2.22	0.55
21:AV:53:ASP:OD2	21:AV:62:PHE:O	2.25	0.55
21:AV:107:GLU:C	21:AV:109:GLN:H	2.12	0.55
23:AX:19:GLN:O	23:AX:23:LEU:HG	2.06	0.55
24:A0:64:ARG:CG	24:A0:65:LEU:N	2.69	0.55
26:A2:52:GLY:HA2	26:A2:55:THR:OG1	2.07	0.55
26:A2:96:LEU:O	26:A2:96:LEU:HG	2.06	0.55
27:A3:25:LYS:CE	27:A3:57:HIS:O	2.54	0.55
28:A4:26:SER:O	28:A4:27:THR:OG1	2.20	0.55
28:A4:33:VAL:CG1	28:A4:35:VAL:HG23	2.37	0.55
34:BA:8:A:H4'	34:BA:9:G:OP1	2.04	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:13:U:H5''	34:BA:13:U:C6	2.27	0.55
34:BA:120:A:H2'	34:BA:122:G:N7	2.22	0.55
34:BA:192:U:C1'	55:BW:103:GLY:CA	2.71	0.55
34:BA:294:U:H3	34:BA:303:A:H61	1.54	0.55
34:BA:295:C:C2'	34:BA:296:U:O5'	2.55	0.55
34:BA:306:G:N3	34:BA:307:C:C6	2.74	0.55
34:BA:655:A:O5'	34:BA:655:A:H8	1.90	0.55
34:BA:690:G:C6	34:BA:691:G:C2	2.95	0.55
34:BA:742:G:C2	34:BA:743:U:C2	2.95	0.55
34:BA:806:C:O2'	34:BA:807:A:H5'	2.07	0.55
34:BA:976:G:N2	34:BA:1363:A:C8	2.75	0.55
34:BA:980:C:H2'	34:BA:981:U:O4'	2.07	0.55
34:BA:1016:A:N6	34:BA:1017:G:N2	2.54	0.55
34:BA:1077:G:N2	34:BA:1079:G:C2'	2.70	0.55
34:BA:1121:U:O5'	34:BA:1121:U:C6	2.59	0.55
34:BA:1349:A:OP2	44:BL:118:LYS:HG2	2.07	0.55
34:BA:1371:G:OP2	44:BL:12:GLU:OE1	2.25	0.55
34:BA:1390:U:N3	34:BA:1391:U:O4	2.40	0.55
34:BA:1441:G:H5''	34:BA:1442:G:H5'	1.89	0.55
35:BB:11:C:C4	35:BB:12:U:C5	2.95	0.55
35:BB:33:U:N3	35:BB:35:A:P	2.75	0.55
35:BC:16:U:C5'	35:BC:18:G:H5''	2.32	0.55
37:BE:12:GLU:C	37:BE:14:GLY:N	2.64	0.55
37:BE:15:VAL:HG11	37:BE:209:ARG:HB3	1.89	0.55
38:BF:121:ALA:HB2	38:BF:187:ALA:CB	2.37	0.55
39:BG:163:GLU:O	39:BG:164:ALA:C	2.48	0.55
39:BG:172:PRO:HG3	39:BG:193:ASP:HB2	1.87	0.55
41:BI:95:GLU:N	41:BI:95:GLU:OE2	2.40	0.55
43:BK:29:SER:N	43:BK:32:LYS:NZ	2.55	0.55
44:BL:96:LEU:O	44:BL:101:PHE:HD1	1.90	0.55
45:BM:51:ARG:NH2	45:BM:61:GLU:OE1	2.40	0.55
46:BN:12:ARG:HB3	46:BN:75:TYR:CG	2.41	0.55
47:BO:88:GLY:CA	47:BO:99:HIS:CE1	2.90	0.55
48:BP:81:LEU:CD2	48:BP:82:MET:N	2.70	0.55
49:BQ:12:ARG:C	49:BQ:14:PRO:CD	2.80	0.55
50:BR:70:LEU:HD12	50:BR:70:LEU:O	2.06	0.55
54:BV:24:ALA:HB3	54:BV:25:LYS:NZ	2.22	0.55
55:BW:48:LYS:O	55:BW:49:ALA:C	2.50	0.55
55:BW:72:LEU:CD2	55:BW:77:ALA:N	2.66	0.55
56:BX:9:ARG:NH1	56:BX:21:TYR:HB3	2.22	0.55
1:AB:14:U:O2'	1:AB:107:U:C4'	2.55	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:20:C:O2'	2:AA:21:A:C5'	2.51	0.55
2:AA:121:G:O2'	2:AA:122:G:H5'	2.06	0.55
2:AA:153:C:N3	2:AA:174:C:N3	2.54	0.55
2:AA:178:G:C8	2:AA:178:G:H3'	2.41	0.55
2:AA:197:A:H3'	2:AA:198:C:C6	2.42	0.55
2:AA:209:C:H2'	2:AA:210:C:C5'	2.37	0.55
2:AA:297:C:C2'	2:AA:298:G:O4'	2.54	0.55
2:AA:301:G:H5''	2:AA:335:C:OP1	2.07	0.55
2:AA:373:U:N3	2:AA:400:G:N2	2.54	0.55
2:AA:499:U:H2'	2:AA:500:G:C5'	2.35	0.55
2:AA:611:C:C6	2:AA:618:G:N2	2.69	0.55
2:AA:628:G:N1	2:AA:635:C:N4	2.22	0.55
2:AA:654:A:C2	2:AA:655:A:C8	2.95	0.55
2:AA:701:G:C2	2:AA:732:C:C4	2.95	0.55
2:AA:736:C:O2'	2:AA:737:C:H5'	2.07	0.55
2:AA:737:C:H2'	2:AA:738:G:H5'	1.89	0.55
2:AA:862:G:C2	2:AA:863:A:H1'	2.41	0.55
2:AA:887:A:OP1	48:BP:93:ARG:NH2	2.37	0.55
2:AA:933:A:C2'	2:AA:934:G:H5'	2.37	0.55
2:AA:1084:A:C2	2:AA:1085:A:C2	2.95	0.55
2:AA:1285:G:H8	2:AA:1285:G:O5'	1.90	0.55
2:AA:1315:C:O2'	2:AA:1392:A:H1'	2.06	0.55
2:AA:1358:G:C3'	2:AA:1371:G:H22	2.20	0.55
2:AA:1446:C:O2'	2:AA:1447:G:H5'	2.06	0.55
2:AA:1582:C:O3'	2:AA:1586:A:H4'	2.07	0.55
2:AA:1698:A:HO2'	2:AA:1699:G:P	2.29	0.55
2:AA:1710:C:H5'	2:AA:2859:G:H1'	1.89	0.55
2:AA:1757:U:H2'	2:AA:1757:U:O2	2.07	0.55
2:AA:1805:U:H5''	4:AD:235:PRO:CB	2.36	0.55
2:AA:1864:U:O2'	2:AA:1869:G:H5'	2.05	0.55
2:AA:1912:A:O2'	34:BA:1494:G:O2'	2.24	0.55
2:AA:2010:G:H2'	2:AA:2011:U:C5'	2.28	0.55
2:AA:2055:C:H2'	2:AA:2504:U:C5'	2.22	0.55
2:AA:2086:U:C4	2:AA:2233:U:O4	2.60	0.55
2:AA:2097:C:N4	2:AA:2192:G:N1	2.13	0.55
2:AA:2098:U:N3	2:AA:2191:G:N1	2.50	0.55
2:AA:2239:G:C4	2:AA:2240:C:C6	2.94	0.55
2:AA:2241:A:H2'	2:AA:2242:G:H8	1.70	0.55
2:AA:2333:A:H1'	2:AA:2335:A:C2	2.41	0.55
2:AA:2349:G:C2	2:AA:2369:A:C2	2.95	0.55
2:AA:2372:G:P	30:A6:47:HIS:HE2	2.29	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2770:G:N7	2:AA:2771:C:H5	2.05	0.55
2:AA:2781:A:C5'	2:AA:2782:G:C5'	2.83	0.55
2:AA:2784:C:O2'	5:AE:98:GLU:O	2.21	0.55
2:AA:2877:G:N2	2:AA:2878:U:C2	2.75	0.55
3:AC:21:THR:HG22	3:AC:228:SER:OG	2.05	0.55
3:AC:45:ALA:HB1	3:AC:211:SER:O	2.06	0.55
4:AD:130:PRO:CA	4:AD:187:CYS:O	2.55	0.55
4:AD:186:LYS:O	4:AD:187:CYS:O	2.24	0.55
4:AD:210:LYS:CA	4:AD:213:LYS:CD	2.83	0.55
5:AE:76:PRO:HB3	5:AE:292:PRO:CG	2.35	0.55
5:AE:200:ASP:C	5:AE:201:VAL:HG23	2.32	0.55
6:AF:55:ARG:CG	6:AF:56:THR:N	2.42	0.55
7:AG:29:HIS:CE1	7:AG:69:ILE:HD11	2.42	0.55
7:AG:151:ILE:CD1	7:AG:156:ARG:NH2	2.65	0.55
9:AI:78:ARG:NH2	9:AI:89:LYS:HG3	2.11	0.55
9:AJ:62:VAL:O	9:AJ:125:VAL:HG13	2.06	0.55
10:AK:130:PRO:HA	10:AK:140:THR:HA	1.89	0.55
12:AM:53:ILE:HG23	12:AM:135:ILE:HD11	1.89	0.55
13:AN:99:PHE:O	13:AN:100:GLY:O	2.24	0.55
13:AN:107:ARG:CA	13:AN:115:ILE:CD1	2.84	0.55
14:AO:61:ALA:O	14:AO:62:ALA:HB2	2.06	0.55
15:AP:16:ARG:HB3	15:AP:19:TYR:HB2	1.87	0.55
16:AQ:110:THR:O	16:AQ:114:LYS:N	2.39	0.55
20:AU:42:VAL:C	20:AU:112:LEU:HD13	2.32	0.55
21:AV:43:PHE:HA	21:AV:47:SER:OG	2.07	0.55
21:AV:53:ASP:OD2	21:AV:85:MET:HE2	2.07	0.55
21:AV:92:VAL:HG13	21:AV:124:ALA:CB	2.37	0.55
21:AV:103:ARG:NH1	21:AV:139:THR:HG22	2.22	0.55
24:A0:52:ILE:HG21	24:A0:94:TYR:CD1	2.42	0.55
25:A1:8:ILE:CA	25:A1:11:ARG:HH11	2.20	0.55
25:A1:50:ARG:N	25:A1:53:LYS:NZ	2.55	0.55
26:A2:4:ILE:HD11	26:A2:13:ARG:CZ	2.36	0.55
26:A2:12:TYR:CG	26:A2:13:ARG:N	2.75	0.55
30:A6:11:LYS:NZ	32:A8:35:GLY:CA	2.60	0.55
34:BA:27:G:N2	34:BA:557:G:H1'	2.22	0.55
34:BA:99:C:HO2'	34:BA:101:A:P	2.28	0.55
34:BA:112:G:N2	34:BA:330:C:H41	2.04	0.55
34:BA:243:A:H4'	34:BA:244:U:H5'	1.89	0.55
34:BA:245:C:C2	34:BA:284:G:C6	2.95	0.55
34:BA:307:C:O2	34:BA:307:C:C2'	2.55	0.55
34:BA:551:U:H2'	34:BA:552:U:C5	2.39	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:622:A:H2'	34:BA:623:C:C5'	2.37	0.55
34:BA:626:U:OP1	51:BS:38:TYR:CB	2.54	0.55
34:BA:663:A:N6	34:BA:664:G:O6	2.40	0.55
34:BA:764:C:C2'	34:BA:765:G:H8	2.17	0.55
34:BA:782:A:C6	34:BA:801:U:C2	2.95	0.55
34:BA:790:A:C2'	34:BA:791:G:O5'	2.54	0.55
34:BA:1105:A:C4	34:BA:1106:G:C8	2.94	0.55
34:BA:1329:A:H5'	48:BP:29:ARG:HE	1.68	0.55
34:BA:1366:C:O2'	34:BA:1367:C:H5'	2.06	0.55
34:BA:1413:A:H2'	34:BA:1413:A:N3	2.20	0.55
34:BA:1504:G:OP2	34:BA:1504:G:H8	1.90	0.55
35:BB:38:A:C3'	35:BB:39:U:H5'	2.37	0.55
35:BB:47:U:O4	35:BB:49:C:H4'	2.07	0.55
35:BC:11:C:H2'	35:BC:12:U:H6	1.72	0.55
35:BC:18:G:C5	35:BC:58:A:C2	2.94	0.55
37:BE:61:LEU:N	37:BE:64:ARG:HH11	2.05	0.55
37:BE:69:LEU:HB3	37:BE:162:ILE:HA	1.89	0.55
38:BF:12:LEU:CG	38:BF:17:ASP:HA	2.37	0.55
38:BF:73:PRO:O	38:BF:76:VAL:N	2.34	0.55
39:BG:17:VAL:O	39:BG:18:LYS:O	2.24	0.55
39:BG:52:SER:O	39:BG:53:ASP:C	2.49	0.55
39:BG:61:LYS:HZ3	39:BG:72:GLU:CD	2.13	0.55
39:BG:110:PHE:CZ	39:BG:147:ALA:HA	2.42	0.55
41:BI:11:ASN:CG	41:BI:14:LEU:HD23	2.32	0.55
41:BI:83:ASP:C	41:BI:85:VAL:N	2.64	0.55
43:BK:14:ARG:HA	43:BK:17:THR:OG1	2.07	0.55
43:BK:21:LYS:C	43:BK:63:LEU:HD11	2.32	0.55
43:BK:90:GLY:O	52:BT:34:LYS:CD	2.53	0.55
44:BL:2:GLU:O	44:BL:21:PRO:HD3	2.07	0.55
44:BL:15:ALA:HB2	44:BL:76:ALA:CB	2.36	0.55
45:BM:15:THR:HG23	45:BM:16:LEU:HD22	1.88	0.55
47:BO:41:ARG:NH2	47:BO:57:LYS:HZ1	2.05	0.55
48:BP:81:LEU:HG	48:BP:88:ARG:NE	2.21	0.55
49:BQ:42:ILE:O	49:BQ:44:LEU:N	2.40	0.55
50:BR:56:LEU:HD12	50:BR:59:MET:CE	2.36	0.55
54:BV:36:ARG:NE	54:BV:72:GLY:CA	2.68	0.55
55:BW:81:LYS:O	55:BW:82:SER:C	2.50	0.55
1:AB:16:G:OP2	1:AB:16:G:C3'	2.39	0.54
1:AB:65:C:C5	1:AB:108:C:N4	2.75	0.54
2:AA:84:A:H1'	2:AA:103:A:N6	2.22	0.54
2:AA:137:C:O2	2:AA:137(A):G:C5	2.59	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:138:G:H1'	19:AT:42:GLU:CG	2.36	0.54
2:AA:204:A:H2	2:AA:205:G:N2	2.05	0.54
2:AA:225:A:H61	2:AA:419:C:H4'	1.71	0.54
2:AA:265:A:N7	2:AA:428:A:C6	2.75	0.54
2:AA:309:G:H5'	2:AA:310:A:OP2	2.07	0.54
2:AA:340:A:C8	2:AA:340:A:OP2	2.60	0.54
2:AA:357:A:H8	2:AA:357:A:O5'	1.90	0.54
2:AA:424:G:N2	2:AA:425:G:H1'	2.23	0.54
2:AA:543:C:H2'	2:AA:544:C:O5'	2.07	0.54
2:AA:552:G:H2'	2:AA:553:U:C6	2.42	0.54
2:AA:554:U:O2'	2:AA:556:G:C8	2.53	0.54
2:AA:559:G:H4'	2:AA:560:C:OP1	2.07	0.54
2:AA:575:A:H2	2:AA:576:U:C2	2.25	0.54
2:AA:589:C:O2'	6:AF:96:LYS:HG2	2.07	0.54
2:AA:673:C:C5'	6:AF:82:GLN:HE22	2.19	0.54
2:AA:722:A:O2'	2:AA:723:G:H5'	2.07	0.54
2:AA:849:A:C4	2:AA:850:C:C6	2.94	0.54
2:AA:912:C:O2'	2:AA:913:U:H5'	2.07	0.54
2:AA:1040:C:C4	2:AA:1115:G:N1	2.75	0.54
2:AA:1059:G:H1'	11:AL:127:ILE:CG2	2.37	0.54
2:AA:1059:G:N3	11:AL:127:ILE:CG2	2.70	0.54
2:AA:1068:G:C6	2:AA:1073:A:C2	2.94	0.54
2:AA:1074:G:C5	2:AA:1075:C:H5	2.25	0.54
2:AA:1286:A:N3	2:AA:1329:U:N3	2.54	0.54
2:AA:1323:U:OP1	18:AS:84:ARG:HD3	2.07	0.54
2:AA:1381:G:H2'	2:AA:1382:G:O4'	2.06	0.54
2:AA:1417:C:C4	2:AA:1581:G:N2	2.71	0.54
2:AA:1459:G:C6	2:AA:1461:G:C5	2.94	0.54
2:AA:1620:G:O2'	2:AA:1621:U:C5'	2.54	0.54
2:AA:1677:A:H2'	2:AA:1678:G:H8	1.61	0.54
2:AA:1699:G:C6	2:AA:1763:G:C4	2.95	0.54
2:AA:1907:G:H1	2:AA:1923:U:H3	0.65	0.54
2:AA:2023:G:OP1	2:AA:2034:U:O2'	2.23	0.54
2:AA:2071:A:C2	2:AA:2441:C:N3	2.75	0.54
2:AA:2287:A:C2	2:AA:2289:G:C1'	2.90	0.54
2:AA:2356:C:OP1	27:A3:21:LEU:CD2	2.53	0.54
2:AA:2395:C:O5'	2:AA:2395:C:H6	1.90	0.54
2:AA:2654:A:H8	2:AA:2654:A:O5'	1.90	0.54
2:AA:2805:G:N7	2:AA:2807:G:C8	2.74	0.54
2:AA:2869:G:O2'	2:AA:2870:C:H5'	2.07	0.54
3:AC:117:PRO:HG3	3:AC:145:VAL:CG1	2.37	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:167:GLU:HB2	4:AD:170:TYR:CD1	2.37	0.54
5:AE:210:THR:HG22	5:AE:255:GLN:HE21	1.72	0.54
5:AE:211:GLN:H	5:AE:216:ARG:NE	2.06	0.54
5:AE:222:ARG:HH21	5:AE:234:ARG:CA	2.18	0.54
6:AF:83:ALA:O	6:AF:84:VAL:CG2	2.53	0.54
6:AF:111:VAL:CA	6:AF:220:THR:HG23	2.25	0.54
6:AF:239:ALA:CB	6:AF:242:GLU:OE2	2.45	0.54
7:AG:51:ARG:HH11	7:AG:72:LYS:CB	2.09	0.54
8:AH:76:GLU:O	8:AH:79:SER:OG	2.21	0.54
8:AH:94:ARG:HB3	8:AH:127:GLN:NE2	2.14	0.54
8:AH:117:GLU:HG2	8:AH:118:GLU:N	2.21	0.54
8:AH:148:ARG:CA	8:AH:161:ILE:HD12	2.36	0.54
10:AK:62:LEU:C	10:AK:66:LYS:CE	2.80	0.54
11:AL:33:VAL:HG22	11:AL:60:VAL:CG1	2.37	0.54
11:AL:72:THR:HG23	11:AL:115:ASP:H	1.70	0.54
12:AM:13:ASP:CA	12:AM:38:VAL:HG13	2.37	0.54
12:AM:18:ILE:O	12:AM:22:VAL:HG23	2.07	0.54
14:AO:125:PHE:O	14:AO:130:ARG:NE	2.40	0.54
15:AP:28:ILE:HG22	15:AP:29:ALA:H	1.72	0.54
15:AP:32:LYS:HE2	15:AP:32:LYS:O	2.07	0.54
19:AT:33:SER:N	19:AT:37:VAL:HG23	2.22	0.54
19:AT:50:GLU:CD	19:AT:69:SER:HB2	2.32	0.54
20:AU:22:GLN:O	20:AU:23:VAL:C	2.50	0.54
21:AV:118:HIS:CG	21:AV:167:THR:O	2.60	0.54
21:AV:147:ILE:HG13	21:AV:168:VAL:CG1	2.37	0.54
24:A0:20:LEU:O	24:A0:21:TYR:C	2.51	0.54
24:A0:36:THR:HB	24:A0:40:LYS:CB	2.37	0.54
24:A0:70:LEU:N	24:A0:70:LEU:HD23	2.23	0.54
27:A3:29:GLU:O	27:A3:31:VAL:HG23	2.07	0.54
27:A3:40:GLN:N	27:A3:69:PHE:HE1	2.05	0.54
27:A3:48:GLY:CA	27:A3:55:ARG:HA	2.37	0.54
28:A4:6:HIS:HB2	28:A4:56:VAL:CG2	2.36	0.54
29:A5:14:SER:O	29:A5:15:LYS:C	2.49	0.54
32:A8:15:LYS:HA	32:A8:16:ILE:HD12	1.89	0.54
34:BA:90:U:O2	34:BA:91:C:C5	2.61	0.54
34:BA:132:C:O2'	34:BA:133:U:O4'	2.25	0.54
34:BA:173:U:H5''	34:BA:197:A:H5'	1.90	0.54
34:BA:234:C:O2	34:BA:234:C:H2'	2.06	0.54
34:BA:319:G:H4'	34:BA:1468:A:C4'	2.36	0.54
34:BA:522:C:N4	34:BA:528:C:H42	2.05	0.54
34:BA:610:G:H2'	34:BA:611:A:C5'	2.34	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:695:A:H2	34:BA:787:A:C4'	2.20	0.54
34:BA:717:C:C2'	34:BA:718:G:OP2	2.55	0.54
34:BA:801:U:H2'	34:BA:801:U:O2	2.07	0.54
34:BA:859:A:H2'	34:BA:860:A:C5'	2.37	0.54
34:BA:877:C:OP1	43:BK:88:LYS:HD3	2.07	0.54
34:BA:939:G:C2	34:BA:940:C:N3	2.74	0.54
34:BA:959:A:C5'	34:BA:960:U:OP2	2.54	0.54
34:BA:971:G:C5	34:BA:1365:G:H5'	2.43	0.54
34:BA:1049:U:C5	34:BA:1201:A:O4'	2.60	0.54
34:BA:1074:G:C5	34:BA:1075:C:C6	2.95	0.54
34:BA:1160:G:N3	34:BA:1160:G:C2'	2.69	0.54
34:BA:1276:G:O2'	34:BA:1277:C:H5'	2.07	0.54
35:BB:63:C:H2'	35:BB:64:A:H8	1.72	0.54
35:BC:36:A:N1	36:B1:60:A:N1	2.55	0.54
36:B1:64:C:C6	36:B1:64:C:OP2	2.60	0.54
37:BE:70:PHE:HE2	37:BE:163:PHE:HB3	1.67	0.54
38:BF:28:GLN:O	38:BF:29:TYR:C	2.50	0.54
38:BF:98:ASN:C	38:BF:99:VAL:HG13	2.32	0.54
38:BF:159:GLY:O	38:BF:160:ALA:C	2.50	0.54
39:BG:191:ARG:HG3	39:BG:192:GLU:OE1	2.07	0.54
41:BI:75:LEU:HD13	41:BI:75:LEU:C	2.32	0.54
42:BJ:17:VAL:HG12	42:BJ:17:VAL:O	2.07	0.54
42:BJ:136:LYS:O	42:BJ:137:LYS:C	2.48	0.54
43:BK:64:LYS:CB	43:BK:79:VAL:HG21	2.37	0.54
44:BL:87:GLN:O	44:BL:90:PRO:HD3	2.07	0.54
55:BW:8:ARG:HB2	55:BW:8:ARG:CZ	2.35	0.54
55:BW:79:ARG:HG3	55:BW:79:ARG:HH11	1.71	0.54
1:AB:38:C:N4	1:AB:39:A:N6	2.54	0.54
2:AA:90:U:H4'	2:AA:91:A:C5'	2.38	0.54
2:AA:126:A:P	31:A7:44:VAL:HG21	2.47	0.54
2:AA:209:C:H2'	2:AA:210:C:H6	1.72	0.54
2:AA:220:G:H1	2:AA:427:U:H3'	1.72	0.54
2:AA:348:G:H3'	2:AA:349:G:H8	1.73	0.54
2:AA:398:G:C2	2:AA:399:G:C1'	2.90	0.54
2:AA:424:G:H21	2:AA:425:G:H1'	1.71	0.54
2:AA:465:G:O6	2:AA:466:A:N6	2.40	0.54
2:AA:508:G:C5'	2:AA:509:C:OP1	2.55	0.54
2:AA:529:A:HO2'	2:AA:530:G:P	2.31	0.54
2:AA:606:U:OP1	6:AF:105:LYS:HD2	2.06	0.54
2:AA:652:C:O5'	2:AA:652:C:H6	1.90	0.54
2:AA:654:A:H2	2:AA:655:A:C8	2.24	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:687:C:H4'	31:A7:4:THR:HG23	1.88	0.54
2:AA:729:G:OP1	4:AD:206:LYS:HD3	2.07	0.54
2:AA:873:G:P	15:AP:31:PHE:H	2.30	0.54
2:AA:946:G:H3'	2:AA:946:G:C8	2.43	0.54
2:AA:1006:C:C6	2:AA:1137:G:N2	2.75	0.54
2:AA:1022:G:H5'	12:AM:56:LYS:HZ1	1.72	0.54
2:AA:1055:G:C2	9:AI:28:LYS:CD	2.76	0.54
2:AA:1077:A:N7	2:AA:1078:U:N3	2.55	0.54
2:AA:1083:U:C4'	9:AI:40:ALA:CB	2.69	0.54
2:AA:1087:G:C5	2:AA:1103:A:C6	2.95	0.54
2:AA:1212:G:C2	2:AA:1236:G:N1	2.75	0.54
2:AA:1218:C:OP2	25:A1:15:LYS:NZ	2.40	0.54
2:AA:1259:G:H2'	2:AA:1260:G:C8	2.30	0.54
2:AA:1305:C:O2'	2:AA:1306:C:H5'	2.06	0.54
2:AA:1308:A:H2	2:AA:1608:A:H61	1.54	0.54
2:AA:1364:G:C5'	2:AA:1364:G:H8	2.18	0.54
2:AA:1467:C:O2'	2:AA:1468:C:H5'	2.06	0.54
2:AA:1518:C:C3'	2:AA:1519:G:C4'	2.83	0.54
2:AA:1642:G:O2'	2:AA:1643:G:H5'	2.08	0.54
2:AA:1707:G:C6	2:AA:1708:C:N4	2.76	0.54
2:AA:1767:C:H2'	2:AA:1768:U:O4'	2.08	0.54
2:AA:1906:G:C4	2:AA:1929:G:N7	2.75	0.54
2:AA:1940:U:C5'	2:AA:1941:C:OP1	2.50	0.54
2:AA:1942:C:C6	2:AA:1943:U:H5	2.25	0.54
2:AA:1944:U:C1'	2:AA:1955:U:H1'	2.36	0.54
2:AA:1975:G:C5	2:AA:1976:U:C5	2.95	0.54
2:AA:1984:G:C2	2:AA:1985:G:C8	2.95	0.54
2:AA:2010:G:C5	2:AA:2011:U:C5	2.96	0.54
2:AA:2093:G:H1	2:AA:2196:C:N4	2.05	0.54
2:AA:2256:G:O5'	27:A3:5:LYS:CE	2.55	0.54
2:AA:2283:C:C5	2:AA:2389:G:C4	2.96	0.54
2:AA:2352:A:C8	2:AA:2366:A:C6	2.95	0.54
2:AA:2409:G:H21	2:AA:2410:G:H1'	1.72	0.54
2:AA:2526:G:O6	2:AA:2538:C:N4	2.40	0.54
2:AA:2577:A:O2'	29:A5:4:HIS:CG	2.60	0.54
2:AA:2602:A:P	35:BC:75:C:OP1	2.65	0.54
2:AA:2619:C:O2'	2:AA:2620:C:O5'	2.24	0.54
2:AA:2634:G:C2	2:AA:2635:C:C6	2.96	0.54
2:AA:2734:A:H61	5:AE:316:ARG:CZ	2.19	0.54
2:AA:2779:U:C5'	2:AA:2780:G:O5'	2.49	0.54
2:AA:2845:G:O2'	2:AA:2846:G:O4'	2.19	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2880:C:O2	24:A0:93:GLY:CA	2.54	0.54
2:AA:2888:C:H6	2:AA:2888:C:O5'	1.89	0.54
3:AC:100:ILE:HA	3:AC:127:LEU:HD11	1.88	0.54
4:AD:140:VAL:CA	4:AD:191:VAL:HG12	2.37	0.54
5:AE:81:VAL:O	5:AE:82:ALA:CB	2.55	0.54
5:AE:189:MET:O	5:AE:190:ASN:CB	2.56	0.54
6:AF:93:LYS:HG3	6:AF:96:LYS:HE3	1.88	0.54
7:AG:103:ASN:HA	7:AG:104:PHE:CE1	2.42	0.54
7:AG:135:VAL:HA	7:AG:139:TYR:CD2	2.41	0.54
8:AH:35:THR:O	8:AH:36:PHE:CD1	2.59	0.54
8:AH:43:THR:OG1	8:AH:50:THR:CA	2.55	0.54
8:AH:48:VAL:C	8:AH:49:ILE:HG13	2.32	0.54
9:AI:7:ILE:HD11	11:AL:118:ALA:H	1.70	0.54
9:AI:62:VAL:O	9:AI:125:VAL:HG13	2.07	0.54
9:AJ:115:LYS:HZ3	9:AJ:127:LEU:HD13	1.71	0.54
10:AK:4:ILE:HD12	10:AK:37:ILE:HG22	1.89	0.54
10:AK:108:LEU:CD2	10:AK:109:LYS:N	2.68	0.54
12:AM:88:PRO:O	12:AM:88:PRO:CG	2.54	0.54
14:AO:61:ALA:HB1	14:AO:107:LYS:HE2	1.89	0.54
14:AO:62:ALA:H	14:AO:107:LYS:HE3	1.67	0.54
14:AO:104:ASP:O	14:AO:105:TYR:CD1	2.60	0.54
14:AO:117:GLU:OE2	14:AO:136:ALA:O	2.25	0.54
15:AP:86:ARG:NH2	15:AP:123:ILE:CD1	2.71	0.54
16:AQ:23:ARG:NH2	16:AQ:35:VAL:HG21	2.20	0.54
16:AQ:34:LEU:HA	16:AQ:47:LEU:HD23	1.88	0.54
16:AQ:118:ILE:HG23	16:AQ:119:GLN:N	2.22	0.54
17:AR:5:GLU:CD	17:AR:56:ARG:NH2	2.65	0.54
18:AS:74:ALA:HB1	18:AS:105:VAL:HG12	1.90	0.54
21:AV:69:VAL:HG13	21:AV:81:VAL:CA	2.36	0.54
22:AW:7:GLU:O	22:AW:10:ASP:HB2	2.06	0.54
24:A0:36:THR:HG21	24:A0:40:LYS:HB3	1.90	0.54
24:A0:67:LEU:C	24:A0:69:ASP:N	2.64	0.54
24:A0:76:VAL:CG1	24:A0:77:ARG:N	2.69	0.54
27:A3:7:VAL:HG22	35:BC:64:A:P	2.47	0.54
27:A3:42:GLY:CA	27:A3:65:GLY:O	2.55	0.54
27:A3:65:GLY:HA2	27:A3:66:LYS:HZ1	1.72	0.54
28:A4:18:GLY:H	28:A4:33:VAL:CG2	2.21	0.54
34:BA:271:C:H2'	34:BA:272:C:H6	1.71	0.54
34:BA:330:C:H2'	34:BA:331:G:H8	1.72	0.54
34:BA:373:A:C6	34:BA:482:A:N6	2.75	0.54
34:BA:434:U:H2'	34:BA:435:C:H6	1.70	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:451:A:C8	34:BA:481:G:N1	2.75	0.54
34:BA:532:A:O2'	34:BA:533:A:OP1	2.23	0.54
34:BA:658:G:O6	34:BA:747:C:N3	2.41	0.54
34:BA:663:A:H2	34:BA:742:G:H22	1.48	0.54
34:BA:938:A:C2	34:BA:939:G:C4	2.96	0.54
34:BA:942:G:N2	44:BL:124:GLN:NE2	2.47	0.54
34:BA:988:G:C6	34:BA:1217:C:N3	2.76	0.54
34:BA:1025:U:H2'	34:BA:1026:G:N7	2.21	0.54
34:BA:1053:G:C4'	34:BA:1054:C:H5'	2.37	0.54
34:BA:1214:C:O2'	34:BA:1215:G:OP1	2.25	0.54
34:BA:1260:C:O5'	34:BA:1284:C:H4'	2.06	0.54
34:BA:1273:G:H2'	34:BA:1274:G:O4'	2.07	0.54
34:BA:1279:A:H5''	34:BA:1280:A:OP1	2.06	0.54
34:BA:1349:A:C2'	34:BA:1350:A:H5'	2.37	0.54
34:BA:1422:G:C2	34:BA:1479:C:N3	2.75	0.54
34:BA:1464:G:C4	34:BA:1465:C:H5	2.24	0.54
35:BC:36:A:C2	35:BC:37:G:N9	2.76	0.54
38:BF:30:ARG:HG3	38:BF:31:HIS:N	2.22	0.54
39:BG:43:HIS:ND1	39:BG:46:LYS:CE	2.68	0.54
39:BG:60:GLU:OE2	39:BG:199:ASN:HB3	2.08	0.54
39:BG:92:VAL:O	39:BG:96:LEU:CD1	2.55	0.54
39:BG:98:GLU:CD	39:BG:103:ASN:ND2	2.52	0.54
39:BG:163:GLU:CG	39:BG:164:ALA:N	2.56	0.54
41:BI:28:ARG:HH11	41:BI:28:ARG:HG3	1.73	0.54
41:BI:79:LEU:N	41:BI:79:LEU:HD23	2.22	0.54
42:BJ:156:TRP:CD1	42:BJ:156:TRP:OXT	2.60	0.54
45:BM:75:ILE:O	45:BM:76:ASN:CB	2.55	0.54
46:BN:12:ARG:HD2	46:BN:75:TYR:CE2	2.43	0.54
46:BN:22:HIS:ND1	46:BN:29:ILE:HD11	2.21	0.54
47:BO:43:VAL:CG2	47:BO:55:VAL:HG21	2.36	0.54
48:BP:8:GLU:C	48:BP:10:PRO:HD2	2.32	0.54
48:BP:39:ILE:O	48:BP:40:ASN:C	2.50	0.54
50:BR:39:LEU:HD22	50:BR:56:LEU:CD1	2.36	0.54
51:BS:60:LEU:O	51:BS:62:VAL:O	2.26	0.54
52:BT:91:ARG:HA	52:BT:94:ASN:HD22	1.72	0.54
52:BT:96:GLN:NE2	52:BT:97:SER:CA	2.70	0.54
53:BU:73:ALA:O	53:BU:74:ARG:C	2.45	0.54
55:BW:91:LEU:C	55:BW:93:GLU:N	2.64	0.54
2:AA:182:A:O2'	2:AA:183:C:H5'	2.06	0.54
2:AA:270(I):G:H1	2:AA:270(Q):C:H42	0.73	0.54
2:AA:273:G:C6	2:AA:273(A):G:O6	2.60	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:285:C:C3'	2:AA:286:C:C6	2.91	0.54
2:AA:338:G:N7	20:AU:18:GLU:HG3	2.22	0.54
2:AA:519:U:H5'	18:AS:75:TYR:HB2	1.89	0.54
2:AA:535:C:O3'	2:AA:994:C:N3	2.40	0.54
2:AA:653:A:H5'	2:AA:654:A:H4'	1.90	0.54
2:AA:858:U:H3'	2:AA:859:G:O4'	2.07	0.54
2:AA:875:G:H2'	2:AA:876:C:C6	2.42	0.54
2:AA:876:C:C4	2:AA:877:U:C4	2.95	0.54
2:AA:885:C:H6	2:AA:885:C:H3'	1.71	0.54
2:AA:974:G:O3'	26:A2:82:ARG:NH2	2.40	0.54
2:AA:988:A:H4'	2:AA:1155:A:C2	2.42	0.54
2:AA:1021:A:N7	2:AA:1140:C:N4	2.52	0.54
2:AA:1022:G:P	12:AM:52:GLN:NE2	2.81	0.54
2:AA:1137:G:O2'	12:AM:82:THR:HA	2.08	0.54
2:AA:1143:A:N3	2:AA:1144:G:C8	2.75	0.54
2:AA:1339:G:N2	2:AA:1603:A:C8	2.72	0.54
2:AA:1392:A:H2'	2:AA:1393:A:N9	2.22	0.54
2:AA:1467:C:O4'	2:AA:1467:C:OP1	2.25	0.54
2:AA:1492:G:H22	2:AA:1499:C:N4	2.03	0.54
2:AA:1605:C:C5	2:AA:1606:G:C4	2.96	0.54
2:AA:1658:C:OP1	5:AE:230:GLY:CA	2.56	0.54
2:AA:1789:A:H2'	2:AA:1790:C:O4'	2.07	0.54
2:AA:1913:A:N3	2:AA:1913:A:C2'	2.70	0.54
2:AA:2018:G:C6	2:AA:2019:A:C5	2.95	0.54
2:AA:2049:G:N2	2:AA:2620:C:C2	2.75	0.54
2:AA:2254:C:H2'	2:AA:2255:G:C5'	2.36	0.54
2:AA:2302:G:C6	2:AA:2315:G:C6	2.96	0.54
2:AA:2338:G:O5'	2:AA:2338:G:H8	1.91	0.54
2:AA:2340:G:C2	2:AA:2341:G:C8	2.95	0.54
2:AA:2460:U:C6	2:AA:2461:C:C5	2.95	0.54
2:AA:2492:U:N3	2:AA:2493:U:C5	2.76	0.54
2:AA:2691:C:C4	2:AA:2719:G:N2	2.76	0.54
2:AA:2706:G:C2	2:AA:2707:G:C5	2.96	0.54
3:AC:56:GLN:HG3	3:AC:201:PRO:CG	2.36	0.54
5:AE:201:VAL:H	5:AE:266:LYS:CD	2.18	0.54
5:AE:211:GLN:NE2	5:AE:216:ARG:N	2.54	0.54
9:AI:17:GLU:O	9:AI:21:LEU:HB2	2.07	0.54
9:AI:25:LEU:HA	9:AI:28:LYS:HG3	1.90	0.54
9:AI:25:LEU:O	9:AI:28:LYS:HB2	2.07	0.54
9:AJ:42:ALA:HB3	9:AJ:43:PRO:CD	2.35	0.54
10:AK:4:ILE:CD1	10:AK:38:GLU:C	2.80	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:75:ALA:O	11:AL:76:SER:C	2.49	0.54
12:AM:15:ARG:HD3	12:AM:43:ARG:HH11	1.71	0.54
15:AP:133:GLU:C	15:AP:133:GLU:CD	2.75	0.54
16:AQ:22:GLN:OE1	16:AQ:22:GLN:C	2.49	0.54
16:AQ:87:LEU:O	16:AQ:88:ALA:C	2.51	0.54
18:AS:81:ALA:CB	18:AS:99:ARG:HH11	2.20	0.54
19:AT:16:ASN:HD22	19:AT:20:PHE:HZ	1.54	0.54
21:AV:3:LEU:HB3	21:AV:34:LEU:CB	2.25	0.54
21:AV:26:LYS:CD	21:AV:27:GLU:OE2	2.52	0.54
21:AV:53:ASP:CG	21:AV:54:ILE:N	2.56	0.54
21:AV:103:ARG:NH1	21:AV:137:ASP:HB2	2.23	0.54
21:AV:116:VAL:C	21:AV:118:HIS:N	2.62	0.54
21:AV:138:VAL:O	21:AV:140:LYS:HG3	2.08	0.54
25:A1:63:GLN:O	25:A1:66:ASN:N	2.39	0.54
25:A1:65:ILE:CG1	25:A1:96:ALA:HB2	2.37	0.54
26:A2:6:GLN:OE1	26:A2:10:LYS:CG	2.55	0.54
32:A8:26:LYS:HE3	32:A8:45:GLY:N	2.23	0.54
34:BA:15:G:C2	34:BA:16:A:N7	2.75	0.54
34:BA:152:A:H62	34:BA:169:C:N4	2.05	0.54
34:BA:242:C:H2'	34:BA:243:A:H5'	1.90	0.54
34:BA:246:A:N6	34:BA:281:G:N2	2.55	0.54
34:BA:296:U:C2	34:BA:297:G:C8	2.94	0.54
34:BA:378:G:H2'	34:BA:379:C:H6	1.72	0.54
34:BA:499:A:C4	34:BA:547:A:C6	2.95	0.54
34:BA:523:A:N6	47:BO:53:ARG:NH2	2.49	0.54
34:BA:596:C:N4	34:BA:645:C:C2	2.75	0.54
34:BA:671:G:H2'	34:BA:671:G:N3	2.22	0.54
34:BA:838:G:C2	34:BA:849:C:N3	2.76	0.54
34:BA:858:G:H1	34:BA:869:G:H3'	1.73	0.54
34:BA:902:G:H2'	34:BA:903:G:O4'	2.08	0.54
34:BA:909:A:O5'	34:BA:909:A:C8	2.61	0.54
34:BA:924:C:H2'	34:BA:925:G:C8	2.42	0.54
34:BA:1026:G:H2'	34:BA:1027:C:C5'	2.31	0.54
34:BA:1032:G:C2'	34:BA:1033:G:O4'	2.55	0.54
34:BA:1137:C:H5'	34:BA:1138:G:N1	2.22	0.54
34:BA:1148:U:C4	34:BA:1149:C:N3	2.76	0.54
34:BA:1308:U:C5'	48:BP:110:ARG:HH22	2.20	0.54
34:BA:1392:G:O2'	34:BA:1502:A:H5'	2.06	0.54
34:BA:1441:G:H2'	34:BA:1460:A:H61	1.72	0.54
34:BA:1476:G:C8	34:BA:1476:G:O5'	2.60	0.54
34:BA:1532:U:C6	34:BA:1532:U:C3'	2.81	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:74:C:H2'	35:BB:75:C:C4'	2.36	0.54
35:BC:24:G:O2'	35:BC:25:C:H5'	2.07	0.54
35:BC:71:G:O2'	35:BC:72:C:H5'	2.08	0.54
37:BE:77:ALA:HB2	37:BE:211:ILE:CD1	2.37	0.54
38:BF:191:THR:C	38:BF:193:TYR:H	2.15	0.54
39:BG:30:LYS:C	39:BG:32:ALA:N	2.59	0.54
39:BG:101:LEU:CB	39:BG:138:TYR:O	2.55	0.54
39:BG:191:ARG:NH1	39:BG:194:LEU:O	2.40	0.54
42:BJ:5:ARG:O	42:BJ:6:ARG:CB	2.53	0.54
42:BJ:45:ASP:C	42:BJ:49:ILE:HD12	2.33	0.54
43:BK:11:THR:O	43:BK:12:ARG:C	2.49	0.54
43:BK:28:ALA:HA	43:BK:59:LEU:HB2	1.89	0.54
43:BK:47:GLY:O	43:BK:61:VAL:CG1	2.50	0.54
43:BK:82:HIS:HB3	43:BK:138:TRP:CD1	2.42	0.54
44:BL:53:VAL:HG12	44:BL:53:VAL:O	2.08	0.54
46:BN:40:ILE:C	46:BN:41:THR:HG23	2.33	0.54
46:BN:65:ALA:HB1	46:BN:98:LEU:HG	1.88	0.54
47:BO:76:ASN:O	47:BO:77:LEU:CB	2.54	0.54
47:BO:84:LEU:H	47:BO:104:VAL:CG1	2.14	0.54
49:BQ:14:PRO:HB2	49:BQ:16:PHE:O	2.07	0.54
49:BQ:58:LYS:NZ	49:BQ:59:ALA:O	2.40	0.54
52:BT:43:LEU:CD2	52:BT:44:ALA:N	2.69	0.54
52:BT:75:ARG:NH1	52:BT:76:LEU:C	2.65	0.54
55:BW:76:ALA:O	55:BW:77:ALA:C	2.46	0.54
56:BX:7:ARG:O	56:BX:7:ARG:HG3	2.07	0.54
1:AB:37:C:H42	1:AB:48:A:HO2'	1.53	0.54
1:AB:38:C:O5'	1:AB:38:C:H6	1.91	0.54
2:AA:9:U:H2'	2:AA:9:U:O2	2.06	0.54
2:AA:145:G:H21	2:AA:146:G:H1'	1.72	0.54
2:AA:244:A:OP1	14:AO:52:LYS:NZ	2.40	0.54
2:AA:452:G:N2	2:AA:457:A:H2	2.03	0.54
2:AA:583:G:H2'	2:AA:584:C:O5'	2.08	0.54
2:AA:585:G:H2'	2:AA:586:A:N7	2.22	0.54
2:AA:627:A:N7	14:AO:109:LEU:CD2	2.70	0.54
2:AA:643:A:H3'	2:AA:643:A:H8	1.72	0.54
2:AA:785:G:N2	2:AA:786:C:C1'	2.70	0.54
2:AA:835:A:C4'	2:AA:2358:G:H1'	2.38	0.54
2:AA:1020:A:C2'	2:AA:1021:A:OP2	2.56	0.54
2:AA:1023:U:O4	2:AA:1024:G:N3	2.40	0.54
2:AA:1031:G:H4'	33:A9:8:LYS:HZ3	1.73	0.54
2:AA:1050:A:N6	2:AA:2751:G:C5	2.76	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1085:A:O2'	2:AA:1086:A:C5'	2.55	0.54
2:AA:1248:G:O2'	2:AA:1249:U:P	2.66	0.54
2:AA:1281:G:O2'	2:AA:1282:U:H5'	2.07	0.54
2:AA:1341:U:HO2'	2:AA:1342:A:P	2.28	0.54
2:AA:1341:U:C2'	19:AT:53:ASN:OD1	2.55	0.54
2:AA:1353:A:C6	2:AA:1354:A:N7	2.76	0.54
2:AA:1381:G:C6	2:AA:1382:G:C5	2.96	0.54
2:AA:1413:G:C6	2:AA:1414:G:N7	2.76	0.54
2:AA:1414:G:C2	2:AA:1415:U:N3	2.75	0.54
2:AA:1527:G:N2	2:AA:1544:C:C2	2.75	0.54
2:AA:1567:A:N1	4:AD:84:PRO:HD3	2.22	0.54
2:AA:1741:C:H2'	2:AA:1741:C:O2	2.06	0.54
2:AA:1773:A:H3'	2:AA:1773:A:C8	2.43	0.54
2:AA:1961:C:H2'	2:AA:1962:C:O4'	2.07	0.54
2:AA:1970:A:O2'	2:AA:1971:A:P	2.65	0.54
2:AA:2022:U:O4	29:A5:9:LYS:NZ	2.40	0.54
2:AA:2329:G:O2'	2:AA:2330:G:H5'	2.08	0.54
2:AA:2391:G:O2'	2:AA:2392:A:C5'	2.51	0.54
2:AA:2656:U:N3	2:AA:2665:A:N6	2.55	0.54
2:AA:2877:G:C2	2:AA:2878:U:C2	2.96	0.54
4:AD:149:ARG:H	4:AD:152:GLN:HE22	1.55	0.54
5:AE:70:VAL:HG22	5:AE:296:VAL:C	2.32	0.54
5:AE:70:VAL:CG1	5:AE:296:VAL:O	2.49	0.54
5:AE:222:ARG:CZ	5:AE:232:ARG:O	2.56	0.54
5:AE:228:ARG:O	5:AE:229:GLN:C	2.51	0.54
6:AF:89:ALA:HB1	6:AF:90:HIS:NE2	2.22	0.54
7:AG:24:HIS:HB2	7:AG:72:LYS:CD	2.38	0.54
8:AH:34:ARG:CG	8:AH:35:THR:H	2.17	0.54
8:AH:66:THR:HG22	8:AH:67:THR:N	2.22	0.54
9:AJ:71:ILE:HG12	11:AL:62:GLU:N	2.21	0.54
10:AK:2:LYS:HG3	10:AK:18:ILE:HD12	1.89	0.54
10:AK:12:LYS:NZ	10:AK:14:LYS:CE	2.70	0.54
10:AK:133:LEU:HD11	10:AK:139:ALA:CB	2.37	0.54
11:AL:52:MET:CA	11:AL:81:LYS:HE3	2.37	0.54
12:AM:60:ARG:HA	12:AM:71:TYR:CE2	2.42	0.54
13:AN:74:GLY:O	17:AR:17:THR:HG21	2.08	0.54
14:AO:124:ASP:C	14:AO:125:PHE:CD1	2.85	0.54
15:AP:136:TRP:HA	15:AP:136:TRP:HE3	1.71	0.54
16:AQ:49:THR:N	16:AQ:55:ASP:CG	2.66	0.54
17:AR:14:GLU:O	17:AR:18:GLY:N	2.35	0.54
20:AU:14:ALA:CB	20:AU:15:PRO:CD	2.85	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:46:ASP:O	20:AU:62:VAL:CB	2.53	0.54
21:AV:18:MET:N	21:AV:36:ARG:NE	2.55	0.54
21:AV:44:ARG:O	21:AV:45:GLN:C	2.49	0.54
21:AV:99:HIS:O	21:AV:137:ASP:CG	2.51	0.54
21:AV:166:LEU:HD13	21:AV:167:THR:HG23	1.89	0.54
23:AX:17:LYS:O	23:AX:20:LYS:N	2.41	0.54
23:AX:18:ASP:O	23:AX:21:ALA:CA	2.56	0.54
23:AX:38:GLU:OE1	23:AX:40:THR:CG2	2.56	0.54
23:AX:50:VAL:O	23:AX:53:LEU:HB2	2.06	0.54
26:A2:15:SER:HB2	26:A2:99:GLN:CD	2.32	0.54
26:A2:30:GLY:O	26:A2:31:ASP:O	2.25	0.54
26:A2:36:LYS:HA	26:A2:60:VAL:HG22	1.90	0.54
26:A2:69:ILE:CA	26:A2:90:PHE:O	2.55	0.54
26:A2:76:SER:HG	26:A2:84:THR:C	2.14	0.54
34:BA:70:G:C6	34:BA:73:C:N4	2.75	0.54
34:BA:328:C:O2'	34:BA:329:A:P	2.66	0.54
34:BA:350:G:C2	34:BA:351:G:C2	2.96	0.54
34:BA:463:A:N7	34:BA:474:G:N7	2.55	0.54
34:BA:463:A:P	51:BS:75:ARG:HH22	2.31	0.54
34:BA:511:C:O2'	34:BA:512:U:P	2.65	0.54
34:BA:596:C:H2'	34:BA:596:C:O2	2.07	0.54
34:BA:664:G:H1'	34:BA:726:C:H4'	1.90	0.54
34:BA:729:A:C2'	34:BA:730:G:O5'	2.55	0.54
34:BA:787:A:C2'	34:BA:788:U:O5'	2.56	0.54
34:BA:889:A:C5'	34:BA:890:G:OP1	2.53	0.54
34:BA:1037:C:O2'	34:BA:1038:C:H5'	2.08	0.54
34:BA:1052:U:H5''	34:BA:1053:G:OP2	2.07	0.54
34:BA:1119:C:O5'	34:BA:1119:C:H6	1.90	0.54
34:BA:1224:G:O2'	34:BA:1225:A:OP1	2.24	0.54
34:BA:1264:C:O2'	34:BA:1265:G:H5'	2.07	0.54
34:BA:1392:G:H2'	34:BA:1393:U:C5	2.36	0.54
35:BB:11:C:C2	35:BB:12:U:C4	2.96	0.54
35:BB:56:C:C4'	35:BB:56:C:H6	2.19	0.54
35:BC:21:A:N7	35:BC:46:G:O6	2.41	0.54
35:BC:55:U:C2	35:BC:58:A:OP2	2.61	0.54
37:BE:69:LEU:HD13	37:BE:70:PHE:N	2.22	0.54
37:BE:199:TYR:O	37:BE:201:ILE:HD13	2.08	0.54
38:BF:152:ILE:HB	38:BF:199:LYS:HB2	1.88	0.54
38:BF:173:VAL:O	38:BF:175:LEU:N	2.40	0.54
41:BI:20:ALA:O	41:BI:24:GLU:HB3	2.06	0.54
42:BJ:12:LEU:O	42:BJ:14:PRO:CD	2.55	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:14:PRO:HD3	42:BJ:21:VAL:CG1	2.38	0.54
42:BJ:49:ILE:HG22	42:BJ:125:MET:CE	2.38	0.54
43:BK:14:ARG:O	43:BK:17:THR:CB	2.55	0.54
44:BL:99:LEU:N	44:BL:99:LEU:HD22	2.22	0.54
45:BM:40:LEU:CD1	45:BM:71:LEU:HG	2.38	0.54
45:BM:51:ARG:HB2	45:BM:59:SER:CB	2.18	0.54
47:BO:93:LEU:HG	47:BO:96:VAL:CG2	2.37	0.54
48:BP:81:LEU:HD23	48:BP:89:GLY:CA	2.37	0.54
48:BP:108:ARG:CZ	48:BP:111:LYS:HB3	2.37	0.54
55:BW:57:ARG:HH21	55:BW:100:ILE:CB	2.20	0.54
1:AB:17:C:C2'	1:AB:18:G:C8	2.90	0.54
2:AA:17:G:OP1	29:A5:13:LYS:NZ	2.41	0.54
2:AA:135:G:H1	2:AA:144:C:H42	0.63	0.54
2:AA:137:C:O4'	2:AA:137:C:P	2.66	0.54
2:AA:197:A:H2'	2:AA:198:C:H6	1.71	0.54
2:AA:272:G:H2'	2:AA:273:G:C8	2.42	0.54
2:AA:273(D):C:H2'	2:AA:273(E):U:H5'	1.88	0.54
2:AA:286:C:C4	2:AA:287:C:C5	2.96	0.54
2:AA:339:U:C4	2:AA:340:A:N6	2.75	0.54
2:AA:528:A:N6	2:AA:2042:A:H8	2.05	0.54
2:AA:543:C:C4	2:AA:551:G:N1	2.76	0.54
2:AA:604:G:N2	2:AA:657:U:H5''	2.22	0.54
2:AA:715:G:H3'	2:AA:715:G:P	2.44	0.54
2:AA:792:G:HO2'	2:AA:793:A:P	2.29	0.54
2:AA:965:C:H4'	2:AA:2273:A:N3	2.22	0.54
2:AA:1021:A:C2	2:AA:1122:G:C5'	2.89	0.54
2:AA:1024:G:N7	2:AA:1025:G:C4	2.76	0.54
2:AA:1111:A:H4'	2:AA:1112:G:O5'	2.08	0.54
2:AA:1245:G:H2'	2:AA:1246:A:H5'	1.89	0.54
2:AA:1248:G:C8	25:A1:2:PRO:CB	2.90	0.54
2:AA:1300:U:HO2'	2:AA:1301:A:P	2.31	0.54
2:AA:1342:A:N7	2:AA:1601:G:O6	2.40	0.54
2:AA:1362:C:H2'	2:AA:1363:C:C6	2.41	0.54
2:AA:1453:A:C6	24:A0:77:ARG:HD3	2.42	0.54
2:AA:1454:U:O2	2:AA:1454:U:C2'	2.47	0.54
2:AA:1680:U:O2	2:AA:1764:G:C5'	2.56	0.54
2:AA:1776:G:C2	2:AA:1777:U:C2	2.95	0.54
2:AA:1782:C:H41	2:AA:2587:A:N6	2.00	0.54
2:AA:1805:U:H3'	2:AA:1805:U:P	2.48	0.54
2:AA:1881:C:H6	2:AA:1881:C:H5''	1.73	0.54
2:AA:2003:G:O6	2:AA:2004:G:C6	2.61	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2045:C:H2'	2:AA:2046:G:O4'	2.08	0.54
2:AA:2065:C:H2'	2:AA:2066:C:C6	2.42	0.54
2:AA:2108:C:H3'	2:AA:2109:U:C6	2.42	0.54
2:AA:2307:G:C1'	2:AA:2311:A:N6	2.68	0.54
2:AA:2309:A:H5''	2:AA:2310:A:OP2	2.08	0.54
2:AA:2376:A:H61	16:AQ:109:PRO:CG	2.20	0.54
2:AA:2396:G:N3	2:AA:2396:G:C2'	2.70	0.54
2:AA:2403:C:C2	2:AA:2404:C:C6	2.96	0.54
2:AA:2450:A:C2	2:AA:2451:A:H1'	2.42	0.54
2:AA:2527:C:O3'	33:A9:30:VAL:CG1	2.56	0.54
2:AA:2569:G:N3	2:AA:2570:G:C8	2.75	0.54
2:AA:2570:G:H3'	2:AA:2571:C:H6	1.72	0.54
2:AA:2634:G:H2'	2:AA:2635:C:O5'	2.07	0.54
2:AA:2653:U:OP2	2:AA:2654:A:H3'	2.07	0.54
2:AA:2678:C:H42	2:AA:2729:G:H1	1.55	0.54
2:AA:2811:G:O2'	2:AA:2812:G:H5'	2.08	0.54
5:AE:200:ASP:HA	5:AE:266:LYS:CG	2.38	0.54
5:AE:205:THR:HG21	5:AE:259:HIS:H	1.72	0.54
5:AE:225:LYS:HA	5:AE:228:ARG:HH12	1.72	0.54
6:AF:93:LYS:O	6:AF:94:THR:C	2.49	0.54
6:AF:111:VAL:O	6:AF:115:LEU:HD23	2.08	0.54
7:AG:13:MET:HE2	7:AG:137:PRO:CB	2.36	0.54
7:AG:83:PHE:O	7:AG:84:LEU:C	2.50	0.54
8:AH:83:GLU:OE2	8:AH:84:LYS:N	2.40	0.54
8:AH:114:ILE:HG21	8:AH:147:ILE:HD13	1.89	0.54
9:AI:20:GLU:OE1	9:AJ:53:GLN:CD	2.51	0.54
9:AJ:61:VAL:HG13	9:AJ:115:LYS:HG2	1.89	0.54
9:AJ:63:LEU:HD13	9:AJ:66:PHE:CE1	2.42	0.54
10:AK:76:THR:HG22	10:AK:142:LYS:HE2	1.88	0.54
11:AL:65:SER:O	11:AL:66:PHE:HB2	2.08	0.54
13:AN:23:LYS:HB3	13:AN:40:VAL:HB	1.89	0.54
13:AN:43:VAL:HB	13:AN:55:GLY:N	2.23	0.54
13:AN:64:ARG:NH1	13:AN:100:GLY:HA3	2.22	0.54
13:AN:97:ARG:HA	13:AN:117:LEU:CD1	2.24	0.54
15:AP:16:ARG:NH1	15:AP:19:TYR:CD1	2.76	0.54
16:AQ:26:LEU:O	16:AQ:27:LEU:C	2.50	0.54
16:AQ:100:ALA:CB	16:AQ:127:LEU:HD21	2.34	0.54
19:AT:54:THR:HG22	19:AT:64:ALA:CB	2.36	0.54
19:AT:56:ASN:N	19:AT:56:ASN:ND2	2.56	0.54
20:AU:29:ALA:O	20:AU:33:GLU:OE2	2.25	0.54
20:AU:86:GLU:O	20:AU:87:VAL:HG23	2.08	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:103:LEU:HA	20:AU:108:ARG:CB	2.37	0.54
21:AV:55:THR:HG23	21:AV:61:THR:HG21	1.89	0.54
21:AV:95:SER:HA	21:AV:121:GLN:O	2.06	0.54
24:A0:20:LEU:HD13	24:A0:24:GLN:HG3	1.88	0.54
24:A0:93:GLY:C	24:A0:95:THR:N	2.66	0.54
26:A2:68:LYS:O	26:A2:69:ILE:C	2.51	0.54
26:A2:69:ILE:CG2	26:A2:89:ASN:C	2.81	0.54
31:A7:38:GLY:C	31:A7:40:HIS:CE1	2.85	0.54
32:A8:26:LYS:NZ	32:A8:43:GLY:HA2	2.21	0.54
33:A9:30:VAL:O	33:A9:32:HIS:N	2.40	0.54
34:BA:25:C:H4'	34:BA:524:G:N2	2.21	0.54
34:BA:35:G:O2'	34:BA:36:C:H5'	2.08	0.54
34:BA:144:G:C2	34:BA:179:A:C2	2.95	0.54
34:BA:187:C:H2'	34:BA:188:C:H6	1.72	0.54
34:BA:280:C:C1'	52:BT:38:ARG:NE	2.66	0.54
34:BA:293:G:H4'	34:BA:609:A:N1	2.22	0.54
34:BA:319:G:C5'	34:BA:1468:A:H4'	2.37	0.54
34:BA:449:C:C2	34:BA:450:G:C1'	2.88	0.54
34:BA:597:G:C8	34:BA:644:G:N2	2.76	0.54
34:BA:789:U:O2'	34:BA:791:G:N7	2.41	0.54
34:BA:1054:C:C2'	34:BA:1055:A:H5''	2.38	0.54
34:BA:1108:G:N7	34:BA:1109:C:C4	2.75	0.54
34:BA:1111:A:C2	34:BA:1112:C:N3	2.76	0.54
34:BA:1128:C:O2	34:BA:1130:A:C5	2.61	0.54
34:BA:1306:A:H2'	34:BA:1307:U:H5'	1.88	0.54
34:BA:1430:C:C2	34:BA:1471:G:C2	2.95	0.54
34:BA:1531:A:C8	34:BA:1531:A:OP2	2.61	0.54
34:BA:1535:C:N4	36:B1:55:U:O4	2.38	0.54
35:BB:3:G:O2'	35:BB:4:G:H5'	2.07	0.54
35:BB:53:G:N2	35:BB:54:U:C2	2.75	0.54
35:BB:65:G:C2	35:BB:66:A:N7	2.75	0.54
35:BC:55:U:C2'	35:BC:57:G:N7	2.70	0.54
37:BE:9:GLU:CG	37:BE:217:ARG:NH2	2.60	0.54
37:BE:131:PRO:HA	37:BE:132:LYS:HE2	1.89	0.54
37:BE:131:PRO:HB2	37:BE:133:LYS:HG2	1.90	0.54
37:BE:160:ASP:O	37:BE:161:ALA:CB	2.55	0.54
37:BE:163:PHE:CD2	37:BE:164:VAL:N	2.76	0.54
37:BE:213:LEU:O	37:BE:217:ARG:HG2	2.07	0.54
38:BF:49:SER:C	38:BF:51:GLY:H	2.14	0.54
38:BF:116:VAL:HG21	38:BF:141:VAL:HG22	1.88	0.54
38:BF:182:ILE:CG2	38:BF:202:ILE:O	2.56	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:8:VAL:C	39:BG:10:ARG:H	2.14	0.54
39:BG:19:LEU:HA	39:BG:21:LEU:HG	1.90	0.54
40:BH:127:ASN:OD1	40:BH:130:ASN:N	2.41	0.54
40:BH:141:GLN:CA	40:BH:143:ARG:NH2	2.66	0.54
40:BH:144:THR:HG22	40:BH:146:ALA:H	1.72	0.54
44:BL:43:ALA:O	44:BL:45:ALA:N	2.40	0.54
45:BM:14:LYS:O	45:BM:17:ASP:HB2	2.08	0.54
45:BM:87:THR:O	45:BM:88:LEU:HD23	2.08	0.54
47:BO:29:GLY:O	47:BO:30:ALA:O	2.25	0.54
48:BP:98:VAL:HG23	48:BP:110:ARG:HH21	1.72	0.54
50:BR:4:THR:HB	50:BR:6:GLU:OE2	2.08	0.54
51:BS:43:LYS:HG3	51:BS:48:TRP:CZ3	2.42	0.54
51:BS:54:GLU:O	51:BS:57:ARG:N	2.41	0.54
52:BT:5:VAL:C	52:BT:6:LEU:CD1	2.73	0.54
53:BU:30:ASP:C	53:BU:32:ARG:N	2.65	0.54
54:BV:5:LEU:O	54:BV:6:LYS:HB2	2.08	0.54
55:BW:25:ARG:O	55:BW:28:ALA:HB3	2.06	0.54
55:BW:61:SER:O	55:BW:62:LEU:C	2.46	0.54
1:AB:24:G:C6	1:AB:56:G:N3	2.75	0.54
1:AB:31:C:C2	1:AB:32:C:C5	2.94	0.54
2:AA:27:G:C8	2:AA:27:G:H3'	2.43	0.54
2:AA:126:A:C4'	31:A7:19:ARG:HE	2.19	0.54
2:AA:205:G:O2'	2:AA:206:U:OP2	2.26	0.54
2:AA:398:G:OP2	28:A4:59:PHE:CZ	2.61	0.54
2:AA:587:C:O2'	2:AA:588:U:P	2.66	0.54
2:AA:638:G:C4	2:AA:639:U:O2	2.60	0.54
2:AA:859:G:N2	2:AA:917:A:OP2	2.40	0.54
2:AA:874:G:N3	2:AA:874:G:H2'	2.21	0.54
2:AA:999:U:C2'	2:AA:1000:A:H5'	2.38	0.54
2:AA:1005:C:C5	2:AA:1143:A:H5''	2.42	0.54
2:AA:1026:U:C6	2:AA:1026:U:C3'	2.90	0.54
2:AA:1061:U:H2'	11:AL:12:GLN:NE2	2.23	0.54
2:AA:1064:C:H3'	2:AA:1065:U:C5	2.42	0.54
2:AA:1155:A:C4'	25:A1:55:ARG:HH12	2.17	0.54
2:AA:1203:G:C5	2:AA:1206:G:N7	2.75	0.54
2:AA:1243:G:C4	2:AA:1244:G:N7	2.75	0.54
2:AA:1426:G:N7	2:AA:1427:A:N7	2.55	0.54
2:AA:1496:A:H2'	2:AA:1497:U:C6	2.42	0.54
2:AA:1521:G:H5'	2:AA:1522:G:N7	2.22	0.54
2:AA:1523:U:N3	2:AA:1524:G:C4	2.75	0.54
2:AA:1624:G:C5	2:AA:1625:C:N4	2.73	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1633:G:O6	2:AA:1635:G:N2	2.41	0.54
2:AA:1655:A:H5'	5:AE:211:GLN:HA	1.85	0.54
2:AA:1696:G:H2'	2:AA:1697:G:O4'	2.08	0.54
2:AA:1785:A:H3'	2:AA:1785:A:H8	1.71	0.54
2:AA:1856:G:N7	2:AA:1857:G:C2	2.75	0.54
2:AA:1914:C:OP1	2:AA:1915:U:OP2	2.26	0.54
2:AA:1926:U:N3	2:AA:1929:G:C2	2.76	0.54
2:AA:1975:G:C2'	2:AA:1976:U:O5'	2.56	0.54
2:AA:2070:G:C6	2:AA:2071:A:C6	2.95	0.54
2:AA:2078:C:H5'	2:AA:2434:A:C4'	2.38	0.54
2:AA:2146:C:C2'	2:AA:2147:G:N3	2.61	0.54
2:AA:2256:G:O5'	27:A3:5:LYS:HE2	2.07	0.54
2:AA:2308:G:C5'	2:AA:2309:A:OP1	2.44	0.54
2:AA:2312:U:O2'	7:AG:72:LYS:CE	2.56	0.54
2:AA:2349:G:C6	2:AA:2369:A:C6	2.95	0.54
2:AA:2354:G:O4'	27:A3:31:VAL:CG2	2.53	0.54
2:AA:2355:C:C4	2:AA:2356:C:C4	2.95	0.54
2:AA:2357:U:O5'	2:AA:2357:U:H6	1.91	0.54
2:AA:2385:C:HO2'	2:AA:2386:C:P	2.31	0.54
2:AA:2396:G:N2	2:AA:2397:G:C4	2.76	0.54
2:AA:2400:G:O2'	30:A6:20:PHE:CE1	2.59	0.54
2:AA:2461:C:C2	2:AA:2462:U:C5	2.96	0.54
2:AA:2476:A:C2	2:AA:2481:G:N2	2.75	0.54
2:AA:2492:U:O2'	2:AA:2493:U:C5'	2.56	0.54
2:AA:2538:C:O2'	2:AA:2539:C:C5'	2.56	0.54
2:AA:2554:U:H3'	2:AA:2554:U:C6	2.42	0.54
2:AA:2563:U:H4'	13:AN:27:GLY:HA2	1.87	0.54
2:AA:2588:G:C2'	2:AA:2589:A:H5'	2.37	0.54
2:AA:2633:G:C2	2:AA:2634:G:C4	2.96	0.54
2:AA:2845:G:H3'	2:AA:2845:G:OP2	2.07	0.54
3:AC:84:LYS:HD3	3:AC:87:GLU:OE1	2.08	0.54
3:AC:199:HIS:O	3:AC:200:LYS:C	2.49	0.54
4:AD:154:VAL:CG2	4:AD:160:SER:HA	2.29	0.54
5:AE:41:PHE:HZ	5:AE:173:ARG:CD	2.20	0.54
5:AE:247:ARG:HB2	5:AE:249:THR:HG1	1.73	0.54
5:AE:268:LEU:C	5:AE:297:LYS:HE2	2.32	0.54
6:AF:39:GLN:CD	6:AF:39:GLN:N	2.63	0.54
6:AF:161:ASP:O	6:AF:162:VAL:CG2	2.45	0.54
7:AG:41:LEU:HA	7:AG:44:ILE:HD12	1.90	0.54
9:AJ:89:LYS:HE2	11:AL:61:TYR:CD2	2.43	0.54
10:AK:100:GLU:O	10:AK:104:ALA:CB	2.55	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:15:ALA:HA	11:AL:46:THR:HG21	1.89	0.54
11:AL:117:ASN:CG	11:AL:127:ILE:CD1	2.80	0.54
12:AM:65:ASN:ND2	12:AM:69:TYR:CD1	2.73	0.54
13:AN:34:ASN:CA	13:AN:62:VAL:HG11	2.37	0.54
15:AP:82:LYS:CB	15:AP:125:TRP:H	2.19	0.54
16:AQ:34:LEU:HD21	16:AQ:129:ILE:CD1	2.30	0.54
19:AT:6:LYS:CG	19:AT:27:ALA:HB1	2.38	0.54
19:AT:25:GLN:C	19:AT:26:PHE:CG	2.84	0.54
20:AU:66:ASP:O	20:AU:71:VAL:O	2.24	0.54
21:AV:26:LYS:O	21:AV:27:GLU:CD	2.51	0.54
21:AV:39:PHE:O	21:AV:40:ASP:C	2.50	0.54
21:AV:105:GLN:HB2	21:AV:141:MET:CG	2.30	0.54
21:AV:105:GLN:O	21:AV:142:ASN:ND2	2.38	0.54
23:AX:3:ARG:HD3	23:AX:60:GLU:HG2	1.89	0.54
23:AX:11:SER:HB3	23:AX:13:ILE:HG12	1.89	0.54
23:AX:26:LEU:HD12	23:AX:28:LEU:HD11	1.89	0.54
25:A1:34:ASN:O	25:A1:35:ALA:O	2.25	0.54
26:A2:15:SER:CA	26:A2:99:GLN:CD	2.80	0.54
26:A2:19:VAL:O	26:A2:20:ILE:O	2.26	0.54
26:A2:42:GLY:N	26:A2:54:TYR:CZ	2.73	0.54
27:A3:19:LYS:O	27:A3:72:LYS:NZ	2.34	0.54
27:A3:32:LYS:NZ	27:A3:40:GLN:OE1	2.33	0.54
30:A6:16:ALA:HB1	30:A6:42:PRO:HD3	1.89	0.54
32:A8:23:MET:HE1	32:A8:48:PHE:CA	2.36	0.54
34:BA:44:G:O2'	34:BA:45:U:H5'	2.07	0.54
34:BA:142:G:H2'	34:BA:143:A:C8	2.43	0.54
34:BA:254:G:OP1	52:BT:67:LYS:O	2.26	0.54
34:BA:363:A:C5	47:BO:31:PRO:CD	2.88	0.54
34:BA:399:G:C5	34:BA:400:C:C5	2.95	0.54
34:BA:499:A:N1	34:BA:546:G:O2'	2.30	0.54
34:BA:604:G:N2	34:BA:605:U:H1'	2.22	0.54
34:BA:658:G:C5	34:BA:659:U:C5	2.96	0.54
34:BA:694:A:N1	34:BA:695:A:C4	2.75	0.54
34:BA:736:C:C5'	41:BI:89:MET:HE1	2.27	0.54
34:BA:995:C:C2'	49:BQ:4:LYS:HZ3	2.20	0.54
34:BA:1050:G:C2	34:BA:1209:C:C2	2.96	0.54
34:BA:1244:C:C2	34:BA:1245:A:C8	2.96	0.54
34:BA:1352:C:N3	34:BA:1353:G:C5	2.75	0.54
34:BA:1373:G:H1'	42:BJ:34:GLY:HA2	1.89	0.54
34:BA:1387:G:H2'	34:BA:1388:C:H6	1.72	0.54
34:BA:1400:C:C2	35:BC:34:G:N2	2.75	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1441:G:H1'	34:BA:1461:G:H1	1.72	0.54
35:BC:8:U:H1'	35:BC:48:C:H1'	1.90	0.54
35:BC:13:C:H2'	35:BC:13:C:O2	2.07	0.54
35:BC:27:C:O2	35:BC:28:C:C5	2.60	0.54
35:BC:57:G:C2'	35:BC:58:A:H5''	2.37	0.54
36:B1:71:A:N3	36:B1:71:A:H2'	2.22	0.54
37:BE:78:GLN:HG3	37:BE:94:ASN:CG	2.32	0.54
39:BG:190:ASP:O	39:BG:191:ARG:C	2.51	0.54
42:BJ:50:ILE:O	42:BJ:54:THR:N	2.33	0.54
42:BJ:111:ARG:HD2	42:BJ:123:GLU:CB	2.36	0.54
42:BJ:136:LYS:HZ1	42:BJ:137:LYS:CG	2.16	0.54
44:BL:15:ALA:HB1	44:BL:77:ILE:HA	1.90	0.54
45:BM:24:VAL:HA	45:BM:34:VAL:CG2	2.35	0.54
47:BO:53:ARG:HH22	47:BO:92:ASP:CB	2.21	0.54
48:BP:13:LYS:CD	48:BP:17:VAL:HG12	2.32	0.54
49:BQ:20:ALA:O	49:BQ:21:TYR:CB	2.53	0.54
52:BT:75:ARG:HH11	52:BT:75:ARG:CG	2.05	0.54
1:AB:37:C:H42	1:AB:44:G:H22	1.55	0.54
2:AA:18:C:C4	2:AA:19:C:C5	2.95	0.54
2:AA:28:A:O2'	2:AA:583:G:C5'	2.56	0.54
2:AA:154:G:C5	2:AA:155:C:H1'	2.42	0.54
2:AA:195:A:C4	2:AA:198:C:N4	2.76	0.54
2:AA:270(S):G:C2	2:AA:270(T):G:C5	2.96	0.54
2:AA:311:A:O2'	2:AA:312:G:OP2	2.24	0.54
2:AA:530:G:C6	2:AA:2022:U:OP1	2.61	0.54
2:AA:558:G:C2	2:AA:559:G:C5	2.95	0.54
2:AA:570:G:C5	2:AA:2030:A:C2	2.96	0.54
2:AA:611:C:O2	2:AA:617:G:N1	2.41	0.54
2:AA:806:C:C2'	2:AA:807:U:H6	2.18	0.54
2:AA:911:A:C6	15:AP:16:ARG:HG2	2.43	0.54
2:AA:932:G:C2'	2:AA:933:A:C8	2.90	0.54
2:AA:1022:G:O2'	2:AA:1023:U:P	2.66	0.54
2:AA:1024:G:OP2	2:AA:1026:U:OP1	2.25	0.54
2:AA:1052:C:C2	2:AA:1053:C:H5	2.26	0.54
2:AA:1106:G:C6	2:AA:1107:G:O6	2.61	0.54
2:AA:1107:G:C2'	2:AA:1108:U:H5'	2.38	0.54
2:AA:1131:G:N2	12:AM:69:TYR:CE2	2.75	0.54
2:AA:1247:A:HO2'	2:AA:1248:G:P	2.31	0.54
2:AA:1256:G:C4	2:AA:1257:C:C5	2.95	0.54
2:AA:1364:G:N7	28:A4:3:LYS:HE2	2.23	0.54
2:AA:1395:A:OP1	2:AA:1602:U:O2'	2.25	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1567:A:H4'	2:AA:1568:G:N2	2.23	0.54
2:AA:1571:A:H3'	2:AA:1571:A:C4	2.41	0.54
2:AA:1665:A:H1'	13:AN:67:ARG:HD3	1.90	0.54
2:AA:1779:U:H6	2:AA:1779:U:O5'	1.89	0.54
2:AA:1842:G:C6	2:AA:1843:C:C4	2.95	0.54
2:AA:1850:G:H2'	2:AA:1851:U:O4'	2.07	0.54
2:AA:1960:A:C2	2:AA:1961:C:C2	2.96	0.54
2:AA:2053:G:O2'	2:AA:2054:A:C5'	2.53	0.54
2:AA:2136:C:N3	2:AA:2155:G:C4	2.75	0.54
2:AA:2150:U:O2'	2:AA:2151:G:C8	2.60	0.54
2:AA:2301:C:C4	2:AA:2302:G:N7	2.76	0.54
2:AA:2355:C:C4	2:AA:2356:C:N3	2.76	0.54
2:AA:2486:G:N1	2:AA:2487:G:C8	2.75	0.54
2:AA:2508:G:C2'	2:AA:2509:G:H5'	2.37	0.54
2:AA:2568:C:O2	2:AA:2568:C:H2'	2.08	0.54
2:AA:2600:A:C2	2:AA:2601:C:C5	2.96	0.54
2:AA:2676:C:H2'	2:AA:2677:G:C8	2.43	0.54
2:AA:2726:U:O3'	2:AA:2727:G:C8	2.59	0.54
3:AC:14:VAL:HG12	3:AC:15:ASP:N	2.22	0.54
3:AC:28:LEU:HA	3:AC:31:GLU:HB2	1.88	0.54
3:AC:108:MET:SD	3:AC:136:LEU:CD1	2.96	0.54
4:AD:71:ASP:CG	4:AD:72:GLY:N	2.66	0.54
4:AD:88:ALA:HB1	4:AD:90:ILE:CD1	2.37	0.54
4:AD:115:ILE:HB	4:AD:127:ASN:CG	2.31	0.54
4:AD:131:LEU:HD12	4:AD:184:LEU:O	2.08	0.54
4:AD:154:VAL:HA	4:AD:157:ALA:CB	2.37	0.54
5:AE:75:THR:N	5:AE:293:TYR:HE2	2.05	0.54
5:AE:107:GLU:O	5:AE:110:ARG:CG	2.55	0.54
5:AE:176:HIS:O	5:AE:179:ASP:CB	2.46	0.54
5:AE:205:THR:OG1	5:AE:258:TYR:C	2.50	0.54
5:AE:300:VAL:N	5:AE:301:PRO:HD3	2.23	0.54
6:AF:63:SER:O	6:AF:65:ARG:N	2.38	0.54
6:AF:83:ALA:O	6:AF:84:VAL:HG13	2.08	0.54
8:AH:41:THR:CB	8:AH:52:THR:OG1	2.54	0.54
8:AH:90:GLY:O	8:AH:93:TYR:N	2.41	0.54
9:AJ:40:ALA:C	9:AJ:43:PRO:HD2	2.33	0.54
10:AK:47:LEU:HD13	10:AK:51:LYS:HZ2	1.72	0.54
11:AL:96:ILE:HG12	11:AL:138:GLU:CD	2.33	0.54
11:AL:113:MET:C	11:AL:116:LEU:HB3	2.32	0.54
14:AO:113:GLN:CB	14:AO:115:ARG:CZ	2.81	0.54
15:AP:17:ARG:HD3	15:AP:17:ARG:N	2.22	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:147:VAL:CG1	15:AP:148:ASN:N	2.69	0.54
16:AQ:46:GLN:NE2	16:AQ:57:THR:HG21	2.23	0.54
16:AQ:90:LEU:HD21	16:AQ:125:ALA:O	2.08	0.54
16:AQ:120:GLU:CA	16:AQ:123:ILE:HB	2.38	0.54
17:AR:50:GLU:CA	17:AR:55:ALA:CB	2.80	0.54
18:AS:70:TYR:HE1	18:AS:109:GLU:O	1.90	0.54
22:AW:28:LEU:O	22:AW:29:ASN:C	2.51	0.54
22:AW:33:VAL:HB	22:AW:34:GLN:OE1	2.08	0.54
24:A0:59:ASP:HB2	24:A0:60:LEU:CD2	2.37	0.54
24:A0:80:PHE:O	24:A0:84:ALA:CB	2.56	0.54
24:A0:100:LEU:HD23	24:A0:113:LEU:N	2.22	0.54
26:A2:27:GLY:C	26:A2:28:GLU:O	2.48	0.54
26:A2:65:ARG:HH11	26:A2:94:LYS:HZ2	1.56	0.54
27:A3:73:GLY:O	27:A3:75:GLY:N	2.41	0.54
28:A4:42:PHE:H	28:A4:57:ASP:CG	2.16	0.54
29:A5:44:HIS:HB3	29:A5:45:ILE:HD12	1.89	0.54
30:A6:28:ARG:HD3	30:A6:30:ASN:ND2	2.23	0.54
33:A9:17:VAL:HG12	33:A9:18:ARG:N	2.22	0.54
34:BA:13:U:H5'	34:BA:14:U:OP2	2.07	0.54
34:BA:28:G:HO2'	34:BA:296:U:P	2.30	0.54
34:BA:32:A:H2'	34:BA:33:A:C8	2.42	0.54
34:BA:160:A:H1'	34:BA:344:A:H62	1.72	0.54
34:BA:193:C:H2'	34:BA:194:C:C5	2.42	0.54
34:BA:202:U:H2'	34:BA:202:U:O2	2.07	0.54
34:BA:329:A:N6	34:BA:332:G:C2	2.76	0.54
34:BA:370:C:C2'	34:BA:371:G:C5'	2.85	0.54
34:BA:373:A:N7	34:BA:482:A:C8	2.76	0.54
34:BA:377:G:OP1	51:BS:5:ARG:NH1	2.40	0.54
34:BA:448:A:H2'	34:BA:449:C:H6	1.72	0.54
34:BA:521:G:C6	34:BA:529:G:C2	2.96	0.54
34:BA:562:C:O2'	47:BO:15:ARG:CD	2.55	0.54
34:BA:573:A:C2	34:BA:574:A:C5	2.96	0.54
34:BA:582:U:C2'	34:BA:583:A:O5'	2.56	0.54
34:BA:780:A:C8	34:BA:780:A:C3'	2.90	0.54
34:BA:866:C:C5	34:BA:867:G:C1'	2.91	0.54
34:BA:895:G:H2'	34:BA:896:C:H6	1.72	0.54
34:BA:942:G:N2	44:BL:124:GLN:OE1	2.40	0.54
34:BA:959:A:H1'	34:BA:985:C:C1'	2.38	0.54
34:BA:1056:U:O2'	38:BF:156:ARG:HG3	2.08	0.54
34:BA:1088:G:C2	34:BA:1089:G:C8	2.96	0.54
34:BA:1256:A:H61	34:BA:1278:U:H1'	1.73	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1256:A:N6	34:BA:1278:U:O2'	2.37	0.54
34:BA:1313:U:C5	54:BV:4:SER:HB3	2.42	0.54
34:BA:1431:C:O2'	34:BA:1432:G:H5'	2.08	0.54
35:BB:9:A:H5''	35:BB:10:G:OP2	2.07	0.54
35:BC:49:C:C2	35:BC:50:U:C5	2.95	0.54
35:BC:56:C:N4	35:BC:57:G:C2	2.76	0.54
36:B1:15:A:N1	36:B1:41:U:O2	2.41	0.54
36:B1:70:U:O4	38:BF:131:ARG:NH1	2.41	0.54
37:BE:25:ASN:C	37:BE:27:LYS:N	2.66	0.54
40:BH:78:HIS:CE1	40:BH:142:LEU:HA	2.41	0.54
40:BH:141:GLN:HG3	40:BH:143:ARG:HH22	1.71	0.54
40:BH:144:THR:O	40:BH:146:ALA:N	2.41	0.54
41:BI:52:ILE:HD13	41:BI:87:ARG:HH22	1.72	0.54
41:BI:75:LEU:CD2	41:BI:78:GLU:HB3	2.33	0.54
41:BI:80:ARG:NH1	41:BI:88:VAL:CG1	2.71	0.54
43:BK:40:ALA:N	43:BK:45:ILE:CG2	2.65	0.54
43:BK:104:ARG:O	43:BK:107:LEU:CD2	2.56	0.54
44:BL:5:TYR:CG	44:BL:18:PHE:CE2	2.96	0.54
45:BM:53:PRO:O	45:BM:54:PHE:HB3	2.07	0.54
47:BO:83:VAL:HG21	47:BO:107:ALA:HB3	1.88	0.54
48:BP:11:ARG:C	48:BP:13:LYS:H	2.16	0.54
48:BP:95:GLY:C	48:BP:96:LEU:HD23	2.33	0.54
48:BP:108:ARG:NH1	48:BP:108:ARG:HB3	2.23	0.54
49:BQ:27:CYS:SG	49:BQ:43:CYS:N	2.65	0.54
50:BR:24:SER:O	50:BR:28:GLN:NE2	2.34	0.54
50:BR:29:VAL:HG12	50:BR:30:ALA:N	2.23	0.54
51:BS:19:ILE:HD12	51:BS:37:GLY:C	2.32	0.54
51:BS:72:ARG:CZ	51:BS:73:LEU:HD21	2.38	0.54
51:BS:78:GLY:C	51:BS:79:VAL:CG2	2.81	0.54
54:BV:11:VAL:O	54:BV:11:VAL:CG1	2.55	0.54
55:BW:57:ARG:HG2	55:BW:57:ARG:HH11	1.72	0.54
1:AB:7:G:H21	16:AQ:46:GLN:CD	2.16	0.54
1:AB:110:G:H2'	1:AB:111:U:O4'	2.08	0.54
2:AA:24:G:O2'	18:AS:102:HIS:CD2	2.61	0.54
2:AA:35:G:O4'	2:AA:454:A:O4'	2.26	0.54
2:AA:99:U:N3	20:AU:107:LYS:HD2	2.19	0.54
2:AA:146:G:H2'	2:AA:147:U:H5'	1.89	0.54
2:AA:226:G:O2'	2:AA:227:A:H5'	2.07	0.54
2:AA:243:U:H5''	2:AA:244:A:OP2	2.07	0.54
2:AA:247:G:H4'	2:AA:386:G:C4	2.41	0.54
2:AA:311:A:OP1	20:AU:52:ARG:NH2	2.40	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:371:A:H5''	2:AA:423:A:N7	2.22	0.54
2:AA:372:G:OP2	2:AA:373:U:OP2	2.26	0.54
2:AA:412:A:C2'	2:AA:413:C:H5'	2.37	0.54
2:AA:455:C:P	2:AA:472:A:N1	2.81	0.54
2:AA:482:A:C6	2:AA:506:G:C2	2.96	0.54
2:AA:563:G:O6	2:AA:2018:G:N7	2.41	0.54
2:AA:660:G:N3	2:AA:661:C:C6	2.76	0.54
2:AA:709:U:H2'	2:AA:710:G:O4'	2.08	0.54
2:AA:744:G:O2'	2:AA:745:G:H5'	2.08	0.54
2:AA:809:G:C4	2:AA:810:U:C5	2.95	0.54
2:AA:962:G:H2'	2:AA:963:U:O4'	2.07	0.54
2:AA:1072:C:H2'	2:AA:1093:G:O6	2.07	0.54
2:AA:1077:A:OP1	11:AL:94:ARG:HB2	2.08	0.54
2:AA:1222:C:C2'	2:AA:1223:C:C5'	2.86	0.54
2:AA:1274:A:N6	2:AA:1644:C:O2'	2.40	0.54
2:AA:1291:C:H2'	2:AA:1292:U:C5'	2.38	0.54
2:AA:1530:G:H21	2:AA:1531:C:H5	1.56	0.54
2:AA:1566:A:N6	4:AD:212:HIS:CE1	2.75	0.54
2:AA:1613:G:O4'	31:A7:3:ARG:CZ	2.55	0.54
2:AA:1651:G:O2'	2:AA:1652:A:O4'	2.21	0.54
2:AA:1729:A:C6	2:AA:1731:G:O6	2.61	0.54
2:AA:1770:G:C6	2:AA:1983:C:N4	2.75	0.54
2:AA:1872:A:O2'	2:AA:1878:G:H5'	2.08	0.54
2:AA:2116:G:OP2	3:AC:126:LYS:N	2.41	0.54
2:AA:2143:C:OP2	2:AA:2143:C:C6	2.56	0.54
2:AA:2150:U:C2'	2:AA:2151:G:C8	2.91	0.54
2:AA:2213:U:C5'	2:AA:2215:G:N7	2.69	0.54
2:AA:2224:G:H8	2:AA:2224:G:O5'	1.91	0.54
2:AA:2268:A:H4'	2:AA:2269:A:OP2	2.07	0.54
2:AA:2351:G:H5'	2:AA:2352:A:OP1	2.08	0.54
2:AA:2435:A:H2'	2:AA:2436:G:C5'	2.38	0.54
2:AA:2554:U:C6	2:AA:2554:U:C3'	2.91	0.54
2:AA:2681:C:N4	2:AA:2725:A:N7	2.56	0.54
2:AA:2779:U:O4'	2:AA:2781:A:C5	2.61	0.54
2:AA:2836:U:C2'	2:AA:2837:G:C8	2.75	0.54
2:AA:2864:G:O2'	2:AA:2865:U:O4'	2.23	0.54
4:AD:66:PHE:C	4:AD:67:LYS:CD	2.71	0.54
4:AD:71:ASP:HB3	4:AD:119:PRO:CD	2.38	0.54
6:AF:86:GLY:O	6:AF:87:ARG:CB	2.56	0.54
7:AG:24:HIS:CB	7:AG:72:LYS:CD	2.82	0.54
7:AG:139:TYR:CZ	7:AG:156:ARG:HG3	2.43	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:139:TYR:OH	7:AG:156:ARG:HG3	2.08	0.54
8:AH:117:GLU:CG	8:AH:118:GLU:N	2.70	0.54
9:AI:15:VAL:HG22	9:AI:49:ALA:N	2.23	0.54
9:AI:17:GLU:HG2	9:AJ:104:SER:OG	2.08	0.54
9:AI:40:ALA:C	9:AI:43:PRO:HD2	2.33	0.54
9:AJ:15:VAL:HG21	9:AJ:49:ALA:CA	2.38	0.54
10:AK:6:LEU:CB	10:AK:36:ALA:HB2	2.38	0.54
10:AK:115:ILE:HA	10:AK:131:VAL:CA	2.37	0.54
11:AL:11:LEU:HD11	11:AL:28:LEU:HD11	1.90	0.54
12:AM:15:ARG:HH11	12:AM:43:ARG:NE	2.06	0.54
12:AM:42:GLU:C	12:AM:132:LEU:O	2.51	0.54
12:AM:54:VAL:N	12:AM:135:ILE:HG13	2.23	0.54
13:AN:21:VAL:HG13	13:AN:39:VAL:HG11	1.89	0.54
14:AO:102:ASP:O	14:AO:103:ALA:HB2	2.08	0.54
15:AP:143:VAL:HG21	15:AP:147:VAL:HG21	1.88	0.54
18:AS:89:ALA:N	18:AS:92:ARG:O	2.41	0.54
19:AT:9:HIS:O	19:AT:14:ALA:CB	2.54	0.54
21:AV:18:MET:C	21:AV:36:ARG:HE	2.15	0.54
21:AV:51:LEU:HD23	21:AV:52:PHE:N	2.23	0.54
21:AV:159:THR:O	21:AV:160:LEU:HB2	2.07	0.54
22:AW:34:GLN:O	22:AW:35:ALA:C	2.51	0.54
26:A2:43:GLU:O	26:A2:44:GLN:CD	2.51	0.54
28:A4:41:PRO:CD	28:A4:57:ASP:OD2	2.56	0.54
28:A4:43:TRP:O	28:A4:44:THR:HG23	2.08	0.54
29:A5:10:LYS:HG3	29:A5:11:THR:N	2.23	0.54
30:A6:29:ARG:O	30:A6:31:THR:O	2.25	0.54
32:A8:22:VAL:HG13	32:A8:23:MET:H	1.73	0.54
34:BA:12:U:C5'	34:BA:526:C:O2'	2.56	0.54
34:BA:52:G:O2'	34:BA:53:A:C5'	2.55	0.54
34:BA:136:C:H4'	51:BS:65:GLN:OE1	2.07	0.54
34:BA:155:C:C2	34:BA:167:G:C2	2.96	0.54
34:BA:266:G:C2'	34:BA:267:C:OP2	2.55	0.54
34:BA:403:C:H2'	34:BA:404:U:C6	2.42	0.54
34:BA:404:U:H2'	34:BA:405:U:C6	2.43	0.54
34:BA:484:G:C8	34:BA:486:U:N3	2.76	0.54
34:BA:690:G:C2'	34:BA:691:G:H5'	2.38	0.54
34:BA:760:G:C2'	34:BA:761:G:H5'	2.38	0.54
34:BA:803:G:N1	34:BA:804:U:C2	2.76	0.54
34:BA:837:G:N1	34:BA:838:G:C5	2.76	0.54
34:BA:960:U:H4'	34:BA:961:U:OP2	2.08	0.54
34:BA:1035:A:C2	34:BA:1036:G:C8	2.96	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1045:C:C4	34:BA:1046:A:C8	2.95	0.54
34:BA:1193:G:O2'	34:BA:1194:U:H5'	2.06	0.54
34:BA:1216:G:H5''	49:BQ:5:ALA:HB2	1.90	0.54
34:BA:1254:C:OP1	45:BM:45:ARG:NE	2.41	0.54
34:BA:1306:A:C2'	34:BA:1307:U:H5'	2.38	0.54
34:BA:1334:G:H2'	34:BA:1335:C:H5'	1.90	0.54
35:BB:34:G:C2	36:B1:65:U:H2'	2.42	0.54
35:BB:66:A:C4	35:BB:67:A:N7	2.76	0.54
35:BC:35:A:H8	35:BC:35:A:C5'	2.13	0.54
37:BE:10:LEU:HD23	37:BE:11:LEU:HD23	1.90	0.54
37:BE:80:ILE:CD1	37:BE:208:ILE:HG12	2.37	0.54
38:BF:186:PHE:CE1	38:BF:187:ALA:O	2.61	0.54
40:BH:48:ALA:HB1	40:BH:53:LEU:HB3	1.88	0.54
42:BJ:104:LEU:HD13	42:BJ:134:ALA:CB	2.37	0.54
43:BK:22:GLU:N	43:BK:63:LEU:HD11	2.21	0.54
45:BM:56:HIS:O	45:BM:58:ASP:N	2.40	0.54
45:BM:65:LEU:HD12	49:BQ:56:VAL:CG2	2.38	0.54
46:BN:25:TYR:CD1	46:BN:89:ALA:HB2	2.43	0.54
46:BN:54:ARG:O	46:BN:55:LYS:C	2.51	0.54
50:BR:36:ILE:CG2	50:BR:37:ASN:HD22	2.21	0.54
52:BT:10:VAL:HG21	52:BT:55:ASP:HB2	1.88	0.54
52:BT:17:LYS:HZ3	52:BT:47:PRO:HA	1.71	0.54
53:BU:74:ARG:HA	53:BU:79:LEU:CD2	2.38	0.54
1:AB:12:C:C5	27:A3:53:MET:O	2.54	0.54
1:AB:44:G:H2'	1:AB:48:A:C2	2.43	0.54
1:AB:71:C:C2'	1:AB:72:G:O4'	2.52	0.54
1:AB:81:G:C6	1:AB:96:G:C6	2.96	0.54
2:AA:81:G:N2	2:AA:106:C:C6	2.75	0.54
2:AA:150:C:N3	2:AA:151:C:C6	2.76	0.54
2:AA:199:A:C6	2:AA:2433:A:N7	2.76	0.54
2:AA:506:G:C2'	2:AA:507:A:OP2	2.55	0.54
2:AA:854:G:C4	2:AA:855:G:C8	2.96	0.54
2:AA:933:A:H2'	2:AA:934:G:H5'	1.89	0.54
2:AA:993:G:C6	2:AA:1161:C:N3	2.76	0.54
2:AA:1020:A:O2'	12:AM:49:ARG:HD3	2.07	0.54
2:AA:1054:A:H61	2:AA:1105:U:H3	0.69	0.54
2:AA:1059:G:N7	2:AA:1060:U:O4'	2.41	0.54
2:AA:1085:A:OP1	9:AI:34:ALA:HA	2.08	0.54
2:AA:1177:A:C6	2:AA:1178:C:N4	2.76	0.54
2:AA:1248:G:OP1	25:A1:2:PRO:HG3	2.07	0.54
2:AA:1319:G:C5	2:AA:1334:G:C6	2.95	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1352:U:O2'	2:AA:1570:A:C2'	2.55	0.54
2:AA:1430:C:C2	2:AA:1431:U:C5	2.96	0.54
2:AA:1439:A:C8	2:AA:1440:G:C8	2.92	0.54
2:AA:1480:G:H2'	2:AA:1480:G:N3	2.23	0.54
2:AA:1664:A:H8	2:AA:1664:A:C5'	2.20	0.54
2:AA:1692:U:C4	2:AA:1694:C:O2	2.61	0.54
2:AA:1703:G:H2'	2:AA:1704:G:O4'	2.07	0.54
2:AA:1775:U:HO2'	2:AA:1776:G:H5'	1.69	0.54
2:AA:1806:C:N3	2:AA:1807:G:C8	2.76	0.54
2:AA:1924:C:H5'	35:BC:12:U:O2	2.07	0.54
2:AA:1973:G:C2	2:AA:1974:C:C4	2.96	0.54
2:AA:1988:C:H2'	2:AA:1989:G:O5'	2.08	0.54
2:AA:1989:G:C2'	2:AA:1990:C:H5'	2.38	0.54
2:AA:1999:C:C2'	2:AA:2000:G:O5'	2.55	0.54
2:AA:2022:U:O4	29:A5:9:LYS:CE	2.56	0.54
2:AA:2227:A:C6	2:AA:2228:G:C5	2.96	0.54
2:AA:2259:G:H2'	2:AA:2260:C:H6	1.71	0.54
2:AA:2361:A:H2'	2:AA:2362:G:H5'	1.90	0.54
2:AA:2384:G:H3'	2:AA:2386:C:OP1	2.08	0.54
2:AA:2455:G:C6	2:AA:2456:C:C4	2.96	0.54
2:AA:2462:U:H2'	2:AA:2463:C:H5'	1.90	0.54
2:AA:2474:C:H2'	2:AA:2475:C:C5'	2.38	0.54
2:AA:2488:A:N1	2:AA:2489:G:C5	2.76	0.54
2:AA:2536:G:C6	2:AA:2537:U:C4	2.95	0.54
2:AA:2633:G:H1	2:AA:2785:C:H42	1.55	0.54
2:AA:2684:U:C4'	13:AN:76:TYR:CZ	2.90	0.54
2:AA:2710:C:C2'	2:AA:2711:A:H5'	2.38	0.54
2:AA:2755:C:O5'	2:AA:2755:C:C6	2.54	0.54
2:AA:2791:C:C5	2:AA:2807:G:N1	2.76	0.54
2:AA:2792:G:H1	2:AA:2804:C:H42	1.54	0.54
2:AA:2824:C:C4	2:AA:2825:C:C2	2.95	0.54
2:AA:2839:G:O2'	2:AA:2840:C:C5'	2.56	0.54
2:AA:2848:G:C2	2:AA:2867:G:N3	2.76	0.54
2:AA:2895:U:H2'	2:AA:2896:C:C5	2.43	0.54
4:AD:66:PHE:O	4:AD:67:LYS:HB3	2.08	0.54
4:AD:70:LYS:O	4:AD:73:ILE:HG13	2.08	0.54
4:AD:93:ILE:HG22	4:AD:101:ARG:HB2	1.90	0.54
5:AE:47:GLY:O	5:AE:72:VAL:HG22	2.08	0.54
5:AE:299:SER:C	5:AE:301:PRO:CD	2.81	0.54
6:AF:83:ALA:N	6:AF:87:ARG:NH2	2.56	0.54
6:AF:163:HIS:HA	6:AF:166:ILE:CG1	2.37	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:197:SER:HB2	6:AF:215:ALA:HB2	1.90	0.54
7:AG:104:PHE:O	7:AG:105:SER:OG	2.22	0.54
9:AI:5:GLU:HA	9:AI:8:GLU:OE2	2.08	0.54
9:AJ:77:VAL:CG2	9:AJ:102:ILE:HD11	2.34	0.54
11:AL:67:THR:O	11:AL:68:PHE:CB	2.47	0.54
12:AM:15:ARG:HG3	12:AM:40:ASN:HD22	1.72	0.54
12:AM:19:MET:HE1	12:AM:22:VAL:CB	2.38	0.54
12:AM:63:ILE:HB	12:AM:71:TYR:CE1	2.43	0.54
13:AN:13:ASN:C	13:AN:15:GLY:N	2.65	0.54
17:AR:8:TYR:O	17:AR:10:GLY:N	2.41	0.54
17:AR:45:GLU:CA	17:AR:48:ASN:HD21	2.21	0.54
18:AS:45:TYR:CD2	18:AS:46:PHE:HD1	2.26	0.54
21:AV:14:LEU:CD1	21:AV:80:HIS:NE2	2.71	0.54
21:AV:34:LEU:HB2	21:AV:39:PHE:HE2	1.73	0.54
22:AW:22:ASP:N	22:AW:22:ASP:OD1	2.40	0.54
22:AW:43:PRO:O	22:AW:46:ILE:N	2.41	0.54
23:AX:39:ASP:O	23:AX:40:THR:C	2.50	0.54
25:A1:59:ARG:O	25:A1:60:LEU:C	2.51	0.54
29:A5:11:THR:CB	29:A5:16:ARG:NE	2.41	0.54
33:A9:11:CYS:N	33:A9:32:HIS:NE2	2.50	0.54
34:BA:14:U:N3	34:BA:16:A:O5'	2.41	0.54
34:BA:74:C:H2'	34:BA:75:G:C8	2.43	0.54
34:BA:101:A:C2	34:BA:102:G:C5	2.96	0.54
34:BA:411:A:N7	34:BA:413:G:C4	2.76	0.54
34:BA:527:G:N1	34:BA:528:C:C4	2.75	0.54
34:BA:617:G:H4'	51:BS:45:THR:HG22	1.90	0.54
34:BA:646:U:O2'	34:BA:647:C:C5'	2.56	0.54
34:BA:657:G:H2'	34:BA:658:G:C5'	2.31	0.54
34:BA:757:U:OP1	34:BA:823:G:H5'	2.07	0.54
34:BA:762:C:N3	34:BA:763:G:C5	2.76	0.54
34:BA:777:A:C4	34:BA:778:G:C8	2.96	0.54
34:BA:880:C:C2'	34:BA:881:G:H5'	2.37	0.54
34:BA:887:G:O6	34:BA:888:G:C6	2.61	0.54
34:BA:901:A:H2'	34:BA:902:G:C4'	2.38	0.54
34:BA:994:A:N6	34:BA:1046:A:H2	2.06	0.54
34:BA:1054:C:H2'	34:BA:1055:A:H5''	1.90	0.54
34:BA:1125:U:C5	45:BM:5:ARG:NH2	2.76	0.54
34:BA:1130:A:N3	34:BA:1146:A:C2	2.76	0.54
34:BA:1152:A:O2'	34:BA:1153:C:H5'	2.07	0.54
34:BA:1284:C:C2'	34:BA:1285:A:C8	2.90	0.54
34:BA:1346:A:C2	42:BJ:10:ARG:NE	2.76	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1355:G:H1	34:BA:1367:C:N4	2.05	0.54
35:BB:32:C:N3	35:BB:33:U:C2	2.76	0.54
36:B1:10:U:H2'	36:B1:11:U:C6	2.40	0.54
36:B1:46:A:OP2	36:B1:47:U:C5	2.61	0.54
37:BE:18:GLY:CA	37:BE:41:ILE:HA	2.38	0.54
37:BE:92:TYR:O	37:BE:152:PHE:N	2.41	0.54
37:BE:131:PRO:HG2	37:BE:134:GLU:CG	2.32	0.54
37:BE:221:LEU:HA	37:BE:224:GLN:OE1	2.07	0.54
38:BF:10:PHE:CE2	38:BF:176:HIS:O	2.61	0.54
38:BF:141:VAL:HG13	38:BF:202:ILE:HD13	1.89	0.54
39:BG:148:VAL:CG1	39:BG:153:ARG:HG2	2.38	0.54
44:BL:8:GLY:O	44:BL:76:ALA:HB1	2.08	0.54
44:BL:51:ARG:O	44:BL:52:ALA:C	2.50	0.54
45:BM:5:ARG:NH1	45:BM:5:ARG:CB	2.71	0.54
45:BM:49:VAL:O	45:BM:60:ARG:HG3	2.08	0.54
46:BN:90:GLY:C	46:BN:92:GLU:N	2.63	0.54
47:BO:90:VAL:CG2	47:BO:96:VAL:CG1	2.84	0.54
48:BP:10:PRO:HB2	48:BP:18:ALA:CB	2.38	0.54
48:BP:74:VAL:O	48:BP:78:ILE:HD12	2.07	0.54
48:BP:119:GLY:O	48:BP:121:LYS:NZ	2.38	0.54
49:BQ:13:THR:C	49:BQ:15:LYS:N	2.65	0.54
50:BR:36:ILE:HG22	50:BR:37:ASN:ND2	2.22	0.54
52:BT:74:LEU:HD13	52:BT:75:ARG:N	2.22	0.54
55:BW:16:HIS:O	55:BW:19:SER:N	2.41	0.54
55:BW:89:ARG:O	55:BW:90:GLN:C	2.50	0.54
2:AA:175:G:C4	2:AA:176:G:H8	2.24	0.54
2:AA:185:U:N3	2:AA:212:G:N2	2.56	0.54
2:AA:204:A:C2	2:AA:205:G:N2	2.76	0.54
2:AA:244:A:C6	2:AA:255:A:N7	2.76	0.54
2:AA:246:C:O2'	2:AA:385:C:C4'	2.54	0.54
2:AA:299:A:N3	2:AA:319:C:O2'	2.35	0.54
2:AA:359:A:C2	2:AA:361:G:N1	2.76	0.54
2:AA:533:G:N7	2:AA:534:U:C4	2.76	0.54
2:AA:601:C:H2'	2:AA:602:G:C5'	2.32	0.54
2:AA:609:A:N6	2:AA:609(A):G:O6	2.40	0.54
2:AA:616:A:H2'	2:AA:617:G:N2	2.22	0.54
2:AA:644:A:H5''	2:AA:2369:A:H1'	1.89	0.54
2:AA:729:G:C6	2:AA:1775:U:C2	2.96	0.54
2:AA:742:G:H4'	2:AA:1675:C:O2'	2.07	0.54
2:AA:774:A:H5'	2:AA:778:G:C4'	2.38	0.54
2:AA:786:C:O2'	2:AA:787:U:C4'	2.54	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1000:A:C2	2:AA:1155:A:C2	2.96	0.54
2:AA:1011:G:C5	2:AA:1013:C:C5	2.96	0.54
2:AA:1022:G:N3	2:AA:1139:G:C2	2.76	0.54
2:AA:1053:C:C2'	2:AA:1054:A:H5'	2.37	0.54
2:AA:1127:A:C6	2:AA:2518:A:H2	2.26	0.54
2:AA:1137:G:N7	2:AA:1138:G:C8	2.76	0.54
2:AA:1194:A:C5	2:AA:1195:G:N7	2.76	0.54
2:AA:1231:G:C5	2:AA:1232:G:N7	2.76	0.54
2:AA:1291:C:C2'	2:AA:1292:U:C5'	2.86	0.54
2:AA:1315:C:C2	2:AA:1316:U:C5	2.96	0.54
2:AA:1353:A:N6	2:AA:1354:A:N6	2.56	0.54
2:AA:1565:C:O2'	2:AA:1566:A:H8	1.91	0.54
2:AA:1613:G:OP1	31:A7:5:TYR:CD1	2.60	0.54
2:AA:1754:C:C3'	17:AR:44:ARG:HH22	2.20	0.54
2:AA:1777:U:C5	2:AA:1778:U:H5	2.26	0.54
2:AA:1793:C:C2	2:AA:1794:U:C5	2.96	0.54
2:AA:1815:A:O2'	2:AA:1816:G:H4'	2.08	0.54
2:AA:1913:A:C5	2:AA:1918:A:C6	2.96	0.54
2:AA:1933:G:O6	2:AA:1967:C:N4	2.38	0.54
2:AA:1935:G:C4	2:AA:1962:C:N4	2.75	0.54
2:AA:2076:U:C6	2:AA:2076:U:C3'	2.91	0.54
2:AA:2110:G:C2	2:AA:2179:C:O2	2.61	0.54
2:AA:2303:G:N1	2:AA:2304:G:C6	2.76	0.54
2:AA:2411:A:H2'	2:AA:2412:A:C8	2.43	0.54
2:AA:2458:G:O2'	2:AA:2459:A:C8	2.60	0.54
2:AA:2520:C:C5	2:AA:2567:G:N9	2.76	0.54
2:AA:2538:C:C2	2:AA:2539:C:C5	2.96	0.54
2:AA:2550:G:H2'	2:AA:2551:C:C6	2.43	0.54
2:AA:2562:U:O2'	13:AN:23:LYS:HD3	2.07	0.54
2:AA:2589:A:N6	2:AA:2605:U:H3	2.05	0.54
2:AA:2733:A:N7	2:AA:2734:A:N7	2.56	0.54
2:AA:2745:C:C4	2:AA:2746:U:C4	2.96	0.54
2:AA:2748:A:C8	2:AA:2749:A:C4	2.96	0.54
2:AA:2848:G:N2	2:AA:2867:G:O2'	2.41	0.54
4:AD:64:ILE:HG12	4:AD:102:TYR:CB	2.38	0.54
5:AE:65:MET:SD	5:AE:65:MET:C	2.91	0.54
6:AF:55:ARG:CA	6:AF:79:ARG:CZ	2.86	0.54
7:AG:64:ARG:HB2	7:AG:67:ASP:OD2	2.07	0.54
8:AH:52:THR:OG1	8:AH:54:PRO:HD3	2.07	0.54
9:AI:64:LYS:HE2	9:AI:125:VAL:O	2.08	0.54
10:AK:45:LYS:O	10:AK:46:ALA:C	2.50	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:66:LYS:CA	10:AK:69:LYS:HD3	2.36	0.54
10:AK:141:LEU:HD13	10:AK:141:LEU:O	2.08	0.54
10:AK:145:VAL:CG1	10:AK:146:THR:N	2.71	0.54
11:AL:117:ASN:O	11:AL:118:ALA:C	2.51	0.54
12:AM:58:GLU:HG3	12:AM:139:LEU:CD1	2.37	0.54
14:AO:94:ARG:CB	14:AO:120:LEU:HD13	2.34	0.54
15:AP:67:ALA:CA	15:AP:70:ARG:CZ	2.85	0.54
15:AP:97:ASP:HB2	15:AP:107:LYS:CD	2.31	0.54
19:AT:13:LYS:C	19:AT:17:ASP:OD1	2.51	0.54
21:AV:116:VAL:C	21:AV:118:HIS:H	2.16	0.54
22:AW:60:GLN:C	22:AW:60:GLN:OE1	2.51	0.54
23:AX:33:GLN:HG2	23:AX:34:GLU:H	1.72	0.54
23:AX:41:PRO:O	23:AX:44:ARG:N	2.41	0.54
24:A0:67:LEU:HD22	24:A0:71:GLN:HA	1.89	0.54
25:A1:14:HIS:CD2	25:A1:36:PHE:CZ	2.96	0.54
26:A2:20:ILE:HG23	26:A2:94:LYS:HG2	1.89	0.54
27:A3:31:VAL:O	27:A3:33:ALA:N	2.41	0.54
27:A3:44:LYS:C	27:A3:45:PHE:CD1	2.86	0.54
28:A4:7:PRO:CG	28:A4:56:VAL:HG11	2.37	0.54
34:BA:28:G:H2'	34:BA:296:U:OP1	2.07	0.54
34:BA:66:G:H4'	34:BA:173:U:C5	2.43	0.54
34:BA:148:G:C2	34:BA:175:C:C4	2.96	0.54
34:BA:193:C:O2'	34:BA:194:C:C5'	2.55	0.54
34:BA:236:G:C3'	34:BA:237:C:C6	2.90	0.54
34:BA:267:C:C4	34:BA:268:C:N4	2.73	0.54
34:BA:270:A:H8	34:BA:270:A:O5'	1.90	0.54
34:BA:293:G:OP2	34:BA:293:G:C8	2.62	0.54
34:BA:478:A:C8	34:BA:478:A:H3'	2.43	0.54
34:BA:520:A:N6	34:BA:529:G:N2	2.40	0.54
34:BA:551:U:C2	34:BA:552:U:C5	2.96	0.54
34:BA:701:C:H1'	34:BA:703:G:C6	2.43	0.54
34:BA:761:G:H4'	52:BT:103:GLY:C	2.32	0.54
34:BA:936:C:O2'	34:BA:937:A:H5'	2.07	0.54
34:BA:979:C:OP2	34:BA:980:C:C5	2.60	0.54
34:BA:1067:A:H2	34:BA:1068:G:N3	2.06	0.54
34:BA:1191:A:H5''	38:BF:4:LYS:HZ2	1.71	0.54
34:BA:1348:U:N3	34:BA:1349:A:N7	2.56	0.54
34:BA:1355:G:H2'	34:BA:1356:G:H8	1.73	0.54
34:BA:1359:C:C6	49:BQ:35:ARG:NH2	2.76	0.54
34:BA:1396:A:C4'	34:BA:1398:A:O4'	2.56	0.54
37:BE:91:PRO:HD3	37:BE:154:LEU:HB3	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:18:TRP:N	38:BF:18:TRP:HE3	2.03	0.54
38:BF:23:TYR:CE1	45:BM:11:PHE:CD2	2.96	0.54
38:BF:52:LEU:N	38:BF:52:LEU:CD2	2.71	0.54
38:BF:58:GLU:O	38:BF:64:VAL:HA	2.08	0.54
38:BF:74:GLY:C	38:BF:76:VAL:H	2.16	0.54
38:BF:91:LEU:HD11	38:BF:99:VAL:CG2	2.34	0.54
38:BF:94:LEU:C	38:BF:95:THR:CG2	2.81	0.54
39:BG:13:ARG:HG2	39:BG:32:ALA:HB1	1.90	0.54
39:BG:26:CYS:O	39:BG:31:CYS:CB	2.44	0.54
39:BG:94:LEU:HD11	39:BG:200:GLU:CD	2.33	0.54
40:BH:106:PRO:HG2	40:BH:122:GLU:OE2	2.08	0.54
40:BH:114:GLY:C	40:BH:115:VAL:HG22	2.31	0.54
43:BK:44:PHE:O	43:BK:79:VAL:HG11	2.08	0.54
43:BK:79:VAL:HG12	43:BK:80:ILE:N	2.23	0.54
46:BN:14:VAL:HG12	46:BN:14:VAL:O	2.06	0.54
47:BO:89:ARG:O	47:BO:90:VAL:CG2	2.56	0.54
48:BP:8:GLU:HG3	48:BP:22:ILE:CG1	2.38	0.54
48:BP:114:ARG:O	48:BP:115:LYS:HG3	2.08	0.54
52:BT:35:VAL:HG12	52:BT:36:ILE:N	2.23	0.54
53:BU:40:LEU:O	53:BU:42:ARG:N	2.40	0.54
55:BW:12:ALA:O	55:BW:15:ARG:HB2	2.08	0.54
2:AA:119:A:O2'	2:AA:120:U:OP2	2.24	0.53
2:AA:129:C:H5'	2:AA:1599:C:O2'	2.07	0.53
2:AA:197:A:C2'	2:AA:198:C:H6	2.21	0.53
2:AA:244:A:C5	2:AA:255:A:N7	2.76	0.53
2:AA:291:C:C4	2:AA:349:G:N1	2.76	0.53
2:AA:322:A:N3	2:AA:341:G:C8	2.76	0.53
2:AA:450:G:N2	2:AA:454:A:H2	2.07	0.53
2:AA:451:C:C2	2:AA:453:C:C5	2.96	0.53
2:AA:503:A:C1'	2:AA:505:A:H8	2.20	0.53
2:AA:542:C:O2	2:AA:543:C:C5	2.61	0.53
2:AA:630:G:HO2'	2:AA:631:A:H8	1.55	0.53
2:AA:640:C:N4	2:AA:647:G:O6	2.41	0.53
2:AA:640:C:C6	2:AA:640:C:C3'	2.91	0.53
2:AA:659:C:C2	2:AA:660:G:C8	2.96	0.53
2:AA:858:U:H1'	2:AA:2269:A:H5''	1.89	0.53
2:AA:911:A:C8	2:AA:2264:C:C1'	2.73	0.53
2:AA:976:C:N4	2:AA:988:A:C4	2.75	0.53
2:AA:1063:G:OP2	11:AL:77:PHE:HE1	1.91	0.53
2:AA:1089:G:O5'	2:AA:1089:G:C8	2.57	0.53
2:AA:1138:G:C2	2:AA:1139:G:C5	2.96	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1152:C:H5''	25:A1:80:ILE:CB	2.38	0.53
2:AA:1252:G:N2	25:A1:37:GLN:NE2	2.40	0.53
2:AA:1252:G:N7	2:AA:1253:A:N3	2.55	0.53
2:AA:1268:A:C2'	2:AA:1269:A:H8	2.15	0.53
2:AA:1271:G:H3'	2:AA:1271:G:C8	2.43	0.53
2:AA:1272:A:O2'	2:AA:1273:U:P	2.66	0.53
2:AA:1473:G:O2'	2:AA:1474:C:H5'	2.09	0.53
2:AA:1542:G:C2	2:AA:1543:A:H5''	2.43	0.53
2:AA:1569:A:N1	2:AA:1570:A:C5	2.76	0.53
2:AA:1770:G:C5	2:AA:1771:C:C5	2.96	0.53
2:AA:1802:A:P	2:AA:1814:G:H22	2.28	0.53
2:AA:2043:C:H2'	2:AA:2044:C:O5'	2.09	0.53
2:AA:2110:G:H2'	2:AA:2111:C:C4	2.43	0.53
2:AA:2330:G:C2	2:AA:2331:G:N3	2.75	0.53
2:AA:2344:U:O2	2:AA:2344:U:H2'	2.06	0.53
2:AA:2349:G:O6	2:AA:2350:C:C4	2.62	0.53
2:AA:2521:C:N4	2:AA:2544:G:N1	2.29	0.53
2:AA:2674:G:C4	2:AA:2675:A:N7	2.75	0.53
2:AA:2821:A:P	5:AE:207:GLY:HA3	2.47	0.53
2:AA:2834:G:H5'	2:AA:2835:A:OP2	2.07	0.53
3:AC:61:THR:HG22	3:AC:162:GLU:HG2	1.91	0.53
3:AC:103:ILE:HG12	3:AC:107:TRP:CE3	2.42	0.53
3:AC:131:LEU:CA	3:AC:136:LEU:HB2	2.38	0.53
4:AD:73:ILE:C	4:AD:116:MET:HE2	2.33	0.53
4:AD:109:LEU:HD11	4:AD:125:ILE:O	2.07	0.53
4:AD:143:ILE:HG21	4:AD:153:LEU:HB2	1.90	0.53
4:AD:160:SER:O	4:AD:176:ALA:CA	2.55	0.53
5:AE:314:ALA:O	5:AE:315:VAL:O	2.26	0.53
7:AG:59:GLY:O	7:AG:60:GLU:HG3	2.07	0.53
9:AJ:42:ALA:O	9:AJ:43:PRO:C	2.51	0.53
11:AL:79:LEU:CD1	11:AL:137:ILE:HD13	2.37	0.53
11:AL:89:SER:OG	11:AL:90:SER:N	2.40	0.53
14:AO:141:GLU:HB2	14:AO:145:LEU:CD1	2.38	0.53
15:AP:32:LYS:CE	21:AV:172:LEU:HD11	2.38	0.53
15:AP:75:SER:O	15:AP:132:VAL:CG2	2.54	0.53
15:AP:126:VAL:CG1	15:AP:127:ASN:N	2.70	0.53
17:AR:49:LEU:CD1	17:AR:54:THR:HG22	2.38	0.53
19:AT:3:ASP:HA	22:AW:24:LYS:HG3	1.89	0.53
19:AT:31:ARG:O	19:AT:32:ALA:O	2.26	0.53
19:AT:32:ALA:CA	19:AT:36:GLU:HG3	2.38	0.53
19:AT:68:LEU:HD22	19:AT:73:ASP:OD2	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:62:VAL:HA	20:AU:74:VAL:CG2	2.35	0.53
21:AV:107:GLU:CD	21:AV:107:GLU:N	2.47	0.53
22:AW:62:GLU:N	22:AW:62:GLU:CD	2.65	0.53
23:AX:4:LEU:HD11	23:AX:39:ASP:HA	1.90	0.53
23:AX:8:LEU:HD12	23:AX:54:VAL:CG1	2.38	0.53
24:A0:51:LEU:HD22	24:A0:70:LEU:HD11	1.90	0.53
26:A2:93:ILE:O	26:A2:95:ILE:HD11	2.07	0.53
27:A3:36:ILE:N	27:A3:68:VAL:CG2	2.68	0.53
27:A3:82:GLU:C	27:A3:84:ALA:H	2.16	0.53
28:A4:2:GLN:C	28:A4:3:LYS:HG3	2.29	0.53
28:A4:23:GLU:C	28:A4:25:MET:H	2.16	0.53
28:A4:59:PHE:HA	28:A4:62:ARG:CZ	2.38	0.53
34:BA:117:G:C2'	34:BA:118:U:H5'	2.35	0.53
34:BA:186:C:H2'	34:BA:187:C:H6	1.73	0.53
34:BA:254:G:H4'	52:BT:18:THR:CG2	2.38	0.53
34:BA:281:G:H2'	34:BA:282:A:OP2	2.08	0.53
34:BA:294:U:H2'	34:BA:295:C:H6	1.71	0.53
34:BA:405:U:O4	39:BG:2:GLY:HA3	2.08	0.53
34:BA:444:C:H2'	34:BA:445:G:C8	2.42	0.53
34:BA:563:A:C2	47:BO:15:ARG:NH1	2.72	0.53
34:BA:564:C:H2'	34:BA:565:U:O4'	2.07	0.53
34:BA:737:A:O2'	34:BA:738:C:H5'	2.07	0.53
34:BA:908:A:H5''	47:BO:21:LYS:NZ	2.23	0.53
34:BA:956:U:O2	34:BA:957:U:N1	2.41	0.53
34:BA:990:C:H42	34:BA:1215:G:H1	1.56	0.53
34:BA:1026:G:N7	34:BA:1027:C:C5	2.77	0.53
34:BA:1045:C:C2	34:BA:1046:A:H8	2.26	0.53
34:BA:1196:U:C3'	34:BA:1196:U:C6	2.91	0.53
34:BA:1226:C:OP2	48:BP:103:THR:HG21	2.08	0.53
34:BA:1314:C:C2	34:BA:1315:U:C4	2.95	0.53
34:BA:1319:A:N6	34:BA:1323:G:N3	2.56	0.53
34:BA:1493:A:O2'	34:BA:1494:G:C5'	2.56	0.53
35:BB:34:G:C8	35:BB:34:G:H5'	2.43	0.53
35:BB:49:C:N4	35:BB:50:U:O4	2.41	0.53
35:BB:59:U:O4	35:BB:60:C:N4	2.41	0.53
35:BC:5:A:O2'	35:BC:6:U:O5'	2.27	0.53
36:B1:66:G:H2'	36:B1:67:U:C5'	2.38	0.53
37:BE:61:LEU:N	37:BE:64:ARG:NH1	2.56	0.53
37:BE:71:VAL:HG12	37:BE:72:GLY:N	2.23	0.53
37:BE:79:ASP:HA	37:BE:82:ARG:HB2	1.91	0.53
37:BE:201:ILE:HG22	37:BE:201:ILE:O	2.07	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:207:ALA:O	37:BE:208:ILE:C	2.50	0.53
37:BE:215:LEU:O	37:BE:218:ALA:HB3	2.07	0.53
38:BF:30:ARG:NH1	38:BF:30:ARG:CG	2.71	0.53
38:BF:123:GLN:HB3	38:BF:128:PHE:CE2	2.42	0.53
38:BF:157:ILE:CG2	38:BF:164:ARG:HE	2.18	0.53
39:BG:11:LEU:C	39:BG:13:ARG:N	2.58	0.53
39:BG:98:GLU:HA	39:BG:103:ASN:HD21	1.68	0.53
40:BH:20:GLN:NE2	40:BH:20:GLN:HA	2.23	0.53
40:BH:84:PHE:CE2	40:BH:130:ASN:OD1	2.61	0.53
42:BJ:8:GLU:O	42:BJ:9:VAL:C	2.50	0.53
42:BJ:138:LYS:O	42:BJ:139:GLU:C	2.50	0.53
43:BK:85:ARG:HD2	43:BK:134:ILE:O	2.07	0.53
47:BO:117:ARG:NE	47:BO:124:LYS:HA	2.23	0.53
48:BP:58:GLU:C	48:BP:61:GLU:HB2	2.33	0.53
48:BP:97:PRO:N	48:BP:110:ARG:HG2	2.23	0.53
49:BQ:12:ARG:O	49:BQ:13:THR:C	2.51	0.53
50:BR:49:ASP:OD1	50:BR:52:SER:OG	2.22	0.53
50:BR:75:PRO:HA	50:BR:78:TYR:HB3	1.90	0.53
52:BT:45:HIS:C	52:BT:73:VAL:HG23	2.33	0.53
53:BU:20:ALA:O	53:BU:21:LYS:HB3	2.08	0.53
53:BU:76:LEU:HD22	53:BU:76:LEU:N	2.23	0.53
55:BW:50:GLU:N	55:BW:99:LEU:HB2	2.23	0.53
1:AB:71:C:C2	1:AB:72:G:C8	2.96	0.53
2:AA:110:G:C6	2:AA:111:A:C6	2.97	0.53
2:AA:131:G:C2	2:AA:132:G:N7	2.76	0.53
2:AA:138:G:N2	2:AA:139:G:OP2	2.35	0.53
2:AA:153:C:C4	2:AA:174:C:N4	2.76	0.53
2:AA:197:A:C5	2:AA:2430:A:C8	2.96	0.53
2:AA:215:G:H4'	2:AA:216:A:H4'	1.89	0.53
2:AA:312:G:N3	2:AA:312:G:H2'	2.23	0.53
2:AA:348:G:H3'	2:AA:349:G:C8	2.43	0.53
2:AA:372:G:H4'	28:A4:63:PHE:CE2	2.43	0.53
2:AA:446:G:OP2	25:A1:3:ARG:HB3	2.08	0.53
2:AA:464:U:C2	2:AA:465:G:C8	2.95	0.53
2:AA:502:A:C8	2:AA:502:A:O5'	2.61	0.53
2:AA:552:G:O2'	2:AA:553:U:C5'	2.53	0.53
2:AA:557:U:H2'	2:AA:558:G:H8	1.71	0.53
2:AA:571:A:N9	2:AA:2030:A:N6	2.56	0.53
2:AA:580:C:C2	2:AA:581:C:C5	2.97	0.53
2:AA:718:A:H3'	2:AA:719:C:O4'	2.07	0.53
2:AA:729:G:C8	2:AA:764:A:OP1	2.54	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1000:A:OP2	2:AA:1154:G:N1	2.31	0.53
2:AA:1012:U:O2	12:AM:21:ARG:CG	2.52	0.53
2:AA:1058:G:O2'	9:AI:3:ILE:CG1	2.56	0.53
2:AA:1095:A:C8	2:AA:1096:A:C8	2.96	0.53
2:AA:1128:A:C2	2:AA:1129:A:C6	2.92	0.53
2:AA:1148:A:C6	2:AA:1149:G:C6	2.96	0.53
2:AA:1398:C:O5'	2:AA:1398:C:H6	1.92	0.53
2:AA:1496:A:C2	2:AA:1577:C:O2'	2.58	0.53
2:AA:1678:G:N2	2:AA:1989:G:N2	2.57	0.53
2:AA:1815:A:O2'	2:AA:1816:G:C5'	2.56	0.53
2:AA:1827:C:C2	2:AA:1828:G:C1'	2.92	0.53
2:AA:1860:G:H2'	2:AA:1861:G:H8	1.73	0.53
2:AA:1913:A:N6	2:AA:1917:U:C5	2.76	0.53
2:AA:1935:G:C5	2:AA:1962:C:C5	2.96	0.53
2:AA:1947:C:C2'	2:AA:1948:G:H5'	2.39	0.53
2:AA:2027:G:N3	2:AA:2037:G:N2	2.56	0.53
2:AA:2209:C:C1'	4:AD:149:ARG:NH2	2.71	0.53
2:AA:2277:G:O3'	15:AP:15:THR:HG23	2.09	0.53
2:AA:2278:A:P	15:AP:15:THR:HG21	2.48	0.53
2:AA:2309:A:H3'	2:AA:2310:A:H8	1.73	0.53
2:AA:2359:C:C3'	32:A8:52:LYS:HZ1	2.21	0.53
2:AA:2419:U:H5''	30:A6:24:THR:CG2	2.38	0.53
2:AA:2522:U:O2	2:AA:2765:A:C6	2.62	0.53
2:AA:2662:A:C2	2:AA:2663:G:C4'	2.91	0.53
2:AA:2687:U:O2	2:AA:2688:U:C6	2.61	0.53
2:AA:2748:A:C2	2:AA:2758:A:N7	2.76	0.53
2:AA:2812:G:H2'	2:AA:2813:A:H8	1.74	0.53
2:AA:2828:C:N3	2:AA:2829:C:C5	2.76	0.53
3:AC:100:ILE:HG22	3:AC:127:LEU:HG	1.90	0.53
3:AC:104:LEU:HB2	3:AC:127:LEU:HD23	1.90	0.53
3:AC:171:ILE:HD12	3:AC:196:LEU:HD13	1.90	0.53
4:AD:60:GLN:O	4:AD:62:ARG:N	2.41	0.53
4:AD:175:LEU:O	4:AD:176:ALA:C	2.51	0.53
6:AF:166:ILE:O	6:AF:167:ASP:C	2.50	0.53
7:AG:13:MET:HE3	7:AG:13:MET:CA	2.30	0.53
9:AI:22:VAL:CG1	9:AI:38:ALA:HB1	2.33	0.53
10:AK:94:THR:HG22	10:AK:97:GLN:CD	2.32	0.53
10:AK:94:THR:HG23	10:AK:94:THR:O	2.06	0.53
10:AK:133:LEU:H	10:AK:138:THR:CG2	2.21	0.53
11:AL:131:THR:O	11:AL:132:ALA:C	2.51	0.53
12:AM:72:PRO:CB	12:AM:77:GLY:HA3	2.38	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:92:GLN:O	12:AM:95:ARG:HB2	2.08	0.53
13:AN:3:GLN:C	13:AN:4:GLN:O	2.49	0.53
13:AN:71:ARG:C	13:AN:73:ASP:N	2.59	0.53
15:AP:50:VAL:CG1	15:AP:147:VAL:HG22	2.39	0.53
15:AP:57:ARG:C	15:AP:61:LEU:CG	2.81	0.53
15:AP:61:LEU:HD23	15:AP:61:LEU:H	1.72	0.53
15:AP:71:PHE:N	15:AP:71:PHE:CD1	2.76	0.53
15:AP:76:GLY:O	15:AP:82:LYS:C	2.50	0.53
16:AQ:46:GLN:HB3	16:AQ:57:THR:HG21	1.90	0.53
19:AT:6:LYS:HE2	19:AT:29:ASP:HA	1.90	0.53
21:AV:3:LEU:HD13	21:AV:34:LEU:HD22	1.88	0.53
21:AV:112:LEU:HD13	21:AV:142:ASN:HA	1.90	0.53
23:AX:55:ARG:HH11	23:AX:55:ARG:CB	2.10	0.53
24:A0:100:LEU:HD23	24:A0:112:ALA:HA	1.89	0.53
26:A2:22:VAL:HG12	26:A2:23:GLU:H	1.73	0.53
27:A3:33:ALA:CB	27:A3:66:LYS:H	2.20	0.53
27:A3:36:ILE:CB	27:A3:68:VAL:CG1	2.80	0.53
27:A3:36:ILE:O	27:A3:37:LEU:CG	2.56	0.53
30:A6:41:ASP:O	30:A6:42:PRO:O	2.26	0.53
34:BA:36:C:OP1	47:BO:123:LYS:HE2	2.08	0.53
34:BA:68:G:H8	34:BA:68:G:O5'	1.91	0.53
34:BA:767:A:C8	34:BA:767:A:O5'	2.61	0.53
34:BA:859:A:N7	34:BA:860:A:C5	2.76	0.53
34:BA:894:G:C2'	34:BA:895:G:H8	2.17	0.53
34:BA:974:A:C4	49:BQ:31:ARG:NH2	2.77	0.53
34:BA:987:G:H2'	34:BA:988:G:C5'	2.34	0.53
34:BA:995:C:C2'	49:BQ:4:LYS:NZ	2.70	0.53
34:BA:1077:G:H22	34:BA:1079:G:C3'	2.22	0.53
34:BA:1078:U:O4	34:BA:1079:G:C6	2.61	0.53
34:BA:1137:C:H5'	34:BA:1138:G:C2	2.43	0.53
34:BA:1193:G:C8	34:BA:1193:G:C3'	2.91	0.53
34:BA:1350:A:N6	34:BA:1373:G:C2	2.76	0.53
34:BA:1451:A:C5'	34:BA:1452:C:H41	2.21	0.53
34:BA:1496:C:N4	34:BA:1497:G:C6	2.76	0.53
35:BB:33:U:C5	35:BB:35:A:P	2.99	0.53
35:BB:49:C:N3	35:BB:65:G:C2	2.75	0.53
35:BC:31:A:C8	35:BC:32:C:H5	2.26	0.53
37:BE:54:THR:CG2	37:BE:201:ILE:HD11	2.34	0.53
37:BE:203:GLY:O	37:BE:204:ASN:C	2.51	0.53
37:BE:221:LEU:C	37:BE:221:LEU:CD1	2.76	0.53
38:BF:19:GLU:CB	38:BF:54:ARG:HE	2.20	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:126:ARG:HB2	38:BF:128:PHE:CE1	2.43	0.53
38:BF:174:PRO:HB2	38:BF:177:THR:HG22	1.91	0.53
39:BG:8:VAL:C	39:BG:10:ARG:N	2.67	0.53
39:BG:191:ARG:HH22	39:BG:196:LEU:HB2	1.71	0.53
41:BI:4:TYR:CZ	41:BI:67:MET:HE2	2.43	0.53
42:BJ:121:ALA:O	42:BJ:122:HIS:C	2.52	0.53
43:BK:14:ARG:HH11	43:BK:14:ARG:H	1.56	0.53
45:BM:32:ALA:CB	45:BM:76:ASN:ND2	2.56	0.53
46:BN:11:LYS:N	46:BN:13:GLN:NE2	2.56	0.53
46:BN:101:SER:O	46:BN:102:GLY:C	2.51	0.53
47:BO:6:THR:HG1	47:BO:9:GLN:HG3	1.70	0.53
48:BP:51:ALA:O	48:BP:54:VAL:HB	2.08	0.53
50:BR:36:ILE:HG22	50:BR:37:ASN:HD22	1.73	0.53
50:BR:64:ARG:CG	50:BR:65:ARG:H	2.21	0.53
52:BT:18:THR:HG23	52:BT:69:LYS:HZ2	1.72	0.53
53:BU:67:ALA:O	53:BU:70:ILE:HB	2.08	0.53
53:BU:70:ILE:CG2	53:BU:74:ARG:NE	2.63	0.53
56:BX:14:TRP:CE3	56:BX:15:ARG:HG3	2.43	0.53
1:AB:54:G:C5	1:AB:55:U:C5	2.96	0.53
1:AB:61:G:N3	1:AB:62:C:C5	2.76	0.53
1:AB:82:G:O2'	1:AB:83:G:C5'	2.57	0.53
2:AA:83:G:N1	2:AA:102:G:H2'	2.23	0.53
2:AA:90:U:H5'	2:AA:91:A:OP1	2.08	0.53
2:AA:189:G:O6	2:AA:205:G:C4	2.61	0.53
2:AA:215:G:C1'	2:AA:216:A:H4'	2.38	0.53
2:AA:270(H):C:N4	2:AA:270(R):G:C2	2.77	0.53
2:AA:280:C:O2'	2:AA:281:G:C5	2.61	0.53
2:AA:301:G:O6	2:AA:316:C:N3	2.41	0.53
2:AA:359:A:O2'	2:AA:360:G:C8	2.48	0.53
2:AA:445:C:H2'	25:A1:3:ARG:HH21	1.71	0.53
2:AA:548:A:C5'	2:AA:549:G:C8	2.87	0.53
2:AA:688:U:O2'	2:AA:689:A:H5'	2.07	0.53
2:AA:792:G:O6	2:AA:2440:C:O4'	2.24	0.53
2:AA:821:A:N6	2:AA:946:G:N3	2.56	0.53
2:AA:908:C:O2'	2:AA:909:A:H5'	2.08	0.53
2:AA:978:G:C6	2:AA:979:G:N1	2.77	0.53
2:AA:986:C:H6	2:AA:986:C:C3'	2.07	0.53
2:AA:1044:G:N2	2:AA:1111:A:O4'	2.41	0.53
2:AA:1050:A:H2'	2:AA:1051:G:H5'	1.90	0.53
2:AA:1139:G:H8	2:AA:1139:G:O5'	1.92	0.53
2:AA:1141:U:O2'	2:AA:1142:U:OP2	2.27	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:142(A):A:C3'	2:AA:1143:A:H5'	2.38	0.53
2:AA:1254:A:N7	2:AA:1256:G:C1'	2.71	0.53
2:AA:1274:A:C2	2:AA:1302:A:H2	2.26	0.53
2:AA:1286:A:C2	2:AA:1329:U:N3	2.76	0.53
2:AA:1296:G:OP1	2:AA:2709:G:H4'	2.08	0.53
2:AA:1392:A:C2	2:AA:1393:A:N1	2.76	0.53
2:AA:1668:A:N3	2:AA:1670:C:N4	2.55	0.53
2:AA:1827:C:C5'	2:AA:1971:A:H4'	2.39	0.53
2:AA:1838:C:O2	2:AA:1898:U:C4	2.62	0.53
2:AA:1920:C:C2'	2:AA:1921:G:O5'	2.56	0.53
2:AA:1932:A:N1	2:AA:1933:G:C4	2.76	0.53
2:AA:2010:G:C5	2:AA:2011:U:C6	2.96	0.53
2:AA:2051:A:H5'	2:AA:2578:G:H5''	1.90	0.53
2:AA:2131:G:OP1	2:AA:2131:G:C4	2.62	0.53
2:AA:2275:C:O2'	15:AP:103:ALA:CA	2.55	0.53
2:AA:2320:A:H61	16:AQ:13:ARG:HG2	1.73	0.53
2:AA:2345:G:C8	2:AA:2371:G:N2	2.76	0.53
2:AA:2352:A:N1	27:A3:30:VAL:HG12	2.24	0.53
2:AA:2481:G:O2'	2:AA:2482:G:H8	1.92	0.53
2:AA:2684:U:C4'	13:AN:76:TYR:CE2	2.90	0.53
2:AA:2825:C:H6	2:AA:2825:C:O5'	1.90	0.53
2:AA:2845:G:HO2'	2:AA:2846:G:C4'	2.21	0.53
4:AD:95:TYR:HB3	4:AD:99:GLU:HG3	1.89	0.53
4:AD:209:ASN:O	4:AD:212:HIS:N	2.41	0.53
5:AE:97:THR:C	5:AE:98:GLU:HG3	2.34	0.53
6:AF:219:ASN:H	6:AF:222:ASP:CB	2.20	0.53
7:AG:134:LEU:HD13	7:AG:136:ARG:CZ	2.38	0.53
7:AG:134:LEU:HD13	7:AG:136:ARG:NH2	2.22	0.53
8:AH:29:LYS:HE3	8:AH:80:LYS:CA	2.39	0.53
8:AH:93:TYR:CD1	8:AH:106:VAL:HG22	2.43	0.53
8:AH:163:TYR:O	8:AH:164:GLU:C	2.51	0.53
9:AJ:15:VAL:HG22	9:AJ:49:ALA:N	2.22	0.53
10:AK:34:GLY:O	10:AK:35:LEU:HG	2.07	0.53
10:AK:40:THR:C	10:AK:42:ALA:N	2.64	0.53
10:AK:44:LEU:HA	10:AK:47:LEU:HD23	1.90	0.53
11:AL:96:ILE:HG23	11:AL:138:GLU:OE2	2.08	0.53
12:AM:45:VAL:CG2	12:AM:131:THR:N	2.66	0.53
12:AM:139:LEU:HD13	12:AM:139:LEU:H	1.73	0.53
13:AN:7:ARG:CG	13:AN:44:LYS:HZ2	2.21	0.53
13:AN:25:LEU:HD21	13:AN:40:VAL:CG2	2.39	0.53
13:AN:106:LEU:HD12	13:AN:114:ILE:CG2	2.37	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:94:ARG:O	14:AO:120:LEU:CD1	2.56	0.53
15:AP:57:ARG:C	15:AP:61:LEU:HG	2.32	0.53
15:AP:123:ILE:C	15:AP:136:TRP:NE1	2.67	0.53
16:AQ:12:ARG:CZ	16:AQ:20:TYR:CZ	2.91	0.53
16:AQ:27:LEU:O	16:AQ:27:LEU:CD1	2.55	0.53
16:AQ:53:ASN:O	16:AQ:53:ASN:CG	2.50	0.53
18:AS:28:SER:CB	18:AS:31:GLU:HB3	2.37	0.53
19:AT:5:ILE:HD11	19:AT:41:VAL:CA	2.38	0.53
21:AV:3:LEU:HD12	21:AV:54:ILE:CD1	2.39	0.53
21:AV:18:MET:H	21:AV:36:ARG:NH2	2.06	0.53
21:AV:26:LYS:CB	21:AV:27:GLU:OE2	2.53	0.53
22:AW:19:GLU:HA	22:AW:22:ASP:OD2	2.08	0.53
23:AX:6:VAL:HG22	23:AX:54:VAL:CG2	2.39	0.53
25:A1:110:VAL:O	25:A1:114:ARG:CG	2.54	0.53
26:A2:10:LYS:C	26:A2:12:TYR:N	2.64	0.53
26:A2:39:PHE:O	26:A2:40:VAL:CG1	2.52	0.53
26:A2:76:SER:HG	26:A2:84:THR:H	1.56	0.53
32:A8:18:GLY:O	32:A8:20:GLY:N	2.40	0.53
32:A8:32:GLN:O	32:A8:33:ASN:O	2.27	0.53
34:BA:21:G:H21	34:BA:915:A:N6	2.05	0.53
34:BA:108:G:C2	34:BA:109:A:N1	2.76	0.53
34:BA:109:A:N6	34:BA:326:G:C6	2.74	0.53
34:BA:114:U:O2	34:BA:114:U:C2'	2.56	0.53
34:BA:233:C:C2	34:BA:234:C:C6	2.97	0.53
34:BA:236:G:C6	34:BA:237:C:N4	2.77	0.53
34:BA:242:C:H2'	34:BA:243:A:C5'	2.37	0.53
34:BA:327:A:N6	34:BA:329:A:C6	2.77	0.53
34:BA:339:C:C2'	34:BA:340:U:O5'	2.57	0.53
34:BA:517:G:H5''	34:BA:518:C:OP1	2.08	0.53
34:BA:560:U:H4'	34:BA:561:U:H5''	1.89	0.53
34:BA:579:G:C6	34:BA:763:G:N1	2.76	0.53
34:BA:606:G:N2	34:BA:631:G:C2	2.76	0.53
34:BA:620:C:C5	34:BA:621:A:C8	2.95	0.53
34:BA:648:A:N1	34:BA:649:G:C5	2.76	0.53
34:BA:659:U:H2'	34:BA:660:G:H8	1.72	0.53
34:BA:662:G:O2'	34:BA:836:G:C5'	2.57	0.53
34:BA:719:C:H3'	34:BA:720:C:C5	2.43	0.53
34:BA:809:G:C2'	34:BA:810:C:C5'	2.86	0.53
34:BA:866:C:H5	34:BA:867:G:N9	2.06	0.53
34:BA:885:G:C2	34:BA:886:G:N7	2.77	0.53
34:BA:930:C:C4	34:BA:931:C:C5	2.95	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1098:C:H2'	34:BA:1099:G:C5'	2.37	0.53
34:BA:1106:G:N1	34:BA:1107:C:C4	2.77	0.53
34:BA:1213:A:C2	34:BA:1215:G:C1'	2.89	0.53
34:BA:1347:G:N7	44:BL:107:ARG:NH1	2.55	0.53
34:BA:1347:G:N1	34:BA:1374:A:OP2	2.40	0.53
34:BA:1419:G:O2'	34:BA:1420:C:O5'	2.25	0.53
35:BC:20:G:N2	35:BC:21:A:C5'	2.47	0.53
35:BC:72:C:C6	35:BC:73:A:N7	2.76	0.53
37:BE:88:ALA:HA	37:BE:219:VAL:HG13	1.90	0.53
37:BE:104:ASN:OD1	37:BE:107:THR:HB	2.09	0.53
38:BF:16:ARG:O	38:BF:17:ASP:CG	2.51	0.53
38:BF:98:ASN:C	38:BF:99:VAL:CG1	2.81	0.53
38:BF:131:ARG:NH2	38:BF:164:ARG:HH22	2.05	0.53
39:BG:121:VAL:HA	39:BG:126:ILE:HD11	1.88	0.53
41:BI:70:ASP:CG	41:BI:71:ARG:HG2	2.33	0.53
42:BJ:17:VAL:HG21	42:BJ:44:TYR:CZ	2.43	0.53
42:BJ:150:ALA:C	42:BJ:152:ALA:N	2.62	0.53
43:BK:21:LYS:O	43:BK:63:LEU:CD1	2.56	0.53
43:BK:64:LYS:C	43:BK:65:TYR:CG	2.87	0.53
43:BK:89:PRO:CA	43:BK:92:ARG:HH21	2.22	0.53
43:BK:93:VAL:CB	43:BK:133:LEU:HD12	2.38	0.53
43:BK:126:LYS:NZ	43:BK:127:LEU:CG	2.69	0.53
47:BO:117:ARG:NE	47:BO:123:LYS:O	2.38	0.53
47:BO:120:TYR:O	47:BO:121:GLY:O	2.26	0.53
48:BP:22:ILE:HD12	48:BP:25:ILE:HD12	1.87	0.53
52:BT:22:LEU:HD12	52:BT:40:LYS:O	2.07	0.53
52:BT:91:ARG:HA	52:BT:94:ASN:ND2	2.23	0.53
53:BU:39:VAL:HA	53:BU:42:ARG:CD	2.38	0.53
53:BU:63:GLN:O	53:BU:67:ALA:HB2	2.09	0.53
55:BW:88:VAL:O	55:BW:91:LEU:HB2	2.09	0.53
56:BX:9:ARG:NH2	56:BX:21:TYR:HB3	2.23	0.53
2:AA:6:A:O3'	12:AM:6:PHE:CE2	2.62	0.53
2:AA:38:A:HO2'	2:AA:39:C:H6	1.57	0.53
2:AA:59:U:C2	2:AA:73:A:C2	2.97	0.53
2:AA:82:G:N2	2:AA:105:C:N4	2.55	0.53
2:AA:179:G:C5	2:AA:180:G:N7	2.77	0.53
2:AA:188:G:H2'	2:AA:189:G:C5'	2.39	0.53
2:AA:271:G:N2	2:AA:404:C:N4	2.56	0.53
2:AA:300:A:N3	2:AA:319:C:H1'	2.23	0.53
2:AA:513:A:C6	2:AA:514:A:N7	2.77	0.53
2:AA:619:G:N7	2:AA:620:G:C2	2.77	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:646:A:H2	2:AA:647:G:C4	2.27	0.53
2:AA:717:G:N2	2:AA:718:A:H1'	2.23	0.53
2:AA:729:G:O6	2:AA:1775:U:N3	2.40	0.53
2:AA:740:U:H2'	2:AA:741:G:C8	2.34	0.53
2:AA:748:G:C6	2:AA:750:A:C2	2.97	0.53
2:AA:783:A:C2'	2:AA:784:A:C5'	2.86	0.53
2:AA:929:G:O2'	23:AX:37:LEU:HD13	2.08	0.53
2:AA:942:G:H2'	2:AA:943:U:C1'	2.38	0.53
2:AA:975:G:C5	2:AA:990:A:C5	2.97	0.53
2:AA:996:A:C6	2:AA:997:G:N7	2.76	0.53
2:AA:1070:A:N6	2:AA:1096:A:H2	2.04	0.53
2:AA:1334:G:H2'	2:AA:1335:U:H6	1.73	0.53
2:AA:1352:U:H1'	2:AA:1570:A:H2	1.71	0.53
2:AA:1467:C:C5	2:AA:1468:C:C5	2.92	0.53
2:AA:1483:G:C2	2:AA:1507:A:O2'	2.61	0.53
2:AA:1627:G:OP2	2:AA:1627:G:C8	2.62	0.53
2:AA:1858:G:OP2	2:AA:1858:G:H8	1.92	0.53
2:AA:1918:A:C5	2:AA:1919:A:N6	2.76	0.53
2:AA:1977:A:N3	2:AA:1978:A:N9	2.56	0.53
2:AA:1980:G:O2'	2:AA:1981:A:P	2.67	0.53
2:AA:2047:U:O2	2:AA:2048:G:C8	2.61	0.53
2:AA:2057:A:C2'	2:AA:2058:A:O5'	2.57	0.53
2:AA:2079:U:C4	2:AA:2080:G:N7	2.77	0.53
2:AA:2094:G:O2'	2:AA:2095:C:H5'	2.09	0.53
2:AA:2108:C:H3'	2:AA:2109:U:C5	2.43	0.53
2:AA:2132:U:O3'	3:AC:5:LYS:N	2.41	0.53
2:AA:2183:C:N3	2:AA:2184:G:N7	2.55	0.53
2:AA:2250:G:H5''	2:AA:2250:G:C8	2.43	0.53
2:AA:2306:C:N4	7:AG:53:LYS:NZ	2.56	0.53
2:AA:2456:C:H2'	2:AA:2457:U:O4'	2.08	0.53
2:AA:2604:U:C2'	2:AA:2605:U:O5'	2.56	0.53
2:AA:2619:C:C2'	2:AA:2620:C:O5'	2.56	0.53
2:AA:2628:C:O2'	2:AA:2781:A:H2'	2.09	0.53
2:AA:2646:C:N4	2:AA:2732:G:C2	2.76	0.53
2:AA:2654:A:H61	2:AA:2667:C:N4	2.06	0.53
2:AA:2742:C:O2	2:AA:2743:C:C6	2.61	0.53
2:AA:2817:G:H1	2:AA:2829:C:H42	1.56	0.53
2:AA:2822:G:OP1	5:AE:258:TYR:HE2	1.90	0.53
2:AA:2831:G:C1'	2:AA:2883:A:C2	2.92	0.53
2:AA:2859:G:H8	2:AA:2859:G:O5'	1.91	0.53
4:AD:70:LYS:CD	4:AD:73:ILE:HD12	2.38	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:97:ASP:OD2	4:AD:97:ASP:O	2.27	0.53
4:AD:143:ILE:C	4:AD:152:GLN:H	2.16	0.53
5:AE:39:GLN:OE1	5:AE:174:LEU:HD11	2.05	0.53
5:AE:41:PHE:HB2	5:AE:311:PHE:HE1	1.71	0.53
5:AE:234:ARG:O	5:AE:235:ILE:O	2.25	0.53
6:AF:25:PRO:O	6:AF:26:VAL:HB	2.08	0.53
6:AF:84:VAL:CG2	6:AF:85:LYS:HZ2	2.14	0.53
6:AF:96:LYS:O	6:AF:98:ARG:CD	2.57	0.53
6:AF:111:VAL:HA	6:AF:220:THR:CG2	2.26	0.53
6:AF:220:THR:O	6:AF:225:PRO:CD	2.48	0.53
7:AG:146:LYS:CE	16:AQ:15:GLU:OE2	2.56	0.53
8:AH:85:ALA:O	8:AH:148:ARG:NH2	2.40	0.53
9:AI:41:ALA:O	9:AI:44:VAL:HB	2.08	0.53
10:AK:26:ALA:HA	10:AK:30:LEU:CD1	2.39	0.53
10:AK:77:VAL:C	10:AK:144:HIS:CE1	2.86	0.53
10:AK:94:THR:O	10:AK:97:GLN:HB2	2.08	0.53
12:AM:36:VAL:HG12	12:AM:38:VAL:CG2	2.36	0.53
12:AM:74:ARG:HG3	12:AM:141:ALA:O	2.07	0.53
13:AN:64:ARG:HG3	13:AN:79:PHE:CD1	2.30	0.53
13:AN:86:ILE:HG23	13:AN:87:ILE:N	2.23	0.53
15:AP:82:LYS:HZ2	15:AP:84:ARG:NH2	2.07	0.53
19:AT:23:LYS:C	19:AT:24:LEU:CG	2.82	0.53
20:AU:103:LEU:HD22	20:AU:109:GLU:CA	2.36	0.53
21:AV:1:MET:H1	21:AV:54:ILE:HD12	1.72	0.53
22:AW:30:ALA:O	22:AW:34:GLN:HG2	2.09	0.53
22:AW:52:ALA:HA	22:AW:55:ARG:HH11	1.70	0.53
23:AX:50:VAL:O	23:AX:51:ALA:C	2.52	0.53
25:A1:35:ALA:O	25:A1:36:PHE:C	2.51	0.53
25:A1:89:ASP:OD1	26:A2:52:GLY:CA	2.57	0.53
26:A2:11:GLN:CD	26:A2:21:ARG:HD3	2.33	0.53
28:A4:57:ASP:C	28:A4:61:LYS:HD2	2.34	0.53
30:A6:26:LYS:HZ1	32:A8:36:LYS:H	1.56	0.53
32:A8:3:LYS:C	32:A8:4:MET:SD	2.92	0.53
34:BA:11:G:O5'	34:BA:11:G:H8	1.92	0.53
34:BA:52:G:N3	34:BA:53:A:C8	2.76	0.53
34:BA:97:G:H2'	34:BA:98:U:H6	1.74	0.53
34:BA:129(A):G:O2'	34:BA:190(E):U:H3'	2.08	0.53
34:BA:264:U:H2'	34:BA:265:G:C5'	2.37	0.53
34:BA:280:C:H1'	52:BT:38:ARG:HD3	1.90	0.53
34:BA:342:C:N1	34:BA:348:G:N2	2.56	0.53
34:BA:475:G:N3	34:BA:476:G:C8	2.77	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:683:G:N2	46:BN:39:PRO:CD	2.71	0.53
34:BA:684:A:C2'	46:BN:39:PRO:HG2	2.39	0.53
34:BA:692:U:O4	46:BN:52:GLY:C	2.51	0.53
34:BA:750:G:H4'	50:BR:20:GLY:O	2.08	0.53
34:BA:774:G:H5''	34:BA:774:G:C8	2.44	0.53
34:BA:781:A:O2'	34:BA:782:A:OP1	2.26	0.53
34:BA:915:A:H2'	34:BA:916:G:H5'	1.90	0.53
34:BA:1006:C:N3	34:BA:1023:G:O6	2.41	0.53
34:BA:1030:C:H2'	34:BA:30(A):G:C8	2.43	0.53
34:BA:1041:A:H2'	34:BA:1042:G:O5'	2.08	0.53
34:BA:1089:G:C6	34:BA:1090:U:C5	2.96	0.53
34:BA:1129:C:H4'	34:BA:1131:G:C5	2.39	0.53
34:BA:1222:G:P	54:BV:77:THR:HG21	2.49	0.53
34:BA:1267:C:N4	34:BA:1268:A:N1	2.56	0.53
34:BA:1462:G:H2'	34:BA:1463:C:H6	1.72	0.53
34:BA:1480:G:O2'	34:BA:1481:U:H5'	2.09	0.53
35:BC:17:U:C5'	35:BC:18:G:O5'	2.56	0.53
36:B1:50:G:C2	36:B1:51:G:C5	2.97	0.53
37:BE:46:LYS:O	37:BE:49:GLU:N	2.41	0.53
37:BE:53:ARG:HA	37:BE:56:ARG:NH1	2.23	0.53
37:BE:156:LYS:O	37:BE:156:LYS:HG2	2.09	0.53
37:BE:163:PHE:CA	37:BE:185:ILE:HD12	2.38	0.53
38:BF:71:ALA:HA	38:BF:106:VAL:HB	1.89	0.53
38:BF:91:LEU:HD23	38:BF:91:LEU:C	2.32	0.53
38:BF:115:LEU:O	38:BF:117:ALA:N	2.41	0.53
39:BG:110:PHE:HE1	39:BG:148:VAL:HG23	1.71	0.53
39:BG:122:ARG:HE	39:BG:122:ARG:CA	2.16	0.53
39:BG:156:GLU:O	39:BG:160:GLN:HG2	2.09	0.53
39:BG:175:SER:OG	39:BG:184:LYS:O	2.23	0.53
40:BH:86:ALA:C	40:BH:125:SER:HB3	2.34	0.53
41:BI:84:ASN:HA	41:BI:86:ARG:NH2	2.24	0.53
43:BK:17:THR:CG2	43:BK:80:ILE:HD13	2.37	0.53
43:BK:65:TYR:N	43:BK:65:TYR:CD1	2.75	0.53
44:BL:75:ASP:O	44:BL:76:ALA:C	2.51	0.53
45:BM:6:ILE:HG22	45:BM:98:ILE:CD1	2.38	0.53
48:BP:8:GLU:CD	48:BP:22:ILE:CG1	2.82	0.53
49:BQ:29:ARG:O	49:BQ:33:VAL:HG13	2.08	0.53
51:BS:20:VAL:HG13	51:BS:21:VAL:H	1.72	0.53
53:BU:53:ARG:HH11	53:BU:59:SER:CA	2.21	0.53
54:BV:72:GLY:O	54:BV:74:PHE:N	2.41	0.53
55:BW:40:ALA:O	55:BW:43:LEU:N	2.41	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:44:ALA:CB	55:BW:92:LEU:HD21	2.38	0.53
1:AB:57:A:H1'	7:AG:13:MET:SD	2.48	0.53
1:AB:117:G:C6	1:AB:118:G:C5	2.96	0.53
2:AA:28:A:H1'	2:AA:513:A:N1	2.23	0.53
2:AA:138:G:C2'	2:AA:140:A:OP2	2.57	0.53
2:AA:193:U:H2'	2:AA:194:G:H8	1.74	0.53
2:AA:227:A:H61	2:AA:2407:G:H8	1.57	0.53
2:AA:236:C:H4'	2:AA:431:U:H1'	1.89	0.53
2:AA:243:U:O4	2:AA:255:A:C8	2.61	0.53
2:AA:281:G:H2'	2:AA:282:A:O4'	2.07	0.53
2:AA:443:A:H1'	2:AA:1201:C:H5'	1.90	0.53
2:AA:445:C:C3'	25:A1:3:ARG:NH2	2.68	0.53
2:AA:451:C:H2'	2:AA:452:G:N7	2.23	0.53
2:AA:597:U:H2'	2:AA:598:G:C8	2.44	0.53
2:AA:665:C:H2'	2:AA:666:G:C8	2.44	0.53
2:AA:684:G:C2	2:AA:794:G:C2	2.97	0.53
2:AA:684:G:C4	2:AA:775:G:C6	2.95	0.53
2:AA:766:C:H2'	2:AA:767:U:O4'	2.09	0.53
2:AA:811:U:H6	2:AA:811:U:H3'	1.72	0.53
2:AA:989:G:C2'	2:AA:990:A:OP2	2.56	0.53
2:AA:1219:G:N1	2:AA:1230:C:O2	2.28	0.53
2:AA:1261:C:OP2	2:AA:1261:C:C3'	2.55	0.53
2:AA:1266:G:O2'	2:AA:2012:G:N1	2.41	0.53
2:AA:1381:G:C5	2:AA:1382:G:C5	2.96	0.53
2:AA:1432:C:H2'	2:AA:1433:U:C6	2.43	0.53
2:AA:1628:G:N2	2:AA:1629:U:C2	2.76	0.53
2:AA:1801:G:OP1	2:AA:1801:G:C8	2.58	0.53
2:AA:1815:A:OP1	2:AA:1822:G:H4'	2.08	0.53
2:AA:1824:G:C2	2:AA:1825:A:H1'	2.42	0.53
2:AA:1833:U:H2'	2:AA:1834:U:C6	2.41	0.53
2:AA:1916:A:H2'	2:AA:1917:U:C4	2.43	0.53
2:AA:1959:G:H1'	34:BA:1418:A:C2	2.44	0.53
2:AA:1981:A:C3'	2:AA:1982:C:C5'	2.86	0.53
2:AA:2032:G:H4'	2:AA:2033:A:OP1	2.09	0.53
2:AA:2052:G:C5	2:AA:2053:G:N7	2.77	0.53
2:AA:2093:G:OP2	10:AK:25:TYR:CZ	2.62	0.53
2:AA:2132:U:O2	2:AA:2133:G:C4	2.61	0.53
2:AA:2179:C:H2'	2:AA:2180:U:C5	2.44	0.53
2:AA:2484:G:C2'	2:AA:2485:G:C5'	2.80	0.53
2:AA:2528:U:O2	2:AA:2536:G:N2	2.42	0.53
2:AA:2597:G:H8	2:AA:2597:G:OP2	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2680:C:H3'	5:AE:206:LYS:HZ2	1.71	0.53
2:AA:2727:G:O2'	13:AN:70:ARG:NH2	2.40	0.53
2:AA:2870:C:O2	2:AA:2871:C:C1'	2.56	0.53
4:AD:128:ALA:HB2	4:AD:190:THR:HA	1.90	0.53
4:AD:152:GLN:O	4:AD:153:LEU:CB	2.53	0.53
4:AD:208:GLY:O	4:AD:211:HIS:CG	2.62	0.53
5:AE:75:THR:C	5:AE:292:PRO:HB2	2.34	0.53
6:AF:51:TYR:C	6:AF:55:ARG:HB3	2.32	0.53
6:AF:142:ASP:O	6:AF:143:ASP:C	2.50	0.53
9:AI:7:ILE:HD13	11:AL:118:ALA:CA	2.28	0.53
9:AI:38:ALA:HA	9:AI:41:ALA:CB	2.38	0.53
9:AI:42:ALA:O	9:AI:43:PRO:C	2.49	0.53
10:AK:94:THR:HG23	10:AK:96:LYS:CB	2.31	0.53
10:AK:110:LEU:CD1	10:AK:133:LEU:HD22	2.25	0.53
10:AK:116:GLU:CD	10:AK:130:PRO:O	2.52	0.53
11:AL:36:MET:HE1	11:AL:40:LYS:HE3	1.90	0.53
13:AN:7:ARG:HA	13:AN:44:LYS:HZ1	1.73	0.53
13:AN:87:ILE:CG2	13:AN:88:ARG:O	2.55	0.53
14:AO:67:ARG:H	14:AO:67:ARG:CD	2.21	0.53
14:AO:69:ILE:O	14:AO:70:ASP:C	2.48	0.53
15:AP:48:ASN:HD21	15:AP:122:PHE:N	2.04	0.53
15:AP:54:VAL:N	15:AP:115:SER:OG	2.42	0.53
20:AU:81:LYS:CE	20:AU:83:ASP:HB2	2.38	0.53
21:AV:33:ALA:O	21:AV:34:LEU:CD1	2.49	0.53
21:AV:39:PHE:O	21:AV:40:ASP:O	2.26	0.53
21:AV:134:LEU:HD23	21:AV:135:VAL:N	2.24	0.53
24:A0:20:LEU:C	24:A0:22:ARG:N	2.64	0.53
24:A0:45:ARG:O	24:A0:49:ASP:HB2	2.09	0.53
25:A1:14:HIS:CG	25:A1:36:PHE:HZ	2.26	0.53
25:A1:61:TRP:CZ3	25:A1:93:LYS:C	2.87	0.53
26:A2:59:GLU:OE1	26:A2:98:ILE:C	2.51	0.53
26:A2:60:VAL:HG12	26:A2:98:ILE:HD12	1.90	0.53
27:A3:43:THR:HG21	27:A3:74:LYS:C	2.33	0.53
28:A4:41:PRO:HG2	28:A4:57:ASP:HB3	1.90	0.53
28:A4:48:ARG:HG2	28:A4:49:PHE:CG	2.43	0.53
29:A5:4:HIS:HB2	29:A5:5:PRO:CD	2.38	0.53
31:A7:41:GLN:O	31:A7:42:LEU:CG	2.51	0.53
31:A7:43:THR:HA	31:A7:46:ASP:OD1	2.09	0.53
32:A8:63:PRO:HG2	32:A8:64:ARG:H	1.74	0.53
34:BA:22:G:C4	34:BA:23:C:C5	2.97	0.53
34:BA:42:G:C6	34:BA:43:C:N4	2.77	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:50:A:H62	34:BA:361:G:H4'	1.66	0.53
34:BA:183:G:N3	34:BA:223:U:O2'	2.41	0.53
34:BA:279:A:C5'	34:BA:280:C:H3'	2.37	0.53
34:BA:282:A:C5	34:BA:283:C:C5	2.97	0.53
34:BA:405:U:H2'	34:BA:405:U:O2	2.07	0.53
34:BA:530:G:C6	35:BB:34:G:N3	2.77	0.53
34:BA:581:G:HO2'	34:BA:582:U:P	2.30	0.53
34:BA:640:A:C5	34:BA:641:U:C6	2.97	0.53
34:BA:670:G:N2	34:BA:737:A:C4	2.76	0.53
34:BA:688:G:H2'	34:BA:689:C:H5'	1.90	0.53
34:BA:785:G:N2	34:BA:786:G:H1'	2.23	0.53
34:BA:793:U:H5'	34:BA:794:A:N7	2.23	0.53
34:BA:972:C:OP2	45:BM:57:LYS:HE3	2.09	0.53
34:BA:1051:C:H2'	34:BA:1052:U:C6	2.44	0.53
34:BA:1073:U:O2	34:BA:1102:A:C2	2.61	0.53
34:BA:1189:C:H5''	34:BA:1190:G:OP2	2.09	0.53
34:BA:1236:A:C6	34:BA:1237:C:N4	2.77	0.53
34:BA:1288:A:H2'	34:BA:1289:A:C8	2.38	0.53
34:BA:1327:C:H5	56:BX:6:ARG:NH2	2.07	0.53
34:BA:1401:G:C6	34:BA:1504:G:N2	2.76	0.53
35:BB:19:G:C3'	35:BB:20:G:N7	2.72	0.53
37:BE:44:LEU:O	37:BE:48:MET:SD	2.67	0.53
37:BE:97:TRP:CZ3	37:BE:173:ALA:N	2.76	0.53
37:BE:150:SER:O	37:BE:151:GLY:O	2.26	0.53
38:BF:18:TRP:NE1	49:BQ:55:GLY:O	2.32	0.53
38:BF:88:ARG:HE	38:BF:100:ALA:HA	1.73	0.53
38:BF:175:LEU:HD11	38:BF:201:TYR:CE2	2.43	0.53
39:BG:100:ARG:HH22	39:BG:137:SER:HA	1.73	0.53
39:BG:152:SER:O	39:BG:158:ILE:CD1	2.56	0.53
40:BH:60:TYR:CE1	40:BH:64:ARG:NE	2.76	0.53
40:BH:110:LEU:O	40:BH:115:VAL:HG23	2.09	0.53
41:BI:19:LEU:HG	41:BI:23:LYS:HD2	1.89	0.53
41:BI:46:ARG:NH1	53:BU:37:VAL:HG11	2.24	0.53
42:BJ:50:ILE:HG22	42:BJ:56:GLN:O	2.08	0.53
42:BJ:72:ARG:NH1	42:BJ:138:LYS:CE	2.71	0.53
42:BJ:80:VAL:HG21	42:BJ:85:TYR:CB	2.39	0.53
43:BK:25:ASP:CB	43:BK:58:TYR:CD2	2.92	0.53
43:BK:64:LYS:HD3	43:BK:79:VAL:HG11	1.90	0.53
43:BK:67:PRO:HD2	43:BK:76:PRO:CB	2.22	0.53
43:BK:87:SER:O	43:BK:88:LYS:C	2.51	0.53
43:BK:97:VAL:HG22	43:BK:98:LYS:CD	2.28	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:97:VAL:CG2	43:BK:98:LYS:HD3	2.29	0.53
48:BP:34:LEU:HD22	48:BP:39:ILE:O	2.08	0.53
50:BR:25:THR:CA	50:BR:28:GLN:HG2	2.26	0.53
52:BT:74:LEU:C	52:BT:74:LEU:CD1	2.75	0.53
53:BU:62:GLU:O	53:BU:66:LEU:CG	2.56	0.53
53:BU:63:GLN:C	53:BU:66:LEU:HG	2.34	0.53
54:BV:39:THR:O	54:BV:40:ILE:C	2.51	0.53
55:BW:79:ARG:O	55:BW:80:ARG:C	2.48	0.53
1:AB:84:C:N4	1:AB:92:G:N1	2.27	0.53
1:AB:115:G:H5'	16:AQ:59:ALA:HB1	1.85	0.53
2:AA:10:G:HO2'	2:AA:11:G:C5'	2.21	0.53
2:AA:27:G:O2'	2:AA:28:A:H8	1.90	0.53
2:AA:36:G:O2'	2:AA:451:C:C6	2.61	0.53
2:AA:92:G:OP2	2:AA:92:G:H3'	2.09	0.53
2:AA:176:G:H2'	2:AA:177:G:C1'	2.39	0.53
2:AA:189:G:N2	2:AA:206:U:C4	2.77	0.53
2:AA:234:C:C4	2:AA:430:G:N2	2.68	0.53
2:AA:238:C:C2'	2:AA:239:U:O5'	2.57	0.53
2:AA:244:A:O2'	14:AO:56:LYS:HB3	2.08	0.53
2:AA:289:A:H2'	2:AA:351:G:N7	2.23	0.53
2:AA:290:G:C8	2:AA:290:G:H3'	2.44	0.53
2:AA:320:A:O2'	2:AA:322:A:OP2	2.24	0.53
2:AA:337:C:N4	2:AA:339:U:O4	2.42	0.53
2:AA:339:U:OP1	2:AA:339:U:C6	2.60	0.53
2:AA:412:A:H2'	2:AA:413:C:C5'	2.38	0.53
2:AA:441:U:OP2	20:AU:3:GLN:HG2	2.09	0.53
2:AA:489:G:C2	2:AA:491:G:N9	2.77	0.53
2:AA:589:C:O2'	2:AA:590:A:H5'	2.08	0.53
2:AA:595:C:C2'	2:AA:596:G:O5'	2.57	0.53
2:AA:673:C:N3	2:AA:808:G:C2	2.77	0.53
2:AA:675:A:C5	2:AA:676:A:N1	2.76	0.53
2:AA:721:C:H2'	2:AA:722:A:C8	2.42	0.53
2:AA:771:G:N1	2:AA:772:C:C4	2.77	0.53
2:AA:778:G:C6	2:AA:779:U:C2	2.97	0.53
2:AA:786:C:C2'	2:AA:787:U:C5'	2.86	0.53
2:AA:969:U:O3'	23:AX:14:GLY:HA2	2.09	0.53
2:AA:1019:U:O2	2:AA:1143:A:N1	2.42	0.53
2:AA:1022:G:OP1	2:AA:1022:G:H4'	2.09	0.53
2:AA:1042:G:N2	2:AA:1113:U:O2	2.41	0.53
2:AA:1061:U:H2'	2:AA:1061:U:O2	2.08	0.53
2:AA:1063:G:N2	2:AA:1076:C:C2	2.76	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1070:A:H8	2:AA:1097:U:O5'	1.91	0.53
2:AA:1076:C:O4'	11:AL:91:GLU:OE2	2.25	0.53
2:AA:1146:C:H2'	2:AA:1147:C:C6	2.43	0.53
2:AA:1154:G:H8	2:AA:1154:G:O5'	1.91	0.53
2:AA:1212:G:C2'	2:AA:1213:A:OP2	2.57	0.53
2:AA:1215:G:O3'	25:A1:8:ILE:HG22	2.08	0.53
2:AA:1255:U:OP1	2:AA:1256:G:C5'	2.49	0.53
2:AA:1340:U:H2'	2:AA:1341:U:OP1	2.08	0.53
2:AA:1341:U:C6	2:AA:1397:U:O2	2.61	0.53
2:AA:1387:C:H2'	2:AA:1388:G:H8	1.74	0.53
2:AA:1416:G:C2	2:AA:1583:A:C6	2.96	0.53
2:AA:1484:G:C6	2:AA:1506:C:N4	2.77	0.53
2:AA:1518:C:H3'	2:AA:1519:G:H4'	1.89	0.53
2:AA:1595:G:O2'	2:AA:1596:A:H5'	2.09	0.53
2:AA:1599:C:P	19:AT:33:SER:OG	2.66	0.53
2:AA:1688:U:O4'	2:AA:1701:A:N6	2.41	0.53
2:AA:1701:A:H2'	2:AA:1702:G:C5'	2.39	0.53
2:AA:1772:G:O2'	2:AA:1773:A:H5'	2.09	0.53
2:AA:1792:G:O2'	2:AA:1793:C:H5'	2.07	0.53
2:AA:1845:G:N3	2:AA:1896:G:C2	2.77	0.53
2:AA:1890:A:N3	2:AA:1891:G:H1'	2.23	0.53
2:AA:1928:A:H3'	2:AA:1929:G:H5'	1.91	0.53
2:AA:1930:G:C4	2:AA:1968:G:O6	2.62	0.53
2:AA:1970:A:C5	2:AA:1972:A:C5	2.97	0.53
2:AA:1983:C:O2'	2:AA:1984:G:C5'	2.56	0.53
2:AA:2013:A:H2'	2:AA:2014:A:C4'	2.38	0.53
2:AA:2082:A:N7	2:AA:2239:G:N1	2.57	0.53
2:AA:2115:G:H4'	3:AC:126:LYS:NZ	2.24	0.53
2:AA:2138:C:C2	2:AA:2139:C:C5	2.96	0.53
2:AA:2277:G:N3	2:AA:2277:G:C2'	2.70	0.53
2:AA:2345:G:O2'	2:AA:2346:A:OP2	2.27	0.53
2:AA:2403:C:O2	2:AA:2404:C:C6	2.61	0.53
2:AA:2497:A:O5'	2:AA:2497:A:C8	2.62	0.53
2:AA:2519:U:N3	2:AA:2542:A:C5	2.77	0.53
2:AA:2547:U:C5	2:AA:2566:A:C4	2.97	0.53
2:AA:2611:U:O2'	29:A5:2:ALA:HB2	2.09	0.53
2:AA:2633:G:C4	2:AA:2634:G:C8	2.97	0.53
2:AA:2648:C:C4	2:AA:2649:U:C4	2.96	0.53
2:AA:2737:G:N1	2:AA:2767:C:N4	2.31	0.53
2:AA:2811:G:C6	2:AA:2891:G:N2	2.77	0.53
2:AA:2856:C:N4	2:AA:2862:G:C6	2.76	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:39:GLU:CG	3:AC:216:THR:HB	2.31	0.53
4:AD:141:HIS:HB3	4:AD:154:VAL:CG1	2.37	0.53
5:AE:180:ILE:CB	5:AE:187:HIS:HB3	2.36	0.53
5:AE:241:TRP:C	5:AE:243:PRO:HD2	2.34	0.53
6:AF:245:GLU:N	6:AF:245:GLU:OE2	2.41	0.53
7:AG:103:ASN:O	7:AG:104:PHE:CD2	2.61	0.53
7:AG:105:SER:O	7:AG:106:PHE:CD1	2.62	0.53
8:AH:104:LEU:O	8:AH:151:ARG:NH1	2.40	0.53
9:AI:13:LEU:HD23	9:AI:17:GLU:CD	2.34	0.53
9:AJ:2:THR:O	9:AJ:5:GLU:HB2	2.08	0.53
11:AL:13:LEU:HB3	11:AL:14:PRO:HD2	1.90	0.53
11:AL:15:ALA:CA	11:AL:46:THR:HB	2.39	0.53
11:AL:79:LEU:HD13	11:AL:137:ILE:CD1	2.38	0.53
12:AM:69:TYR:HD2	12:AM:71:TYR:HH	1.57	0.53
12:AM:82:THR:O	12:AM:85:GLY:CA	2.56	0.53
13:AN:7:ARG:HA	13:AN:19:VAL:O	2.08	0.53
13:AN:35:ILE:HG13	13:AN:65:THR:CG2	2.39	0.53
14:AO:94:ARG:CD	14:AO:119:THR:O	2.45	0.53
15:AP:67:ALA:O	15:AP:68:ALA:C	2.50	0.53
16:AQ:32:PRO:O	16:AQ:101:VAL:HG13	2.09	0.53
16:AQ:90:LEU:O	16:AQ:91:ARG:C	2.51	0.53
19:AT:9:HIS:CE1	19:AT:61:GLU:OE1	2.61	0.53
19:AT:69:SER:O	19:AT:70:GLU:CB	2.57	0.53
20:AU:51:LEU:CA	20:AU:97:ARG:HE	2.21	0.53
21:AV:4:THR:CG2	21:AV:56:VAL:HG22	2.38	0.53
21:AV:134:LEU:CD2	21:AV:136:VAL:HG23	2.38	0.53
22:AW:51:LYS:O	22:AW:54:ALA:N	2.41	0.53
23:AX:11:SER:OG	23:AX:13:ILE:HG12	2.08	0.53
24:A0:25:ALA:HA	24:A0:48:VAL:CG2	2.39	0.53
24:A0:51:LEU:HD23	24:A0:66:VAL:HG13	1.89	0.53
25:A1:36:PHE:O	25:A1:39:LEU:HB2	2.08	0.53
25:A1:64:ARG:CZ	25:A1:101:ARG:HH21	2.21	0.53
25:A1:74:MET:O	25:A1:79:PHE:CE1	2.62	0.53
26:A2:4:ILE:HD11	26:A2:13:ARG:NE	2.24	0.53
26:A2:35:LEU:O	26:A2:60:VAL:HG22	2.07	0.53
26:A2:49:GLU:H	26:A2:54:TYR:HH	1.53	0.53
28:A4:48:ARG:CB	28:A4:71:SER:HB3	2.37	0.53
32:A8:15:LYS:O	32:A8:22:VAL:HG22	2.08	0.53
34:BA:115:G:C4	34:BA:289:G:C8	2.97	0.53
34:BA:184:G:C5'	34:BA:224:C:H4'	2.38	0.53
34:BA:335:C:H4'	34:BA:1434:A:C4'	2.37	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:419:C:H2'	34:BA:420:U:O4'	2.08	0.53
34:BA:869:G:H4'	34:BA:872:A:C8	2.44	0.53
34:BA:1081:G:C2'	34:BA:1082:G:H5'	2.39	0.53
34:BA:1104:G:O2'	37:BE:111:ARG:NH2	2.41	0.53
34:BA:1194:U:H2'	34:BA:1195:C:O5'	2.09	0.53
34:BA:1241:G:C6	34:BA:1242:C:C4	2.97	0.53
34:BA:1306:A:H8	34:BA:1306:A:O5'	1.91	0.53
34:BA:1352:C:N4	34:BA:1370:G:N1	2.03	0.53
34:BA:1413:A:N6	34:BA:1488:G:N1	2.56	0.53
34:BA:1424:C:O2'	34:BA:1425:U:H5'	2.08	0.53
34:BA:1459:C:C4	34:BA:1460:A:N7	2.77	0.53
35:BB:9:A:C5'	35:BB:10:G:OP2	2.57	0.53
35:BB:55:U:O2	35:BB:57:G:C8	2.62	0.53
35:BB:74:C:C5	35:BB:75:C:H1'	2.38	0.53
36:B1:14:U:H2'	36:B1:15:A:H8	1.72	0.53
37:BE:18:GLY:CA	37:BE:41:ILE:HG23	2.38	0.53
37:BE:77:ALA:HB1	37:BE:80:ILE:CB	2.37	0.53
37:BE:228:GLY:O	37:BE:229:VAL:O	2.27	0.53
38:BF:150:LYS:HB2	38:BF:173:VAL:HG21	1.91	0.53
39:BG:20:TYR:HA	39:BG:26:CYS:HB3	1.90	0.53
39:BG:29:PRO:O	39:BG:30:LYS:CG	2.43	0.53
40:BH:43:LEU:HD13	40:BH:133:TYR:CE2	2.43	0.53
40:BH:112:LEU:O	40:BH:114:GLY:N	2.41	0.53
44:BL:17:VAL:HA	44:BL:63:ILE:HG23	1.89	0.53
44:BL:74:ILE:O	44:BL:77:ILE:CB	2.55	0.53
46:BN:104:GLN:C	46:BN:106:LYS:H	2.15	0.53
47:BO:85:ILE:O	47:BO:85:ILE:HG23	2.09	0.53
47:BO:87:GLY:HA2	47:BO:98:TYR:CA	2.38	0.53
48:BP:109:THR:CG2	48:BP:110:ARG:N	2.71	0.53
50:BR:40:SER:O	50:BR:43:LEU:N	2.41	0.53
52:BT:12:SER:OG	52:BT:14:LYS:HG3	2.07	0.53
53:BU:47:THR:N	53:BU:49:LYS:HZ1	2.07	0.53
54:BV:11:VAL:HG22	54:BV:39:THR:H	1.74	0.53
55:BW:58:LYS:O	55:BW:62:LEU:HG	2.08	0.53
1:AB:89:G:C2'	1:AB:89(A):A:C8	2.87	0.53
2:AA:38:A:H1'	6:AF:46:TYR:HE2	1.74	0.53
2:AA:139:G:C8	2:AA:142:G:C1'	2.91	0.53
2:AA:202:U:C5	2:AA:203:C:N3	2.76	0.53
2:AA:244:A:N6	2:AA:245:G:C2	2.77	0.53
2:AA:574:C:HO2'	2:AA:575:A:P	2.25	0.53
2:AA:617:G:C8	2:AA:618:G:C5	2.96	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:662:G:O2'	2:AA:663:G:H8	1.91	0.53
2:AA:695:G:N3	2:AA:696:G:C8	2.77	0.53
2:AA:729:G:H3'	2:AA:729:G:C2	2.38	0.53
2:AA:763:G:C5	2:AA:765:G:C8	2.96	0.53
2:AA:874:G:N2	2:AA:903:C:C2	2.72	0.53
2:AA:910:A:C5	2:AA:911:A:N6	2.77	0.53
2:AA:921:G:C6	2:AA:922:U:N3	2.76	0.53
2:AA:956:G:OP1	15:AP:94:ARG:NH1	2.40	0.53
2:AA:973:A:C5	26:A2:80:TYR:CA	2.78	0.53
2:AA:1105:U:H4'	9:AI:30:GLY:H	1.70	0.53
2:AA:1319:G:O2'	2:AA:1320:C:C5'	2.52	0.53
2:AA:1335:U:H2'	2:AA:1336:A:O5'	2.08	0.53
2:AA:1432:C:C2	2:AA:1562:A:C2	2.96	0.53
2:AA:1466:G:H2'	2:AA:1547:C:C5	2.43	0.53
2:AA:1492:G:H4'	4:AD:97:ASP:OD1	2.07	0.53
2:AA:1543:A:H2'	2:AA:1544:C:O5'	2.09	0.53
2:AA:1625:C:C4	2:AA:1626:G:C8	2.97	0.53
2:AA:1630:G:C4	2:AA:630(A):C:C5	2.97	0.53
2:AA:1796:U:C2'	2:AA:1797:C:C5	2.83	0.53
2:AA:1939:U:O2'	2:AA:1940:U:OP1	2.26	0.53
2:AA:2077:A:C4	2:AA:2435:A:N7	2.76	0.53
2:AA:2078:C:N3	2:AA:2079:U:C4	2.77	0.53
2:AA:2093:G:N9	2:AA:2225:A:N6	2.57	0.53
2:AA:2301:C:N3	2:AA:2302:G:N7	2.57	0.53
2:AA:2305:A:H2	7:AG:72:LYS:NZ	2.07	0.53
2:AA:2407:G:C2	2:AA:2408:U:N3	2.77	0.53
2:AA:2474:C:C2'	2:AA:2475:C:H5'	2.39	0.53
2:AA:2657:A:N6	2:AA:2664:G:N2	2.29	0.53
2:AA:2758:A:OP2	2:AA:2758:A:C8	2.62	0.53
2:AA:2795:G:H5''	2:AA:2799:A:C6	2.44	0.53
2:AA:2892:A:C3'	2:AA:2893:G:H8	2.21	0.53
4:AD:71:ASP:CG	4:AD:119:PRO:HD2	2.34	0.53
4:AD:73:ILE:HB	4:AD:95:TYR:CE2	2.44	0.53
4:AD:83:ASP:HB3	4:AD:85:ASN:HD21	1.73	0.53
4:AD:141:HIS:CE1	4:AD:191:VAL:C	2.85	0.53
4:AD:167:GLU:O	4:AD:170:TYR:CD1	2.62	0.53
5:AE:83:LEU:CD1	5:AE:178:LEU:HA	2.38	0.53
5:AE:107:GLU:CB	5:AE:110:ARG:CZ	2.84	0.53
5:AE:216:ARG:HH11	5:AE:253:GLN:CA	2.20	0.53
6:AF:1:MET:N	6:AF:1:MET:SD	2.81	0.53
6:AF:32:GLY:O	6:AF:33:LYS:C	2.51	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:28:GLY:O	7:AG:29:HIS:ND1	2.42	0.53
8:AH:60:HIS:O	8:AH:63:LEU:CB	2.54	0.53
8:AH:66:THR:CG2	8:AH:67:THR:N	2.71	0.53
8:AH:86:LEU:HD21	8:AH:161:ILE:CG2	2.33	0.53
9:AI:73:VAL:HG11	9:AI:123:ALA:CB	2.38	0.53
9:AJ:22:VAL:HA	9:AJ:38:ALA:HB1	1.91	0.53
10:AK:128:ASN:HB2	10:AK:141:LEU:O	2.08	0.53
11:AL:19:THR:H	11:AL:20:PRO:HD2	1.73	0.53
13:AN:93:PRO:HD2	13:AN:113:LYS:CD	2.31	0.53
15:AP:50:VAL:CG1	15:AP:51:GLU:H	2.09	0.53
16:AQ:110:THR:C	16:AQ:114:LYS:N	2.67	0.53
20:AU:71:VAL:HA	20:AU:93:THR:HG23	1.90	0.53
21:AV:19:ILE:CG2	21:AV:20:ALA:N	2.71	0.53
21:AV:54:ILE:HG23	21:AV:55:THR:H	1.73	0.53
21:AV:124:ALA:O	21:AV:159:THR:HB	2.08	0.53
21:AV:138:VAL:CB	21:AV:140:LYS:HZ1	2.22	0.53
23:AX:50:VAL:HG12	23:AX:53:LEU:HD12	1.91	0.53
25:A1:33:ARG:O	25:A1:35:ALA:N	2.41	0.53
25:A1:96:ALA:O	25:A1:98:ILE:N	2.41	0.53
25:A1:111:ASP:O	25:A1:114:ARG:N	2.41	0.53
26:A2:5:ILE:HA	26:A2:39:PHE:CD2	2.43	0.53
26:A2:18:ASP:OD2	26:A2:94:LYS:CE	2.57	0.53
26:A2:60:VAL:CG1	26:A2:61:VAL:N	2.72	0.53
30:A6:42:PRO:C	30:A6:44:ALA:H	2.13	0.53
34:BA:52:G:C4	34:BA:53:A:C8	2.96	0.53
34:BA:342:C:C4	34:BA:348:G:N1	2.76	0.53
34:BA:343:U:H2'	34:BA:345:C:H5	1.73	0.53
34:BA:500:G:C5	34:BA:546:G:C2	2.97	0.53
34:BA:506:G:O6	34:BA:507:C:N4	2.41	0.53
34:BA:528:C:H1'	34:BA:535:A:C2	2.43	0.53
34:BA:583:A:O2'	34:BA:584:G:O4'	2.26	0.53
34:BA:658:G:C2'	34:BA:659:U:C5'	2.85	0.53
34:BA:750:G:O2'	50:BR:21:ASP:HA	2.09	0.53
34:BA:794:A:C6	34:BA:795:C:N4	2.77	0.53
34:BA:859:A:C2'	34:BA:860:A:C5'	2.86	0.53
34:BA:922:G:H2'	34:BA:923:A:O4'	2.09	0.53
34:BA:1240:U:N3	42:BJ:32:ARG:NH2	2.57	0.53
34:BA:1430:C:H2'	34:BA:1431:C:H6	1.74	0.53
34:BA:1446:A:O2'	34:BA:1447:G:H5'	2.08	0.53
34:BA:1498:U:O2'	34:BA:1499:A:H5'	2.09	0.53
35:BB:7:U:C5'	35:BB:8:U:OP2	2.56	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:7:U:C4'	35:BC:8:U:OP2	2.43	0.53
35:BC:21:A:C5	35:BC:46:G:N1	2.76	0.53
37:BE:212:GLN:NE2	37:BE:212:GLN:HA	2.23	0.53
38:BF:50:ALA:O	38:BF:70:VAL:CG1	2.57	0.53
38:BF:115:LEU:C	38:BF:117:ALA:N	2.66	0.53
40:BH:9:LYS:O	40:BH:32:VAL:HG22	2.09	0.53
41:BI:8:ILE:CG2	41:BI:88:VAL:HG22	2.38	0.53
41:BI:15:ASP:H	41:BI:18:GLN:NE2	2.07	0.53
41:BI:75:LEU:HD13	41:BI:79:LEU:HD11	1.89	0.53
45:BM:48:THR:CG2	45:BM:60:ARG:HG3	2.38	0.53
46:BN:116:HIS:O	46:BN:117:ASN:ND2	2.41	0.53
47:BO:27:LEU:HG	47:BO:28:LYS:HG3	1.90	0.53
47:BO:92:ASP:O	47:BO:92:ASP:OD1	2.26	0.53
52:BT:97:SER:O	52:BT:98:LEU:CB	2.56	0.53
52:BT:99:SER:OG	52:BT:100:LYS:N	2.41	0.53
54:BV:40:ILE:N	54:BV:69:HIS:O	2.42	0.53
55:BW:54:LYS:HA	55:BW:57:ARG:CD	2.18	0.53
56:BX:2:GLY:O	56:BX:4:GLY:N	2.41	0.53
1:AB:16:G:N2	1:AB:69:G:H1'	2.22	0.53
1:AB:63:G:C2	1:AB:64:C:N3	2.77	0.53
1:AB:118:G:C6	1:AB:119:A:N7	2.76	0.53
2:AA:7:G:C2	2:AA:8:A:C4	2.96	0.53
2:AA:11:G:C6	2:AA:12:U:C4	2.97	0.53
2:AA:20:C:H2'	2:AA:21:A:H8	1.74	0.53
2:AA:35:G:C2	2:AA:454:A:H2	2.25	0.53
2:AA:121:G:H4'	2:AA:150:C:H5'	1.91	0.53
2:AA:139:G:H8	2:AA:142:G:O4'	1.89	0.53
2:AA:148:C:H2'	2:AA:149:A:H8	1.71	0.53
2:AA:222:A:OP2	2:AA:271(A):C:O2	2.27	0.53
2:AA:222:A:H2'	2:AA:223:A:OP2	2.09	0.53
2:AA:246:C:O2	2:AA:246:C:H2'	2.09	0.53
2:AA:270(A):A:H3'	2:AA:270(A):A:N3	2.24	0.53
2:AA:271:G:N2	2:AA:404:C:H42	2.07	0.53
2:AA:310:A:P	20:AU:53:GLY:N	2.79	0.53
2:AA:364:C:C2	2:AA:365:C:N4	2.76	0.53
2:AA:372:G:P	2:AA:373:U:OP2	2.66	0.53
2:AA:476:G:N2	2:AA:478:A:H2'	2.23	0.53
2:AA:483:A:OP2	2:AA:484:C:N4	2.38	0.53
2:AA:510:C:P	2:AA:512:G:H1	2.31	0.53
2:AA:598:G:N2	6:AF:33:LYS:NZ	2.57	0.53
2:AA:631:A:H2'	2:AA:632:A:O4'	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:669:G:HO2'	2:AA:801:G:N2	2.06	0.53
2:AA:771:G:C2	2:AA:772:C:C4	2.97	0.53
2:AA:811:U:C6	2:AA:811:U:O5'	2.62	0.53
2:AA:841:A:N6	2:AA:938:G:C6	2.76	0.53
2:AA:855:G:H2'	2:AA:855:G:N3	2.24	0.53
2:AA:882:G:C5'	35:BB:19:G:O6	2.57	0.53
2:AA:969:U:H4'	23:AX:14:GLY:C	2.33	0.53
2:AA:995:C:H1'	25:A1:57:PHE:CE2	2.44	0.53
2:AA:1034:G:O5'	33:A9:18:ARG:NH2	2.42	0.53
2:AA:1057:A:C4	2:AA:1058:G:C8	2.96	0.53
2:AA:1102:C:H1'	2:AA:1103:A:H8	1.70	0.53
2:AA:1183:G:O2'	2:AA:1184:G:C1'	2.56	0.53
2:AA:1194:A:C6	2:AA:1195:G:N7	2.77	0.53
2:AA:1224:G:O2'	26:A2:86:HIS:CB	2.57	0.53
2:AA:1365:A:C6	2:AA:1366:A:C5	2.97	0.53
2:AA:1527:G:O2'	2:AA:1545:A:N6	2.42	0.53
2:AA:1572:A:H2'	2:AA:1573:G:OP1	2.09	0.53
2:AA:1660:C:N3	2:AA:2001:A:N1	2.57	0.53
2:AA:1661:G:C6	2:AA:1662:C:C5	2.96	0.53
2:AA:1811:G:O2'	2:AA:1812:A:H5'	2.09	0.53
2:AA:1848:A:C5	34:BA:702:A:C2	2.97	0.53
2:AA:1903:G:C2	2:AA:1904:G:C8	2.97	0.53
2:AA:1909:C:C4	2:AA:1922:G:C2	2.97	0.53
2:AA:1986:A:N3	2:AA:1986:A:H2'	2.24	0.53
2:AA:2019:A:C2	2:AA:2020:A:N3	2.77	0.53
2:AA:2192:G:C6	2:AA:2193:G:N7	2.77	0.53
2:AA:2199:A:C2	2:AA:2225:A:C2	2.96	0.53
2:AA:2269:A:C2'	2:AA:2270:G:O5'	2.57	0.53
2:AA:2481:G:O2'	2:AA:2482:G:C5'	2.57	0.53
2:AA:2525:G:N2	2:AA:2539:C:C4	2.77	0.53
2:AA:2538:C:O2'	2:AA:2539:C:H5'	2.09	0.53
2:AA:2572:A:C8	5:AE:241:TRP:CD1	2.97	0.53
2:AA:2584:U:C2'	2:AA:2585:U:C6	2.83	0.53
2:AA:2686:G:C5	2:AA:2687:U:C6	2.96	0.53
3:AC:62:VAL:HG12	3:AC:163:PHE:CD2	2.44	0.53
3:AC:112:ALA:HB3	3:AC:156:ILE:HD13	1.90	0.53
3:AC:163:PHE:CD1	3:AC:171:ILE:HD11	2.44	0.53
4:AD:61:TYR:OH	4:AD:214:MET:SD	2.56	0.53
5:AE:93:GLN:O	5:AE:94:ARG:HG3	2.08	0.53
6:AF:56:THR:N	6:AF:79:ARG:HE	2.00	0.53
6:AF:90:HIS:N	6:AF:91:PRO:HD3	2.24	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:87:GLU:OE1	8:AH:89:VAL:N	2.42	0.53
9:AI:55:GLU:O	9:AI:56:LYS:CB	2.56	0.53
9:AI:61:VAL:O	9:AI:102:ILE:HG22	2.09	0.53
11:AL:12:GLN:C	11:AL:13:LEU:HG	2.34	0.53
11:AL:14:PRO:HG2	11:AL:17:LYS:HB2	1.90	0.53
11:AL:88:GLY:O	11:AL:89:SER:C	2.51	0.53
12:AM:15:ARG:HB3	12:AM:43:ARG:HD2	1.90	0.53
12:AM:45:VAL:O	12:AM:46:ILE:CG1	2.41	0.53
12:AM:74:ARG:HG2	12:AM:74:ARG:NH1	2.23	0.53
14:AO:116:HIS:HD2	14:AO:118:LEU:HD11	1.74	0.53
15:AP:35:ASN:CG	21:AV:113:VAL:CB	2.75	0.53
15:AP:43:PRO:HD3	21:AV:99:HIS:CD2	2.44	0.53
15:AP:49:VAL:HG22	15:AP:121:ASP:N	2.23	0.53
15:AP:130:PRO:HB2	15:AP:134:PHE:HZ	1.67	0.53
15:AP:135:ALA:HA	15:AP:138:ARG:CD	2.39	0.53
16:AQ:26:LEU:O	16:AQ:28:LYS:N	2.41	0.53
16:AQ:86:LEU:O	16:AQ:90:LEU:HG	2.07	0.53
18:AS:12:ILE:HG22	18:AS:13:SER:N	2.24	0.53
21:AV:96:VAL:CG2	21:AV:130:ILE:HD13	2.29	0.53
21:AV:142:ASN:N	21:AV:171:VAL:HG21	2.23	0.53
25:A1:15:LYS:C	25:A1:18:LEU:HB2	2.33	0.53
25:A1:93:LYS:O	26:A2:10:LYS:HD3	2.09	0.53
26:A2:20:ILE:HG23	26:A2:67:LYS:HZ3	1.73	0.53
27:A3:14:ARG:HH11	27:A3:14:ARG:HG3	1.73	0.53
27:A3:37:LEU:HD12	27:A3:68:VAL:C	2.34	0.53
28:A4:42:PHE:N	28:A4:57:ASP:CG	2.66	0.53
28:A4:46:GLU:O	28:A4:53:GLU:CA	2.57	0.53
29:A5:40:LYS:HE2	29:A5:48:ASN:HD22	1.74	0.53
33:A9:10:MET:O	33:A9:11:CYS:C	2.51	0.53
34:BA:22:G:N9	34:BA:914:A:N6	2.56	0.53
34:BA:80:G:C3'	34:BA:81:U:H5'	2.34	0.53
34:BA:232:G:H2'	34:BA:233:C:C6	2.42	0.53
34:BA:241:C:H42	34:BA:285:G:H1	1.56	0.53
34:BA:317:G:O2'	34:BA:318:G:C5'	2.57	0.53
34:BA:318:G:C6	34:BA:319:G:N7	2.77	0.53
34:BA:458:C:C4	34:BA:475:G:N1	2.77	0.53
34:BA:497:A:O2'	34:BA:498:U:OP1	2.21	0.53
34:BA:728:A:C8	50:BR:54:ARG:CZ	2.92	0.53
34:BA:790:A:N1	34:BA:791:G:C2	2.76	0.53
34:BA:878:G:O4'	43:BK:3:THR:CG2	2.54	0.53
34:BA:922:G:H2'	34:BA:923:A:C8	2.43	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:956:U:C2	34:BA:960:U:O4	2.61	0.53
34:BA:975:A:N7	34:BA:1365:G:N2	2.56	0.53
34:BA:1163:C:N4	34:BA:1174:G:C6	2.77	0.53
34:BA:1250:A:N3	34:BA:1370:G:O2'	2.40	0.53
34:BA:1257:U:C2'	34:BA:1258:G:OP2	2.57	0.53
34:BA:1263:C:O2'	34:BA:1264:C:C5'	2.55	0.53
34:BA:1320:C:C5	34:BA:1321:C:C4	2.97	0.53
34:BA:1369:C:OP2	44:BL:111:ARG:HA	2.09	0.53
35:BB:26:G:N3	35:BB:26:G:C2'	2.71	0.53
35:BB:41:U:C3'	35:BB:42:G:O4'	2.56	0.53
35:BC:57:G:C8	35:BC:57:G:C3'	2.91	0.53
36:B1:69:A:N3	36:B1:69:A:C2'	2.71	0.53
37:BE:15:VAL:HG22	37:BE:209:ARG:CD	2.31	0.53
37:BE:77:ALA:HB3	37:BE:211:ILE:HD13	1.90	0.53
37:BE:140:HIS:CA	37:BE:143:GLU:HB2	2.37	0.53
37:BE:177:ALA:O	37:BE:180:LEU:N	2.42	0.53
37:BE:220:ASP:O	37:BE:221:LEU:C	2.51	0.53
37:BE:221:LEU:C	37:BE:221:LEU:HD22	2.34	0.53
38:BF:117:ALA:O	38:BF:119:ARG:N	2.41	0.53
38:BF:147:LYS:HB2	38:BF:203:PHE:HB3	1.91	0.53
38:BF:155:GLY:O	38:BF:156:ARG:HB2	2.09	0.53
39:BG:3:ARG:NH2	39:BG:74:GLN:OE1	2.42	0.53
40:BH:8:GLU:OE2	40:BH:32:VAL:HG11	2.09	0.53
40:BH:104:ALA:N	40:BH:107:ARG:NH1	2.57	0.53
41:BI:52:ILE:HD13	41:BI:87:ARG:NH2	2.24	0.53
42:BJ:113:GLU:O	42:BJ:115:ARG:N	2.40	0.53
43:BK:96:GLY:N	43:BK:99:GLU:OE2	2.39	0.53
43:BK:126:LYS:C	43:BK:126:LYS:CD	2.82	0.53
44:BL:72:GLY:O	44:BL:75:ASP:CG	2.52	0.53
46:BN:50:TYR:CE1	46:BN:54:ARG:HB3	2.44	0.53
47:BO:37:CYS:SG	47:BO:58:VAL:HG22	2.49	0.53
47:BO:102:ARG:HB3	47:BO:108:ALA:O	2.09	0.53
47:BO:117:ARG:NH1	47:BO:124:LYS:HD2	2.24	0.53
48:BP:15:VAL:HG11	48:BP:39:ILE:CD1	2.39	0.53
50:BR:81:LEU:CD2	50:BR:85:LEU:HG	2.38	0.53
52:BT:29:HIS:ND1	52:BT:31:LEU:N	2.42	0.53
52:BT:82:MET:O	52:BT:85:VAL:N	2.41	0.53
53:BU:42:ARG:O	53:BU:43:PHE:CG	2.62	0.53
1:AB:12:C:H5''	27:A3:53:MET:CE	2.39	0.53
1:AB:18:G:H1'	1:AB:67:G:H22	1.74	0.53
2:AA:8:A:OP1	12:AM:102:ARG:NH2	2.41	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:71:A:C3'	2:AA:72:U:H5''	2.39	0.53
2:AA:76:C:H4'	22:AW:55:ARG:CD	2.39	0.53
2:AA:112:U:O4	2:AA:113:G:N3	2.42	0.53
2:AA:146:G:C2'	2:AA:147:U:C5'	2.84	0.53
2:AA:151:C:N3	2:AA:152:G:C2	2.77	0.53
2:AA:176:G:C3'	2:AA:177:G:H8	2.20	0.53
2:AA:270:A:OP2	2:AA:270(Y):G:O2'	2.27	0.53
2:AA:290:G:H3'	2:AA:290:G:H8	1.74	0.53
2:AA:354:G:N2	2:AA:355:G:O6	2.42	0.53
2:AA:414:C:H1'	2:AA:1864:U:O2'	2.09	0.53
2:AA:459:U:C5	2:AA:469:G:N2	2.76	0.53
2:AA:648:G:C2	2:AA:649:G:C5	2.96	0.53
2:AA:684:G:C5	2:AA:775:G:N7	2.77	0.53
2:AA:685:A:C2	2:AA:774:A:N1	2.77	0.53
2:AA:723:G:C2	2:AA:724:U:H1'	2.43	0.53
2:AA:784:A:OP1	2:AA:2588:G:C5'	2.57	0.53
2:AA:821:A:N7	2:AA:946:G:N7	2.57	0.53
2:AA:917:A:C2'	2:AA:918:A:H5''	2.39	0.53
2:AA:954:G:OP1	15:AP:10:ILE:CA	2.52	0.53
2:AA:1065:U:C3'	2:AA:1066:U:C5'	2.80	0.53
2:AA:1072:C:H2'	2:AA:1093:G:C6	2.44	0.53
2:AA:1080:C:O2'	2:AA:1081:U:H5'	2.08	0.53
2:AA:1084:A:N7	9:AI:37:VAL:HG11	2.24	0.53
2:AA:1108:U:O4	2:AA:1109:C:N4	2.42	0.53
2:AA:1129:A:N1	2:AA:2570:G:H1'	2.24	0.53
2:AA:1324:G:N2	2:AA:1331:A:C4	2.77	0.53
2:AA:1350:C:C2	2:AA:1381:G:N2	2.69	0.53
2:AA:1514:U:O2	2:AA:1514:U:C2'	2.54	0.53
2:AA:1555:G:H5''	2:AA:1556:C:H5	1.74	0.53
2:AA:1754:C:C2	2:AA:1755:A:C4	2.97	0.53
2:AA:1909:C:H2'	2:AA:1910:G:H5'	1.89	0.53
2:AA:1993:U:C4'	5:AE:228:ARG:NH2	2.55	0.53
2:AA:2015:A:H2'	2:AA:2016:U:C6	2.44	0.53
2:AA:2078:C:C4'	2:AA:2434:A:H5'	2.38	0.53
2:AA:2100:G:C1'	2:AA:2190:G:N2	2.69	0.53
2:AA:2354:G:C2'	27:A3:31:VAL:HG13	2.39	0.53
2:AA:2431:U:O2	2:AA:2433:A:C8	2.62	0.53
2:AA:2469:A:H2	2:AA:2482:G:C1'	2.19	0.53
2:AA:2495:G:H4'	15:AP:101:MET:HB2	1.90	0.53
2:AA:2602:A:H3'	35:BC:74:C:H5''	1.91	0.53
2:AA:2680:C:H3'	5:AE:206:LYS:HZ1	1.72	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2718:G:C5	2:AA:2719:G:C5	2.96	0.53
2:AA:2771:C:H2'	2:AA:2771:C:O2	2.07	0.53
2:AA:2840:C:N4	2:AA:2841:C:N4	2.57	0.53
2:AA:2850:A:H2'	2:AA:2851:A:C8	2.43	0.53
3:AC:42:GLU:HG2	3:AC:174:PRO:HA	1.90	0.53
3:AC:47:LEU:HD21	3:AC:196:LEU:HD11	1.91	0.53
3:AC:68:LEU:CB	3:AC:72:VAL:CG2	2.84	0.53
3:AC:69:GLY:C	3:AC:71:GLN:N	2.67	0.53
3:AC:72:VAL:O	3:AC:72:VAL:HG12	2.08	0.53
3:AC:74:VAL:CG1	3:AC:153:ILE:HG23	2.38	0.53
3:AC:190:ARG:NH2	3:AC:228:SER:O	2.42	0.53
4:AD:66:PHE:CD2	4:AD:66:PHE:O	2.62	0.53
4:AD:141:HIS:C	4:AD:143:ILE:N	2.61	0.53
4:AD:142:ASN:CG	4:AD:190:THR:CG2	2.82	0.53
5:AE:109:ASP:CG	5:AE:112:LEU:CB	2.82	0.53
6:AF:16:VAL:CG1	6:AF:17:ASP:N	2.72	0.53
6:AF:33:LYS:O	6:AF:34:ALA:C	2.52	0.53
6:AF:242:GLU:O	6:AF:245:GLU:HB2	2.09	0.53
7:AG:95:THR:HG22	7:AG:96:SER:N	2.24	0.53
8:AH:143:LEU:CD2	8:AH:144:ALA:N	2.67	0.53
9:AJ:25:LEU:HA	9:AJ:28:LYS:HG3	1.90	0.53
9:AJ:55:GLU:O	9:AJ:56:LYS:CB	2.57	0.53
9:AJ:71:ILE:HG21	11:AL:66:PHE:CE1	2.44	0.53
10:AK:107:GLY:O	10:AK:109:LYS:CE	2.56	0.53
12:AM:15:ARG:HD3	12:AM:43:ARG:HD2	1.89	0.53
15:AP:122:PHE:N	15:AP:122:PHE:CD2	2.76	0.53
17:AR:10:GLY:HA2	17:AR:53:ASP:OD2	2.09	0.53
19:AT:73:ASP:O	19:AT:78:ALA:O	2.26	0.53
20:AU:30:ASP:O	20:AU:31:LEU:C	2.50	0.53
20:AU:57:GLY:CA	20:AU:97:ARG:NH2	2.60	0.53
21:AV:103:ARG:H	21:AV:103:ARG:CD	2.19	0.53
21:AV:131:PRO:C	21:AV:133:GLU:H	2.16	0.53
24:A0:34:ILE:CG2	24:A0:35:THR:H	2.21	0.53
29:A5:6:VAL:HG13	29:A5:7:PRO:HG2	1.91	0.53
30:A6:34:LYS:HG3	30:A6:35:LEU:HD23	1.90	0.53
34:BA:68:G:C5	34:BA:69:G:C8	2.97	0.53
34:BA:277:C:N4	34:BA:278:G:C6	2.75	0.53
34:BA:301:G:C2	34:BA:302:G:N9	2.77	0.53
34:BA:328:C:O2	34:BA:328:C:C2'	2.57	0.53
34:BA:389:A:C4	34:BA:390:C:O4'	2.62	0.53
34:BA:439:A:H5''	34:BA:494:G:N2	2.23	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:452:A:N7	34:BA:480:U:O4	2.41	0.53
34:BA:460:A:N6	34:BA:462:G:N3	2.56	0.53
34:BA:483:C:H41	34:BA:484:G:N2	2.07	0.53
34:BA:564:C:OP1	47:BO:15:ARG:NE	2.42	0.53
34:BA:586:C:OP1	52:BT:34:LYS:CD	2.57	0.53
34:BA:643:C:HO2'	43:BK:132:GLU:CD	2.17	0.53
34:BA:665:A:N9	34:BA:725:G:N2	2.57	0.53
34:BA:791:G:H5''	34:BA:792:A:P	2.49	0.53
34:BA:830:G:C6	34:BA:857:C:N3	2.77	0.53
34:BA:834:C:N4	34:BA:853:G:O6	2.41	0.53
34:BA:897:C:C2	34:BA:903:G:C2	2.97	0.53
34:BA:949:A:C4	34:BA:1233:G:C2	2.97	0.53
34:BA:962:C:N4	34:BA:963:G:C5	2.77	0.53
34:BA:1010:G:N2	34:BA:1020:U:H1'	2.24	0.53
34:BA:1065:U:HO2'	34:BA:1066:C:P	2.32	0.53
34:BA:1097:C:H2'	34:BA:1098:C:C6	2.37	0.53
34:BA:1107:C:P	38:BF:172:ARG:HG2	2.48	0.53
34:BA:1125:U:O3'	34:BA:1126:U:H6	1.91	0.53
34:BA:1151:A:OP1	45:BM:42:THR:N	2.42	0.53
34:BA:1182:G:C4'	34:BA:1183:A:O5'	2.42	0.53
34:BA:1226:C:H4'	34:BA:1227:A:OP1	2.09	0.53
34:BA:1310:G:C2	34:BA:1328:C:C2	2.96	0.53
35:BB:60:C:OP1	35:BB:61:C:C5	2.62	0.53
35:BB:74:C:H2'	35:BB:75:C:O4'	2.09	0.53
35:BC:62:A:C2	35:BC:63:C:C2	2.97	0.53
37:BE:207:ALA:C	37:BE:209:ARG:N	2.65	0.53
38:BF:89:GLU:O	38:BF:91:LEU:N	2.42	0.53
39:BG:94:LEU:HD12	39:BG:200:GLU:OE2	2.08	0.53
40:BH:20:GLN:HE21	40:BH:20:GLN:HA	1.73	0.53
40:BH:76:ILE:CG2	40:BH:142:LEU:CD2	2.87	0.53
40:BH:91:LEU:CD1	40:BH:110:LEU:HD11	2.39	0.53
41:BI:8:ILE:HG23	41:BI:88:VAL:HG22	1.90	0.53
42:BJ:17:VAL:O	42:BJ:18:TYR:CD1	2.62	0.53
42:BJ:64:GLN:HG3	42:BJ:128:ALA:HB1	1.90	0.53
42:BJ:75:VAL:HG13	42:BJ:87:VAL:C	2.34	0.53
42:BJ:93:PRO:O	42:BJ:96:GLN:N	2.41	0.53
42:BJ:146:GLU:C	42:BJ:146:GLU:CD	2.77	0.53
43:BK:22:GLU:O	43:BK:63:LEU:HD11	2.09	0.53
43:BK:84:ARG:HD3	43:BK:136:GLU:OE1	2.09	0.53
43:BK:126:LYS:NZ	43:BK:127:LEU:CB	2.70	0.53
44:BL:15:ALA:CB	44:BL:77:ILE:N	2.72	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BL:111:ARG:NH2	45:BM:62:HIS:NE2	2.56	0.53
50:BR:59:MET:O	50:BR:60:VAL:C	2.52	0.53
52:BT:6:LEU:CB	52:BT:23:VAL:HG21	2.38	0.53
52:BT:27:PHE:CZ	52:BT:36:ILE:HD11	2.44	0.53
52:BT:81:ARG:CG	52:BT:84:LEU:HD11	2.32	0.53
53:BU:30:ASP:OD2	53:BU:32:ARG:HB2	2.08	0.53
55:BW:13:LEU:O	55:BW:16:HIS:CB	2.57	0.53
1:AB:5:C:C4	1:AB:6:C:N4	2.76	0.53
1:AB:75:G:H2'	1:AB:76:G:O4'	2.08	0.53
1:AB:85:G:C2	1:AB:86:G:C8	2.97	0.53
2:AA:146:G:N1	2:AA:147:U:C2	2.77	0.53
2:AA:152:G:N2	2:AA:176:G:C5	2.66	0.53
2:AA:215:G:H4'	2:AA:216:A:C5'	2.36	0.53
2:AA:237:C:C2	2:AA:260:G:N2	2.73	0.53
2:AA:244:A:H2'	2:AA:244:A:N3	2.23	0.53
2:AA:262:A:H2	2:AA:430:G:H1'	1.73	0.53
2:AA:311:A:N6	2:AA:328:U:O2	2.42	0.53
2:AA:319:C:C2'	2:AA:320:A:H8	2.21	0.53
2:AA:410:G:C2'	2:AA:411:G:OP2	2.56	0.53
2:AA:428:A:H3'	2:AA:429:A:C8	2.43	0.53
2:AA:487:C:N4	2:AA:488:G:C6	2.76	0.53
2:AA:599:G:H2'	2:AA:600:G:C8	2.44	0.53
2:AA:627:A:C2	2:AA:637:A:N3	2.77	0.53
2:AA:636:G:O6	14:AO:107:LYS:HD3	2.09	0.53
2:AA:722:A:C2	2:AA:723:G:C8	2.97	0.53
2:AA:723:G:H2'	2:AA:724:U:C6	2.40	0.53
2:AA:764:A:H5'	2:AA:765:G:OP2	2.09	0.53
2:AA:839:U:H4'	2:AA:1191:G:C2	2.43	0.53
2:AA:864:G:C2'	2:AA:865:C:H1'	2.38	0.53
2:AA:922:U:H2'	2:AA:923:C:C6	2.43	0.53
2:AA:962:G:C2'	2:AA:963:U:O4'	2.57	0.53
2:AA:1015:G:C6	2:AA:1148:A:C5	2.97	0.53
2:AA:1020:A:C2	2:AA:1141:U:OP2	2.62	0.53
2:AA:1157:G:C6	2:AA:1158:C:N4	2.77	0.53
2:AA:1222:C:C2	2:AA:1223:C:C6	2.97	0.53
2:AA:1317:A:C4	2:AA:1318:C:C6	2.97	0.53
2:AA:1353:A:C4	2:AA:1354:A:C8	2.97	0.53
2:AA:1451:C:H3'	2:AA:1451:C:H6	1.73	0.53
2:AA:1555:G:O5'	2:AA:1555:G:C8	2.62	0.53
2:AA:1657:C:O5'	2:AA:1657:C:H6	1.92	0.53
2:AA:1695:G:N3	2:AA:1696:G:O4'	2.42	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1777:U:O2'	2:AA:1778:U:H5'	2.09	0.53
2:AA:1918:A:C3'	2:AA:1918:A:P	2.95	0.53
2:AA:1944:U:C1'	2:AA:1955:U:C1'	2.87	0.53
2:AA:2015:A:C6	29:A5:6:VAL:HG21	2.43	0.53
2:AA:2055:C:C2'	2:AA:2055:C:O2	2.54	0.53
2:AA:2072:G:O6	2:AA:2073:C:N4	2.42	0.53
2:AA:2076:U:C6	2:AA:2076:U:H3'	2.45	0.53
2:AA:2115:G:O2'	3:AC:126:LYS:CD	2.37	0.53
2:AA:2115:G:C4'	3:AC:126:LYS:HE2	2.27	0.53
2:AA:2123:G:OP2	2:AA:2124:G:OP2	2.26	0.53
2:AA:2141:G:N1	2:AA:2151:G:C5	2.76	0.53
2:AA:2147:G:C2'	2:AA:2148:G:C8	2.90	0.53
2:AA:2243:U:O2	2:AA:2244:U:C1'	2.56	0.53
2:AA:2521:C:C2'	2:AA:2522:U:O5'	2.57	0.53
2:AA:2602:A:OP1	2:AA:2602:A:H3'	2.09	0.53
2:AA:2654:A:O2'	2:AA:2655:G:C4'	2.57	0.53
2:AA:2686:G:C2'	2:AA:2687:U:O4'	2.57	0.53
2:AA:2792:G:H1	2:AA:2803:C:H42	1.57	0.53
3:AC:29:VAL:CG1	3:AC:30:LYS:N	2.71	0.53
4:AD:85:ASN:OD1	4:AD:86:ARG:CZ	2.57	0.53
4:AD:123:ILE:O	4:AD:123:ILE:CG2	2.56	0.53
4:AD:133:ASN:O	4:AD:134:ILE:HG13	2.08	0.53
4:AD:141:HIS:HE1	4:AD:192:GLY:N	2.07	0.53
4:AD:157:ALA:O	4:AD:158:GLY:O	2.26	0.53
7:AG:56:ARG:CG	7:AG:65:GLU:HG3	2.38	0.53
7:AG:76:ARG:HB3	7:AG:77:ASP:OD1	2.09	0.53
8:AH:10:ILE:O	8:AH:10:ILE:HG22	2.09	0.53
8:AH:24:THR:HG22	8:AH:33:THR:HG22	1.91	0.53
8:AH:96:SER:HA	8:AH:124:VAL:HG21	1.91	0.53
8:AH:117:GLU:OE1	8:AH:117:GLU:C	2.52	0.53
9:AI:59:PHE:C	9:AI:128:LYS:HE3	2.34	0.53
10:AK:47:LEU:HD13	10:AK:51:LYS:HZ1	1.71	0.53
11:AL:104:GLN:O	11:AL:107:GLU:OE2	2.25	0.53
12:AM:25:GLN:O	12:AM:27:ALA:N	2.40	0.53
12:AM:37:ALA:HA	12:AM:102:ARG:O	2.09	0.53
13:AN:15:GLY:C	13:AN:52:VAL:HG21	2.33	0.53
13:AN:24:VAL:HG21	13:AN:32:TYR:N	2.23	0.53
18:AS:84:ARG:NE	18:AS:84:ARG:CA	2.59	0.53
19:AT:55:GLN:CG	19:AT:56:ASN:N	2.70	0.53
19:AT:75:GLN:O	19:AT:76:GLU:C	2.51	0.53
20:AU:28:SER:HB3	20:AU:99:THR:CB	2.39	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:51:LYS:HB3	22:AW:55:ARG:NE	2.21	0.53
24:A0:67:LEU:HD23	24:A0:76:VAL:CG2	2.39	0.53
24:A0:97:VAL:HA	24:A0:114:VAL:HG22	1.91	0.53
27:A3:46:LYS:HD2	27:A3:46:LYS:N	2.23	0.53
28:A4:48:ARG:NE	28:A4:71:SER:OG	2.41	0.53
34:BA:47:C:O2'	34:BA:48:C:P	2.67	0.53
34:BA:290:C:C2	34:BA:291:C:H6	2.26	0.53
34:BA:302:G:H2'	34:BA:556:C:H5''	1.91	0.53
34:BA:309:G:O2'	34:BA:310:G:O4'	2.25	0.53
34:BA:382:A:H2'	34:BA:383:A:C8	2.44	0.53
34:BA:382:A:O2'	34:BA:383:A:H5'	2.09	0.53
34:BA:458:C:C2	34:BA:475:G:C2	2.97	0.53
34:BA:553:A:O2'	34:BA:554:C:O4'	2.19	0.53
34:BA:598:U:H4'	43:BK:94:TYR:HB2	1.90	0.53
34:BA:657:G:N2	50:BR:22:THR:OG1	2.42	0.53
34:BA:657:G:C2	34:BA:750:G:C5	2.97	0.53
34:BA:719:C:H2'	53:BU:50:ILE:HB	1.91	0.53
34:BA:830:G:N1	34:BA:857:C:C2	2.77	0.53
34:BA:862:C:N4	34:BA:863:U:O4	2.42	0.53
34:BA:988:G:H22	34:BA:1016:A:H1'	1.72	0.53
34:BA:1095:U:OP1	34:BA:1108:G:N2	2.42	0.53
34:BA:1098:C:O2	34:BA:1099:G:O4'	2.27	0.53
34:BA:1156:G:H1'	34:BA:1179:A:N6	2.18	0.53
34:BA:1157:A:C2	34:BA:1180:A:C4	2.97	0.53
34:BA:1256:A:H2	34:BA:1258:G:C2	2.26	0.53
34:BA:1271:G:OP1	34:BA:1314:C:C5'	2.50	0.53
34:BA:1290:G:C6	34:BA:1291:G:C8	2.97	0.53
34:BA:1433:A:O2'	34:BA:1434:A:H5'	2.08	0.53
35:BB:15:G:H8	35:BB:15:G:P	2.30	0.53
35:BB:23:A:C2	35:BB:24:G:C6	2.97	0.53
35:BB:27:C:H42	35:BB:43:G:H1	1.55	0.53
35:BB:41:U:N3	35:BB:42:G:C8	2.77	0.53
35:BB:53:G:N1	35:BB:54:U:C4	2.77	0.53
35:BB:58:A:C6	35:BB:61:C:C2	2.97	0.53
35:BC:19:G:O3'	35:BC:20:G:C8	2.62	0.53
35:BC:44:A:H61	35:BC:45:G:H21	1.52	0.53
36:B1:59:A:P	36:B1:59:A:O4'	2.67	0.53
36:B1:61:U:H2'	36:B1:61:U:O2	2.09	0.53
37:BE:24:TRP:CE3	37:BE:32:ILE:HD12	2.44	0.53
37:BE:45:GLN:O	37:BE:46:LYS:C	2.50	0.53
37:BE:77:ALA:O	37:BE:78:GLN:C	2.51	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:52:LEU:CA	38:BF:70:VAL:HG13	2.39	0.53
38:BF:88:ARG:O	38:BF:91:LEU:HD13	2.09	0.53
40:BH:99:GLY:HA2	40:BH:116:THR:O	2.08	0.53
40:BH:107:ARG:HG2	40:BH:111:GLU:OE2	2.09	0.53
44:BL:38:GLN:C	44:BL:40:LEU:N	2.65	0.53
45:BM:38:ILE:O	45:BM:40:LEU:HG	2.09	0.53
45:BM:57:LYS:HG2	45:BM:57:LYS:O	2.09	0.53
47:BO:16:GLU:HG2	47:BO:17:LYS:O	2.08	0.53
48:BP:11:ARG:HH11	48:BP:11:ARG:CG	2.11	0.53
48:BP:100:GLY:O	48:BP:101:GLN:C	2.52	0.53
50:BR:75:PRO:O	50:BR:78:TYR:HB3	2.08	0.53
55:BW:65:LYS:O	55:BW:68:LYS:CB	2.57	0.53
55:BW:73:HIS:C	55:BW:76:ALA:HB3	2.34	0.53
1:AB:27:C:C4	1:AB:28:C:C4	2.96	0.52
1:AB:69:G:C5'	1:AB:70:C:OP2	2.45	0.52
2:AA:55:G:C2	2:AA:56:A:C8	2.97	0.52
2:AA:72:U:C2'	2:AA:73:A:OP1	2.57	0.52
2:AA:273(F):C:O2	2:AA:363(A):A:C6	2.61	0.52
2:AA:360:G:H3'	2:AA:360:G:OP2	2.08	0.52
2:AA:458:G:H2'	2:AA:469:G:H1	1.74	0.52
2:AA:492:A:C2'	2:AA:493:G:C5'	2.87	0.52
2:AA:501:A:C5	2:AA:502:A:N6	2.77	0.52
2:AA:506:G:H2'	2:AA:507:A:OP2	2.09	0.52
2:AA:628:G:H8	2:AA:628:G:P	2.32	0.52
2:AA:658:C:O2'	6:AF:103:ASN:ND2	2.42	0.52
2:AA:687:C:O2'	2:AA:1780:A:N6	2.40	0.52
2:AA:706:A:H8	2:AA:706:A:O5'	1.91	0.52
2:AA:707:G:H1	2:AA:724:U:H3	1.49	0.52
2:AA:819:A:C8	2:AA:819:A:H3'	2.43	0.52
2:AA:874:G:OP1	21:AV:172:LEU:HD11	2.09	0.52
2:AA:879:G:N2	2:AA:880:G:C1'	2.72	0.52
2:AA:936:C:O2'	2:AA:937:U:O5'	2.26	0.52
2:AA:945:A:C6	2:AA:2448:A:C2	2.96	0.52
2:AA:1028:A:C2	2:AA:1029:A:N7	2.77	0.52
2:AA:1156:A:C2	25:A1:51:ARG:NE	2.77	0.52
2:AA:1171:G:O4'	2:AA:1171:G:P	2.66	0.52
2:AA:1289:C:H2'	2:AA:1290:C:O5'	2.08	0.52
2:AA:1346:G:C4	2:AA:1347:G:N7	2.77	0.52
2:AA:1444:G:H3'	2:AA:1445:C:C5	2.44	0.52
2:AA:1525:G:C5	2:AA:1526:G:C5	2.97	0.52
2:AA:1568:G:C5'	4:AD:60:GLN:CG	2.80	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1580:A:C2	2:AA:1581:G:C2	2.97	0.52
2:AA:1650:G:N2	2:AA:1651:G:C1'	2.73	0.52
2:AA:1650:G:C6	2:AA:2008:C:C4	2.97	0.52
2:AA:1741:C:H2'	2:AA:1742:C:C5'	2.37	0.52
2:AA:1796:U:C2	2:AA:1797:C:C4	2.96	0.52
2:AA:1825:A:C6	2:AA:1826:G:O6	2.62	0.52
2:AA:1854:A:H1'	2:AA:2087:G:N2	2.24	0.52
2:AA:2013:A:C2'	2:AA:2014:A:C5'	2.86	0.52
2:AA:2053:G:C1'	5:AE:245:ARG:HG2	2.39	0.52
2:AA:2069:G:O2'	2:AA:2070:G:H5'	2.08	0.52
2:AA:2127:G:N7	2:AA:2174:C:C5	2.77	0.52
2:AA:2213:U:H3'	2:AA:2213:U:C2	2.44	0.52
2:AA:2305:A:H8	2:AA:2306:C:H5''	1.72	0.52
2:AA:2396:G:OP1	28:A4:28:ARG:CZ	2.58	0.52
2:AA:2484:G:C2	2:AA:2485:G:C1'	2.93	0.52
2:AA:2485:G:C2'	2:AA:2486:G:H5'	2.39	0.52
2:AA:2515:C:H2'	2:AA:2515:C:O2	2.08	0.52
2:AA:2520:C:C5	2:AA:2567:G:C4	2.96	0.52
2:AA:2532:G:C6	2:AA:2533:A:C6	2.97	0.52
2:AA:2704:C:C2'	2:AA:2705:A:O4'	2.55	0.52
2:AA:2706:G:N2	2:AA:2707:G:C4	2.77	0.52
2:AA:2743:C:C2'	2:AA:2744:G:O5'	2.57	0.52
2:AA:2807:G:O6	2:AA:2892:A:C8	2.62	0.52
3:AC:29:VAL:HG13	3:AC:30:LYS:N	2.24	0.52
3:AC:127:LEU:O	3:AC:128:GLY:C	2.52	0.52
5:AE:256:THR:CB	5:AE:259:HIS:CE1	2.91	0.52
6:AF:24:THR:HB	6:AF:25:PRO:HD2	1.91	0.52
7:AG:56:ARG:HA	7:AG:63:ILE:HA	1.91	0.52
8:AH:84:LYS:HE3	8:AH:141:GLY:HA3	1.90	0.52
10:AK:135:PRO:C	10:AK:136:GLU:HG3	2.34	0.52
11:AL:8:GLN:O	11:AL:9:ILE:HG13	2.09	0.52
11:AL:105:ILE:HG22	11:AL:106:GLU:N	2.22	0.52
13:AN:9:LYS:O	13:AN:83:ALA:CB	2.54	0.52
13:AN:20:LEU:HB2	13:AN:44:LYS:HZ3	1.73	0.52
13:AN:21:VAL:HG12	13:AN:22:ILE:C	2.33	0.52
15:AP:35:ASN:HD21	21:AV:113:VAL:C	2.17	0.52
15:AP:56:ILE:C	15:AP:61:LEU:HD11	2.34	0.52
18:AS:65:LEU:O	18:AS:66:GLU:C	2.51	0.52
18:AS:66:GLU:CG	18:AS:67:ASP:N	2.70	0.52
20:AU:19:ARG:C	20:AU:67:LEU:HD22	2.34	0.52
20:AU:31:LEU:HD22	20:AU:113:GLU:CD	2.33	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:37:LYS:HD2	21:AV:41:ARG:HH12	1.74	0.52
21:AV:90:GLU:N	21:AV:91:PRO:CD	2.72	0.52
21:AV:98:VAL:CG2	21:AV:134:LEU:HB3	2.39	0.52
21:AV:123:VAL:CG1	21:AV:161:ALA:H	2.21	0.52
24:A0:54:LEU:O	24:A0:57:ARG:HB2	2.10	0.52
25:A1:22:LYS:N	25:A1:24:PHE:HE2	2.07	0.52
25:A1:98:ILE:CD1	25:A1:98:ILE:N	2.71	0.52
27:A3:27:GLY:CA	27:A3:60:PHE:CE2	2.92	0.52
27:A3:48:GLY:O	27:A3:54:GLY:O	2.26	0.52
30:A6:36:GLU:CA	30:A6:52:GLU:OE1	2.57	0.52
31:A7:25:LYS:N	31:A7:25:LYS:CE	2.72	0.52
32:A8:12:ARG:C	32:A8:13:ARG:O	2.52	0.52
32:A8:30:ARG:H	32:A8:34:THR:HG21	1.74	0.52
33:A9:7:VAL:C	33:A9:8:LYS:HE3	2.34	0.52
33:A9:19:ARG:CD	33:A9:24:LEU:HD12	2.37	0.52
34:BA:19:C:O4'	34:BA:864:A:H1'	2.09	0.52
34:BA:80:G:C3'	34:BA:81:U:C5'	2.87	0.52
34:BA:154:C:O2'	34:BA:155:C:H5'	2.09	0.52
34:BA:165:C:H2'	34:BA:166:G:H8	1.74	0.52
34:BA:190(F):G:C4'	34:BA:190(G):G:OP2	2.42	0.52
34:BA:255:G:C2	34:BA:256:U:C5	2.97	0.52
34:BA:280:C:C1'	52:BT:38:ARG:CZ	2.87	0.52
34:BA:328:C:O2	34:BA:328:C:H3'	2.08	0.52
34:BA:509:A:O2'	34:BA:510:A:C5'	2.57	0.52
34:BA:585:G:O2'	34:BA:879:C:H5''	2.08	0.52
34:BA:598:U:O2	34:BA:599:C:C6	2.61	0.52
34:BA:667:G:H4'	50:BR:51:HIS:CG	2.44	0.52
34:BA:682:G:C6	34:BA:709:G:C6	2.96	0.52
34:BA:809:G:N2	34:BA:810:C:C1'	2.72	0.52
34:BA:821:G:O2'	34:BA:822:C:H5'	2.08	0.52
34:BA:855:G:H2'	34:BA:856:C:O5'	2.09	0.52
34:BA:867:G:H2'	34:BA:868:C:C6	2.44	0.52
34:BA:939:G:N1	34:BA:1344:C:N4	2.22	0.52
34:BA:1117:G:N3	34:BA:1184:G:C2	2.77	0.52
34:BA:1163:C:H42	34:BA:1173:G:H1	0.70	0.52
34:BA:1202:G:H1'	49:BQ:42:ILE:HD13	1.90	0.52
34:BA:1330:U:H3'	34:BA:1331:G:C8	2.44	0.52
34:BA:1366:C:P	44:BL:117:HIS:HE2	2.32	0.52
34:BA:1418:A:C2	34:BA:1483:A:C2	2.97	0.52
35:BB:47:U:H2'	35:BB:48:C:H5'	1.91	0.52
35:BC:50:U:C2	35:BC:65:G:N2	2.77	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:55:U:O2'	35:BC:57:G:N7	2.40	0.52
37:BE:64:ARG:HG2	37:BE:65:GLY:N	2.23	0.52
37:BE:167:PRO:C	37:BE:169:LYS:N	2.64	0.52
37:BE:223:ILE:HA	37:BE:226:ARG:HB2	1.91	0.52
38:BF:182:ILE:CD1	38:BF:203:PHE:HD1	2.21	0.52
39:BG:120:LEU:HG	39:BG:125:HIS:HD2	1.67	0.52
40:BH:71:LEU:HD11	40:BH:114:GLY:O	2.10	0.52
41:BI:97:PHE:N	53:BU:32:ARG:HG3	2.24	0.52
43:BK:24:THR:C	43:BK:60:ARG:HG3	2.30	0.52
45:BM:36:GLY:O	45:BM:72:VAL:HA	2.09	0.52
45:BM:48:THR:HG22	45:BM:49:VAL:N	2.23	0.52
47:BO:89:ARG:C	47:BO:90:VAL:CG2	2.82	0.52
48:BP:73:GLU:C	48:BP:73:GLU:CD	2.77	0.52
50:BR:28:GLN:O	50:BR:31:LEU:HB2	2.09	0.52
50:BR:49:ASP:CG	50:BR:52:SER:HB2	2.34	0.52
52:BT:97:SER:CB	52:BT:103:GLY:CA	2.88	0.52
55:BW:73:HIS:HD2	55:BW:74:LYS:HE2	1.74	0.52
1:AB:18:G:O5'	7:AG:149:ARG:NE	2.43	0.52
2:AA:216:A:N6	2:AA:432:A:C8	2.77	0.52
2:AA:252:G:N2	2:AA:253:C:N1	2.57	0.52
2:AA:270(I):G:N1	2:AA:270(Q):C:N4	2.30	0.52
2:AA:287:C:N3	2:AA:353:G:C6	2.77	0.52
2:AA:311:A:C6	2:AA:328:U:N3	2.74	0.52
2:AA:329:G:H5'	2:AA:330:A:OP2	2.08	0.52
2:AA:383:U:C2	2:AA:385:C:N4	2.77	0.52
2:AA:422:A:O2'	2:AA:423:A:P	2.67	0.52
2:AA:576:U:H2'	2:AA:577:G:H8	1.74	0.52
2:AA:775:G:C5'	2:AA:777:A:C1'	2.69	0.52
2:AA:783:A:N6	2:AA:785:G:C8	2.77	0.52
2:AA:873:G:C2	2:AA:874:G:H1'	2.44	0.52
2:AA:909:A:C2	2:AA:912:C:C1'	2.93	0.52
2:AA:965:C:H1'	2:AA:2273:A:C2	2.44	0.52
2:AA:1095:A:C8	2:AA:1096:A:H8	2.26	0.52
2:AA:1265:A:C8	2:AA:1267:U:O4	2.63	0.52
2:AA:1301:A:N6	2:AA:1303:G:C4	2.73	0.52
2:AA:1304:C:N3	2:AA:1624:G:N2	2.45	0.52
2:AA:1345:C:C2	2:AA:1346:G:C8	2.97	0.52
2:AA:1357:U:C4	2:AA:1358:G:C5	2.97	0.52
2:AA:1444:G:H3'	2:AA:1445:C:H5	1.73	0.52
2:AA:1499:C:C2'	2:AA:1500:G:O5'	2.58	0.52
2:AA:1630:G:H8	2:AA:1630:G:O5'	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1679:U:O2'	2:AA:1990:C:H4'	2.08	0.52
2:AA:1797:C:C6	2:AA:1797:C:C3'	2.93	0.52
2:AA:1805:U:N3	2:AA:1813:G:N2	2.56	0.52
2:AA:1818:U:C4	4:AD:155:ARG:NH1	2.77	0.52
2:AA:1819:A:O2'	2:AA:1820:U:P	2.68	0.52
2:AA:2101:G:H2'	2:AA:2102:U:O4'	2.09	0.52
2:AA:2147:G:C4	2:AA:2148:G:N7	2.77	0.52
2:AA:2236:C:N4	2:AA:2237:G:C2	2.77	0.52
2:AA:2348:U:C2	2:AA:2349:G:C8	2.97	0.52
2:AA:2361:A:H2'	2:AA:2362:G:O4'	2.09	0.52
2:AA:2465:C:O3'	33:A9:5:SER:OG	2.24	0.52
2:AA:2468:G:HO2'	2:AA:2469:A:H5'	1.70	0.52
2:AA:2470:G:N2	2:AA:2471:C:C2	2.77	0.52
2:AA:2476:A:H2'	2:AA:2477:C:H5'	1.91	0.52
2:AA:2511:U:O2	5:AE:236:GLY:HA3	2.10	0.52
2:AA:2579:C:C4'	5:AE:231:TRP:HH2	2.21	0.52
2:AA:2631:G:C1'	2:AA:2892:A:H1'	2.38	0.52
2:AA:2646:C:H2'	2:AA:2647:U:O4'	2.08	0.52
2:AA:2707:G:C2'	2:AA:2708:G:O5'	2.57	0.52
2:AA:2785:C:C4'	5:AE:99:VAL:HG22	2.39	0.52
2:AA:2799:A:O2'	2:AA:2802:G:C4	2.60	0.52
2:AA:2821:A:H2'	2:AA:2822:G:C8	2.44	0.52
2:AA:2831:G:H1'	2:AA:2883:A:C2	2.43	0.52
4:AD:85:ASN:HB2	4:AD:86:ARG:NE	2.23	0.52
4:AD:172:ILE:O	4:AD:172:ILE:HG22	2.07	0.52
5:AE:102:ASP:CG	5:AE:104:PHE:CE1	2.87	0.52
5:AE:205:THR:HG21	5:AE:259:HIS:N	2.25	0.52
9:AJ:25:LEU:O	9:AJ:28:LYS:HB2	2.10	0.52
9:AJ:59:PHE:C	9:AJ:128:LYS:HE3	2.34	0.52
10:AK:6:LEU:O	10:AK:14:LYS:HE2	2.09	0.52
10:AK:130:PRO:HA	10:AK:140:THR:HG23	1.90	0.52
11:AL:109:ALA:O	11:AL:110:LYS:C	2.50	0.52
13:AN:1:MET:O	13:AN:33:ALA:O	2.28	0.52
15:AP:11:LYS:NZ	15:AP:55:GLN:CG	2.71	0.52
15:AP:41:THR:O	15:AP:125:TRP:CZ3	2.58	0.52
15:AP:47:GLU:O	15:AP:140:TYR:OH	2.26	0.52
15:AP:53:PRO:O	15:AP:53:PRO:HG2	2.10	0.52
15:AP:58:HIS:CE1	15:AP:59:ASN:CG	2.87	0.52
16:AQ:120:GLU:HA	16:AQ:123:ILE:CB	2.39	0.52
18:AS:45:TYR:HD2	18:AS:46:PHE:HD1	1.57	0.52
21:AV:26:LYS:HD2	21:AV:27:GLU:CD	2.33	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:141:MET:HA	21:AV:171:VAL:HG11	1.90	0.52
23:AX:35:ARG:C	23:AX:36:VAL:HG13	2.34	0.52
24:A0:84:ALA:O	24:A0:85:PRO:C	2.51	0.52
25:A1:62:ILE:O	25:A1:66:ASN:OD1	2.27	0.52
25:A1:65:ILE:HG22	25:A1:76:TYR:CE2	2.44	0.52
26:A2:36:LYS:CA	26:A2:60:VAL:HG22	2.40	0.52
26:A2:87:ARG:HB3	26:A2:87:ARG:NH1	2.19	0.52
27:A3:24:LYS:HD3	27:A3:56:ASP:OD2	2.09	0.52
27:A3:25:LYS:NZ	27:A3:57:HIS:ND1	2.56	0.52
28:A4:43:TRP:CB	28:A4:56:VAL:O	2.57	0.52
30:A6:42:PRO:HD3	30:A6:50:PHE:CZ	2.44	0.52
31:A7:3:ARG:C	31:A7:4:THR:OG1	2.52	0.52
32:A8:25:PHE:O	32:A8:26:LYS:C	2.51	0.52
34:BA:42:G:C6	34:BA:43:C:C4	2.97	0.52
34:BA:155:C:H2'	34:BA:156:G:C8	2.43	0.52
34:BA:317:G:H2'	34:BA:318:G:O5'	2.10	0.52
34:BA:360:A:C2'	34:BA:361:G:H5'	2.40	0.52
34:BA:377:G:HO2'	34:BA:378:G:C5'	2.19	0.52
34:BA:380:G:N1	34:BA:384:G:C6	2.77	0.52
34:BA:414:A:C2'	34:BA:415:A:H8	2.19	0.52
34:BA:415:A:C2	34:BA:416:G:H1'	2.44	0.52
34:BA:445:G:O2'	34:BA:446:G:C5'	2.57	0.52
34:BA:499:A:O2'	34:BA:500:G:O5'	2.27	0.52
34:BA:499:A:H1'	34:BA:500:G:O4'	2.09	0.52
34:BA:673:G:C4	34:BA:734:G:C2	2.98	0.52
34:BA:706:A:N3	34:BA:707:C:C6	2.77	0.52
34:BA:740:U:O2'	34:BA:741:G:C5'	2.57	0.52
34:BA:838:G:H2'	34:BA:839:U:H5''	1.91	0.52
34:BA:954:G:N2	34:BA:1228:C:C5	2.77	0.52
34:BA:964:A:C5'	34:BA:1199:U:OP1	2.58	0.52
34:BA:1025:U:C2'	34:BA:1026:G:C8	2.91	0.52
34:BA:1067:A:H2	34:BA:1068:G:C4	2.27	0.52
34:BA:1074:G:C4	34:BA:1075:C:C6	2.97	0.52
34:BA:1127:G:H21	34:BA:1146:A:H62	1.55	0.52
34:BA:1505:G:C4'	34:BA:1506:U:O5'	2.56	0.52
35:BB:19:G:O3'	35:BB:20:G:N9	2.42	0.52
35:BB:21:A:H3'	35:BB:21:A:H8	1.75	0.52
35:BC:30:G:N2	35:BC:41:U:C6	2.77	0.52
35:BC:36:A:H2'	35:BC:36:A:N3	2.24	0.52
35:BC:70:C:O2'	35:BC:71:G:H5'	2.10	0.52
37:BE:201:ILE:N	37:BE:201:ILE:HD13	2.23	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:43:LEU:O	38:BF:44:GLU:C	2.52	0.52
38:BF:121:ALA:O	38:BF:124:ILE:CB	2.55	0.52
38:BF:138:VAL:HG13	38:BF:149:ALA:HB3	1.92	0.52
39:BG:4:TYR:CD2	39:BG:5:ILE:N	2.77	0.52
39:BG:71:SER:O	39:BG:75:PHE:HB3	2.10	0.52
40:BH:33:VAL:HG21	40:BH:108:ALA:CB	2.39	0.52
40:BH:57:LYS:HG2	40:BH:61:TYR:CE2	2.38	0.52
41:BI:5:GLU:HB3	41:BI:62:TRP:NE1	2.22	0.52
41:BI:49:ALA:HB3	53:BU:79:LEU:N	2.25	0.52
41:BI:53:ALA:O	41:BI:55:ASP:N	2.42	0.52
42:BJ:45:ASP:O	42:BJ:49:ILE:HD12	2.09	0.52
43:BK:73:ASP:OD2	43:BK:73:ASP:C	2.51	0.52
44:BL:110:GLU:O	44:BL:111:ARG:HB2	2.10	0.52
45:BM:31:GLY:HA2	45:BM:76:ASN:O	2.09	0.52
55:BW:18:GLN:O	55:BW:19:SER:C	2.51	0.52
1:AB:85:G:C4	1:AB:92:G:N2	2.76	0.52
2:AA:110:G:O6	2:AA:111:A:N6	2.43	0.52
2:AA:142:G:H2'	2:AA:143:C:OP1	2.08	0.52
2:AA:161:U:H6	2:AA:161:U:P	2.32	0.52
2:AA:363(B):G:H2'	2:AA:363(C):G:C8	2.44	0.52
2:AA:399:G:C3'	2:AA:400:G:H5'	2.39	0.52
2:AA:467:G:O2'	2:AA:468:G:H5'	2.08	0.52
2:AA:570:G:C6	2:AA:2030:A:C2	2.97	0.52
2:AA:917:A:C2	2:AA:918:A:C4	2.96	0.52
2:AA:943:U:H5''	2:AA:944:G:O6	2.09	0.52
2:AA:979:G:H3'	2:AA:979:G:H8	1.67	0.52
2:AA:993:G:C1'	2:AA:1162:G:H22	2.21	0.52
2:AA:993:G:O6	2:AA:1160:G:O6	2.26	0.52
2:AA:1013:C:O2'	2:AA:1014:U:H5'	2.10	0.52
2:AA:1031:G:C6	2:AA:1032:A:C6	2.98	0.52
2:AA:1120:G:H2'	2:AA:1121:C:H6	1.74	0.52
2:AA:1208:C:C4	2:AA:1240:U:O4	2.63	0.52
2:AA:1336:A:O2'	2:AA:1337:G:H5'	2.09	0.52
2:AA:1376:C:O2	2:AA:1376:C:C2'	2.55	0.52
2:AA:1515:C:P	2:AA:1515:C:O4'	2.68	0.52
2:AA:1543:A:C3'	2:AA:1544:C:C6	2.78	0.52
2:AA:1742:C:N3	2:AA:1743:G:N7	2.57	0.52
2:AA:1805:U:C4	2:AA:1813:G:N2	2.77	0.52
2:AA:1838:C:C5	2:AA:1899:G:C6	2.97	0.52
2:AA:1855:G:C6	2:AA:1856:G:N7	2.77	0.52
2:AA:1894:C:O2	2:AA:1895:C:C6	2.63	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1910:G:N2	2:AA:1921:G:H1'	2.24	0.52
2:AA:1934:C:O4'	2:AA:1974:C:H4'	2.10	0.52
2:AA:1954:G:C2	2:AA:2551:C:H5''	2.45	0.52
2:AA:1982:C:C2	2:AA:1983:C:C5	2.97	0.52
2:AA:2085:C:H2'	2:AA:2086:U:O5'	2.09	0.52
2:AA:2112:G:O2'	2:AA:2116:G:H8	1.91	0.52
2:AA:2213:U:H4'	2:AA:2215:G:N7	2.25	0.52
2:AA:2306:C:H3'	2:AA:2306:C:C6	2.44	0.52
2:AA:2321:G:H21	2:AA:2322:A:C1'	2.15	0.52
2:AA:2346:A:H2'	2:AA:2347:C:OP1	2.10	0.52
2:AA:2481:G:C2'	2:AA:2482:G:OP2	2.57	0.52
2:AA:2488:A:C2'	2:AA:2489:G:O5'	2.56	0.52
2:AA:2489:G:H2'	2:AA:2490:G:O4'	2.09	0.52
2:AA:2582:G:H2'	2:AA:2583:G:H5'	1.90	0.52
2:AA:2611:U:HO2'	2:AA:2612:C:P	2.32	0.52
2:AA:2694:G:N1	2:AA:2695:C:C4	2.78	0.52
2:AA:2714:G:H2'	2:AA:2715:C:C5'	2.39	0.52
2:AA:2822:G:C5'	5:AE:258:TYR:OH	2.45	0.52
2:AA:2838:G:C6	2:AA:2839:G:C5	2.97	0.52
2:AA:2853:C:H2'	2:AA:2854:G:O4'	2.08	0.52
2:AA:2866:U:O2'	2:AA:2867:G:P	2.68	0.52
3:AC:79:LYS:NZ	3:AC:79:LYS:CB	2.72	0.52
3:AC:171:ILE:HG12	3:AC:172:HIS:N	2.24	0.52
4:AD:130:PRO:CB	4:AD:186:LYS:O	2.58	0.52
4:AD:158:GLY:H	4:AD:196:ASN:HD21	1.55	0.52
5:AE:226:HIS:HA	5:AE:229:GLN:CD	2.34	0.52
6:AF:36:ARG:O	6:AF:39:GLN:OE1	2.27	0.52
6:AF:110:ALA:O	6:AF:111:VAL:C	2.51	0.52
6:AF:241:ALA:O	6:AF:244:ALA:N	2.42	0.52
7:AG:51:ARG:HH22	7:AG:74:THR:HG21	1.73	0.52
7:AG:146:LYS:O	7:AG:148:SER:N	2.42	0.52
8:AH:21:ASN:CB	8:AH:38:PRO:HB3	2.40	0.52
8:AH:90:GLY:HA2	8:AH:159:LYS:HG3	1.92	0.52
9:AI:99:ASP:O	9:AI:101:VAL:N	2.41	0.52
9:AI:99:ASP:C	9:AI:101:VAL:H	2.17	0.52
16:AQ:99:GLU:OE1	16:AQ:128:ASP:CG	2.53	0.52
18:AS:12:ILE:HG23	18:AS:13:SER:H	1.75	0.52
19:AT:56:ASN:OD1	19:AT:62:LYS:NZ	2.42	0.52
20:AU:78:THR:C	20:AU:89:ARG:NE	2.67	0.52
21:AV:75:LYS:CD	21:AV:77:ALA:HB3	2.39	0.52
21:AV:150:GLY:O	21:AV:152:ILE:N	2.43	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:23:LEU:HD22	23:AX:53:LEU:CD1	2.40	0.52
24:A0:34:ILE:O	24:A0:113:LEU:HA	2.10	0.52
26:A2:80:TYR:O	26:A2:82:ARG:N	2.43	0.52
27:A3:37:LEU:HB2	27:A3:69:PHE:N	2.23	0.52
27:A3:68:VAL:HG21	27:A3:72:LYS:CD	2.39	0.52
28:A4:17:GLN:O	28:A4:19:GLN:NE2	2.42	0.52
34:BA:44:G:C5	34:BA:399:G:N1	2.78	0.52
34:BA:59:A:C1'	34:BA:388:G:H5''	2.39	0.52
34:BA:190:C:H6	34:BA:190:C:O5'	1.91	0.52
34:BA:190(K):G:H2'	34:BA:190(L):U:C6	2.43	0.52
34:BA:226:G:N2	34:BA:227:G:H1'	2.24	0.52
34:BA:261:U:H3'	34:BA:263:A:OP2	2.09	0.52
34:BA:267:C:H2'	34:BA:268:C:H6	1.73	0.52
34:BA:271:C:C2'	34:BA:272:C:O5'	2.57	0.52
34:BA:306:G:H2'	34:BA:307:C:C5	2.44	0.52
34:BA:330:C:H2'	34:BA:331:G:O5'	2.09	0.52
34:BA:376:G:C2	34:BA:377:G:C8	2.97	0.52
34:BA:686:U:OP1	34:BA:686:U:H4'	2.09	0.52
34:BA:737:A:H5'	41:BI:90:VAL:HG12	1.90	0.52
34:BA:859:A:O2'	34:BA:860:A:C5'	2.56	0.52
34:BA:934:C:N4	34:BA:939:G:N2	2.57	0.52
34:BA:945:G:N2	34:BA:1337:G:C2	2.77	0.52
34:BA:973:G:C3'	34:BA:974:A:H5''	2.38	0.52
34:BA:1006:C:N4	34:BA:1024:G:N2	2.53	0.52
34:BA:1234:C:O2'	56:BX:14:TRP:HZ2	1.92	0.52
34:BA:1241:G:O2'	34:BA:1242:C:H5'	2.09	0.52
34:BA:1272:G:H2'	34:BA:1273:G:O4'	2.09	0.52
34:BA:1285:A:O2'	34:BA:1286:A:P	2.67	0.52
34:BA:1290:G:N1	34:BA:1291:G:C8	2.77	0.52
34:BA:1316:G:O6	54:BV:6:LYS:CE	2.52	0.52
34:BA:1404:C:C2	34:BA:1405:G:N7	2.78	0.52
34:BA:1497:G:H2'	34:BA:1498:U:C5	2.44	0.52
34:BA:1503:A:O2'	34:BA:1507:A:H4'	2.10	0.52
35:BB:21:A:C8	35:BB:21:A:C3'	2.92	0.52
35:BB:23:A:C2	35:BB:24:G:C5	2.97	0.52
35:BB:33:U:H2'	35:BB:34:G:C8	2.45	0.52
35:BC:31:A:O5'	44:BL:127:LYS:HD2	2.09	0.52
35:BC:63:C:C2'	35:BC:64:A:O5'	2.58	0.52
36:B1:25:U:C5	36:B1:27:G:OP2	2.62	0.52
37:BE:17:PHE:HA	37:BE:42:ILE:CG2	2.36	0.52
37:BE:41:ILE:HD12	37:BE:41:ILE:N	2.25	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:48:MET:HE3	37:BE:51:LEU:HD11	1.92	0.52
37:BE:61:LEU:CA	37:BE:64:ARG:HH11	2.23	0.52
38:BF:28:GLN:O	38:BF:30:ARG:N	2.43	0.52
39:BG:172:PRO:HG3	39:BG:193:ASP:HB3	1.91	0.52
41:BI:26:ILE:C	41:BI:30:LEU:CD1	2.82	0.52
42:BJ:112:PRO:O	42:BJ:113:GLU:C	2.51	0.52
42:BJ:126:ASP:CA	42:BJ:129:GLU:HB2	2.39	0.52
43:BK:32:LYS:O	43:BK:33:GLU:C	2.50	0.52
45:BM:51:ARG:HH22	45:BM:61:GLU:CD	2.16	0.52
45:BM:65:LEU:HD12	49:BQ:56:VAL:HG22	1.89	0.52
46:BN:12:ARG:CD	46:BN:75:TYR:CD2	2.93	0.52
48:BP:15:VAL:HG21	48:BP:39:ILE:HD12	1.91	0.52
48:BP:96:LEU:O	48:BP:97:PRO:C	2.52	0.52
49:BQ:23:ARG:HE	49:BQ:30:ALA:HB2	1.69	0.52
50:BR:83:GLU:O	50:BR:83:GLU:OE1	2.28	0.52
52:BT:57:VAL:HG23	52:BT:58:GLU:H	1.74	0.52
54:BV:61:TYR:HD2	54:BV:62:ILE:N	2.07	0.52
1:AB:17:C:C2'	1:AB:18:G:O4'	2.56	0.52
1:AB:32:C:C2'	1:AB:33:G:C8	2.88	0.52
1:AB:43:C:H1'	7:AG:47:GLN:HG2	1.92	0.52
2:AA:7:G:N1	2:AA:2896:C:O2	2.27	0.52
2:AA:51:G:C5'	2:AA:52:A:OP1	2.45	0.52
2:AA:126:A:H4'	31:A7:19:ARG:NE	2.22	0.52
2:AA:137(A):G:O6	2:AA:139:G:C4	2.63	0.52
2:AA:138:G:C2	2:AA:139:G:O4'	2.63	0.52
2:AA:266:G:H3'	2:AA:266:G:C8	2.44	0.52
2:AA:273(D):C:C4	2:AA:363(B):G:C2	2.97	0.52
2:AA:318:C:OP2	2:AA:318:C:C5	2.63	0.52
2:AA:322:A:O4'	2:AA:341:G:C5'	2.52	0.52
2:AA:324:A:N3	2:AA:324:A:C2'	2.70	0.52
2:AA:349:G:N1	2:AA:350:U:C5	2.78	0.52
2:AA:464:U:OP2	31:A7:5:TYR:HE2	1.91	0.52
2:AA:469:G:OP2	6:AF:56:THR:HG22	2.09	0.52
2:AA:504:U:O5'	2:AA:504:U:H6	1.92	0.52
2:AA:848:G:N1	2:AA:849:A:N6	2.56	0.52
2:AA:945:A:H61	2:AA:2448:A:H2	1.55	0.52
2:AA:965:C:O2'	2:AA:966:G:H5'	2.09	0.52
2:AA:1022:G:C5	2:AA:1139:G:N1	2.78	0.52
2:AA:1026:U:C6	2:AA:1026:U:H3'	2.44	0.52
2:AA:1099:G:H2'	2:AA:1100:C:H6	1.73	0.52
2:AA:1127:A:C2'	2:AA:1128:A:OP2	2.57	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1255:U:C5'	2:AA:1256:G:C5'	2.83	0.52
2:AA:1335:U:C2'	2:AA:1336:A:O5'	2.57	0.52
2:AA:1412:A:H2'	2:AA:1413:G:H8	1.71	0.52
2:AA:1418:G:H3'	2:AA:1418:G:OP2	2.10	0.52
2:AA:1422:G:N2	2:AA:1423:G:C4	2.78	0.52
2:AA:1444:G:C2'	2:AA:1445:C:H5	2.22	0.52
2:AA:1449:A:H5'	2:AA:1528:A:N1	2.24	0.52
2:AA:1486:A:H2'	2:AA:1487:G:O4'	2.09	0.52
2:AA:1491:G:C8	2:AA:1491:G:OP2	2.63	0.52
2:AA:1525:G:C2	2:AA:1526:G:C4	2.97	0.52
2:AA:1624:G:H2'	2:AA:1625:C:C5	2.45	0.52
2:AA:1630:G:C5	2:AA:630(A):C:H5	2.27	0.52
2:AA:1701:A:H2	34:BA:1474:G:H4'	1.74	0.52
2:AA:1709:U:O2'	2:AA:2859:G:H1'	2.09	0.52
2:AA:1799:G:C2	4:AD:153:LEU:HD11	2.45	0.52
2:AA:1916:A:C8	2:AA:1916:A:OP2	2.62	0.52
2:AA:1928:A:C3'	2:AA:1929:G:H5'	2.38	0.52
2:AA:1931:U:C5	2:AA:1932:A:N7	2.78	0.52
2:AA:2064:C:H5'	2:AA:2065:C:OP2	2.10	0.52
2:AA:2133:G:N3	2:AA:2133:G:C2'	2.73	0.52
2:AA:2327:A:C5	2:AA:2388:A:N1	2.78	0.52
2:AA:2353:G:C2	2:AA:2364:C:N3	2.76	0.52
2:AA:2666:C:C2'	2:AA:2667:C:H5'	2.39	0.52
2:AA:2729:G:C6	2:AA:2730:C:C4	2.97	0.52
2:AA:2759:G:O2'	2:AA:2760:C:C5'	2.57	0.52
2:AA:2816:C:H2'	2:AA:2817:G:H5'	1.92	0.52
2:AA:2892:A:C3'	2:AA:2893:G:C8	2.93	0.52
5:AE:229:GLN:O	5:AE:231:TRP:N	2.42	0.52
5:AE:264:LEU:C	5:AE:265:ASN:CG	2.76	0.52
6:AF:32:GLY:O	6:AF:35:VAL:HG23	2.09	0.52
6:AF:231:ARG:C	6:AF:232:LEU:HG	2.33	0.52
7:AG:54:ALA:O	7:AG:55:LYS:HB2	2.09	0.52
8:AH:23:VAL:HG12	8:AH:25:VAL:HG23	1.91	0.52
10:AK:84:GLY:O	10:AK:85:GLU:HG3	2.10	0.52
10:AK:88:ARG:CZ	10:AK:122:ARG:H	2.22	0.52
11:AL:12:GLN:NE2	11:AL:74:PRO:HG2	2.23	0.52
11:AL:15:ALA:C	11:AL:17:LYS:H	2.17	0.52
12:AM:15:ARG:C	12:AM:17:CYS:H	2.17	0.52
14:AO:64:ILE:O	14:AO:107:LYS:O	2.28	0.52
14:AO:72:ASN:O	14:AO:75:LEU:HB2	2.09	0.52
15:AP:26:LYS:CD	15:AP:90:PHE:CE1	2.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:66:ASN:O	15:AP:69:ASN:CG	2.53	0.52
16:AQ:17:ARG:NH2	16:AQ:106:LEU:HD22	2.24	0.52
16:AQ:66:LEU:CB	16:AQ:69:TYR:OH	2.58	0.52
17:AR:5:GLU:HB3	17:AR:8:TYR:O	2.08	0.52
18:AS:3:ALA:CB	18:AS:62:HIS:ND1	2.70	0.52
18:AS:84:ARG:O	18:AS:95:ILE:CA	2.56	0.52
19:AT:73:ASP:C	19:AT:75:GLN:CD	2.78	0.52
20:AU:41:ARG:C	20:AU:112:LEU:HB3	2.35	0.52
21:AV:24:TYR:CB	21:AV:83:PHE:O	2.55	0.52
21:AV:34:LEU:O	21:AV:35:ASP:CB	2.45	0.52
21:AV:69:VAL:HG22	21:AV:81:VAL:HG13	1.90	0.52
22:AW:48:GLU:O	22:AW:49:LEU:C	2.52	0.52
24:A0:60:LEU:HG	24:A0:61:HIS:H	1.73	0.52
25:A1:96:ALA:O	25:A1:97:ASP:C	2.53	0.52
25:A1:108:ALA:HA	25:A1:111:ASP:OD1	2.10	0.52
26:A2:5:ILE:O	26:A2:40:VAL:HG23	2.10	0.52
26:A2:20:ILE:HG21	26:A2:67:LYS:CD	2.39	0.52
26:A2:49:GLU:O	26:A2:54:TYR:CZ	2.62	0.52
27:A3:64:ASP:O	27:A3:66:LYS:NZ	2.37	0.52
28:A4:15:ILE:N	28:A4:15:ILE:CD1	2.72	0.52
29:A5:18:MET:O	29:A5:21:SER:N	2.42	0.52
30:A6:42:PRO:CD	30:A6:47:HIS:O	2.55	0.52
32:A8:6:THR:O	32:A8:8:LYS:N	2.42	0.52
34:BA:89:C:H2'	34:BA:90:U:C6	2.44	0.52
34:BA:110:C:H3'	34:BA:111:G:C8	2.45	0.52
34:BA:125:U:H2'	34:BA:126:G:H8	1.70	0.52
34:BA:246:A:C6	34:BA:279:A:C5	2.97	0.52
34:BA:319:G:C2'	34:BA:320:C:O5'	2.57	0.52
34:BA:327:A:C6	34:BA:329:A:C5	2.98	0.52
34:BA:510:A:O2'	34:BA:542:G:O2'	2.26	0.52
34:BA:597:G:O5'	34:BA:597:G:C8	2.62	0.52
34:BA:694:A:C2	34:BA:695:A:C1'	2.93	0.52
34:BA:828:A:O2'	34:BA:829:G:O5'	2.16	0.52
34:BA:905:U:O4	34:BA:906:G:C2	2.63	0.52
34:BA:920:U:C2	34:BA:921:U:C5	2.97	0.52
34:BA:960:U:C2	34:BA:1225:A:C5	2.98	0.52
34:BA:1015:A:C6	34:BA:1016:A:C6	2.98	0.52
34:BA:1055:A:N3	38:BF:156:ARG:NH1	2.58	0.52
34:BA:1059:C:O2	34:BA:1059:C:C2'	2.56	0.52
34:BA:1120:G:H1	34:BA:1153:C:N4	2.08	0.52
34:BA:1265:G:O6	34:BA:1266:G:C2	2.62	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1373:G:H1'	42:BJ:34:GLY:CA	2.40	0.52
34:BA:1381:U:H2'	34:BA:1381:U:O2	2.09	0.52
34:BA:1401:G:H2'	34:BA:1402:C:C5'	2.39	0.52
34:BA:1409:C:HO2'	34:BA:1410:G:H5'	1.72	0.52
34:BA:1529:G:C5'	34:BA:1530:G:OP2	2.55	0.52
37:BE:25:ASN:C	37:BE:27:LYS:H	2.17	0.52
37:BE:110:GLN:O	37:BE:113:HIS:HB2	2.09	0.52
37:BE:127:ILE:C	37:BE:129:GLU:H	2.16	0.52
37:BE:140:HIS:O	37:BE:143:GLU:CB	2.56	0.52
38:BF:29:TYR:CE1	45:BM:65:LEU:HD11	2.32	0.52
41:BI:4:TYR:OH	41:BI:69:GLU:HA	2.09	0.52
41:BI:60:PHE:HZ	53:BU:78:LEU:HD21	1.74	0.52
41:BI:67:MET:CE	41:BI:72:VAL:HG22	2.40	0.52
42:BJ:94:ARG:HH11	42:BJ:94:ARG:HG3	1.75	0.52
42:BJ:129:GLU:CD	42:BJ:131:LYS:HE2	2.35	0.52
43:BK:25:ASP:C	43:BK:58:TYR:CE2	2.85	0.52
43:BK:104:ARG:NE	43:BK:138:TRP:CZ3	2.77	0.52
44:BL:37:PHE:CA	44:BL:40:LEU:HD12	2.39	0.52
50:BR:56:LEU:HD12	50:BR:59:MET:HE3	1.91	0.52
51:BS:7:ALA:HB3	51:BS:18:ARG:HB2	1.92	0.52
52:BT:59:ILE:CG2	52:BT:71:PHE:HD2	2.22	0.52
53:BU:45:SER:HB3	53:BU:51:LEU:CD1	2.32	0.52
1:AB:24:G:N1	1:AB:56:G:C2	2.77	0.52
1:AB:73:A:N6	1:AB:104:A:C8	2.78	0.52
2:AA:33:U:C2'	2:AA:34:C:OP2	2.57	0.52
2:AA:53:A:O5'	2:AA:53:A:C8	2.62	0.52
2:AA:137(A):G:N1	2:AA:139:G:N2	2.57	0.52
2:AA:145:G:N2	2:AA:146:G:H1'	2.24	0.52
2:AA:222:A:C2'	2:AA:223:A:OP2	2.57	0.52
2:AA:332:A:C8	2:AA:335:C:N4	2.78	0.52
2:AA:358:U:O2	2:AA:359:A:H5'	2.10	0.52
2:AA:586:A:N1	2:AA:809:G:C2'	2.72	0.52
2:AA:600:G:H5'	6:AF:30:LEU:HD12	1.84	0.52
2:AA:702:G:N2	2:AA:703:U:C2	2.78	0.52
2:AA:783:A:HO2'	2:AA:784:A:P	2.31	0.52
2:AA:832:G:H8	2:AA:944:G:H21	1.58	0.52
2:AA:907:U:C2	2:AA:908:C:C5	2.97	0.52
2:AA:1022:G:N1	2:AA:1139:G:N3	2.58	0.52
2:AA:1061:U:H4'	2:AA:1070:A:C4'	2.39	0.52
2:AA:1084:A:N3	2:AA:1084:A:H2'	2.23	0.52
2:AA:1203:G:H2'	2:AA:1206:G:C8	2.43	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1288:U:H2'	2:AA:1327:C:O2	2.09	0.52
2:AA:1299:G:N2	2:AA:1642:G:O6	2.43	0.52
2:AA:1333:C:H6	2:AA:1333:C:C5'	2.17	0.52
2:AA:1356:G:C2	2:AA:1357:U:C2	2.97	0.52
2:AA:1380:G:C6	2:AA:1381:G:N7	2.78	0.52
2:AA:1399:C:O2'	2:AA:1400:G:H5'	2.10	0.52
2:AA:1570:A:C2	2:AA:1571:A:C8	2.97	0.52
2:AA:1591:G:C6	2:AA:1592:C:N4	2.77	0.52
2:AA:1594:G:C2'	2:AA:1595:G:H5'	2.39	0.52
2:AA:1603:A:N3	2:AA:1604:C:C5	2.77	0.52
2:AA:1605:C:H3'	2:AA:1606:G:C8	2.45	0.52
2:AA:1608:A:C6	2:AA:1611:C:N1	2.78	0.52
2:AA:1657:C:C6	2:AA:1657:C:C3'	2.93	0.52
2:AA:1799:G:N2	4:AD:153:LEU:CG	2.73	0.52
2:AA:1819:A:OP1	4:AD:157:ALA:HB2	2.10	0.52
2:AA:1861:G:C2	2:AA:1862:G:C4	2.98	0.52
2:AA:1913:A:C2	2:AA:1916:A:C4	2.97	0.52
2:AA:1984:G:C6	2:AA:1985:G:C8	2.97	0.52
2:AA:2057:A:C4	2:AA:2058:A:C8	2.97	0.52
2:AA:2143:C:H2'	2:AA:2144:U:OP1	2.09	0.52
2:AA:2250:G:N7	15:AP:101:MET:HE1	2.25	0.52
2:AA:2407:G:C2	2:AA:2408:U:C4	2.98	0.52
2:AA:2432:A:H2	2:AA:2433:A:C6	2.27	0.52
2:AA:2568:C:H2'	2:AA:2569:G:C5'	2.40	0.52
2:AA:2737:G:H8	2:AA:2737:G:O5'	1.92	0.52
2:AA:2821:A:O2'	2:AA:2822:G:O4'	2.25	0.52
2:AA:2856:C:H2'	2:AA:2857:G:O5'	2.10	0.52
3:AC:10:LEU:HD23	3:AC:220:PRO:CG	2.40	0.52
3:AC:70:LYS:HG2	3:AC:157:LYS:CE	2.40	0.52
4:AD:77:VAL:H	4:AD:114:GLU:H	1.57	0.52
4:AD:142:ASN:H	4:AD:143:ILE:CD1	2.20	0.52
4:AD:154:VAL:HG22	4:AD:157:ALA:HB3	1.87	0.52
5:AE:48:MET:C	5:AE:49:THR:CG2	2.82	0.52
5:AE:222:ARG:CB	5:AE:227:ALA:HA	2.39	0.52
6:AF:197:SER:HB2	6:AF:238:SER:CA	2.39	0.52
6:AF:218:VAL:CG1	6:AF:222:ASP:OD2	2.53	0.52
7:AG:49:PRO:HB2	7:AG:72:LYS:N	2.25	0.52
8:AH:151:ARG:O	8:AH:161:ILE:CG1	2.49	0.52
9:AI:15:VAL:HG21	9:AI:49:ALA:CA	2.39	0.52
9:AI:62:VAL:HA	9:AI:100:ALA:O	2.09	0.52
9:AJ:41:ALA:O	9:AJ:44:VAL:HB	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:26:ALA:CB	10:AK:30:LEU:HD12	2.39	0.52
10:AK:68:LEU:HD13	10:AK:108:LEU:HD21	1.92	0.52
10:AK:75:LEU:CD1	10:AK:76:THR:N	2.59	0.52
12:AM:15:ARG:CD	12:AM:40:ASN:ND2	2.73	0.52
12:AM:52:GLN:CB	12:AM:55:GLU:OE2	2.58	0.52
15:AP:54:VAL:HG22	15:AP:55:GLN:N	2.25	0.52
15:AP:82:LYS:HD2	15:AP:125:TRP:CB	2.39	0.52
16:AQ:18:THR:OG1	16:AQ:19:ASP:N	2.42	0.52
16:AQ:35:VAL:HG22	16:AQ:103:ASP:CG	2.34	0.52
20:AU:40:VAL:HG12	20:AU:41:ARG:CG	2.37	0.52
20:AU:68:ASP:C	20:AU:70:ALA:N	2.60	0.52
21:AV:21:ALA:O	21:AV:32:PHE:CB	2.58	0.52
21:AV:115:ILE:O	21:AV:169:VAL:HA	2.10	0.52
21:AV:153:LYS:HD2	21:AV:153:LYS:N	2.24	0.52
22:AW:2:VAL:HG12	22:AW:3:LEU:N	2.23	0.52
24:A0:16:HIS:O	24:A0:17:ARG:C	2.51	0.52
24:A0:88:ARG:HB2	24:A0:88:ARG:NH1	2.23	0.52
26:A2:38:LEU:HA	26:A2:58:ALA:CB	2.40	0.52
27:A3:46:LYS:HG3	27:A3:58:THR:HG23	1.91	0.52
31:A7:25:LYS:HZ3	31:A7:28:ARG:HH22	1.57	0.52
31:A7:27:GLY:O	31:A7:31:LEU:CG	2.39	0.52
32:A8:16:ILE:HG23	32:A8:22:VAL:HG23	1.91	0.52
34:BA:8:A:H5''	40:BH:121:LYS:HD2	1.91	0.52
34:BA:88:A:H2'	34:BA:89:C:O4'	2.09	0.52
34:BA:129(A):G:N2	34:BA:190(G):G:C8	2.77	0.52
34:BA:345:C:C4'	34:BA:346:G:O5'	2.49	0.52
34:BA:448:A:H2'	34:BA:449:C:C6	2.45	0.52
34:BA:530:G:O6	35:BB:34:G:C2	2.61	0.52
34:BA:627:G:H2'	34:BA:628:G:H8	1.71	0.52
34:BA:679:C:C6	34:BA:679:C:O5'	2.58	0.52
34:BA:954:G:H21	34:BA:1227:A:N6	1.99	0.52
34:BA:968:A:OP1	34:BA:968:A:O4'	2.27	0.52
34:BA:979:C:P	34:BA:981:U:O4	2.67	0.52
34:BA:1089:G:N1	34:BA:1097:C:C4	2.77	0.52
34:BA:1157:A:H61	34:BA:1178:G:H1'	1.75	0.52
34:BA:1483:A:OP2	34:BA:1484:C:C5	2.63	0.52
34:BA:1502:A:N3	34:BA:1502:A:H2'	2.24	0.52
35:BB:56:C:C6	35:BB:56:C:H3'	2.45	0.52
35:BC:19:G:C3'	35:BC:20:G:C8	2.92	0.52
35:BC:29:A:C2	35:BC:30:G:C8	2.98	0.52
37:BE:68:ILE:CG2	37:BE:70:PHE:CZ	2.93	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:91:PRO:CD	37:BE:154:LEU:HB3	2.39	0.52
39:BG:205:GLU:O	39:BG:206:PHE:C	2.52	0.52
40:BH:76:ILE:CG2	40:BH:142:LEU:HD22	2.40	0.52
41:BI:23:LYS:HZ2	41:BI:59:TYR:HE2	1.58	0.52
42:BJ:6:ARG:O	42:BJ:7:ALA:C	2.52	0.52
42:BJ:113:GLU:HG3	42:BJ:118:VAL:CG1	2.40	0.52
42:BJ:113:GLU:OE1	42:BJ:118:VAL:C	2.52	0.52
42:BJ:146:GLU:O	42:BJ:147:ALA:C	2.51	0.52
43:BK:64:LYS:HD3	43:BK:79:VAL:HG21	1.92	0.52
44:BL:50:LEU:CD2	44:BL:58:ARG:NH1	2.72	0.52
45:BM:24:VAL:HG21	45:BM:37:PRO:CD	2.18	0.52
45:BM:65:LEU:HD13	49:BQ:36:PHE:HZ	1.75	0.52
47:BO:6:THR:N	47:BO:9:GLN:OE1	2.42	0.52
47:BO:46:LYS:O	47:BO:48:PRO:N	2.42	0.52
47:BO:87:GLY:HA2	47:BO:99:HIS:H	1.74	0.52
50:BR:64:ARG:HG2	50:BR:65:ARG:N	2.23	0.52
52:BT:33:GLY:O	52:BT:34:LYS:C	2.53	0.52
53:BU:53:ARG:HH12	53:BU:60:GLY:N	2.07	0.52
54:BV:5:LEU:CB	54:BV:9:VAL:HG22	2.40	0.52
1:AB:62:C:O2'	1:AB:63:G:H5'	2.09	0.52
2:AA:26:G:H4'	2:AA:1260:G:O2'	2.09	0.52
2:AA:58:G:C3'	2:AA:73:A:N6	2.73	0.52
2:AA:71:A:C2'	2:AA:72:U:H5''	2.40	0.52
2:AA:223:A:C2	2:AA:408:G:N9	2.78	0.52
2:AA:270(X):G:C4	2:AA:270(Y):G:O4'	2.62	0.52
2:AA:326:G:C4	2:AA:327:G:C8	2.97	0.52
2:AA:361:G:C2'	2:AA:362:U:C6	2.87	0.52
2:AA:387:U:OP2	28:A4:31:ILE:HD11	2.10	0.52
2:AA:590:A:C6	2:AA:591:C:N4	2.78	0.52
2:AA:610:C:N3	2:AA:618(A):C:N3	2.58	0.52
2:AA:742:G:O2'	2:AA:743:G:H5'	2.10	0.52
2:AA:746:A:O2'	2:AA:747:U:P	2.68	0.52
2:AA:811:U:HO2'	2:AA:812:C:P	2.32	0.52
2:AA:888:C:HO2'	2:AA:889:C:H3'	1.72	0.52
2:AA:959:A:N6	2:AA:960:A:N6	2.57	0.52
2:AA:1013:C:OP2	2:AA:1014:U:P	2.68	0.52
2:AA:1027:A:N3	2:AA:1028:A:N7	2.58	0.52
2:AA:1091:G:N1	2:AA:1100:C:N4	2.57	0.52
2:AA:1102:C:C2'	2:AA:1103:A:O5'	2.57	0.52
2:AA:1152:C:H4'	25:A1:80:ILE:HB	1.92	0.52
2:AA:1202:C:C5	2:AA:1243:G:N1	2.72	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1202:C:H3'	2:AA:1203:G:H4'	1.92	0.52
2:AA:1222:C:H2'	2:AA:1223:C:H5'	1.91	0.52
2:AA:1227:A:OP2	25:A1:16:LYS:HE2	2.10	0.52
2:AA:1234:U:N3	2:AA:1235:G:C2	2.77	0.52
2:AA:1299:G:H21	2:AA:1641:A:N6	2.07	0.52
2:AA:1350:C:H2'	2:AA:1351:C:O5'	2.09	0.52
2:AA:1451:C:H3'	2:AA:1453:A:H5'	1.91	0.52
2:AA:1455:G:OP2	2:AA:1456:G:OP2	2.28	0.52
2:AA:1455:G:OP2	2:AA:1456:G:P	2.67	0.52
2:AA:1637:A:C2	2:AA:1638:C:C2	2.97	0.52
2:AA:1657:C:H2'	2:AA:1658:C:H6	1.74	0.52
2:AA:1680:U:H2'	2:AA:1681:G:H1'	1.91	0.52
2:AA:1701:A:C2	34:BA:1474:G:H4'	2.45	0.52
2:AA:1780:A:O5'	2:AA:1782:C:P	2.68	0.52
2:AA:1850:G:C5	2:AA:1851:U:C5	2.96	0.52
2:AA:1938:A:HO2'	2:AA:1939:U:P	2.28	0.52
2:AA:1973:G:N3	2:AA:1974:C:C5	2.78	0.52
2:AA:2029:G:N1	2:AA:2033:A:C8	2.78	0.52
2:AA:2122:U:H5	3:AC:129:ARG:NH2	2.06	0.52
2:AA:2182:G:C2'	2:AA:2183:C:C6	2.84	0.52
2:AA:2239:G:C2	2:AA:2240:C:C2	2.97	0.52
2:AA:2346:A:H1'	2:AA:2383:G:N9	2.25	0.52
2:AA:2354:G:C4'	27:A3:31:VAL:HG21	2.40	0.52
2:AA:2415:G:N2	2:AA:2416:C:N1	2.57	0.52
2:AA:2519:U:C2	2:AA:2542:A:C5	2.97	0.52
2:AA:2588:G:C6	2:AA:2589:A:C4	2.98	0.52
2:AA:2611:U:O2'	29:A5:2:ALA:CB	2.58	0.52
3:AC:5:LYS:HB3	3:AC:5:LYS:HZ2	1.75	0.52
3:AC:44:HIS:ND1	3:AC:172:HIS:HB2	2.24	0.52
3:AC:93:TYR:CE2	3:AC:110:PHE:CA	2.92	0.52
4:AD:108:ASN:O	4:AD:109:LEU:C	2.51	0.52
4:AD:210:LYS:HG3	4:AD:211:HIS:N	2.14	0.52
5:AE:76:PRO:HA	5:AE:292:PRO:HB2	1.88	0.52
5:AE:186:GLU:C	5:AE:187:HIS:CG	2.87	0.52
5:AE:239:GLY:O	5:AE:240:PRO:C	2.51	0.52
5:AE:315:VAL:O	5:AE:316:ARG:C	2.53	0.52
6:AF:167:ASP:OD2	6:AF:232:LEU:HG	2.10	0.52
7:AG:82:GLU:O	7:AG:85:GLN:CG	2.57	0.52
8:AH:37:HIS:HE1	8:AH:67:THR:CG2	2.20	0.52
8:AH:168:VAL:O	8:AH:169:ARG:CG	2.55	0.52
9:AI:81:THR:HG21	9:AI:102:ILE:O	2.08	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:99:ASP:C	9:AJ:101:VAL:H	2.17	0.52
10:AK:26:ALA:CA	10:AK:30:LEU:HD12	2.39	0.52
12:AM:57:TYR:CB	12:AM:135:ILE:CG2	2.85	0.52
13:AN:45:ASP:HA	13:AN:54:LYS:HE2	1.90	0.52
14:AO:55:GLN:NE2	14:AO:56:LYS:HD3	2.25	0.52
14:AO:101:ASP:O	14:AO:102:ASP:CB	2.57	0.52
15:AP:41:THR:HG21	15:AP:126:VAL:C	2.35	0.52
15:AP:64:ALA:CB	15:AP:142:LYS:CG	2.88	0.52
16:AQ:91:ARG:O	16:AQ:94:GLU:CG	2.55	0.52
18:AS:18:ARG:HG3	18:AS:76:VAL:HG11	1.91	0.52
18:AS:43:GLY:O	18:AS:44:ALA:C	2.52	0.52
18:AS:84:ARG:O	18:AS:95:ILE:HG12	2.09	0.52
21:AV:52:PHE:CA	21:AV:65:LEU:HD11	2.39	0.52
23:AX:23:LEU:CD2	23:AX:53:LEU:HD11	2.39	0.52
25:A1:14:HIS:O	25:A1:15:LYS:C	2.50	0.52
26:A2:11:GLN:OE1	26:A2:21:ARG:CD	2.57	0.52
26:A2:65:ARG:NH1	26:A2:94:LYS:HZ2	2.08	0.52
26:A2:74:TYR:HE2	26:A2:88:GLN:NE2	2.06	0.52
27:A3:24:LYS:CG	27:A3:56:ASP:OD1	2.58	0.52
31:A7:39:ARG:C	31:A7:40:HIS:ND1	2.67	0.52
33:A9:6:SER:HA	33:A9:8:LYS:HZ1	1.73	0.52
34:BA:159:G:N1	34:BA:163:C:N4	2.57	0.52
34:BA:343:U:O2'	34:BA:344:A:O5'	2.14	0.52
34:BA:379:C:N3	34:BA:384:G:N2	2.53	0.52
34:BA:394:G:C5	34:BA:395:C:C5	2.97	0.52
34:BA:410:G:OP2	39:BG:25:ARG:HG3	2.10	0.52
34:BA:432:A:C8	34:BA:433:C:C6	2.98	0.52
34:BA:538:G:C2'	34:BA:539:A:O5'	2.57	0.52
34:BA:600:C:H5'	43:BK:129:VAL:CA	2.35	0.52
34:BA:600:C:OP1	43:BK:97:VAL:CA	2.58	0.52
34:BA:652:U:O2'	34:BA:653:A:N3	2.32	0.52
34:BA:701:C:C2	34:BA:703:G:N2	2.78	0.52
34:BA:727:G:C8	34:BA:727:G:C3'	2.91	0.52
34:BA:872:A:O2'	34:BA:873:A:C5'	2.55	0.52
34:BA:909:A:C2'	34:BA:910:C:O5'	2.57	0.52
34:BA:913:A:O2'	34:BA:914:A:O5'	2.27	0.52
34:BA:939:G:C5'	42:BJ:102:ARG:HH12	2.20	0.52
34:BA:983:A:O2'	34:BA:1049:U:O2'	2.28	0.52
34:BA:1006:C:O2	34:BA:1006:C:H2'	2.08	0.52
34:BA:1007:C:O2'	34:BA:1008:C:C5'	2.58	0.52
34:BA:1053:G:OP1	34:BA:1054:C:H3'	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1259:C:O2'	34:BA:1283:G:N2	2.40	0.52
34:BA:1269:A:C2	34:BA:1312:G:N3	2.78	0.52
34:BA:1312:G:H2'	34:BA:1313:U:H6	1.74	0.52
35:BB:29:A:N3	35:BB:29:A:H2'	2.25	0.52
35:BB:50:U:O5'	35:BB:50:U:C6	2.58	0.52
35:BB:72:C:C2'	35:BB:73:A:O5'	2.57	0.52
35:BB:74:C:N4	35:BB:75:C:H1'	2.18	0.52
35:BC:74:C:H3'	35:BC:75:C:C5'	2.39	0.52
37:BE:19:HIS:CG	37:BE:20:GLU:H	2.27	0.52
37:BE:69:LEU:HD22	37:BE:70:PHE:H	1.75	0.52
37:BE:87:ARG:C	37:BE:89:GLY:N	2.67	0.52
37:BE:175:ARG:CG	37:BE:179:LYS:HE3	2.39	0.52
38:BF:28:GLN:HA	38:BF:30:ARG:HH12	1.74	0.52
38:BF:108:ASN:O	38:BF:111:LEU:HG	2.10	0.52
38:BF:206:GLU:OE2	38:BF:207:VAL:HG22	2.10	0.52
39:BG:25:ARG:NH2	39:BG:30:LYS:CD	2.71	0.52
40:BH:40:ARG:HA	40:BH:68:GLU:OE2	2.09	0.52
41:BI:53:ALA:HB3	41:BI:55:ASP:CG	2.34	0.52
41:BI:98:LEU:HD23	41:BI:99:ALA:O	2.09	0.52
41:BI:100:ASN:HD21	53:BU:23:LYS:C	2.18	0.52
43:BK:7:ALA:HA	43:BK:10:LEU:CD1	2.40	0.52
43:BK:84:ARG:HG2	43:BK:85:ARG:O	2.10	0.52
44:BL:17:VAL:C	44:BL:18:PHE:CD1	2.87	0.52
44:BL:46:ALA:HA	44:BL:78:LYS:HB2	1.90	0.52
45:BM:30:SER:CB	45:BM:81:THR:HA	2.38	0.52
46:BN:78:GLN:CA	46:BN:103:LEU:HD13	2.22	0.52
47:BO:33:ARG:HB3	47:BO:85:ILE:HG22	1.91	0.52
47:BO:113:ARG:O	47:BO:114:LYS:CG	2.58	0.52
48:BP:14:ARG:CG	48:BP:17:VAL:HG23	2.40	0.52
48:BP:36:LYS:HB3	48:BP:59:TYR:CZ	2.45	0.52
54:BV:5:LEU:HB2	54:BV:9:VAL:HG22	1.92	0.52
54:BV:81:ARG:HG2	54:BV:81:ARG:O	2.09	0.52
1:AB:35:U:C6	1:AB:35:U:C3'	2.93	0.52
1:AB:66:A:C2	1:AB:107:U:C4	2.98	0.52
2:AA:30:G:C4	2:AA:31:C:C5	2.98	0.52
2:AA:218:A:H61	2:AA:235:U:C1'	2.23	0.52
2:AA:228:A:H2'	2:AA:229:A:H5'	1.92	0.52
2:AA:242:G:C2'	2:AA:254:G:N1	2.72	0.52
2:AA:444:C:O4'	6:AF:46:TYR:CD1	2.63	0.52
2:AA:464:U:C6	2:AA:788:A:C2	2.98	0.52
2:AA:590:A:C6	2:AA:591:C:C4	2.97	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:601:C:O2	2:AA:604:G:H4'	2.09	0.52
2:AA:659:C:C5'	6:AF:103:ASN:OD1	2.52	0.52
2:AA:971:C:O2'	2:AA:972:G:P	2.68	0.52
2:AA:990:A:H5'	2:AA:1157:G:OP1	2.10	0.52
2:AA:997:G:HO2'	2:AA:998:C:H6	1.58	0.52
2:AA:1011:G:C2'	2:AA:1013:C:H5'	2.40	0.52
2:AA:1020:A:C4'	12:AM:49:ARG:NH1	2.66	0.52
2:AA:1054:A:N1	2:AA:1105:U:C2	2.78	0.52
2:AA:1175:U:O2	2:AA:1176:G:H1'	2.10	0.52
2:AA:1469:A:N6	2:AA:1470:G:N1	2.58	0.52
2:AA:1707:G:C4	2:AA:1708:C:C5	2.97	0.52
2:AA:1768:U:N3	2:AA:1985:G:C6	2.78	0.52
2:AA:1827:C:O2	2:AA:1828:G:C1'	2.57	0.52
2:AA:1851:U:C2	2:AA:1852:C:C5	2.97	0.52
2:AA:1933:G:N7	2:AA:1934:C:C5	2.78	0.52
2:AA:1937:A:N3	2:AA:1937:A:O4'	2.40	0.52
2:AA:1960:A:H1'	34:BA:1483:A:H2	1.75	0.52
2:AA:2049:G:O2'	2:AA:2050:C:O5'	2.28	0.52
2:AA:2195:C:C2'	2:AA:2196:C:C4'	2.87	0.52
2:AA:2340:G:C2	2:AA:2341:G:N7	2.77	0.52
2:AA:2348:U:H3'	32:A8:42:ARG:CZ	2.39	0.52
2:AA:2378:A:H1'	16:AQ:101:VAL:CG2	2.39	0.52
2:AA:2528:U:O2'	2:AA:2529:G:H8	1.92	0.52
2:AA:2564:A:C8	2:AA:2648:C:H5''	2.45	0.52
2:AA:2585:U:H1'	35:BC:76:A:C5	2.44	0.52
2:AA:2618:G:O2'	5:AE:246:VAL:HB	2.10	0.52
2:AA:2700:C:H2'	2:AA:2701:C:O4'	2.10	0.52
2:AA:2720:U:O4	2:AA:2873:A:N6	2.43	0.52
2:AA:2797:U:P	2:AA:2797:U:O4'	2.68	0.52
3:AC:110:PHE:HE1	3:AC:136:LEU:HB3	1.74	0.52
3:AC:129:ARG:O	3:AC:130:ILE:CD1	2.55	0.52
3:AC:131:LEU:HB3	3:AC:136:LEU:CA	2.38	0.52
3:AC:139:ASN:OD1	3:AC:142:ALA:HB3	2.09	0.52
4:AD:143:ILE:O	4:AD:152:GLN:C	2.53	0.52
5:AE:77:PRO:CB	5:AE:186:GLU:HB2	2.39	0.52
5:AE:222:ARG:O	5:AE:223:LYS:O	2.27	0.52
5:AE:299:SER:C	5:AE:301:PRO:N	2.64	0.52
6:AF:11:ASN:O	6:AF:13:ASP:N	2.43	0.52
6:AF:16:VAL:CG1	6:AF:17:ASP:H	2.23	0.52
6:AF:103:ASN:C	6:AF:107:ARG:HG3	2.35	0.52
6:AF:158:GLU:H	6:AF:158:GLU:CD	2.18	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:215:ALA:O	6:AF:242:GLU:HG2	2.09	0.52
6:AF:220:THR:HG22	6:AF:224:ALA:HB2	1.91	0.52
7:AG:44:ILE:HG22	7:AG:83:PHE:HE2	1.74	0.52
8:AH:10:ILE:CD1	8:AH:49:ILE:HG12	2.39	0.52
8:AH:34:ARG:HH11	8:AH:36:PHE:HZ	1.57	0.52
8:AH:35:THR:C	8:AH:36:PHE:CD1	2.88	0.52
8:AH:53:ARG:HB3	8:AH:53:ARG:HH11	1.73	0.52
9:AJ:71:ILE:HA	11:AL:61:TYR:CD2	2.44	0.52
9:AJ:89:LYS:NZ	11:AL:60:VAL:O	2.43	0.52
10:AK:133:LEU:N	10:AK:138:THR:HB	2.24	0.52
12:AM:15:ARG:HE	12:AM:40:ASN:ND2	2.06	0.52
13:AN:80:ASP:OD2	17:AR:22:VAL:O	2.28	0.52
14:AO:55:GLN:HE21	14:AO:56:LYS:CD	2.22	0.52
15:AP:45:GLN:NE2	15:AP:153:PRO:CB	2.60	0.52
15:AP:98:GLY:HA2	35:BC:1:G:O2'	2.09	0.52
15:AP:123:ILE:CG2	15:AP:124:ALA:N	2.71	0.52
17:AR:49:LEU:HD13	17:AR:54:THR:CG2	2.40	0.52
18:AS:11:ARG:O	18:AS:12:ILE:CG1	2.58	0.52
18:AS:23:LEU:HD11	29:A5:26:THR:CA	2.40	0.52
19:AT:10:VAL:HG12	19:AT:15:MET:HG2	1.92	0.52
20:AU:19:ARG:O	20:AU:67:LEU:HD22	2.08	0.52
21:AV:16:GLU:N	21:AV:16:GLU:OE1	2.43	0.52
21:AV:16:GLU:N	21:AV:36:ARG:HH22	2.08	0.52
21:AV:51:LEU:CG	21:AV:64:ALA:O	2.57	0.52
21:AV:92:VAL:HA	21:AV:124:ALA:CB	2.40	0.52
21:AV:106:GLY:HA2	21:AV:142:ASN:ND2	2.24	0.52
24:A0:45:ARG:CD	24:A0:97:VAL:HG23	2.32	0.52
24:A0:99:LYS:CB	29:A5:44:HIS:NE2	2.73	0.52
25:A1:43:ALA:HB1	26:A2:75:LYS:HB3	1.88	0.52
25:A1:74:MET:HE3	25:A1:75:ASN:N	2.25	0.52
25:A1:99:ALA:CB	25:A1:106:PHE:CD2	2.93	0.52
26:A2:7:THR:OG1	26:A2:11:GLN:NE2	2.43	0.52
26:A2:80:TYR:O	26:A2:82:ARG:HG3	2.10	0.52
27:A3:5:LYS:NZ	35:BC:3:G:H5''	2.25	0.52
27:A3:24:LYS:HG2	27:A3:56:ASP:CG	2.34	0.52
27:A3:46:LYS:HZ3	27:A3:81:ILE:HD11	1.72	0.52
27:A3:65:GLY:C	27:A3:66:LYS:HE3	2.34	0.52
34:BA:35:G:C6	34:BA:36:C:C4	2.98	0.52
34:BA:157:G:N1	34:BA:165:C:N4	2.58	0.52
34:BA:301:G:N2	34:BA:302:G:C4	2.77	0.52
34:BA:311:C:O5'	34:BA:311:C:H6	1.93	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:378:G:H2'	34:BA:379:C:C6	2.44	0.52
34:BA:442:C:C2'	34:BA:443:C:H5'	2.40	0.52
34:BA:572:A:C2	34:BA:864:A:N1	2.77	0.52
34:BA:586:C:H42	34:BA:755:G:H1	1.58	0.52
34:BA:594:G:H1	34:BA:645:C:N4	2.08	0.52
34:BA:611:A:N6	34:BA:629:G:C6	2.77	0.52
34:BA:752:G:O2'	34:BA:753:A:OP2	2.28	0.52
34:BA:771:G:O6	34:BA:808:C:N3	2.43	0.52
34:BA:776:G:N2	34:BA:802:A:P	2.79	0.52
34:BA:909:A:C2	34:BA:910:C:C1'	2.92	0.52
34:BA:976:G:N2	34:BA:1363:A:N7	2.58	0.52
34:BA:1005:A:C2'	34:BA:1006:C:H5'	2.39	0.52
34:BA:1104:G:H2'	34:BA:1105:A:O5'	2.10	0.52
34:BA:1124:G:P	45:BM:35:SER:O	2.68	0.52
34:BA:1130:A:N7	34:BA:1131:G:N7	2.58	0.52
34:BA:1150:U:O4'	34:BA:1280:A:N1	2.42	0.52
34:BA:1269:A:C2	34:BA:1312:G:H1'	2.44	0.52
34:BA:1317:C:OP1	34:BA:1317:C:C6	2.63	0.52
34:BA:1326:C:C2	34:BA:1327:C:C5	2.98	0.52
34:BA:1386:G:N1	34:BA:1387:G:C5	2.78	0.52
35:BB:51:G:N1	35:BB:63:C:N4	2.38	0.52
35:BC:44:A:C2	35:BC:45:G:N3	2.78	0.52
38:BF:19:GLU:HG2	38:BF:54:ARG:HG3	1.91	0.52
38:BF:95:THR:C	38:BF:97:LYS:N	2.68	0.52
39:BG:20:TYR:C	39:BG:31:CYS:SG	2.93	0.52
39:BG:60:GLU:CB	39:BG:202:LEU:HB3	2.39	0.52
39:BG:88:VAL:HG13	40:BH:97:GLY:HA3	1.91	0.52
41:BI:3:ARG:HG3	41:BI:65:VAL:C	2.35	0.52
42:BJ:113:GLU:O	42:BJ:113:GLU:CG	2.44	0.52
43:BK:45:ILE:HD12	43:BK:61:VAL:HG11	1.92	0.52
45:BM:37:PRO:HA	45:BM:72:VAL:HG22	1.91	0.52
46:BN:111:ASP:OD2	46:BN:111:ASP:O	2.27	0.52
47:BO:24:VAL:HG13	47:BO:98:TYR:CE2	2.45	0.52
52:BT:92:ARG:O	52:BT:95:TYR:CB	2.48	0.52
2:AA:23:G:N2	2:AA:24:G:C1'	2.68	0.52
2:AA:52:A:H8	2:AA:52:A:O5'	1.93	0.52
2:AA:72:U:O4	2:AA:112:U:O4'	2.27	0.52
2:AA:118:A:N9	2:AA:177:G:N2	2.57	0.52
2:AA:138:G:OP2	2:AA:139:G:OP2	2.28	0.52
2:AA:143:C:O2'	2:AA:144:C:O4'	2.20	0.52
2:AA:492:A:C2'	2:AA:493:G:O5'	2.58	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:586:A:C2	2:AA:810:U:O4'	2.63	0.52
2:AA:731:C:C2'	2:AA:732:C:H5'	2.40	0.52
2:AA:737:C:H2'	2:AA:738:G:C5'	2.40	0.52
2:AA:749:C:C6	2:AA:749:C:C3'	2.92	0.52
2:AA:818:G:O2'	2:AA:819:A:H5''	2.10	0.52
2:AA:827:U:C4	2:AA:2430:A:C6	2.97	0.52
2:AA:830:G:C8	2:AA:2448:A:N7	2.78	0.52
2:AA:972:G:OP2	2:AA:974(A):C:H5''	2.10	0.52
2:AA:996:A:C8	2:AA:1160:G:N2	2.78	0.52
2:AA:1104:C:O2'	9:AI:29:PHE:CD2	2.62	0.52
2:AA:1174:A:H2'	2:AA:1175:U:H5''	1.92	0.52
2:AA:1209:G:H4'	2:AA:1212:G:H5''	1.92	0.52
2:AA:1303:G:O6	2:AA:1624:G:C6	2.63	0.52
2:AA:1358:G:C6	2:AA:1371:G:H2'	2.44	0.52
2:AA:1389:G:H2'	2:AA:1390:U:C6	2.44	0.52
2:AA:1434:A:C5	2:AA:1560:G:C2	2.97	0.52
2:AA:1469:A:C6	2:AA:1470:G:N1	2.78	0.52
2:AA:1494:A:N6	2:AA:1495:A:C2	2.78	0.52
2:AA:1655:A:C2'	2:AA:1656:C:C6	2.88	0.52
2:AA:1743:G:C3'	2:AA:1746:G:H5'	2.37	0.52
2:AA:2043:C:C2	2:AA:2044:C:C5	2.98	0.52
2:AA:2054:A:N1	2:AA:2615:U:C4	2.73	0.52
2:AA:2137:C:H5''	2:AA:2138:C:H5	1.75	0.52
2:AA:2224:G:O2'	2:AA:2225:A:C5'	2.57	0.52
2:AA:2236:C:H2'	2:AA:2237:G:O4'	2.09	0.52
2:AA:2298:A:H2'	2:AA:2299:G:O4'	2.10	0.52
2:AA:2522:U:H5'	2:AA:2523:G:OP2	2.10	0.52
2:AA:2581:G:N1	2:AA:2610:C:C1'	2.57	0.52
2:AA:2690:C:H2'	2:AA:2691:C:OP2	2.09	0.52
2:AA:2699:C:N3	2:AA:2708:G:C2	2.77	0.52
2:AA:2707:G:H2'	2:AA:2708:G:O5'	2.09	0.52
2:AA:2746:U:C4'	8:AH:138:GLN:HA	2.37	0.52
2:AA:2813:A:H2'	2:AA:2814:C:C6	2.44	0.52
3:AC:46:LYS:HB3	3:AC:210:ARG:CD	2.39	0.52
3:AC:74:VAL:HA	3:AC:112:ALA:O	2.10	0.52
4:AD:92:LEU:CD1	4:AD:92:LEU:N	2.73	0.52
4:AD:94:ASN:OD1	4:AD:100:LYS:CD	2.57	0.52
6:AF:34:ALA:CB	6:AF:110:ALA:HB1	2.28	0.52
6:AF:55:ARG:HA	6:AF:79:ARG:CZ	2.38	0.52
7:AG:56:ARG:HD3	35:BC:56:C:C2'	2.38	0.52
8:AH:72:ALA:O	8:AH:75:VAL:CB	2.57	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:82:TYR:CD1	8:AH:137:LYS:N	2.78	0.52
8:AH:98:GLN:O	8:AH:99:GLY:C	2.53	0.52
10:AK:125:GLY:CA	10:AK:145:VAL:O	2.58	0.52
11:AL:102:ARG:O	11:AL:103:LYS:C	2.52	0.52
12:AM:18:ILE:HG21	12:AM:21:ARG:NH1	2.25	0.52
12:AM:54:VAL:HG11	12:AM:138:THR:HG21	1.92	0.52
12:AM:74:ARG:O	12:AM:75:PRO:C	2.52	0.52
15:AP:65:ARG:NH2	15:AP:85:ILE:O	2.43	0.52
16:AQ:119:GLN:C	16:AQ:121:GLY:N	2.65	0.52
18:AS:4:LYS:CE	18:AS:106:ILE:HG12	2.39	0.52
18:AS:18:ARG:HE	18:AS:76:VAL:HG12	1.73	0.52
18:AS:32:ALA:HA	18:AS:35:ILE:CD1	2.40	0.52
19:AT:53:ASN:C	19:AT:54:THR:HG23	2.35	0.52
20:AU:66:ASP:HB2	20:AU:71:VAL:O	2.09	0.52
21:AV:19:ILE:HD11	21:AV:79:ILE:HG12	1.92	0.52
22:AW:20:LEU:O	22:AW:23:LEU:N	2.43	0.52
25:A1:69:ALA:CB	25:A1:76:TYR:CE2	2.92	0.52
27:A3:45:PHE:HE2	27:A3:80:SER:HB2	1.75	0.52
29:A5:6:VAL:HG13	29:A5:7:PRO:CD	2.40	0.52
29:A5:13:LYS:O	29:A5:16:ARG:HB2	2.10	0.52
30:A6:28:ARG:HD3	30:A6:30:ASN:HD22	1.73	0.52
34:BA:29:G:H4'	34:BA:295:C:O3'	2.09	0.52
34:BA:52:G:H1	34:BA:359:U:H3	1.57	0.52
34:BA:57:G:H2'	34:BA:58:C:C6	2.44	0.52
34:BA:65:U:C5	34:BA:381:C:N4	2.78	0.52
34:BA:80:G:N2	34:BA:88:A:H61	2.08	0.52
34:BA:130:A:OP2	34:BA:190(E):U:C4	2.63	0.52
34:BA:290:C:N3	34:BA:291:C:C6	2.78	0.52
34:BA:294:U:O2	34:BA:295:C:C5	2.63	0.52
34:BA:430:A:C4'	39:BG:7:PRO:HB3	2.36	0.52
34:BA:509:A:OP2	34:BA:509:A:O3'	2.27	0.52
34:BA:527:G:C6	34:BA:528:C:C4	2.98	0.52
34:BA:632:A:H2'	34:BA:633:G:O5'	2.10	0.52
34:BA:877:C:OP1	43:BK:88:LYS:HE3	2.10	0.52
34:BA:1065:U:C5	34:BA:1190:G:N3	2.77	0.52
34:BA:1071:C:C4	34:BA:1084:G:N2	2.77	0.52
34:BA:1091:U:O2	34:BA:1095:U:C4	2.62	0.52
34:BA:1231:G:H2'	34:BA:1232:U:O4'	2.09	0.52
34:BA:1248:A:C2	34:BA:1249:C:N3	2.78	0.52
34:BA:1267:C:H6	34:BA:1267:C:H3'	1.74	0.52
34:BA:1269:A:H2'	34:BA:1270:C:C5'	2.40	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1364:U:O2'	34:BA:1365:G:OP1	2.25	0.52
34:BA:1370:G:H8	34:BA:1370:G:OP2	1.93	0.52
34:BA:1518:A:N1	34:BA:1519:A:N1	2.58	0.52
35:BC:17:U:C5'	35:BC:19:G:OP2	2.57	0.52
35:BC:33:U:H6	35:BC:33:U:O5'	1.93	0.52
37:BE:182:ILE:HG23	37:BE:183:PRO:HD2	1.92	0.52
37:BE:193:ASP:OD2	37:BE:196:LEU:HG	2.09	0.52
37:BE:213:LEU:CD2	37:BE:213:LEU:C	2.83	0.52
38:BF:179:ARG:O	38:BF:180:ALA:C	2.51	0.52
40:BH:131:ILE:O	40:BH:132:ALA:C	2.52	0.52
42:BJ:38:LEU:HD12	42:BJ:41:ARG:HB2	1.91	0.52
42:BJ:151:TYR:O	42:BJ:152:ALA:C	2.52	0.52
43:BK:24:THR:H	43:BK:60:ARG:CD	2.22	0.52
43:BK:100:ILE:HG22	43:BK:101:PRO:CD	2.35	0.52
44:BL:93:ARG:NH2	44:BL:102:LEU:HD13	2.22	0.52
46:BN:12:ARG:HD3	46:BN:75:TYR:CD2	2.45	0.52
49:BQ:14:PRO:HG3	49:BQ:17:LYS:HA	1.92	0.52
49:BQ:40:CYS:O	49:BQ:42:ILE:N	2.43	0.52
50:BR:64:ARG:O	50:BR:65:ARG:C	2.51	0.52
50:BR:70:LEU:O	50:BR:71:GLN:C	2.51	0.52
50:BR:76:GLU:C	50:BR:78:TYR:N	2.67	0.52
51:BS:67:THR:CB	51:BS:70:ALA:HB2	2.32	0.52
52:BT:40:LYS:HB3	52:BT:42:TYR:HE1	1.74	0.52
52:BT:95:TYR:C	52:BT:97:SER:N	2.67	0.52
54:BV:19:VAL:CG2	54:BV:43:GLU:O	2.52	0.52
1:AB:21:G:C6	1:AB:22:U:N3	2.78	0.52
1:AB:35:U:H3'	1:AB:35:U:H6	1.75	0.52
1:AB:75:G:C4	21:AV:22:VAL:HG21	2.44	0.52
2:AA:52:A:O2'	2:AA:53:A:H5'	2.10	0.52
2:AA:283:A:C8	2:AA:284:U:H6	2.27	0.52
2:AA:285:C:H1'	2:AA:356:G:N2	2.25	0.52
2:AA:350:U:H2'	2:AA:351:G:OP1	2.09	0.52
2:AA:459:U:OP1	31:A7:40:HIS:HA	2.10	0.52
2:AA:461:C:H42	2:AA:469:G:H21	1.53	0.52
2:AA:463:G:N2	2:AA:467:G:C4	2.78	0.52
2:AA:476:G:H22	2:AA:478:A:H2'	1.75	0.52
2:AA:625:G:C3'	2:AA:626:U:H5'	2.38	0.52
2:AA:684:G:N2	2:AA:794:G:N3	2.56	0.52
2:AA:693:C:C4	2:AA:694:U:C4	2.98	0.52
2:AA:707:G:N2	2:AA:724:U:O2	2.40	0.52
2:AA:729:G:OP1	4:AD:206:LYS:HB2	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:768:G:C4	2:AA:769:G:C8	2.97	0.52
2:AA:918:A:H5'	2:AA:919:G:H8	1.73	0.52
2:AA:941:A:N1	2:AA:942:G:N3	2.58	0.52
2:AA:969:U:O2'	2:AA:970:C:C5'	2.58	0.52
2:AA:1020:A:C4'	12:AM:49:ARG:HH22	2.22	0.52
2:AA:1097:U:H2'	2:AA:1098:A:C5'	2.40	0.52
2:AA:1152:C:H5''	25:A1:80:ILE:HB	1.90	0.52
2:AA:1193:G:N2	2:AA:1194:A:H1'	2.24	0.52
2:AA:1232:G:C2	2:AA:1233:C:C6	2.98	0.52
2:AA:1348:G:N2	2:AA:1599:C:C2	2.78	0.52
2:AA:1375:C:H2'	2:AA:1376:C:C6	2.41	0.52
2:AA:1424:G:H2'	2:AA:1425:G:H5'	1.91	0.52
2:AA:1551:C:N4	2:AA:1552:G:O6	2.42	0.52
2:AA:1567:A:N1	4:AD:82:TYR:O	2.43	0.52
2:AA:1674:G:O2'	2:AA:1677:A:N6	2.42	0.52
2:AA:1707:G:N2	2:AA:1751:C:N3	2.49	0.52
2:AA:1726:G:H2'	2:AA:1726:G:N3	2.23	0.52
2:AA:1743:G:C5	2:AA:1746:G:N7	2.78	0.52
2:AA:1757:U:O4	2:AA:1762:A:C2	2.63	0.52
2:AA:1796:U:H2'	2:AA:1797:C:H5	1.64	0.52
2:AA:1834:U:O3'	2:AA:1835:G:C8	2.63	0.52
2:AA:1846:G:O2'	2:AA:1847:A:H5'	2.10	0.52
2:AA:1904:G:N2	2:AA:1905:C:C1'	2.73	0.52
2:AA:1934:C:H2'	2:AA:1935:G:O5'	2.10	0.52
2:AA:1936:A:C6	2:AA:1945:G:C4	2.97	0.52
2:AA:1944:U:H1'	2:AA:1955:U:C1'	2.39	0.52
2:AA:1964:G:O2'	2:AA:1967:C:OP1	2.28	0.52
2:AA:2093:G:C4	2:AA:2225:A:N6	2.77	0.52
2:AA:2243:U:O2'	2:AA:2244:U:C5'	2.49	0.52
2:AA:2333:A:C1'	2:AA:2335:A:C4	2.92	0.52
2:AA:2430:A:H2'	2:AA:2431:U:C5'	2.39	0.52
2:AA:2682:U:C4	2:AA:2683:C:C4	2.98	0.52
2:AA:2686:G:C4	2:AA:2687:U:C6	2.98	0.52
2:AA:2698:U:C2	2:AA:2699:C:H5	2.26	0.52
2:AA:2712:U:O2'	2:AA:712(A):A:OP1	2.26	0.52
2:AA:2817:G:N2	2:AA:2830:G:C4	2.78	0.52
2:AA:2822:G:OP1	5:AE:258:TYR:CE2	2.62	0.52
2:AA:2825:C:O5'	2:AA:2825:C:C6	2.63	0.52
4:AD:112:GLY:O	4:AD:113:MET:O	2.28	0.52
5:AE:222:ARG:C	5:AE:223:LYS:O	2.53	0.52
5:AE:268:LEU:N	5:AE:297:LYS:HE2	2.24	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:269:ILE:CA	5:AE:297:LYS:HZ2	2.20	0.52
6:AF:196:THR:CB	6:AF:200:PRO:HA	2.40	0.52
6:AF:215:ALA:CB	6:AF:239:ALA:HA	2.40	0.52
6:AF:241:ALA:O	6:AF:242:GLU:C	2.52	0.52
7:AG:151:ILE:HG21	7:AG:156:ARG:NH1	2.25	0.52
8:AH:14:VAL:O	8:AH:14:VAL:HG12	2.09	0.52
8:AH:37:HIS:CE1	8:AH:40:MET:HE3	2.45	0.52
8:AH:95:ALA:O	8:AH:127:GLN:O	2.28	0.52
10:AK:7:LYS:O	10:AK:12:LYS:C	2.52	0.52
10:AK:31:PHE:CE2	10:AK:37:ILE:N	2.78	0.52
10:AK:105:GLN:N	10:AK:105:GLN:CD	2.68	0.52
11:AL:130:GLY:O	11:AL:133:LYS:HB2	2.10	0.52
12:AM:102:ARG:HB3	12:AM:104:TYR:HH	1.72	0.52
13:AN:7:ARG:HE	13:AN:44:LYS:HD3	1.73	0.52
13:AN:11:ALA:O	13:AN:98:ILE:C	2.53	0.52
13:AN:21:VAL:HA	13:AN:41:ALA:CB	2.39	0.52
14:AO:114:VAL:HG21	14:AO:133:VAL:CA	2.40	0.52
14:AO:132:LYS:N	14:AO:132:LYS:CD	2.72	0.52
15:AP:26:LYS:O	15:AP:27:GLY:O	2.27	0.52
15:AP:60:ALA:HB3	15:AP:61:LEU:HD23	1.92	0.52
15:AP:121:ASP:C	15:AP:122:PHE:CD2	2.88	0.52
16:AQ:22:GLN:O	16:AQ:23:ARG:C	2.51	0.52
16:AQ:35:VAL:HG12	16:AQ:37:ARG:HD3	1.92	0.52
19:AT:14:ALA:HB1	19:AT:18:MET:CE	2.34	0.52
19:AT:18:MET:HB3	19:AT:24:LEU:HB3	1.92	0.52
21:AV:100:THR:CG2	21:AV:137:ASP:CG	2.83	0.52
21:AV:145:ASP:C	21:AV:146:HIS:CD2	2.88	0.52
21:AV:152:ILE:HG22	21:AV:153:LYS:N	2.23	0.52
23:AX:25:ALA:O	23:AX:26:LEU:C	2.53	0.52
24:A0:113:LEU:CD1	24:A0:114:VAL:N	2.72	0.52
25:A1:41:ASN:CG	25:A1:42:ALA:N	2.68	0.52
26:A2:40:VAL:HG12	26:A2:55:THR:HG23	1.90	0.52
32:A8:60:LEU:HD22	32:A8:64:ARG:HB2	1.91	0.52
34:BA:106:C:C2'	34:BA:107:G:O5'	2.57	0.52
34:BA:119:A:C8	34:BA:240:C:N4	2.78	0.52
34:BA:160:A:H2'	34:BA:161:A:O4'	2.09	0.52
34:BA:184:G:O2'	34:BA:185:A:H5'	2.10	0.52
34:BA:198:G:N3	34:BA:199:G:C8	2.78	0.52
34:BA:246:A:H62	34:BA:281:G:H21	1.56	0.52
34:BA:269:C:O2'	34:BA:270:A:C5'	2.55	0.52
34:BA:450:G:N2	34:BA:483:C:N3	2.57	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:564:C:OP1	47:BO:15:ARG:CZ	2.58	0.52
34:BA:579:G:N1	34:BA:763:G:C6	2.78	0.52
34:BA:632:A:H2'	34:BA:633:G:O4'	2.10	0.52
34:BA:782:A:N1	34:BA:801:U:C1'	2.69	0.52
34:BA:792:A:C2	34:BA:794:A:N1	2.78	0.52
34:BA:898:G:H21	34:BA:900:A:H3'	1.75	0.52
34:BA:901:A:O5'	34:BA:901:A:H8	1.91	0.52
34:BA:945:G:C2	34:BA:946:A:C8	2.98	0.52
34:BA:989:C:H4'	34:BA:1016:A:H2	1.75	0.52
34:BA:1115:C:N4	34:BA:1185:G:H1	2.06	0.52
34:BA:1228:C:O2	34:BA:1228:C:C2'	2.58	0.52
34:BA:1239:A:C3'	34:BA:1298:C:H42	2.23	0.52
34:BA:1412:C:C4	34:BA:1489:G:N1	2.78	0.52
34:BA:1451:A:H8	34:BA:1451:A:O5'	1.93	0.52
34:BA:1471:G:H2'	34:BA:1472:U:H6	1.73	0.52
34:BA:1480:G:C2'	34:BA:1481:U:O5'	2.55	0.52
35:BB:34:G:C4	36:B1:66:G:O6	2.62	0.52
35:BB:53:G:C5	35:BB:54:U:O4	2.62	0.52
35:BC:18:G:C2	35:BC:58:A:C5	2.98	0.52
37:BE:109:SER:O	37:BE:112:VAL:HB	2.10	0.52
37:BE:238:LEU:HG	37:BE:238:LEU:O	2.10	0.52
38:BF:115:LEU:O	38:BF:118:GLN:N	2.42	0.52
38:BF:162:GLN:OE1	38:BF:163:ALA:N	2.43	0.52
39:BG:148:VAL:HG12	39:BG:152:SER:CB	2.40	0.52
40:BH:37:ARG:NH1	40:BH:112:LEU:HD22	2.25	0.52
40:BH:57:LYS:HG3	40:BH:61:TYR:HE2	1.75	0.52
40:BH:143:ARG:HB3	40:BH:147:ASP:HB3	1.92	0.52
40:BH:145:LYS:HA	40:BH:148:VAL:CG2	2.39	0.52
40:BH:147:ASP:O	40:BH:150:ARG:N	2.43	0.52
41:BI:12:PRO:HG2	41:BI:13:ASN:ND2	2.25	0.52
42:BJ:87:VAL:HB	42:BJ:156:TRP:CE3	2.45	0.52
43:BK:21:LYS:O	43:BK:63:LEU:HD11	2.09	0.52
43:BK:109:ILE:HD13	43:BK:137:VAL:HB	1.92	0.52
44:BL:32:ASP:CA	44:BL:35:GLU:HB2	2.38	0.52
45:BM:62:HIS:ND1	45:BM:62:HIS:N	2.57	0.52
47:BO:70:ILE:CG2	47:BO:77:LEU:HD11	2.38	0.52
48:BP:88:ARG:O	48:BP:91:ARG:N	2.43	0.52
53:BU:45:SER:C	53:BU:46:GLU:CD	2.77	0.52
54:BV:36:ARG:HH21	54:BV:72:GLY:CA	2.23	0.52
54:BV:52:TYR:OH	54:BV:55:LYS:HA	2.10	0.52
2:AA:134:C:C4	2:AA:135:G:C8	2.98	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:135:G:C4	2:AA:145:G:C6	2.98	0.52
2:AA:139:G:C3'	2:AA:141(A):C:O2	2.51	0.52
2:AA:145:G:C2	2:AA:146:G:C4	2.98	0.52
2:AA:237:C:H2'	2:AA:238:C:C6	2.40	0.52
2:AA:240:G:C6	2:AA:241:A:C6	2.98	0.52
2:AA:273(B):C:C4	2:AA:363(D):G:O6	2.63	0.52
2:AA:382:G:C2'	2:AA:383:U:H5'	2.40	0.52
2:AA:459:U:OP1	31:A7:40:HIS:CA	2.58	0.52
2:AA:500:G:O2'	2:AA:502:A:OP2	2.28	0.52
2:AA:610:C:H2'	2:AA:611:C:C5	2.44	0.52
2:AA:661:C:O2	2:AA:662:G:C8	2.63	0.52
2:AA:763:G:N7	2:AA:765:G:C8	2.77	0.52
2:AA:818:G:O2'	2:AA:838:C:H4'	2.10	0.52
2:AA:899:A:N1	2:AA:900:A:C4	2.78	0.52
2:AA:996:A:C6	2:AA:1160:G:N1	2.78	0.52
2:AA:1032:A:O3'	33:A9:16:VAL:HG11	2.10	0.52
2:AA:1057:A:C2	2:AA:1058:G:C5	2.97	0.52
2:AA:1083:U:H5'	9:AI:40:ALA:CB	2.35	0.52
2:AA:1137:G:P	12:AM:60:ARG:HH22	2.29	0.52
2:AA:1298:C:H5'	2:AA:1302:A:N6	2.25	0.52
2:AA:1343:G:H1'	2:AA:1597:A:C2	2.44	0.52
2:AA:1441:G:H2'	2:AA:1442:G:C5'	2.40	0.52
2:AA:1509:C:H5'	2:AA:1509:C:H6	1.73	0.52
2:AA:1518:C:C3'	2:AA:1519:G:H4'	2.40	0.52
2:AA:1522:G:C2	2:AA:1523:U:C6	2.98	0.52
2:AA:1565:C:N3	2:AA:1567:A:C1'	2.73	0.52
2:AA:1638:C:H2'	2:AA:1639:U:O4'	2.09	0.52
2:AA:1694:C:C2'	2:AA:1695:G:OP2	2.58	0.52
2:AA:1771:C:N3	2:AA:1772:G:C5	2.78	0.52
2:AA:1790:C:O2	2:AA:1790:C:H2'	2.10	0.52
2:AA:1826:G:P	4:AD:227:VAL:HG11	2.50	0.52
2:AA:1948:G:N1	2:AA:1949:G:C5	2.78	0.52
2:AA:1984:G:O2'	2:AA:1985:G:H5'	2.10	0.52
2:AA:1987:G:H2'	2:AA:1988:C:C6	2.45	0.52
2:AA:1993:U:H2'	2:AA:1993:U:O2	2.10	0.52
2:AA:2061:G:H2'	2:AA:2063:C:H41	1.75	0.52
2:AA:2206:C:H2'	2:AA:2207:C:H6	1.74	0.52
2:AA:2215:G:C2	2:AA:2216:G:C4	2.98	0.52
2:AA:2255:G:N2	2:AA:2256:G:H1'	2.24	0.52
2:AA:2421:G:OP2	30:A6:2:ALA:N	2.43	0.52
2:AA:2482:G:N7	2:AA:2483:C:H5	2.08	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2519:U:C2	2:AA:2542:A:C6	2.98	0.52
2:AA:2528:U:H1'	2:AA:2536:G:N2	2.25	0.52
2:AA:2552:U:C2	2:AA:2554:U:C5'	2.93	0.52
2:AA:2654:A:H1'	2:AA:2656:U:C5	2.45	0.52
2:AA:2654:A:O2'	2:AA:2655:G:H4'	2.09	0.52
2:AA:2720:U:O4	2:AA:2872:G:C5	2.63	0.52
2:AA:2746:U:C5	2:AA:2747:G:N7	2.78	0.52
2:AA:2792:G:C2	2:AA:2804:C:N3	2.77	0.52
3:AC:196:LEU:O	3:AC:199:HIS:N	2.43	0.52
4:AD:153:LEU:O	4:AD:154:VAL:C	2.53	0.52
4:AD:166:LYS:CG	4:AD:171:VAL:HG12	2.40	0.52
4:AD:168:GLY:C	4:AD:170:TYR:H	2.18	0.52
5:AE:45:LYS:HE2	5:AE:301:PRO:HB2	1.91	0.52
5:AE:269:ILE:HD12	5:AE:295:LEU:O	2.10	0.52
6:AF:11:ASN:ND2	6:AF:160:LEU:HD21	2.17	0.52
6:AF:210:ALA:O	6:AF:211:ASP:HB3	2.08	0.52
7:AG:22:VAL:HG23	7:AG:131:THR:OG1	2.10	0.52
9:AJ:99:ASP:O	9:AJ:101:VAL:N	2.41	0.52
10:AK:7:LYS:HB2	10:AK:14:LYS:HE2	1.91	0.52
10:AK:88:ARG:NE	10:AK:123:ALA:N	2.58	0.52
11:AL:93:LYS:HA	11:AL:96:ILE:HG13	1.92	0.52
11:AL:104:GLN:O	11:AL:108:ILE:HG13	2.09	0.52
12:AM:26:VAL:HG11	12:AM:83:ILE:HG21	1.92	0.52
12:AM:45:VAL:O	12:AM:132:LEU:CD1	2.52	0.52
12:AM:82:THR:O	12:AM:85:GLY:HA3	2.10	0.52
13:AN:47:THR:CB	13:AN:48:PRO:CD	2.83	0.52
13:AN:49:GLY:HA3	13:AN:53:LYS:CE	2.40	0.52
15:AP:22:GLY:C	15:AP:23:ILE:HG13	2.34	0.52
16:AQ:118:ILE:O	16:AQ:121:GLY:CA	2.58	0.52
17:AR:45:GLU:CB	17:AR:48:ASN:HD21	2.23	0.52
19:AT:23:LYS:HD3	19:AT:65:VAL:CG1	2.40	0.52
21:AV:86:VAL:HG11	21:AV:91:PRO:CG	2.36	0.52
21:AV:108:VAL:O	21:AV:109:GLN:HG3	2.10	0.52
21:AV:124:ALA:H	21:AV:159:THR:CB	2.23	0.52
21:AV:131:PRO:C	21:AV:133:GLU:N	2.67	0.52
23:AX:12:PRO:CG	23:AX:20:LYS:NZ	2.72	0.52
24:A0:107:ASP:OD2	24:A0:109:ALA:CB	2.58	0.52
25:A1:104:GLU:HA	25:A1:107:LYS:HG2	1.92	0.52
26:A2:6:GLN:HE22	26:A2:10:LYS:CA	2.22	0.52
26:A2:39:PHE:CE1	26:A2:42:GLY:CA	2.90	0.52
26:A2:46:VAL:O	26:A2:46:VAL:HG12	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:A6:40:TYR:HB2	30:A6:50:PHE:CD2	2.45	0.52
30:A6:50:PHE:CD1	30:A6:50:PHE:N	2.75	0.52
31:A7:12:ARG:O	31:A7:13:ALA:C	2.50	0.52
31:A7:25:LYS:NZ	31:A7:28:ARG:HH22	2.08	0.52
33:A9:24:LEU:CD1	33:A9:35:ARG:HG3	2.39	0.52
34:BA:68:G:C4'	34:BA:171:A:C1'	2.87	0.52
34:BA:118:U:H3	34:BA:289:G:C4'	2.16	0.52
34:BA:173:U:H5''	34:BA:197:A:C4'	2.40	0.52
34:BA:177:C:O2'	34:BA:178:C:H5'	2.10	0.52
34:BA:407:G:C5	34:BA:408:A:N7	2.78	0.52
34:BA:435:C:C2'	34:BA:436:C:H5'	2.40	0.52
34:BA:437:U:C2'	34:BA:438:G:C5'	2.80	0.52
34:BA:460:A:N6	34:BA:462:G:C2	2.78	0.52
34:BA:484:G:C8	34:BA:486:U:C2	2.98	0.52
34:BA:508:C:H4'	34:BA:509:A:O5'	2.10	0.52
34:BA:573:A:H3'	34:BA:573:A:P	2.50	0.52
34:BA:575:G:O2'	34:BA:576:G:C5'	2.58	0.52
34:BA:575:G:O2'	34:BA:576:G:P	2.67	0.52
34:BA:581:G:C2'	34:BA:582:U:OP2	2.58	0.52
34:BA:582:U:O4	34:BA:583:A:C6	2.63	0.52
34:BA:819:A:C4'	34:BA:820:U:OP2	2.58	0.52
34:BA:826:C:H1'	43:BK:15:ASN:HD21	1.68	0.52
34:BA:885:G:O2'	34:BA:915:A:C2	2.63	0.52
34:BA:891:U:C6	34:BA:892:A:N7	2.78	0.52
34:BA:1047:G:C2	34:BA:1048:G:C8	2.98	0.52
34:BA:1157:A:H1'	34:BA:1181:G:C2	2.45	0.52
34:BA:1196:U:C6	34:BA:1196:U:H3'	2.44	0.52
34:BA:1240:U:P	42:BJ:119:ARG:HH22	2.32	0.52
34:BA:1348:U:N3	34:BA:1349:A:C8	2.77	0.52
35:BB:34:G:C6	35:BB:35:A:N6	2.78	0.52
35:BB:37:G:H2'	35:BB:38:A:H5'	1.90	0.52
35:BB:49:C:N3	35:BB:50:U:C4	2.78	0.52
36:B1:64:C:OP2	36:B1:64:C:H6	1.93	0.52
37:BE:189:ASP:OD1	37:BE:205:ASP:CG	2.53	0.52
38:BF:193:TYR:N	38:BF:193:TYR:HD2	2.08	0.52
39:BG:148:VAL:CB	39:BG:153:ARG:HG2	2.39	0.52
40:BH:79:GLU:CD	40:BH:79:GLU:N	2.67	0.52
40:BH:96:PRO:O	40:BH:98:THR:N	2.42	0.52
40:BH:133:TYR:O	40:BH:136:MET:HB2	2.10	0.52
41:BI:56:PRO:HG2	41:BI:57:GLN:OE1	2.10	0.52
41:BI:77:ARG:N	41:BI:80:ARG:HE	2.08	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:78:ARG:N	42:BJ:156:TRP:HZ3	2.08	0.52
43:BK:122:ARG:O	43:BK:125:ARG:N	2.42	0.52
44:BL:4:TYR:N	44:BL:4:TYR:CD1	2.78	0.52
44:BL:48:GLU:O	44:BL:49:PRO:C	2.51	0.52
47:BO:38:THR:HG23	47:BO:39:VAL:CG2	2.36	0.52
47:BO:38:THR:HG22	47:BO:57:LYS:HB3	1.92	0.52
48:BP:48:LEU:CD2	48:BP:49:THR:O	2.58	0.52
51:BS:58:TYR:CD1	51:BS:59:TRP:HA	2.45	0.52
52:BT:29:HIS:HB3	52:BT:32:TYR:CA	2.40	0.52
53:BU:30:ASP:OD1	53:BU:32:ARG:HG3	2.10	0.52
54:BV:36:ARG:HH21	54:BV:72:GLY:C	2.17	0.52
1:AB:31:C:H2'	1:AB:32:C:C6	2.45	0.51
1:AB:35:U:O4	1:AB:36:C:N4	2.43	0.51
1:AB:44:G:H21	1:AB:48:A:C1'	2.23	0.51
1:AB:75:G:C2'	1:AB:76:G:H5'	2.39	0.51
1:AB:99:A:H2'	1:AB:100:G:H8	1.73	0.51
2:AA:30:G:OP1	25:A1:8:ILE:HG13	2.10	0.51
2:AA:77:C:H6	2:AA:77:C:OP2	1.93	0.51
2:AA:176:G:C2	2:AA:177:G:H1'	2.45	0.51
2:AA:242:G:C8	32:A8:3:LYS:O	2.63	0.51
2:AA:262:A:C5	2:AA:263:C:C5	2.98	0.51
2:AA:270(B):A:P	2:AA:270(B):A:O4'	2.68	0.51
2:AA:288:C:H5'	2:AA:288:C:C6	2.35	0.51
2:AA:300:A:C6	2:AA:334:C:H4'	2.45	0.51
2:AA:307:G:N2	2:AA:310:A:O5'	2.42	0.51
2:AA:311:A:N6	2:AA:329:G:H5''	2.25	0.51
2:AA:329:G:H8	2:AA:329:G:OP2	1.92	0.51
2:AA:526:A:C2	2:AA:2626:C:O4'	2.63	0.51
2:AA:576:U:O5'	2:AA:576:U:H6	1.93	0.51
2:AA:586:A:C5	2:AA:1254:A:C2	2.95	0.51
2:AA:589:C:N4	2:AA:668:G:N1	2.20	0.51
2:AA:627:A:H2	2:AA:638:G:H21	1.49	0.51
2:AA:700:G:C6	2:AA:733:G:N2	2.78	0.51
2:AA:721:C:N4	2:AA:722:A:H62	2.05	0.51
2:AA:742:G:H2'	2:AA:743:G:O5'	2.09	0.51
2:AA:783:A:O2'	2:AA:784:A:OP1	2.29	0.51
2:AA:861:A:C6	2:AA:917:A:C5	2.98	0.51
2:AA:1080:C:C4'	11:AL:126:LYS:HB3	2.38	0.51
2:AA:1210:A:H4'	2:AA:1211:U:O5'	2.10	0.51
2:AA:1216:G:N1	2:AA:1234:U:C6	2.78	0.51
2:AA:1310:G:H2'	2:AA:1311:G:H4'	1.91	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1334:G:C5	2:AA:1335:U:C5	2.98	0.51
2:AA:1350:C:C2'	2:AA:1351:C:O5'	2.58	0.51
2:AA:1389:G:C5	2:AA:1390:U:C4	2.98	0.51
2:AA:1392:A:C6	2:AA:1393:A:N6	2.78	0.51
2:AA:1464:C:C2	2:AA:1465:G:C8	2.97	0.51
2:AA:1465:G:H21	2:AA:1466:G:H1'	1.75	0.51
2:AA:1495:A:C8	2:AA:1495:A:OP2	2.63	0.51
2:AA:1568:G:P	4:AD:60:GLN:HA	2.49	0.51
2:AA:1582:C:H5''	2:AA:1583:A:OP2	2.10	0.51
2:AA:1672:C:O2'	2:AA:1673:U:OP1	2.28	0.51
2:AA:1794:U:H5'	2:AA:1900:A:C6	2.45	0.51
2:AA:1827:C:OP1	2:AA:1971:A:O2'	2.28	0.51
2:AA:1919:A:H2'	2:AA:1920:C:H6	1.75	0.51
2:AA:1954:G:O2'	2:AA:1955:U:C5'	2.58	0.51
2:AA:1995:U:C5	2:AA:1996:C:N4	2.78	0.51
2:AA:2000:G:C5	2:AA:2001:A:N7	2.77	0.51
2:AA:2043:C:N3	2:AA:2044:C:C5	2.78	0.51
2:AA:2078:C:H5'	2:AA:2434:A:H4'	1.92	0.51
2:AA:2225:A:H5''	2:AA:2226:C:C4'	2.39	0.51
2:AA:2294:C:H2'	2:AA:2295:C:C5'	2.40	0.51
2:AA:2313:C:H4'	7:AG:72:LYS:CB	2.40	0.51
2:AA:2349:G:H3'	2:AA:2350:C:H5''	1.92	0.51
2:AA:2416:C:N3	2:AA:2417:C:C5	2.78	0.51
2:AA:2485:G:C2'	2:AA:2486:G:C5'	2.88	0.51
2:AA:2523:G:O2'	2:AA:2524:G:H5'	2.11	0.51
2:AA:2631:G:H5''	2:AA:2892:A:OP1	2.09	0.51
2:AA:2825:C:N4	2:AA:2826:A:N7	2.57	0.51
2:AA:2884:U:C6	2:AA:2885:C:C6	2.99	0.51
3:AC:131:LEU:HA	3:AC:136:LEU:HD12	1.93	0.51
3:AC:133:PRO:O	3:AC:172:HIS:NE2	2.43	0.51
3:AC:192:PHE:O	3:AC:193:ILE:C	2.52	0.51
4:AD:179:GLU:C	4:AD:180:VAL:CG2	2.82	0.51
5:AE:189:MET:SD	5:AE:311:PHE:CZ	3.03	0.51
5:AE:218:GLY:O	5:AE:219:VAL:CG2	2.58	0.51
6:AF:87:ARG:O	6:AF:88:SER:CB	2.58	0.51
7:AG:12:GLU:O	7:AG:12:GLU:OE1	2.28	0.51
7:AG:140:ARG:HH11	7:AG:144:ARG:HH22	1.59	0.51
7:AG:142:ALA:HB2	7:AG:151:ILE:CG1	2.41	0.51
8:AH:55:SER:HB2	8:AH:60:HIS:HB2	1.90	0.51
9:AI:26:GLU:O	9:AI:29:PHE:N	2.44	0.51
9:AI:26:GLU:C	9:AI:28:LYS:N	2.68	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:50:GLY:O	9:AJ:53:GLN:HB2	2.10	0.51
10:AK:98:ILE:HG22	10:AK:99:ALA:N	2.25	0.51
11:AL:116:LEU:O	11:AL:117:ASN:C	2.53	0.51
12:AM:105:LEU:HG	12:AM:106:GLY:H	1.74	0.51
13:AN:5:GLU:CB	13:AN:20:LEU:HG	2.40	0.51
13:AN:15:GLY:HA3	13:AN:52:VAL:CG2	2.40	0.51
16:AQ:86:LEU:HD23	16:AQ:121:GLY:HA2	1.91	0.51
16:AQ:117:ALA:O	16:AQ:118:ILE:C	2.51	0.51
19:AT:50:GLU:HB3	19:AT:68:LEU:O	2.10	0.51
21:AV:19:ILE:CD1	21:AV:36:ARG:HG2	2.40	0.51
21:AV:125:PRO:CB	21:AV:157:GLY:HA3	2.40	0.51
24:A0:100:LEU:CD2	24:A0:113:LEU:N	2.73	0.51
25:A1:10:ARG:HA	25:A1:13:ARG:HH12	1.75	0.51
25:A1:98:ILE:O	25:A1:100:ALA:N	2.43	0.51
26:A2:17:GLY:O	26:A2:18:ASP:C	2.53	0.51
28:A4:61:LYS:O	28:A4:63:PHE:N	2.43	0.51
30:A6:21:TYR:OH	30:A6:43:VAL:CA	2.59	0.51
33:A9:30:VAL:C	33:A9:32:HIS:H	2.18	0.51
34:BA:49:U:N1	34:BA:364:A:N6	2.58	0.51
34:BA:52:G:H2'	34:BA:53:A:O4'	2.10	0.51
34:BA:192:U:H4'	55:BW:57:ARG:HH12	1.76	0.51
34:BA:292:G:C6	34:BA:308:C:N4	2.75	0.51
34:BA:294:U:H2'	34:BA:295:C:C5	2.45	0.51
34:BA:318:G:H1'	34:BA:1468:A:O2'	2.10	0.51
34:BA:330:C:C2'	34:BA:331:G:O5'	2.58	0.51
34:BA:383:A:O5'	34:BA:383:A:H8	1.92	0.51
34:BA:528:C:H41	47:BO:49:ASN:ND2	2.07	0.51
34:BA:632:A:H2'	34:BA:633:G:H8	1.75	0.51
34:BA:672:U:O2	34:BA:672:U:C2'	2.55	0.51
34:BA:735:C:C2'	34:BA:736:C:O5'	2.57	0.51
34:BA:748:C:O2'	34:BA:749:C:C6	2.63	0.51
34:BA:761:G:H4'	52:BT:103:GLY:H	1.67	0.51
34:BA:772:U:O2'	34:BA:773:G:O5'	2.27	0.51
34:BA:1021:G:H2'	34:BA:1022:G:O4'	2.10	0.51
34:BA:1182:G:HO2'	34:BA:1183:A:P	2.33	0.51
34:BA:1440:C:C2	34:BA:1441:G:C1'	2.93	0.51
34:BA:1508:G:O2'	34:BA:1509:C:C5'	2.58	0.51
34:BA:1516:G:N2	34:BA:1518:A:P	2.83	0.51
35:BB:14:A:C2	35:BB:22:G:C2	2.98	0.51
35:BB:35:A:N7	36:B1:65:U:N3	2.53	0.51
35:BB:36:A:H62	36:B1:65:U:H3	1.51	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:21:A:C6	35:BC:48:C:C5	2.98	0.51
38:BF:11:ARG:C	38:BF:13:GLY:H	2.18	0.51
38:BF:122:GLU:O	38:BF:125:GLU:N	2.43	0.51
38:BF:170:GLN:HG3	38:BF:170:GLN:O	2.08	0.51
39:BG:13:ARG:HH12	39:BG:38:TYR:HE1	1.54	0.51
39:BG:124:GLY:O	39:BG:132:ARG:CD	2.53	0.51
39:BG:187:ARG:O	39:BG:188:LEU:C	2.53	0.51
42:BJ:107:ALA:CB	42:BJ:123:GLU:OE1	2.52	0.51
42:BJ:111:ARG:NH2	42:BJ:122:HIS:CB	2.73	0.51
43:BK:9:MET:C	43:BK:13:ILE:CD1	2.83	0.51
44:BL:28:VAL:C	44:BL:30:GLY:N	2.67	0.51
46:BN:12:ARG:HD3	46:BN:75:TYR:HD2	1.75	0.51
48:BP:58:GLU:O	48:BP:61:GLU:HB2	2.10	0.51
49:BQ:24:CYS:SG	49:BQ:27:CYS:C	2.93	0.51
52:BT:9:VAL:HG11	52:BT:84:LEU:CD1	2.40	0.51
53:BU:40:LEU:HA	53:BU:43:PHE:CD1	2.44	0.51
53:BU:47:THR:OG1	53:BU:85:LEU:HB2	2.10	0.51
55:BW:65:LYS:O	55:BW:66:ALA:C	2.51	0.51
56:BX:12:LYS:HZ2	56:BX:19:GLY:H	1.58	0.51
1:AB:23:G:H2'	1:AB:24:G:C8	2.45	0.51
2:AA:10:G:O2'	2:AA:11:G:O5'	2.26	0.51
2:AA:92:G:H2'	2:AA:93:C:C6	2.41	0.51
2:AA:120:U:O2	2:AA:120:U:C2'	2.53	0.51
2:AA:153:C:N4	2:AA:173:G:H1	2.08	0.51
2:AA:221:A:C2'	2:AA:222:A:OP2	2.58	0.51
2:AA:239:U:H2'	2:AA:240:G:C8	2.45	0.51
2:AA:265:A:O2'	2:AA:266:G:OP2	2.28	0.51
2:AA:273(B):C:C2	2:AA:363(D):G:C6	2.98	0.51
2:AA:302:C:H42	2:AA:315:G:H1	0.64	0.51
2:AA:307:G:N2	2:AA:310:A:C8	2.78	0.51
2:AA:332:A:H4'	2:AA:333:G:OP1	2.10	0.51
2:AA:412:A:N3	2:AA:413:C:H1'	2.24	0.51
2:AA:465:G:N2	2:AA:683:C:C2'	2.72	0.51
2:AA:486:C:N3	2:AA:495:G:C6	2.79	0.51
2:AA:729:G:C6	4:AD:206:LYS:O	2.64	0.51
2:AA:749:C:H3'	2:AA:749:C:C6	2.41	0.51
2:AA:754:C:C2'	2:AA:755:C:C5'	2.88	0.51
2:AA:831:G:C2'	2:AA:832:G:H5'	2.40	0.51
2:AA:848:G:H3'	2:AA:848:G:H8	1.71	0.51
2:AA:856:C:OP1	27:A3:57:HIS:CE1	2.58	0.51
2:AA:923:C:O4'	27:A3:26:PHE:HD2	1.90	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:957:A:C2'	2:AA:958:U:OP1	2.58	0.51
2:AA:1029:A:O2'	2:AA:1030:G:C5'	2.56	0.51
2:AA:1087:G:C4	2:AA:1103:A:C2	2.98	0.51
2:AA:1136:G:H21	2:AA:1137:G:H1'	1.75	0.51
2:AA:1186:G:H3'	2:AA:1187:G:C8	2.45	0.51
2:AA:1203:G:C8	2:AA:1206:G:N7	2.78	0.51
2:AA:1221:C:C2	2:AA:1229:G:C2	2.98	0.51
2:AA:1249:U:H5''	25:A1:4:ALA:CB	2.39	0.51
2:AA:1279:G:H2'	2:AA:1280:G:C8	2.45	0.51
2:AA:1283:G:H21	2:AA:1285:G:H2'	1.73	0.51
2:AA:1294:U:HO2'	24:A0:26:LYS:HD2	1.74	0.51
2:AA:1441:G:O2'	2:AA:1442:G:H5'	2.09	0.51
2:AA:1510:A:H3'	2:AA:1511:A:C5	2.44	0.51
2:AA:1511:A:H2'	2:AA:1512:G:H5''	1.91	0.51
2:AA:1520:U:O5'	2:AA:1520:U:C6	2.57	0.51
2:AA:1526:G:H22	2:AA:1546:C:H42	1.56	0.51
2:AA:1717:G:N7	2:AA:1743:G:C6	2.78	0.51
2:AA:1805:U:C4	2:AA:1813:G:C2	2.98	0.51
2:AA:1829:A:N3	2:AA:1829:A:H2'	2.26	0.51
2:AA:1869:G:N3	2:AA:1878:G:C6	2.79	0.51
2:AA:1904:G:H2'	2:AA:1905:C:O5'	2.10	0.51
2:AA:1918:A:OP2	2:AA:1918:A:N9	2.44	0.51
2:AA:1973:G:C4	2:AA:1974:C:C5	2.98	0.51
2:AA:2027:G:H1'	2:AA:2037:G:H21	1.72	0.51
2:AA:2052:G:H21	5:AE:245:ARG:CG	2.23	0.51
2:AA:2174:C:H4'	3:AC:218:MET:HG3	1.92	0.51
2:AA:2208:U:C2	2:AA:2217:G:C2	2.97	0.51
2:AA:2215:G:O2'	2:AA:2216:G:O4'	2.20	0.51
2:AA:2230:G:C4	2:AA:2231:C:C5	2.97	0.51
2:AA:2246:G:N9	2:AA:2426:A:C2	2.78	0.51
2:AA:2268:A:C5'	2:AA:2269:A:OP2	2.58	0.51
2:AA:2278:A:C2	2:AA:2279:G:C4	2.98	0.51
2:AA:2331:G:C2'	2:AA:2332:U:O4'	2.58	0.51
2:AA:2335:A:N7	2:AA:2337:G:C6	2.78	0.51
2:AA:2356:C:H2'	2:AA:2357:U:C5'	2.40	0.51
2:AA:2391:G:N2	2:AA:2424:C:H2'	2.25	0.51
2:AA:2586:C:H3'	2:AA:2586:C:C6	2.46	0.51
2:AA:2653:U:H5''	2:AA:2654:A:OP2	2.11	0.51
2:AA:2655:G:N3	2:AA:2664:G:O6	2.43	0.51
2:AA:2693:A:N1	2:AA:2717:G:C6	2.78	0.51
2:AA:2740:A:N6	2:AA:2741:A:N6	2.58	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2741:A:C2'	2:AA:2742:C:H5'	2.40	0.51
5:AE:206:LYS:O	5:AE:257:GLY:HA2	2.10	0.51
6:AF:33:LYS:O	6:AF:36:ARG:HG2	2.10	0.51
6:AF:94:THR:C	6:AF:98:ARG:HH21	2.18	0.51
8:AH:161:ILE:C	8:AH:162:ARG:CG	2.83	0.51
9:AI:50:GLY:O	9:AI:53:GLN:HB2	2.10	0.51
9:AJ:68:GLN:O	9:AJ:69:ASN:CG	2.53	0.51
10:AK:28:ASN:O	10:AK:29:PHE:C	2.51	0.51
10:AK:40:THR:HB	10:AK:43:ASN:H	1.75	0.51
10:AK:88:ARG:HH22	10:AK:121:ILE:HG23	1.75	0.51
11:AL:15:ALA:HA	11:AL:46:THR:HB	1.92	0.51
11:AL:100:VAL:CG1	11:AL:101:THR:N	2.69	0.51
11:AL:107:GLU:O	11:AL:108:ILE:C	2.53	0.51
12:AM:84:ARG:CA	12:AM:87:LEU:HD12	2.40	0.51
12:AM:87:LEU:CD2	12:AM:98:PHE:CE1	2.83	0.51
15:AP:57:ARG:CB	15:AP:61:LEU:HD21	2.40	0.51
15:AP:64:ALA:CA	15:AP:142:LYS:HG2	2.40	0.51
16:AQ:26:LEU:HD22	16:AQ:101:VAL:HG21	1.91	0.51
18:AS:5:ALA:HB1	18:AS:50:VAL:HG12	1.93	0.51
18:AS:68:ARG:CZ	18:AS:110:LYS:HB3	2.40	0.51
19:AT:16:ASN:O	19:AT:17:ASP:C	2.53	0.51
22:AW:51:LYS:O	22:AW:54:ALA:CB	2.57	0.51
23:AX:3:ARG:HB2	23:AX:60:GLU:HG2	1.91	0.51
23:AX:53:LEU:HD23	23:AX:53:LEU:C	2.35	0.51
24:A0:41:ALA:O	24:A0:42:LYS:C	2.53	0.51
24:A0:53:HIS:C	24:A0:56:LYS:HG3	2.36	0.51
26:A2:4:ILE:CA	26:A2:12:TYR:CD2	2.86	0.51
26:A2:12:TYR:CE2	26:A2:14:VAL:N	2.78	0.51
28:A4:44:THR:H	28:A4:61:LYS:NZ	2.08	0.51
28:A4:59:PHE:N	28:A4:62:ARG:HE	2.09	0.51
29:A5:46:CYS:O	29:A5:48:ASN:N	2.40	0.51
32:A8:28:GLY:C	32:A8:29:LYS:HG3	2.34	0.51
34:BA:52:G:C2	34:BA:53:A:C4	2.98	0.51
34:BA:54:C:N3	34:BA:357:G:N2	2.58	0.51
34:BA:191:G:HO2'	55:BW:102:GLY:CA	2.23	0.51
34:BA:243:A:N6	34:BA:246:A:C6	2.79	0.51
34:BA:404:U:C2	34:BA:405:U:C5	2.98	0.51
34:BA:404:U:C2	34:BA:405:U:H5	2.28	0.51
34:BA:452:A:C6	34:BA:453:A:C6	2.98	0.51
34:BA:515:G:N2	34:BA:536:C:N3	2.50	0.51
34:BA:689:C:OP1	46:BN:27:ASN:ND2	2.42	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:754:C:H4'	50:BR:72:ARG:HH22	1.71	0.51
34:BA:834:C:C4	34:BA:853:G:C6	2.98	0.51
34:BA:854:G:P	34:BA:871:U:O2	2.69	0.51
34:BA:881:G:C5	34:BA:882:C:C5	2.98	0.51
34:BA:1202:G:C1'	49:BQ:29:ARG:HD3	2.40	0.51
34:BA:1236:A:C4'	34:BA:1304:G:H4'	2.15	0.51
34:BA:1250:A:C5	34:BA:1251:A:C5	2.99	0.51
34:BA:1342:C:O2'	44:BL:124:GLN:CA	2.58	0.51
34:BA:1348:U:C2	34:BA:1349:A:C8	2.98	0.51
34:BA:1509:C:C2	34:BA:1510:U:C6	2.98	0.51
34:BA:1520:G:O2'	34:BA:1521:G:C5'	2.58	0.51
35:BB:51:G:C4	35:BB:52:U:C6	2.98	0.51
35:BC:8:U:C4	35:BC:13:C:N4	2.78	0.51
36:B1:20:A:C6	36:B1:21:U:C2	2.98	0.51
37:BE:187:LEU:CA	37:BE:201:ILE:HB	2.33	0.51
38:BF:28:GLN:HA	38:BF:30:ARG:NH1	2.25	0.51
38:BF:164:ARG:CG	38:BF:164:ARG:HH11	2.23	0.51
39:BG:25:ARG:C	39:BG:27:TYR:N	2.52	0.51
40:BH:148:VAL:O	40:BH:152:ARG:HG2	2.10	0.51
42:BJ:41:ARG:O	42:BJ:44:TYR:HB2	2.10	0.51
43:BK:35:ILE:O	43:BK:36:LEU:C	2.53	0.51
43:BK:63:LEU:CB	43:BK:65:TYR:OH	2.58	0.51
43:BK:118:VAL:O	43:BK:119:LEU:HD22	2.10	0.51
44:BL:78:LYS:O	44:BL:78:LYS:HD2	2.09	0.51
48:BP:14:ARG:CG	48:BP:44:ARG:NH1	2.73	0.51
51:BS:4:ILE:HG23	51:BS:21:VAL:CG1	2.41	0.51
51:BS:57:ARG:HD3	51:BS:79:VAL:HG12	1.92	0.51
53:BU:63:GLN:O	53:BU:67:ALA:CB	2.59	0.51
54:BV:47:HIS:H	54:BV:62:ILE:HG22	1.73	0.51
55:BW:63:ILE:HD13	55:BW:80:ARG:CB	2.40	0.51
1:AB:30:C:H4'	1:AB:58:A:H2	1.75	0.51
1:AB:83:G:N1	1:AB:84:C:C5	2.77	0.51
2:AA:58:G:OP1	19:AT:60:GLY:HA2	2.10	0.51
2:AA:137(A):G:C8	2:AA:138:G:O6	2.63	0.51
2:AA:238:C:C2	2:AA:239:U:C6	2.98	0.51
2:AA:273(A):G:H2'	2:AA:273(B):C:C6	2.44	0.51
2:AA:273(D):C:N4	2:AA:363(B):G:C6	2.78	0.51
2:AA:297:C:C5	2:AA:298:G:C4	2.98	0.51
2:AA:494:G:H4'	18:AS:6:ILE:CG2	2.38	0.51
2:AA:529:A:C2	2:AA:2022:U:OP1	2.63	0.51
2:AA:574:C:C2	2:AA:2055:C:C6	2.98	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:681:G:H2'	2:AA:682:G:O4'	2.11	0.51
2:AA:686:G:H8	31:A7:8:ASN:HD22	1.58	0.51
2:AA:700:G:C6	2:AA:733:G:C2	2.99	0.51
2:AA:736:C:C4	2:AA:737:C:C5	2.98	0.51
2:AA:777:A:C2'	2:AA:778:G:C5'	2.88	0.51
2:AA:786:C:C2'	2:AA:787:U:O4'	2.57	0.51
2:AA:906:G:C3'	2:AA:907:U:H5''	2.40	0.51
2:AA:950:G:H2'	2:AA:951:C:C5	2.39	0.51
2:AA:950:G:C5	2:AA:951:C:C5	2.98	0.51
2:AA:962:G:O2'	2:AA:963:U:O4'	2.27	0.51
2:AA:987:G:O2'	2:AA:1000:A:H1'	2.10	0.51
2:AA:1114:G:C2	2:AA:1115:G:C8	2.98	0.51
2:AA:1139:G:OP1	12:AM:46:ILE:HG12	2.10	0.51
2:AA:1248:G:H8	25:A1:2:PRO:HB3	1.75	0.51
2:AA:1364:G:P	28:A4:3:LYS:HG3	2.51	0.51
2:AA:1364:G:C1'	2:AA:1368:G:N2	2.73	0.51
2:AA:1388:G:HO2'	2:AA:1525:G:H5'	1.70	0.51
2:AA:1449:A:H2'	2:AA:449(A):G:O5'	2.11	0.51
2:AA:1567:A:O2'	2:AA:1568:G:C6	2.58	0.51
2:AA:1678:G:N2	2:AA:1989:G:H22	2.08	0.51
2:AA:1754:C:H5'	17:AR:39:ASN:ND2	2.25	0.51
2:AA:1800:C:N4	2:AA:1817:G:C6	2.78	0.51
2:AA:1903:G:N2	2:AA:1904:G:C5	2.78	0.51
2:AA:1908:C:O2	2:AA:1909:C:C6	2.63	0.51
2:AA:1909:C:H2'	2:AA:1910:G:C5'	2.40	0.51
2:AA:1944:U:O4'	2:AA:1955:U:H1'	2.09	0.51
2:AA:2009:G:C1'	24:A0:107:ASP:O	2.56	0.51
2:AA:2040:C:O2	2:AA:2040:C:C2'	2.53	0.51
2:AA:2051:A:C6	2:AA:2614:A:N7	2.79	0.51
2:AA:2060:A:O2'	2:AA:2061:G:OP2	2.23	0.51
2:AA:2088:G:H2'	2:AA:2089:U:O5'	2.11	0.51
2:AA:2234:G:C6	2:AA:2235:G:C5	2.99	0.51
2:AA:2242:G:C2'	2:AA:2243:U:O5'	2.58	0.51
2:AA:2298:A:H1'	2:AA:2321:G:N2	2.25	0.51
2:AA:2602:A:OP1	35:BC:75:C:OP1	2.27	0.51
2:AA:2655:G:O2'	2:AA:2656:U:C5	2.63	0.51
2:AA:2768:C:O2'	2:AA:2769:C:H5'	2.10	0.51
2:AA:2837:G:H1	2:AA:2881:C:N4	2.08	0.51
2:AA:2859:G:O2'	2:AA:2860:A:H5'	2.10	0.51
5:AE:175:ASP:O	5:AE:176:HIS:C	2.52	0.51
7:AG:90:LEU:CD2	48:BP:3:ARG:NH1	2.70	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:24:LYS:O	9:AI:27:ASP:N	2.43	0.51
9:AI:25:LEU:HA	9:AI:28:LYS:HD2	1.91	0.51
9:AJ:61:VAL:O	9:AJ:102:ILE:N	2.44	0.51
10:AK:77:VAL:O	10:AK:144:HIS:ND1	2.44	0.51
11:AL:113:MET:N	11:AL:114:PRO:HD2	2.24	0.51
14:AO:142:LEU:O	14:AO:145:LEU:CD1	2.58	0.51
15:AP:31:PHE:CE1	15:AP:87:LYS:O	2.63	0.51
16:AQ:31:LYS:O	16:AQ:49:THR:HG23	2.10	0.51
16:AQ:32:PRO:CG	16:AQ:100:ALA:HB1	2.40	0.51
19:AT:31:ARG:C	19:AT:32:ALA:O	2.53	0.51
19:AT:39:ASP:C	19:AT:43:GLU:OE1	2.53	0.51
20:AU:44:ALA:C	20:AU:65:VAL:HG22	2.35	0.51
20:AU:73:HIS:CE1	20:AU:89:ARG:O	2.63	0.51
20:AU:105:ASP:CB	20:AU:108:ARG:HD2	2.40	0.51
21:AV:40:ASP:HB2	21:AV:41:ARG:NE	2.26	0.51
21:AV:68:ALA:O	21:AV:82:ASP:CB	2.58	0.51
23:AX:31:LEU:O	23:AX:32:GLN:OE1	2.27	0.51
23:AX:38:GLU:OE1	23:AX:40:THR:HG21	2.10	0.51
26:A2:69:ILE:N	26:A2:91:THR:CG2	2.45	0.51
27:A3:71:ASN:O	27:A3:72:LYS:C	2.52	0.51
29:A5:33:CYS:SG	29:A5:40:LYS:HE3	2.51	0.51
29:A5:45:ILE:HB	29:A5:57:VAL:HG21	1.91	0.51
30:A6:32:GLN:HB3	30:A6:35:LEU:HD12	1.91	0.51
30:A6:42:PRO:O	30:A6:43:VAL:C	2.53	0.51
32:A8:54:GLU:O	32:A8:58:MET:HB2	2.10	0.51
33:A9:10:MET:C	33:A9:11:CYS:O	2.50	0.51
34:BA:28:G:N1	34:BA:556:C:N4	2.59	0.51
34:BA:149:A:H2'	34:BA:150:C:C6	2.46	0.51
34:BA:163:C:O2'	34:BA:164:U:C4'	2.58	0.51
34:BA:183:G:O6	34:BA:194:C:N3	2.44	0.51
34:BA:225:C:C2'	34:BA:226:G:O5'	2.53	0.51
34:BA:247:G:N3	34:BA:282:A:C2	2.76	0.51
34:BA:376:G:OP1	51:BS:6:LEU:HD11	2.10	0.51
34:BA:508:C:H5''	34:BA:509:A:OP1	2.10	0.51
34:BA:550:G:C6	34:BA:551:U:C4	2.98	0.51
34:BA:575:G:N1	34:BA:821:G:N7	2.58	0.51
34:BA:582:U:C4	34:BA:583:A:C5	2.98	0.51
34:BA:745:C:H1'	34:BA:836:G:O2'	2.10	0.51
34:BA:774:G:H5''	34:BA:774:G:H8	1.76	0.51
34:BA:817:C:C4	34:BA:819:A:O4'	2.63	0.51
34:BA:859:A:C5	34:BA:860:A:C4	2.98	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:872:A:C4	34:BA:874:G:N7	2.78	0.51
34:BA:929:G:H5'	34:BA:1533:C:N4	2.26	0.51
34:BA:950:U:H1'	34:BA:971:G:C4	2.45	0.51
34:BA:961:U:O2	34:BA:1201:A:N1	2.43	0.51
34:BA:1111:A:N1	38:BF:177:THR:OG1	2.39	0.51
34:BA:1125:U:HO2'	34:BA:1126:U:P	2.33	0.51
34:BA:1128:C:O2	34:BA:1130:A:N7	2.43	0.51
34:BA:1157:A:N6	34:BA:1178:G:H1'	2.25	0.51
34:BA:1169:A:C2'	34:BA:1171:G:H5'	2.40	0.51
34:BA:1236:A:C2	34:BA:1237:C:N3	2.78	0.51
34:BA:1284:C:C6	34:BA:1285:A:C8	2.99	0.51
34:BA:1407:C:C2'	34:BA:1408:A:C5'	2.89	0.51
34:BA:1408:A:C4	34:BA:1494:G:N2	2.78	0.51
34:BA:1415:G:O2'	34:BA:1416:G:H5'	2.10	0.51
34:BA:1418:A:H2'	34:BA:1419:G:H5'	1.92	0.51
34:BA:1470:G:C2'	34:BA:1471:G:O5'	2.57	0.51
35:BC:18:G:N1	35:BC:57:G:C6	2.77	0.51
35:BC:18:G:C6	35:BC:58:A:C2	2.97	0.51
35:BC:36:A:N1	36:B1:60:A:C2	2.78	0.51
35:BC:47:U:O2	35:BC:50:U:OP1	2.27	0.51
35:BC:74:C:C3'	35:BC:75:C:C5'	2.82	0.51
39:BG:190:ASP:O	39:BG:194:LEU:CD2	2.57	0.51
40:BH:143:ARG:HB3	40:BH:147:ASP:CB	2.41	0.51
41:BI:39:LYS:HG3	41:BI:64:GLN:CB	2.36	0.51
42:BJ:76:ARG:CD	42:BJ:89:MET:HE1	2.37	0.51
42:BJ:112:PRO:O	42:BJ:113:GLU:O	2.28	0.51
46:BN:31:THR:OG1	46:BN:42:TRP:HB3	2.11	0.51
46:BN:40:ILE:O	46:BN:41:THR:CG2	2.58	0.51
47:BO:119:LYS:O	47:BO:120:TYR:C	2.49	0.51
48:BP:77:ASN:O	48:BP:81:LEU:CD1	2.56	0.51
49:BQ:25:VAL:HG12	49:BQ:39:LEU:HD23	1.93	0.51
50:BR:8:LYS:O	50:BR:12:ILE:HG13	2.11	0.51
51:BS:4:ILE:HG23	51:BS:21:VAL:HG13	1.89	0.51
51:BS:26:ARG:HB3	51:BS:30:GLY:HA3	1.91	0.51
52:BT:9:VAL:O	52:BT:11:VAL:CG1	2.58	0.51
54:BV:20:LEU:CD1	54:BV:21:GLU:N	2.72	0.51
55:BW:40:ALA:O	55:BW:41:VAL:C	2.52	0.51
55:BW:89:ARG:HB2	55:BW:104:LEU:CD1	2.40	0.51
56:BX:16:GLY:C	56:BX:18:TYR:N	2.67	0.51
1:AB:41:U:H6	1:AB:41:U:H3'	1.74	0.51
1:AB:82:G:C2'	1:AB:83:G:H8	2.17	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:152:G:H2'	2:AA:153:C:H5'	1.93	0.51
2:AA:262:A:N7	2:AA:263:C:C5	2.78	0.51
2:AA:270(H):C:H2'	2:AA:270(I):G:C8	2.45	0.51
2:AA:297:C:N3	2:AA:342:G:C2	2.78	0.51
2:AA:502:A:C8	2:AA:502:A:H3'	2.45	0.51
2:AA:531:C:H3'	2:AA:532:A:O4'	2.09	0.51
2:AA:587:C:HO2'	2:AA:588:U:P	2.33	0.51
2:AA:685:A:N3	2:AA:688:U:C4	2.78	0.51
2:AA:696:G:C6	2:AA:697:C:C4	2.98	0.51
2:AA:729:G:O6	2:AA:1775:U:C4	2.64	0.51
2:AA:823:G:C6	2:AA:835:A:C6	2.98	0.51
2:AA:956:G:H2'	2:AA:957:A:H5''	1.93	0.51
2:AA:1020:A:O2'	2:AA:1021:A:OP2	2.23	0.51
2:AA:1044:G:O2'	2:AA:1111:A:C2	2.63	0.51
2:AA:1064:C:H3'	2:AA:1065:U:H5	1.76	0.51
2:AA:1113:U:C2'	2:AA:1114:G:H8	2.16	0.51
2:AA:1128:A:O2'	2:AA:1129:A:P	2.68	0.51
2:AA:1182:A:C2'	2:AA:1183:G:O5'	2.58	0.51
2:AA:1215:G:H1	2:AA:1234:U:H3	1.56	0.51
2:AA:1247:A:O2'	2:AA:1248:G:OP1	2.28	0.51
2:AA:1392:A:C4	2:AA:1393:A:C6	2.99	0.51
2:AA:1404:C:C2	2:AA:1405:U:C5	2.98	0.51
2:AA:1417:C:C5	2:AA:1418:G:C5	2.98	0.51
2:AA:1418:G:C2'	2:AA:1579:A:H61	2.24	0.51
2:AA:1455:G:H2'	2:AA:1456:G:O4'	2.10	0.51
2:AA:1457:A:C2'	2:AA:1458:C:H5'	2.41	0.51
2:AA:1480:G:N1	2:AA:1513:C:O2	2.40	0.51
2:AA:1492:G:O2'	2:AA:1493:C:C6	2.54	0.51
2:AA:1507:A:H5'	2:AA:1508:A:OP1	2.09	0.51
2:AA:1579:A:O2'	2:AA:1580:A:H5'	2.10	0.51
2:AA:1580:A:C2	2:AA:1581:G:N1	2.78	0.51
2:AA:1615:C:OP2	2:AA:1615:C:H6	1.93	0.51
2:AA:1630:G:O4'	2:AA:2698:U:OP1	2.29	0.51
2:AA:1669:A:O2'	2:AA:1670:C:P	2.68	0.51
2:AA:1725:G:O6	2:AA:1741:C:N4	2.44	0.51
2:AA:1897:G:H2'	2:AA:1898:U:O4'	2.09	0.51
2:AA:2103:C:N3	2:AA:2187:G:C6	2.79	0.51
2:AA:2217:G:C2	2:AA:2218:G:C8	2.98	0.51
2:AA:2217:G:O2'	2:AA:2218:G:H5'	2.10	0.51
2:AA:2225:A:C5'	2:AA:2226:C:O4'	2.59	0.51
2:AA:2269:A:H2'	2:AA:2270:G:O4'	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2269:A:N7	2:AA:2270:G:N7	2.58	0.51
2:AA:2317:C:H4'	7:AG:150:SER:HB3	1.92	0.51
2:AA:2360:A:P	32:A8:49:VAL:HG13	2.50	0.51
2:AA:2483:C:C4	2:AA:2484:G:C8	2.98	0.51
2:AA:2524:G:O2'	2:AA:2741:A:N1	2.42	0.51
2:AA:2531:A:C2'	2:AA:2532:G:C5'	2.87	0.51
2:AA:2543:G:C6	2:AA:2544:G:N1	2.78	0.51
2:AA:2558:C:N3	2:AA:2559:C:C4	2.79	0.51
2:AA:2562:U:H1'	13:AN:23:LYS:HD3	1.92	0.51
2:AA:2696:U:O2'	2:AA:2697:G:H5'	2.10	0.51
2:AA:2866:U:H4'	2:AA:2867:G:O5'	2.09	0.51
2:AA:2868:A:H2'	2:AA:2869:G:C8	2.44	0.51
2:AA:2878:U:OP2	2:AA:2878:U:H6	1.89	0.51
3:AC:113:VAL:HG12	3:AC:138:PRO:HG3	1.92	0.51
3:AC:177:LYS:C	3:AC:179:SER:H	2.17	0.51
4:AD:170:TYR:C	4:AD:182:MET:SD	2.93	0.51
4:AD:174:ARG:NE	4:AD:180:VAL:HG22	2.24	0.51
4:AD:213:LYS:HB3	4:AD:215:LYS:H	1.75	0.51
5:AE:228:ARG:O	5:AE:231:TRP:N	2.26	0.51
5:AE:239:GLY:O	5:AE:240:PRO:O	2.28	0.51
5:AE:251:PRO:O	5:AE:252:GLN:NE2	2.44	0.51
6:AF:197:SER:CB	6:AF:236:THR:OG1	2.58	0.51
7:AG:21:VAL:HG11	7:AG:84:LEU:HD21	1.93	0.51
8:AH:34:ARG:CG	8:AH:35:THR:N	2.73	0.51
10:AK:93:ILE:O	10:AK:93:ILE:CG1	2.56	0.51
12:AM:69:TYR:HD2	12:AM:71:TYR:HE1	1.58	0.51
13:AN:1:MET:O	13:AN:33:ALA:N	2.43	0.51
13:AN:16:ALA:O	13:AN:17:ARG:HG3	2.10	0.51
13:AN:87:ILE:HD12	13:AN:87:ILE:N	2.26	0.51
15:AP:41:THR:HG23	15:AP:127:ASN:OD1	2.10	0.51
15:AP:64:ALA:HA	15:AP:142:LYS:CG	2.41	0.51
16:AQ:27:LEU:HD13	16:AQ:27:LEU:C	2.35	0.51
16:AQ:41:LYS:NZ	16:AQ:68:GLU:OE2	2.42	0.51
18:AS:18:ARG:O	18:AS:21:VAL:HG22	2.11	0.51
19:AT:49:VAL:O	19:AT:50:GLU:O	2.28	0.51
20:AU:30:ASP:OD1	20:AU:30:ASP:N	2.43	0.51
20:AU:48:VAL:CG2	20:AU:98:VAL:HA	2.31	0.51
20:AU:51:LEU:CD1	20:AU:95:ASN:O	2.59	0.51
23:AX:23:LEU:HA	23:AX:28:LEU:CD1	2.22	0.51
25:A1:104:GLU:O	25:A1:105:ALA:C	2.54	0.51
26:A2:29:ALA:O	26:A2:30:GLY:C	2.52	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:A3:26:PHE:C	27:A3:60:PHE:CD1	2.89	0.51
27:A3:27:GLY:O	27:A3:28:GLY:O	2.28	0.51
28:A4:15:ILE:HG12	28:A4:36:TRP:CE3	2.45	0.51
34:BA:76:C:H2'	34:BA:77:G:C8	2.45	0.51
34:BA:193:C:H5'	55:BW:60:GLU:HB3	1.92	0.51
34:BA:233:C:N3	34:BA:234:C:C5	2.79	0.51
34:BA:247:G:C2'	34:BA:248:C:O5'	2.59	0.51
34:BA:359:U:C4	34:BA:360:A:N7	2.78	0.51
34:BA:421:U:C6	34:BA:421:U:P	3.03	0.51
34:BA:522:C:C5	34:BA:523:A:N6	2.69	0.51
34:BA:556:C:C2'	34:BA:557:G:H5'	2.41	0.51
34:BA:571:U:O4	34:BA:865:A:N1	2.44	0.51
34:BA:616:G:C2'	34:BA:617:G:H5'	2.40	0.51
34:BA:737:A:OP1	41:BI:91:VAL:HG13	2.11	0.51
34:BA:826:C:H5'	43:BK:12:ARG:NE	2.24	0.51
34:BA:922:G:H2'	34:BA:923:A:H8	1.74	0.51
34:BA:1317:C:C6	49:BQ:16:PHE:CD2	2.99	0.51
34:BA:1338:G:H2'	34:BA:1339:A:C8	2.46	0.51
34:BA:1377:A:H4'	34:BA:1378:C:C5	2.46	0.51
34:BA:1400:C:H4'	34:BA:1401:G:OP2	2.10	0.51
34:BA:1463:C:H2'	34:BA:1464:G:O4'	2.09	0.51
35:BB:1:G:N1	35:BB:73:A:C4	2.79	0.51
35:BB:24:G:H8	35:BB:24:G:O5'	1.94	0.51
35:BB:51:G:C5	35:BB:52:U:C5	2.98	0.51
35:BC:28:C:O5'	35:BC:28:C:C6	2.63	0.51
37:BE:217:ARG:CA	37:BE:220:ASP:OD2	2.44	0.51
38:BF:172:ARG:NH2	38:BF:203:PHE:HE2	2.04	0.51
41:BI:67:MET:HE2	41:BI:72:VAL:HG22	1.91	0.51
41:BI:67:MET:HB2	41:BI:68:PRO:CD	2.39	0.51
41:BI:82:ARG:C	41:BI:83:ASP:OD2	2.53	0.51
42:BJ:87:VAL:HB	42:BJ:156:TRP:HE3	1.75	0.51
44:BL:28:VAL:HG23	44:BL:31:GLN:O	2.10	0.51
46:BN:85:ARG:CZ	46:BN:111:ASP:CG	2.84	0.51
47:BO:84:LEU:CB	47:BO:104:VAL:HG11	2.40	0.51
47:BO:117:ARG:CZ	47:BO:124:LYS:N	2.73	0.51
47:BO:117:ARG:NH1	47:BO:124:LYS:CD	2.74	0.51
48:BP:14:ARG:NE	48:BP:44:ARG:NH1	2.59	0.51
48:BP:108:ARG:NH1	48:BP:108:ARG:CB	2.73	0.51
49:BQ:39:LEU:HD13	49:BQ:44:LEU:HA	1.92	0.51
51:BS:43:LYS:CG	51:BS:48:TRP:CE3	2.94	0.51
51:BS:75:ARG:HG3	51:BS:80:PHE:HB2	1.90	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BX:6:ARG:C	56:BX:8:THR:N	2.68	0.51
56:BX:12:LYS:HG3	56:BX:18:TYR:CA	2.40	0.51
1:AB:2:C:O5'	1:AB:2:C:H6	1.94	0.51
1:AB:52:A:N3	1:AB:53:A:C1'	2.73	0.51
1:AB:79:C:H2'	1:AB:80:U:C5'	2.41	0.51
2:AA:29:U:O5'	2:AA:29:U:C6	2.63	0.51
2:AA:191:A:C2	2:AA:192:C:N3	2.79	0.51
2:AA:300:A:C6	2:AA:334:C:C4'	2.93	0.51
2:AA:391:G:C4	2:AA:411:G:C2	2.98	0.51
2:AA:452:G:P	6:AF:52:ALA:HB2	2.50	0.51
2:AA:643:A:H3'	2:AA:643:A:C8	2.46	0.51
2:AA:681:G:N2	2:AA:682:G:N3	2.58	0.51
2:AA:699:A:N6	2:AA:734:A:C8	2.78	0.51
2:AA:811:U:O2'	2:AA:812:C:OP1	2.22	0.51
2:AA:815:C:N3	2:AA:1193:G:C6	2.79	0.51
2:AA:864:G:H2'	2:AA:865:C:O4'	2.09	0.51
2:AA:940:G:N1	2:AA:941:A:H8	2.08	0.51
2:AA:994:C:C2	25:A1:53:LYS:HD3	2.45	0.51
2:AA:1034:G:OP1	33:A9:18:ARG:NH2	2.42	0.51
2:AA:1058:G:HO2'	2:AA:1059:G:C5'	2.22	0.51
2:AA:1062:G:C6	2:AA:1077:A:C4	2.99	0.51
2:AA:1165:U:O2'	2:AA:1166:C:H6	1.91	0.51
2:AA:1266:G:C4	18:AS:15:ARG:NH1	2.79	0.51
2:AA:1348:G:C2'	2:AA:1349:A:O5'	2.58	0.51
2:AA:1367:A:HO2'	31:A7:25:LYS:HD3	1.76	0.51
2:AA:1392:A:C5	2:AA:1393:A:C6	2.98	0.51
2:AA:1442:G:O2'	2:AA:1443:G:H5'	2.11	0.51
2:AA:1478:G:N2	2:AA:1515:C:N3	2.56	0.51
2:AA:1508:A:H3'	2:AA:1508:A:H8	1.67	0.51
2:AA:1518:C:C4	2:AA:1519:G:C8	2.97	0.51
2:AA:1571:A:H2	2:AA:1572:A:C8	2.27	0.51
2:AA:1636:C:C2'	2:AA:1761:C:H1'	2.41	0.51
2:AA:1694:C:O2'	2:AA:1695:G:H5''	2.10	0.51
2:AA:1753:G:C8	2:AA:1755:A:OP2	2.63	0.51
2:AA:1777:U:C4	2:AA:1778:U:C5	2.99	0.51
2:AA:1858:G:C2	2:AA:1885:A:C5	2.98	0.51
2:AA:1892:C:C2	2:AA:1893:C:C5	2.99	0.51
2:AA:1941:C:O2	2:AA:1942:C:C5'	2.58	0.51
2:AA:1970:A:C2'	2:AA:1971:A:OP2	2.59	0.51
2:AA:2000:G:O6	2:AA:2001:A:N6	2.43	0.51
2:AA:2018:G:N2	2:AA:2019:A:H1'	2.24	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2098:U:H2'	2:AA:2099:U:C6	2.45	0.51
2:AA:2108:C:H5''	2:AA:2109:U:C5	2.43	0.51
2:AA:2183:C:C2	2:AA:2184:G:N7	2.78	0.51
2:AA:2191:G:C2	2:AA:2192:G:H1'	2.46	0.51
2:AA:2215:G:N2	2:AA:2216:G:C2	2.79	0.51
2:AA:2268:A:C4'	2:AA:2269:A:OP2	2.59	0.51
2:AA:2373:G:C2	2:AA:2374:C:C4	2.99	0.51
2:AA:2495:G:H2'	2:AA:2496:C:O4'	2.10	0.51
2:AA:2595:G:H3'	2:AA:2595:G:C8	2.46	0.51
2:AA:2661:G:C2'	2:AA:2662:A:H8	2.20	0.51
2:AA:2730:C:O3'	5:AE:265:ASN:OD1	2.29	0.51
2:AA:2746:U:C4	2:AA:2747:G:N7	2.79	0.51
2:AA:2774:C:H2'	2:AA:2774:C:O2	2.10	0.51
3:AC:32:LEU:CD1	3:AC:220:PRO:HB2	2.32	0.51
3:AC:95:GLY:N	3:AC:99:ILE:HD12	2.25	0.51
3:AC:194:ARG:HG3	3:AC:194:ARG:HH11	1.76	0.51
4:AD:66:PHE:H	4:AD:67:LYS:HZ3	1.58	0.51
4:AD:196:ASN:CB	4:AD:199:ARG:HD2	2.39	0.51
5:AE:45:LYS:CE	5:AE:303:PRO:O	2.59	0.51
5:AE:267:ARG:HD3	5:AE:297:LYS:HD2	1.91	0.51
5:AE:302:GLY:O	5:AE:303:PRO:O	2.27	0.51
6:AF:95:GLU:O	6:AF:96:LYS:HG3	2.10	0.51
6:AF:168:ARG:C	6:AF:193:LEU:HG	2.33	0.51
6:AF:203:ALA:O	6:AF:204:ALA:C	2.53	0.51
7:AG:19:GLU:CD	7:AG:135:VAL:HG13	2.33	0.51
7:AG:24:HIS:HB2	7:AG:129:ASP:OD2	2.11	0.51
7:AG:82:GLU:C	7:AG:85:GLN:HG3	2.34	0.51
8:AH:43:THR:CG2	8:AH:52:THR:HG22	2.27	0.51
10:AK:35:LEU:O	10:AK:36:ALA:HB2	2.09	0.51
10:AK:76:THR:HA	10:AK:142:LYS:HE2	1.91	0.51
12:AM:44:ALA:HB1	12:AM:132:LEU:HD22	1.90	0.51
12:AM:59:LYS:O	12:AM:60:ARG:C	2.51	0.51
12:AM:131:THR:O	12:AM:131:THR:OG1	2.24	0.51
13:AN:113:LYS:O	13:AN:117:LEU:HD23	2.10	0.51
14:AO:117:GLU:OE1	14:AO:136:ALA:C	2.53	0.51
15:AP:46:VAL:HG22	15:AP:156:ASN:HD22	1.71	0.51
15:AP:96:GLN:O	15:AP:107:LYS:HD2	2.11	0.51
19:AT:6:LYS:NZ	19:AT:62:LYS:H	2.08	0.51
19:AT:14:ALA:HA	19:AT:17:ASP:OD2	2.11	0.51
20:AU:41:ARG:O	20:AU:112:LEU:CB	2.59	0.51
20:AU:81:LYS:HD2	20:AU:83:ASP:CG	2.35	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:142:ASN:C	21:AV:171:VAL:HG21	2.35	0.51
24:A0:107:ASP:CG	24:A0:109:ALA:H	2.18	0.51
25:A1:34:ASN:O	25:A1:35:ALA:C	2.51	0.51
25:A1:99:ALA:CA	25:A1:106:PHE:CD1	2.93	0.51
26:A2:18:ASP:O	26:A2:18:ASP:CG	2.54	0.51
26:A2:24:SER:OG	26:A2:28:GLU:CG	2.59	0.51
26:A2:74:TYR:CD1	26:A2:86:HIS:O	2.64	0.51
27:A3:42:GLY:C	27:A3:43:THR:HG22	2.35	0.51
28:A4:59:PHE:CA	28:A4:62:ARG:NE	2.74	0.51
28:A4:59:PHE:CG	28:A4:62:ARG:NH2	2.79	0.51
29:A5:10:LYS:HG3	29:A5:11:THR:H	1.76	0.51
29:A5:42:SER:O	29:A5:43:HIS:CB	2.57	0.51
30:A6:26:LYS:C	30:A6:27:ASN:CG	2.79	0.51
33:A9:12:ASP:O	33:A9:13:ASN:OD1	2.28	0.51
33:A9:17:VAL:HG12	33:A9:18:ARG:H	1.75	0.51
34:BA:188:C:C2'	34:BA:189:G:H5'	2.41	0.51
34:BA:439:A:H3'	34:BA:440:A:H8	1.73	0.51
34:BA:463:A:C5	34:BA:474:G:C5	2.99	0.51
34:BA:476:G:N2	34:BA:477:G:H1'	2.24	0.51
34:BA:489:C:N4	34:BA:490:G:O6	2.44	0.51
34:BA:548:G:H2'	34:BA:549:C:C6	2.45	0.51
34:BA:690:G:O6	34:BA:691:G:C2	2.64	0.51
34:BA:746:A:H8	34:BA:746:A:O5'	1.93	0.51
34:BA:808:C:OP2	50:BR:48:LYS:NZ	2.36	0.51
34:BA:818:G:C3'	34:BA:819:A:C5'	2.87	0.51
34:BA:865:A:H2'	34:BA:866:C:O4'	2.10	0.51
34:BA:886:G:H2'	34:BA:887:G:C8	2.36	0.51
34:BA:984:C:H2'	34:BA:984:C:O2	2.10	0.51
34:BA:1063:C:C4	34:BA:1064:G:N7	2.78	0.51
34:BA:1145:C:O2'	34:BA:1146:A:P	2.69	0.51
34:BA:1147:C:C4	34:BA:1148:U:C5	2.98	0.51
34:BA:1240:U:C6	42:BJ:32:ARG:NH2	2.78	0.51
34:BA:1278:U:H5'	34:BA:1279:A:O4'	2.10	0.51
34:BA:1343:G:N2	34:BA:1344:C:C2	2.78	0.51
34:BA:1351:U:O2'	42:BJ:33:ASP:OD2	2.23	0.51
34:BA:1360:A:N1	34:BA:1361:G:N2	2.59	0.51
34:BA:1371:G:OP1	44:BL:68:GLY:CA	2.58	0.51
34:BA:1464:G:C4	34:BA:1465:C:C5	2.99	0.51
34:BA:1512:U:C2	34:BA:1513:A:N7	2.79	0.51
35:BB:32:C:H42	35:BB:33:U:H3	1.57	0.51
35:BC:34:G:H2'	35:BC:35:A:C5'	2.40	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:36:A:C2'	35:BC:37:G:O5'	2.57	0.51
36:B1:26:C:H2'	36:B1:27:G:C8	2.46	0.51
37:BE:124:SER:OG	37:BE:126:GLU:CD	2.53	0.51
37:BE:135:GLN:C	37:BE:139:LYS:CE	2.82	0.51
38:BF:130:VAL:O	38:BF:134:ILE:CD1	2.57	0.51
38:BF:186:PHE:CD1	38:BF:187:ALA:N	2.79	0.51
39:BG:194:LEU:HD22	39:BG:194:LEU:N	2.25	0.51
40:BH:45:PHE:O	40:BH:45:PHE:CG	2.64	0.51
40:BH:51:VAL:CB	40:BH:52:PRO:HD3	2.32	0.51
40:BH:80:ILE:HD12	40:BH:80:ILE:H	1.74	0.51
41:BI:23:LYS:CE	41:BI:61:LEU:HD11	2.25	0.51
41:BI:81:ILE:CG2	41:BI:82:ARG:H	2.03	0.51
42:BJ:71:PRO:CG	42:BJ:96:GLN:HA	2.40	0.51
43:BK:114:THR:OG1	43:BK:116:LYS:HB2	2.11	0.51
44:BL:63:ILE:HD12	44:BL:63:ILE:N	2.25	0.51
44:BL:104:ARG:O	44:BL:105:ASP:OD2	2.28	0.51
49:BQ:48:ALA:O	49:BQ:50:LYS:N	2.43	0.51
50:BR:9:GLN:CD	50:BR:12:ILE:HD12	2.35	0.51
51:BS:9:PHE:CZ	51:BS:18:ARG:HG3	2.46	0.51
51:BS:75:ARG:O	51:BS:76:GLN:C	2.53	0.51
52:BT:97:SER:C	52:BT:98:LEU:CG	2.82	0.51
53:BU:56:THR:C	53:BU:58:LEU:HG	2.36	0.51
54:BV:45:VAL:HG22	54:BV:67:VAL:CG2	2.36	0.51
54:BV:58:VAL:O	54:BV:58:VAL:CG2	2.59	0.51
2:AA:83:G:O6	2:AA:102:G:C2'	2.57	0.51
2:AA:105:C:H2'	2:AA:105:C:O2	2.11	0.51
2:AA:123:G:C2	2:AA:124:G:C4	2.98	0.51
2:AA:131:G:C2	2:AA:149:A:C6	2.99	0.51
2:AA:242:G:C4	2:AA:254:G:C6	2.99	0.51
2:AA:257:A:C8	2:AA:257:A:H3'	2.44	0.51
2:AA:304:G:H21	2:AA:305:U:H1'	1.74	0.51
2:AA:323:G:H5'	2:AA:324:A:OP1	2.10	0.51
2:AA:397:G:H5'	28:A4:40:HIS:O	2.10	0.51
2:AA:410:G:O2'	2:AA:411:G:OP2	2.27	0.51
2:AA:593:G:C6	2:AA:594:U:C4	2.99	0.51
2:AA:677:A:H4'	2:AA:2070:G:O2'	2.11	0.51
2:AA:685:A:H2'	2:AA:686:G:OP2	2.10	0.51
2:AA:689:A:C5	2:AA:690:G:C8	2.98	0.51
2:AA:697:C:C2	2:AA:698:C:C5	2.99	0.51
2:AA:815:C:O2'	2:AA:816:C:C5'	2.56	0.51
2:AA:838:C:C2'	2:AA:839:U:O5'	2.58	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:973:A:O2'	2:AA:974:G:H5''	2.09	0.51
2:AA:976:C:H2'	2:AA:976:C:O2	2.11	0.51
2:AA:987:G:C6	2:AA:988:A:C8	2.98	0.51
2:AA:1068:G:C4	2:AA:1069:A:N6	2.79	0.51
2:AA:1169:G:N1	2:AA:1180:C:N4	2.34	0.51
2:AA:1274:A:OP1	2:AA:1646:C:N4	2.44	0.51
2:AA:1310:G:C5	2:AA:1311:G:H1'	2.45	0.51
2:AA:1353:A:C6	2:AA:1354:A:C5	2.98	0.51
2:AA:1364:G:OP1	28:A4:3:LYS:HG2	2.11	0.51
2:AA:1382:G:H2'	2:AA:1383:C:C6	2.45	0.51
2:AA:1576:U:C6	2:AA:1577:C:C2	2.99	0.51
2:AA:1591:G:C5	2:AA:1592:C:N4	2.78	0.51
2:AA:1591:G:C4	2:AA:1592:C:C4	2.98	0.51
2:AA:1603:A:N3	2:AA:1604:C:H5	2.08	0.51
2:AA:1613:G:OP1	31:A7:5:TYR:CD2	2.64	0.51
2:AA:1636:C:O3'	2:AA:1760:A:O2'	2.29	0.51
2:AA:1702:G:C6	2:AA:1703:G:C8	2.98	0.51
2:AA:1729:A:N7	2:AA:1731:G:O6	2.44	0.51
2:AA:1841:U:C2	2:AA:1842:G:N7	2.78	0.51
2:AA:1904:G:C2'	2:AA:1905:C:H5'	2.39	0.51
2:AA:1959:G:C4	2:AA:1960:A:C8	2.99	0.51
2:AA:2074:U:H5''	2:AA:2075:U:P	2.50	0.51
2:AA:2074:U:HO2'	2:AA:2598:A:C4'	2.23	0.51
2:AA:2089:U:H2'	2:AA:2090:G:C8	2.32	0.51
2:AA:2116:G:H2'	2:AA:2117:A:H5''	1.92	0.51
2:AA:2243:U:O2	2:AA:2244:U:N1	2.44	0.51
2:AA:2331:G:N2	2:AA:2385:C:C5	2.76	0.51
2:AA:2354:G:H1'	27:A3:31:VAL:HG13	1.92	0.51
2:AA:2358:G:OP1	2:AA:2358:G:C8	2.63	0.51
2:AA:2501:C:O2	2:AA:2501:C:O4'	2.21	0.51
2:AA:2506:U:H5''	2:AA:2506:U:H6	1.75	0.51
2:AA:2633:G:H4'	2:AA:2812:G:OP1	2.11	0.51
2:AA:2688:U:O4	2:AA:2719:G:C3'	2.49	0.51
2:AA:2701:C:H3'	2:AA:2702:U:H5''	1.93	0.51
2:AA:2717:G:H2'	2:AA:2718:G:H5''	1.93	0.51
2:AA:2757:A:C2'	2:AA:2758:A:O5'	2.58	0.51
2:AA:2817:G:C6	2:AA:2818:G:C5	2.98	0.51
2:AA:2886:G:C6	2:AA:2887:U:C4	2.99	0.51
2:AA:2893:G:N3	2:AA:2893:G:C2'	2.73	0.51
3:AC:62:VAL:HG23	3:AC:195:ALA:HB2	1.93	0.51
3:AC:131:LEU:HD22	3:AC:136:LEU:HB2	1.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:121:ALA:HA	4:AD:129:LEU:CD1	2.38	0.51
5:AE:63:GLU:OE1	5:AE:64:GLY:N	2.43	0.51
5:AE:107:GLU:OE2	5:AE:110:ARG:NH1	2.43	0.51
5:AE:242:ASN:N	5:AE:243:PRO:HD2	2.25	0.51
6:AF:221:GLU:O	6:AF:222:ASP:C	2.51	0.51
7:AG:10:PHE:C	7:AG:12:GLU:N	2.67	0.51
7:AG:98:PHE:C	7:AG:104:PHE:HD2	2.18	0.51
9:AJ:89:LYS:CE	11:AL:59:THR:HB	2.39	0.51
10:AK:111:ASP:OD1	10:AK:114:LYS:N	2.44	0.51
11:AL:56:VAL:CG1	11:AL:57:VAL:N	2.74	0.51
11:AL:73:PRO:HG2	11:AL:78:LEU:CD1	2.40	0.51
11:AL:132:ALA:C	11:AL:137:ILE:HB	2.34	0.51
12:AM:15:ARG:CG	12:AM:43:ARG:HD2	2.41	0.51
13:AN:1:MET:N	13:AN:32:TYR:CG	2.77	0.51
15:AP:28:ILE:CG1	15:AP:62:GLU:OE2	2.59	0.51
16:AQ:63:SER:O	16:AQ:68:GLU:HG2	2.11	0.51
19:AT:56:ASN:ND2	19:AT:62:LYS:NZ	2.59	0.51
20:AU:6:LYS:HA	20:AU:9:LYS:HB2	1.92	0.51
23:AX:1:MET:N	23:AX:2:PRO:CD	2.74	0.51
23:AX:8:LEU:HD12	23:AX:9:VAL:N	2.26	0.51
25:A1:31:GLN:C	25:A1:35:ALA:HB2	2.36	0.51
25:A1:98:ILE:HA	25:A1:101:ARG:CG	2.41	0.51
26:A2:20:ILE:CG2	26:A2:67:LYS:CD	2.88	0.51
27:A3:26:PHE:N	27:A3:60:PHE:CD1	2.78	0.51
28:A4:21:VAL:CG1	28:A4:22:MET:N	2.63	0.51
30:A6:11:LYS:HE2	30:A6:26:LYS:CE	2.36	0.51
33:A9:11:CYS:SG	33:A9:11:CYS:C	2.94	0.51
34:BA:15:G:N3	34:BA:16:A:N7	2.57	0.51
34:BA:39:G:H2'	34:BA:40:C:O5'	2.11	0.51
34:BA:115:G:H4'	34:BA:116:A:O5'	2.10	0.51
34:BA:145:G:C6	34:BA:178:C:N4	2.79	0.51
34:BA:153:C:C2	34:BA:154:C:C5	2.99	0.51
34:BA:265:G:C2	34:BA:267:C:O4'	2.63	0.51
34:BA:313:A:C5	34:BA:314:C:N4	2.79	0.51
34:BA:386:C:O2'	34:BA:387:U:H5'	2.11	0.51
34:BA:421:U:O2	38:BF:127:ARG:NE	2.44	0.51
34:BA:648:A:C6	34:BA:649:G:N7	2.78	0.51
34:BA:706:A:O4'	46:BN:29:ILE:HD12	2.09	0.51
34:BA:962:C:O2	34:BA:1201:A:C2	2.64	0.51
34:BA:964:A:C2	34:BA:969:A:C1'	2.87	0.51
34:BA:979:C:N4	49:BQ:18:VAL:O	2.43	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1000:U:N3	34:BA:1041:A:C2	2.74	0.51
34:BA:1052:U:N3	34:BA:1207:G:N1	2.59	0.51
34:BA:1117:G:O5'	44:BL:104:ARG:NH1	2.44	0.51
34:BA:1284:C:C2	34:BA:1285:A:N7	2.79	0.51
34:BA:1483:A:C3'	34:BA:1484:C:C5'	2.89	0.51
34:BA:1508:G:H1	34:BA:1527:C:N4	2.08	0.51
35:BB:54:U:H6	35:BB:54:U:C5'	2.24	0.51
35:BB:64:A:N6	35:BB:65:G:O6	2.43	0.51
35:BC:35:A:N1	36:B1:61:U:O4	2.43	0.51
35:BC:59:U:H2'	35:BC:59:U:O2	2.11	0.51
35:BC:72:C:C4	35:BC:73:A:N6	2.79	0.51
37:BE:54:THR:O	37:BE:58:ILE:CG1	2.43	0.51
37:BE:69:LEU:CG	37:BE:162:ILE:HG22	2.41	0.51
37:BE:91:PRO:HA	37:BE:152:PHE:O	2.09	0.51
37:BE:140:HIS:ND1	37:BE:143:GLU:HG3	2.24	0.51
37:BE:212:GLN:HE22	37:BE:216:SER:N	2.09	0.51
38:BF:58:GLU:N	38:BF:65:ALA:HB3	2.24	0.51
38:BF:115:LEU:O	38:BF:116:VAL:C	2.54	0.51
39:BG:157:LEU:O	39:BG:160:GLN:N	2.43	0.51
40:BH:37:ARG:O	40:BH:38:GLN:HG3	2.11	0.51
41:BI:8:ILE:CG2	41:BI:87:ARG:O	2.58	0.51
42:BJ:15:ASP:OD1	42:BJ:17:VAL:CA	2.59	0.51
43:BK:45:ILE:HD11	43:BK:48:TYR:HB3	1.91	0.51
44:BL:16:ARG:HB3	44:BL:64:THR:HB	1.92	0.51
44:BL:101:PHE:H	44:BL:102:LEU:HD23	1.75	0.51
45:BM:7:LYS:HZ3	45:BM:71:LEU:HD21	1.76	0.51
47:BO:76:ASN:ND2	47:BO:77:LEU:N	2.58	0.51
48:BP:47:ASP:N	48:BP:47:ASP:OD1	2.43	0.51
48:BP:81:LEU:HD21	48:BP:88:ARG:HE	1.74	0.51
48:BP:91:ARG:HD2	48:BP:97:PRO:O	2.10	0.51
50:BR:59:MET:SD	50:BR:59:MET:C	2.94	0.51
51:BS:5:ARG:C	51:BS:6:LEU:CD1	2.80	0.51
51:BS:49:LEU:HD21	51:BS:51:VAL:HG23	1.93	0.51
52:BT:74:LEU:HD13	52:BT:75:ARG:CB	2.30	0.51
55:BW:13:LEU:HB2	55:BW:17:ARG:HH21	1.75	0.51
55:BW:28:ALA:O	55:BW:31:SER:OG	2.19	0.51
2:AA:10:G:O2'	2:AA:11:G:C5'	2.58	0.51
2:AA:25:U:C2	2:AA:515:A:N1	2.77	0.51
2:AA:51:G:O2'	2:AA:118:A:N6	2.42	0.51
2:AA:90:U:OP1	2:AA:90:U:C6	2.64	0.51
2:AA:121:G:C2'	2:AA:122:G:O5'	2.59	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:134:C:O2	2:AA:146:G:N2	2.43	0.51
2:AA:247:G:O6	32:A8:11:LYS:NZ	2.44	0.51
2:AA:248:G:N2	2:AA:2431:U:C5'	2.74	0.51
2:AA:299:A:C2	2:AA:322:A:N6	2.78	0.51
2:AA:319:C:H2'	2:AA:320:A:H8	1.76	0.51
2:AA:361:G:H2'	2:AA:362:U:C5	2.43	0.51
2:AA:442:G:C4'	6:AF:44:GLN:OE1	2.49	0.51
2:AA:470:A:N3	2:AA:471:A:H1'	2.24	0.51
2:AA:641:C:C5	2:AA:642:G:N3	2.79	0.51
2:AA:673:C:H5'	6:AF:82:GLN:HE22	1.75	0.51
2:AA:750:A:H4'	2:AA:1617:C:O2	2.11	0.51
2:AA:830:G:C8	2:AA:2448:A:C8	2.98	0.51
2:AA:842:G:C6	2:AA:843:G:C6	2.99	0.51
2:AA:961:C:HO2'	2:AA:962:G:P	2.33	0.51
2:AA:1011:G:O2'	2:AA:1013:C:C4'	2.59	0.51
2:AA:1055:G:N2	9:AI:28:LYS:HB3	2.26	0.51
2:AA:1091:G:N1	2:AA:1101:U:N3	2.58	0.51
2:AA:1156:A:OP1	25:A1:55:ARG:CZ	2.59	0.51
2:AA:1166:C:C2	2:AA:1184:G:N2	2.77	0.51
2:AA:1196:C:O4'	2:AA:1226:G:C2	2.63	0.51
2:AA:1197:G:C5	2:AA:1198:U:C5	2.98	0.51
2:AA:1248:G:OP1	25:A1:2:PRO:HA	2.11	0.51
2:AA:1272:A:C2	2:AA:1618:A:C2	2.99	0.51
2:AA:1322:A:C2'	2:AA:1323:U:C5'	2.84	0.51
2:AA:1348:G:O2'	2:AA:1349:A:C5'	2.58	0.51
2:AA:1379:A:H61	31:A7:10:ARG:NH1	2.08	0.51
2:AA:1429:G:C5	2:AA:1430:C:C4	2.99	0.51
2:AA:1568:G:P	4:AD:60:GLN:CA	2.98	0.51
2:AA:1582:C:N1	2:AA:1583:A:H1'	2.25	0.51
2:AA:1642:G:C2	2:AA:1643:G:C8	2.99	0.51
2:AA:1794:U:C4	2:AA:1825:A:N6	2.79	0.51
2:AA:1799:G:N2	4:AD:153:LEU:HD11	2.24	0.51
2:AA:1995:U:C5	2:AA:1996:C:C4	2.99	0.51
2:AA:2013:A:N6	2:AA:2014:A:C2	2.79	0.51
2:AA:2067:G:N2	2:AA:2443:C:C2	2.71	0.51
2:AA:2116:G:OP2	3:AC:126:LYS:HB3	2.09	0.51
2:AA:2294:C:N3	2:AA:2295:C:C5	2.78	0.51
2:AA:2300:G:C2	2:AA:2301:C:C2	2.99	0.51
2:AA:2488:A:N6	2:AA:2489:G:C6	2.79	0.51
2:AA:2511:U:C4	2:AA:2512:C:C4	2.99	0.51
2:AA:2606:C:C2'	2:AA:2607:G:O5'	2.58	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2697:G:O2'	2:AA:2698:U:O5'	2.29	0.51
2:AA:2714:G:H5''	2:AA:2714:G:C8	2.44	0.51
2:AA:2738:A:C2	2:AA:2739:U:O2	2.63	0.51
2:AA:2742:C:O2	2:AA:2742:C:H2'	2.09	0.51
2:AA:2745:C:N4	2:AA:2759:G:H1	2.04	0.51
2:AA:2830:G:C2	2:AA:2883:A:C2	2.98	0.51
3:AC:193:ILE:CG2	3:AC:226:PRO:HB2	2.41	0.51
4:AD:132:GLU:HB2	4:AD:186:LYS:HA	1.93	0.51
5:AE:42:ALA:H	5:AE:189:MET:HE1	1.75	0.51
5:AE:45:LYS:HZ1	5:AE:302:GLY:C	2.19	0.51
5:AE:70:VAL:HG13	5:AE:296:VAL:C	2.34	0.51
5:AE:99:VAL:HG12	5:AE:100:TRP:N	2.26	0.51
5:AE:105:HIS:ND1	5:AE:108:LEU:CG	2.73	0.51
6:AF:5:ILE:CG1	6:AF:16:VAL:HG23	2.40	0.51
6:AF:85:LYS:HD2	6:AF:85:LYS:N	2.25	0.51
6:AF:103:ASN:O	6:AF:106:GLU:HB2	2.11	0.51
6:AF:202:THR:HG22	6:AF:203:ALA:H	1.75	0.51
6:AF:206:ASN:HA	6:AF:210:ALA:HB2	1.92	0.51
7:AG:56:ARG:HD2	7:AG:65:GLU:CG	2.41	0.51
7:AG:103:ASN:CA	7:AG:104:PHE:CE1	2.94	0.51
8:AH:86:LEU:HD22	8:AH:87:GLU:N	2.25	0.51
8:AH:93:TYR:CE2	8:AH:106:VAL:HG13	2.43	0.51
8:AH:102:LEU:HD21	8:AH:114:ILE:CG2	2.40	0.51
8:AH:124:VAL:O	8:AH:124:VAL:HG13	2.11	0.51
9:AI:68:GLN:O	9:AI:69:ASN:CG	2.54	0.51
13:AN:1:MET:O	13:AN:33:ALA:HB3	2.10	0.51
15:AP:48:ASN:ND2	15:AP:122:PHE:CG	2.77	0.51
16:AQ:68:GLU:O	16:AQ:69:TYR:C	2.53	0.51
16:AQ:97:VAL:HG12	16:AQ:98:GLU:H	1.75	0.51
17:AR:53:ASP:HA	17:AR:56:ARG:CG	2.28	0.51
18:AS:59:VAL:HG21	18:AS:66:GLU:H	1.75	0.51
20:AU:31:LEU:CD2	20:AU:113:GLU:OE2	2.59	0.51
21:AV:13:LYS:HZ1	21:AV:33:ALA:CA	1.99	0.51
21:AV:15:ASP:O	21:AV:36:ARG:NH2	2.34	0.51
21:AV:78:PRO:O	21:AV:79:ILE:CG1	2.58	0.51
25:A1:95:LEU:O	25:A1:96:ALA:C	2.52	0.51
26:A2:14:VAL:CG1	26:A2:15:SER:N	2.68	0.51
26:A2:35:LEU:O	26:A2:60:VAL:HG13	2.11	0.51
26:A2:39:PHE:CZ	26:A2:41:GLY:C	2.88	0.51
30:A6:42:PRO:HB2	30:A6:44:ALA:CB	2.39	0.51
34:BA:38:G:C4	34:BA:397:A:N1	2.79	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:46:G:C2	34:BA:366:C:C2	2.99	0.51
34:BA:55:A:H2'	34:BA:56:U:C6	2.40	0.51
34:BA:60:A:O2'	34:BA:61:G:P	2.69	0.51
34:BA:61:G:C5	34:BA:62:U:C4	2.98	0.51
34:BA:69:G:H1	34:BA:99:C:N4	2.09	0.51
34:BA:113:G:H2'	34:BA:114:U:C6	2.40	0.51
34:BA:142:G:H2'	34:BA:143:A:H8	1.74	0.51
34:BA:148:G:C2	34:BA:175:C:N3	2.79	0.51
34:BA:290:C:O5'	34:BA:290:C:H6	1.92	0.51
34:BA:318:G:C2'	34:BA:319:G:C5'	2.89	0.51
34:BA:395:C:O2	34:BA:396:G:C8	2.64	0.51
34:BA:495:U:O2	34:BA:495:U:C2'	2.54	0.51
34:BA:529:G:C6	47:BO:49:ASN:CG	2.89	0.51
34:BA:562:C:C2'	34:BA:562:C:O2	2.59	0.51
34:BA:582:U:C2	34:BA:583:A:C8	2.99	0.51
34:BA:712:A:O2'	34:BA:713:G:C5'	2.58	0.51
34:BA:742:G:C2'	34:BA:743:U:H5'	2.41	0.51
34:BA:750:G:N3	50:BR:23:GLY:C	2.69	0.51
34:BA:888:G:H3'	34:BA:889:A:H8	1.75	0.51
34:BA:901:A:H2'	34:BA:902:G:O5'	2.11	0.51
34:BA:962:C:C4	34:BA:963:G:C5	2.99	0.51
34:BA:970:C:H42	48:BP:126:LYS:HZ3	1.54	0.51
34:BA:1087:G:N3	34:BA:1088:G:C8	2.79	0.51
34:BA:1159:U:C5'	34:BA:1160:G:OP1	2.48	0.51
34:BA:1163:C:C4	34:BA:1174:G:N1	2.78	0.51
34:BA:1182:G:H5'	34:BA:1184:G:H5'	1.92	0.51
34:BA:1197:G:OP1	34:BA:1197:G:H3'	2.09	0.51
34:BA:1294:G:H2'	34:BA:1295:G:C8	2.46	0.51
34:BA:1343:G:H2'	34:BA:1344:C:H6	1.74	0.51
34:BA:1376:U:O2	34:BA:1377:A:N7	2.44	0.51
34:BA:1378:C:N3	34:BA:1379:G:O4'	2.43	0.51
34:BA:1412:C:N4	34:BA:1488:G:H1	2.05	0.51
34:BA:1415:G:C6	34:BA:1486:G:C6	2.99	0.51
34:BA:1451:A:C5'	34:BA:1452:C:C5	2.87	0.51
35:BB:22:G:N3	35:BB:23:A:N7	2.58	0.51
35:BB:59:U:O2	35:BB:59:U:H2'	2.11	0.51
35:BC:1:G:C2	35:BC:2:C:C6	2.98	0.51
35:BC:5:A:H2'	35:BC:6:U:O5'	2.10	0.51
36:B1:69:A:N3	36:B1:69:A:H2'	2.26	0.51
37:BE:25:ASN:ND2	37:BE:27:LYS:H	2.09	0.51
37:BE:63:MET:HG2	37:BE:64:ARG:H	1.75	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:218:ALA:O	37:BE:219:VAL:C	2.54	0.51
38:BF:192:THR:O	38:BF:192:THR:HG22	2.11	0.51
39:BG:80:GLU:O	39:BG:83:SER:N	2.44	0.51
39:BG:148:VAL:HG23	39:BG:181:MET:HE2	1.92	0.51
40:BH:45:PHE:CE1	40:BH:47:LYS:CE	2.93	0.51
40:BH:109:ILE:HG23	40:BH:110:LEU:HD23	1.93	0.51
42:BJ:10:ARG:CG	42:BJ:10:ARG:NH1	2.72	0.51
42:BJ:126:ASP:HA	42:BJ:129:GLU:HB2	1.93	0.51
43:BK:46:LYS:CB	43:BK:63:LEU:O	2.55	0.51
43:BK:49:GLU:OE1	43:BK:60:ARG:HB3	2.11	0.51
43:BK:114:THR:C	43:BK:116:LYS:N	2.67	0.51
44:BL:3:GLN:HA	44:BL:20:ARG:HG2	1.91	0.51
46:BN:26:ASN:O	46:BN:27:ASN:CB	2.59	0.51
46:BN:66:LEU:CD2	46:BN:97:ALA:HB1	2.41	0.51
47:BO:97:ARG:HD2	47:BO:98:TYR:HE1	1.74	0.51
47:BO:126:LYS:NZ	47:BO:128:ALA:CB	2.58	0.51
48:BP:16:ASP:CA	48:BP:19:LEU:HG	2.38	0.51
49:BQ:23:ARG:HD3	49:BQ:28:GLY:O	2.11	0.51
51:BS:3:LYS:O	51:BS:21:VAL:HA	2.11	0.51
52:BT:3:LYS:O	52:BT:4:LYS:C	2.52	0.51
55:BW:53:LEU:HD21	55:BW:92:LEU:HD11	1.93	0.51
56:BX:6:ARG:O	56:BX:12:LYS:HE2	2.11	0.51
1:AB:14:U:O2'	1:AB:107:U:O2'	2.20	0.51
1:AB:105:G:H2'	1:AB:106:G:H8	1.76	0.51
2:AA:6:A:H4'	12:AM:4:ALA:O	2.11	0.51
2:AA:137(A):G:N3	2:AA:137(A):G:C4'	2.73	0.51
2:AA:161:U:P	2:AA:161:U:C6	3.04	0.51
2:AA:270:A:N6	2:AA:370:G:C8	2.79	0.51
2:AA:270(J):G:H2'	2:AA:270(J):G:N3	2.25	0.51
2:AA:288:C:N4	2:AA:289:A:H1'	2.26	0.51
2:AA:311:A:N3	2:AA:311:A:C2'	2.71	0.51
2:AA:332:A:N7	2:AA:335:C:C4	2.79	0.51
2:AA:425:G:C2	2:AA:426:C:C5	2.98	0.51
2:AA:440:G:H3'	20:AU:3:GLN:HE21	1.75	0.51
2:AA:529:A:O2'	2:AA:530:G:P	2.69	0.51
2:AA:542:C:N4	2:AA:552:G:H1	2.08	0.51
2:AA:587:C:O2'	2:AA:588:U:OP1	2.27	0.51
2:AA:612:G:N2	2:AA:617:G:C6	2.79	0.51
2:AA:636:G:H2'	14:AO:109:LEU:CD2	2.41	0.51
2:AA:830:G:N9	2:AA:2448:A:N7	2.58	0.51
2:AA:906:G:N2	2:AA:907:U:C1'	2.74	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:969:U:N3	2:AA:970:C:C5	2.79	0.51
2:AA:1022:G:H5''	12:AM:56:LYS:HZ3	1.73	0.51
2:AA:1129:A:N1	2:AA:2570:G:C1'	2.73	0.51
2:AA:1176:G:H2'	2:AA:1177:A:H5'	1.92	0.51
2:AA:1259:G:C5	2:AA:1260:G:N7	2.79	0.51
2:AA:1268:A:N9	2:AA:2013:A:N6	2.58	0.51
2:AA:1339:G:O4'	2:AA:1393:A:C2	2.64	0.51
2:AA:1395:A:O2'	2:AA:1397:U:C5	2.64	0.51
2:AA:1429:G:C2	2:AA:1568:G:N1	2.79	0.51
2:AA:1480:G:N1	2:AA:1513:C:C2	2.79	0.51
2:AA:1535:U:O4'	2:AA:1538:G:N2	2.31	0.51
2:AA:1703:G:O2'	34:BA:1429:C:C4'	2.44	0.51
2:AA:1754:C:C4	2:AA:2717:G:H5'	2.46	0.51
2:AA:1814:G:N2	2:AA:1815:A:H62	2.08	0.51
2:AA:1856:G:H2'	2:AA:1857:G:O5'	2.11	0.51
2:AA:1892:C:N3	2:AA:1893:C:C5	2.79	0.51
2:AA:1914:C:O2	2:AA:1914:C:C2'	2.58	0.51
2:AA:1951:U:O2	2:AA:1953:A:O5'	2.29	0.51
2:AA:1956:U:O2	2:AA:1956:U:C3'	2.58	0.51
2:AA:1995:U:C6	2:AA:1995:U:C3'	2.94	0.51
2:AA:2007:C:C2'	2:AA:2008:C:H5'	2.37	0.51
2:AA:2123:G:O2'	3:AC:133:PRO:CA	2.57	0.51
2:AA:2218:G:O2'	4:AD:146:LYS:HD2	2.11	0.51
2:AA:2327:A:O2'	2:AA:2328:A:O4'	2.22	0.51
2:AA:2349:G:C2'	2:AA:2350:C:H5''	2.41	0.51
2:AA:2492:U:H2'	2:AA:2492:U:O2	2.11	0.51
2:AA:2523:G:O4'	2:AA:2765:A:N7	2.44	0.51
2:AA:2532:G:N2	2:AA:2662:A:C6	2.79	0.51
2:AA:2573:C:H6	2:AA:2573:C:C3'	2.18	0.51
2:AA:2619:C:C5'	5:AE:247:ARG:O	2.59	0.51
2:AA:2666:C:C3'	2:AA:2667:C:H5'	2.40	0.51
2:AA:2690:C:O5'	2:AA:2690:C:C6	2.53	0.51
2:AA:2856:C:N4	2:AA:2862:G:H1	2.08	0.51
3:AC:62:VAL:CG1	3:AC:163:PHE:HD2	2.24	0.51
3:AC:131:LEU:CD2	3:AC:136:LEU:HB2	2.40	0.51
3:AC:139:ASN:CG	3:AC:162:GLU:OE2	2.53	0.51
3:AC:163:PHE:HE1	3:AC:199:HIS:CD2	2.29	0.51
4:AD:129:LEU:HD23	4:AD:133:ASN:HD22	1.75	0.51
5:AE:196:GLY:CA	5:AE:268:LEU:O	2.36	0.51
5:AE:205:THR:C	5:AE:206:LYS:HG3	2.31	0.51
6:AF:51:TYR:O	6:AF:55:ARG:HG2	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:55:ARG:HG3	6:AF:56:THR:OG1	2.11	0.51
6:AF:107:ARG:O	6:AF:110:ALA:CB	2.57	0.51
6:AF:207:LEU:C	6:AF:209:GLY:H	2.15	0.51
6:AF:219:ASN:H	6:AF:222:ASP:HB2	1.76	0.51
6:AF:241:ALA:O	6:AF:244:ALA:CB	2.57	0.51
8:AH:10:ILE:CG2	8:AH:14:VAL:HG11	2.40	0.51
8:AH:112:VAL:HB	8:AH:151:ARG:CZ	2.41	0.51
8:AH:145:ALA:O	8:AH:148:ARG:N	2.44	0.51
8:AH:168:VAL:O	8:AH:169:ARG:NE	2.44	0.51
10:AK:29:PHE:CE2	10:AK:30:LEU:HD11	2.45	0.51
11:AL:24:VAL:HG12	11:AL:35:ILE:CG2	2.34	0.51
11:AL:77:PHE:CD2	11:AL:80:LYS:NZ	2.76	0.51
11:AL:96:ILE:HD13	11:AL:138:GLU:OE2	2.10	0.51
11:AL:99:LYS:HD2	11:AL:99:LYS:N	2.25	0.51
11:AL:104:GLN:O	11:AL:107:GLU:CG	2.54	0.51
12:AM:10:VAL:CB	12:AM:36:VAL:HG22	2.40	0.51
12:AM:24:SER:CB	12:AM:86:MET:CE	2.86	0.51
12:AM:94:GLY:C	12:AM:98:PHE:CD1	2.89	0.51
13:AN:9:LYS:N	13:AN:9:LYS:CD	2.74	0.51
14:AO:59:GLU:CD	14:AO:60:GLU:OE1	2.54	0.51
15:AP:41:THR:O	21:AV:116:VAL:CG1	2.55	0.51
16:AQ:70:GLY:C	16:AQ:71:TRP:HE3	2.19	0.51
20:AU:33:GLU:OE1	20:AU:34:GLU:HG3	2.11	0.51
20:AU:51:LEU:HD22	20:AU:52:ARG:HG3	1.92	0.51
20:AU:77:VAL:HG11	20:AU:91:LEU:HD22	1.92	0.51
22:AW:59:ILE:O	22:AW:60:GLN:C	2.54	0.51
23:AX:33:GLN:OE1	23:AX:34:GLU:N	2.44	0.51
25:A1:10:ARG:CA	25:A1:13:ARG:HH12	2.23	0.51
25:A1:57:PHE:CD2	25:A1:60:LEU:HD13	2.46	0.51
26:A2:21:ARG:HB2	26:A2:95:ILE:HD13	1.92	0.51
26:A2:70:TYR:O	26:A2:71:ILE:O	2.28	0.51
28:A4:59:PHE:C	28:A4:61:LYS:N	2.69	0.51
29:A5:23:HIS:N	29:A5:23:HIS:ND1	2.59	0.51
29:A5:34:PRO:HD2	29:A5:35:GLN:H	1.75	0.51
34:BA:61:G:C5	34:BA:62:U:N3	2.79	0.51
34:BA:96:G:C2	34:BA:97:G:C4	2.99	0.51
34:BA:245:C:C2	34:BA:284:G:N1	2.78	0.51
34:BA:254:G:N2	52:BT:16:GLN:NE2	2.59	0.51
34:BA:264:U:O2'	52:BT:63:ARG:CG	2.59	0.51
34:BA:275:G:HO2'	34:BA:276:G:H5'	1.76	0.51
34:BA:308:C:H2'	34:BA:308:C:O2	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:360:A:N1	34:BA:361:G:C2	2.79	0.51
34:BA:406:G:N2	34:BA:407:G:C5	2.79	0.51
34:BA:483:C:N4	34:BA:484:G:C2	2.79	0.51
34:BA:538:G:OP2	47:BO:115:LYS:CB	2.55	0.51
34:BA:538:G:OP1	47:BO:113:ARG:CD	2.59	0.51
34:BA:593:G:H2'	34:BA:594:G:C5'	2.40	0.51
34:BA:913:A:H4'	34:BA:914:A:O5'	2.11	0.51
34:BA:1001:A:N1	34:BA:1040:U:C4	2.76	0.51
34:BA:1060:C:H5''	45:BM:51:ARG:HD3	1.91	0.51
34:BA:1112:C:H6	34:BA:1112:C:O5'	1.93	0.51
34:BA:1169:A:H2'	34:BA:1171:G:H5'	1.92	0.51
34:BA:1392:G:N2	34:BA:1502:A:H8	2.08	0.51
34:BA:1401:G:N7	34:BA:1402:C:C5	2.78	0.51
34:BA:1492:A:N7	34:BA:1493:A:N3	2.59	0.51
34:BA:1539:C:H2'	34:BA:1540:U:C5'	2.38	0.51
35:BB:5:A:N6	35:BB:68:U:H3	2.09	0.51
35:BC:44:A:N1	35:BC:45:G:C2	2.79	0.51
35:BC:47:U:O4	35:BC:49:C:H4'	2.10	0.51
35:BC:71:G:H2'	35:BC:72:C:C5'	2.38	0.51
37:BE:16:HIS:HA	37:BE:204:ASN:CB	2.41	0.51
37:BE:44:LEU:O	37:BE:47:THR:HB	2.09	0.51
37:BE:59:GLU:CA	37:BE:221:LEU:HD11	2.38	0.51
37:BE:74:LYS:CG	37:BE:76:GLN:HB2	2.40	0.51
37:BE:103:THR:O	37:BE:104:ASN:CB	2.59	0.51
38:BF:95:THR:O	38:BF:95:THR:OG1	2.27	0.51
38:BF:123:GLN:O	38:BF:124:ILE:C	2.53	0.51
38:BF:164:ARG:HG3	38:BF:164:ARG:NH1	2.26	0.51
38:BF:191:THR:C	38:BF:193:TYR:N	2.66	0.51
39:BG:4:TYR:CG	39:BG:5:ILE:N	2.78	0.51
39:BG:100:ARG:HH11	39:BG:100:ARG:HG2	1.76	0.51
39:BG:124:GLY:C	39:BG:126:ILE:H	2.17	0.51
41:BI:24:GLU:HG3	41:BI:25:ILE:N	2.25	0.51
41:BI:26:ILE:HG22	41:BI:30:LEU:CD1	2.38	0.51
42:BJ:69:VAL:CB	42:BJ:104:LEU:HD21	2.40	0.51
43:BK:102:ARG:O	43:BK:106:GLY:N	2.43	0.51
44:BL:15:ALA:CB	44:BL:76:ALA:CB	2.89	0.51
45:BM:50:ILE:HG22	45:BM:51:ARG:O	2.11	0.51
46:BN:54:ARG:CG	46:BN:54:ARG:NH1	2.68	0.51
47:BO:79:GLU:CB	47:BO:80:HIS:ND1	2.74	0.51
47:BO:91:LYS:HD2	47:BO:91:LYS:O	2.10	0.51
48:BP:22:ILE:HB	48:BP:25:ILE:CD1	2.41	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:42:ALA:O	48:BP:44:ARG:N	2.42	0.51
48:BP:92:HIS:CD2	48:BP:98:VAL:HG21	2.44	0.51
49:BQ:9:LYS:HD3	49:BQ:9:LYS:C	2.36	0.51
50:BR:67:LEU:HB3	50:BR:78:TYR:HE1	1.76	0.51
52:BT:29:HIS:HB3	52:BT:32:TYR:H	1.76	0.51
53:BU:37:VAL:HG12	53:BU:41:LYS:HD2	1.91	0.51
1:AB:33:G:H2'	1:AB:34:U:C5	2.41	0.51
1:AB:85:G:C2	1:AB:92:G:N3	2.79	0.51
2:AA:123:G:N1	2:AA:124:G:C2	2.79	0.51
2:AA:184:C:C2	2:AA:185:U:C5	2.99	0.51
2:AA:270(Z):U:OP1	2:AA:270(Z):U:C4'	2.58	0.51
2:AA:295:G:C2	2:AA:344:G:C2	2.92	0.51
2:AA:330:A:H4'	2:AA:1210:A:N6	2.25	0.51
2:AA:371:A:HO2'	2:AA:372:G:P	2.30	0.51
2:AA:388:G:H5'	2:AA:389:G:OP2	2.11	0.51
2:AA:464:U:C4	2:AA:465:G:N7	2.79	0.51
2:AA:465:G:C5	2:AA:466:A:C6	2.99	0.51
2:AA:594:U:H5''	32:A8:61:MET:HE3	1.93	0.51
2:AA:721:C:C2	2:AA:722:A:N7	2.79	0.51
2:AA:783:A:C5'	4:AD:230:ASN:ND2	2.74	0.51
2:AA:783:A:O3'	2:AA:2589:A:P	2.69	0.51
2:AA:826:U:N3	2:AA:832:G:N1	2.58	0.51
2:AA:840:C:H4'	2:AA:1192:G:C1'	2.41	0.51
2:AA:862:G:N2	2:AA:863:A:H1'	2.26	0.51
2:AA:871:U:H2'	2:AA:872:A:C8	2.46	0.51
2:AA:899:A:N6	2:AA:900:A:C6	2.79	0.51
2:AA:975:G:C6	2:AA:976:C:C5	2.99	0.51
2:AA:1020:A:H2	2:AA:1141:U:OP2	1.93	0.51
2:AA:1025:G:H8	2:AA:1134:G:C2'	2.24	0.51
2:AA:1063:G:C4	2:AA:1064:C:C5	2.98	0.51
2:AA:1422:G:N2	2:AA:1576:U:C2	2.79	0.51
2:AA:1450:C:H2'	2:AA:1451:C:H4'	1.92	0.51
2:AA:1479:G:C6	2:AA:1514:U:N3	2.77	0.51
2:AA:1492:G:C2	2:AA:1493:C:C4	2.98	0.51
2:AA:1527:G:C2	2:AA:1544:C:N3	2.75	0.51
2:AA:1591:G:C2	2:AA:1592:C:C2	2.99	0.51
2:AA:1634:A:H3'	2:AA:1634:A:C8	2.46	0.51
2:AA:1668:A:N6	2:AA:1674:G:C2	2.79	0.51
2:AA:1668:A:N3	2:AA:1670:C:C4	2.79	0.51
2:AA:1780:A:P	2:AA:1782:C:P	3.09	0.51
2:AA:1793:C:C2	2:AA:1794:U:C6	2.99	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1841:U:O4	2:AA:1842:G:O6	2.29	0.51
2:AA:1857:G:C6	2:AA:1884:A:N6	2.79	0.51
2:AA:1935:G:N3	2:AA:1962:C:C4	2.79	0.51
2:AA:1951:U:C2	2:AA:1953:A:C5'	2.94	0.51
2:AA:2015:A:H8	2:AA:2016:U:C5	2.28	0.51
2:AA:2033:A:HO2'	2:AA:2034:U:P	2.34	0.51
2:AA:2043:C:C5	2:AA:2777:G:C1'	2.80	0.51
2:AA:2063:C:C2'	2:AA:2064:C:O5'	2.59	0.51
2:AA:2278:A:C6	2:AA:2279:G:C5	2.99	0.51
2:AA:2305:A:H1'	7:AG:129:ASP:OD1	2.10	0.51
2:AA:2454:G:H2'	2:AA:2455:G:H5'	1.93	0.51
2:AA:2460:U:H2'	2:AA:2461:C:C6	2.46	0.51
2:AA:2628:C:C1'	2:AA:2781:A:H2'	2.40	0.51
2:AA:2713:A:C3'	2:AA:2714:G:C5'	2.88	0.51
2:AA:2834:G:C6	2:AA:2879:C:C2	2.99	0.51
2:AA:2853:C:HO2'	2:AA:2854:G:H5'	1.76	0.51
2:AA:2885:C:O2	2:AA:2885:C:H2'	2.10	0.51
3:AC:5:LYS:O	3:AC:6:ARG:CG	2.59	0.51
3:AC:19:ILE:CG2	3:AC:225:ASN:HB2	2.41	0.51
3:AC:214:VAL:HG23	3:AC:224:ILE:CD1	2.41	0.51
4:AD:213:LYS:CG	4:AD:215:LYS:HB2	2.40	0.51
5:AE:41:PHE:CD1	5:AE:193:PHE:CE1	2.99	0.51
6:AF:36:ARG:O	6:AF:38:ALA:N	2.44	0.51
6:AF:201:SER:O	6:AF:202:THR:C	2.54	0.51
8:AH:10:ILE:HG23	8:AH:14:VAL:HB	1.93	0.51
8:AH:153:PRO:HA	8:AH:160:GLY:HA3	1.93	0.51
9:AJ:71:ILE:CG1	11:AL:62:GLU:N	2.71	0.51
10:AK:6:LEU:CD2	10:AK:14:LYS:NZ	2.74	0.51
10:AK:111:ASP:HB3	10:AK:114:LYS:HG3	1.90	0.51
12:AM:139:LEU:HD13	12:AM:139:LEU:N	2.26	0.51
14:AO:128:GLY:O	14:AO:129:ALA:C	2.54	0.51
16:AQ:92:ALA:O	16:AQ:93:GLN:C	2.52	0.51
20:AU:49:GLU:CD	20:AU:97:ARG:NH1	2.69	0.51
21:AV:16:GLU:H	21:AV:36:ARG:HH12	1.53	0.51
21:AV:168:VAL:C	21:AV:169:VAL:HG23	2.36	0.51
22:AW:9:ARG:CZ	22:AW:59:ILE:CG1	2.89	0.51
22:AW:24:LYS:O	22:AW:25:THR:C	2.54	0.51
23:AX:5:LYS:CB	23:AX:36:VAL:HG12	2.41	0.51
24:A0:55:ALA:HB2	24:A0:79:LEU:HD11	1.93	0.51
24:A0:105:ARG:NE	24:A0:105:ARG:HA	2.25	0.51
25:A1:66:ASN:O	25:A1:67:ALA:C	2.54	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:61:VAL:HA	26:A2:98:ILE:CG1	2.33	0.51
28:A4:18:GLY:H	28:A4:33:VAL:CB	2.24	0.51
29:A5:6:VAL:HG13	29:A5:7:PRO:HD2	1.93	0.51
29:A5:11:THR:CG2	29:A5:16:ARG:HG2	2.41	0.51
29:A5:52:TYR:O	29:A5:53:ASP:CG	2.54	0.51
34:BA:10:A:O2'	34:BA:11:G:C5'	2.59	0.51
34:BA:20:U:O2	34:BA:21:G:C4	2.64	0.51
34:BA:106:C:O2'	34:BA:107:G:H5'	2.11	0.51
34:BA:194:C:C3'	34:BA:195:A:H5''	2.41	0.51
34:BA:280:C:O2'	52:BT:38:ARG:HD3	2.10	0.51
34:BA:316:G:N3	34:BA:317:G:C8	2.79	0.51
34:BA:327:A:O3'	34:BA:328:C:O4'	2.29	0.51
34:BA:361:G:O6	34:BA:362:G:N1	2.43	0.51
34:BA:518:C:N4	35:BB:35:A:H2	2.08	0.51
34:BA:616:G:N1	34:BA:617:G:N7	2.59	0.51
34:BA:659:U:O4	34:BA:746:A:N1	2.44	0.51
34:BA:665:A:N7	34:BA:733:A:N3	2.58	0.51
34:BA:665:A:O4'	34:BA:733:A:H1'	2.11	0.51
34:BA:687:A:N7	34:BA:701:C:C4	2.79	0.51
34:BA:745:C:OP1	34:BA:851:G:O2'	2.17	0.51
34:BA:757:U:C1'	34:BA:879:C:H1'	2.40	0.51
34:BA:767:A:H1'	34:BA:1525:G:H1'	1.92	0.51
34:BA:877:C:C2'	34:BA:878:G:H5'	2.41	0.51
34:BA:887:G:C6	34:BA:888:G:C6	2.98	0.51
34:BA:984:C:N3	34:BA:985:C:C5	2.79	0.51
34:BA:1261:A:H3'	34:BA:1262:C:C6	2.45	0.51
34:BA:1280:A:C8	45:BM:41:PRO:CD	2.94	0.51
34:BA:1298:C:H1'	34:BA:1299:A:C2	2.46	0.51
34:BA:1520:G:O2'	34:BA:1521:G:O5'	2.29	0.51
35:BC:9:A:H5'	35:BC:46:G:O2'	2.11	0.51
35:BC:30:G:N1	35:BC:40:C:N4	2.20	0.51
35:BC:36:A:H61	36:B1:60:A:N6	2.08	0.51
35:BC:56:C:C4	35:BC:57:G:C2	2.99	0.51
36:B1:31:G:H2'	36:B1:32:G:H8	1.76	0.51
37:BE:18:GLY:HA2	37:BE:41:ILE:HA	1.92	0.51
37:BE:69:LEU:HD22	37:BE:91:PRO:O	2.11	0.51
37:BE:136:VAL:N	37:BE:139:LYS:HZ1	2.09	0.51
39:BG:59:ARG:HH12	39:BG:62:GLN:HB2	1.76	0.51
39:BG:77:ASN:O	39:BG:80:GLU:CB	2.58	0.51
39:BG:78:LEU:HD21	39:BG:96:LEU:HB3	1.93	0.51
39:BG:133:VAL:HG21	39:BG:138:TYR:CD1	2.45	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:72:GLN:HG3	40:BH:77:PRO:HD3	1.92	0.51
41:BI:9:VAL:HG12	41:BI:59:TYR:O	2.11	0.51
43:BK:6:ILE:O	43:BK:10:LEU:HG	2.11	0.51
44:BL:17:VAL:HG22	44:BL:63:ILE:HG21	1.91	0.51
44:BL:66:ARG:C	44:BL:73:GLN:NE2	2.64	0.51
46:BN:19:ALA:CB	46:BN:80:VAL:HG11	2.38	0.51
47:BO:24:VAL:HG13	47:BO:98:TYR:CZ	2.46	0.51
48:BP:34:LEU:CD2	48:BP:39:ILE:HG13	2.26	0.51
48:BP:37:THR:HG21	48:BP:56:LEU:HD22	1.92	0.51
48:BP:91:ARG:HB2	48:BP:98:VAL:HG13	1.93	0.51
50:BR:41:GLU:OE2	50:BR:41:GLU:CA	2.58	0.51
52:BT:50:LYS:HG2	52:BT:51:TYR:N	2.24	0.51
53:BU:30:ASP:OD1	53:BU:32:ARG:CB	2.58	0.51
54:BV:36:ARG:C	54:BV:38:SER:N	2.69	0.51
54:BV:70:LYS:O	54:BV:71:LEU:C	2.54	0.51
1:AB:43:C:H1'	7:AG:47:GLN:CD	2.36	0.51
1:AB:52:A:N3	1:AB:53:A:H1'	2.26	0.51
2:AA:13:A:C2'	2:AA:14:A:OP2	2.58	0.51
2:AA:38:A:C2'	2:AA:39:C:C6	2.91	0.51
2:AA:61:G:C6	2:AA:62:C:N4	2.79	0.51
2:AA:73:A:H5'	22:AW:50:ARG:NH2	2.25	0.51
2:AA:135:G:C2	2:AA:145:G:C6	2.99	0.51
2:AA:135:G:N3	2:AA:145:G:C6	2.79	0.51
2:AA:144:C:C5'	19:AT:36:GLU:CD	2.81	0.51
2:AA:272:G:O2'	2:AA:273:G:H5'	2.11	0.51
2:AA:286:C:C6	2:AA:286:C:C3'	2.93	0.51
2:AA:322:A:H1'	2:AA:341:G:C8	2.45	0.51
2:AA:422:A:C2	2:AA:423:A:C4	2.98	0.51
2:AA:539:G:H2'	2:AA:540:G:C8	2.46	0.51
2:AA:562:U:C5	2:AA:2036:C:C4'	2.94	0.51
2:AA:564:C:O2'	2:AA:1252:G:C6	2.56	0.51
2:AA:592:G:C6	2:AA:593:G:N7	2.79	0.51
2:AA:641:C:C5	2:AA:642:G:C2	2.99	0.51
2:AA:643:A:C8	2:AA:643:A:C3'	2.94	0.51
2:AA:652:C:H2'	2:AA:653:A:OP1	2.11	0.51
2:AA:676:A:C2'	2:AA:677:A:H5'	2.40	0.51
2:AA:735:A:C2'	2:AA:736:C:H5'	2.39	0.51
2:AA:784:A:C6	2:AA:792:G:N9	2.78	0.51
2:AA:818:G:N2	2:AA:1190:G:C2	2.79	0.51
2:AA:886:C:C1'	2:AA:887:A:C8	2.94	0.51
2:AA:955:C:H2'	2:AA:956:G:H5'	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1007:C:C4'	12:AM:86:MET:O	2.59	0.51
2:AA:1029:A:C2'	2:AA:1030:G:H5'	2.41	0.51
2:AA:1044:G:N2	2:AA:1111:A:C1'	2.74	0.51
2:AA:1084:A:H5''	9:AI:37:VAL:CA	2.41	0.51
2:AA:1111:A:C5'	2:AA:1112:G:OP1	2.54	0.51
2:AA:1132:A:N7	2:AA:1133:U:N3	2.57	0.51
2:AA:1173:G:H22	2:AA:1175:U:C3'	2.24	0.51
2:AA:1212:G:N1	2:AA:1236:G:C6	2.79	0.51
2:AA:1264:G:N7	2:AA:1265:A:C8	2.79	0.51
2:AA:1272:A:C8	2:AA:1618:A:H1'	2.45	0.51
2:AA:1296:G:OP1	2:AA:2709:G:O2'	2.21	0.51
2:AA:1510:A:C3'	2:AA:1511:A:C8	2.93	0.51
2:AA:1530:G:O6	2:AA:1540:G:O6	2.28	0.51
2:AA:1717:G:N7	2:AA:1743:G:N1	2.59	0.51
2:AA:1757:U:O4	2:AA:1762:A:H2	1.94	0.51
2:AA:1901:A:O2'	2:AA:1902:C:H5'	2.11	0.51
2:AA:1915:U:H2'	2:AA:1915:U:O2	2.10	0.51
2:AA:1918:A:OP2	2:AA:1918:A:C2'	2.58	0.51
2:AA:2000:G:C4	2:AA:2001:A:C8	2.99	0.51
2:AA:2042:A:C2'	2:AA:2043:C:H5'	2.40	0.51
2:AA:2119:A:C2	2:AA:2147:G:OP1	2.64	0.51
2:AA:2126:A:N1	2:AA:2127:G:C2	2.79	0.51
2:AA:2246:G:N2	2:AA:2247:A:C6	2.79	0.51
2:AA:2278:A:C1'	15:AP:19:TYR:HD2	2.24	0.51
2:AA:2282:G:N2	2:AA:2427:C:N3	2.55	0.51
2:AA:2324:C:O2'	2:AA:2325:G:OP1	2.18	0.51
2:AA:2348:U:C5'	32:A8:42:ARG:NH2	2.74	0.51
2:AA:2354:G:C4'	27:A3:31:VAL:CG2	2.89	0.51
2:AA:2393:A:H5'	32:A8:13:ARG:NH2	2.26	0.51
2:AA:2458:G:O2'	2:AA:2459:A:N7	2.44	0.51
2:AA:2555:U:H2'	2:AA:2556:C:O4'	2.12	0.51
2:AA:2612:C:H5''	29:A5:2:ALA:CB	2.41	0.51
2:AA:2687:U:N3	2:AA:2688:U:C6	2.79	0.51
2:AA:2709:G:C2'	2:AA:2710:C:C5'	2.88	0.51
2:AA:2785:C:O2'	5:AE:100:TRP:HD1	1.92	0.51
4:AD:131:LEU:CD1	4:AD:183:ILE:CG2	2.89	0.51
6:AF:60:SER:HB3	6:AF:69:HIS:HB3	1.92	0.51
6:AF:206:ASN:O	6:AF:207:LEU:HG	2.11	0.51
7:AG:49:PRO:HB2	7:AG:72:LYS:O	2.10	0.51
7:AG:75:LEU:C	7:AG:80:ALA:HB2	2.36	0.51
7:AG:134:LEU:C	7:AG:135:VAL:CG2	2.84	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:142:ALA:CB	7:AG:151:ILE:HD11	2.41	0.51
8:AH:37:HIS:CB	8:AH:40:MET:SD	2.99	0.51
8:AH:51:VAL:C	8:AH:52:THR:O	2.53	0.51
8:AH:98:GLN:C	8:AH:99:GLY:O	2.52	0.51
9:AI:20:GLU:OE1	9:AJ:53:GLN:OE1	2.29	0.51
9:AJ:85:LEU:HD12	11:AL:57:VAL:HB	1.91	0.51
10:AK:64:ASN:N	10:AK:64:ASN:HD22	2.08	0.51
10:AK:95:SER:O	10:AK:98:ILE:N	2.44	0.51
12:AM:15:ARG:C	12:AM:44:ALA:HA	2.36	0.51
12:AM:83:ILE:O	12:AM:86:MET:N	2.41	0.51
13:AN:48:PRO:O	13:AN:49:GLY:C	2.53	0.51
14:AO:65:ASP:OD1	14:AO:68:GLU:CD	2.54	0.51
14:AO:113:GLN:O	14:AO:115:ARG:HD2	2.11	0.51
16:AQ:16:ALA:C	16:AQ:18:THR:H	2.18	0.51
16:AQ:33:ARG:O	16:AQ:47:LEU:HA	2.11	0.51
16:AQ:87:LEU:H	16:AQ:87:LEU:CD2	2.24	0.51
17:AR:30:HIS:O	17:AR:31:PHE:HD2	1.91	0.51
19:AT:56:ASN:ND2	19:AT:62:LYS:CG	2.74	0.51
20:AU:20:HIS:O	20:AU:23:VAL:CB	2.58	0.51
20:AU:27:LEU:O	20:AU:28:SER:O	2.29	0.51
20:AU:32:ARG:O	20:AU:33:GLU:C	2.52	0.51
20:AU:52:ARG:HB2	20:AU:95:ASN:ND2	2.26	0.51
20:AU:53:GLY:O	20:AU:56:ALA:HB2	2.10	0.51
21:AV:46:GLN:O	21:AV:47:SER:C	2.54	0.51
22:AW:56:ILE:O	22:AW:59:ILE:HG22	2.11	0.51
23:AX:20:LYS:HA	23:AX:23:LEU:CG	2.41	0.51
24:A0:50:HIS:CE1	24:A0:54:LEU:CD1	2.93	0.51
24:A0:97:VAL:O	24:A0:98:LEU:HD23	2.11	0.51
25:A1:8:ILE:HD13	25:A1:9:VAL:CG2	2.40	0.51
31:A7:32:ALA:O	31:A7:35:ARG:HB2	2.11	0.51
33:A9:11:CYS:SG	33:A9:11:CYS:O	2.68	0.51
34:BA:41:G:O2'	34:BA:42:G:C5'	2.60	0.51
34:BA:43:C:C5'	51:BS:12:LYS:CB	2.88	0.51
34:BA:128:G:O2'	34:BA:129:U:H5'	2.11	0.51
34:BA:242:C:C2	34:BA:285:G:C2	2.98	0.51
34:BA:261:U:H5	55:BW:79:ARG:NH2	2.08	0.51
34:BA:319:G:H5'	34:BA:1468:A:H4'	1.92	0.51
34:BA:333:G:H2'	34:BA:334:C:C6	2.46	0.51
34:BA:340:U:O2'	34:BA:341:C:C5'	2.58	0.51
34:BA:673:G:N2	34:BA:674:G:N2	2.58	0.51
34:BA:675:A:H2'	34:BA:676:A:C8	2.46	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:687:A:C2	34:BA:704:A:C5	2.99	0.51
34:BA:750:G:H1'	50:BR:23:GLY:N	2.26	0.51
34:BA:779:C:H4'	46:BN:121:PRO:O	2.11	0.51
34:BA:841:U:H3'	34:BA:848:C:C5'	2.36	0.51
34:BA:944:G:C3'	34:BA:945:G:C5'	2.90	0.51
34:BA:978:A:H62	34:BA:1361:G:N2	2.07	0.51
34:BA:1072:G:C6	34:BA:1104:G:N1	2.78	0.51
34:BA:1128:C:H2'	34:BA:1130:A:C8	2.45	0.51
34:BA:1157:A:C8	34:BA:1181:G:N2	2.79	0.51
34:BA:1212:U:O2'	34:BA:1213:A:O5'	2.28	0.51
34:BA:1240:U:H1'	42:BJ:42:ILE:HD11	1.93	0.51
34:BA:1248:A:H2'	44:BL:70:LYS:HZ1	1.76	0.51
34:BA:1252:A:C6	34:BA:1253:G:N7	2.79	0.51
34:BA:1256:A:C2	34:BA:1258:G:N1	2.79	0.51
34:BA:1342:C:H4'	44:BL:125:TYR:HD1	1.75	0.51
34:BA:1351:U:H4'	42:BJ:33:ASP:OD2	2.11	0.51
34:BA:1539:C:C2'	34:BA:1540:U:C5'	2.88	0.51
35:BC:31:A:H5'	35:BC:32:C:OP2	2.11	0.51
36:B1:12:U:O5'	36:B1:12:U:H6	1.94	0.51
37:BE:42:ILE:HG23	37:BE:43:ASP:H	1.72	0.51
37:BE:50:GLU:CG	37:BE:200:ILE:HB	2.41	0.51
37:BE:80:ILE:HG21	37:BE:211:ILE:CG2	2.40	0.51
38:BF:16:ARG:HH21	38:BF:184:TYR:H	1.52	0.51
38:BF:160:ALA:HB3	38:BF:162:GLN:O	2.11	0.51
38:BF:196:LEU:HD23	38:BF:196:LEU:N	2.25	0.51
39:BG:13:ARG:NH1	39:BG:38:TYR:CE1	2.78	0.51
39:BG:99:SER:O	39:BG:140:VAL:HG23	2.10	0.51
39:BG:100:ARG:CZ	39:BG:137:SER:HA	2.41	0.51
41:BI:14:LEU:HA	41:BI:18:GLN:NE2	2.26	0.51
42:BJ:69:VAL:HG22	42:BJ:134:ALA:C	2.36	0.51
43:BK:46:LYS:CE	43:BK:64:LYS:HA	2.41	0.51
44:BL:15:ALA:HB3	44:BL:76:ALA:C	2.36	0.51
44:BL:32:ASP:OD1	44:BL:35:GLU:N	2.43	0.51
44:BL:49:PRO:HD3	44:BL:78:LYS:HD3	1.93	0.51
45:BM:60:ARG:O	45:BM:61:GLU:CB	2.57	0.51
47:BO:102:ARG:NH2	47:BO:110:VAL:HA	2.26	0.51
47:BO:115:LYS:O	47:BO:117:ARG:HG3	2.10	0.51
47:BO:117:ARG:CZ	47:BO:124:LYS:CA	2.88	0.51
48:BP:69:GLU:HA	48:BP:72:ALA:HB3	1.91	0.51
50:BR:15:PHE:O	50:BR:16:ALA:O	2.29	0.51
51:BS:1:MET:CE	51:BS:3:LYS:HE2	2.41	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:63:ILE:HG23	55:BW:77:ALA:CB	2.34	0.51
1:AB:89:G:N3	1:AB:89(A):A:C6	2.79	0.50
2:AA:76:C:H4'	22:AW:55:ARG:NE	2.25	0.50
2:AA:84:A:C5'	2:AA:85:G:OP1	2.59	0.50
2:AA:115:C:O2'	2:AA:116:C:C5'	2.59	0.50
2:AA:249:C:O3'	32:A8:8:LYS:HG2	2.11	0.50
2:AA:284:U:H2'	2:AA:285:C:C5	2.47	0.50
2:AA:296:C:H2'	2:AA:297:C:H6	1.76	0.50
2:AA:330:A:O4'	2:AA:1210:A:N6	2.44	0.50
2:AA:446:G:P	25:A1:3:ARG:HB3	2.51	0.50
2:AA:448:U:H2'	2:AA:448:U:O2	2.11	0.50
2:AA:574:C:C4'	2:AA:575:A:H5''	2.41	0.50
2:AA:604:G:N2	2:AA:624:C:C2	2.77	0.50
2:AA:685:A:C8	2:AA:774:A:N6	2.79	0.50
2:AA:752:A:N6	2:AA:1781:C:H1'	2.26	0.50
2:AA:835:A:N6	2:AA:836:G:C6	2.79	0.50
2:AA:836:G:C6	2:AA:837:C:C4	2.99	0.50
2:AA:870:A:H4'	15:AP:23:ILE:HG23	1.92	0.50
2:AA:874:G:N1	2:AA:903:C:N4	2.13	0.50
2:AA:955:C:H2'	2:AA:956:G:O4'	2.11	0.50
2:AA:1174:A:N6	2:AA:1177:A:C2	2.79	0.50
2:AA:1249:U:H3'	2:AA:1249:U:C6	2.46	0.50
2:AA:1296:G:C6	2:AA:1297:C:N4	2.79	0.50
2:AA:1346:G:O2'	2:AA:1347:G:O5'	2.29	0.50
2:AA:1364:G:N9	2:AA:1368:G:N2	2.60	0.50
2:AA:1596:A:O2'	2:AA:1597:A:H5'	2.11	0.50
2:AA:1704:G:C2	2:AA:1705:G:C1'	2.93	0.50
2:AA:1823:G:C2	2:AA:1824:G:C8	2.99	0.50
2:AA:1832:C:C5	2:AA:1833:U:C5	2.99	0.50
2:AA:1846:G:C2	2:AA:1895:C:C4	2.99	0.50
2:AA:1935:G:C4	2:AA:1962:C:C5	2.99	0.50
2:AA:1984:G:C4	2:AA:1985:G:C8	2.99	0.50
2:AA:1992:G:C6	2:AA:1997:G:C5	2.98	0.50
2:AA:2014:A:H2	2:AA:2613:U:H3	1.57	0.50
2:AA:2088:G:O6	2:AA:2089:U:C4	2.64	0.50
2:AA:2096:U:N3	2:AA:2097:C:H5	2.09	0.50
2:AA:2098:U:O4	2:AA:2191:G:O6	2.29	0.50
2:AA:2127:G:O6	2:AA:2174:C:OP1	2.29	0.50
2:AA:2130:U:C5	2:AA:2131:G:N2	2.75	0.50
2:AA:2135:A:C8	2:AA:2152:G:H8	2.29	0.50
2:AA:2184:G:O2'	2:AA:2185:C:H5'	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2217:G:H8	2:AA:2217:G:OP2	1.94	0.50
2:AA:2291:U:H5'	2:AA:2380:C:O2	2.11	0.50
2:AA:2346:A:C2'	2:AA:2347:C:OP1	2.59	0.50
2:AA:2407:G:N2	2:AA:2408:U:N3	2.58	0.50
2:AA:2419:U:OP1	32:A8:41:ILE:CD1	2.59	0.50
2:AA:2457:U:H2'	2:AA:2458:G:C4'	2.41	0.50
2:AA:2476:A:H8	2:AA:2476:A:H3'	1.75	0.50
2:AA:2481:G:H2'	2:AA:2482:G:OP2	2.10	0.50
2:AA:2567:G:C4	2:AA:2568:C:C5	2.99	0.50
2:AA:2666:C:H2'	2:AA:2667:C:H5'	1.93	0.50
2:AA:2689:U:C5'	2:AA:2690:C:H5'	2.31	0.50
2:AA:2706:G:C2'	2:AA:2707:G:O5'	2.54	0.50
2:AA:2728:U:H2'	2:AA:2729:G:C8	2.45	0.50
2:AA:2745:C:O2'	8:AH:142:GLU:HG3	2.11	0.50
2:AA:2840:C:C4	2:AA:2841:C:C4	2.99	0.50
4:AD:176:ALA:O	4:AD:177:SER:C	2.54	0.50
4:AD:184:LEU:HB2	4:AD:187:CYS:SG	2.51	0.50
5:AE:71:THR:OG1	5:AE:299:SER:HB2	2.11	0.50
5:AE:83:LEU:HD11	5:AE:178:LEU:HA	1.93	0.50
5:AE:180:ILE:O	5:AE:183:ASP:CB	2.49	0.50
5:AE:204:VAL:O	5:AE:303:PRO:HB3	2.10	0.50
5:AE:235:ILE:HG23	5:AE:236:GLY:N	2.25	0.50
6:AF:225:PRO:O	6:AF:230:GLY:C	2.53	0.50
6:AF:240:LEU:CA	6:AF:243:VAL:HG23	2.35	0.50
7:AG:57:THR:HG22	7:AG:58:VAL:H	1.77	0.50
8:AH:21:ASN:HB3	8:AH:38:PRO:HB3	1.93	0.50
8:AH:90:GLY:O	8:AH:93:TYR:O	2.29	0.50
9:AJ:15:VAL:HG22	9:AJ:48:ALA:C	2.36	0.50
12:AM:5:GLU:CD	12:AM:6:PHE:N	2.68	0.50
12:AM:45:VAL:CA	12:AM:131:THR:O	2.57	0.50
13:AN:3:GLN:HG2	13:AN:4:GLN:CB	2.41	0.50
14:AO:141:GLU:O	14:AO:145:LEU:HD13	2.11	0.50
15:AP:86:ARG:CB	15:AP:121:ASP:O	2.50	0.50
17:AR:53:ASP:O	17:AR:56:ARG:HD2	2.10	0.50
18:AS:32:ALA:O	18:AS:35:ILE:N	2.45	0.50
20:AU:48:VAL:HG11	20:AU:96:VAL:CG1	2.31	0.50
20:AU:102:ASP:O	20:AU:108:ARG:HB3	2.11	0.50
21:AV:24:TYR:HA	21:AV:29:ASN:OD1	2.11	0.50
21:AV:47:SER:O	21:AV:49:THR:OG1	2.28	0.50
21:AV:148:THR:HB	21:AV:166:LEU:H	1.77	0.50
24:A0:36:THR:HB	24:A0:40:LYS:HB2	1.92	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A0:37:THR:HA	24:A0:111:LEU:HA	1.92	0.50
24:A0:47:PHE:C	24:A0:49:ASP:N	2.65	0.50
24:A0:73:VAL:C	24:A0:77:ARG:NH1	2.68	0.50
26:A2:19:VAL:O	26:A2:21:ARG:NH1	2.44	0.50
27:A3:42:GLY:O	27:A3:43:THR:HG22	2.11	0.50
27:A3:43:THR:OG1	27:A3:75:GLY:O	2.27	0.50
28:A4:19:GLN:N	28:A4:19:GLN:CD	2.69	0.50
29:A5:33:CYS:CB	29:A5:34:PRO:CD	2.88	0.50
33:A9:6:SER:C	33:A9:8:LYS:HE3	2.36	0.50
34:BA:9:G:OP2	40:BH:121:LYS:HD2	2.11	0.50
34:BA:22:G:H4'	34:BA:885:G:N9	2.26	0.50
34:BA:150:C:C2'	34:BA:151:A:O4'	2.58	0.50
34:BA:173:U:C5'	34:BA:197:A:C4'	2.89	0.50
34:BA:190(E):U:H3	52:BT:63:ARG:HB3	1.76	0.50
34:BA:246:A:O2'	34:BA:247:G:O4'	2.23	0.50
34:BA:271:C:H2'	34:BA:272:C:O5'	2.10	0.50
34:BA:296:U:O2	34:BA:302:G:C2	2.65	0.50
34:BA:304:U:H2'	34:BA:305:G:C8	2.46	0.50
34:BA:321:A:N7	34:BA:328:C:C6	2.79	0.50
34:BA:409:G:OP1	39:BG:24:GLU:N	2.43	0.50
34:BA:618:C:H3'	34:BA:620:C:OP2	2.11	0.50
34:BA:683:G:N2	46:BN:39:PRO:HD3	2.25	0.50
34:BA:686:U:O4	34:BA:703:G:H1'	2.11	0.50
34:BA:761:G:H5''	52:BT:103:GLY:N	2.27	0.50
34:BA:828:A:N1	34:BA:859:A:C4'	2.74	0.50
34:BA:948:C:O2	34:BA:949:A:C8	2.64	0.50
34:BA:974:A:O4'	34:BA:974:A:OP1	2.30	0.50
34:BA:1011:G:H2'	34:BA:1012:U:C5'	2.41	0.50
34:BA:1016:A:N6	34:BA:1017:G:C2	2.79	0.50
34:BA:1196:U:C5'	34:BA:1197:G:O5'	2.58	0.50
34:BA:1227:A:O2'	48:BP:115:LYS:CG	2.59	0.50
34:BA:1269:A:C8	34:BA:1270:C:O4'	2.46	0.50
34:BA:1308:U:C4'	48:BP:99:ARG:HH12	2.24	0.50
34:BA:1320:C:H2'	34:BA:1321:C:O4'	2.12	0.50
34:BA:1419:G:H2'	34:BA:1420:C:C5	2.46	0.50
34:BA:1493:A:O2'	34:BA:1494:G:H5'	2.11	0.50
34:BA:1500:A:OP1	34:BA:1505:G:P	2.69	0.50
34:BA:1501:C:OP1	34:BA:1508:G:H4'	2.11	0.50
35:BB:35:A:C5	36:B1:65:U:N3	2.63	0.50
35:BC:8:U:C1'	35:BC:48:C:HO2'	2.23	0.50
35:BC:56:C:H42	35:BC:57:G:N2	2.10	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:67:THR:CA	38:BF:102:ASN:O	2.43	0.50
39:BG:60:GLU:HG2	39:BG:203:VAL:HG23	1.93	0.50
40:BH:7:GLU:OE1	40:BH:112:LEU:HD21	2.11	0.50
41:BI:11:ASN:ND2	41:BI:13:ASN:HB2	2.24	0.50
42:BJ:30:ILE:O	42:BJ:31:MET:O	2.29	0.50
43:BK:15:ASN:O	43:BK:16:ALA:C	2.53	0.50
43:BK:18:ARG:HH11	43:BK:18:ARG:CG	2.24	0.50
44:BL:5:TYR:CZ	44:BL:18:PHE:CZ	2.99	0.50
44:BL:111:ARG:HG2	44:BL:112:LYS:O	2.11	0.50
45:BM:6:ILE:O	45:BM:71:LEU:HD13	2.11	0.50
45:BM:26:ALA:C	45:BM:28:ARG:N	2.68	0.50
46:BN:53:SER:OG	46:BN:54:ARG:CD	2.59	0.50
48:BP:24:GLY:CA	48:BP:66:LEU:HD13	2.41	0.50
48:BP:91:ARG:NH1	48:BP:96:LEU:CD1	2.70	0.50
48:BP:91:ARG:NH1	48:BP:97:PRO:HG2	2.25	0.50
49:BQ:40:CYS:O	49:BQ:41:ARG:C	2.52	0.50
50:BR:54:ARG:O	50:BR:55:GLY:C	2.54	0.50
52:BT:11:VAL:HG22	52:BT:20:THR:OG1	2.12	0.50
52:BT:86:GLU:O	52:BT:87:LYS:C	2.53	0.50
55:BW:105:SER:O	55:BW:106:ALA:C	2.52	0.50
1:AB:58:A:H1'	7:AG:140:ARG:NH2	2.26	0.50
1:AB:104:A:H2'	1:AB:105:G:O4'	2.12	0.50
2:AA:1:G:H2'	2:AA:2:G:C8	2.46	0.50
2:AA:21:A:H2'	2:AA:22:C:H6	1.76	0.50
2:AA:26:G:H21	2:AA:513:A:N6	2.09	0.50
2:AA:81:G:H2'	2:AA:82:G:C5'	2.41	0.50
2:AA:122:G:N2	2:AA:130:C:C1'	2.74	0.50
2:AA:126:A:N7	2:AA:127:A:C2	2.80	0.50
2:AA:155:C:O2'	2:AA:161:U:OP1	2.25	0.50
2:AA:261:G:C4'	2:AA:608:A:C2	2.89	0.50
2:AA:270:A:C8	2:AA:270(A):A:H1'	2.46	0.50
2:AA:281:G:H2'	2:AA:281:G:N3	2.26	0.50
2:AA:317:G:N1	2:AA:318:C:N3	2.59	0.50
2:AA:380:U:O2'	28:A4:15:ILE:HB	2.12	0.50
2:AA:391:G:C4	2:AA:411:G:N2	2.79	0.50
2:AA:442:G:C2	2:AA:444:C:C5	3.00	0.50
2:AA:503:A:C2	2:AA:505:A:N6	2.79	0.50
2:AA:624:C:H2'	2:AA:657:U:OP1	2.11	0.50
2:AA:666:G:C2'	2:AA:667:U:O5'	2.59	0.50
2:AA:724:U:O2	2:AA:725:G:O4'	2.29	0.50
2:AA:976:C:O2	2:AA:977:G:H8	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1027:A:C2	2:AA:2488:A:H5'	2.46	0.50
2:AA:1082:U:C6	2:AA:1082:U:C3'	2.95	0.50
2:AA:1189:A:C3'	2:AA:1190:G:C5'	2.89	0.50
2:AA:1189:A:N7	2:AA:1190:G:C8	2.79	0.50
2:AA:1223:C:C2	2:AA:1227:A:C2	2.99	0.50
2:AA:1239:G:H1'	2:AA:1240:U:C5	2.46	0.50
2:AA:1376:C:C2'	2:AA:1377:G:C8	2.91	0.50
2:AA:1379:A:N6	31:A7:10:ARG:HH22	2.06	0.50
2:AA:1472:A:H2'	2:AA:1473:G:O5'	2.11	0.50
2:AA:1483:G:C6	2:AA:1484:G:N7	2.80	0.50
2:AA:1486:A:H2'	2:AA:1487:G:C8	2.46	0.50
2:AA:1522:G:C2	2:AA:1523:U:C5	2.99	0.50
2:AA:1529:A:H5''	2:AA:1530:G:H8	1.76	0.50
2:AA:1554:A:C2'	2:AA:1555:G:N7	2.75	0.50
2:AA:1629:U:O2	2:AA:2698:U:C5'	2.60	0.50
2:AA:1780:A:C2'	2:AA:1781:C:OP1	2.59	0.50
2:AA:1850:G:C4	2:AA:1851:U:C6	2.99	0.50
2:AA:1894:C:C2	2:AA:1895:C:H5	2.28	0.50
2:AA:1936:A:N9	2:AA:1940:U:C4	2.79	0.50
2:AA:1999:C:C2	2:AA:2000:G:C8	2.99	0.50
2:AA:2009:G:H2'	2:AA:2010:G:O5'	2.11	0.50
2:AA:2012:G:C5'	18:AS:98:LYS:NZ	2.74	0.50
2:AA:2022:U:H1'	2:AA:2034:U:C2	2.45	0.50
2:AA:2110:G:C6	2:AA:2179:C:N3	2.79	0.50
2:AA:2228:G:C6	2:AA:2229:C:C2	2.99	0.50
2:AA:2250:G:C8	15:AP:102:ARG:HA	2.41	0.50
2:AA:2255:G:C5	2:AA:2256:G:C8	3.00	0.50
2:AA:2276:G:O2'	2:AA:2277:G:O5'	2.15	0.50
2:AA:2349:G:H2'	2:AA:2350:C:H5''	1.93	0.50
2:AA:2357:U:C2'	2:AA:2358:G:O5'	2.59	0.50
2:AA:2396:G:OP1	28:A4:28:ARG:NE	2.43	0.50
2:AA:2466:C:OP1	33:A9:6:SER:CB	2.58	0.50
2:AA:2507:C:C6	2:AA:2508:G:N7	2.79	0.50
2:AA:2528:U:H5''	33:A9:31:LYS:HE2	1.93	0.50
2:AA:2568:C:O2	2:AA:2569:G:O4'	2.29	0.50
2:AA:2653:U:O2	2:AA:2668:G:C2	2.65	0.50
2:AA:2776:A:N3	2:AA:2778:A:N7	2.59	0.50
2:AA:2789:C:N3	2:AA:2790:A:C2	2.80	0.50
3:AC:148:ASN:CG	3:AC:151:GLU:HB2	2.37	0.50
3:AC:163:PHE:CB	3:AC:171:ILE:HD11	2.36	0.50
4:AD:71:ASP:HB3	4:AD:119:PRO:HD2	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:166:LYS:C	4:AD:167:GLU:OE2	2.54	0.50
5:AE:43:GLY:O	5:AE:44:TYR:HD1	1.93	0.50
5:AE:107:GLU:HB3	5:AE:110:ARG:NH1	2.26	0.50
5:AE:213:PRO:CB	5:AE:235:ILE:HG12	2.41	0.50
5:AE:265:ASN:ND2	5:AE:265:ASN:O	2.44	0.50
5:AE:269:ILE:HB	5:AE:270:ASP:CG	2.36	0.50
5:AE:307:LEU:O	5:AE:309:PRO:CD	2.49	0.50
6:AF:80:VAL:CG1	6:AF:81:PRO:CD	2.84	0.50
9:AI:29:PHE:O	9:AI:33:ALA:HB3	2.11	0.50
10:AK:6:LEU:O	10:AK:14:LYS:NZ	2.44	0.50
10:AK:66:LYS:HA	10:AK:69:LYS:CB	2.40	0.50
10:AK:117:LEU:HD22	10:AK:121:ILE:HD11	1.93	0.50
12:AM:45:VAL:HG13	12:AM:131:THR:CG2	2.41	0.50
12:AM:77:GLY:O	12:AM:80:LYS:N	2.43	0.50
13:AN:81:GLU:C	13:AN:82:ASN:OD1	2.54	0.50
14:AO:67:ARG:HD3	14:AO:112:GLY:HA3	1.93	0.50
14:AO:116:HIS:O	14:AO:117:GLU:C	2.55	0.50
14:AO:141:GLU:O	14:AO:141:GLU:OE1	2.29	0.50
17:AR:49:LEU:HD23	17:AR:50:GLU:HA	1.94	0.50
20:AU:27:LEU:CA	20:AU:98:VAL:O	2.59	0.50
20:AU:33:GLU:O	20:AU:34:GLU:C	2.54	0.50
24:A0:23:ASN:CG	24:A0:24:GLN:N	2.68	0.50
24:A0:43:GLU:C	24:A0:45:ARG:N	2.62	0.50
24:A0:83:ILE:HG22	24:A0:86:ARG:NE	2.24	0.50
25:A1:61:TRP:O	25:A1:65:ILE:HB	2.11	0.50
25:A1:109:LEU:O	25:A1:109:LEU:HD23	2.11	0.50
26:A2:59:GLU:CD	26:A2:99:GLN:CA	2.65	0.50
26:A2:74:TYR:OH	26:A2:90:PHE:CE1	2.65	0.50
27:A3:37:LEU:HB2	27:A3:68:VAL:HA	1.92	0.50
29:A5:58:LEU:O	29:A5:59:ALA:HB2	2.10	0.50
30:A6:48:VAL:O	30:A6:50:PHE:HD1	1.92	0.50
31:A7:4:THR:H	31:A7:6:GLN:NE2	2.07	0.50
32:A8:41:ILE:C	32:A8:43:GLY:N	2.67	0.50
33:A9:15:LYS:O	33:A9:25:VAL:HG13	2.11	0.50
34:BA:29:G:C4'	34:BA:296:U:OP1	2.59	0.50
34:BA:44:G:C2	34:BA:45:U:O4'	2.64	0.50
34:BA:130:A:H5'	52:BT:63:ARG:HH21	1.76	0.50
34:BA:244:U:O4	34:BA:893:C:N3	2.43	0.50
34:BA:314:C:O2'	34:BA:353:A:N1	2.39	0.50
34:BA:355:C:H1'	34:BA:388:G:H2'	1.93	0.50
34:BA:425:G:O2'	34:BA:426:G:H5'	2.10	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:458:C:H3'	34:BA:459:G:H8	1.75	0.50
34:BA:597:G:H2'	34:BA:598:U:C5'	2.41	0.50
34:BA:598:U:C2	34:BA:599:C:C5	2.99	0.50
34:BA:616:G:OP2	39:BG:141:ARG:NH2	2.40	0.50
34:BA:667:G:H1	34:BA:739:C:N4	2.03	0.50
34:BA:702:A:C2'	34:BA:703:G:OP1	2.59	0.50
34:BA:754:C:P	50:BR:72:ARG:HH12	2.33	0.50
34:BA:950:U:O5'	34:BA:950:U:H6	1.94	0.50
34:BA:978:A:N1	34:BA:1318:A:C6	2.80	0.50
34:BA:1002:G:C4	34:BA:1003:G:H1'	2.46	0.50
34:BA:1030:C:C2	34:BA:30(A):G:N7	2.80	0.50
34:BA:1038:C:C2	34:BA:1039:C:C5	2.99	0.50
34:BA:1051:C:C4	34:BA:1052:U:C4	2.99	0.50
34:BA:1181:G:C5	34:BA:1182:G:C2	2.99	0.50
34:BA:1206:G:H4'	38:BF:194:GLY:N	2.27	0.50
34:BA:1213:A:H2'	34:BA:1215:G:C8	2.46	0.50
34:BA:1227:A:O2'	48:BP:115:LYS:CD	2.59	0.50
34:BA:1296:C:H5''	34:BA:1297:C:OP2	2.11	0.50
34:BA:1297:C:H5''	34:BA:1298:C:OP1	2.11	0.50
34:BA:1405:G:H1'	34:BA:1519:A:C5'	2.39	0.50
34:BA:1428:A:C6	34:BA:1429:C:N4	2.79	0.50
34:BA:1511:G:O2'	34:BA:1512:U:H5'	2.10	0.50
35:BB:2:C:H2'	35:BB:3:G:H5'	1.93	0.50
35:BC:4:G:C4	35:BC:5:A:C8	2.98	0.50
35:BC:63:C:HO2'	35:BC:64:A:C4'	2.24	0.50
37:BE:7:VAL:CG2	37:BE:8:LYS:H	2.11	0.50
37:BE:42:ILE:HD11	37:BE:202:PRO:C	2.36	0.50
37:BE:44:LEU:HD12	37:BE:44:LEU:N	2.25	0.50
37:BE:77:ALA:O	37:BE:80:ILE:CA	2.59	0.50
37:BE:162:ILE:O	37:BE:185:ILE:HG13	2.10	0.50
38:BF:33:LEU:HD13	49:BQ:53:LEU:HA	1.94	0.50
38:BF:117:ALA:C	38:BF:119:ARG:N	2.66	0.50
39:BG:15:GLU:HG2	39:BG:63:LYS:HB2	1.93	0.50
39:BG:78:LEU:CD2	39:BG:96:LEU:HB3	2.42	0.50
39:BG:119:GLN:O	39:BG:123:HIS:CD2	2.64	0.50
40:BH:71:LEU:HD21	40:BH:115:VAL:HG12	1.91	0.50
41:BI:31:GLU:O	41:BI:33:TYR:N	2.44	0.50
41:BI:45:LEU:HD21	41:BI:59:TYR:CD1	2.46	0.50
42:BJ:46:ALA:O	42:BJ:47:CYS:C	2.54	0.50
44:BL:16:ARG:C	44:BL:63:ILE:HG23	2.36	0.50
44:BL:32:ASP:HB3	44:BL:35:GLU:CB	2.17	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:8:LEU:HD21	45:BM:96:ILE:HG23	1.93	0.50
48:BP:4:ILE:O	48:BP:4:ILE:HG22	2.10	0.50
48:BP:77:ASN:C	48:BP:80:ARG:HD3	2.35	0.50
48:BP:120:LYS:O	48:BP:121:LYS:HD2	2.11	0.50
49:BQ:44:LEU:CG	49:BQ:45:ARG:N	2.65	0.50
51:BS:10:GLY:HA2	51:BS:14:ASN:ND2	2.26	0.50
51:BS:21:VAL:HG22	51:BS:36:ILE:HD11	1.90	0.50
51:BS:81:ARG:HG2	51:BS:83:GLU:CG	2.40	0.50
52:BT:87:LYS:O	52:BT:88:TYR:C	2.50	0.50
54:BV:34:TRP:O	54:BV:36:ARG:N	2.44	0.50
55:BW:45:GLN:CA	55:BW:91:LEU:HD13	2.41	0.50
1:AB:23:G:O2'	1:AB:26:A:N6	2.44	0.50
1:AB:33:G:C4	1:AB:34:U:C5	3.00	0.50
1:AB:61:G:C2	1:AB:62:C:C5	2.98	0.50
1:AB:70:C:C2	1:AB:71:C:C6	2.99	0.50
2:AA:7:G:OP1	12:AM:102:ARG:NH1	2.45	0.50
2:AA:92:G:O2'	2:AA:93:C:C5'	2.58	0.50
2:AA:104:U:OP2	2:AA:105:C:H5	1.94	0.50
2:AA:108:U:C2	2:AA:109:G:C8	2.99	0.50
2:AA:133:C:C2	2:AA:134:C:C5	2.98	0.50
2:AA:214:G:C2	2:AA:215:G:C2	2.97	0.50
2:AA:217:G:C2'	2:AA:218:A:H5'	2.21	0.50
2:AA:234:C:H2'	2:AA:235:U:H5'	1.93	0.50
2:AA:363(B):G:H2'	2:AA:363(C):G:H8	1.77	0.50
2:AA:568:U:O2	2:AA:570:G:H8	1.87	0.50
2:AA:675:A:N3	2:AA:2443:C:O2'	2.44	0.50
2:AA:686:G:OP1	31:A7:11:LYS:CD	2.59	0.50
2:AA:781:A:H5'	2:AA:782:A:OP1	2.11	0.50
2:AA:910:A:H1'	2:AA:2264:C:O2'	2.12	0.50
2:AA:950:G:C6	2:AA:968:G:C6	2.99	0.50
2:AA:981:A:OP2	2:AA:982:C:N4	2.43	0.50
2:AA:1011:G:C2'	2:AA:1013:C:C5'	2.89	0.50
2:AA:1047:G:N2	2:AA:1110:G:H2'	2.25	0.50
2:AA:1055:G:N3	9:AI:28:LYS:CD	2.71	0.50
2:AA:1195:G:H1'	2:AA:1226:G:H22	1.76	0.50
2:AA:1202:C:C6	2:AA:1244:G:N1	2.79	0.50
2:AA:1293:C:O2	2:AA:1294:U:H6	1.94	0.50
2:AA:1317:A:C8	2:AA:1317:A:H3'	2.46	0.50
2:AA:1346:G:C2'	2:AA:1347:G:O5'	2.60	0.50
2:AA:1353:A:H2'	2:AA:1354:A:O4'	2.11	0.50
2:AA:1358:G:C2'	2:AA:1373:A:N6	2.73	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1366:A:O2'	2:AA:1367:A:H5'	2.11	0.50
2:AA:1375:C:HO2'	2:AA:1376:C:H5'	1.76	0.50
2:AA:1434:A:C2	2:AA:1435:G:N9	2.80	0.50
2:AA:1518:C:C5	2:AA:1519:G:C8	2.99	0.50
2:AA:1527:G:C8	2:AA:1527:G:O5'	2.64	0.50
2:AA:1544:C:C2'	2:AA:1545:A:C4'	2.89	0.50
2:AA:1681:G:H2'	2:AA:1762:A:C8	2.46	0.50
2:AA:1843:C:H2'	2:AA:1844:C:H6	1.75	0.50
2:AA:1857:G:C8	2:AA:1857:G:C3'	2.93	0.50
2:AA:1966:A:C2	2:AA:2593:U:C5'	2.88	0.50
2:AA:2075:U:H2'	2:AA:2076:U:O3'	2.11	0.50
2:AA:2103:C:N3	2:AA:2187:G:O6	2.43	0.50
2:AA:2406:U:H3	14:AO:55:GLN:CG	2.23	0.50
2:AA:2476:A:O2'	2:AA:2477:C:H5'	2.11	0.50
2:AA:2492:U:H2'	2:AA:2493:U:C5'	2.41	0.50
2:AA:2568:C:C2	2:AA:2569:G:C8	3.00	0.50
2:AA:2647:U:O2	2:AA:2648:C:C5	2.64	0.50
2:AA:2789:C:O2'	2:AA:2893:G:N2	2.43	0.50
2:AA:2805:G:C3'	2:AA:2807:G:C5'	2.86	0.50
2:AA:2807:G:C4	2:AA:2808:U:C5	3.00	0.50
3:AC:91:ALA:HB2	3:AC:153:ILE:HD13	1.93	0.50
3:AC:196:LEU:O	3:AC:197:GLU:C	2.53	0.50
4:AD:209:ASN:O	4:AD:213:LYS:HD3	2.11	0.50
5:AE:200:ASP:HA	5:AE:266:LYS:CD	2.41	0.50
5:AE:222:ARG:NH1	5:AE:222:ARG:CG	2.50	0.50
6:AF:217:GLU:C	6:AF:218:VAL:HG23	2.36	0.50
7:AG:82:GLU:O	7:AG:85:GLN:OE1	2.28	0.50
7:AG:105:SER:C	7:AG:106:PHE:CG	2.89	0.50
10:AK:57:GLN:O	10:AK:60:GLU:HB3	2.11	0.50
10:AK:81:ALA:CB	10:AK:89:LEU:CD2	2.85	0.50
10:AK:121:ILE:HG22	10:AK:122:ARG:H	1.75	0.50
12:AM:16:ASP:N	12:AM:44:ALA:HA	2.27	0.50
12:AM:19:MET:HB2	12:AM:45:VAL:O	2.11	0.50
13:AN:19:VAL:HG13	13:AN:42:THR:CA	2.40	0.50
13:AN:35:ILE:HD12	13:AN:35:ILE:H	1.73	0.50
13:AN:71:ARG:HG3	13:AN:72:PRO:HD2	1.92	0.50
13:AN:89:ASP:O	13:AN:90:ASP:C	2.52	0.50
13:AN:99:PHE:O	13:AN:100:GLY:C	2.55	0.50
15:AP:48:ASN:O	15:AP:48:ASN:CG	2.54	0.50
16:AQ:72:GLU:CB	16:AQ:74:PRO:HD2	2.42	0.50
22:AW:19:GLU:O	22:AW:23:LEU:CG	2.45	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:7:LYS:HA	23:AX:33:GLN:O	2.10	0.50
25:A1:37:GLN:O	25:A1:39:LEU:N	2.44	0.50
25:A1:47:TYR:CZ	26:A2:76:SER:HA	2.42	0.50
25:A1:57:PHE:HA	25:A1:60:LEU:HB2	1.93	0.50
25:A1:74:MET:HE3	25:A1:78:THR:OG1	2.11	0.50
25:A1:85:ARG:CD	25:A1:116:ALA:O	2.58	0.50
30:A6:21:TYR:OH	30:A6:43:VAL:CG2	2.60	0.50
34:BA:133:U:O2'	34:BA:134:A:N7	2.31	0.50
34:BA:148:G:O2'	34:BA:149:A:H5'	2.11	0.50
34:BA:237:C:H5''	52:BT:25:ARG:CZ	2.41	0.50
34:BA:544:G:C5	34:BA:545:C:C5	2.99	0.50
34:BA:544:G:H2'	34:BA:545:C:H6	1.76	0.50
34:BA:714:G:N2	34:BA:777:A:H1'	2.26	0.50
34:BA:773:G:C2	34:BA:774:G:C8	3.00	0.50
34:BA:791:G:O6	34:BA:792:A:N6	2.41	0.50
34:BA:952:U:C5'	34:BA:972:C:N4	2.70	0.50
34:BA:1065:U:O2'	34:BA:1066:C:O5'	2.27	0.50
34:BA:1077:G:H22	34:BA:1079:G:H3'	1.73	0.50
34:BA:1078:U:C4	34:BA:1079:G:C6	3.00	0.50
34:BA:1234:C:C4'	34:BA:1364:U:H1'	2.41	0.50
34:BA:1257:U:O2'	34:BA:1258:G:P	2.69	0.50
34:BA:1290:G:O3'	42:BJ:37:ASN:CG	2.55	0.50
34:BA:1342:C:C1'	44:BL:124:GLN:HB2	2.39	0.50
34:BA:1508:G:N3	34:BA:1509:C:C6	2.78	0.50
35:BB:6:U:C4	35:BB:68:U:N3	2.77	0.50
35:BC:1:G:N3	35:BC:1:G:H2'	2.27	0.50
35:BC:34:G:C3'	35:BC:35:A:C5'	2.85	0.50
35:BC:62:A:O2'	35:BC:63:C:H5'	2.11	0.50
37:BE:14:GLY:O	37:BE:15:VAL:CG1	2.51	0.50
37:BE:54:THR:HG22	37:BE:58:ILE:HD11	1.93	0.50
38:BF:182:ILE:CG2	38:BF:202:ILE:C	2.85	0.50
39:BG:3:ARG:HG3	39:BG:3:ARG:NH1	2.26	0.50
39:BG:123:HIS:HB3	39:BG:125:HIS:NE2	2.26	0.50
40:BH:34:VAL:HG23	40:BH:62:ALA:HB1	1.93	0.50
40:BH:137:GLU:O	40:BH:140:ARG:N	2.45	0.50
41:BI:4:TYR:O	41:BI:65:VAL:O	2.29	0.50
42:BJ:129:GLU:OE1	42:BJ:131:LYS:HD3	2.11	0.50
43:BK:18:ARG:HH12	43:BK:78:GLN:NE2	2.08	0.50
43:BK:27:PRO:O	43:BK:32:LYS:HD2	2.10	0.50
44:BL:4:TYR:CD2	44:BL:88:TYR:HB2	2.45	0.50
44:BL:19:LEU:HD22	44:BL:59:PHE:HB2	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BL:47:LEU:CD2	44:BL:50:LEU:HD12	2.35	0.50
45:BM:30:SER:OG	45:BM:81:THR:CA	2.56	0.50
45:BM:49:VAL:CG2	49:BQ:44:LEU:HD21	2.41	0.50
45:BM:99:LYS:C	45:BM:100:THR:CG2	2.85	0.50
47:BO:92:ASP:CA	47:BO:93:LEU:HD23	2.40	0.50
47:BO:102:ARG:HB3	47:BO:108:ALA:C	2.36	0.50
48:BP:24:GLY:HA3	48:BP:66:LEU:HD13	1.93	0.50
52:BT:4:LYS:HD2	52:BT:5:VAL:H	1.76	0.50
52:BT:27:PHE:O	52:BT:35:VAL:HG13	2.12	0.50
52:BT:44:ALA:CB	52:BT:59:ILE:HD11	2.41	0.50
52:BT:63:ARG:O	52:BT:64:PRO:C	2.54	0.50
53:BU:71:LYS:O	53:BU:75:ILE:HD12	2.11	0.50
2:AA:14:A:H62	2:AA:15:G:N2	2.08	0.50
2:AA:181:A:N6	2:AA:182:A:N6	2.59	0.50
2:AA:204:A:OP1	2:AA:204:A:C8	2.65	0.50
2:AA:206:U:OP2	2:AA:206:U:H5	1.93	0.50
2:AA:210:C:O2'	2:AA:211:A:H5'	2.11	0.50
2:AA:221:A:C4'	2:AA:222:A:H5'	2.35	0.50
2:AA:224:G:N7	2:AA:420:C:H5'	2.26	0.50
2:AA:242:G:C3'	32:A8:5:LYS:NZ	2.74	0.50
2:AA:270:A:N7	2:AA:270(A):A:C8	2.74	0.50
2:AA:290:G:OP2	2:AA:290:G:N7	2.45	0.50
2:AA:331:A:C5	2:AA:1209:G:N2	2.79	0.50
2:AA:370:G:O2'	2:AA:371:A:O4'	2.29	0.50
2:AA:385:C:O2'	2:AA:386:G:H5''	2.11	0.50
2:AA:408:G:H2'	2:AA:409:C:C5'	2.41	0.50
2:AA:410:G:N2	2:AA:2407:G:C5	2.80	0.50
2:AA:522:G:H2'	2:AA:523:C:H6	1.76	0.50
2:AA:557:U:H5''	12:AM:92:GLN:HB2	1.92	0.50
2:AA:703:U:C3'	2:AA:704:G:C8	2.92	0.50
2:AA:742:G:N3	2:AA:743:G:C8	2.79	0.50
2:AA:778:G:H22	2:AA:787:U:H1'	1.75	0.50
2:AA:861:A:N7	2:AA:862:G:C8	2.79	0.50
2:AA:898:C:C5'	2:AA:899:A:OP2	2.58	0.50
2:AA:968:G:C6	2:AA:969:U:C4	3.00	0.50
2:AA:980:A:H2'	2:AA:981:A:N9	2.25	0.50
2:AA:1053:C:H2'	2:AA:1053:C:O2	2.10	0.50
2:AA:1064:C:C4	2:AA:1075:C:N4	2.80	0.50
2:AA:1081:U:C1'	11:AL:117:ASN:HD22	2.23	0.50
2:AA:1178:C:N4	2:AA:1179:C:H41	2.10	0.50
2:AA:1179:C:C2	2:AA:1180:C:C5	2.99	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1199:U:H6	2:AA:1199:U:OP2	1.95	0.50
2:AA:1400:G:C6	2:AA:1401:G:C6	2.99	0.50
2:AA:1472:A:N7	2:AA:1474:C:C5	2.80	0.50
2:AA:1536:A:H2'	2:AA:1537:C:C5'	2.35	0.50
2:AA:1558:A:C2	2:AA:1560:G:O4'	2.65	0.50
2:AA:1571:A:C3'	2:AA:1571:A:C4	2.91	0.50
2:AA:1572:A:P	2:AA:1572:A:O4'	2.70	0.50
2:AA:1578:U:H2'	2:AA:1579:A:C8	2.46	0.50
2:AA:1620:G:O4'	31:A7:1:MET:N	2.44	0.50
2:AA:1697:G:C8	2:AA:1698:A:C5'	2.95	0.50
2:AA:1709:U:H2'	2:AA:1710:C:O5'	2.11	0.50
2:AA:1885:A:HO2'	2:AA:1886:C:H5'	1.75	0.50
2:AA:1933:G:C2'	2:AA:1934:C:H5'	2.41	0.50
2:AA:2028:U:N3	2:AA:2029:G:C6	2.80	0.50
2:AA:2032:G:N7	5:AE:242:ASN:OD1	2.44	0.50
2:AA:2226:C:N4	2:AA:2227:A:C2	2.79	0.50
2:AA:2266:A:H5''	2:AA:2267:A:OP1	2.10	0.50
2:AA:2356:C:N4	2:AA:2357:U:O4	2.45	0.50
2:AA:2408:U:O2'	2:AA:2409:G:O5'	2.30	0.50
2:AA:2460:U:H2'	2:AA:2461:C:H6	1.77	0.50
2:AA:2599:G:O2'	2:AA:2600:A:O4'	2.30	0.50
2:AA:2605:U:O5'	2:AA:2605:U:H6	1.94	0.50
2:AA:2624:G:C2	2:AA:2625:G:C1'	2.95	0.50
2:AA:2675:A:H61	2:AA:2732:G:H1	1.58	0.50
2:AA:2720:U:C5	2:AA:2872:G:C6	3.00	0.50
2:AA:2748:A:N6	2:AA:2757:A:C8	2.80	0.50
2:AA:2753:A:C2'	2:AA:2754:U:H5'	2.41	0.50
2:AA:2821:A:C2	2:AA:2822:G:C5	2.99	0.50
3:AC:19:ILE:CD1	3:AC:223:ARG:HB3	2.41	0.50
3:AC:22:ILE:HG23	3:AC:189:ILE:CG2	2.41	0.50
4:AD:145:LEU:CD2	4:AD:183:ILE:HG12	2.38	0.50
5:AE:81:VAL:CG1	5:AE:100:TRP:HZ3	2.25	0.50
5:AE:84:ARG:O	5:AE:85:ALA:HB2	2.11	0.50
5:AE:201:VAL:HG12	5:AE:202:ALA:N	2.27	0.50
5:AE:222:ARG:CD	5:AE:232:ARG:C	2.84	0.50
5:AE:243:PRO:O	5:AE:244:SER:HB3	2.11	0.50
6:AF:35:VAL:O	6:AF:36:ARG:C	2.55	0.50
6:AF:91:PRO:O	6:AF:93:LYS:N	2.45	0.50
6:AF:108:GLN:O	6:AF:109:LEU:C	2.52	0.50
6:AF:115:LEU:CB	6:AF:246:ARG:NH1	2.74	0.50
6:AF:161:ASP:HA	6:AF:165:ASP:OD2	2.10	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:233:THR:OG1	6:AF:234:VAL:N	2.41	0.50
6:AF:239:ALA:HA	6:AF:242:GLU:HG3	1.92	0.50
7:AG:41:LEU:O	7:AG:44:ILE:N	2.44	0.50
7:AG:56:ARG:NH2	35:BC:19:G:N2	2.59	0.50
7:AG:140:ARG:HD2	7:AG:144:ARG:CZ	2.41	0.50
7:AG:141:VAL:HG11	7:AG:149:ARG:HB2	1.91	0.50
8:AH:59:HIS:O	8:AH:60:HIS:C	2.50	0.50
9:AJ:111:ALA:HA	9:AJ:114:ILE:HD12	1.93	0.50
10:AK:131:VAL:HG12	10:AK:133:LEU:CD2	2.41	0.50
12:AM:19:MET:HB3	12:AM:46:ILE:HG13	1.91	0.50
12:AM:75:PRO:O	12:AM:78:ILE:N	2.43	0.50
13:AN:22:ILE:CG2	13:AN:23:LYS:H	2.19	0.50
14:AO:94:ARG:HD2	14:AO:94:ARG:H	1.76	0.50
16:AQ:120:GLU:O	16:AQ:121:GLY:C	2.52	0.50
18:AS:70:TYR:N	18:AS:70:TYR:CD1	2.79	0.50
20:AU:71:VAL:CG1	20:AU:91:LEU:O	2.59	0.50
21:AV:51:LEU:HD22	21:AV:63:PRO:HB2	1.93	0.50
22:AW:43:PRO:HB2	22:AW:46:ILE:CD1	2.41	0.50
25:A1:30:LYS:O	25:A1:32:TYR:HD2	1.93	0.50
26:A2:62:GLU:C	26:A2:95:ILE:HG22	2.36	0.50
27:A3:68:VAL:CG2	27:A3:72:LYS:HG3	2.41	0.50
31:A7:21:ARG:HH12	31:A7:42:LEU:CB	2.20	0.50
32:A8:2:PRO:O	32:A8:3:LYS:HG3	2.12	0.50
32:A8:26:LYS:CG	32:A8:44:LYS:HA	2.41	0.50
34:BA:33:A:H2'	47:BO:32:PHE:HE2	1.77	0.50
34:BA:44:G:N3	34:BA:45:U:O4'	2.44	0.50
34:BA:49:U:O4	34:BA:362:G:C2	2.64	0.50
34:BA:101:A:C2'	34:BA:102:G:C5'	2.89	0.50
34:BA:137:C:H42	34:BA:226:G:H1	1.58	0.50
34:BA:176:C:H5''	55:BW:29:LYS:NZ	2.26	0.50
34:BA:233:C:O2'	34:BA:234:C:H5'	2.12	0.50
34:BA:291:C:N4	34:BA:305:G:O2'	2.44	0.50
34:BA:336:C:O2'	34:BA:337:C:H5'	2.12	0.50
34:BA:383:A:C2'	34:BA:384:G:H5'	2.41	0.50
34:BA:511:C:O2'	34:BA:512:U:O4'	2.29	0.50
34:BA:518:C:C5	34:BA:530:G:C5	2.99	0.50
34:BA:571:U:P	34:BA:819:A:H2'	2.52	0.50
34:BA:595:G:H2'	34:BA:641:U:H3	1.77	0.50
34:BA:606:G:H22	34:BA:631:G:H2'	1.76	0.50
34:BA:652:U:C5	34:BA:752:G:C4	3.00	0.50
34:BA:658:G:C6	34:BA:749:C:N4	2.80	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:670:G:O2'	41:BI:77:ARG:NH2	2.43	0.50
34:BA:679:C:C2	34:BA:680:C:C5	3.00	0.50
34:BA:685:G:H5'	46:BN:12:ARG:NH1	2.27	0.50
34:BA:702:A:O2'	34:BA:703:G:OP1	2.22	0.50
34:BA:778:G:C2'	34:BA:779:C:O5'	2.60	0.50
34:BA:1045:C:N3	34:BA:1046:A:H8	2.08	0.50
34:BA:1054:C:C6	34:BA:1054:C:C3'	2.93	0.50
34:BA:1103:C:O2'	37:BE:111:ARG:HD2	2.11	0.50
34:BA:1291:G:H2'	34:BA:1292:U:C5	2.45	0.50
34:BA:1324:A:C5	34:BA:1325:C:C5	2.99	0.50
34:BA:1539:C:C2	36:B1:50:G:N2	2.71	0.50
35:BB:28:C:C2	35:BB:29:A:N7	2.79	0.50
35:BB:65:G:N2	35:BB:66:A:C4	2.80	0.50
36:B1:39:A:H2'	36:B1:39:A:N3	2.27	0.50
37:BE:20:GLU:CG	37:BE:189:ASP:CB	2.90	0.50
37:BE:50:GLU:O	37:BE:53:ARG:N	2.44	0.50
38:BF:15:THR:O	38:BF:16:ARG:CB	2.57	0.50
38:BF:101:LEU:HD23	38:BF:101:LEU:C	2.36	0.50
39:BG:18:LYS:O	39:BG:19:LEU:HG	2.11	0.50
39:BG:157:LEU:HA	39:BG:160:GLN:HG3	1.93	0.50
40:BH:15:ARG:HG3	40:BH:15:ARG:NH1	2.21	0.50
41:BI:78:GLU:O	41:BI:81:ILE:HB	2.12	0.50
41:BI:89:MET:SD	41:BI:91:VAL:HG23	2.52	0.50
42:BJ:123:GLU:O	42:BJ:125:MET:N	2.44	0.50
42:BJ:133:GLY:O	42:BJ:136:LYS:HE3	2.11	0.50
44:BL:37:PHE:CD1	44:BL:43:ALA:HA	2.46	0.50
47:BO:37:CYS:HA	47:BO:58:VAL:HG22	1.94	0.50
48:BP:27:LYS:O	48:BP:28:ALA:HB2	2.10	0.50
48:BP:64:TRP:CD1	48:BP:65:LYS:H	2.29	0.50
49:BQ:48:ALA:C	49:BQ:50:LYS:N	2.69	0.50
51:BS:39:TYR:CD1	51:BS:39:TYR:C	2.90	0.50
52:BT:10:VAL:HG11	52:BT:53:LEU:CA	2.41	0.50
52:BT:97:SER:OG	52:BT:103:GLY:HA3	2.12	0.50
53:BU:21:LYS:HZ1	53:BU:23:LYS:CB	2.13	0.50
53:BU:26:LEU:HG	53:BU:29:PHE:HB2	1.94	0.50
54:BV:11:VAL:CG2	54:BV:39:THR:O	2.60	0.50
55:BW:50:GLU:H	55:BW:99:LEU:HG	1.76	0.50
55:BW:83:ARG:O	55:BW:84:LEU:C	2.52	0.50
1:AB:6:C:O2	1:AB:114:G:N1	2.32	0.50
1:AB:21:G:C2	1:AB:22:U:C2	3.00	0.50
1:AB:100:G:C4	1:AB:101:A:N7	2.79	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:197:A:H3'	2:AA:198:C:H6	1.76	0.50
2:AA:218:A:H61	2:AA:235:U:H1'	1.76	0.50
2:AA:233:A:H2'	2:AA:234:C:O5'	2.11	0.50
2:AA:338:G:P	20:AU:21:LYS:HG3	2.52	0.50
2:AA:363(D):G:C2	2:AA:363(E):U:H1'	2.47	0.50
2:AA:387:U:H5''	28:A4:29:PRO:HG3	1.93	0.50
2:AA:503:A:OP2	2:AA:503:A:C8	2.63	0.50
2:AA:504:U:O5'	2:AA:504:U:C6	2.65	0.50
2:AA:531:C:H42	25:A1:38:THR:CG2	2.25	0.50
2:AA:686:G:N2	2:AA:788:A:C6	2.79	0.50
2:AA:744:G:H2'	2:AA:745:G:H8	1.73	0.50
2:AA:786:C:H2'	2:AA:787:U:O4'	2.12	0.50
2:AA:787:U:O4	2:AA:791:C:C4	2.65	0.50
2:AA:988:A:OP2	23:AX:11:SER:CB	2.57	0.50
2:AA:995:C:O2	2:AA:995:C:C2'	2.57	0.50
2:AA:1021:A:C6	2:AA:1023:U:C2	3.00	0.50
2:AA:1022:G:C6	2:AA:1139:G:C5	2.99	0.50
2:AA:1086:A:H2'	2:AA:1087:G:H5'	1.94	0.50
2:AA:1094:U:C5	2:AA:1096:A:OP2	2.63	0.50
2:AA:1141:U:H2'	2:AA:1141:U:O2	2.11	0.50
2:AA:1226:G:C8	2:AA:1226:G:C3'	2.95	0.50
2:AA:1293:C:C2'	2:AA:1294:U:O5'	2.60	0.50
2:AA:1304:C:C2'	2:AA:1304:C:O2	2.58	0.50
2:AA:1324:G:C2'	2:AA:1616:A:H62	2.23	0.50
2:AA:1419:A:C4	2:AA:1578:U:C4	3.00	0.50
2:AA:1496:A:N1	2:AA:1577:C:O2'	2.38	0.50
2:AA:1567:A:N1	4:AD:83:ASP:HA	2.27	0.50
2:AA:1630:G:C6	2:AA:630(A):C:N4	2.80	0.50
2:AA:1630:G:H2'	2:AA:630(A):C:H6	1.77	0.50
2:AA:1752:C:N4	2:AA:1756:G:N1	2.37	0.50
2:AA:1789:A:C4	2:AA:1790:C:C6	2.99	0.50
2:AA:1826:G:N1	2:AA:1827:C:C5	2.78	0.50
2:AA:1912:A:C8	2:AA:1913:A:H1'	2.46	0.50
2:AA:1931:U:O4	2:AA:1969:A:N7	2.45	0.50
2:AA:1982:C:C6	2:AA:1982:C:O5'	2.64	0.50
2:AA:2093:G:O2'	2:AA:2094:G:H5'	2.10	0.50
2:AA:2137:C:H41	2:AA:2155:G:H1'	1.76	0.50
2:AA:2199:A:H8	2:AA:2199:A:O5'	1.94	0.50
2:AA:2330:G:N1	2:AA:2331:G:C4	2.80	0.50
2:AA:2356:C:C2'	2:AA:2357:U:O5'	2.59	0.50
2:AA:2363:C:O2'	2:AA:2364:C:H5'	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2378:A:N3	16:AQ:26:LEU:CG	2.74	0.50
2:AA:2397:G:N1	2:AA:2420:C:C2	2.80	0.50
2:AA:2411:A:O5'	2:AA:2411:A:H8	1.94	0.50
3:AC:70:LYS:HA	3:AC:157:LYS:HZ3	1.72	0.50
3:AC:131:LEU:HB3	3:AC:137:LEU:N	2.23	0.50
4:AD:73:ILE:HB	4:AD:95:TYR:CD2	2.46	0.50
5:AE:45:LYS:NZ	5:AE:302:GLY:O	2.44	0.50
5:AE:71:THR:HG1	5:AE:299:SER:HA	1.73	0.50
5:AE:221:LYS:HZ1	5:AE:233:ARG:CG	2.18	0.50
5:AE:233:ARG:O	5:AE:234:ARG:CG	2.55	0.50
6:AF:19:PRO:O	6:AF:23:GLU:HG3	2.12	0.50
6:AF:61:PHE:HB2	6:AF:67:GLN:OE1	2.12	0.50
6:AF:116:ALA:O	6:AF:117:ALA:C	2.54	0.50
6:AF:163:HIS:HA	6:AF:166:ILE:HD12	1.93	0.50
7:AG:12:GLU:O	7:AG:12:GLU:CD	2.55	0.50
7:AG:47:GLN:HE21	7:AG:79:MET:HG3	1.77	0.50
7:AG:100:ASP:C	7:AG:102:GLY:N	2.69	0.50
8:AH:151:ARG:O	8:AH:152:PRO:O	2.30	0.50
9:AJ:77:VAL:HG13	9:AJ:102:ILE:HD11	1.93	0.50
9:AJ:78:ARG:NH2	9:AJ:89:LYS:HG3	2.11	0.50
10:AK:100:GLU:O	10:AK:104:ALA:HB2	2.12	0.50
11:AL:45:GLU:CD	11:AL:70:ILE:CD1	2.85	0.50
11:AL:104:GLN:HA	11:AL:107:GLU:CD	2.36	0.50
12:AM:53:ILE:O	12:AM:54:VAL:C	2.55	0.50
12:AM:58:GLU:HG3	12:AM:139:LEU:CG	2.41	0.50
13:AN:40:VAL:O	13:AN:41:ALA:HB2	2.11	0.50
14:AO:66:VAL:CG1	14:AO:67:ARG:N	2.56	0.50
15:AP:51:GLU:H	15:AP:51:GLU:CD	2.08	0.50
15:AP:57:ARG:CB	15:AP:60:ALA:HB3	2.42	0.50
16:AQ:89:GLY:O	16:AQ:93:GLN:HG3	2.12	0.50
19:AT:49:VAL:O	19:AT:49:VAL:CG1	2.55	0.50
20:AU:19:ARG:HH22	20:AU:68:ASP:HA	1.68	0.50
21:AV:19:ILE:HD11	21:AV:79:ILE:CG1	2.42	0.50
25:A1:8:ILE:HD12	25:A1:9:VAL:HG23	1.93	0.50
26:A2:42:GLY:CA	26:A2:54:TYR:CZ	2.94	0.50
34:BA:18:C:H4'	34:BA:1078:U:O2	2.12	0.50
34:BA:41:G:C2'	34:BA:42:G:H8	2.19	0.50
34:BA:67:C:O4'	34:BA:172:A:H1'	2.11	0.50
34:BA:68:G:C6	34:BA:69:G:C5	2.99	0.50
34:BA:225:C:C2'	34:BA:226:G:C5'	2.83	0.50
34:BA:298:A:H3'	34:BA:299:G:C8	2.32	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:411:A:H2	34:BA:431:A:N6	2.09	0.50
34:BA:434:U:H2'	34:BA:435:C:C6	2.45	0.50
34:BA:521:G:C6	34:BA:529:G:N2	2.79	0.50
34:BA:553:A:H2'	34:BA:554:C:H6	1.74	0.50
34:BA:666:G:OP2	34:BA:726:C:H1'	2.12	0.50
34:BA:685:G:C2	34:BA:686:U:C5	2.99	0.50
34:BA:691:G:H1	46:BN:52:GLY:HA2	1.77	0.50
34:BA:696:A:C4	34:BA:697:U:C5	3.00	0.50
34:BA:792:A:C4	34:BA:794:A:N6	2.79	0.50
34:BA:997:U:C4	34:BA:1044:A:N1	2.79	0.50
34:BA:1055:A:N7	34:BA:1200:C:N4	2.60	0.50
34:BA:1151:A:C2'	34:BA:1152:A:O5'	2.60	0.50
34:BA:1288:A:O2'	34:BA:1289:A:O5'	2.21	0.50
34:BA:1324:A:N6	34:BA:1325:C:N4	2.60	0.50
34:BA:1347:G:C2'	34:BA:1348:U:OP2	2.59	0.50
34:BA:361(A):C:O2'	34:BA:1362:C:O4'	2.29	0.50
34:BA:1436:U:C5	34:BA:1437:C:C5	2.99	0.50
34:BA:1493:A:C2'	34:BA:1494:G:O5'	2.60	0.50
35:BB:1:G:N1	35:BB:73:A:C2	2.79	0.50
35:BC:16:U:P	35:BC:60:C:HO2'	2.28	0.50
37:BE:23:ARG:HH11	37:BE:24:TRP:CA	2.24	0.50
37:BE:102:LEU:O	37:BE:180:LEU:HD13	2.11	0.50
38:BF:130:VAL:O	38:BF:134:ILE:HD12	2.11	0.50
39:BG:19:LEU:O	39:BG:20:TYR:O	2.29	0.50
39:BG:63:LYS:HG2	39:BG:64:LEU:N	2.22	0.50
39:BG:200:GLU:O	39:BG:204:ILE:HD12	2.11	0.50
40:BH:12:LEU:CD1	40:BH:31:LEU:CB	2.89	0.50
40:BH:36:ASP:OD2	40:BH:38:GLN:HB2	2.10	0.50
42:BJ:95:ARG:O	42:BJ:97:GLN:N	2.44	0.50
43:BK:28:ALA:O	43:BK:29:SER:CB	2.60	0.50
45:BM:24:VAL:HA	45:BM:34:VAL:HG11	1.93	0.50
45:BM:27:ALA:CB	45:BM:85:LEU:HD11	2.30	0.50
48:BP:78:ILE:HG12	48:BP:88:ARG:NH2	2.26	0.50
49:BQ:4:LYS:HA	49:BQ:7:ILE:HG13	1.93	0.50
49:BQ:9:LYS:CA	49:BQ:21:TYR:HE1	2.19	0.50
49:BQ:57:ARG:O	49:BQ:58:LYS:C	2.54	0.50
50:BR:66:LEU:N	50:BR:66:LEU:CD2	2.74	0.50
52:BT:57:VAL:CB	52:BT:75:ARG:O	2.55	0.50
54:BV:40:ILE:HG12	54:BV:71:LEU:CD2	2.25	0.50
55:BW:56:MET:CG	55:BW:88:VAL:HG11	2.41	0.50
1:AB:32:C:N4	1:AB:51:G:C6	2.80	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:52:A:C2	1:AB:53:A:C1'	2.89	0.50
1:AB:79:C:H2'	1:AB:80:U:H5'	1.93	0.50
1:AB:113:C:H4'	16:AQ:56:ASP:OD2	2.12	0.50
2:AA:54:G:H8	2:AA:54:G:O5'	1.94	0.50
2:AA:221:A:N7	2:AA:266:G:C5	2.79	0.50
2:AA:262:A:H2'	2:AA:263:C:H5'	1.93	0.50
2:AA:271:G:H1	2:AA:404:C:H41	1.59	0.50
2:AA:422:A:N1	2:AA:423:A:C4	2.80	0.50
2:AA:565:C:C4'	2:AA:1252:G:O6	2.59	0.50
2:AA:673:C:H2'	2:AA:674:G:O5'	2.10	0.50
2:AA:686:G:H4'	2:AA:687:C:OP2	2.11	0.50
2:AA:787:U:O4	2:AA:791:C:C5	2.65	0.50
2:AA:801:G:HO2'	2:AA:802:A:P	2.27	0.50
2:AA:863:A:C2	2:AA:864:G:C5	2.99	0.50
2:AA:1009:A:O4'	25:A1:59:ARG:CD	2.59	0.50
2:AA:1071:G:C2'	2:AA:1072:C:H5'	2.41	0.50
2:AA:1203:G:N3	2:AA:1203:G:C3'	2.71	0.50
2:AA:1364:G:OP1	28:A4:3:LYS:CG	2.60	0.50
2:AA:1442:G:C2	2:AA:1550:C:C2	3.00	0.50
2:AA:1534:G:N2	2:AA:1536:A:C1'	2.74	0.50
2:AA:1557:C:C3'	2:AA:1558:A:H5''	2.36	0.50
2:AA:1710:C:C1'	2:AA:2858:C:H42	2.25	0.50
2:AA:1746:G:C3'	2:AA:1747:G:C8	2.95	0.50
2:AA:1758:G:N7	2:AA:2695:C:C4'	2.74	0.50
2:AA:1798:U:C2'	2:AA:1799:G:H5'	2.41	0.50
2:AA:1858:G:C2	2:AA:1885:A:N7	2.78	0.50
2:AA:1913:A:C5	2:AA:1918:A:N1	2.80	0.50
2:AA:1956:U:O2	2:AA:1957:C:C6	2.65	0.50
2:AA:1965:C:H5''	2:AA:1966:A:H3'	1.93	0.50
2:AA:1965:C:H5'	2:AA:1966:A:O5'	2.10	0.50
2:AA:1992:G:C5	2:AA:1997:G:C6	2.99	0.50
2:AA:2018:G:N2	2:AA:2019:A:O4'	2.44	0.50
2:AA:2027:G:C4	2:AA:2037:G:C2	3.00	0.50
2:AA:2032:G:O6	2:AA:2572:A:N3	2.44	0.50
2:AA:2192:G:C2	2:AA:2193:G:N7	2.79	0.50
2:AA:2207:C:N3	2:AA:2208:U:C5	2.80	0.50
2:AA:2213:U:C2	2:AA:2213:U:C3'	2.95	0.50
2:AA:2217:G:OP2	2:AA:2217:G:C8	2.65	0.50
2:AA:2334:G:O4'	2:AA:2334:G:OP1	2.30	0.50
2:AA:2576:G:OP1	2:AA:2577:A:P	2.70	0.50
2:AA:2634:G:O2'	2:AA:2635:C:C5'	2.53	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2748:A:N1	2:AA:2757:A:N7	2.60	0.50
2:AA:2759:G:O2'	2:AA:2760:C:O5'	2.29	0.50
2:AA:2797:U:H1'	2:AA:2799:A:C8	2.45	0.50
2:AA:2807:G:N9	2:AA:2808:U:H5	2.10	0.50
2:AA:2838:G:O2'	24:A0:45:ARG:NH1	2.32	0.50
2:AA:2862:G:C6	2:AA:2863:C:N4	2.79	0.50
2:AA:2883:A:H3'	2:AA:2884:U:H5'	1.92	0.50
3:AC:14:VAL:HG11	3:AC:222:VAL:CG2	2.38	0.50
3:AC:59:ARG:HB2	3:AC:164:ARG:CB	2.40	0.50
3:AC:75:LEU:O	3:AC:114:VAL:HG22	2.11	0.50
5:AE:44:TYR:O	5:AE:74:GLU:OE2	2.29	0.50
5:AE:81:VAL:CB	5:AE:100:TRP:CZ3	2.90	0.50
5:AE:109:ASP:CG	5:AE:112:LEU:HB3	2.36	0.50
6:AF:84:VAL:HB	6:AF:85:LYS:CE	2.41	0.50
7:AG:56:ARG:CD	35:BC:56:C:O2'	2.47	0.50
7:AG:79:MET:HA	7:AG:82:GLU:OE2	2.11	0.50
7:AG:146:LYS:HE3	16:AQ:15:GLU:OE2	2.12	0.50
8:AH:34:ARG:HD2	8:AH:36:PHE:HE1	1.69	0.50
8:AH:40:MET:HA	8:AH:54:PRO:CG	2.42	0.50
9:AI:3:ILE:HD13	11:AL:117:ASN:OD1	2.12	0.50
9:AJ:26:GLU:O	9:AJ:29:PHE:N	2.45	0.50
10:AK:19:LYS:CE	10:AK:20:ASN:N	2.73	0.50
10:AK:83:ALA:CA	10:AK:90:PHE:CE1	2.94	0.50
10:AK:115:ILE:HA	10:AK:131:VAL:CG1	2.36	0.50
11:AL:20:PRO:O	11:AL:21:ALA:C	2.54	0.50
11:AL:96:ILE:O	11:AL:96:ILE:CG2	2.59	0.50
11:AL:105:ILE:HG23	11:AL:128:ILE:HD13	1.93	0.50
12:AM:10:VAL:CG1	12:AM:36:VAL:HG22	2.40	0.50
12:AM:24:SER:HB3	12:AM:86:MET:HE1	1.92	0.50
13:AN:5:GLU:HA	13:AN:20:LEU:HD23	1.93	0.50
13:AN:10:VAL:HG12	13:AN:12:ASP:O	2.10	0.50
13:AN:35:ILE:HA	13:AN:62:VAL:HB	1.94	0.50
13:AN:65:THR:OG1	13:AN:67:ARG:CG	2.59	0.50
13:AN:66:LYS:HD2	13:AN:66:LYS:O	2.11	0.50
14:AO:120:LEU:HG	14:AO:122:ALA:HB2	1.92	0.50
14:AO:141:GLU:CG	14:AO:145:LEU:HB2	2.41	0.50
15:AP:42:TYR:OH	21:AV:100:THR:HG23	2.11	0.50
16:AQ:99:GLU:CD	16:AQ:128:ASP:CB	2.84	0.50
16:AQ:120:GLU:HG3	16:AQ:123:ILE:HD12	1.92	0.50
17:AR:6:CYS:O	17:AR:9:CYS:HB3	2.11	0.50
20:AU:46:ASP:OD1	20:AU:100:ASP:O	2.30	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:77:VAL:HB	20:AU:91:LEU:CD2	2.42	0.50
21:AV:3:LEU:HD12	21:AV:54:ILE:HD11	1.94	0.50
23:AX:40:THR:HG23	23:AX:43:ILE:CG1	2.42	0.50
25:A1:27:SER:C	25:A1:31:GLN:HG3	2.33	0.50
26:A2:68:LYS:HG2	26:A2:69:ILE:HD12	1.92	0.50
29:A5:34:PRO:HD2	29:A5:36:CYS:H	1.77	0.50
30:A6:40:TYR:HB2	30:A6:50:PHE:CE2	2.47	0.50
30:A6:41:ASP:N	30:A6:41:ASP:OD1	2.43	0.50
34:BA:9:G:N7	40:BH:126:ARG:NH1	2.58	0.50
34:BA:12:U:H5''	34:BA:526:C:O2'	2.12	0.50
34:BA:27:G:C6	34:BA:557:G:C2	2.99	0.50
34:BA:77:G:N1	34:BA:78:G:C5	2.80	0.50
34:BA:127:G:O2'	52:BT:2:PRO:HD2	2.12	0.50
34:BA:128:G:O2'	52:BT:3:LYS:HE3	2.12	0.50
34:BA:130:A:C5	34:BA:264:U:H1'	2.47	0.50
34:BA:134:A:C8	34:BA:325:A:C2	3.00	0.50
34:BA:299:G:C5	34:BA:300:A:N6	2.79	0.50
34:BA:308:C:C2	34:BA:309:G:C8	3.00	0.50
34:BA:377:G:H2'	34:BA:378:G:C8	2.46	0.50
34:BA:404:U:P	39:BG:118:ARG:HH11	2.34	0.50
34:BA:499:A:H2'	34:BA:546:G:N2	2.27	0.50
34:BA:747:C:H2'	34:BA:748:C:H1'	1.93	0.50
34:BA:765:G:O6	34:BA:812:C:C5	2.65	0.50
34:BA:834:C:O2'	34:BA:835:U:H5'	2.12	0.50
34:BA:901:A:C2'	34:BA:902:G:O5'	2.60	0.50
34:BA:946:A:N6	34:BA:1235:U:H3	2.10	0.50
34:BA:986:A:O2'	54:BV:55:LYS:HA	2.10	0.50
34:BA:1128:C:O2	34:BA:1130:A:C6	2.64	0.50
34:BA:1195:C:O2	34:BA:1197:G:C1'	2.59	0.50
34:BA:1202:G:N2	34:BA:1203:C:O4'	2.44	0.50
34:BA:1373:G:C1'	42:BJ:34:GLY:CA	2.89	0.50
34:BA:1406:U:O2	34:BA:1406:U:C2'	2.52	0.50
34:BA:1440:C:H2'	34:BA:1441:G:C8	2.45	0.50
34:BA:1521:G:O2'	34:BA:1522:U:H5'	2.12	0.50
35:BB:15:G:N1	35:BB:48:C:N3	2.46	0.50
35:BB:18:G:O2'	35:BB:19:G:P	2.69	0.50
35:BB:49:C:N4	35:BB:66:A:N6	2.60	0.50
35:BB:58:A:HO2'	35:BB:59:U:P	2.32	0.50
35:BC:10:G:O6	35:BC:25:C:N3	2.45	0.50
36:B1:10:U:O2'	36:B1:11:U:H5'	2.12	0.50
36:B1:30:U:C2'	36:B1:31:G:H5'	2.38	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B1:59:A:C8	36:B1:59:A:C3'	2.91	0.50
37:BE:25:ASN:HD21	37:BE:27:LYS:HG3	1.77	0.50
37:BE:74:LYS:HE2	37:BE:76:GLN:CG	2.41	0.50
37:BE:102:LEU:N	37:BE:176:GLU:OE1	2.45	0.50
37:BE:167:PRO:O	37:BE:170:GLU:N	2.45	0.50
42:BJ:6:ARG:O	42:BJ:7:ALA:O	2.30	0.50
42:BJ:29:LYS:HZ2	42:BJ:102:ARG:HB2	1.76	0.50
42:BJ:118:VAL:O	42:BJ:122:HIS:CD2	2.64	0.50
44:BL:85:LEU:HD11	44:BL:92:TYR:CD1	2.46	0.50
45:BM:39:PRO:O	45:BM:40:LEU:HB2	2.12	0.50
45:BM:56:HIS:CB	45:BM:59:SER:OG	2.59	0.50
46:BN:101:SER:O	46:BN:101:SER:OG	2.16	0.50
47:BO:32:PHE:HB3	47:BO:84:LEU:HD11	1.92	0.50
47:BO:70:ILE:HA	47:BO:100:ILE:CG1	2.41	0.50
52:BT:45:HIS:CE1	52:BT:47:PRO:CG	2.93	0.50
53:BU:54:ARG:O	53:BU:55:ARG:HG2	2.11	0.50
2:AA:28:A:H1'	2:AA:582:G:O2'	2.12	0.50
2:AA:144:C:C2'	2:AA:145:G:H8	2.16	0.50
2:AA:226:G:N1	2:AA:227:A:C2	2.80	0.50
2:AA:270(N):G:H2'	2:AA:270(O):U:C5'	2.38	0.50
2:AA:304:G:H2'	2:AA:305:U:O4'	2.12	0.50
2:AA:336:C:C2'	2:AA:337:C:C5'	2.89	0.50
2:AA:338:G:OP1	2:AA:338:G:C3'	2.60	0.50
2:AA:408:G:C2'	2:AA:409:C:C5'	2.90	0.50
2:AA:492:A:C2	2:AA:493:G:H1'	2.47	0.50
2:AA:530:G:O2'	2:AA:531:C:O3'	2.30	0.50
2:AA:627:A:N6	2:AA:637:A:H1'	2.24	0.50
2:AA:682:G:C6	2:AA:683:C:C4	2.99	0.50
2:AA:689:A:H2'	2:AA:690:G:C5'	2.41	0.50
2:AA:749:C:N3	2:AA:1618:A:C6	2.80	0.50
2:AA:790:C:OP1	2:AA:1781:C:N4	2.43	0.50
2:AA:819:A:C4	2:AA:1189:A:C2	3.00	0.50
2:AA:979:G:H8	2:AA:979:G:O5'	1.94	0.50
2:AA:1013:C:H2'	2:AA:1014:U:O4'	2.11	0.50
2:AA:1031:G:H8	2:AA:1031:G:H5''	1.76	0.50
2:AA:1082:U:O2	9:AI:3:ILE:CG2	2.44	0.50
2:AA:1086:A:C2'	2:AA:1087:G:H5'	2.42	0.50
2:AA:1156:A:O2'	2:AA:1157:G:OP1	2.25	0.50
2:AA:1221:C:N3	2:AA:1229:G:N1	2.59	0.50
2:AA:1356:G:H21	2:AA:1357:U:H1'	1.76	0.50
2:AA:1364:G:O6	28:A4:2:GLN:CG	2.60	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1476:C:C5	2:AA:1477:A:C2	2.92	0.50
2:AA:1520:U:C6	2:AA:1520:U:P	3.05	0.50
2:AA:1634:A:C8	2:AA:1634:A:C3'	2.94	0.50
2:AA:1664:A:N6	2:AA:1667:G:H22	2.10	0.50
2:AA:1840:G:H2'	2:AA:1841:U:H5'	1.93	0.50
2:AA:1861:G:N1	2:AA:1862:G:C4	2.79	0.50
2:AA:1982:C:N4	2:AA:1983:C:H41	2.10	0.50
2:AA:2142:C:C2	2:AA:2143:C:C5	2.98	0.50
2:AA:2147:G:HO2'	2:AA:2148:G:H5'	1.73	0.50
2:AA:2305:A:C2	7:AG:72:LYS:NZ	2.80	0.50
2:AA:2482:G:C5	2:AA:2483:C:C5	3.00	0.50
2:AA:2599:G:O2'	2:AA:2600:A:C5'	2.58	0.50
2:AA:2617:C:HO2'	2:AA:2618:G:H5'	1.75	0.50
2:AA:2627:G:N2	2:AA:2628:C:O2	2.44	0.50
2:AA:2639:A:H1'	2:AA:2778:A:H2	1.77	0.50
2:AA:2683:C:C4	2:AA:2684:U:C4	3.00	0.50
2:AA:2829:C:O2'	2:AA:2830:G:O5'	2.13	0.50
2:AA:2877:G:H3'	2:AA:2878:U:C6	2.47	0.50
2:AA:2881:C:C5'	24:A0:90:ARG:NH1	2.74	0.50
3:AC:16:PRO:C	3:AC:17:ASN:OD1	2.54	0.50
4:AD:71:ASP:OD2	4:AD:117:SER:O	2.30	0.50
4:AD:124:LYS:O	4:AD:127:ASN:ND2	2.39	0.50
4:AD:171:VAL:C	4:AD:182:MET:HG2	2.37	0.50
4:AD:176:ALA:C	4:AD:178:GLY:N	2.70	0.50
4:AD:213:LYS:HB3	4:AD:215:LYS:N	2.26	0.50
5:AE:222:ARG:HE	5:AE:233:ARG:CA	2.25	0.50
5:AE:269:ILE:HD13	5:AE:295:LEU:O	2.11	0.50
6:AF:49:ASP:HB3	6:AF:52:ALA:HB3	1.92	0.50
6:AF:114:ALA:O	6:AF:115:LEU:C	2.55	0.50
7:AG:44:ILE:O	7:AG:83:PHE:CZ	2.65	0.50
7:AG:65:GLU:O	7:AG:65:GLU:OE1	2.30	0.50
9:AI:6:ILE:O	9:AI:10:ILE:HG13	2.11	0.50
9:AI:22:VAL:HG11	9:AJ:42:ALA:HB1	1.94	0.50
9:AI:106:VAL:HG21	9:AI:114:ILE:HD11	1.92	0.50
9:AJ:106:VAL:HG21	9:AJ:114:ILE:HD11	1.94	0.50
10:AK:6:LEU:HD22	10:AK:14:LYS:NZ	2.27	0.50
10:AK:25:TYR:O	10:AK:29:PHE:CD1	2.65	0.50
10:AK:52:GLN:N	10:AK:55:GLN:HE21	2.10	0.50
10:AK:88:ARG:HB3	10:AK:122:ARG:CB	2.41	0.50
10:AK:104:ALA:HB1	10:AK:105:GLN:NE2	2.26	0.50
10:AK:130:PRO:HG2	10:AK:130:PRO:O	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:66:PHE:O	11:AL:67:THR:CG2	2.60	0.50
12:AM:53:ILE:CG2	12:AM:135:ILE:CD1	2.89	0.50
13:AN:60:ALA:HA	13:AN:87:ILE:CD1	2.42	0.50
14:AO:71:GLU:CG	14:AO:72:ASN:H	2.20	0.50
15:AP:82:LYS:O	15:AP:123:ILE:C	2.55	0.50
16:AQ:104:ILE:CG2	16:AQ:107:ASN:O	2.59	0.50
20:AU:27:LEU:CD1	20:AU:31:LEU:HD12	2.35	0.50
20:AU:55:PHE:HB3	20:AU:58:GLU:OE2	2.11	0.50
20:AU:72:ILE:HG23	20:AU:73:HIS:H	1.76	0.50
21:AV:2:GLU:O	21:AV:54:ILE:CG2	2.59	0.50
21:AV:37:LYS:O	21:AV:40:ASP:CG	2.55	0.50
21:AV:40:ASP:HB2	21:AV:41:ARG:CZ	2.42	0.50
21:AV:92:VAL:HG13	21:AV:124:ALA:HB2	1.94	0.50
21:AV:94:VAL:CG2	21:AV:124:ALA:HA	2.42	0.50
21:AV:98:VAL:HG13	21:AV:136:VAL:N	2.26	0.50
21:AV:103:ARG:NH1	21:AV:137:ASP:CB	2.75	0.50
21:AV:139:THR:O	21:AV:140:LYS:HB2	2.12	0.50
23:AX:33:GLN:CG	23:AX:34:GLU:H	2.25	0.50
24:A0:100:LEU:HB2	24:A0:111:LEU:C	2.34	0.50
25:A1:20:ARG:HH12	26:A2:75:LYS:CD	2.25	0.50
25:A1:104:GLU:HA	25:A1:107:LYS:CG	2.42	0.50
25:A1:111:ASP:C	25:A1:114:ARG:HG3	2.36	0.50
26:A2:61:VAL:HG11	26:A2:95:ILE:HB	1.93	0.50
28:A4:41:PRO:HG2	28:A4:57:ASP:CB	2.42	0.50
30:A6:37:LEU:O	30:A6:38:LYS:HG3	2.12	0.50
30:A6:47:HIS:O	30:A6:48:VAL:CB	2.59	0.50
32:A8:18:GLY:O	32:A8:19:THR:C	2.54	0.50
34:BA:59:A:H4'	34:BA:388:G:O5'	2.12	0.50
34:BA:65:U:C6	34:BA:381:C:N4	2.80	0.50
34:BA:163:C:C2'	34:BA:164:U:O4'	2.60	0.50
34:BA:166:G:C2	34:BA:167:G:N9	2.80	0.50
34:BA:172:A:N7	34:BA:174:C:C4	2.80	0.50
34:BA:246:A:N3	34:BA:282:A:C6	2.80	0.50
34:BA:439:A:C2'	34:BA:440:A:O5'	2.60	0.50
34:BA:463:A:N6	34:BA:474:G:C6	2.80	0.50
34:BA:483:C:H3'	34:BA:483:C:C6	2.47	0.50
34:BA:608:A:C4	34:BA:609:A:C8	2.99	0.50
34:BA:643:C:O2'	43:BK:132:GLU:CD	2.55	0.50
34:BA:727:G:H5'	34:BA:741:G:H22	1.77	0.50
34:BA:766:A:H2'	34:BA:767:A:O5'	2.11	0.50
34:BA:956:U:H2'	34:BA:957:U:H6	1.72	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1048:G:O4'	34:BA:1215:G:H4'	2.12	0.50
34:BA:1054:C:N3	35:BB:34:G:H5''	2.11	0.50
34:BA:1105:A:N3	34:BA:1106:G:C8	2.80	0.50
34:BA:1177:G:OP2	44:BL:97:LYS:HE2	2.12	0.50
34:BA:1248:A:C2'	44:BL:70:LYS:HZ1	2.24	0.50
34:BA:1287:A:H2	34:BA:1353:G:N3	2.09	0.50
34:BA:1313:U:C5	54:BV:4:SER:CB	2.94	0.50
34:BA:1314:C:N3	34:BA:1315:U:O4	2.45	0.50
34:BA:1352:C:C2	34:BA:1370:G:N2	2.72	0.50
34:BA:1419:G:O2'	34:BA:1420:C:O4'	2.29	0.50
34:BA:1447:G:N1	34:BA:1448:C:C4	2.79	0.50
34:BA:1459:C:P	55:BW:27:LYS:HZ3	2.35	0.50
34:BA:1528:U:O2'	34:BA:1529:G:O5'	2.28	0.50
34:BA:1533:C:H2'	34:BA:1534:A:O5'	2.12	0.50
35:BC:18:G:C6	35:BC:58:A:N1	2.80	0.50
36:B1:41:U:O2'	36:B1:42:G:H5'	2.11	0.50
37:BE:70:PHE:HD1	37:BE:90:MET:CB	2.25	0.50
37:BE:109:SER:O	37:BE:110:GLN:C	2.55	0.50
37:BE:112:VAL:O	37:BE:116:GLU:OE2	2.29	0.50
37:BE:146:GLN:HE21	37:BE:150:SER:CB	2.23	0.50
37:BE:163:PHE:HD1	37:BE:185:ILE:HB	1.73	0.50
38:BF:135:LYS:O	38:BF:139:GLN:HG2	2.11	0.50
39:BG:92:VAL:CG1	39:BG:96:LEU:HD11	2.42	0.50
39:BG:119:GLN:CG	39:BG:123:HIS:CD2	2.95	0.50
40:BH:103:GLY:O	40:BH:104:ALA:C	2.54	0.50
40:BH:115:VAL:CG1	40:BH:118:ILE:HD11	2.41	0.50
42:BJ:9:VAL:CG2	42:BJ:94:ARG:HD3	2.42	0.50
43:BK:89:PRO:HA	43:BK:92:ARG:HE	1.75	0.50
43:BK:104:ARG:NH2	43:BK:138:TRP:CZ2	2.80	0.50
43:BK:112:LEU:CD2	43:BK:131:GLY:HA3	2.42	0.50
45:BM:16:LEU:HD22	45:BM:94:VAL:HG21	1.93	0.50
47:BO:76:ASN:HD22	47:BO:77:LEU:H	1.60	0.50
48:BP:15:VAL:HG12	48:BP:19:LEU:HD23	1.92	0.50
49:BQ:13:THR:O	49:BQ:15:LYS:N	2.45	0.50
49:BQ:15:LYS:O	49:BQ:16:PHE:CD1	2.65	0.50
49:BQ:24:CYS:HB3	49:BQ:28:GLY:CA	2.41	0.50
53:BU:70:ILE:O	53:BU:74:ARG:CD	2.59	0.50
1:AB:1:U:H5''	1:AB:1:U:C6	2.46	0.50
1:AB:35:U:H6	1:AB:35:U:O5'	1.95	0.50
2:AA:16:G:O6	2:AA:524:U:C2	2.65	0.50
2:AA:155:C:N4	2:AA:171:G:O6	2.45	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:186:G:C6	2:AA:211:A:C6	3.00	0.50
2:AA:199:A:C6	2:AA:2433:A:C8	3.00	0.50
2:AA:336:C:O2'	2:AA:337:C:C5'	2.52	0.50
2:AA:336:C:H2'	2:AA:337:C:O4'	2.12	0.50
2:AA:443:A:H2	2:AA:1245:G:C2	2.29	0.50
2:AA:443:A:C2	2:AA:1245:G:N3	2.74	0.50
2:AA:445:C:OP1	25:A1:3:ARG:HG2	2.12	0.50
2:AA:445:C:C2'	25:A1:3:ARG:NH2	2.74	0.50
2:AA:448:U:C4	2:AA:583:G:H1'	2.47	0.50
2:AA:452:G:N3	2:AA:458:G:N2	2.60	0.50
2:AA:464:U:C5	2:AA:464:U:P	3.05	0.50
2:AA:507:A:H5'	2:AA:509:C:O4'	2.12	0.50
2:AA:673:C:C5'	6:AF:82:GLN:NE2	2.75	0.50
2:AA:774:A:H5''	2:AA:778:G:C4'	2.32	0.50
2:AA:818:G:C5	2:AA:1187:G:N2	2.80	0.50
2:AA:940:G:H2'	2:AA:941:A:H5''	1.93	0.50
2:AA:961:C:C2'	2:AA:962:G:OP1	2.59	0.50
2:AA:996:A:O3'	26:A2:10:LYS:NZ	2.45	0.50
2:AA:1024:G:H21	2:AA:1139:G:N2	2.04	0.50
2:AA:1028:A:OP2	2:AA:1126:A:N6	2.45	0.50
2:AA:1057:A:C8	2:AA:1085:A:C6	3.00	0.50
2:AA:1063:G:N7	2:AA:1070:A:OP2	2.45	0.50
2:AA:1293:C:N3	2:AA:1294:U:H5	2.10	0.50
2:AA:1301:A:O2'	2:AA:1302:A:C8	2.60	0.50
2:AA:1338:G:N3	2:AA:1339:G:C8	2.80	0.50
2:AA:1353:A:C6	2:AA:1378:A:N6	2.79	0.50
2:AA:1364:G:C5	28:A4:3:LYS:NZ	2.79	0.50
2:AA:1364:G:H22	2:AA:1366:A:H3'	1.76	0.50
2:AA:1379:A:N6	31:A7:10:ARG:CZ	2.74	0.50
2:AA:1419:A:C5	2:AA:1421:G:C5	2.99	0.50
2:AA:1508:A:C2'	2:AA:1509:C:H5	2.19	0.50
2:AA:1510:A:H8	2:AA:1511:A:N6	2.10	0.50
2:AA:1522:G:N2	2:AA:1523:U:C6	2.80	0.50
2:AA:1699:G:C2'	2:AA:1700:A:H4'	2.41	0.50
2:AA:1707:G:O4'	2:AA:1756:G:O2'	2.17	0.50
2:AA:1823:G:C2	2:AA:1824:G:N7	2.80	0.50
2:AA:1838:C:O2'	2:AA:1898:U:O4	2.28	0.50
2:AA:1919:A:OP1	2:AA:1920:C:OP2	2.28	0.50
2:AA:1997:G:C2	2:AA:1998:G:C4	3.00	0.50
2:AA:2010:G:C6	2:AA:2011:U:C5	3.00	0.50
2:AA:2106:G:H2'	2:AA:2107:C:C6	2.47	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2215:G:C2	2:AA:2216:G:C5	3.00	0.50
2:AA:2256:G:C4'	27:A3:5:LYS:HE2	2.42	0.50
2:AA:2261:C:O2'	2:AA:2262:U:H5'	2.12	0.50
2:AA:2330:G:C2'	2:AA:2331:G:H5'	2.42	0.50
2:AA:2356:C:C4	2:AA:2357:U:C4	3.00	0.50
2:AA:2456:C:H2'	2:AA:2457:U:C6	2.47	0.50
2:AA:2472:G:C2'	2:AA:2475:C:N4	2.46	0.50
2:AA:2522:U:O2	2:AA:2765:A:C5	2.65	0.50
2:AA:2603:G:C6	2:AA:2604:U:O4	2.65	0.50
2:AA:2716:U:H2'	2:AA:2717:G:O5'	2.12	0.50
2:AA:2740:A:N6	2:AA:2741:A:N1	2.59	0.50
2:AA:2758:A:H3'	2:AA:2758:A:OP2	2.12	0.50
2:AA:2808:U:C2	2:AA:2892:A:N6	2.80	0.50
2:AA:2881:C:N4	2:AA:2882:A:N6	2.59	0.50
2:AA:2886:G:N1	2:AA:2887:U:C4	2.79	0.50
3:AC:59:ARG:HE	3:AC:139:ASN:ND2	2.10	0.50
3:AC:69:GLY:C	3:AC:157:LYS:HG2	2.37	0.50
4:AD:85:ASN:CA	4:AD:86:ARG:HE	2.25	0.50
4:AD:109:LEU:CD1	4:AD:126:GLY:HA3	2.41	0.50
4:AD:117:SER:HB3	4:AD:128:ALA:C	2.34	0.50
4:AD:170:TYR:HA	4:AD:183:ILE:O	2.12	0.50
4:AD:174:ARG:NH1	4:AD:174:ARG:CB	2.74	0.50
4:AD:174:ARG:NE	4:AD:180:VAL:HG13	2.27	0.50
5:AE:47:GLY:HA2	5:AE:305:LYS:HE2	1.94	0.50
5:AE:205:THR:CG2	5:AE:259:HIS:CB	2.88	0.50
6:AF:40:ALA:HB1	6:AF:100:LEU:CB	2.41	0.50
6:AF:54:LEU:O	6:AF:79:ARG:HD3	2.11	0.50
6:AF:81:PRO:CA	6:AF:87:ARG:NH1	2.70	0.50
6:AF:237:GLU:C	6:AF:239:ALA:N	2.67	0.50
6:AF:242:GLU:CA	6:AF:245:GLU:OE1	2.57	0.50
6:AF:245:GLU:O	6:AF:246:ARG:OXT	2.29	0.50
7:AG:53:LYS:CG	7:AG:54:ALA:H	2.23	0.50
7:AG:97:GLN:CB	7:AG:106:PHE:CD2	2.91	0.50
8:AH:34:ARG:NH2	8:AH:74:MET:N	2.54	0.50
9:AI:40:ALA:O	9:AI:41:ALA:C	2.54	0.50
9:AJ:61:VAL:O	9:AJ:102:ILE:HG22	2.11	0.50
9:AJ:74:ILE:CG2	11:AL:61:TYR:HE2	2.24	0.50
11:AL:63:ASP:O	11:AL:64:LYS:HB2	2.12	0.50
11:AL:79:LEU:O	11:AL:80:LYS:C	2.54	0.50
11:AL:96:ILE:HG21	21:AV:109:GLN:CD	2.37	0.50
11:AL:113:MET:O	11:AL:114:PRO:O	2.28	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:38:VAL:HG13	13:AN:61:VAL:HG22	1.93	0.50
13:AN:112:MET:O	13:AN:115:ILE:HB	2.12	0.50
15:AP:59:ASN:CG	15:AP:60:ALA:H	2.15	0.50
16:AQ:40:ASN:C	16:AQ:42:HIS:N	2.69	0.50
17:AR:6:CYS:O	17:AR:7:ASP:OD2	2.29	0.50
19:AT:4:VAL:HB	19:AT:40:ALA:CB	2.42	0.50
21:AV:52:PHE:O	21:AV:65:LEU:HD21	2.11	0.50
21:AV:66:VAL:HG21	21:AV:69:VAL:HG21	1.93	0.50
21:AV:111:GLY:O	21:AV:113:VAL:HG22	2.11	0.50
21:AV:112:LEU:HD22	21:AV:142:ASN:HA	1.93	0.50
21:AV:174:PRO:C	21:AV:175:ARG:HG2	2.36	0.50
25:A1:49:ASP:CA	25:A1:52:ASN:ND2	2.69	0.50
25:A1:61:TRP:CZ3	25:A1:97:ASP:OD2	2.64	0.50
27:A3:37:LEU:HG	27:A3:71:ASN:HD22	1.77	0.50
28:A4:44:THR:H	28:A4:61:LYS:HZ1	1.59	0.50
30:A6:35:LEU:N	30:A6:35:LEU:CD2	2.75	0.50
32:A8:40:GLU:O	32:A8:41:ILE:C	2.55	0.50
34:BA:83:U:C4	34:BA:84:U:C4	3.00	0.50
34:BA:101:A:C2	34:BA:102:G:C8	2.99	0.50
34:BA:229:U:C4	34:BA:230:G:C6	3.00	0.50
34:BA:258:G:O2'	34:BA:259:G:C5'	2.60	0.50
34:BA:362:G:N3	34:BA:364:A:N7	2.60	0.50
34:BA:666:G:C2'	34:BA:667:G:H5'	2.42	0.50
34:BA:755:G:C2'	34:BA:756:C:C6	2.93	0.50
34:BA:769:G:N2	34:BA:900:A:H61	2.08	0.50
34:BA:861:G:O2'	34:BA:862:C:H5'	2.12	0.50
34:BA:885:G:C2	34:BA:913:A:C2	3.00	0.50
34:BA:921:U:H2'	34:BA:921:U:O2	2.11	0.50
34:BA:1073:U:C2	34:BA:1102:A:N1	2.79	0.50
34:BA:1108:G:C8	34:BA:1109:C:C5	2.99	0.50
34:BA:1113:C:O5'	34:BA:1113:C:C6	2.52	0.50
34:BA:1117:G:C4	34:BA:1184:G:C2	3.00	0.50
34:BA:1144:G:C2	34:BA:1145:C:O2	2.64	0.50
34:BA:1175:G:N1	34:BA:1176:A:C6	2.80	0.50
34:BA:1246:C:H2'	34:BA:1247:U:H6	1.77	0.50
34:BA:1280:A:C8	45:BM:41:PRO:HG3	2.47	0.50
34:BA:1288:A:N1	34:BA:1371:G:H1'	2.26	0.50
34:BA:1295:G:H21	34:BA:1302:U:H3	1.59	0.50
34:BA:1308:U:P	48:BP:99:ARG:HG3	2.52	0.50
34:BA:1354:C:O5'	34:BA:1354:C:H6	1.93	0.50
34:BA:1368:G:OP1	44:BL:112:LYS:O	2.29	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1375:A:N3	34:BA:1376:U:C6	2.80	0.50
34:BA:1516:G:C2	34:BA:1518:A:OP2	2.64	0.50
35:BB:37:G:H8	35:BB:38:A:OP2	1.94	0.50
37:BE:23:ARG:NH1	37:BE:24:TRP:CA	2.75	0.50
37:BE:90:MET:O	37:BE:91:PRO:C	2.54	0.50
38:BF:52:LEU:O	38:BF:53:ALA:CB	2.59	0.50
38:BF:73:PRO:O	38:BF:76:VAL:CB	2.59	0.50
40:BH:141:GLN:CA	40:BH:143:ARG:HH21	2.07	0.50
41:BI:2:ARG:HG3	41:BI:69:GLU:HG2	1.94	0.50
42:BJ:2:ALA:O	42:BJ:3:ARG:C	2.54	0.50
44:BL:9:ARG:HG2	44:BL:14:VAL:HG13	1.92	0.50
44:BL:11:LYS:NZ	44:BL:108:VAL:HG11	2.26	0.50
47:BO:76:ASN:O	47:BO:77:LEU:HB2	2.11	0.50
47:BO:101:VAL:O	47:BO:104:VAL:CB	2.60	0.50
48:BP:88:ARG:HA	48:BP:91:ARG:HB2	1.94	0.50
1:AB:42:C:C2'	1:AB:43:C:C6	2.93	0.50
1:AB:117:G:N1	1:AB:118:G:C5	2.80	0.50
2:AA:23:G:C2	2:AA:24:G:H1'	2.47	0.50
2:AA:34:C:O4'	20:AU:8:ARG:NH1	2.40	0.50
2:AA:270(F):U:C2	2:AA:270(U):C:N3	2.79	0.50
2:AA:270(W):G:C3'	2:AA:270(X):G:H8	2.24	0.50
2:AA:428:A:H3'	2:AA:429:A:H8	1.75	0.50
2:AA:435:C:C2'	2:AA:436:C:H5'	2.42	0.50
2:AA:445:C:OP1	25:A1:2:PRO:N	2.45	0.50
2:AA:461:C:N4	2:AA:469:G:N2	2.58	0.50
2:AA:514:A:O3'	25:A1:32:TYR:OH	2.19	0.50
2:AA:522:G:H2'	2:AA:523:C:C6	2.46	0.50
2:AA:527:C:C5	2:AA:2779:U:H3'	2.47	0.50
2:AA:592:G:H21	32:A8:3:LYS:HE3	1.76	0.50
2:AA:595:C:H2'	2:AA:596:G:O5'	2.12	0.50
2:AA:671:C:N4	2:AA:809:G:C6	2.77	0.50
2:AA:729:G:C6	2:AA:1775:U:C4	2.99	0.50
2:AA:752:A:N7	2:AA:1781:C:H1'	2.23	0.50
2:AA:762:U:H4'	2:AA:763:G:O5'	2.12	0.50
2:AA:911:A:N9	2:AA:2264:C:H1'	2.21	0.50
2:AA:960:A:H5''	2:AA:961:C:OP1	2.11	0.50
2:AA:992:C:N3	2:AA:993:G:H8	2.10	0.50
2:AA:1024:G:O6	2:AA:1134:G:H1'	2.12	0.50
2:AA:1170:G:N1	2:AA:1180:C:N4	2.60	0.50
2:AA:1180:C:O2'	2:AA:1181:C:C5'	2.60	0.50
2:AA:1203:G:N7	2:AA:1206:G:N7	2.60	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1219:G:C5	2:AA:1231:G:N1	2.79	0.50
2:AA:1475:G:C4	2:AA:1475:G:H3'	2.47	0.50
2:AA:1527:G:O5'	2:AA:1527:G:H8	1.95	0.50
2:AA:1608:A:C6	2:AA:1611:C:H1'	2.47	0.50
2:AA:1640:C:H3'	2:AA:1640:C:OP2	2.11	0.50
2:AA:1658:C:P	5:AE:230:GLY:C	2.94	0.50
2:AA:1670:C:H6	2:AA:1670:C:O5'	1.95	0.50
2:AA:1673:U:C5	2:AA:1675:C:H6	2.29	0.50
2:AA:1685:C:N3	2:AA:1703:G:O6	2.45	0.50
2:AA:1690:A:C2	2:AA:1691:C:C1'	2.94	0.50
2:AA:1965:C:C5'	2:AA:1966:A:H3'	2.41	0.50
2:AA:1993:U:H5''	5:AE:228:ARG:HE	1.75	0.50
2:AA:2018:G:N3	2:AA:2018:G:H2'	2.26	0.50
2:AA:2117:A:N3	2:AA:2118:U:H4'	2.27	0.50
2:AA:2119:A:OP1	2:AA:2120:G:H5''	2.11	0.50
2:AA:2347:C:H4'	30:A6:40:TYR:CZ	2.46	0.50
2:AA:2353:G:O2'	27:A3:30:VAL:O	2.29	0.50
2:AA:2354:G:H4'	27:A3:31:VAL:HG21	1.94	0.50
2:AA:2356:C:H3'	2:AA:2356:C:C6	2.47	0.50
2:AA:2384:G:C2'	2:AA:2385:C:OP1	2.59	0.50
2:AA:2400:G:H8	2:AA:2400:G:O5'	1.94	0.50
2:AA:2489:G:C8	2:AA:2490:G:N7	2.79	0.50
2:AA:2604:U:N3	2:AA:2605:U:C5	2.80	0.50
2:AA:2785:C:HO2'	5:AE:100:TRP:N	2.10	0.50
2:AA:2893:G:P	2:AA:2893:G:O4'	2.69	0.50
3:AC:22:ILE:HD12	3:AC:190:ARG:NH1	2.27	0.50
3:AC:42:GLU:CB	3:AC:173:ALA:O	2.60	0.50
3:AC:123:VAL:HG11	3:AC:138:PRO:CG	2.41	0.50
3:AC:127:LEU:HA	3:AC:130:ILE:HB	1.93	0.50
3:AC:141:LYS:HD3	3:AC:141:LYS:C	2.37	0.50
4:AD:104:ILE:CD1	4:AD:106:PRO:HG2	2.41	0.50
4:AD:175:LEU:CG	4:AD:180:VAL:HA	2.37	0.50
4:AD:209:ASN:C	4:AD:213:LYS:HD3	2.37	0.50
5:AE:74:GLU:OE2	5:AE:74:GLU:N	2.45	0.50
5:AE:211:GLN:NE2	5:AE:215:LYS:CG	2.74	0.50
5:AE:214:VAL:CG1	5:AE:221:LYS:HD2	2.32	0.50
7:AG:56:ARG:HG2	7:AG:65:GLU:HG3	1.93	0.50
8:AH:75:VAL:C	8:AH:77:GLY:N	2.63	0.50
8:AH:163:TYR:CD1	8:AH:163:TYR:N	2.62	0.50
9:AI:7:ILE:HD11	11:AL:118:ALA:N	2.26	0.50
9:AJ:62:VAL:HG22	9:AJ:101:VAL:CG2	2.39	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:19:LYS:CE	10:AK:20:ASN:H	2.25	0.50
10:AK:77:VAL:HG12	10:AK:143:VAL:HG13	1.92	0.50
10:AK:79:ILE:CD1	10:AK:144:HIS:O	2.59	0.50
12:AM:4:ALA:O	12:AM:6:PHE:CE1	2.64	0.50
13:AN:58:VAL:CG1	13:AN:59:LYS:N	2.71	0.50
14:AO:81:VAL:HG22	14:AO:92:ASP:OD2	2.12	0.50
14:AO:92:ASP:H	14:AO:118:LEU:HA	1.76	0.50
14:AO:132:LYS:CD	14:AO:132:LYS:H	2.25	0.50
15:AP:67:ALA:N	15:AP:70:ARG:NH1	2.59	0.50
16:AQ:24:LEU:HA	16:AQ:27:LEU:CB	2.42	0.50
16:AQ:124:ASP:C	16:AQ:126:GLY:N	2.65	0.50
19:AT:7:HIS:N	19:AT:27:ALA:HB3	2.26	0.50
20:AU:31:LEU:HB3	20:AU:101:LEU:CD1	2.35	0.50
21:AV:70:GLN:HG2	21:AV:72:ASP:CG	2.37	0.50
21:AV:117:VAL:HG11	21:AV:167:THR:CG2	2.42	0.50
22:AW:3:LEU:CB	22:AW:8:ILE:HD11	2.26	0.50
24:A0:33:ARG:HB2	24:A0:113:LEU:HD11	1.94	0.50
25:A1:55:ARG:CA	25:A1:58:ARG:HG3	2.34	0.50
25:A1:70:ARG:O	25:A1:71:LEU:C	2.55	0.50
26:A2:49:GLU:O	26:A2:54:TYR:CE1	2.64	0.50
27:A3:26:PHE:HD1	27:A3:26:PHE:N	2.07	0.50
27:A3:35:ASN:C	27:A3:72:LYS:HE3	2.37	0.50
28:A4:58:LYS:HG2	28:A4:62:ARG:HE	1.76	0.50
30:A6:19:GLY:CA	30:A6:42:PRO:CG	2.72	0.50
30:A6:26:LYS:CE	32:A8:35:GLY:CA	2.83	0.50
34:BA:25:C:C4'	34:BA:524:G:H21	2.24	0.50
34:BA:130:A:H8	52:BT:63:ARG:HG3	1.66	0.50
34:BA:219:C:C4	34:BA:220:G:C8	3.00	0.50
34:BA:286:G:C4	34:BA:287:U:C5	2.99	0.50
34:BA:383:A:H2'	34:BA:384:G:C5'	2.42	0.50
34:BA:445:G:H2'	34:BA:446:G:C8	2.41	0.50
34:BA:684:A:H1'	46:BN:39:PRO:HD2	1.94	0.50
34:BA:715:A:O4'	34:BA:777:A:N6	2.45	0.50
34:BA:757:U:H1'	34:BA:879:C:C1'	2.40	0.50
34:BA:809:G:N2	34:BA:810:C:H1'	2.27	0.50
34:BA:922:G:O2'	34:BA:923:A:C5'	2.56	0.50
34:BA:945:G:C2	34:BA:1337:G:C2	3.00	0.50
34:BA:1117:G:H1'	34:BA:1184:G:N2	2.26	0.50
34:BA:1149:C:H2'	34:BA:1280:A:N1	2.27	0.50
34:BA:1379:G:O2'	34:BA:1380:U:H5'	2.12	0.50
34:BA:1421:G:C6	34:BA:1480:G:C6	3.00	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1451:A:C8	34:BA:1451:A:P	3.04	0.50
34:BA:1451:A:C5'	34:BA:1452:C:H5	2.24	0.50
34:BA:1486:G:C6	34:BA:1487:G:C5	3.00	0.50
34:BA:1538:C:H2'	34:BA:1539:C:H6	1.77	0.50
35:BB:15:G:C2'	35:BB:16:U:H5''	2.41	0.50
35:BB:53:G:N3	35:BB:54:U:C5	2.78	0.50
36:B1:23:U:O2	36:B1:31:G:N2	2.29	0.50
37:BE:102:LEU:C	37:BE:103:THR:OG1	2.55	0.50
37:BE:135:GLN:N	37:BE:135:GLN:NE2	2.60	0.50
39:BG:118:ARG:HG3	39:BG:118:ARG:NH2	2.26	0.50
39:BG:119:GLN:HG2	39:BG:123:HIS:HD2	1.76	0.50
39:BG:167:GLY:O	39:BG:168:ARG:C	2.54	0.50
39:BG:191:ARG:HH22	39:BG:196:LEU:HB3	1.76	0.50
40:BH:39:GLY:HA2	40:BH:69:VAL:CG2	2.42	0.50
40:BH:95:ALA:CB	40:BH:96:PRO:HD2	2.38	0.50
41:BI:10:LEU:CD2	41:BI:26:ILE:HD11	2.40	0.50
41:BI:97:PHE:CD2	41:BI:97:PHE:O	2.65	0.50
42:BJ:122:HIS:O	42:BJ:123:GLU:O	2.30	0.50
43:BK:24:THR:N	43:BK:60:ARG:HD2	2.27	0.50
43:BK:39:LEU:HB3	43:BK:45:ILE:HG22	1.85	0.50
43:BK:129:VAL:HG22	43:BK:130:GLY:N	2.22	0.50
44:BL:52:ALA:O	44:BL:95:LYS:CE	2.60	0.50
46:BN:48:ILE:C	46:BN:50:TYR:H	2.20	0.50
48:BP:108:ARG:O	48:BP:109:THR:C	2.55	0.50
49:BQ:4:LYS:HA	49:BQ:7:ILE:CD1	2.42	0.50
49:BQ:25:VAL:CB	49:BQ:38:GLY:O	2.60	0.50
49:BQ:42:ILE:O	49:BQ:43:CYS:C	2.54	0.50
54:BV:46:GLY:N	54:BV:62:ILE:CG2	2.70	0.50
54:BV:53:ASN:ND2	54:BV:53:ASN:N	2.59	0.50
55:BW:50:GLU:O	55:BW:54:LYS:HG3	2.12	0.50
1:AB:27:C:N3	1:AB:28:C:N3	2.60	0.49
1:AB:28:C:O2'	1:AB:29:A:O4'	2.24	0.49
1:AB:78:A:P	21:AV:73:LYS:HZ1	2.35	0.49
2:AA:30:G:H2'	2:AA:31:C:O4'	2.12	0.49
2:AA:30:G:OP1	25:A1:8:ILE:HD11	2.12	0.49
2:AA:71:A:O2'	19:AT:2:TRP:HZ2	1.95	0.49
2:AA:138:G:H2'	2:AA:140:A:OP2	2.12	0.49
2:AA:194:G:N3	2:AA:194:G:H2'	2.27	0.49
2:AA:221:A:O2'	2:AA:271(B):G:N1	2.44	0.49
2:AA:343:C:H2'	2:AA:344:G:O4'	2.11	0.49
2:AA:459:U:OP1	31:A7:40:HIS:N	2.45	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:564:C:H41	2:AA:573:G:C5'	2.25	0.49
2:AA:576:U:H2'	2:AA:577:G:C8	2.46	0.49
2:AA:588:U:C5	2:AA:589:C:C5	2.90	0.49
2:AA:606:U:OP1	6:AF:104:ASP:CB	2.53	0.49
2:AA:650:C:C2'	2:AA:651:G:H5'	2.42	0.49
2:AA:702:G:N1	2:AA:731:C:C4	2.80	0.49
2:AA:776:G:N3	2:AA:793:A:C6	2.80	0.49
2:AA:779:U:C4	2:AA:780:G:C6	3.00	0.49
2:AA:806:C:O3'	2:AA:830:G:N2	2.45	0.49
2:AA:857:C:N4	2:AA:920:G:N1	2.43	0.49
2:AA:914:C:C2'	2:AA:915:C:H5'	2.37	0.49
2:AA:943:U:C6	2:AA:943:U:C3'	2.95	0.49
2:AA:1021:A:C8	12:AM:49:ARG:NH1	2.80	0.49
2:AA:1062:G:C4	11:AL:134:SER:OG	2.65	0.49
2:AA:1104:C:H1'	9:AI:29:PHE:CD2	2.46	0.49
2:AA:1152:C:C5'	25:A1:80:ILE:HB	2.42	0.49
2:AA:1279:G:H5'	24:A0:31:HIS:CD2	2.46	0.49
2:AA:1341:U:H2'	19:AT:53:ASN:OD1	2.12	0.49
2:AA:1517:G:H2'	2:AA:1518:C:H5'	1.93	0.49
2:AA:1518:C:N3	2:AA:1519:G:H1'	2.27	0.49
2:AA:1608:A:C4	2:AA:1611:C:C5	2.99	0.49
2:AA:1672:C:C5	2:AA:1673:U:C5	3.00	0.49
2:AA:1772:G:C2	2:AA:1980:G:C2	3.00	0.49
2:AA:1807:G:H21	2:AA:1809:A:C4'	2.25	0.49
2:AA:1829:A:H5'	2:AA:1830:C:OP2	2.11	0.49
2:AA:1843:C:C2	2:AA:1844:C:H5	2.29	0.49
2:AA:1846:G:H2'	2:AA:1847:A:O4'	2.12	0.49
2:AA:1939:U:OP2	2:AA:1939:U:O3'	2.30	0.49
2:AA:2018:G:C2'	2:AA:2019:A:O5'	2.59	0.49
2:AA:2074:U:O2	2:AA:2074:U:C2'	2.59	0.49
2:AA:2074:U:N3	2:AA:2075:U:O4	2.45	0.49
2:AA:2095:C:N3	2:AA:2194:G:C6	2.75	0.49
2:AA:2135:A:C2'	2:AA:2152:G:N7	2.64	0.49
2:AA:2138:C:C2	2:AA:2139:C:C6	3.00	0.49
2:AA:2218:G:C4	2:AA:2219:G:C8	3.00	0.49
2:AA:2250:G:H5'	15:AP:102:ARG:CD	2.39	0.49
2:AA:2364:C:H5'	27:A3:38:VAL:HG13	1.94	0.49
2:AA:2478:A:C8	2:AA:2478:A:H3'	2.47	0.49
2:AA:2515:C:N4	2:AA:2570:G:O6	2.45	0.49
2:AA:2553:G:C6	2:AA:2554:U:O2	2.65	0.49
2:AA:2688:U:H1'	2:AA:2721:A:N6	2.27	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:41:VAL:HA	3:AC:215:THR:O	2.12	0.49
3:AC:116:THR:HG22	3:AC:149:ILE:CB	2.37	0.49
3:AC:184:LYS:HA	3:AC:187:ASP:HB2	1.94	0.49
4:AD:81:GLU:O	4:AD:90:ILE:O	2.28	0.49
4:AD:174:ARG:NE	4:AD:180:VAL:CG1	2.75	0.49
5:AE:207:GLY:HA2	5:AE:257:GLY:C	2.37	0.49
5:AE:222:ARG:HD3	5:AE:232:ARG:HA	1.94	0.49
5:AE:269:ILE:HD12	5:AE:296:VAL:HA	1.93	0.49
5:AE:319:ASP:O	5:AE:320:GLN:O	2.29	0.49
6:AF:195:VAL:HG21	6:AF:235:PHE:CG	2.47	0.49
6:AF:197:SER:CB	6:AF:239:ALA:H	2.17	0.49
7:AG:36:ASN:O	7:AG:37:ALA:C	2.55	0.49
8:AH:12:ALA:O	8:AH:14:VAL:N	2.45	0.49
8:AH:121:GLU:OE2	8:AH:133:LYS:O	2.30	0.49
8:AH:164:GLU:OE1	8:AH:164:GLU:HA	1.93	0.49
9:AI:2:THR:OG1	9:AI:5:GLU:HG3	2.12	0.49
9:AI:111:ALA:HA	9:AI:114:ILE:HD12	1.94	0.49
9:AJ:86:LYS:HE3	11:AL:10:LYS:CG	2.30	0.49
10:AK:84:GLY:C	10:AK:147:GLU:OE2	2.55	0.49
10:AK:141:LEU:CD1	10:AK:143:VAL:HG23	2.41	0.49
11:AL:51:GLY:O	11:AL:81:LYS:CE	2.60	0.49
11:AL:99:LYS:HD2	11:AL:99:LYS:H	1.76	0.49
12:AM:29:GLN:O	12:AM:30:ALA:O	2.30	0.49
14:AO:62:ALA:H	14:AO:107:LYS:HG3	1.77	0.49
15:AP:26:LYS:O	15:AP:28:ILE:HG12	2.12	0.49
15:AP:72:VAL:HG22	15:AP:135:ALA:HB1	1.94	0.49
15:AP:129:ASP:OD1	15:AP:129:ASP:O	2.30	0.49
17:AR:14:GLU:CB	17:AR:15:PRO:HD2	2.31	0.49
18:AS:23:LEU:HD11	29:A5:26:THR:C	2.36	0.49
18:AS:66:GLU:HG2	18:AS:67:ASP:N	2.26	0.49
18:AS:69:LEU:HD23	18:AS:109:GLU:CB	2.40	0.49
18:AS:86:LEU:HB3	18:AS:87:PRO:HD2	1.93	0.49
19:AT:24:LEU:HD12	19:AT:24:LEU:N	2.27	0.49
21:AV:37:LYS:CA	21:AV:40:ASP:CG	2.85	0.49
21:AV:142:ASN:O	21:AV:171:VAL:CG2	2.56	0.49
22:AW:15:GLU:O	22:AW:16:ARG:C	2.55	0.49
24:A0:97:VAL:C	24:A0:98:LEU:CG	2.83	0.49
25:A1:50:ARG:CZ	26:A2:74:TYR:CD2	2.92	0.49
25:A1:79:PHE:HB3	25:A1:83:LEU:CD1	2.42	0.49
25:A1:115:ASN:ND2	25:A1:115:ASN:H	2.10	0.49
26:A2:5:ILE:O	26:A2:40:VAL:CG2	2.60	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:A3:24:LYS:O	27:A3:25:LYS:HB2	2.12	0.49
28:A4:23:GLU:C	28:A4:25:MET:N	2.70	0.49
34:BA:67:C:H4'	34:BA:172:A:O4'	2.12	0.49
34:BA:115:G:C2	34:BA:289:G:C8	3.00	0.49
34:BA:118:U:C3'	34:BA:288:A:H61	2.13	0.49
34:BA:300:A:C2'	34:BA:301:G:C5'	2.80	0.49
34:BA:392:G:H5''	51:BS:12:LYS:HZ3	1.77	0.49
34:BA:409:G:H4'	39:BG:24:GLU:OE2	2.12	0.49
34:BA:478:A:C8	34:BA:478:A:C3'	2.95	0.49
34:BA:486:U:O2	34:BA:486:U:C2'	2.61	0.49
34:BA:499:A:C4	34:BA:547:A:N1	2.80	0.49
34:BA:541:G:H2'	34:BA:542:G:C8	2.46	0.49
34:BA:620:C:O2'	34:BA:621:A:H5'	2.12	0.49
34:BA:689:C:H2'	34:BA:690:G:O5'	2.12	0.49
34:BA:691:G:H22	46:BN:52:GLY:HA2	1.76	0.49
34:BA:975:A:O5'	34:BA:976:G:H5'	2.12	0.49
34:BA:1064:G:H1'	34:BA:1066:C:C2	2.46	0.49
34:BA:1068:G:N7	34:BA:1094:G:N7	2.60	0.49
34:BA:1226:C:O2'	34:BA:1227:A:P	2.70	0.49
34:BA:1240:U:C4	42:BJ:32:ARG:NH2	2.80	0.49
34:BA:1256:A:H2	34:BA:1258:G:N1	2.10	0.49
34:BA:1400:C:C1'	35:BC:34:G:N2	2.72	0.49
36:B1:14:U:H5''	36:B1:38:C:N3	2.27	0.49
37:BE:25:ASN:ND2	37:BE:25:ASN:C	2.68	0.49
37:BE:68:ILE:HG21	37:BE:70:PHE:CZ	2.47	0.49
37:BE:152:PHE:O	37:BE:153:ARG:C	2.55	0.49
37:BE:180:LEU:O	37:BE:181:PHE:CB	2.52	0.49
38:BF:188:LEU:HD13	38:BF:189:ALA:H	1.77	0.49
39:BG:170:VAL:HG12	39:BG:174:LEU:HB2	1.94	0.49
40:BH:95:ALA:O	40:BH:96:PRO:O	2.29	0.49
41:BI:1:MET:SD	41:BI:67:MET:C	2.95	0.49
41:BI:75:LEU:HD22	41:BI:79:LEU:HD21	1.93	0.49
42:BJ:146:GLU:CG	42:BJ:149:ARG:NH2	2.58	0.49
43:BK:6:ILE:HG13	43:BK:85:ARG:CZ	2.42	0.49
43:BK:9:MET:CG	43:BK:26:VAL:HG21	2.41	0.49
43:BK:54:ASP:C	43:BK:56:LYS:H	2.19	0.49
43:BK:111:ILE:HB	43:BK:135:CYS:O	2.11	0.49
44:BL:3:GLN:HB2	44:BL:20:ARG:CG	2.42	0.49
46:BN:45:GLY:C	46:BN:55:LYS:HG2	2.37	0.49
48:BP:96:LEU:CA	48:BP:110:ARG:HG2	2.42	0.49
52:BT:19:VAL:HG21	52:BT:46:ASP:HB2	1.93	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:36:ILE:O	52:BT:36:ILE:HG12	2.11	0.49
1:AB:9:G:OP1	16:AQ:37:ARG:NH2	2.45	0.49
1:AB:72:G:H21	1:AB:104:A:H62	1.60	0.49
2:AA:247:G:N2	32:A8:8:LYS:CE	2.75	0.49
2:AA:250:G:H3'	32:A8:8:LYS:HZ3	1.76	0.49
2:AA:270:A:N6	2:AA:424:G:C5	2.80	0.49
2:AA:310:A:OP1	20:AU:52:ARG:HB3	2.12	0.49
2:AA:385:C:H42	2:AA:391:G:H1	1.59	0.49
2:AA:447:A:O2'	2:AA:448:U:C5'	2.61	0.49
2:AA:502:A:C2'	2:AA:503:A:H5'	2.42	0.49
2:AA:583:G:C6	2:AA:584:C:C5	3.00	0.49
2:AA:878:A:C4	2:AA:879:G:C8	2.99	0.49
2:AA:892:G:C6	2:AA:893:C:C4	3.00	0.49
2:AA:899:A:N1	2:AA:900:A:C2	2.80	0.49
2:AA:911:A:OP1	2:AA:912:C:H6	1.95	0.49
2:AA:950:G:C4	2:AA:951:C:C5	3.00	0.49
2:AA:989:G:HO2'	2:AA:990:A:P	2.35	0.49
2:AA:1022:G:O5'	12:AM:52:GLN:CD	2.55	0.49
2:AA:1087:G:N3	2:AA:1103:A:C4	2.80	0.49
2:AA:1287:A:C6	2:AA:1649:G:C1'	2.95	0.49
2:AA:1395:A:C6	2:AA:1398:C:C2	3.00	0.49
2:AA:1472:A:C6	2:AA:1473:G:O6	2.65	0.49
2:AA:1529:A:C4	2:AA:1530:G:O4'	2.65	0.49
2:AA:1572:A:OP1	2:AA:1572:A:O4'	2.31	0.49
2:AA:1668:A:C3'	2:AA:1669:A:H5'	2.43	0.49
2:AA:1683:C:C4	2:AA:1684:C:N4	2.79	0.49
2:AA:1792:G:C6	2:AA:1793:C:C5	3.00	0.49
2:AA:1806:C:C4	2:AA:1807:G:C8	2.99	0.49
2:AA:1818:U:C5	4:AD:155:ARG:NH2	2.80	0.49
2:AA:1819:A:H1'	2:AA:1821:A:N7	2.27	0.49
2:AA:1918:A:H8	2:AA:1918:A:P	2.34	0.49
2:AA:1921:G:O2'	2:AA:1922:G:H5'	2.12	0.49
2:AA:1978:A:C6	2:AA:1979:C:C4	3.00	0.49
2:AA:2030:A:O2'	2:AA:2031:A:O5'	2.29	0.49
2:AA:2148:G:OP2	2:AA:2149:G:OP2	2.30	0.49
2:AA:2156:G:O5'	2:AA:2156:G:H8	1.91	0.49
2:AA:2253:G:H2'	2:AA:2254:C:C5	2.43	0.49
2:AA:2287:A:C2'	2:AA:2288:A:O5'	2.60	0.49
2:AA:2306:C:C2	7:AG:27:ILE:HA	2.47	0.49
2:AA:2376:A:H61	16:AQ:109:PRO:HG2	1.77	0.49
2:AA:2424:C:H5'	2:AA:2425:A:C5'	2.37	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2489:G:O2'	2:AA:2490:G:O4'	2.29	0.49
2:AA:2553:G:C8	2:AA:2554:U:O4'	2.65	0.49
2:AA:2603:G:H2'	2:AA:2604:U:O4'	2.12	0.49
2:AA:2611:U:O2	29:A5:2:ALA:HA	2.12	0.49
2:AA:2649:U:C2	2:AA:2672:G:N2	2.80	0.49
2:AA:2783:G:O2'	2:AA:2784:C:H5'	2.11	0.49
2:AA:2844:G:C4	2:AA:2845:G:C8	2.99	0.49
3:AC:91:ALA:C	3:AC:92:ASP:OD1	2.55	0.49
5:AE:71:THR:OG1	5:AE:299:SER:CB	2.61	0.49
5:AE:109:ASP:OD1	5:AE:112:LEU:CB	2.60	0.49
5:AE:214:VAL:O	5:AE:217:TRP:C	2.55	0.49
5:AE:256:THR:HB	5:AE:259:HIS:CE1	2.47	0.49
6:AF:145:GLU:HG3	6:AF:196:THR:CG2	2.41	0.49
7:AG:13:MET:HG3	7:AG:137:PRO:CG	2.41	0.49
7:AG:13:MET:HB3	7:AG:14:ARG:HD2	1.94	0.49
7:AG:63:ILE:CG2	7:AG:64:ARG:N	2.75	0.49
7:AG:105:SER:OG	7:AG:131:THR:CA	2.56	0.49
7:AG:140:ARG:O	7:AG:141:VAL:C	2.53	0.49
9:AI:106:VAL:CG1	9:AI:110:GLU:HB2	2.42	0.49
10:AK:21:VAL:O	10:AK:22:ALA:O	2.30	0.49
10:AK:83:ALA:O	10:AK:90:PHE:CZ	2.65	0.49
10:AK:126:TYR:HD1	10:AK:126:TYR:H	1.60	0.49
10:AK:148:GLN:OE1	10:AK:149:LYS:N	2.45	0.49
13:AN:34:ASN:C	13:AN:62:VAL:CG1	2.82	0.49
13:AN:106:LEU:H	13:AN:106:LEU:CD2	2.20	0.49
14:AO:133:VAL:O	14:AO:134:GLU:C	2.53	0.49
15:AP:25:GLY:C	15:AP:27:GLY:H	2.20	0.49
16:AQ:16:ALA:O	16:AQ:18:THR:N	2.30	0.49
16:AQ:61:ALA:O	16:AQ:62:HIS:ND1	2.45	0.49
17:AR:23:HIS:ND1	17:AR:23:HIS:C	2.70	0.49
19:AT:32:ALA:HB1	19:AT:36:GLU:HB2	1.93	0.49
19:AT:56:ASN:ND2	19:AT:62:LYS:HE3	2.19	0.49
19:AT:72:ASP:HB2	19:AT:75:GLN:HE21	1.75	0.49
21:AV:51:LEU:HD23	21:AV:51:LEU:C	2.37	0.49
21:AV:86:VAL:O	21:AV:128:ARG:HD3	2.12	0.49
22:AW:4:HIS:O	22:AW:7:GLU:OE2	2.30	0.49
22:AW:6:GLN:O	22:AW:9:ARG:CB	2.60	0.49
22:AW:60:GLN:CD	22:AW:61:GLY:N	2.70	0.49
24:A0:101:ALA:HB2	29:A5:44:HIS:CB	2.40	0.49
25:A1:79:PHE:O	25:A1:83:LEU:CB	2.47	0.49
26:A2:20:ILE:CD1	26:A2:67:LYS:HZ3	2.26	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:38:LEU:HA	26:A2:58:ALA:HB2	1.92	0.49
27:A3:4:LYS:HZ1	27:A3:11:LYS:HZ1	1.58	0.49
28:A4:18:GLY:N	28:A4:33:VAL:HB	2.27	0.49
28:A4:25:MET:O	28:A4:26:SER:OG	2.26	0.49
31:A7:33:ARG:O	31:A7:37:LYS:CB	2.59	0.49
34:BA:50:A:C6	34:BA:361:G:O4'	2.66	0.49
34:BA:61:G:C6	34:BA:62:U:N3	2.80	0.49
34:BA:101:A:C2	34:BA:102:G:N7	2.80	0.49
34:BA:161:A:O2'	34:BA:162:A:H5'	2.12	0.49
34:BA:195:A:H4'	55:BW:68:LYS:CE	2.42	0.49
34:BA:238:G:C2	34:BA:239:U:C2	3.01	0.49
34:BA:276:G:O3'	52:BT:68:ARG:NH1	2.38	0.49
34:BA:319:G:O2'	34:BA:320:C:C5'	2.59	0.49
34:BA:325:A:H2'	34:BA:326:G:C5'	2.43	0.49
34:BA:439:A:H2'	34:BA:440:A:O5'	2.12	0.49
34:BA:575:G:N2	34:BA:880:C:N3	2.45	0.49
34:BA:597:G:C5	34:BA:598:U:C5	3.00	0.49
34:BA:614:A:H2'	34:BA:615:C:O4'	2.12	0.49
34:BA:627:G:O2'	34:BA:628:G:C5'	2.60	0.49
34:BA:670:G:C2'	34:BA:671:G:O5'	2.60	0.49
34:BA:673:G:O2'	34:BA:674:G:C8	2.63	0.49
34:BA:708:C:C2'	34:BA:709:G:H5'	2.41	0.49
34:BA:735:C:H2'	34:BA:736:C:O5'	2.12	0.49
34:BA:812:C:O2'	34:BA:813:U:P	2.70	0.49
34:BA:929:G:C6	34:BA:930:C:C4	3.00	0.49
34:BA:952:U:H5'	34:BA:972:C:N4	2.21	0.49
34:BA:1062:U:C2	34:BA:1063:C:N4	2.80	0.49
34:BA:1240:U:N1	42:BJ:32:ARG:NH2	2.55	0.49
34:BA:1269:A:C8	34:BA:1313:U:O2'	2.57	0.49
34:BA:1334:G:H2'	34:BA:1335:C:C5'	2.42	0.49
34:BA:1440:C:C2'	34:BA:1441:G:H8	2.25	0.49
34:BA:1468:A:C8	34:BA:1468:A:H3'	2.47	0.49
34:BA:1475:G:C2	34:BA:1476:G:C4	3.00	0.49
34:BA:1497:G:O2'	34:BA:1519:A:H2	1.95	0.49
35:BB:74:C:C5	35:BB:75:C:C1'	2.94	0.49
37:BE:135:GLN:N	37:BE:135:GLN:HE21	2.09	0.49
38:BF:43:LEU:HD21	38:BF:68:VAL:HG21	1.94	0.49
38:BF:121:ALA:HB2	38:BF:187:ALA:HB3	1.94	0.49
39:BG:19:LEU:HB3	39:BG:21:LEU:HD12	1.94	0.49
39:BG:58:LEU:HD13	39:BG:58:LEU:C	2.36	0.49
40:BH:50:GLU:HB2	40:BH:53:LEU:CD2	2.42	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:78:HIS:CD2	40:BH:142:LEU:HD23	2.46	0.49
40:BH:143:ARG:NH1	43:BK:77:GLU:OE1	2.45	0.49
42:BJ:146:GLU:HG2	42:BJ:149:ARG:NE	2.26	0.49
45:BM:32:ALA:O	45:BM:33:GLN:CG	2.56	0.49
45:BM:72:VAL:HG12	45:BM:73:ASP:N	2.26	0.49
46:BN:14:VAL:O	46:BN:15:ALA:HB3	2.12	0.49
47:BO:53:ARG:NH1	47:BO:93:LEU:CD2	2.53	0.49
48:BP:9:ILE:N	48:BP:10:PRO:CD	2.74	0.49
48:BP:19:LEU:CD1	48:BP:25:ILE:HG21	2.42	0.49
48:BP:29:ARG:HH11	48:BP:66:LEU:CD2	2.26	0.49
48:BP:36:LYS:CB	48:BP:59:TYR:OH	2.60	0.49
50:BR:49:ASP:OD1	50:BR:49:ASP:O	2.30	0.49
50:BR:75:PRO:HA	50:BR:78:TYR:CB	2.42	0.49
51:BS:28:ARG:CD	51:BS:29:ASP:OD2	2.46	0.49
51:BS:57:ARG:O	51:BS:58:TYR:C	2.53	0.49
52:BT:10:VAL:O	52:BT:53:LEU:CD1	2.58	0.49
54:BV:47:HIS:N	54:BV:62:ILE:CG2	2.75	0.49
55:BW:48:LYS:O	55:BW:49:ALA:O	2.30	0.49
1:AB:53:A:N3	1:AB:53:A:H2'	2.25	0.49
1:AB:70:C:C4	1:AB:71:C:C5	3.00	0.49
1:AB:71:C:C2	1:AB:105:G:N2	2.76	0.49
2:AA:68:G:C5	2:AA:69:C:C5	3.00	0.49
2:AA:89:G:OP2	2:AA:91:A:OP1	2.29	0.49
2:AA:270(A):A:C5'	2:AA:270(B):A:OP2	2.59	0.49
2:AA:270(L):U:C4'	2:AA:270(M):U:OP1	2.57	0.49
2:AA:316:C:OP2	2:AA:316:C:H6	1.95	0.49
2:AA:482:A:C5	2:AA:506:G:N2	2.80	0.49
2:AA:506:G:O2'	2:AA:507:A:H8	1.93	0.49
2:AA:540:G:C6	2:AA:541:C:N4	2.81	0.49
2:AA:551:G:H5'	2:AA:552:G:OP2	2.12	0.49
2:AA:570:G:C6	2:AA:2030:A:H2	2.30	0.49
2:AA:693:C:C2'	2:AA:694:U:O5'	2.61	0.49
2:AA:701:G:C2	2:AA:731:C:N3	2.75	0.49
2:AA:763:G:O2'	2:AA:765:G:H5'	2.11	0.49
2:AA:772:C:C2	2:AA:773:U:C5	3.00	0.49
2:AA:808:G:O2'	2:AA:809:G:O5'	2.30	0.49
2:AA:827:U:P	2:AA:2429:G:OP2	2.70	0.49
2:AA:890:A:C4'	2:AA:892:G:H5'	2.40	0.49
2:AA:899:A:O2'	2:AA:900:A:H5'	2.11	0.49
2:AA:941:A:H2'	2:AA:942:G:C8	2.47	0.49
2:AA:980:A:C2	2:AA:2037:G:O2'	2.56	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1022:G:P	12:AM:52:GLN:HE22	2.35	0.49
2:AA:1034:G:C6	2:AA:1035:U:C4	3.00	0.49
2:AA:1071:G:H2'	2:AA:1072:C:H5''	1.94	0.49
2:AA:1179:C:H3'	2:AA:1179:C:P	2.52	0.49
2:AA:1281:G:C4	2:AA:1282:U:C5	3.00	0.49
2:AA:1283:G:N2	2:AA:1285:G:H3'	2.27	0.49
2:AA:1341:U:O2'	19:AT:53:ASN:CG	2.54	0.49
2:AA:1363:C:C1'	2:AA:1810:A:H1'	2.33	0.49
2:AA:1365:A:C5	2:AA:1366:A:N7	2.79	0.49
2:AA:1368:G:C2'	2:AA:1369:G:H5'	2.42	0.49
2:AA:1388:G:C2	2:AA:1389:G:C1'	2.95	0.49
2:AA:1403:C:C2'	2:AA:1404:C:O5'	2.58	0.49
2:AA:1444:G:C2'	2:AA:1445:C:C5	2.95	0.49
2:AA:1535:U:H5''	2:AA:1536:A:C5'	2.42	0.49
2:AA:1612:C:C2'	31:A7:3:ARG:NE	2.62	0.49
2:AA:1625:C:O2'	2:AA:1626:G:C5'	2.59	0.49
2:AA:1665:A:C2	2:AA:1666:G:C5	3.00	0.49
2:AA:1702:G:C6	2:AA:1703:G:N7	2.80	0.49
2:AA:1775:U:H2'	2:AA:1776:G:O4'	2.12	0.49
2:AA:1782:C:N4	2:AA:2587:A:H62	2.09	0.49
2:AA:1965:C:C4	2:AA:1966:A:N6	2.80	0.49
2:AA:2121:G:OP2	2:AA:2121:G:H8	1.95	0.49
2:AA:2146:C:O4'	2:AA:2146:C:P	2.70	0.49
2:AA:2331:G:C3'	27:A3:70:ILE:HB	2.42	0.49
2:AA:2348:U:O2'	2:AA:2349:G:H5'	2.12	0.49
2:AA:2422:A:O2'	2:AA:2424:C:C6	2.65	0.49
2:AA:2460:U:C4	2:AA:2461:C:N4	2.79	0.49
2:AA:2584:U:C2'	2:AA:2585:U:OP1	2.60	0.49
2:AA:2709:G:H2'	2:AA:2710:C:C5'	2.42	0.49
2:AA:2714:G:C2'	2:AA:2715:C:H5'	2.42	0.49
2:AA:2720:U:C2'	2:AA:2721:A:H8	2.25	0.49
2:AA:2752:C:O2	2:AA:2752:C:C2'	2.61	0.49
2:AA:2761:G:H2'	2:AA:2762:G:C5'	2.43	0.49
2:AA:2834:G:C5	2:AA:2879:C:C2	3.00	0.49
2:AA:2848:G:H22	2:AA:2867:G:C2'	2.24	0.49
2:AA:2851:A:C2	2:AA:2852:G:C1'	2.95	0.49
3:AC:20:TYR:CE1	3:AC:222:VAL:HG13	2.47	0.49
3:AC:83:ILE:HG23	3:AC:94:VAL:HG11	1.94	0.49
4:AD:181:ARG:NH1	4:AD:181:ARG:CB	2.56	0.49
5:AE:179:ASP:O	5:AE:183:ASP:OD1	2.29	0.49
5:AE:247:ARG:CD	5:AE:249:THR:HG21	2.42	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:214:THR:C	6:AF:216:SER:N	2.70	0.49
7:AG:78:GLU:O	7:AG:82:GLU:OE2	2.30	0.49
8:AH:101:LYS:NZ	8:AH:115:GLU:CB	2.75	0.49
9:AI:15:VAL:HG22	9:AI:48:ALA:C	2.38	0.49
9:AI:61:VAL:O	9:AI:102:ILE:N	2.45	0.49
9:AJ:106:VAL:CG1	9:AJ:110:GLU:HB2	2.42	0.49
10:AK:26:ALA:HA	10:AK:30:LEU:HD12	1.95	0.49
11:AL:112:LYS:C	11:AL:114:PRO:CD	2.83	0.49
12:AM:10:VAL:CG2	12:AM:36:VAL:HG22	2.42	0.49
12:AM:41:ALA:HB1	12:AM:75:PRO:CG	2.42	0.49
13:AN:21:VAL:CG1	13:AN:22:ILE:H	2.23	0.49
13:AN:110:ASP:C	13:AN:111:PHE:CG	2.91	0.49
16:AQ:24:LEU:HA	16:AQ:33:ARG:NH2	2.17	0.49
17:AR:10:GLY:N	17:AR:52:THR:CB	2.68	0.49
18:AS:8:ARG:HD2	18:AS:9:TYR:CD1	2.47	0.49
20:AU:68:ASP:O	20:AU:70:ALA:N	2.44	0.49
20:AU:101:LEU:HD22	20:AU:103:LEU:CD2	2.42	0.49
21:AV:48:THR:O	21:AV:49:THR:HG23	2.11	0.49
21:AV:103:ARG:CZ	21:AV:139:THR:HA	2.42	0.49
21:AV:127:PRO:O	21:AV:129:ARG:N	2.44	0.49
24:A0:14:SER:O	24:A0:17:ARG:N	2.45	0.49
24:A0:87:TYR:CD1	24:A0:94:TYR:CD2	3.00	0.49
25:A1:12:ARG:O	25:A1:13:ARG:C	2.53	0.49
25:A1:21:ALA:CB	25:A1:24:PHE:CZ	2.93	0.49
27:A3:24:LYS:O	27:A3:26:PHE:CE1	2.64	0.49
27:A3:78:PHE:C	27:A3:79:ILE:HG13	2.33	0.49
28:A4:45:GLY:O	28:A4:73:LYS:NZ	2.45	0.49
30:A6:52:GLU:O	30:A6:53:LYS:C	2.56	0.49
31:A7:4:THR:C	31:A7:6:GLN:NE2	2.66	0.49
34:BA:16:A:O2'	40:BH:16:THR:HA	2.12	0.49
34:BA:74:C:N3	34:BA:97:G:C2	2.80	0.49
34:BA:78:G:C2	34:BA:92:C:N3	2.80	0.49
34:BA:102:G:H2'	34:BA:103:C:C6	2.47	0.49
34:BA:175:C:O2	34:BA:176:C:C6	2.65	0.49
34:BA:225:C:O2	34:BA:226:G:O4'	2.29	0.49
34:BA:292:G:P	34:BA:305:G:H22	2.34	0.49
34:BA:523:A:O2'	34:BA:524:G:H3'	2.11	0.49
34:BA:542:G:N1	34:BA:543:C:C4	2.80	0.49
34:BA:564:C:O4'	52:BT:32:TYR:CE2	2.66	0.49
34:BA:566:G:H4'	34:BA:567:G:C5'	2.43	0.49
34:BA:590:C:C5'	43:BK:30:ARG:HG3	2.42	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:592:G:H2'	34:BA:593:G:C5'	2.41	0.49
34:BA:675:A:H1'	46:BN:116:HIS:CE1	2.48	0.49
34:BA:688:G:N1	34:BA:699:C:N4	2.56	0.49
34:BA:703:G:H8	34:BA:703:G:P	2.35	0.49
34:BA:706:A:C4'	46:BN:29:ILE:CD1	2.90	0.49
34:BA:814:A:HO2'	34:BA:815:A:C5'	2.24	0.49
34:BA:878:G:H2'	34:BA:879:C:O4'	2.11	0.49
34:BA:1125:U:O4	45:BM:5:ARG:CZ	2.60	0.49
34:BA:1148:U:C5	34:BA:1149:C:C4	3.00	0.49
34:BA:1165:C:C5	34:BA:1166:G:N7	2.80	0.49
34:BA:1169:A:N7	34:BA:1171:G:C4	2.80	0.49
34:BA:1237:C:C4'	34:BA:1334:G:H21	2.23	0.49
34:BA:1342:C:O2'	44:BL:124:GLN:CB	2.59	0.49
34:BA:1344:C:H4'	44:BL:120:ARG:HB3	1.94	0.49
34:BA:1363:A:N3	34:BA:1365:G:O6	2.46	0.49
34:BA:1450:U:C2	34:BA:1454:G:N1	2.80	0.49
35:BC:33:U:C6	35:BC:33:U:O5'	2.65	0.49
35:BC:42:G:H2'	35:BC:43:G:O4'	2.13	0.49
35:BC:59:U:O2	35:BC:59:U:C2'	2.60	0.49
36:B1:41:U:O2	36:B1:42:G:C8	2.65	0.49
37:BE:32:ILE:CD1	37:BE:40:HIS:CD2	2.94	0.49
37:BE:82:ARG:CD	37:BE:92:TYR:OH	2.56	0.49
37:BE:93:VAL:HG11	37:BE:97:TRP:HA	1.94	0.49
37:BE:104:ASN:HD22	37:BE:108:ILE:HD11	1.78	0.49
38:BF:27:LYS:C	38:BF:30:ARG:HH12	2.19	0.49
38:BF:38:ARG:HG3	38:BF:38:ARG:NH1	2.26	0.49
38:BF:39:ILE:O	38:BF:43:LEU:HB2	2.13	0.49
40:BH:18:ARG:HH21	40:BH:25:ARG:HB2	1.77	0.49
42:BJ:100:ALA:HA	42:BJ:103:TRP:HE3	1.77	0.49
43:BK:6:ILE:CG2	43:BK:85:ARG:NH1	2.76	0.49
43:BK:39:LEU:O	43:BK:44:PHE:HB2	2.12	0.49
44:BL:37:PHE:HD1	44:BL:43:ALA:HA	1.77	0.49
44:BL:111:ARG:O	44:BL:119:ALA:CB	2.57	0.49
45:BM:5:ARG:HA	45:BM:73:ASP:OD1	2.12	0.49
45:BM:24:VAL:CG1	45:BM:34:VAL:HG11	2.40	0.49
46:BN:62:GLN:O	46:BN:64:ALA:N	2.45	0.49
47:BO:9:GLN:O	47:BO:10:LEU:C	2.53	0.49
48:BP:14:ARG:HG2	48:BP:44:ARG:CZ	2.41	0.49
48:BP:81:LEU:HD11	48:BP:88:ARG:HH21	1.69	0.49
50:BR:17:ARG:HD3	50:BR:77:ARG:HE	1.77	0.49
50:BR:44:LYS:C	50:BR:45:VAL:O	2.49	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:75:ARG:HG3	51:BS:80:PHE:CG	2.47	0.49
53:BU:45:SER:N	53:BU:51:LEU:HD11	2.27	0.49
54:BV:24:ALA:C	54:BV:26:GLY:N	2.65	0.49
55:BW:14:LYS:O	55:BW:18:GLN:HG3	2.12	0.49
1:AB:7:G:H2'	1:AB:8:U:O4'	2.12	0.49
1:AB:70:C:N3	1:AB:71:C:C5	2.80	0.49
1:AB:96:G:C6	1:AB:97:G:C5	3.01	0.49
1:AB:97:G:C2	2:AA:918:A:O2'	2.65	0.49
1:AB:112:G:C5'	1:AB:113:C:OP2	2.59	0.49
1:AB:117:G:C2	1:AB:118:G:C8	3.00	0.49
2:AA:16:G:C6	2:AA:525:U:N3	2.80	0.49
2:AA:60:G:C2'	2:AA:61:G:OP1	2.60	0.49
2:AA:215:G:HO2'	2:AA:216:A:P	2.36	0.49
2:AA:269:U:C5	2:AA:270(Z):U:P	3.03	0.49
2:AA:332:A:C2'	2:AA:334:C:OP2	2.60	0.49
2:AA:349:G:H2'	2:AA:349:G:N3	2.27	0.49
2:AA:364:C:C4	2:AA:365:C:N4	2.80	0.49
2:AA:414:C:H5'	2:AA:1863:G:N2	2.27	0.49
2:AA:467:G:OP1	31:A7:30:ILE:HG22	2.13	0.49
2:AA:489:G:N1	2:AA:491:G:C4	2.80	0.49
2:AA:515:A:O4'	2:AA:581:C:O4'	2.31	0.49
2:AA:529:A:C2'	2:AA:530:G:OP2	2.60	0.49
2:AA:558:G:C2'	2:AA:559:G:C5'	2.90	0.49
2:AA:650:C:H5'	32:A8:17:THR:HG21	1.94	0.49
2:AA:709:U:C2'	2:AA:710:G:H8	2.21	0.49
2:AA:717:G:C6	2:AA:718:A:C4	3.01	0.49
2:AA:724:U:C2'	2:AA:725:G:O5'	2.59	0.49
2:AA:822:U:H2'	2:AA:823:G:C8	2.39	0.49
2:AA:836:G:C5	2:AA:837:C:C4	3.00	0.49
2:AA:860:U:H1'	2:AA:2267:A:H5'	1.95	0.49
2:AA:917:A:H2'	2:AA:918:A:H5''	1.94	0.49
2:AA:931:G:C2	2:AA:932:G:N3	2.81	0.49
2:AA:1012:U:O2	12:AM:21:ARG:NH1	2.46	0.49
2:AA:1061:U:H2'	11:AL:12:GLN:HE22	1.76	0.49
2:AA:1080:C:O2'	11:AL:127:ILE:HG13	2.13	0.49
2:AA:1080:C:O3'	11:AL:126:LYS:HB3	2.11	0.49
2:AA:1166:C:O2'	2:AA:1167:U:H5'	2.12	0.49
2:AA:1169:G:C6	2:AA:1170:G:C6	3.00	0.49
2:AA:1208:C:O5'	2:AA:1208:C:H6	1.95	0.49
2:AA:1273:U:H5''	2:AA:1274:A:OP1	2.12	0.49
2:AA:1529:A:H5''	2:AA:1530:G:C8	2.46	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1605:C:C4'	2:AA:1610:A:N6	2.75	0.49
2:AA:1612:C:N4	2:AA:1619:G:C6	2.80	0.49
2:AA:1614:A:N3	2:AA:1614:A:C3'	2.72	0.49
2:AA:1687:G:H2'	2:AA:1701:A:H61	1.77	0.49
2:AA:1689:A:H4'	34:BA:1475:G:H5''	1.95	0.49
2:AA:1829:A:C2	2:AA:1830:C:O4'	2.65	0.49
2:AA:1906:G:N9	2:AA:1929:G:N7	2.61	0.49
2:AA:1941:C:H41	2:AA:1965:C:C1'	2.22	0.49
2:AA:2020:A:P	25:A1:31:GLN:HE22	2.35	0.49
2:AA:2020:A:OP2	25:A1:27:SER:OG	2.28	0.49
2:AA:2105:C:C2	2:AA:2106:G:N7	2.81	0.49
2:AA:2326:C:N4	2:AA:2389:G:O6	2.42	0.49
2:AA:2376:A:H2'	2:AA:2377:A:H8	1.73	0.49
2:AA:2436:G:O2'	2:AA:2437:U:C5'	2.60	0.49
2:AA:2459:A:N7	2:AA:2460:U:C4	2.79	0.49
2:AA:2526:G:O2'	2:AA:2527:C:C5'	2.58	0.49
2:AA:2685:G:H1	2:AA:2724:C:N4	2.09	0.49
2:AA:2725:A:O2'	2:AA:2726:U:C6	2.65	0.49
2:AA:2772:C:C4	2:AA:2773:C:N4	2.81	0.49
2:AA:2888:C:O5'	2:AA:2888:C:C6	2.64	0.49
3:AC:36:LYS:CG	3:AC:37:PHE:HD2	2.16	0.49
3:AC:91:ALA:O	3:AC:92:ASP:CG	2.56	0.49
3:AC:103:ILE:HD12	3:AC:127:LEU:CD1	2.42	0.49
3:AC:177:LYS:HG3	3:AC:180:PHE:CD1	2.47	0.49
4:AD:178:GLY:O	4:AD:179:GLU:HG2	2.13	0.49
6:AF:115:LEU:HA	6:AF:118:THR:CG2	2.43	0.49
6:AF:167:ASP:HB2	6:AF:232:LEU:HB2	1.95	0.49
8:AH:32:LEU:HD23	8:AH:32:LEU:C	2.38	0.49
8:AH:116:PRO:C	8:AH:120:LEU:HG	2.37	0.49
8:AH:159:LYS:O	8:AH:162:ARG:CZ	2.58	0.49
9:AJ:7:ILE:O	9:AJ:11:GLU:HG3	2.12	0.49
9:AJ:59:PHE:CE1	9:AJ:108:LYS:HG2	2.48	0.49
10:AK:47:LEU:HD12	10:AK:48:GLU:N	2.27	0.49
10:AK:110:LEU:CD1	10:AK:114:LYS:NZ	2.74	0.49
10:AK:116:GLU:CB	10:AK:130:PRO:O	2.59	0.49
10:AK:119:ASP:OD1	10:AK:120:ALA:O	2.31	0.49
11:AL:18:ALA:O	11:AL:19:THR:CG2	2.60	0.49
11:AL:38:PHE:CZ	11:AL:60:VAL:HG12	2.48	0.49
11:AL:93:LYS:NZ	21:AV:108:VAL:CG1	2.76	0.49
12:AM:31:LEU:O	12:AM:33:GLY:N	2.44	0.49
14:AO:101:ASP:C	14:AO:102:ASP:OD1	2.55	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AR:24:LYS:O	17:AR:25:ASP:HB2	2.10	0.49
18:AS:75:TYR:O	18:AS:104:THR:OG1	2.25	0.49
19:AT:23:LYS:O	19:AT:24:LEU:CG	2.47	0.49
19:AT:33:SER:O	19:AT:34:LYS:C	2.56	0.49
19:AT:43:GLU:H	19:AT:43:GLU:CD	2.19	0.49
19:AT:50:GLU:CB	19:AT:67:ARG:O	2.55	0.49
21:AV:138:VAL:HG21	21:AV:140:LYS:NZ	2.26	0.49
21:AV:139:THR:O	21:AV:140:LYS:CB	2.60	0.49
21:AV:159:THR:OG1	21:AV:160:LEU:N	2.43	0.49
25:A1:108:ALA:CA	25:A1:111:ASP:OD1	2.61	0.49
26:A2:4:ILE:HG23	26:A2:12:TYR:HD2	1.77	0.49
26:A2:80:TYR:O	26:A2:81:ARG:C	2.54	0.49
27:A3:19:LYS:HB3	27:A3:21:LEU:CG	2.30	0.49
29:A5:15:LYS:O	29:A5:18:MET:CG	2.55	0.49
29:A5:44:HIS:CG	29:A5:52:TYR:OH	2.65	0.49
32:A8:15:LYS:H	32:A8:22:VAL:HG13	1.76	0.49
33:A9:10:MET:CB	33:A9:32:HIS:CD2	2.89	0.49
34:BA:129:U:O5'	34:BA:129:U:H6	1.95	0.49
34:BA:134:A:H2'	34:BA:135:C:C6	2.48	0.49
34:BA:229:U:C2	34:BA:230:G:C8	3.00	0.49
34:BA:274:A:O2'	34:BA:275:G:O5'	2.30	0.49
34:BA:292:G:C2	34:BA:309:G:C2	3.01	0.49
34:BA:449:C:O2	51:BS:42:ARG:CD	2.59	0.49
34:BA:563:A:C2	34:BA:567:G:C5	2.99	0.49
34:BA:579:G:C4	34:BA:580:U:C5	3.00	0.49
34:BA:701:C:C2	34:BA:703:G:C2	3.00	0.49
34:BA:706:A:H2	34:BA:707:C:N1	2.09	0.49
34:BA:738:C:H5'	41:BI:72:VAL:CG2	2.43	0.49
34:BA:760:G:C3'	34:BA:761:G:H5'	2.43	0.49
34:BA:763:G:N3	34:BA:764:C:C6	2.80	0.49
34:BA:810:C:O2'	34:BA:811:C:O5'	2.30	0.49
34:BA:886:G:N2	34:BA:912:C:H1'	2.28	0.49
34:BA:898:G:C6	34:BA:902:G:C6	3.01	0.49
34:BA:934:C:H42	34:BA:939:G:N2	2.09	0.49
34:BA:968:A:OP1	34:BA:968:A:C8	2.64	0.49
34:BA:985:C:C2	34:BA:1221:G:N2	2.81	0.49
34:BA:991:U:OP2	34:BA:991:U:H6	1.95	0.49
34:BA:1011:G:H2'	34:BA:1012:U:O5'	2.12	0.49
34:BA:1202:G:N2	34:BA:1203:C:H1'	2.28	0.49
34:BA:1250:A:H4'	44:BL:67:GLY:CA	2.42	0.49
34:BA:1256:A:O2'	34:BA:1257:U:Cl'	2.61	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1298:C:C4'	34:BA:1299:A:C2	2.94	0.49
34:BA:1321:C:C4	34:BA:1322:C:C2	3.00	0.49
34:BA:1349:A:OP2	44:BL:118:LYS:HD3	2.12	0.49
35:BB:74:C:N3	35:BB:75:C:C1'	2.74	0.49
38:BF:33:LEU:HD13	49:BQ:53:LEU:HD22	1.94	0.49
38:BF:52:LEU:HA	38:BF:70:VAL:CG1	2.43	0.49
39:BG:43:HIS:HA	39:BG:46:LYS:HG3	1.94	0.49
39:BG:191:ARG:C	39:BG:191:ARG:CD	2.73	0.49
41:BI:12:PRO:HG3	41:BI:57:GLN:O	2.12	0.49
41:BI:27:GLN:OE1	41:BI:30:LEU:HD22	2.13	0.49
42:BJ:51:GLN:OE1	42:BJ:58:PRO:HD3	2.13	0.49
42:BJ:143:ARG:O	42:BJ:145:ALA:O	2.31	0.49
43:BK:67:PRO:O	43:BK:68:ARG:C	2.54	0.49
43:BK:69:ARG:NH2	43:BK:75:ARG:O	2.45	0.49
45:BM:16:LEU:CD1	45:BM:70:ARG:HG2	2.40	0.49
46:BN:16:SER:C	46:BN:35:PRO:HG3	2.37	0.49
46:BN:105:VAL:O	46:BN:106:LYS:C	2.55	0.49
49:BQ:17:LYS:CG	49:BQ:18:VAL:H	2.08	0.49
50:BR:81:LEU:HD21	50:BR:85:LEU:HG	1.94	0.49
52:BT:86:GLU:O	52:BT:89:LEU:HB2	2.12	0.49
54:BV:52:TYR:CZ	54:BV:54:GLY:C	2.91	0.49
55:BW:34:LYS:O	55:BW:35:THR:C	2.54	0.49
55:BW:67:ALA:O	55:BW:68:LYS:C	2.56	0.49
1:AB:30:C:O4'	1:AB:58:A:H2	1.96	0.49
1:AB:66:A:C2	1:AB:107:U:N3	2.80	0.49
2:AA:30:G:OP1	25:A1:8:ILE:CG1	2.61	0.49
2:AA:60:G:O6	2:AA:63:U:O4	2.31	0.49
2:AA:66:C:N4	2:AA:89:G:O6	2.45	0.49
2:AA:94:G:N2	2:AA:95:G:N3	2.61	0.49
2:AA:137:C:H2'	2:AA:137(A):G:C4	2.47	0.49
2:AA:176:G:N3	2:AA:176:G:C2'	2.72	0.49
2:AA:179:G:C6	2:AA:180:G:C5	3.01	0.49
2:AA:198:C:O2	2:AA:198:C:C2'	2.59	0.49
2:AA:262:A:H2'	2:AA:263:C:O5'	2.12	0.49
2:AA:358:U:O2	2:AA:358:U:C2'	2.61	0.49
2:AA:518:G:H2'	2:AA:519:U:C6	2.47	0.49
2:AA:558:G:O2'	2:AA:559:G:H5''	2.13	0.49
2:AA:609:A:N6	2:AA:619:G:H21	2.02	0.49
2:AA:612:G:N3	2:AA:615:G:N2	2.61	0.49
2:AA:629:G:O6	2:AA:630:G:C6	2.66	0.49
2:AA:652:C:OP1	2:AA:653:A:O2'	2.31	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:746:A:OP1	2:AA:2612:C:C4	2.65	0.49
2:AA:783:A:C5'	2:AA:2589:A:OP1	2.43	0.49
2:AA:814:C:O2'	2:AA:815:C:C5'	2.60	0.49
2:AA:818:G:C4	2:AA:1187:G:N2	2.80	0.49
2:AA:860:U:H2'	2:AA:861:A:C5'	2.37	0.49
2:AA:875:G:H2'	2:AA:876:C:H6	1.76	0.49
2:AA:981:A:OP2	2:AA:982:C:C5	2.65	0.49
2:AA:1028:A:C2	2:AA:2486:G:O2'	2.64	0.49
2:AA:1047:G:C2	2:AA:1110:G:C8	3.00	0.49
2:AA:1083:U:H2'	9:AI:37:VAL:CG1	2.43	0.49
2:AA:1274:A:N1	2:AA:1644:C:O2'	2.32	0.49
2:AA:1317:A:H2'	2:AA:1318:C:O4'	2.12	0.49
2:AA:1322:A:H8	2:AA:1322:A:O5'	1.95	0.49
2:AA:1391:U:O4	2:AA:1394:U:OP2	2.30	0.49
2:AA:1411:C:H2'	2:AA:1412:A:H8	1.78	0.49
2:AA:1439:A:C8	2:AA:1440:G:N9	2.80	0.49
2:AA:1612:C:C4	31:A7:3:ARG:NH1	2.80	0.49
2:AA:1629:U:H2'	2:AA:1630:G:C8	2.47	0.49
2:AA:1671:U:O2	2:AA:1673:U:H3'	2.12	0.49
2:AA:1680:U:O2	2:AA:1764:G:H5''	2.13	0.49
2:AA:1750:G:HO2'	2:AA:2860:A:H2	1.60	0.49
2:AA:1948:G:O2'	2:AA:1949:G:H5'	2.12	0.49
2:AA:1961:C:H2'	2:AA:1962:C:H5'	1.94	0.49
2:AA:1984:G:C5	2:AA:1985:G:C8	3.00	0.49
2:AA:2020:A:N6	2:AA:2022:U:H3	2.08	0.49
2:AA:2074:U:H3'	2:AA:2075:U:C5	2.46	0.49
2:AA:2284:C:O2'	2:AA:2325:G:N2	2.45	0.49
2:AA:2300:G:N2	2:AA:2301:C:C2	2.81	0.49
2:AA:2317:C:OP1	7:AG:149:ARG:O	2.31	0.49
2:AA:2468:G:O5'	2:AA:2468:G:C8	2.65	0.49
2:AA:2503:A:C4'	2:AA:2504:U:OP1	2.59	0.49
2:AA:2533:A:OP1	2:AA:2665:A:C1'	2.59	0.49
2:AA:2545:G:O2'	2:AA:2546:U:H5'	2.11	0.49
2:AA:2677:G:O2'	2:AA:2678:C:C5'	2.56	0.49
2:AA:2742:C:N3	2:AA:2743:C:C5	2.81	0.49
2:AA:2791:C:H2'	2:AA:2792:G:H8	1.77	0.49
2:AA:2862:G:O2'	2:AA:2863:C:O4'	2.22	0.49
3:AC:130:ILE:HG22	3:AC:131:LEU:CD2	2.43	0.49
4:AD:76:ARG:HG2	4:AD:114:GLU:N	2.27	0.49
4:AD:129:LEU:CD2	4:AD:133:ASN:ND2	2.75	0.49
5:AE:74:GLU:CB	5:AE:293:TYR:CE2	2.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:239:ALA:O	6:AF:242:GLU:CB	2.61	0.49
7:AG:90:LEU:CD1	48:BP:3:ARG:NH1	2.66	0.49
8:AH:24:THR:HB	8:AH:26:LYS:HZ2	1.78	0.49
8:AH:70:LEU:O	8:AH:71:LEU:C	2.55	0.49
9:AJ:24:LYS:O	9:AJ:27:ASP:N	2.46	0.49
10:AK:58:ALA:O	10:AK:59:ALA:C	2.54	0.49
10:AK:131:VAL:HG12	10:AK:132:LYS:O	2.12	0.49
11:AL:14:PRO:HB2	11:AL:17:LYS:CD	2.19	0.49
11:AL:79:LEU:HD22	11:AL:137:ILE:CD1	2.34	0.49
11:AL:79:LEU:CD2	11:AL:79:LEU:C	2.85	0.49
11:AL:105:ILE:CG2	11:AL:128:ILE:HG21	2.25	0.49
11:AL:135:MET:HB3	11:AL:137:ILE:HG13	1.95	0.49
12:AM:94:GLY:O	12:AM:97:ALA:HB3	2.13	0.49
13:AN:1:MET:O	13:AN:2:ILE:HD12	2.13	0.49
13:AN:1:MET:HB2	13:AN:2:ILE:HD12	1.95	0.49
13:AN:112:MET:HA	13:AN:115:ILE:HB	1.93	0.49
14:AO:119:THR:HG22	14:AO:138:GLY:HA3	1.92	0.49
15:AP:50:VAL:HG21	15:AP:147:VAL:HG22	1.95	0.49
15:AP:125:TRP:O	15:AP:126:VAL:CG2	2.54	0.49
17:AR:54:THR:C	17:AR:56:ARG:H	2.19	0.49
18:AS:27:LYS:H	18:AS:71:VAL:CG2	2.22	0.49
18:AS:37:ARG:HH22	29:A5:48:ASN:HD21	1.52	0.49
19:AT:9:HIS:CD2	19:AT:27:ALA:HB2	2.47	0.49
19:AT:18:MET:HB3	19:AT:24:LEU:HA	1.94	0.49
19:AT:28:VAL:HG11	19:AT:64:ALA:CB	2.39	0.49
20:AU:29:ALA:O	20:AU:30:ASP:O	2.30	0.49
21:AV:106:GLY:N	21:AV:141:MET:O	2.45	0.49
21:AV:107:GLU:OE2	21:AV:141:MET:HG3	2.13	0.49
22:AW:12:THR:C	22:AW:16:ARG:CZ	2.85	0.49
24:A0:83:ILE:HD13	24:A0:83:ILE:N	2.26	0.49
25:A1:88:ILE:HG22	26:A2:55:THR:OG1	2.12	0.49
26:A2:69:ILE:CG2	26:A2:88:GLN:HB3	2.42	0.49
27:A3:59:LEU:HD23	27:A3:81:ILE:HG23	1.94	0.49
29:A5:35:GLN:HG2	29:A5:35:GLN:O	2.12	0.49
30:A6:9:ILE:HG22	30:A6:9:ILE:O	2.13	0.49
30:A6:48:VAL:CG1	30:A6:49:VAL:N	2.75	0.49
34:BA:255:G:C4'	52:BT:16:GLN:O	2.61	0.49
34:BA:449:C:O3'	51:BS:43:LYS:NZ	2.46	0.49
34:BA:453:A:N6	34:BA:480:U:C2	2.80	0.49
34:BA:547:A:H4'	34:BA:548:G:C5'	2.42	0.49
34:BA:553:A:H8	34:BA:553:A:OP2	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:588:G:N9	34:BA:753:A:C2	2.80	0.49
34:BA:669:U:O4'	50:BR:46:HIS:HE1	1.95	0.49
34:BA:689:C:O2'	34:BA:705:U:H1'	2.13	0.49
34:BA:809:G:H2'	34:BA:810:C:C5'	2.42	0.49
34:BA:853:G:N2	34:BA:854:G:H1'	2.28	0.49
34:BA:874:G:C2	34:BA:875:C:N1	2.80	0.49
34:BA:935:A:H2'	34:BA:936:C:H6	1.77	0.49
34:BA:1042:G:H2'	34:BA:1042:G:N3	2.27	0.49
34:BA:1092:A:C2	34:BA:1183:A:C2	3.01	0.49
34:BA:1128:C:N4	34:BA:1143:G:H1	2.09	0.49
34:BA:1143:G:O5'	34:BA:1143:G:C8	2.64	0.49
34:BA:1178:G:OP2	44:BL:93:ARG:NH2	2.46	0.49
34:BA:1190:G:C2'	34:BA:1191:A:OP2	2.61	0.49
34:BA:1327:C:OP1	56:BX:20:LYS:HB3	2.12	0.49
34:BA:1437:C:O2	34:BA:1438:G:C8	2.65	0.49
34:BA:1515:C:C2'	34:BA:1516:G:O5'	2.61	0.49
34:BA:1517:G:C2	34:BA:1518:A:C4	3.00	0.49
34:BA:1542:U:O2	34:BA:1542:U:H2'	2.13	0.49
35:BB:6:U:O4	35:BB:7:U:C4	2.66	0.49
35:BB:41:U:C6	35:BB:41:U:O5'	2.66	0.49
36:B1:57:A:OP2	36:B1:57:A:O4'	2.29	0.49
37:BE:74:LYS:CE	37:BE:76:GLN:HB2	2.37	0.49
37:BE:178:ARG:NE	37:BE:196:LEU:HD13	2.28	0.49
37:BE:217:ARG:NH1	37:BE:217:ARG:HG3	2.27	0.49
38:BF:34:LEU:C	38:BF:34:LEU:CD2	2.85	0.49
38:BF:59:ARG:HG3	38:BF:64:VAL:H	1.78	0.49
38:BF:70:VAL:C	38:BF:106:VAL:HG23	2.37	0.49
38:BF:116:VAL:HG21	38:BF:141:VAL:HG21	1.94	0.49
38:BF:162:GLN:CD	38:BF:163:ALA:H	2.20	0.49
38:BF:191:THR:HB	38:BF:193:TYR:CE2	2.47	0.49
39:BG:121:VAL:HA	39:BG:126:ILE:CD1	2.42	0.49
40:BH:35:GLY:N	40:BH:112:LEU:HD12	2.27	0.49
41:BI:82:ARG:O	41:BI:84:ASN:N	2.45	0.49
41:BI:98:LEU:HD22	41:BI:101:ALA:CB	2.41	0.49
42:BJ:26:PHE:CE1	42:BJ:105:VAL:HG22	2.44	0.49
42:BJ:126:ASP:HA	42:BJ:129:GLU:CG	2.42	0.49
43:BK:46:LYS:CG	43:BK:64:LYS:HG3	2.40	0.49
44:BL:72:GLY:CA	44:BL:75:ASP:OD1	2.59	0.49
45:BM:24:VAL:C	45:BM:34:VAL:HG21	2.37	0.49
45:BM:39:PRO:HB3	45:BM:70:ARG:NH1	2.27	0.49
45:BM:75:ILE:C	45:BM:76:ASN:ND2	2.70	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:10:PRO:HB2	48:BP:18:ALA:HB1	1.94	0.49
48:BP:44:ARG:O	48:BP:47:ASP:CG	2.56	0.49
48:BP:90:LEU:O	48:BP:91:ARG:C	2.55	0.49
49:BQ:29:ARG:CB	49:BQ:40:CYS:SG	3.01	0.49
49:BQ:41:ARG:HA	49:BQ:44:LEU:CD2	2.41	0.49
50:BR:10:LYS:HZ2	50:BR:14:GLU:CD	2.20	0.49
52:BT:8:GLY:O	52:BT:56:VAL:HG13	2.13	0.49
52:BT:84:LEU:C	52:BT:86:GLU:N	2.68	0.49
53:BU:58:LEU:HD22	53:BU:62:GLU:HG2	1.95	0.49
53:BU:72:ARG:NH1	53:BU:72:ARG:CG	2.65	0.49
55:BW:76:ALA:O	55:BW:78:ALA:N	2.45	0.49
1:AB:12:C:H42	27:A3:50:GLY:H	1.59	0.49
1:AB:73:A:N6	1:AB:104:A:N9	2.61	0.49
2:AA:71:A:C2	2:AA:73:A:N7	2.81	0.49
2:AA:118:A:N3	2:AA:178:G:H1'	2.28	0.49
2:AA:252:G:C2	2:AA:253:C:C5	3.00	0.49
2:AA:262:A:C2'	2:AA:263:C:H5'	2.43	0.49
2:AA:397:G:OP1	28:A4:40:HIS:C	2.56	0.49
2:AA:493:G:C4	2:AA:494:G:C8	3.01	0.49
2:AA:562:U:C4	2:AA:2036:C:O4'	2.66	0.49
2:AA:678:C:C2	2:AA:799:G:N2	2.75	0.49
2:AA:729:G:C2	2:AA:1775:U:N1	2.80	0.49
2:AA:1038:C:O2	2:AA:1038:C:H2'	2.12	0.49
2:AA:1085:A:C5'	9:AI:29:PHE:CB	2.90	0.49
2:AA:1208:C:N3	2:AA:1240:U:C4	2.81	0.49
2:AA:1274:A:H8	2:AA:1646:C:N4	2.11	0.49
2:AA:1385:G:H1	2:AA:1402:C:H42	1.60	0.49
2:AA:1471:A:O2'	2:AA:1472:A:H5'	2.11	0.49
2:AA:1612:C:H5''	2:AA:1613:G:OP2	2.12	0.49
2:AA:1704:G:C6	2:AA:1705:G:C8	3.01	0.49
2:AA:1837:C:HO2'	2:AA:1928:A:H1'	1.74	0.49
2:AA:1846:G:H2'	2:AA:1847:A:H5'	1.93	0.49
2:AA:1891:G:C3'	2:AA:1892:C:H6	2.25	0.49
2:AA:1920:C:H5''	34:BA:1517:G:C8	2.46	0.49
2:AA:1935:G:H3'	2:AA:1962:C:H42	1.77	0.49
2:AA:2020:A:C6	2:AA:2022:U:N3	2.81	0.49
2:AA:2043:C:C2	2:AA:2044:C:H5	2.31	0.49
2:AA:2045:C:N4	2:AA:2623:G:H1	2.09	0.49
2:AA:2056:G:C8	2:AA:2577:A:C5	3.00	0.49
2:AA:2102:U:C2	2:AA:2103:C:C4	3.01	0.49
2:AA:2122:U:O2	2:AA:2122:U:C2'	2.59	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2136:C:H2'	2:AA:2137:C:C4	2.47	0.49
2:AA:2217:G:C2	2:AA:2218:G:C5	3.00	0.49
2:AA:2266:A:N3	2:AA:2272:U:C4	2.81	0.49
2:AA:2275:C:O2'	2:AA:2276:G:P	2.70	0.49
2:AA:2280:G:C4	2:AA:2281:C:C5	3.00	0.49
2:AA:2285:C:C2	2:AA:2384:G:N2	2.81	0.49
2:AA:2326:C:N3	2:AA:2389:G:O6	2.45	0.49
2:AA:2414:G:O2'	2:AA:2415:G:H5'	2.13	0.49
2:AA:2520:C:N4	2:AA:2567:G:C5	2.80	0.49
2:AA:2567:G:C4	2:AA:2568:C:H5	2.30	0.49
2:AA:2618:G:C2	2:AA:2619:C:C5	3.01	0.49
2:AA:2654:A:O2'	2:AA:2655:G:O2'	2.22	0.49
2:AA:2686:G:O2'	2:AA:2687:U:C4'	2.61	0.49
2:AA:2746:U:O4	2:AA:2756:U:H5	1.94	0.49
2:AA:2768:C:H2'	2:AA:2769:C:C5'	2.42	0.49
2:AA:2791:C:C5	2:AA:2807:G:C6	3.00	0.49
2:AA:2842:G:C2	2:AA:2876:G:C2	3.01	0.49
2:AA:2842:G:N1	2:AA:2875:C:N4	2.36	0.49
2:AA:2852:G:N1	2:AA:2865:U:N3	2.22	0.49
4:AD:110:LYS:O	4:AD:111:VAL:C	2.56	0.49
5:AE:41:PHE:O	5:AE:311:PHE:CZ	2.66	0.49
5:AE:80:ALA:CB	5:AE:181:VAL:HG22	2.42	0.49
5:AE:107:GLU:CD	5:AE:110:ARG:NH1	2.71	0.49
5:AE:107:GLU:CG	5:AE:110:ARG:CZ	2.90	0.49
5:AE:175:ASP:C	5:AE:177:ALA:N	2.65	0.49
6:AF:51:TYR:O	6:AF:55:ARG:CG	2.59	0.49
7:AG:28:GLY:O	7:AG:69:ILE:HD11	2.12	0.49
7:AG:53:LYS:HB3	7:AG:69:ILE:HB	1.94	0.49
8:AH:123:GLU:O	8:AH:125:PRO:HD2	2.11	0.49
9:AI:45:ALA:C	9:AJ:19:ALA:HB1	2.38	0.49
10:AK:10:LYS:HG2	10:AK:11:GLY:H	1.75	0.49
11:AL:112:LYS:O	11:AL:114:PRO:N	2.45	0.49
12:AM:105:LEU:CD2	12:AM:105:LEU:H	2.24	0.49
13:AN:7:ARG:HG2	13:AN:44:LYS:HZ2	1.77	0.49
13:AN:17:ARG:CZ	13:AN:46:ALA:O	2.61	0.49
13:AN:40:VAL:O	13:AN:40:VAL:HG12	2.12	0.49
13:AN:41:ALA:C	13:AN:42:THR:HG23	2.38	0.49
13:AN:98:ILE:CG2	13:AN:118:ALA:HA	2.40	0.49
14:AO:116:HIS:HD2	14:AO:118:LEU:HD21	1.68	0.49
15:AP:35:ASN:HD21	21:AV:113:VAL:HB	1.64	0.49
15:AP:56:ILE:HG13	15:AP:115:SER:HB3	1.92	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:98:GLY:C	35:BC:1:G:O2'	2.54	0.49
16:AQ:67:ALA:O	16:AQ:69:TYR:CE1	2.65	0.49
18:AS:21:VAL:O	18:AS:22:ASP:C	2.55	0.49
18:AS:25:ARG:O	18:AS:26:GLY:C	2.55	0.49
20:AU:5:ASP:CG	20:AU:9:LYS:HZ3	2.21	0.49
20:AU:35:TYR:CD1	20:AU:35:TYR:N	2.78	0.49
20:AU:55:PHE:CE1	20:AU:89:ARG:CZ	2.95	0.49
20:AU:80:GLU:HG2	20:AU:86:GLU:CG	2.40	0.49
21:AV:173:PRO:CB	21:AV:177:THR:HG23	2.38	0.49
23:AX:23:LEU:O	23:AX:28:LEU:HD12	2.13	0.49
23:AX:31:LEU:HD22	23:AX:32:GLN:CA	2.37	0.49
24:A0:79:LEU:HD23	24:A0:80:PHE:CB	2.41	0.49
24:A0:103:ARG:C	24:A0:105:ARG:HH21	2.18	0.49
25:A1:9:VAL:C	25:A1:13:ARG:NH2	2.67	0.49
25:A1:43:ALA:CB	26:A2:75:LYS:HB3	2.42	0.49
28:A4:12:CYS:O	28:A4:14:ILE:HG12	2.12	0.49
30:A6:8:ILE:HG22	30:A6:28:ARG:HB2	1.94	0.49
31:A7:8:ASN:ND2	31:A7:8:ASN:N	2.60	0.49
31:A7:21:ARG:NE	31:A7:43:THR:OG1	2.46	0.49
34:BA:52:G:N2	34:BA:53:A:H1'	2.28	0.49
34:BA:79:G:O6	34:BA:90:U:O2	2.31	0.49
34:BA:105:G:H2'	34:BA:106:C:C6	2.47	0.49
34:BA:264:U:C2'	52:BT:64:PRO:HB2	2.42	0.49
34:BA:287:U:O2	34:BA:288:A:C8	2.66	0.49
34:BA:376:G:OP1	51:BS:6:LEU:HD13	2.11	0.49
34:BA:413:G:H22	34:BA:428:G:H1'	1.77	0.49
34:BA:582:U:C6	52:BT:105:ALA:HB1	2.48	0.49
34:BA:608:A:H2'	34:BA:608:A:N3	2.27	0.49
34:BA:795:C:C4'	34:BA:1506:U:C2	2.96	0.49
34:BA:803:G:H2'	34:BA:804:U:O5'	2.12	0.49
34:BA:803:G:C2'	34:BA:804:U:O5'	2.60	0.49
34:BA:948:C:O2'	34:BA:949:A:H5'	2.12	0.49
34:BA:1054:C:H3'	34:BA:1054:C:C6	2.47	0.49
34:BA:1103:C:O2'	37:BE:111:ARG:CD	2.61	0.49
34:BA:1108:G:C2'	34:BA:1109:C:H5'	2.43	0.49
34:BA:1158:C:O2	34:BA:1158:C:C2'	2.61	0.49
34:BA:1199:U:C4'	45:BM:54:PHE:CE2	2.95	0.49
34:BA:1236:A:C2	34:BA:1237:C:C4	3.01	0.49
34:BA:1246:C:N3	34:BA:1291:G:C6	2.81	0.49
34:BA:1300:G:O2'	34:BA:1301:U:O5'	2.29	0.49
34:BA:1343:G:C2	34:BA:1344:C:N3	2.81	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1373:G:O2'	42:BJ:34:GLY:HA2	2.12	0.49
34:BA:1376:U:O2	34:BA:1377:A:C5	2.66	0.49
34:BA:1401:G:C8	34:BA:1402:C:C5	3.01	0.49
34:BA:1509:C:O2	34:BA:1509:C:C2'	2.60	0.49
35:BB:53:G:C8	35:BB:53:G:H3'	2.47	0.49
35:BC:3:G:H2'	35:BC:4:G:O5'	2.12	0.49
37:BE:207:ALA:O	37:BE:209:ARG:N	2.46	0.49
39:BG:128:VAL:HG13	39:BG:129:ASN:N	2.25	0.49
39:BG:195:ALA:O	39:BG:196:LEU:O	2.29	0.49
40:BH:53:LEU:CD2	40:BH:53:LEU:H	2.25	0.49
40:BH:68:GLU:OE2	40:BH:68:GLU:HA	2.11	0.49
40:BH:79:GLU:O	43:BK:104:ARG:CZ	2.60	0.49
42:BJ:105:VAL:C	42:BJ:109:ASN:ND2	2.71	0.49
43:BK:4:ASP:O	43:BK:5:PRO:C	2.56	0.49
44:BL:88:TYR:CD2	44:BL:89:ASN:ND2	2.81	0.49
45:BM:15:THR:HG23	45:BM:94:VAL:HG22	1.94	0.49
46:BN:65:ALA:CB	46:BN:98:LEU:HD21	2.42	0.49
47:BO:126:LYS:O	47:BO:127:GLU:C	2.55	0.49
48:BP:13:LYS:HB3	48:BP:17:VAL:HB	1.93	0.49
50:BR:34:LEU:HD23	50:BR:35:ARG:CA	2.42	0.49
50:BR:39:LEU:CD2	50:BR:39:LEU:C	2.81	0.49
51:BS:9:PHE:N	51:BS:9:PHE:CD2	2.79	0.49
51:BS:60:LEU:O	51:BS:61:SER:C	2.55	0.49
1:AB:1:U:C6	1:AB:1:U:C3'	2.96	0.49
1:AB:18:G:N3	1:AB:19:G:C8	2.80	0.49
1:AB:28:C:H2'	1:AB:29:A:C8	2.47	0.49
1:AB:33:G:C6	1:AB:34:U:O4	2.66	0.49
1:AB:45:A:C4	1:AB:46:A:N7	2.81	0.49
2:AA:31:C:O2'	2:AA:32:C:H5'	2.12	0.49
2:AA:108:U:O2'	2:AA:109:G:P	2.71	0.49
2:AA:134:C:O2	2:AA:146:G:C2	2.65	0.49
2:AA:138:G:C3'	2:AA:139:G:H4'	2.42	0.49
2:AA:152:G:N2	2:AA:176:G:C2	2.80	0.49
2:AA:215:G:H1'	2:AA:216:A:C4'	2.43	0.49
2:AA:270(D):C:O2	2:AA:270(E):G:C8	2.66	0.49
2:AA:273(D):C:N3	2:AA:363(B):G:C2	2.79	0.49
2:AA:296:C:H2'	2:AA:297:C:C6	2.47	0.49
2:AA:429:A:C6	2:AA:430:G:O6	2.66	0.49
2:AA:448:U:O2'	6:AF:84:VAL:HG12	2.13	0.49
2:AA:594:U:C2	2:AA:595:C:C5	3.00	0.49
2:AA:701:G:N2	2:AA:731:C:C2	2.71	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:715:G:H3'	2:AA:715:G:C8	2.47	0.49
2:AA:784:A:O2'	2:AA:785:G:C5'	2.45	0.49
2:AA:826:U:H5''	2:AA:2428:G:C3'	2.42	0.49
2:AA:917:A:C8	2:AA:2268:A:N6	2.73	0.49
2:AA:958:U:H2'	2:AA:959:A:OP2	2.13	0.49
2:AA:976:C:O2	2:AA:977:G:C8	2.66	0.49
2:AA:1057:A:N1	2:AA:1058:G:C5	2.80	0.49
2:AA:1429:G:N3	2:AA:1568:G:C2	2.81	0.49
2:AA:1477:A:H5''	2:AA:1478:G:OP2	2.13	0.49
2:AA:1582:C:H2'	2:AA:1583:A:C1'	2.42	0.49
2:AA:1746:G:C3'	2:AA:1747:G:H8	2.24	0.49
2:AA:1905:C:H3'	2:AA:1930:G:O6	2.13	0.49
2:AA:1906:G:C6	2:AA:1907:G:C6	3.00	0.49
2:AA:1916:A:O2'	2:AA:1917:U:N3	2.46	0.49
2:AA:1920:C:P	34:BA:1517:G:C1'	3.01	0.49
2:AA:1986:A:C2	2:AA:1987:G:C4	3.01	0.49
2:AA:2023:G:H5''	2:AA:2617:C:O2'	2.11	0.49
2:AA:2065:C:N4	2:AA:2445:G:H1	2.11	0.49
2:AA:2133:G:N3	2:AA:2133:G:H2'	2.27	0.49
2:AA:2187:G:H2'	2:AA:2188:C:O4'	2.12	0.49
2:AA:2230:G:O2'	2:AA:2231:C:H5'	2.12	0.49
2:AA:2364:C:N4	2:AA:2365:G:N1	2.61	0.49
2:AA:2397:G:N2	2:AA:2420:C:C1'	2.63	0.49
2:AA:2423:U:C2'	2:AA:2424:C:OP2	2.61	0.49
2:AA:2459:A:N7	2:AA:2460:U:C5	2.80	0.49
2:AA:2466:C:C4	2:AA:2467:C:C4	3.00	0.49
2:AA:2575:C:O2	2:AA:2575:C:H2'	2.11	0.49
2:AA:2584:U:H2'	2:AA:2585:U:C5	2.44	0.49
2:AA:2605:U:C2'	2:AA:2606:C:H5'	2.42	0.49
2:AA:2766:G:N3	2:AA:2766:G:C2'	2.75	0.49
2:AA:2820:A:O2'	2:AA:2821:A:P	2.70	0.49
2:AA:2834:G:C8	2:AA:2834:G:C3'	2.96	0.49
2:AA:2856:C:H2'	2:AA:2857:G:H8	1.78	0.49
2:AA:2881:C:OP1	24:A0:90:ARG:NH1	2.46	0.49
2:AA:2888:C:O2'	2:AA:2889:C:H5'	2.13	0.49
3:AC:41:VAL:HA	3:AC:216:THR:HG22	1.94	0.49
3:AC:91:ALA:HB2	3:AC:153:ILE:CD1	2.43	0.49
4:AD:120:ASP:OD1	4:AD:121:ALA:O	2.31	0.49
4:AD:130:PRO:CA	4:AD:188:ARG:HG2	2.43	0.49
4:AD:154:VAL:O	4:AD:154:VAL:CG1	2.60	0.49
5:AE:41:PHE:CB	5:AE:311:PHE:CE1	2.92	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:263:GLU:O	5:AE:266:LYS:HE3	2.13	0.49
8:AH:87:GLU:N	8:AH:148:ARG:HH21	2.09	0.49
8:AH:89:VAL:O	8:AH:159:LYS:HA	2.13	0.49
8:AH:148:ARG:O	8:AH:161:ILE:HG13	2.13	0.49
9:AI:4:ASP:OD1	11:AL:116:LEU:O	2.30	0.49
10:AK:81:ALA:HB1	10:AK:89:LEU:HD22	1.89	0.49
10:AK:114:LYS:CD	10:AK:133:LEU:HA	2.42	0.49
10:AK:124:LEU:HG	10:AK:125:GLY:H	1.77	0.49
12:AM:15:ARG:HA	12:AM:44:ALA:N	2.28	0.49
13:AN:68:GLY:HA3	13:AN:78:ARG:CD	2.32	0.49
13:AN:70:ARG:HG2	13:AN:76:TYR:CE2	2.46	0.49
14:AO:104:ASP:O	14:AO:105:TYR:CB	2.60	0.49
15:AP:28:ILE:HG23	15:AP:62:GLU:HG2	1.94	0.49
15:AP:35:ASN:HD21	21:AV:114:ASP:H	1.57	0.49
15:AP:42:TYR:HB2	21:AV:99:HIS:CE1	2.47	0.49
15:AP:132:VAL:O	15:AP:133:GLU:C	2.54	0.49
16:AQ:46:GLN:CG	16:AQ:57:THR:HG21	2.42	0.49
16:AQ:116:PHE:O	16:AQ:120:GLU:OE1	2.31	0.49
19:AT:32:ALA:HB3	19:AT:37:VAL:CG2	2.42	0.49
19:AT:76:GLU:O	19:AT:78:ALA:N	2.46	0.49
20:AU:53:GLY:O	20:AU:54:ASP:C	2.54	0.49
21:AV:26:LYS:O	21:AV:27:GLU:CB	2.61	0.49
21:AV:52:PHE:H	21:AV:65:LEU:HD12	1.70	0.49
26:A2:74:TYR:OH	26:A2:89:ASN:ND2	2.45	0.49
27:A3:39:ARG:N	27:A3:69:PHE:CZ	2.76	0.49
29:A5:9:LYS:C	29:A5:10:LYS:O	2.50	0.49
31:A7:28:ARG:CA	31:A7:31:LEU:CD1	2.87	0.49
34:BA:28:G:C2	34:BA:556:C:N3	2.80	0.49
34:BA:132:C:C2	34:BA:231:G:C2	3.01	0.49
34:BA:147:G:N2	34:BA:176:C:C2	2.81	0.49
34:BA:175:C:H2'	34:BA:176:C:C6	2.40	0.49
34:BA:312:C:O2	34:BA:312:C:C2'	2.54	0.49
34:BA:314:C:H2'	34:BA:315:A:N9	2.28	0.49
34:BA:315:A:N1	34:BA:330:C:C6	2.81	0.49
34:BA:452:A:C4	34:BA:453:A:N7	2.81	0.49
34:BA:529:G:C8	34:BA:529:G:H3'	2.48	0.49
34:BA:530:G:C5	35:BB:35:A:C1'	2.88	0.49
34:BA:603:U:O2'	34:BA:604:G:H5'	2.13	0.49
34:BA:632:A:H2'	34:BA:633:G:C8	2.47	0.49
34:BA:698:G:O2'	34:BA:699:C:O4'	2.25	0.49
34:BA:802:A:N6	34:BA:803:G:N3	2.61	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:833:U:C2	34:BA:834:C:C5	3.00	0.49
34:BA:894:G:C4	34:BA:895:G:N7	2.81	0.49
34:BA:909:A:O2'	34:BA:910:C:H5'	2.12	0.49
34:BA:930:C:H42	34:BA:1387:G:H1	1.59	0.49
34:BA:948:C:C2'	34:BA:949:A:O5'	2.61	0.49
34:BA:970:C:H4'	34:BA:972:C:C6	2.47	0.49
34:BA:983:A:C2	34:BA:984:C:C6	2.93	0.49
34:BA:1027:C:N4	34:BA:1028:C:N4	2.61	0.49
34:BA:1054:C:P	34:BA:1196:U:O3'	2.71	0.49
34:BA:1072:G:N1	34:BA:1104:G:C2	2.81	0.49
34:BA:1150:U:C2	34:BA:1151:A:N7	2.81	0.49
34:BA:1171:G:O2'	34:BA:1172:C:O4'	2.29	0.49
34:BA:1178:G:H8	34:BA:1178:G:O5'	1.96	0.49
34:BA:1368:G:N2	34:BA:1369:C:H1'	2.27	0.49
34:BA:1399:C:C4	34:BA:1502:A:N7	2.80	0.49
34:BA:1537:U:H2'	34:BA:1538:C:H1'	1.95	0.49
35:BB:11:C:O2	35:BB:12:U:C2	2.66	0.49
35:BB:29:A:C6	35:BB:30:G:N7	2.81	0.49
37:BE:28:PHE:CD1	37:BE:31:TYR:HB3	2.47	0.49
37:BE:44:LEU:HD12	37:BE:45:GLN:OE1	2.13	0.49
37:BE:126:GLU:O	37:BE:127:ILE:C	2.55	0.49
37:BE:132:LYS:O	37:BE:135:GLN:HB2	2.12	0.49
37:BE:193:ASP:HB2	37:BE:196:LEU:HD23	1.94	0.49
39:BG:121:VAL:HA	39:BG:126:ILE:HG13	1.95	0.49
40:BH:15:ARG:HD2	40:BH:27:ARG:O	2.12	0.49
40:BH:92:LYS:HG3	40:BH:93:PRO:HD2	1.95	0.49
40:BH:121:LYS:HG3	40:BH:122:GLU:N	2.27	0.49
40:BH:137:GLU:O	40:BH:138:ALA:C	2.55	0.49
43:BK:120:THR:H	43:BK:123:GLU:CG	2.26	0.49
44:BL:19:LEU:HD23	44:BL:61:ALA:CA	2.40	0.49
44:BL:102:LEU:HD23	44:BL:102:LEU:N	2.26	0.49
44:BL:121:ARG:HH11	44:BL:121:ARG:HG2	1.77	0.49
45:BM:21:GLN:CG	45:BM:25:GLU:OE2	2.60	0.49
46:BN:68:ALA:O	46:BN:69:ALA:C	2.56	0.49
46:BN:75:TYR:O	46:BN:76:GLY:C	2.56	0.49
47:BO:34:ARG:HE	47:BO:61:THR:HG21	1.78	0.49
48:BP:59:TYR:CD2	48:BP:60:VAL:HG23	2.47	0.49
49:BQ:27:CYS:O	49:BQ:40:CYS:SG	2.71	0.49
50:BR:21:ASP:O	50:BR:21:ASP:CG	2.56	0.49
50:BR:74:ASP:CG	50:BR:74:ASP:O	2.52	0.49
51:BS:78:GLY:O	51:BS:79:VAL:CG2	2.61	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:2:PRO:C	52:BT:4:LYS:N	2.70	0.49
52:BT:5:VAL:CB	52:BT:59:ILE:O	2.61	0.49
1:AB:74:U:C2'	1:AB:75:G:C8	2.87	0.49
1:AB:113:C:O2'	16:AQ:56:ASP:CG	2.54	0.49
2:AA:17:G:P	29:A5:13:LYS:NZ	2.86	0.49
2:AA:137:C:C4	2:AA:142:G:N1	2.80	0.49
2:AA:154:G:O6	2:AA:172:C:N3	2.46	0.49
2:AA:270(C):C:C6	2:AA:270(D):C:H5	2.30	0.49
2:AA:271(C):U:O4	2:AA:421:U:H2'	2.13	0.49
2:AA:282:A:H8	2:AA:282:A:OP2	1.96	0.49
2:AA:449:A:N3	2:AA:450:G:C8	2.80	0.49
2:AA:468:G:C2'	2:AA:469:G:C5'	2.91	0.49
2:AA:811:U:C6	2:AA:811:U:C3'	2.96	0.49
2:AA:846:C:H42	2:AA:932:G:H1	1.61	0.49
2:AA:914:C:H2'	2:AA:915:C:C5'	2.38	0.49
2:AA:916:G:O5'	2:AA:916:G:C8	2.57	0.49
2:AA:939:G:O2'	2:AA:940:G:C5'	2.58	0.49
2:AA:955:C:C2'	2:AA:956:G:C5'	2.86	0.49
2:AA:955:C:HO2'	2:AA:956:G:H5'	1.72	0.49
2:AA:974:G:H3'	26:A2:82:ARG:NH2	2.27	0.49
2:AA:985:C:H2'	2:AA:985:C:O2	2.12	0.49
2:AA:1021:A:N1	2:AA:1023:U:C2	2.81	0.49
2:AA:1028:A:H2'	2:AA:1029:A:C8	2.45	0.49
2:AA:1212:G:C2	2:AA:1236:G:O6	2.66	0.49
2:AA:1237:A:O2'	2:AA:1238:G:P	2.70	0.49
2:AA:1416:G:H22	2:AA:1582:C:H42	1.61	0.49
2:AA:1436:G:C6	2:AA:1437:C:C4	3.01	0.49
2:AA:1458:C:O2'	2:AA:1459:G:N1	2.45	0.49
2:AA:1526:G:C5'	2:AA:1527:G:OP1	2.60	0.49
2:AA:1529:A:N7	2:AA:1542:G:C6	2.81	0.49
2:AA:1614:A:N7	18:AS:88:ARG:CD	2.59	0.49
2:AA:1668:A:C6	2:AA:1674:G:N3	2.81	0.49
2:AA:1693:U:C5'	2:AA:1694:C:OP2	2.60	0.49
2:AA:1695:G:C2	2:AA:1696:G:O4'	2.66	0.49
2:AA:1758:G:N1	2:AA:2696:U:H5'	2.28	0.49
2:AA:1796:U:C2'	2:AA:1797:C:C6	2.96	0.49
2:AA:1803:A:C8	2:AA:1804:C:H5	2.29	0.49
2:AA:1830:C:C2	2:AA:1831:G:C8	3.01	0.49
2:AA:1861:G:C5'	3:AC:205:LYS:CE	2.89	0.49
2:AA:1894:C:H2'	2:AA:1895:C:C6	2.47	0.49
2:AA:1928:A:C8	2:AA:1928:A:C3'	2.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1943:U:C1'	2:AA:1945:G:H5'	2.39	0.49
2:AA:1945:G:C2	2:AA:1946:U:C5	3.01	0.49
2:AA:1969:A:C5'	2:AA:1970:A:H5'	2.42	0.49
2:AA:2010:G:OP1	18:AS:41:LYS:HB3	2.12	0.49
2:AA:2022:U:H4'	2:AA:2023:G:OP1	2.08	0.49
2:AA:2040:C:N3	2:AA:2041:U:C4	2.81	0.49
2:AA:2081:C:H5'	28:A4:35:VAL:CG2	2.43	0.49
2:AA:2082:A:H2'	2:AA:2083:G:C8	2.48	0.49
2:AA:2093:G:C4'	10:AK:29:PHE:CE1	2.91	0.49
2:AA:2217:G:N3	2:AA:2218:G:C8	2.80	0.49
2:AA:2331:G:H4'	27:A3:70:ILE:HB	1.95	0.49
2:AA:2458:G:H2'	2:AA:2490:G:H1	1.78	0.49
2:AA:2560:C:O2	2:AA:2560:C:C2'	2.36	0.49
2:AA:2623:G:H2'	2:AA:2624:G:O5'	2.12	0.49
3:AC:95:GLY:HA3	3:AC:99:ILE:CG1	2.42	0.49
4:AD:65:ASP:C	4:AD:67:LYS:NZ	2.71	0.49
4:AD:140:VAL:CG1	4:AD:191:VAL:HG12	2.42	0.49
4:AD:144:GLU:CD	4:AD:148:GLY:H	2.21	0.49
5:AE:173:ARG:O	5:AE:174:LEU:C	2.56	0.49
5:AE:222:ARG:O	5:AE:227:ALA:CA	2.58	0.49
5:AE:222:ARG:HE	5:AE:233:ARG:HA	1.77	0.49
5:AE:227:ALA:O	5:AE:231:TRP:O	2.29	0.49
6:AF:164:ALA:HB1	6:AF:232:LEU:CD1	2.42	0.49
7:AG:19:GLU:OE2	7:AG:139:TYR:HD2	1.95	0.49
8:AH:34:ARG:HH11	8:AH:70:LEU:CD2	2.25	0.49
9:AI:39:VAL:HG13	9:AJ:39:VAL:HG22	1.94	0.49
9:AI:58:GLU:O	9:AI:128:LYS:NZ	2.46	0.49
9:AI:91:LEU:O	9:AI:92:VAL:C	2.54	0.49
9:AJ:91:LEU:O	9:AJ:92:VAL:C	2.56	0.49
10:AK:115:ILE:N	10:AK:131:VAL:HG13	2.27	0.49
10:AK:141:LEU:CD2	10:AK:142:LYS:N	2.70	0.49
11:AL:15:ALA:HA	11:AL:46:THR:CG2	2.43	0.49
11:AL:37:GLU:HB3	11:AL:41:ARG:NH1	2.28	0.49
14:AO:110:GLY:N	14:AO:126:SER:OG	2.45	0.49
15:AP:49:VAL:HA	15:AP:121:ASP:CB	2.43	0.49
15:AP:57:ARG:C	15:AP:61:LEU:CD1	2.85	0.49
18:AS:30:GLU:N	18:AS:33:ARG:CD	2.76	0.49
18:AS:69:LEU:HD23	18:AS:109:GLU:HA	1.94	0.49
22:AW:6:GLN:O	22:AW:7:GLU:C	2.56	0.49
23:AX:6:VAL:HG22	23:AX:54:VAL:HG21	1.94	0.49
27:A3:87:GLU:N	27:A3:87:GLU:OE2	2.45	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:15:G:C2	34:BA:16:A:C5	3.01	0.49
34:BA:67:C:H1'	34:BA:172:A:H1'	1.94	0.49
34:BA:162:A:H2'	34:BA:163:C:C4'	2.43	0.49
34:BA:384:G:H2'	34:BA:385:C:O4'	2.11	0.49
34:BA:405:U:O4	39:BG:2:GLY:CA	2.61	0.49
34:BA:462:G:N2	34:BA:463:A:C4	2.81	0.49
34:BA:501:C:N4	34:BA:502:G:O6	2.45	0.49
34:BA:533:A:C6	34:BA:536:C:C5	3.00	0.49
34:BA:538:G:P	47:BO:115:LYS:CG	3.01	0.49
34:BA:553:A:H2'	34:BA:554:C:O4'	2.13	0.49
34:BA:586:C:OP1	52:BT:34:LYS:HD3	2.13	0.49
34:BA:670:G:H2'	34:BA:671:G:O5'	2.13	0.49
34:BA:792:A:C2'	34:BA:794:A:N6	2.68	0.49
34:BA:857:C:O2'	34:BA:858:G:H5'	2.13	0.49
34:BA:862:C:C1'	34:BA:874:G:H5''	2.34	0.49
34:BA:890:G:C2'	34:BA:891:U:OP2	2.61	0.49
34:BA:892:A:C6	34:BA:907:A:C8	3.00	0.49
34:BA:1074:G:N7	34:BA:1075:C:C5	2.80	0.49
34:BA:1098:C:C2'	34:BA:1099:G:H5'	2.40	0.49
34:BA:1126:U:H2'	34:BA:1127:G:O5'	2.13	0.49
34:BA:1232:U:OP1	44:BL:126:SER:CB	2.61	0.49
34:BA:1238:A:C2	34:BA:1241:G:N3	2.81	0.49
34:BA:1336:C:H1'	34:BA:1337:G:N1	2.28	0.49
34:BA:1406:U:C2	34:BA:1407:C:C5	3.00	0.49
34:BA:1454:G:O2'	34:BA:1455:G:O5'	2.30	0.49
34:BA:1494:G:N3	34:BA:1495:U:C5	2.80	0.49
34:BA:1528:U:HO2'	34:BA:1529:G:P	2.35	0.49
35:BB:32:C:C5	35:BB:33:U:C4	3.01	0.49
35:BC:58:A:H3'	35:BC:61:C:H41	1.78	0.49
37:BE:45:GLN:O	37:BE:49:GLU:OE1	2.30	0.49
37:BE:97:TRP:CD2	37:BE:173:ALA:HB2	2.48	0.49
37:BE:126:GLU:O	37:BE:127:ILE:O	2.30	0.49
37:BE:141:GLU:HG2	37:BE:145:LEU:HD23	1.93	0.49
37:BE:181:PHE:CD1	43:BK:71:GLY:HA3	2.47	0.49
38:BF:29:TYR:C	38:BF:29:TYR:CD2	2.91	0.49
38:BF:88:ARG:HH21	38:BF:100:ALA:CB	2.25	0.49
38:BF:97:LYS:O	38:BF:98:ASN:OD1	2.30	0.49
38:BF:134:ILE:O	38:BF:135:LYS:C	2.55	0.49
38:BF:160:ALA:C	38:BF:162:GLN:N	2.67	0.49
39:BG:31:CYS:O	39:BG:32:ALA:HB3	2.12	0.49
39:BG:105:VAL:CG1	39:BG:117:ALA:HA	2.43	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:76:ILE:HG21	40:BH:142:LEU:HD22	1.94	0.49
40:BH:149:GLU:O	40:BH:150:ARG:C	2.54	0.49
41:BI:45:LEU:CD2	41:BI:59:TYR:CD1	2.94	0.49
41:BI:48:LEU:HD22	41:BI:60:PHE:CZ	2.48	0.49
43:BK:5:PRO:O	43:BK:6:ILE:C	2.55	0.49
43:BK:21:LYS:O	43:BK:22:GLU:C	2.56	0.49
43:BK:44:PHE:HA	43:BK:79:VAL:HG13	1.95	0.49
44:BL:49:PRO:HG3	44:BL:78:LYS:CD	2.42	0.49
46:BN:84:VAL:O	46:BN:84:VAL:HG23	2.12	0.49
47:BO:37:CYS:O	47:BO:79:GLU:HA	2.12	0.49
47:BO:58:VAL:O	47:BO:60:LEU:CD1	2.61	0.49
50:BR:11:VAL:O	50:BR:12:ILE:C	2.55	0.49
51:BS:54:GLU:O	51:BS:56:ALA:N	2.46	0.49
53:BU:38:GLU:N	53:BU:38:GLU:CD	2.70	0.49
53:BU:79:LEU:HD13	53:BU:79:LEU:N	2.28	0.49
55:BW:20:LEU:O	55:BW:23:ARG:HB3	2.13	0.49
2:AA:36:G:H2'	2:AA:37:C:O4'	2.13	0.49
2:AA:71:A:C2	2:AA:73:A:H8	2.28	0.49
2:AA:181:A:H2'	2:AA:182:A:C8	2.47	0.49
2:AA:204:A:O2'	2:AA:205:G:C5'	2.61	0.49
2:AA:244:A:C4	2:AA:255:A:N6	2.81	0.49
2:AA:370:G:C2	2:AA:424:G:C8	3.01	0.49
2:AA:572:A:N7	2:AA:573:G:C6	2.81	0.49
2:AA:646:A:C2	2:AA:647:G:C4	3.01	0.49
2:AA:881:G:C2	2:AA:882:G:H1'	2.48	0.49
2:AA:929:G:O3'	23:AX:37:LEU:CD2	2.61	0.49
2:AA:975:G:N1	2:AA:976:C:C5	2.80	0.49
2:AA:1021:A:H3'	2:AA:1021:A:H8	1.77	0.49
2:AA:1021:A:H5''	12:AM:49:ARG:HH11	1.77	0.49
2:AA:1024:G:O6	2:AA:1025:G:C8	2.64	0.49
2:AA:1081:U:H5''	11:AL:123:ALA:CA	2.40	0.49
2:AA:1084:A:H1'	9:AI:25:LEU:CB	2.43	0.49
2:AA:1150:C:H2'	2:AA:1151:G:C8	2.48	0.49
2:AA:1214:A:H2'	2:AA:1214:A:N3	2.27	0.49
2:AA:1255:U:H6	2:AA:2502:G:H21	1.61	0.49
2:AA:1284:A:H2'	2:AA:1285:G:C8	2.47	0.49
2:AA:1326:U:H5'	2:AA:2010:G:N2	2.27	0.49
2:AA:1342:A:N3	2:AA:1345:C:C5	2.81	0.49
2:AA:1404:C:H2'	2:AA:1404:C:O2	2.12	0.49
2:AA:1427:A:C8	2:AA:1427:A:OP1	2.66	0.49
2:AA:1439:A:C8	2:AA:1440:G:O4'	2.66	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1769:G:N1	2:AA:1984:G:C6	2.81	0.49
2:AA:1890:A:H2	2:AA:2235:G:H4'	1.78	0.49
2:AA:1926:U:C6	2:AA:1926:U:C3'	2.95	0.49
2:AA:1947:C:C4	2:AA:1948:G:N7	2.81	0.49
2:AA:1956:U:C2	2:AA:1957:C:C6	3.00	0.49
2:AA:1995:U:C6	2:AA:1995:U:H3'	2.48	0.49
2:AA:2038:G:O5'	2:AA:2038:G:C8	2.58	0.49
2:AA:2069:G:N2	2:AA:2070:G:C4	2.81	0.49
2:AA:2227:A:C2	2:AA:2228:G:C6	3.01	0.49
2:AA:2250:G:H5''	15:AP:102:ARG:CG	2.42	0.49
2:AA:2317:C:N4	2:AA:2318:G:O6	2.46	0.49
2:AA:2324:C:N4	2:AA:2331:G:N1	2.07	0.49
2:AA:2472:G:H1'	2:AA:2478:A:H61	1.77	0.49
2:AA:2478:A:C8	2:AA:2478:A:C3'	2.96	0.49
2:AA:2485:G:H2'	2:AA:2486:G:O4'	2.13	0.49
2:AA:2631:G:C6	2:AA:2632:A:C8	3.01	0.49
2:AA:2660:A:H2'	2:AA:2661:G:O4'	2.13	0.49
2:AA:2712:U:OP1	2:AA:2714:G:C4'	2.61	0.49
2:AA:2789:C:C2	2:AA:2790:A:C2	3.01	0.49
2:AA:2808:U:C3'	2:AA:2809:A:H5''	2.42	0.49
3:AC:10:LEU:HG	3:AC:32:LEU:HB3	1.94	0.49
3:AC:56:GLN:O	3:AC:57:ASN:C	2.55	0.49
4:AD:68:ARG:NH2	4:AD:128:ALA:HB3	2.27	0.49
4:AD:73:ILE:O	4:AD:116:MET:HG3	2.13	0.49
4:AD:76:ARG:HD3	4:AD:113:MET:HB2	1.90	0.49
4:AD:90:ILE:CD1	4:AD:105:ALA:H	2.25	0.49
4:AD:132:GLU:O	4:AD:134:ILE:N	2.46	0.49
4:AD:161:ALA:HA	4:AD:174:ARG:O	2.13	0.49
4:AD:166:LYS:HB2	4:AD:171:VAL:CG1	2.40	0.49
4:AD:174:ARG:HH21	4:AD:180:VAL:HG11	1.77	0.49
4:AD:234:HIS:HB3	4:AD:235:PRO:HD2	1.95	0.49
5:AE:222:ARG:NH1	5:AE:234:ARG:NH2	2.61	0.49
5:AE:226:HIS:CB	5:AE:229:GLN:OE1	2.61	0.49
6:AF:153:VAL:HG13	6:AF:157:LEU:HD21	1.94	0.49
7:AG:21:VAL:HG21	7:AG:80:ALA:HB1	1.94	0.49
8:AH:10:ILE:O	8:AH:14:VAL:CB	2.60	0.49
8:AH:55:SER:O	8:AH:57:GLU:HG2	2.13	0.49
9:AI:125:VAL:HG12	9:AI:126:GLU:N	2.28	0.49
9:AJ:71:ILE:CB	11:AL:61:TYR:HB2	2.41	0.49
9:AJ:74:ILE:HB	11:AL:61:TYR:CE2	2.48	0.49
12:AM:50:GLU:O	12:AM:54:VAL:CG2	2.60	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:70:PHE:O	12:AM:71:TYR:HB2	2.12	0.49
14:AO:60:GLU:N	14:AO:60:GLU:OE1	2.46	0.49
14:AO:71:GLU:HA	14:AO:74:THR:CG2	2.38	0.49
15:AP:94:ARG:C	15:AP:95:GLU:CD	2.80	0.49
17:AR:34:SER:O	17:AR:35:LYS:C	2.54	0.49
18:AS:23:LEU:HD11	29:A5:27:ALA:H	1.73	0.49
18:AS:45:TYR:O	18:AS:46:PHE:C	2.55	0.49
18:AS:55:ALA:HA	18:AS:58:ALA:HB3	1.94	0.49
19:AT:9:HIS:CE1	19:AT:27:ALA:HA	2.48	0.49
20:AU:31:LEU:CA	20:AU:34:GLU:CD	2.86	0.49
21:AV:55:THR:HG23	21:AV:61:THR:CG2	2.42	0.49
21:AV:141:MET:O	21:AV:142:ASN:CG	2.56	0.49
25:A1:86:ALA:CB	25:A1:90:LEU:HD23	2.43	0.49
25:A1:99:ALA:CB	25:A1:106:PHE:CG	2.96	0.49
25:A1:107:LYS:O	25:A1:108:ALA:C	2.55	0.49
27:A3:18:PRO:O	27:A3:19:LYS:CB	2.60	0.49
28:A4:5:LEU:CD1	28:A4:10:VAL:HG23	2.43	0.49
29:A5:46:CYS:O	29:A5:49:CYS:N	2.46	0.49
32:A8:19:THR:CB	32:A8:21:LYS:HZ2	2.25	0.49
34:BA:77:G:H1	34:BA:92:C:H42	0.65	0.49
34:BA:99:C:H3'	34:BA:99:C:C6	2.48	0.49
34:BA:128:G:H5'	52:BT:2:PRO:HD2	1.94	0.49
34:BA:166:G:N2	34:BA:167:G:H1'	2.28	0.49
34:BA:245:C:C2	34:BA:284:G:C2	3.01	0.49
34:BA:247:G:H1	34:BA:277:C:H42	1.58	0.49
34:BA:315:A:N1	34:BA:330:C:C5	2.81	0.49
34:BA:319:G:H2'	34:BA:320:C:O5'	2.13	0.49
34:BA:342:C:C2	34:BA:348:G:C2	3.01	0.49
34:BA:398:C:O5'	34:BA:398:C:H6	1.95	0.49
34:BA:511:C:N1	34:BA:512:U:C5	2.80	0.49
34:BA:539:A:OP1	47:BO:114:LYS:CE	2.59	0.49
34:BA:568:G:C2	34:BA:569:C:C5	3.00	0.49
34:BA:583:A:H61	34:BA:758:G:H1'	1.78	0.49
34:BA:621:A:N6	34:BA:622:A:N6	2.61	0.49
34:BA:625:G:H4'	51:BS:16:HIS:CD2	2.48	0.49
34:BA:662:G:O2'	34:BA:836:G:OP1	2.30	0.49
34:BA:701:C:H5''	34:BA:702:A:H3'	1.94	0.49
34:BA:703:G:C8	34:BA:703:G:P	3.05	0.49
34:BA:715:A:C5'	34:BA:777:A:N6	2.75	0.49
34:BA:734:G:H2'	34:BA:735:C:H6	1.66	0.49
34:BA:750:G:H1'	50:BR:22:THR:OG1	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:922:G:C5'	40:BH:20:GLN:HE21	2.23	0.49
34:BA:947:G:C2	34:BA:948:C:C2	3.01	0.49
34:BA:970:C:H4'	34:BA:972:C:C5	2.48	0.49
34:BA:979:C:N3	49:BQ:19:ARG:HG3	2.28	0.49
34:BA:1281:U:H6	34:BA:1281:U:H3'	1.76	0.49
34:BA:1455:G:OP1	55:BW:32:ALA:HA	2.13	0.49
35:BC:36:A:H2'	35:BC:37:G:O5'	2.13	0.49
36:B1:21:U:H2'	36:B1:22:C:C6	2.47	0.49
37:BE:62:ALA:CB	37:BE:225:ALA:HB3	2.43	0.49
37:BE:121:LEU:O	37:BE:122:PHE:HD1	1.94	0.49
38:BF:23:TYR:CD1	45:BM:11:PHE:CG	3.01	0.49
38:BF:59:ARG:CD	38:BF:64:VAL:HG22	2.43	0.49
38:BF:121:ALA:O	38:BF:122:GLU:C	2.54	0.49
40:BH:15:ARG:HH11	40:BH:15:ARG:CG	2.21	0.49
40:BH:35:GLY:HA3	40:BH:41:VAL:CG1	2.43	0.49
40:BH:56:GLN:O	40:BH:57:LYS:C	2.55	0.49
43:BK:51:VAL:HG12	43:BK:52:ASP:H	1.76	0.49
43:BK:60:ARG:HG3	43:BK:61:VAL:H	1.77	0.49
43:BK:82:HIS:O	43:BK:137:VAL:CA	2.54	0.49
44:BL:36:TYR:C	44:BL:38:GLN:H	2.21	0.49
47:BO:114:LYS:O	47:BO:117:ARG:CG	2.58	0.49
48:BP:29:ARG:NH1	48:BP:64:TRP:CD1	2.80	0.49
50:BR:82:ILE:O	50:BR:83:GLU:C	2.55	0.49
51:BS:4:ILE:HG13	51:BS:66:PRO:CA	2.43	0.49
51:BS:14:ASN:HA	51:BS:42:ARG:HH22	1.75	0.49
51:BS:23:ASP:OD1	51:BS:25:ARG:NE	2.46	0.49
52:BT:53:LEU:CD1	52:BT:54:GLY:N	2.73	0.49
52:BT:97:SER:HB2	52:BT:102:GLY:O	2.13	0.49
54:BV:10:PHE:O	54:BV:11:VAL:CG2	2.60	0.49
54:BV:36:ARG:NH2	54:BV:72:GLY:O	2.44	0.49
54:BV:63:THR:H	54:BV:66:MET:CG	2.26	0.49
1:AB:11:C:N3	1:AB:109:G:C6	2.77	0.49
1:AB:34:U:C4	1:AB:48:A:N1	2.81	0.49
1:AB:76:G:H2'	1:AB:77:U:C4	2.48	0.49
2:AA:2:G:H2'	2:AA:3:U:C6	2.47	0.49
2:AA:13:A:O2'	2:AA:14:A:OP2	2.29	0.49
2:AA:30:G:O2'	2:AA:31:C:C5'	2.60	0.49
2:AA:38:A:C2'	2:AA:39:C:H6	2.26	0.49
2:AA:46:C:C5	2:AA:215:G:N7	2.81	0.49
2:AA:61:G:C5	2:AA:62:C:C4	3.01	0.49
2:AA:109:G:C2'	2:AA:110:G:O5'	2.61	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:139:G:H3'	2:AA:141(A):C:C2	2.46	0.49
2:AA:182:A:H2'	2:AA:183:C:C5	2.48	0.49
2:AA:247:G:C2	32:A8:8:LYS:HE3	2.48	0.49
2:AA:262:A:H5''	2:AA:609(A):G:H5'	1.95	0.49
2:AA:290:G:C8	2:AA:290:G:C3'	2.96	0.49
2:AA:374:A:O2'	2:AA:375:C:H5'	2.13	0.49
2:AA:457:A:H8	2:AA:471:A:N6	2.06	0.49
2:AA:459:U:OP2	31:A7:40:HIS:CD2	2.66	0.49
2:AA:645:C:OP2	2:AA:2369:A:C4'	2.60	0.49
2:AA:685:A:O5'	2:AA:774:A:N6	2.46	0.49
2:AA:748:G:C5	2:AA:750:A:C5	3.00	0.49
2:AA:804:A:C2'	2:AA:806:C:H42	2.26	0.49
2:AA:847:U:N3	2:AA:934:G:N3	2.54	0.49
2:AA:863:A:C4	2:AA:864:G:N7	2.81	0.49
2:AA:957:A:H5''	2:AA:957:A:H8	1.78	0.49
2:AA:975:G:N3	2:AA:975:G:H2'	2.28	0.49
2:AA:1037:G:N1	2:AA:1119:C:C2	2.81	0.49
2:AA:1076:C:H5'	11:AL:94:ARG:CZ	2.43	0.49
2:AA:1151:G:H2'	2:AA:1152:C:H6	1.77	0.49
2:AA:1177:A:C4	2:AA:1178:C:C5	3.01	0.49
2:AA:1206:G:H1'	2:AA:1242:A:C6	2.46	0.49
2:AA:1212:G:C4	2:AA:1236:G:N1	2.80	0.49
2:AA:1321:A:C2	2:AA:1322:A:C4	3.01	0.49
2:AA:1324:G:O2'	2:AA:1616:A:N6	2.46	0.49
2:AA:1346:G:C2	2:AA:1347:G:N7	2.80	0.49
2:AA:1386:C:C2	2:AA:1387:C:C5	3.01	0.49
2:AA:1414:G:C6	2:AA:1415:U:O4	2.65	0.49
2:AA:1439:A:O2'	2:AA:1440:G:H5'	2.13	0.49
2:AA:1534:G:O6	2:AA:1539:G:H1'	2.12	0.49
2:AA:1578:U:H3'	2:AA:1579:A:C8	2.47	0.49
2:AA:1776:G:N2	2:AA:1777:U:C2	2.81	0.49
2:AA:1889:A:O4'	2:AA:2087:G:C4'	2.61	0.49
2:AA:1933:G:H2'	2:AA:1934:C:C5'	2.43	0.49
2:AA:1995:U:C4	2:AA:1996:C:N4	2.80	0.49
2:AA:2004:G:C8	2:AA:2005:A:N7	2.80	0.49
2:AA:2023:G:N2	2:AA:2040:C:C2	2.73	0.49
2:AA:2078:C:H2'	2:AA:2079:U:O4'	2.13	0.49
2:AA:2246:G:C2'	2:AA:2247:A:C8	2.95	0.49
2:AA:2295:C:O2'	2:AA:2296:U:H5'	2.13	0.49
2:AA:2423:U:C6	2:AA:2423:U:C5'	2.93	0.49
2:AA:2464:C:C2	2:AA:2465:C:C6	3.00	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2468:G:H22	2:AA:2481:G:C1'	2.23	0.49
2:AA:2509:G:C2	2:AA:2510:C:N1	2.81	0.49
2:AA:2589:A:N6	2:AA:2590:A:C6	2.81	0.49
2:AA:2659:G:O2'	2:AA:2661:G:N7	2.39	0.49
2:AA:2781:A:O4'	2:AA:2781:A:OP1	2.30	0.49
2:AA:2832:U:O2'	2:AA:2834:G:C4	2.63	0.49
2:AA:2862:G:O2'	2:AA:2863:C:H5'	2.13	0.49
3:AC:45:ALA:CB	3:AC:212:VAL:HA	2.43	0.49
3:AC:56:GLN:O	3:AC:201:PRO:HB3	2.13	0.49
3:AC:96:GLY:O	3:AC:99:ILE:N	2.46	0.49
3:AC:129:ARG:O	3:AC:129:ARG:HG2	2.13	0.49
5:AE:222:ARG:NH2	5:AE:233:ARG:C	2.71	0.49
6:AF:34:ALA:O	6:AF:35:VAL:C	2.56	0.49
6:AF:35:VAL:HG12	6:AF:39:GLN:NE2	2.27	0.49
6:AF:206:ASN:O	6:AF:207:LEU:HD23	2.13	0.49
6:AF:216:SER:O	6:AF:217:GLU:HB2	2.13	0.49
7:AG:78:GLU:O	7:AG:81:GLU:CB	2.61	0.49
8:AH:41:THR:C	8:AH:52:THR:HG21	2.38	0.49
9:AI:64:LYS:O	9:AI:65:SER:CB	2.61	0.49
9:AI:91:LEU:O	9:AI:94:LYS:N	2.45	0.49
11:AL:24:VAL:HG12	11:AL:24:VAL:O	2.11	0.49
11:AL:117:ASN:OD1	11:AL:127:ILE:HD13	2.13	0.49
14:AO:57:VAL:HG12	14:AO:58:GLN:N	2.28	0.49
14:AO:62:ALA:HB2	14:AO:105:TYR:HB2	1.93	0.49
14:AO:94:ARG:HD3	14:AO:120:LEU:HB2	1.94	0.49
15:AP:45:GLN:HG2	15:AP:125:TRP:CE2	2.48	0.49
15:AP:54:VAL:O	15:AP:56:ILE:N	2.46	0.49
15:AP:135:ALA:O	15:AP:138:ARG:CB	2.61	0.49
16:AQ:99:GLU:OE2	16:AQ:128:ASP:OD2	2.31	0.49
18:AS:26:GLY:O	18:AS:27:LYS:CG	2.60	0.49
19:AT:34:LYS:HZ2	19:AT:52:VAL:CG1	2.25	0.49
21:AV:98:VAL:HB	21:AV:121:GLN:HE22	1.77	0.49
21:AV:172:LEU:HD23	21:AV:173:PRO:C	2.38	0.49
23:AX:52:HIS:O	23:AX:53:LEU:C	2.55	0.49
24:A0:32:GLY:HA2	24:A0:116:LEU:HD21	0.80	0.49
24:A0:89:ASP:OD1	24:A0:90:ARG:N	2.46	0.49
25:A1:89:ASP:OD2	26:A2:52:GLY:CA	2.61	0.49
26:A2:33:VAL:C	26:A2:63:HIS:CE1	2.90	0.49
26:A2:72:ARG:CB	26:A2:88:GLN:CG	2.84	0.49
27:A3:47:ALA:HB1	27:A3:73:GLY:O	2.13	0.49
28:A4:6:HIS:ND1	28:A4:6:HIS:N	2.61	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:A4:17:GLN:CG	28:A4:33:VAL:C	2.78	0.49
30:A6:2:ALA:N	30:A6:11:LYS:CD	2.74	0.49
33:A9:7:VAL:HG13	33:A9:25:VAL:CG2	2.43	0.49
34:BA:38:G:C4	34:BA:397:A:C2	3.00	0.49
34:BA:38:G:N1	34:BA:397:A:C2	2.81	0.49
34:BA:115:G:H4'	34:BA:116:A:H8	1.78	0.49
34:BA:151:A:C6	34:BA:152:A:C2	3.01	0.49
34:BA:190(E):U:H6	34:BA:190(E):U:H5''	1.78	0.49
34:BA:195:A:C4'	55:BW:68:LYS:HZ3	2.18	0.49
34:BA:321:A:N6	34:BA:322:C:N4	2.60	0.49
34:BA:335:C:O2'	34:BA:1433:A:N3	2.39	0.49
34:BA:520:A:C3'	34:BA:521:G:C5'	2.84	0.49
34:BA:538:G:OP2	47:BO:115:LYS:CG	2.61	0.49
34:BA:585:G:C2'	47:BO:8:ASN:HD21	2.25	0.49
34:BA:604:G:N1	34:BA:605:U:C2	2.81	0.49
34:BA:738:C:H5'	41:BI:72:VAL:HG21	1.95	0.49
34:BA:817:C:N4	34:BA:1529:G:C6	2.61	0.49
34:BA:979:C:C6	34:BA:980:C:C6	3.01	0.49
34:BA:979:C:H3'	34:BA:980:C:H6	1.77	0.49
34:BA:1158:C:N3	34:BA:1181:G:N2	2.61	0.49
34:BA:1163:C:H2'	34:BA:1164:G:C5'	2.43	0.49
34:BA:1214:C:O2	34:BA:1214:C:C2'	2.61	0.49
34:BA:1292:U:O2'	34:BA:1293:G:C5'	2.61	0.49
34:BA:1540:U:C4	34:BA:1541:U:C4	3.01	0.49
35:BB:29:A:N3	35:BB:30:G:C8	2.81	0.49
35:BC:75:C:OP1	35:BC:76:A:OP2	2.31	0.49
36:B1:14:U:H2'	36:B1:15:A:C8	2.48	0.49
36:B1:23:U:OP2	36:B1:24:A:N7	2.46	0.49
37:BE:19:HIS:CG	37:BE:20:GLU:N	2.81	0.49
37:BE:30:ARG:HG2	37:BE:31:TYR:HD1	1.78	0.49
37:BE:60:ASP:CG	37:BE:64:ARG:NH2	2.71	0.49
38:BF:2:GLY:C	38:BF:3:ASN:OD1	2.56	0.49
38:BF:28:GLN:CA	38:BF:30:ARG:HH12	2.25	0.49
38:BF:51:GLY:C	38:BF:70:VAL:HG13	2.38	0.49
38:BF:119:ARG:HG2	38:BF:140:ARG:HH22	1.78	0.49
38:BF:182:ILE:HG23	38:BF:203:PHE:N	2.28	0.49
39:BG:127:THR:C	39:BG:128:VAL:O	2.50	0.49
39:BG:182:LYS:HB3	39:BG:182:LYS:NZ	2.28	0.49
40:BH:151:LEU:O	43:BK:64:LYS:HE2	2.13	0.49
41:BI:12:PRO:HG3	41:BI:57:GLN:NE2	2.28	0.49
41:BI:91:VAL:CG2	53:BU:72:ARG:NH1	2.52	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:67:PRO:CG	43:BK:77:GLU:H	2.26	0.49
44:BL:5:TYR:O	44:BL:84:ALA:HA	2.12	0.49
44:BL:23:ASN:O	44:BL:57:GLY:C	2.56	0.49
45:BM:45:ARG:HH11	45:BM:45:ARG:CG	2.26	0.49
48:BP:25:ILE:HG12	48:BP:66:LEU:HD11	1.94	0.49
48:BP:48:LEU:HD22	48:BP:53:VAL:CG2	2.37	0.49
51:BS:21:VAL:HG23	51:BS:34:GLU:HB3	1.93	0.49
51:BS:49:LEU:HD12	51:BS:50:LYS:N	2.28	0.49
51:BS:78:GLY:C	51:BS:79:VAL:HG23	2.37	0.49
52:BT:29:HIS:CG	52:BT:32:TYR:H	2.31	0.49
54:BV:33:THR:CG2	54:BV:34:TRP:H	2.24	0.49
1:AB:62:C:H2'	1:AB:63:G:H8	1.78	0.48
1:AB:79:C:O2'	1:AB:80:U:H5'	2.13	0.48
2:AA:27:G:H2'	2:AA:28:A:OP2	2.13	0.48
2:AA:59:U:C6	2:AA:73:A:C6	3.00	0.48
2:AA:85:G:N2	2:AA:97:C:N3	2.51	0.48
2:AA:135:G:N3	2:AA:135:G:H2'	2.27	0.48
2:AA:202:U:C2'	2:AA:203:C:O4'	2.60	0.48
2:AA:253:C:H2'	2:AA:254:G:O5'	2.13	0.48
2:AA:270(X):G:H4'	2:AA:273:G:P	2.52	0.48
2:AA:270(Z):U:HO2'	2:AA:271(A):C:P	2.34	0.48
2:AA:322:A:N3	2:AA:341:G:N9	2.61	0.48
2:AA:443:A:N7	6:AF:43:LYS:HD3	2.28	0.48
2:AA:444:C:O2'	2:AA:445:C:C5'	2.50	0.48
2:AA:479:A:O2'	2:AA:480:A:H5'	2.13	0.48
2:AA:534:U:H5'	25:A1:46:GLU:HG2	1.95	0.48
2:AA:544:C:C2	2:AA:549:G:N1	2.77	0.48
2:AA:552:G:HO2'	2:AA:553:U:H5'	1.78	0.48
2:AA:707:G:N1	2:AA:724:U:N3	2.53	0.48
2:AA:740:U:C2'	2:AA:741:G:O5'	2.61	0.48
2:AA:756:C:C4	2:AA:757:U:C5	3.01	0.48
2:AA:776:G:C6	2:AA:793:A:N7	2.81	0.48
2:AA:957:A:C2	2:AA:2459:A:O4'	2.66	0.48
2:AA:969:U:H4'	23:AX:14:GLY:HA2	1.94	0.48
2:AA:1022:G:H1'	2:AA:1023:U:H5	1.77	0.48
2:AA:1071:G:C3'	2:AA:1072:C:H5'	2.43	0.48
2:AA:1140:C:O2'	2:AA:1141:U:P	2.70	0.48
2:AA:1181:C:N1	2:AA:1182:A:C8	2.81	0.48
2:AA:1201:C:C2'	2:AA:1202:C:O5'	2.61	0.48
2:AA:1312:U:O4	19:AT:58:MET:HE2	2.13	0.48
2:AA:1406:U:H2'	2:AA:1407:C:O5'	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1427:A:O2'	2:AA:1428:C:P	2.71	0.48
2:AA:1649:G:C6	2:AA:2009:G:C6	3.01	0.48
2:AA:1693:U:O2	2:AA:1693:U:C2'	2.60	0.48
2:AA:1695:G:C2	2:AA:1696:G:N9	2.81	0.48
2:AA:1790:C:OP1	4:AD:224:VAL:HA	2.13	0.48
2:AA:1819:A:C1'	2:AA:1821:A:N7	2.76	0.48
2:AA:1853:A:H2	2:AA:2087:G:N3	2.11	0.48
2:AA:1860:G:H2'	2:AA:1861:G:C8	2.48	0.48
2:AA:1982:C:O5'	2:AA:1982:C:H6	1.96	0.48
2:AA:1995:U:O3'	13:AN:31:ARG:NH1	2.44	0.48
2:AA:2033:A:C2'	2:AA:2034:U:O5'	2.61	0.48
2:AA:2053:G:N3	2:AA:2054:A:C8	2.80	0.48
2:AA:2089:U:O2	2:AA:2231:C:N3	2.46	0.48
2:AA:2152:G:C4	2:AA:2153:G:C8	3.01	0.48
2:AA:2292:C:H2'	2:AA:2293:C:C6	2.48	0.48
2:AA:2292:C:H2'	2:AA:2293:C:H6	1.78	0.48
2:AA:2462:U:H2'	2:AA:2463:C:C5'	2.43	0.48
2:AA:2474:C:H2'	2:AA:2475:C:H5'	1.94	0.48
2:AA:2513:G:C6	2:AA:2514:U:N3	2.81	0.48
2:AA:2585:U:OP1	2:AA:2585:U:O4'	2.31	0.48
2:AA:2689:U:O2	2:AA:2713:A:OP2	2.31	0.48
2:AA:2726:U:H5''	2:AA:2727:G:OP2	2.14	0.48
2:AA:2768:C:C4	2:AA:2769:C:C5	3.01	0.48
3:AC:10:LEU:HD11	3:AC:32:LEU:C	2.37	0.48
3:AC:79:LYS:CD	3:AC:119:VAL:HG12	2.43	0.48
3:AC:148:ASN:ND2	3:AC:151:GLU:CB	2.76	0.48
5:AE:41:PHE:CZ	5:AE:173:ARG:CD	2.96	0.48
5:AE:45:LYS:NZ	5:AE:301:PRO:O	2.40	0.48
6:AF:54:LEU:O	6:AF:79:ARG:CD	2.61	0.48
6:AF:149:LYS:HB2	6:AF:152:GLU:CG	2.36	0.48
6:AF:149:LYS:N	6:AF:152:GLU:OE2	2.46	0.48
8:AH:83:GLU:C	8:AH:83:GLU:OE2	2.56	0.48
8:AH:93:TYR:CG	8:AH:159:LYS:HE2	2.48	0.48
9:AI:12:LYS:HD2	9:AJ:82:GLY:CA	2.35	0.48
9:AJ:73:VAL:HG21	9:AJ:122:GLY:C	2.36	0.48
12:AM:15:ARG:HE	12:AM:40:ASN:CG	2.20	0.48
13:AN:58:VAL:CG1	13:AN:59:LYS:H	2.19	0.48
15:AP:36:ASN:ND2	15:AP:41:THR:N	2.59	0.48
15:AP:49:VAL:CG2	15:AP:120:HIS:CA	2.90	0.48
15:AP:123:ILE:HG22	15:AP:125:TRP:N	2.28	0.48
16:AQ:104:ILE:C	16:AQ:106:LEU:N	2.71	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:56:ALA:O	18:AS:60:ASN:CG	2.56	0.48
18:AS:83:LYS:O	18:AS:84:ARG:CZ	2.61	0.48
19:AT:32:ALA:HA	19:AT:36:GLU:CD	2.38	0.48
19:AT:42:GLU:CB	19:AT:49:VAL:HG23	2.42	0.48
20:AU:78:THR:O	20:AU:89:ARG:CZ	2.61	0.48
21:AV:25:ASN:OD1	21:AV:25:ASN:C	2.56	0.48
21:AV:175:ARG:CZ	21:AV:175:ARG:HA	2.42	0.48
24:A0:23:ASN:O	24:A0:26:LYS:HB2	2.13	0.48
24:A0:104:ARG:O	24:A0:107:ASP:HB3	2.13	0.48
25:A1:11:ARG:O	25:A1:12:ARG:C	2.55	0.48
25:A1:61:TRP:CZ3	25:A1:93:LYS:HB3	2.47	0.48
26:A2:42:GLY:HA3	26:A2:54:TYR:CZ	2.48	0.48
28:A4:22:MET:O	28:A4:28:ARG:O	2.31	0.48
29:A5:46:CYS:HB3	29:A5:48:ASN:ND2	2.27	0.48
30:A6:41:ASP:O	30:A6:42:PRO:C	2.56	0.48
34:BA:124:G:C5	34:BA:125:U:C4	3.00	0.48
34:BA:188:C:O2'	34:BA:189:G:H5'	2.13	0.48
34:BA:257:G:C2'	34:BA:258:G:O5'	2.61	0.48
34:BA:460:A:N7	34:BA:462:G:C5	2.81	0.48
34:BA:553:A:C2'	34:BA:554:C:O4'	2.61	0.48
34:BA:714:G:C1'	34:BA:777:A:N7	2.72	0.48
34:BA:752:G:C2'	34:BA:753:A:OP2	2.61	0.48
34:BA:775:G:C2'	34:BA:776:G:O5'	2.61	0.48
34:BA:778:G:C2	34:BA:779:C:C6	3.01	0.48
34:BA:819:A:N1	34:BA:1529:G:C5	2.81	0.48
34:BA:854:G:N1	34:BA:855:G:C5	2.81	0.48
34:BA:943:U:C2	34:BA:944:G:C8	3.01	0.48
34:BA:1025:U:H4'	34:BA:1025:U:OP1	2.12	0.48
34:BA:1130:A:N6	34:BA:1144:G:N3	2.57	0.48
34:BA:1194:U:C2'	34:BA:1195:C:O5'	2.60	0.48
34:BA:1261:A:N6	34:BA:1274:G:C1'	2.70	0.48
34:BA:1268:A:C2'	34:BA:1269:A:O5'	2.61	0.48
34:BA:1327:C:H5''	56:BX:20:LYS:CE	2.35	0.48
34:BA:1418:A:C6	34:BA:1483:A:C5	3.00	0.48
34:BA:1449:C:H2'	34:BA:1450:U:H5'	1.95	0.48
35:BB:1:G:N1	35:BB:73:A:C5	2.81	0.48
35:BB:67:A:C6	35:BB:68:U:C4	3.01	0.48
35:BC:21:A:N7	35:BC:46:G:N1	2.61	0.48
36:B1:70:U:O4	38:BF:131:ARG:NH2	2.45	0.48
37:BE:115:LEU:CD2	37:BE:149:LEU:HB3	2.41	0.48
38:BF:156:ARG:H	38:BF:163:ALA:HB1	1.78	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:50:ARG:NH1	39:BG:52:SER:HA	2.28	0.48
41:BI:16:GLN:O	41:BI:18:GLN:N	2.46	0.48
41:BI:75:LEU:O	41:BI:79:LEU:CG	2.55	0.48
42:BJ:37:ASN:HD22	42:BJ:37:ASN:C	2.17	0.48
42:BJ:138:LYS:CE	42:BJ:142:GLU:OE1	2.50	0.48
43:BK:4:ASP:CB	43:BK:6:ILE:CG2	2.91	0.48
43:BK:28:ALA:CB	43:BK:57:PRO:C	2.86	0.48
43:BK:93:VAL:HG12	43:BK:95:VAL:HG13	1.95	0.48
45:BM:22:LYS:NZ	45:BM:90:LEU:HD12	2.27	0.48
46:BN:18:ARG:HD3	46:BN:18:ARG:N	2.27	0.48
48:BP:29:ARG:CD	48:BP:64:TRP:NE1	2.76	0.48
48:BP:72:ALA:O	48:BP:75:ALA:HB3	2.12	0.48
50:BR:3:ILE:CG2	50:BR:34:LEU:HD11	2.43	0.48
55:BW:73:HIS:O	55:BW:76:ALA:CB	2.58	0.48
1:AB:49:C:P	16:AQ:110:THR:OG1	2.72	0.48
1:AB:81:G:C4	1:AB:82:G:C8	3.01	0.48
2:AA:14:A:C2'	2:AA:15:G:O5'	2.61	0.48
2:AA:109:G:H21	2:AA:110:G:H1'	1.71	0.48
2:AA:120:U:H1'	2:AA:150:C:C6	2.48	0.48
2:AA:197:A:C6	2:AA:2430:A:C8	3.01	0.48
2:AA:337:C:H5''	2:AA:338:G:OP2	2.13	0.48
2:AA:397:G:P	28:A4:10:VAL:CG1	3.01	0.48
2:AA:448:U:N3	2:AA:583:G:H1'	2.28	0.48
2:AA:530:G:N2	2:AA:2021:C:O4'	2.46	0.48
2:AA:531:C:N4	25:A1:38:THR:HA	2.25	0.48
2:AA:571:A:HO2'	2:AA:572:A:P	2.37	0.48
2:AA:666:G:HO2'	2:AA:667:U:C5'	2.26	0.48
2:AA:696:G:C5	2:AA:697:C:C5	3.01	0.48
2:AA:908:C:O2	2:AA:908:C:C2'	2.60	0.48
2:AA:910:A:H2	2:AA:2264:C:O2	1.93	0.48
2:AA:932:G:C5'	23:AX:24:LYS:HZ1	2.24	0.48
2:AA:1180:C:N3	2:AA:1181:C:C4	2.81	0.48
2:AA:1203:G:C4	2:AA:1206:G:C8	3.01	0.48
2:AA:1272:A:C2'	2:AA:1273:U:OP1	2.60	0.48
2:AA:1324:G:H4'	2:AA:1616:A:N6	2.28	0.48
2:AA:1364:G:H22	2:AA:1367:A:P	2.35	0.48
2:AA:1366:A:OP1	28:A4:1:MET:N	2.41	0.48
2:AA:1410:G:N1	2:AA:1593:G:C6	2.81	0.48
2:AA:1442:G:H2'	2:AA:1443:G:H8	1.77	0.48
2:AA:1462:C:C5'	2:AA:1463:C:OP2	2.61	0.48
2:AA:1491:G:H22	2:AA:1497:U:P	2.36	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1523:U:H2'	2:AA:1524:G:C5'	2.43	0.48
2:AA:1652:A:N7	2:AA:1653:G:C2	2.81	0.48
2:AA:1726:G:N1	2:AA:1734:C:C2	2.80	0.48
2:AA:1754:C:N4	2:AA:1755:A:C6	2.81	0.48
2:AA:1769:G:O2'	2:AA:1770:G:H5'	2.12	0.48
2:AA:1815:A:N3	2:AA:1817:G:C6	2.81	0.48
2:AA:1858:G:O2'	2:AA:1859:A:C5'	2.61	0.48
2:AA:2004:G:C5	2:AA:2005:A:C4	3.01	0.48
2:AA:2070:G:H2'	2:AA:2071:A:C8	2.48	0.48
2:AA:2082:A:C2	2:AA:2083:G:N9	2.81	0.48
2:AA:2218:G:H4'	4:AD:184:LEU:HD13	1.95	0.48
2:AA:2230:G:O2'	28:A4:40:HIS:O	2.24	0.48
2:AA:2294:C:N3	2:AA:2295:C:C6	2.81	0.48
2:AA:2309:A:H2'	2:AA:2309:A:N3	2.28	0.48
2:AA:2334:G:H1'	16:AQ:21:HIS:CE1	2.47	0.48
2:AA:2396:G:N2	2:AA:2397:G:C5	2.81	0.48
2:AA:2549:G:N1	2:AA:2560:C:C5	2.81	0.48
2:AA:2573:C:OP1	2:AA:2575:C:P	2.70	0.48
2:AA:2606:C:C6	2:AA:2606:C:C3'	2.96	0.48
2:AA:2652:C:H2'	2:AA:2653:U:O4'	2.13	0.48
2:AA:2734:A:N6	5:AE:316:ARG:CZ	2.76	0.48
2:AA:2779:U:O5'	2:AA:2779:U:H6	1.96	0.48
2:AA:2868:A:C4	2:AA:2869:G:C8	3.01	0.48
4:AD:94:ASN:HA	4:AD:100:LYS:HG2	1.94	0.48
4:AD:131:LEU:CD1	4:AD:171:VAL:CG2	2.87	0.48
4:AD:162:GLN:C	4:AD:164:LEU:N	2.71	0.48
5:AE:72:VAL:CG1	5:AE:295:LEU:CD2	2.90	0.48
5:AE:218:GLY:C	5:AE:219:VAL:HG23	2.38	0.48
5:AE:269:ILE:CG2	5:AE:297:LYS:HZ2	2.25	0.48
5:AE:271:ILE:CG2	5:AE:272:GLY:H	2.26	0.48
7:AG:27:ILE:C	7:AG:29:HIS:N	2.67	0.48
7:AG:38:GLU:HG2	7:AG:41:LEU:CD1	2.43	0.48
7:AG:139:TYR:HE1	7:AG:156:ARG:HA	1.76	0.48
8:AH:40:MET:HG2	8:AH:64:HIS:CE1	2.48	0.48
9:AI:23:LYS:CG	9:AJ:46:GLY:HA3	2.33	0.48
9:AI:62:VAL:HG22	9:AI:101:VAL:CG2	2.41	0.48
9:AI:73:VAL:HG21	9:AI:122:GLY:C	2.38	0.48
9:AJ:58:GLU:O	9:AJ:128:LYS:NZ	2.46	0.48
9:AJ:60:ASP:CG	9:AJ:101:VAL:HG11	2.38	0.48
10:AK:111:ASP:OD2	10:AK:112:LYS:CD	2.61	0.48
11:AL:45:GLU:O	11:AL:47:ALA:N	2.46	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:78:LEU:O	11:AL:79:LEU:C	2.55	0.48
11:AL:112:LYS:HG2	11:AL:116:LEU:HB2	1.94	0.48
12:AM:77:GLY:HA2	12:AM:80:LYS:HG2	1.95	0.48
16:AQ:97:VAL:O	16:AQ:98:GLU:CB	2.61	0.48
18:AS:17:VAL:CG1	18:AS:76:VAL:HG21	2.43	0.48
19:AT:34:LYS:O	19:AT:38:ALA:HB3	2.13	0.48
20:AU:77:VAL:CG2	20:AU:91:LEU:HD13	2.44	0.48
21:AV:2:GLU:C	21:AV:54:ILE:HG13	2.38	0.48
21:AV:98:VAL:CB	21:AV:121:GLN:HE22	2.26	0.48
21:AV:103:ARG:NH1	21:AV:139:THR:H	2.11	0.48
22:AW:20:LEU:O	22:AW:23:LEU:HB2	2.12	0.48
23:AX:31:LEU:CD2	23:AX:32:GLN:N	2.43	0.48
24:A0:20:LEU:HD22	24:A0:24:GLN:CG	2.39	0.48
24:A0:90:ARG:HB2	24:A0:94:TYR:HE2	1.72	0.48
25:A1:8:ILE:N	25:A1:11:ARG:HH11	2.11	0.48
25:A1:21:ALA:CA	25:A1:24:PHE:CE2	2.94	0.48
27:A3:2:ALA:C	27:A3:3:HIS:HD1	2.20	0.48
27:A3:26:PHE:N	27:A3:60:PHE:CE1	2.82	0.48
28:A4:38:GLY:O	28:A4:39:VAL:CG2	2.52	0.48
31:A7:38:GLY:C	31:A7:40:HIS:ND1	2.71	0.48
34:BA:44:G:C6	34:BA:45:U:C2	3.01	0.48
34:BA:98:U:C2'	34:BA:99:C:O5'	2.61	0.48
34:BA:109:A:N7	34:BA:326:G:N3	2.61	0.48
34:BA:184:G:H4'	34:BA:224:C:O3'	2.13	0.48
34:BA:192:U:O4'	55:BW:103:GLY:N	2.46	0.48
34:BA:202:U:H4'	34:BA:203:U:OP1	2.13	0.48
34:BA:242:C:N3	34:BA:285:G:N2	2.60	0.48
34:BA:401:C:H2'	34:BA:402:G:H8	1.78	0.48
34:BA:432:A:N7	34:BA:433:C:C6	2.81	0.48
34:BA:459:G:H3'	34:BA:460:A:C5'	2.43	0.48
34:BA:506:G:C6	34:BA:507:C:C4	3.01	0.48
34:BA:511:C:N4	34:BA:541:G:N2	2.61	0.48
34:BA:538:G:OP2	47:BO:115:LYS:HG3	2.12	0.48
34:BA:549:C:C2'	34:BA:550:G:O5'	2.60	0.48
34:BA:656:C:H2'	34:BA:657:G:O4'	2.12	0.48
34:BA:692:U:H5	46:BN:26:ASN:CG	2.22	0.48
34:BA:741:G:C4	34:BA:742:G:C8	3.01	0.48
34:BA:761:G:H1'	52:BT:104:LYS:O	2.13	0.48
34:BA:768:A:H3'	34:BA:768:A:C8	2.48	0.48
34:BA:815:A:H1'	34:BA:1529:G:C6	2.48	0.48
34:BA:828:A:C2'	34:BA:829:G:O5'	2.60	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:877:C:O2'	43:BK:89:PRO:HG2	2.12	0.48
34:BA:889:A:C4'	34:BA:890:G:H4'	2.31	0.48
34:BA:973:G:O5'	34:BA:974:A:H5''	2.13	0.48
34:BA:3(A):G:O5'	34:BA:3(A):G:C8	2.60	0.48
34:BA:1041:A:C6	34:BA:1042:G:N7	2.81	0.48
34:BA:1081:G:OP1	40:BH:17:ALA:O	2.31	0.48
34:BA:1206:G:C4'	38:BF:194:GLY:N	2.77	0.48
34:BA:1298:C:H5''	34:BA:1299:A:OP1	2.12	0.48
34:BA:1324:A:C4'	34:BA:361(A):C:H4'	2.43	0.48
34:BA:1329:A:C5'	48:BP:29:ARG:HG3	2.35	0.48
34:BA:1330:U:H5''	34:BA:1331:G:OP2	2.13	0.48
34:BA:1401:G:C2'	34:BA:1402:C:H5'	2.42	0.48
34:BA:1470:G:H2'	34:BA:1471:G:O5'	2.13	0.48
35:BB:19:G:C1'	35:BB:57:G:N2	2.74	0.48
35:BB:53:G:C2	35:BB:54:U:C2	3.00	0.48
35:BC:8:U:H1'	35:BC:48:C:O2'	2.12	0.48
35:BC:72:C:N4	35:BC:73:A:N6	2.61	0.48
36:B1:26:C:N4	36:B1:27:G:O6	2.46	0.48
37:BE:41:ILE:O	37:BE:42:ILE:O	2.30	0.48
37:BE:102:LEU:CD2	37:BE:173:ALA:HB1	2.37	0.48
37:BE:107:THR:O	37:BE:108:ILE:C	2.54	0.48
37:BE:108:ILE:O	37:BE:112:VAL:CG2	2.48	0.48
37:BE:164:VAL:HG22	37:BE:165:VAL:N	2.27	0.48
39:BG:198:VAL:O	39:BG:199:ASN:CB	2.60	0.48
40:BH:52:PRO:O	40:BH:55:VAL:N	2.47	0.48
41:BI:62:TRP:CE3	41:BI:62:TRP:O	2.66	0.48
41:BI:96:PRO:C	53:BU:32:ARG:HE	2.21	0.48
42:BJ:91:VAL:O	42:BJ:92:SER:C	2.54	0.48
43:BK:28:ALA:HB2	43:BK:58:TYR:CA	2.43	0.48
44:BL:38:GLN:C	44:BL:40:LEU:H	2.19	0.48
44:BL:103:THR:HG22	44:BL:105:ASP:H	1.78	0.48
45:BM:3:LYS:HG2	45:BM:75:ILE:HG12	1.95	0.48
45:BM:34:VAL:CG1	45:BM:36:GLY:H	2.12	0.48
47:BO:84:LEU:O	47:BO:101:VAL:HG23	2.12	0.48
50:BR:53:HIS:HD2	50:BR:56:LEU:HD23	1.77	0.48
51:BS:9:PHE:HD2	51:BS:9:PHE:N	2.10	0.48
53:BU:39:VAL:O	53:BU:42:ARG:CB	2.60	0.48
53:BU:80:PRO:O	53:BU:82:THR:O	2.31	0.48
54:BV:19:VAL:HG23	54:BV:47:HIS:HE2	1.78	0.48
55:BW:21:LYS:O	55:BW:24:LEU:HB2	2.13	0.48
1:AB:27:C:N4	1:AB:28:C:N4	2.62	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:84:C:C2	1:AB:85:G:C8	3.02	0.48
2:AA:67:U:O2	2:AA:88:G:O6	2.30	0.48
2:AA:89:G:C2	2:AA:90:U:O4	2.67	0.48
2:AA:123:G:H2'	2:AA:124:G:O4'	2.11	0.48
2:AA:137(A):G:H3'	2:AA:138:G:N2	2.29	0.48
2:AA:178:G:O5'	2:AA:178:G:H8	1.95	0.48
2:AA:288:C:N4	2:AA:289:A:O2'	2.46	0.48
2:AA:299:A:C5	2:AA:322:A:N6	2.81	0.48
2:AA:311:A:H5''	2:AA:312:G:N7	2.29	0.48
2:AA:331:A:N7	2:AA:1209:G:N2	2.61	0.48
2:AA:403:U:H5''	2:AA:404:C:OP1	2.13	0.48
2:AA:425:G:C2	2:AA:426:C:C6	3.01	0.48
2:AA:511:U:H5''	2:AA:1235:G:H4'	1.95	0.48
2:AA:558:G:P	12:AM:92:GLN:HB3	2.54	0.48
2:AA:783:A:P	4:AD:230:ASN:ND2	2.86	0.48
2:AA:785:G:C2	2:AA:786:C:C6	3.01	0.48
2:AA:791:C:C2'	2:AA:792:G:C5'	2.90	0.48
2:AA:814:C:H4'	2:AA:1224:G:C2	2.48	0.48
2:AA:863:A:N3	2:AA:864:G:C8	2.81	0.48
2:AA:918:A:C2	2:AA:2268:A:N7	2.82	0.48
2:AA:932:G:C5'	23:AX:24:LYS:NZ	2.74	0.48
2:AA:974:G:HO2'	2:AA:974(A):C:C5'	2.19	0.48
2:AA:1000:A:N7	2:AA:1001:A:C5	2.81	0.48
2:AA:1071:G:C2'	2:AA:1072:C:C5'	2.91	0.48
2:AA:1071:G:C5	2:AA:1089:G:C2	3.01	0.48
2:AA:1151:G:H2'	2:AA:1152:C:C6	2.48	0.48
2:AA:1221:C:N3	2:AA:1229:G:C2	2.81	0.48
2:AA:1348:G:C2	2:AA:1599:C:C2	3.00	0.48
2:AA:1475:G:N2	2:AA:1477:A:N7	2.60	0.48
2:AA:1496:A:H2'	2:AA:1496:A:N3	2.26	0.48
2:AA:1501:C:O4'	4:AD:98:GLY:CA	2.61	0.48
2:AA:1605:C:H4'	2:AA:1610:A:N6	2.28	0.48
2:AA:1620:G:C2'	2:AA:1621:U:O5'	2.62	0.48
2:AA:1666:G:H4'	13:AN:67:ARG:NH2	2.28	0.48
2:AA:1792:G:H3'	2:AA:1792:G:C8	2.48	0.48
2:AA:1954:G:HO2'	2:AA:1955:U:C5'	2.23	0.48
2:AA:1969:A:H5''	2:AA:1970:A:OP1	2.12	0.48
2:AA:2014:A:C5	2:AA:2015:A:C6	3.02	0.48
2:AA:2141:G:N2	2:AA:2151:G:C4	2.82	0.48
2:AA:2141:G:H2'	2:AA:2142:C:H6	1.77	0.48
2:AA:2152:G:C5	2:AA:2153:G:N7	2.81	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2319:G:H4'	16:AQ:9:PRO:CD	2.43	0.48
2:AA:2367:G:H2'	2:AA:2368:C:H6	1.78	0.48
2:AA:2423:U:H1'	2:AA:2425:A:C4	2.48	0.48
2:AA:2493:U:C2	2:AA:2494:G:C8	3.02	0.48
2:AA:2504:U:O2'	2:AA:2505:G:H5'	2.12	0.48
2:AA:2531:A:O2'	2:AA:2532:G:H5'	2.14	0.48
2:AA:2635:C:C4	2:AA:2783:G:N1	2.79	0.48
2:AA:2784:C:C2	5:AE:98:GLU:OE1	2.66	0.48
2:AA:2822:G:C5'	5:AE:258:TYR:CZ	2.96	0.48
2:AA:2881:C:H5''	24:A0:90:ARG:HH12	1.78	0.48
2:AA:2887:U:H2'	2:AA:2888:C:O5'	2.14	0.48
3:AC:84:LYS:HA	3:AC:87:GLU:OE1	2.13	0.48
3:AC:156:ILE:O	3:AC:157:LYS:CB	2.59	0.48
4:AD:95:TYR:O	4:AD:96:ALA:O	2.31	0.48
4:AD:179:GLU:C	4:AD:180:VAL:HG22	2.38	0.48
5:AE:221:LYS:CE	5:AE:233:ARG:HA	2.44	0.48
5:AE:304:ASP:O	5:AE:307:LEU:HB2	2.13	0.48
7:AG:24:HIS:ND1	7:AG:24:HIS:N	2.61	0.48
8:AH:58:LYS:HG3	8:AH:59:HIS:ND1	2.28	0.48
8:AH:119:GLY:O	8:AH:121:GLU:CD	2.57	0.48
8:AH:153:PRO:O	8:AH:154:GLU:C	2.55	0.48
10:AK:51:LYS:O	10:AK:52:GLN:C	2.56	0.48
11:AL:132:ALA:CB	11:AL:137:ILE:HB	2.43	0.48
13:AN:3:GLN:HA	13:AN:21:VAL:CG1	2.23	0.48
13:AN:17:ARG:HB2	13:AN:45:ASP:O	2.13	0.48
15:AP:65:ARG:O	15:AP:66:ASN:C	2.56	0.48
15:AP:148:ASN:HD22	15:AP:149:ILE:H	1.61	0.48
16:AQ:59:ALA:CB	16:AQ:91:ARG:HH12	2.26	0.48
20:AU:19:ARG:NH1	20:AU:67:LEU:C	2.71	0.48
21:AV:148:THR:O	21:AV:149:ALA:C	2.56	0.48
21:AV:154:LEU:CD1	21:AV:160:LEU:CD1	2.90	0.48
23:AX:49:LYS:C	23:AX:51:ALA:N	2.68	0.48
24:A0:77:ARG:CB	24:A0:77:ARG:NH1	2.65	0.48
28:A4:11:PRO:HA	28:A4:40:HIS:NE2	2.27	0.48
28:A4:41:PRO:HB2	28:A4:57:ASP:HB3	1.93	0.48
28:A4:60:ASN:O	28:A4:63:PHE:CB	2.61	0.48
31:A7:26:SER:O	31:A7:27:GLY:C	2.56	0.48
34:BA:66:G:H4'	34:BA:173:U:C4	2.49	0.48
34:BA:105:G:C6	34:BA:106:C:N4	2.81	0.48
34:BA:144:G:N1	34:BA:178:C:N4	1.97	0.48
34:BA:332:G:H2'	34:BA:333:G:C8	2.47	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:421:U:N3	38:BF:127:ARG:CZ	2.75	0.48
34:BA:452:A:O2'	34:BA:453:A:O5'	2.30	0.48
34:BA:505:G:C2	34:BA:535:A:C6	3.01	0.48
34:BA:632:A:C2'	34:BA:633:G:O5'	2.62	0.48
34:BA:706:A:O4'	46:BN:29:ILE:CD1	2.62	0.48
34:BA:772:U:H2'	34:BA:773:G:O5'	2.11	0.48
34:BA:813:U:C5'	34:BA:814:A:OP2	2.59	0.48
34:BA:823:G:N1	34:BA:878:G:C6	2.81	0.48
34:BA:935:A:N1	42:BJ:3:ARG:NH1	2.61	0.48
34:BA:959:A:C3'	34:BA:960:U:C5'	2.89	0.48
34:BA:982:U:H3	34:BA:1223:C:N4	2.11	0.48
34:BA:1091:U:O2	34:BA:1093:A:C8	2.66	0.48
34:BA:1117:G:P	44:BL:104:ARG:NH1	2.86	0.48
34:BA:1167:A:C8	34:BA:1167:A:OP1	2.65	0.48
34:BA:1384:C:N3	34:BA:1385:G:C5	2.81	0.48
34:BA:1494:G:N1	34:BA:1495:U:H5	2.11	0.48
34:BA:1536:C:N3	36:B1:53:G:N2	2.62	0.48
35:BB:63:C:H2'	35:BB:64:A:C8	2.49	0.48
35:BC:72:C:C5	35:BC:73:A:N6	2.82	0.48
36:B1:14:U:N3	36:B1:42:G:N1	2.35	0.48
37:BE:77:ALA:HB2	37:BE:208:ILE:HG12	1.94	0.48
37:BE:97:TRP:HE1	37:BE:102:LEU:CD1	2.26	0.48
37:BE:130:ARG:CA	37:BE:130:ARG:HE	2.23	0.48
38:BF:73:PRO:O	38:BF:74:GLY:C	2.54	0.48
38:BF:98:ASN:O	38:BF:99:VAL:HG12	2.13	0.48
38:BF:173:VAL:O	38:BF:174:PRO:C	2.56	0.48
39:BG:3:ARG:NH1	39:BG:70:ILE:HD13	2.28	0.48
40:BH:147:ASP:CA	40:BH:150:ARG:HB2	2.36	0.48
42:BJ:126:ASP:O	42:BJ:131:LYS:O	2.31	0.48
43:BK:42:GLU:CD	43:BK:122:ARG:HH22	2.22	0.48
47:BO:26:ALA:HB2	47:BO:98:TYR:HE2	1.79	0.48
47:BO:64:TYR:C	47:BO:65:GLU:CD	2.81	0.48
49:BQ:53:LEU:O	49:BQ:54:PRO:C	2.57	0.48
50:BR:26:GLU:N	50:BR:26:GLU:OE2	2.45	0.48
50:BR:27:VAL:O	50:BR:28:GLN:C	2.55	0.48
50:BR:29:VAL:CG1	50:BR:81:LEU:HD21	2.40	0.48
51:BS:75:ARG:HG2	51:BS:80:PHE:HB2	1.95	0.48
54:BV:44:MET:HA	54:BV:47:HIS:HD2	1.69	0.48
56:BX:6:ARG:HH11	56:BX:15:ARG:NH2	2.02	0.48
1:AB:101:A:C4	1:AB:102:G:C8	3.01	0.48
2:AA:135:G:H1'	2:AA:145:G:C2	2.49	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:175:G:C6	2:AA:176:G:N7	2.81	0.48
2:AA:200:U:C5	2:AA:201:C:O2	2.66	0.48
2:AA:243:U:P	32:A8:5:LYS:NZ	2.87	0.48
2:AA:255:A:C2	2:AA:256:A:N9	2.81	0.48
2:AA:263:C:C2	2:AA:264:C:C6	3.02	0.48
2:AA:270(I):G:C5	2:AA:270(J):G:C8	3.01	0.48
2:AA:350:U:C2'	2:AA:351:G:OP1	2.60	0.48
2:AA:452:G:H8	6:AF:55:ARG:HH22	1.61	0.48
2:AA:487:C:C4	2:AA:488:G:C5	3.02	0.48
2:AA:524:U:OP1	2:AA:540:G:N2	2.47	0.48
2:AA:569:U:C4	2:AA:570:G:C6	3.02	0.48
2:AA:687:C:C5'	31:A7:4:THR:HG22	2.43	0.48
2:AA:777:A:HO2'	2:AA:778:G:H5'	1.75	0.48
2:AA:784:A:N7	2:AA:792:G:C4	2.81	0.48
2:AA:819:A:H2'	2:AA:820:A:H8	1.79	0.48
2:AA:820:A:H1'	2:AA:943:U:C2	2.48	0.48
2:AA:839:U:O2	2:AA:940:G:C2	2.66	0.48
2:AA:840:C:H42	2:AA:938:G:H1	1.59	0.48
2:AA:1001:A:C8	2:AA:1002:G:C8	3.02	0.48
2:AA:1009:A:O2'	25:A1:62:ILE:HG21	2.13	0.48
2:AA:1014:U:N3	2:AA:1015:G:C8	2.81	0.48
2:AA:1034:G:H5'	33:A9:18:ARG:CD	2.43	0.48
2:AA:1087:G:O6	2:AA:1102:C:N3	2.47	0.48
2:AA:1238:G:H2'	2:AA:1239:G:C4'	2.43	0.48
2:AA:1268:A:OP1	2:AA:2006:C:OP1	2.31	0.48
2:AA:1277:G:H2'	2:AA:1278:A:H8	1.78	0.48
2:AA:1279:G:H2'	2:AA:1280:G:H8	1.79	0.48
2:AA:1419:A:H3'	2:AA:1420:U:C2	2.48	0.48
2:AA:1465:G:N2	2:AA:1466:G:H1'	2.28	0.48
2:AA:1551:C:C2'	2:AA:1552:G:H8	2.24	0.48
2:AA:1570:A:N3	2:AA:1571:A:N7	2.60	0.48
2:AA:1698:A:O2'	2:AA:1699:G:C3'	2.47	0.48
2:AA:1806:C:C2	2:AA:1807:G:H8	2.31	0.48
2:AA:1856:G:C6	2:AA:1887:C:C4	3.01	0.48
2:AA:1889:A:C1'	2:AA:2087:G:O4'	2.62	0.48
2:AA:2075:U:H2'	2:AA:2075:U:O2	2.13	0.48
2:AA:2075:U:O4	2:AA:2435:A:N1	2.46	0.48
2:AA:2075:U:C4	2:AA:2238:G:C6	3.02	0.48
2:AA:2101:G:N1	2:AA:2189:U:N3	2.61	0.48
2:AA:2128:C:N4	3:AC:134:ARG:HH21	2.11	0.48
2:AA:2142:C:N3	2:AA:2143:C:C4	2.82	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2293:C:N3	2:AA:2339:G:O6	2.47	0.48
2:AA:2316:C:H5'	7:AG:142:ALA:CB	2.40	0.48
2:AA:2378:A:C8	2:AA:2378:A:O5'	2.63	0.48
2:AA:2468:G:C8	2:AA:2468:G:OP2	2.66	0.48
2:AA:2513:G:H1	2:AA:2571:C:N4	2.11	0.48
2:AA:2595:G:C6	2:AA:2597:G:OP1	2.67	0.48
2:AA:2633:G:C2'	2:AA:2634:G:O5'	2.62	0.48
2:AA:2675:A:OP1	13:AN:30:ARG:HA	2.14	0.48
2:AA:2682:U:C2'	2:AA:2683:C:H5'	2.43	0.48
2:AA:2726:U:H3'	2:AA:2727:G:H8	1.77	0.48
2:AA:2812:G:H2'	2:AA:2813:A:C8	2.48	0.48
2:AA:2855:C:N3	2:AA:2862:G:N2	2.50	0.48
2:AA:2876:G:C2	2:AA:2877:G:N7	2.81	0.48
2:AA:2881:C:C5	2:AA:2882:A:N7	2.82	0.48
3:AC:75:LEU:HD21	3:AC:99:ILE:CG2	2.42	0.48
3:AC:133:PRO:CG	3:AC:134:ARG:HH11	2.26	0.48
5:AE:44:TYR:CB	5:AE:74:GLU:OE1	2.61	0.48
5:AE:226:HIS:CG	5:AE:229:GLN:NE2	2.82	0.48
6:AF:30:LEU:O	6:AF:31:ILE:C	2.56	0.48
6:AF:81:PRO:O	6:AF:82:GLN:CB	2.62	0.48
8:AH:15:THR:HG23	8:AH:26:LYS:H	1.78	0.48
8:AH:170:LEU:CD1	8:AH:170:LEU:O	2.61	0.48
9:AJ:6:ILE:O	9:AJ:10:ILE:HG13	2.13	0.48
9:AJ:77:VAL:HG13	9:AJ:102:ILE:CD1	2.44	0.48
11:AL:123:ALA:O	11:AL:127:ILE:HG13	2.14	0.48
12:AM:104:TYR:O	12:AM:105:LEU:O	2.31	0.48
15:AP:59:ASN:O	15:AP:62:GLU:N	2.46	0.48
15:AP:82:LYS:HD2	15:AP:125:TRP:HB3	1.95	0.48
15:AP:94:ARG:HG2	15:AP:107:LYS:C	2.32	0.48
16:AQ:72:GLU:O	16:AQ:74:PRO:C	2.56	0.48
16:AQ:117:ALA:HA	16:AQ:120:GLU:OE1	2.13	0.48
18:AS:30:GLU:HG2	18:AS:31:GLU:N	2.24	0.48
18:AS:85:VAL:CA	18:AS:95:ILE:HG12	2.39	0.48
18:AS:96:ILE:HD12	18:AS:96:ILE:O	2.12	0.48
19:AT:23:LYS:CB	19:AT:67:ARG:HA	2.42	0.48
20:AU:27:LEU:HD23	20:AU:98:VAL:CG1	2.44	0.48
20:AU:49:GLU:HB3	20:AU:97:ARG:CD	2.38	0.48
20:AU:91:LEU:HD23	20:AU:91:LEU:N	2.27	0.48
24:A0:37:THR:OG1	24:A0:40:LYS:HD2	2.13	0.48
24:A0:65:LEU:O	24:A0:68:ARG:N	2.47	0.48
24:A0:67:LEU:O	24:A0:68:ARG:C	2.56	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:38:LEU:N	26:A2:38:LEU:CD2	2.68	0.48
26:A2:62:GLU:C	26:A2:95:ILE:CG2	2.86	0.48
26:A2:69:ILE:HG22	26:A2:88:GLN:HB3	1.95	0.48
27:A3:16:SER:O	27:A3:17:ASN:CG	2.56	0.48
28:A4:5:LEU:HD11	28:A4:10:VAL:HG23	1.95	0.48
29:A5:10:LYS:CA	29:A5:10:LYS:NZ	2.58	0.48
34:BA:66:G:H5'	34:BA:173:U:O4	2.13	0.48
34:BA:73:C:N3	34:BA:74:C:C4	2.81	0.48
34:BA:91:C:O2'	34:BA:92:C:C5'	2.61	0.48
34:BA:126:G:H1	34:BA:235:C:H42	1.62	0.48
34:BA:183:G:O2'	34:BA:224:C:H1'	2.13	0.48
34:BA:185:A:N6	34:BA:186:C:N4	2.61	0.48
34:BA:190(E):U:C2	52:BT:72:ARG:NH2	2.78	0.48
34:BA:196:A:H1'	34:BA:222:U:H1'	1.95	0.48
34:BA:226:G:C2	34:BA:227:G:N9	2.82	0.48
34:BA:228:A:H2'	34:BA:229:U:C5'	2.43	0.48
34:BA:245:C:O2	34:BA:284:G:C5	2.66	0.48
34:BA:390:C:H2'	34:BA:391:G:O5'	2.13	0.48
34:BA:597:G:C5	34:BA:644:G:N1	2.81	0.48
34:BA:707:C:C4'	46:BN:20:TYR:CD2	2.96	0.48
34:BA:712:A:C2	34:BA:713:G:C4	3.02	0.48
34:BA:762:C:N3	34:BA:763:G:C6	2.82	0.48
34:BA:938:A:C6	34:BA:939:G:C5	3.01	0.48
34:BA:1026:G:N1	34:BA:1036:G:C2	2.81	0.48
34:BA:1082:G:C6	34:BA:1083:U:C4	3.01	0.48
34:BA:1122:U:O4	34:BA:1123:A:N6	2.46	0.48
34:BA:1132:C:O2'	34:BA:1133:G:H5'	2.12	0.48
34:BA:1253:G:H21	34:BA:1254:C:H1'	1.78	0.48
34:BA:1253:G:N2	34:BA:1254:C:C2	2.81	0.48
34:BA:1461:G:C2'	34:BA:1462:G:O5'	2.61	0.48
34:BA:1503:A:C4	36:B1:57:A:N1	2.82	0.48
35:BB:66:A:C5'	35:BB:67:A:OP2	2.60	0.48
36:B1:15:A:N6	36:B1:41:U:N3	2.61	0.48
37:BE:15:VAL:HG11	37:BE:209:ARG:HG3	1.94	0.48
37:BE:25:ASN:O	37:BE:26:PRO:C	2.57	0.48
37:BE:118:LEU:C	37:BE:120:ALA:N	2.71	0.48
37:BE:164:VAL:O	37:BE:186:ALA:CB	2.58	0.48
38:BF:39:ILE:HG21	38:BF:57:ILE:HD13	1.95	0.48
38:BF:42:LEU:HD12	38:BF:94:LEU:CD1	2.38	0.48
38:BF:142:MET:CA	38:BF:146:ALA:HB3	2.33	0.48
39:BG:19:LEU:CD2	39:BG:21:LEU:HD11	2.40	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:59:ARG:HA	39:BG:59:ARG:NE	2.18	0.48
40:BH:50:GLU:HB2	40:BH:53:LEU:HG	1.95	0.48
40:BH:81:GLU:CA	40:BH:89:ILE:O	2.50	0.48
43:BK:9:MET:C	43:BK:11:THR:N	2.68	0.48
44:BL:5:TYR:CE2	44:BL:18:PHE:CE1	3.01	0.48
45:BM:63:PHE:C	49:BQ:59:ALA:HB2	2.39	0.48
47:BO:53:ARG:NH1	47:BO:92:ASP:OD2	2.45	0.48
47:BO:72:GLY:O	47:BO:74:GLY:N	2.46	0.48
48:BP:19:LEU:O	48:BP:22:ILE:HG13	2.13	0.48
51:BS:4:ILE:CG1	51:BS:66:PRO:HA	2.43	0.48
56:BX:3:LYS:HD3	56:BX:14:TRP:HD1	1.77	0.48
1:AB:71:C:O2	1:AB:72:G:H1'	2.14	0.48
2:AA:26:G:N1	2:AA:27:G:C2	2.79	0.48
2:AA:46:C:N3	2:AA:179:G:O6	2.45	0.48
2:AA:48:G:O5'	2:AA:48:G:C8	2.61	0.48
2:AA:88:G:N3	2:AA:88:G:C2'	2.76	0.48
2:AA:203:C:OP2	2:AA:203:C:C5	2.67	0.48
2:AA:253:C:O2'	2:AA:254:G:H5'	2.13	0.48
2:AA:290:G:C6	2:AA:350:U:C4	3.01	0.48
2:AA:350:U:C6	2:AA:350:U:OP2	2.66	0.48
2:AA:447:A:O2'	2:AA:448:U:H5'	2.13	0.48
2:AA:483:A:C2	2:AA:484:C:H1'	2.48	0.48
2:AA:751:A:C2	2:AA:789:A:C6	3.01	0.48
2:AA:818:G:O4'	2:AA:839:U:OP1	2.32	0.48
2:AA:820:A:H2	2:AA:944:G:OP1	1.97	0.48
2:AA:824:A:N1	2:AA:834:C:C2	2.81	0.48
2:AA:826:U:C5'	2:AA:2429:G:P	2.97	0.48
2:AA:1009:A:C6	2:AA:1010:A:C6	3.01	0.48
2:AA:1029:A:H2'	2:AA:1030:G:O4'	2.13	0.48
2:AA:1063:G:C2	2:AA:1075:C:C4	3.02	0.48
2:AA:1131:G:N2	2:AA:1132:A:C5	2.81	0.48
2:AA:1131:G:N1	12:AM:69:TYR:CE1	2.81	0.48
2:AA:1247:A:O2'	2:AA:1248:G:P	2.71	0.48
2:AA:1252:G:N2	25:A1:37:GLN:HB2	2.28	0.48
2:AA:1264:G:C3'	2:AA:1265:A:C5'	2.78	0.48
2:AA:1266:G:C5	18:AS:16:LYS:HE3	2.48	0.48
2:AA:1414:G:C2'	2:AA:1415:U:C6	2.90	0.48
2:AA:1473:G:C2'	2:AA:1474:C:H6	2.24	0.48
2:AA:1604:C:O2	2:AA:1605:C:C6	2.66	0.48
2:AA:1626:G:H2'	2:AA:1626:G:N3	2.28	0.48
2:AA:1636:C:O2'	2:AA:1760:A:O2'	2.22	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1735:C:O2'	2:AA:1741:C:H6	1.96	0.48
2:AA:1773:A:C8	2:AA:1773:A:C3'	2.96	0.48
2:AA:2056:G:N2	2:AA:2057:A:N9	2.61	0.48
2:AA:2121:G:OP2	2:AA:2121:G:H3'	2.12	0.48
2:AA:2207:C:C2	2:AA:2208:U:C6	3.01	0.48
2:AA:2210:G:N7	4:AD:148:GLY:O	2.47	0.48
2:AA:2283:C:N3	2:AA:2325:G:N2	2.56	0.48
2:AA:2309:A:OP2	2:AA:2309:A:C4'	2.60	0.48
2:AA:2462:U:N3	2:AA:2463:C:C4	2.82	0.48
2:AA:2462:U:O2'	2:AA:2463:C:H5'	2.14	0.48
2:AA:2493:U:O2	2:AA:2494:G:O4'	2.32	0.48
2:AA:2595:G:N2	2:AA:2597:G:C5'	2.76	0.48
2:AA:2634:G:C2'	2:AA:2635:C:O5'	2.61	0.48
2:AA:2661:G:H8	2:AA:2661:G:O5'	1.96	0.48
2:AA:2735:G:H1	2:AA:2769:C:H42	1.62	0.48
2:AA:2756:U:HO2'	2:AA:2757:A:C5'	2.25	0.48
2:AA:2854:G:C6	2:AA:2855:C:C4	3.01	0.48
3:AC:82:LYS:NZ	3:AC:147:PHE:O	2.47	0.48
3:AC:86:ALA:O	3:AC:87:GLU:O	2.30	0.48
3:AC:103:ILE:CD1	3:AC:110:PHE:HE2	2.25	0.48
5:AE:180:ILE:CG2	5:AE:186:GLU:O	2.62	0.48
5:AE:201:VAL:H	5:AE:266:LYS:HZ2	1.55	0.48
5:AE:267:ARG:CD	5:AE:297:LYS:HD2	2.43	0.48
5:AE:268:LEU:HD21	5:AE:270:ASP:O	2.13	0.48
6:AF:162:VAL:N	6:AF:165:ASP:CG	2.71	0.48
6:AF:236:THR:O	6:AF:239:ALA:N	2.46	0.48
6:AF:243:VAL:O	6:AF:244:ALA:C	2.55	0.48
7:AG:37:ALA:O	7:AG:40:ILE:HB	2.14	0.48
7:AG:87:ALA:O	7:AG:88:LEU:C	2.54	0.48
7:AG:142:ALA:HB2	7:AG:151:ILE:HG12	1.95	0.48
8:AH:17:THR:CG2	8:AH:19:ASN:OD1	2.61	0.48
8:AH:107:GLY:C	8:AH:109:SER:H	2.20	0.48
8:AH:121:GLU:CG	8:AH:133:LYS:O	2.58	0.48
9:AJ:26:GLU:C	9:AJ:28:LYS:N	2.71	0.48
9:AJ:102:ILE:HD13	9:AJ:118:LEU:CD1	2.43	0.48
10:AK:7:LYS:CE	10:AK:12:LYS:HZ3	2.07	0.48
10:AK:25:TYR:HB3	10:AK:29:PHE:CZ	2.48	0.48
10:AK:88:ARG:HB3	10:AK:122:ARG:HD3	1.95	0.48
11:AL:103:LYS:O	11:AL:104:GLN:C	2.55	0.48
11:AL:105:ILE:HD13	11:AL:139:VAL:HG12	1.94	0.48
12:AM:6:PHE:CE1	12:AM:109:TYR:CZ	3.01	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:7:ASP:O	12:AM:8:ALA:HB2	2.13	0.48
12:AM:74:ARG:HG2	12:AM:74:ARG:HH11	1.78	0.48
13:AN:1:MET:CB	13:AN:67:ARG:HD2	2.42	0.48
14:AO:66:VAL:N	14:AO:108:VAL:HG13	2.28	0.48
14:AO:75:LEU:C	14:AO:77:ALA:N	2.71	0.48
14:AO:132:LYS:O	14:AO:133:VAL:C	2.54	0.48
15:AP:22:GLY:O	15:AP:23:ILE:CG1	2.61	0.48
15:AP:52:LYS:O	15:AP:117:GLY:HA2	2.13	0.48
15:AP:63:ALA:C	15:AP:70:ARG:HH22	2.21	0.48
15:AP:148:ASN:HD22	15:AP:149:ILE:N	2.11	0.48
17:AR:35:LYS:O	17:AR:36:CYS:C	2.54	0.48
18:AS:5:ALA:CB	18:AS:50:VAL:HG12	2.44	0.48
20:AU:30:ASP:OD2	20:AU:31:LEU:CD2	2.62	0.48
20:AU:48:VAL:HG22	20:AU:98:VAL:HG22	1.96	0.48
20:AU:71:VAL:HG22	20:AU:93:THR:N	2.17	0.48
20:AU:72:ILE:CG2	20:AU:73:HIS:H	2.26	0.48
21:AV:20:ALA:HB1	21:AV:32:PHE:CD2	2.49	0.48
21:AV:116:VAL:O	21:AV:118:HIS:N	2.46	0.48
22:AW:57:LYS:O	22:AW:58:THR:C	2.56	0.48
25:A1:21:ALA:CB	25:A1:24:PHE:HZ	2.18	0.48
25:A1:65:ILE:O	25:A1:66:ASN:C	2.56	0.48
27:A3:68:VAL:HG21	27:A3:72:LYS:HG3	1.96	0.48
28:A4:50:LEU:C	28:A4:51:ASP:CG	2.82	0.48
28:A4:56:VAL:O	28:A4:61:LYS:CE	2.50	0.48
28:A4:59:PHE:O	28:A4:61:LYS:N	2.45	0.48
31:A7:20:ALA:O	31:A7:23:LYS:CB	2.60	0.48
32:A8:50:LEU:O	32:A8:52:LYS:N	2.47	0.48
33:A9:3:VAL:C	33:A9:5:SER:H	2.22	0.48
34:BA:115:G:H1'	34:BA:116:A:N7	2.28	0.48
34:BA:270:A:C6	34:BA:271:C:N4	2.81	0.48
34:BA:292:G:H1	34:BA:308:C:H42	0.50	0.48
34:BA:293:G:H2'	34:BA:293:G:N3	2.27	0.48
34:BA:407:G:C4	34:BA:408:A:C8	3.02	0.48
34:BA:410:G:N2	34:BA:429:U:N3	2.60	0.48
34:BA:442:C:H2'	34:BA:443:C:H5'	1.95	0.48
34:BA:491:G:C2'	34:BA:492:G:H5'	2.42	0.48
34:BA:511:C:O2'	34:BA:512:U:O5'	2.31	0.48
34:BA:636:U:O2'	34:BA:637:G:H5'	2.13	0.48
34:BA:820:U:O2	34:BA:820:U:C2'	2.61	0.48
34:BA:861:G:H2'	34:BA:862:C:C6	2.48	0.48
34:BA:874:G:N3	34:BA:874:G:H2'	2.28	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:937:A:H2	34:BA:1377:A:H1'	1.78	0.48
34:BA:1256:A:H8	38:BF:27:LYS:NZ	2.09	0.48
34:BA:1308:U:P	48:BP:99:ARG:HH11	2.36	0.48
34:BA:1346:A:C2	42:BJ:10:ARG:CD	2.96	0.48
34:BA:1384:C:H2'	34:BA:1385:G:C8	2.48	0.48
34:BA:1501:C:O5'	34:BA:1501:C:H6	1.96	0.48
35:BB:53:G:C2	35:BB:54:U:C6	3.01	0.48
35:BC:57:G:H3'	35:BC:57:G:H8	1.79	0.48
37:BE:15:VAL:HG11	37:BE:209:ARG:CG	2.44	0.48
37:BE:74:LYS:HE2	37:BE:76:GLN:HG3	1.96	0.48
38:BF:156:ARG:O	38:BF:193:TYR:CE1	2.63	0.48
38:BF:190:ARG:NH1	38:BF:190:ARG:CB	2.72	0.48
39:BG:75:PHE:CE1	39:BG:93:PHE:HZ	2.30	0.48
39:BG:101:LEU:O	39:BG:104:VAL:HB	2.13	0.48
41:BI:6:VAL:CG2	41:BI:8:ILE:HG13	2.43	0.48
42:BJ:62:PHE:HA	42:BJ:124:LEU:HD22	1.95	0.48
43:BK:104:ARG:O	43:BK:106:GLY:N	2.46	0.48
43:BK:112:LEU:HA	43:BK:134:ILE:HG13	1.95	0.48
44:BL:10:ARG:N	44:BL:104:ARG:HE	2.12	0.48
44:BL:12:GLU:N	44:BL:12:GLU:CD	2.71	0.48
44:BL:74:ILE:CA	44:BL:77:ILE:HD12	2.29	0.48
46:BN:23:ALA:CB	46:BN:88:GLY:HA3	2.44	0.48
46:BN:60:ALA:O	46:BN:62:GLN:N	2.47	0.48
47:BO:36:VAL:N	47:BO:58:VAL:HG13	2.29	0.48
47:BO:73:GLU:OE2	47:BO:73:GLU:HA	2.12	0.48
47:BO:76:ASN:ND2	47:BO:77:LEU:H	2.11	0.48
49:BQ:15:LYS:O	49:BQ:16:PHE:CD2	2.67	0.48
50:BR:81:LEU:C	50:BR:81:LEU:CD2	2.85	0.48
52:BT:43:LEU:HD23	52:BT:44:ALA:H	1.77	0.48
52:BT:50:LYS:O	52:BT:52:LYS:HG3	2.14	0.48
53:BU:55:ARG:NH1	53:BU:55:ARG:O	2.47	0.48
54:BV:41:VAL:O	54:BV:42:PRO:C	2.55	0.48
55:BW:74:LYS:C	55:BW:76:ALA:N	2.68	0.48
1:AB:58:A:O2'	7:AG:140:ARG:NE	2.46	0.48
2:AA:67:U:N3	2:AA:68:G:N7	2.61	0.48
2:AA:72:U:C5	2:AA:112:U:O2'	2.62	0.48
2:AA:128:C:C4	2:AA:129:C:N4	2.82	0.48
2:AA:364:C:C2'	2:AA:365:C:C5	2.87	0.48
2:AA:378:C:O2	2:AA:397:G:C2	2.67	0.48
2:AA:416:C:H2'	2:AA:417:C:O5'	2.14	0.48
2:AA:458:G:OP1	31:A7:39:ARG:NE	2.46	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:483:A:H1'	20:AU:83:ASP:HA	1.95	0.48
2:AA:630:G:H1	2:AA:634:C:N4	2.11	0.48
2:AA:744:G:O2'	2:AA:745:G:C5'	2.61	0.48
2:AA:747:U:O2	2:AA:2015:A:C2	2.64	0.48
2:AA:791:C:N3	2:AA:794:G:C5'	2.73	0.48
2:AA:818:G:C2'	2:AA:819:A:H5''	2.43	0.48
2:AA:874:G:C2	2:AA:904:C:N4	2.81	0.48
2:AA:876:C:N4	2:AA:877:U:N3	2.61	0.48
2:AA:888:C:H1'	2:AA:890:A:C2	2.49	0.48
2:AA:911:A:C1'	2:AA:2264:C:H1'	2.44	0.48
2:AA:990:A:N1	2:AA:1186:G:H1'	2.27	0.48
2:AA:1024:G:OP2	2:AA:1025:G:C2	2.67	0.48
2:AA:1084:A:C1'	9:AI:25:LEU:HB3	2.43	0.48
2:AA:1166:C:N3	2:AA:1184:G:N1	2.61	0.48
2:AA:1202:C:N4	2:AA:1241:A:N3	2.59	0.48
2:AA:1299:G:H5'	2:AA:1301:A:H1'	1.95	0.48
2:AA:1321:A:N3	2:AA:1321:A:H2'	2.29	0.48
2:AA:1482:U:C2'	2:AA:1512:G:N2	2.76	0.48
2:AA:1582:C:C3'	2:AA:1583:A:C4'	2.90	0.48
2:AA:1854:A:H1'	2:AA:2087:G:H21	1.78	0.48
2:AA:1879:C:C2	2:AA:1880:C:C5	3.01	0.48
2:AA:1924:C:C2	2:AA:1925:C:C6	3.01	0.48
2:AA:2013:A:H3'	2:AA:2013:A:H8	1.78	0.48
2:AA:2052:G:C4	2:AA:2053:G:N7	2.81	0.48
2:AA:2085:C:C2	2:AA:2086:U:C6	3.01	0.48
2:AA:2102:U:C4	2:AA:2103:C:N4	2.81	0.48
2:AA:2118:U:H2'	2:AA:2119:A:C4'	2.42	0.48
2:AA:2185:C:C2	2:AA:2186:G:C8	3.02	0.48
2:AA:2335:A:C8	2:AA:2337:G:C5	3.01	0.48
2:AA:2339:G:C2	2:AA:2340:G:C4	3.02	0.48
2:AA:2417:C:C2'	2:AA:2418:A:H5'	2.43	0.48
2:AA:2469:A:C8	2:AA:2469:A:C4'	2.97	0.48
2:AA:2488:A:C5	2:AA:2489:G:N7	2.82	0.48
2:AA:2511:U:O2'	2:AA:2512:C:H5'	2.14	0.48
2:AA:2621:A:C5	2:AA:2622:C:C5	3.02	0.48
2:AA:2737:G:H1	2:AA:2768:C:N4	2.11	0.48
2:AA:2768:C:C2'	2:AA:2769:C:O5'	2.61	0.48
2:AA:2884:U:O4	29:A5:43:HIS:HA	2.13	0.48
3:AC:28:LEU:CA	3:AC:31:GLU:CD	2.79	0.48
3:AC:44:HIS:ND1	3:AC:172:HIS:CB	2.76	0.48
4:AD:140:VAL:HG12	4:AD:141:HIS:O	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:169:LYS:NZ	4:AD:169:LYS:CB	2.76	0.48
8:AH:34:ARG:NH1	8:AH:74:MET:HG2	2.29	0.48
8:AH:168:VAL:C	8:AH:169:ARG:HG2	2.38	0.48
9:AJ:29:PHE:O	9:AJ:33:ALA:HB3	2.13	0.48
9:AJ:64:LYS:HE2	9:AJ:125:VAL:C	2.38	0.48
10:AK:31:PHE:N	10:AK:31:PHE:CD1	2.81	0.48
12:AM:83:ILE:C	12:AM:87:LEU:HD12	2.38	0.48
13:AN:11:ALA:CB	13:AN:99:PHE:CB	2.91	0.48
15:AP:16:ARG:HD3	15:AP:19:TYR:CG	2.49	0.48
16:AQ:10:MET:O	16:AQ:11:ARG:C	2.57	0.48
16:AQ:21:HIS:C	16:AQ:23:ARG:H	2.21	0.48
16:AQ:49:THR:O	16:AQ:52:PRO:C	2.56	0.48
18:AS:41:LYS:H	18:AS:41:LYS:CD	2.26	0.48
19:AT:36:GLU:O	19:AT:39:ASP:HB2	2.14	0.48
20:AU:105:ASP:O	20:AU:108:ARG:N	2.46	0.48
21:AV:3:LEU:CB	21:AV:34:LEU:HB3	2.28	0.48
24:A0:105:ARG:N	24:A0:105:ARG:NE	2.62	0.48
25:A1:103:PRO:C	25:A1:107:LYS:HG2	2.38	0.48
26:A2:88:GLN:O	26:A2:89:ASN:CG	2.56	0.48
27:A3:23:VAL:O	27:A3:26:PHE:CD1	2.66	0.48
30:A6:21:TYR:CZ	30:A6:43:VAL:N	2.82	0.48
30:A6:21:TYR:O	30:A6:22:TYR:CG	2.66	0.48
31:A7:10:ARG:O	31:A7:14:LYS:CG	2.58	0.48
31:A7:21:ARG:HH22	31:A7:43:THR:N	2.12	0.48
34:BA:12:U:H5'	34:BA:526:C:O2'	2.14	0.48
34:BA:228:A:HO2'	34:BA:229:U:H5'	1.75	0.48
34:BA:283:C:C4	34:BA:284:G:N7	2.82	0.48
34:BA:319:G:H4'	34:BA:1468:A:H4'	1.95	0.48
34:BA:363:A:N1	34:BA:364:A:N3	2.61	0.48
34:BA:533:A:C6	34:BA:536:C:C4	3.01	0.48
34:BA:593:G:H2'	34:BA:594:G:H5'	1.95	0.48
34:BA:609:A:C2'	34:BA:610:G:O5'	2.61	0.48
34:BA:622:A:H3'	34:BA:623:C:C5	2.48	0.48
34:BA:718:G:N7	34:BA:719:C:C4	2.81	0.48
34:BA:773:G:N1	34:BA:774:G:C5	2.82	0.48
34:BA:867:G:H2'	34:BA:868:C:H6	1.77	0.48
34:BA:931:C:N3	34:BA:1387:G:N1	2.61	0.48
34:BA:995:C:O2'	49:BQ:4:LYS:CE	2.62	0.48
34:BA:1044:A:H2'	34:BA:1045:C:H5'	1.92	0.48
34:BA:1182:G:H5'	34:BA:1184:G:C5'	2.43	0.48
34:BA:1237:C:H3'	34:BA:1238:A:H5'	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:8:U:O4'	35:BB:48:C:O2'	2.28	0.48
35:BB:64:A:C5	35:BB:65:G:N7	2.81	0.48
35:BB:74:C:C2	35:BB:75:C:O4'	2.66	0.48
35:BC:26:G:C5	35:BC:27:C:C5	3.02	0.48
35:BC:55:U:H2'	35:BC:57:G:N7	2.28	0.48
37:BE:44:LEU:O	37:BE:45:GLN:C	2.55	0.48
38:BF:60:ALA:CB	45:BM:92:THR:OG1	2.62	0.48
38:BF:155:GLY:O	38:BF:156:ARG:CB	2.62	0.48
38:BF:185:GLY:O	38:BF:199:LYS:HA	2.14	0.48
39:BG:88:VAL:O	39:BG:89:THR:C	2.55	0.48
39:BG:107:ARG:HB3	39:BG:174:LEU:HD11	1.95	0.48
39:BG:120:LEU:HG	39:BG:125:HIS:CB	2.42	0.48
39:BG:167:GLY:O	39:BG:168:ARG:O	2.31	0.48
40:BH:48:ALA:HB3	40:BH:54:ALA:HB2	1.96	0.48
41:BI:25:ILE:O	41:BI:26:ILE:C	2.55	0.48
43:BK:82:HIS:NE2	43:BK:84:ARG:HD2	2.27	0.48
43:BK:98:LYS:C	43:BK:98:LYS:HZ3	2.20	0.48
43:BK:103:VAL:CB	43:BK:108:GLY:C	2.85	0.48
44:BL:10:ARG:CA	44:BL:104:ARG:NE	2.56	0.48
46:BN:53:SER:O	46:BN:54:ARG:C	2.57	0.48
46:BN:58:PRO:HB3	46:BN:90:GLY:HA2	1.95	0.48
47:BO:110:VAL:HG12	47:BO:111:LYS:O	2.14	0.48
49:BQ:36:PHE:CD1	49:BQ:37:PHE:N	2.81	0.48
50:BR:29:VAL:CG1	50:BR:85:LEU:HD11	2.42	0.48
50:BR:33:THR:HG21	50:BR:87:ILE:HD11	1.96	0.48
51:BS:21:VAL:CG2	51:BS:34:GLU:HB3	2.43	0.48
53:BU:69:THR:O	53:BU:72:ARG:N	2.47	0.48
54:BV:25:LYS:O	54:BV:27:GLU:N	2.44	0.48
54:BV:36:ARG:HH21	54:BV:72:GLY:HA2	1.79	0.48
55:BW:79:ARG:CA	55:BW:82:SER:HB3	2.38	0.48
1:AB:8:U:O2'	1:AB:9:G:H8	1.96	0.48
1:AB:90:C:C2'	1:AB:91:C:O5'	2.61	0.48
2:AA:72:U:H2'	2:AA:73:A:OP1	2.14	0.48
2:AA:81:G:N1	2:AA:106:C:C4	2.82	0.48
2:AA:85:G:O2'	2:AA:103:A:H2	1.96	0.48
2:AA:99:U:H4'	2:AA:102:G:OP1	2.14	0.48
2:AA:118:A:O5'	2:AA:119:A:H8	1.96	0.48
2:AA:163:U:C6	2:AA:163:U:OP2	2.66	0.48
2:AA:247:G:N2	32:A8:8:LYS:NZ	2.59	0.48
2:AA:270(Q):C:C6	2:AA:270(R):G:C8	3.01	0.48
2:AA:322:A:N3	2:AA:341:G:C4	2.82	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:388:G:C1'	2:AA:390:A:N6	2.75	0.48
2:AA:451:C:H41	2:AA:453:C:H3'	1.77	0.48
2:AA:473:G:H2'	2:AA:474:G:C5'	2.43	0.48
2:AA:547:A:C2'	2:AA:547:A:N3	2.76	0.48
2:AA:723:G:O2'	2:AA:724:U:O4'	2.30	0.48
2:AA:763:G:C8	2:AA:765:G:C8	3.00	0.48
2:AA:843:G:H2'	2:AA:844:C:C6	2.48	0.48
2:AA:866:A:N6	2:AA:914:C:C6	2.82	0.48
2:AA:878:A:C2	2:AA:879:G:C8	3.01	0.48
2:AA:886:C:H2'	2:AA:886:C:O2	2.13	0.48
2:AA:931:G:OP1	23:AX:27:GLY:HA3	2.14	0.48
2:AA:1013:C:C2	2:AA:1014:U:C6	3.02	0.48
2:AA:1082:U:C5	2:AA:1083:U:C5	3.02	0.48
2:AA:1114:G:N2	2:AA:1115:G:N9	2.62	0.48
2:AA:1133:U:O2'	2:AA:1134:G:C5'	2.60	0.48
2:AA:1196:C:C2	2:AA:1197:G:C8	3.01	0.48
2:AA:1208:C:N4	2:AA:1240:U:O4	2.47	0.48
2:AA:1287:A:C5	2:AA:1649:G:H1'	2.48	0.48
2:AA:1315:C:C2	2:AA:1316:U:C6	3.02	0.48
2:AA:1379:A:H62	31:A7:10:ARG:NH2	2.12	0.48
2:AA:1421:G:C6	2:AA:1577:C:N3	2.82	0.48
2:AA:1426:G:H3'	2:AA:1427:A:C8	2.47	0.48
2:AA:1520:U:OP2	2:AA:1520:U:C6	2.66	0.48
2:AA:1535:U:C5'	2:AA:1536:A:O5'	2.53	0.48
2:AA:1549:C:H2'	2:AA:1550:C:H5'	1.94	0.48
2:AA:1608:A:C6	2:AA:1611:C:C2	3.01	0.48
2:AA:1672:C:H5	2:AA:1673:U:C6	2.31	0.48
2:AA:1709:U:C2'	2:AA:1710:C:O5'	2.62	0.48
2:AA:1827:C:N3	2:AA:1828:G:C1'	2.76	0.48
2:AA:1839:G:O6	2:AA:1927:A:C2	2.66	0.48
2:AA:1848:A:N7	2:AA:1849:G:N7	2.62	0.48
2:AA:1850:G:C6	2:AA:1851:U:C4	3.02	0.48
2:AA:1892:C:C4	2:AA:1893:C:C5	3.01	0.48
2:AA:2141:G:C6	2:AA:2150:U:C2	3.02	0.48
2:AA:2432:A:C2	2:AA:2433:A:C5	3.02	0.48
2:AA:2458:G:C6	2:AA:2490:G:H2'	2.48	0.48
2:AA:2554:U:C4	2:AA:2555:U:O4	2.67	0.48
2:AA:2563:U:O2	2:AA:2566:A:C8	2.66	0.48
2:AA:2568:C:O2	2:AA:2569:G:N9	2.46	0.48
2:AA:2607:G:H2'	2:AA:2608:G:O5'	2.13	0.48
2:AA:2612:C:O2'	2:AA:2613:U:O5'	2.31	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2634:G:C6	2:AA:2635:C:C5	3.01	0.48
2:AA:2729:G:H2'	2:AA:2730:C:O4'	2.14	0.48
2:AA:2742:C:C2	2:AA:2743:C:C5	3.01	0.48
2:AA:2792:G:N2	2:AA:2793:G:N1	2.62	0.48
2:AA:2820:A:N6	5:AE:304:ASP:CB	2.76	0.48
3:AC:22:ILE:HG22	3:AC:186:ALA:CA	2.16	0.48
3:AC:59:ARG:CD	3:AC:164:ARG:HD3	2.43	0.48
4:AD:94:ASN:OD1	4:AD:100:LYS:CE	2.62	0.48
4:AD:143:ILE:CG2	4:AD:153:LEU:HB2	2.43	0.48
5:AE:192:ILE:O	5:AE:194:ARG:HG2	2.13	0.48
5:AE:296:VAL:HG12	5:AE:297:LYS:N	2.28	0.48
6:AF:197:SER:O	6:AF:238:SER:CB	2.61	0.48
7:AG:22:VAL:O	7:AG:24:HIS:CE1	2.66	0.48
7:AG:69:ILE:O	7:AG:69:ILE:HG22	2.14	0.48
9:AI:25:LEU:HA	9:AI:28:LYS:CG	2.44	0.48
9:AI:77:VAL:HG13	9:AI:102:ILE:HD11	1.96	0.48
9:AJ:75:LYS:HE2	11:AL:66:PHE:CE2	2.48	0.48
10:AK:89:LEU:HD11	10:AK:124:LEU:HD13	1.94	0.48
10:AK:116:GLU:HG3	10:AK:132:LYS:HG3	1.96	0.48
10:AK:132:LYS:C	10:AK:138:THR:HB	2.38	0.48
11:AL:93:LYS:HD3	11:AL:96:ILE:CD1	2.42	0.48
11:AL:110:LYS:C	11:AL:113:MET:HG2	2.39	0.48
13:AN:5:GLU:HB3	13:AN:20:LEU:CD2	2.44	0.48
13:AN:7:ARG:CB	13:AN:44:LYS:HZ1	2.24	0.48
14:AO:72:ASN:O	14:AO:75:LEU:HB3	2.14	0.48
17:AR:17:THR:C	17:AR:18:GLY:O	2.51	0.48
18:AS:68:ARG:HB3	18:AS:110:LYS:H	1.79	0.48
18:AS:70:TYR:CE2	18:AS:72:LYS:HA	2.49	0.48
18:AS:75:TYR:CE1	18:AS:104:THR:CB	2.96	0.48
18:AS:84:ARG:O	18:AS:95:ILE:CG2	2.61	0.48
18:AS:86:LEU:CB	18:AS:87:PRO:CD	2.91	0.48
20:AU:49:GLU:O	20:AU:97:ARG:CG	2.61	0.48
20:AU:63:ILE:HG22	20:AU:64:ASN:OD1	2.13	0.48
21:AV:154:LEU:HD23	21:AV:155:PRO:N	2.29	0.48
22:AW:16:ARG:HA	22:AW:19:GLU:OE1	2.13	0.48
27:A3:29:GLU:O	27:A3:31:VAL:HB	2.13	0.48
31:A7:8:ASN:O	31:A7:11:LYS:N	2.45	0.48
32:A8:4:MET:HA	32:A8:5:LYS:HZ1	1.76	0.48
33:A9:32:HIS:O	33:A9:34:GLN:N	2.47	0.48
34:BA:83:U:H2'	34:BA:84:U:H6	1.77	0.48
34:BA:128:G:H8	34:BA:128:G:O5'	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:130:A:N7	52:BT:64:PRO:HD2	2.27	0.48
34:BA:145:G:C6	34:BA:178:C:C4	3.02	0.48
34:BA:196:A:N3	34:BA:222:U:H1'	2.29	0.48
34:BA:240:C:C2	34:BA:241:C:C5	3.01	0.48
34:BA:262:A:C2'	34:BA:263:A:C8	2.96	0.48
34:BA:327:A:C4	34:BA:329:A:C8	3.02	0.48
34:BA:392:G:H5''	51:BS:12:LYS:NZ	2.29	0.48
34:BA:392:G:O2'	34:BA:483:C:O4'	2.31	0.48
34:BA:478:A:C5	34:BA:479:C:N4	2.81	0.48
34:BA:528:C:H4'	34:BA:535:A:C6	2.48	0.48
34:BA:545:C:OP2	39:BG:62:GLN:OE1	2.31	0.48
34:BA:587:G:N1	34:BA:755:G:C6	2.81	0.48
34:BA:682:G:C2	34:BA:683:G:C8	3.00	0.48
34:BA:712:A:H2'	34:BA:713:G:O4'	2.13	0.48
34:BA:762:C:C4	34:BA:763:G:O6	2.67	0.48
34:BA:771:G:O6	34:BA:809:G:C5	2.67	0.48
34:BA:832:C:O2'	34:BA:833:U:H5'	2.13	0.48
34:BA:887:G:C6	34:BA:888:G:C5	3.01	0.48
34:BA:939:G:H2'	34:BA:940:C:C6	2.48	0.48
34:BA:982:U:H5''	34:BA:983:A:OP1	2.13	0.48
34:BA:1028:C:C4	34:BA:1029:C:N4	2.82	0.48
34:BA:1087:G:C4	34:BA:1088:G:C8	3.02	0.48
34:BA:1213:A:H2'	34:BA:1215:G:N7	2.28	0.48
34:BA:1231:G:C2'	34:BA:1232:U:H6	2.24	0.48
34:BA:1301:U:C4	34:BA:1303:C:C1'	2.97	0.48
34:BA:1308:U:H4'	48:BP:92:HIS:HE1	1.79	0.48
34:BA:1370:G:O2'	34:BA:1371:G:H5'	2.14	0.48
34:BA:1418:A:N1	34:BA:1483:A:N1	2.62	0.48
34:BA:1419:G:C2'	34:BA:1420:C:C6	2.96	0.48
34:BA:1419:G:N1	34:BA:1482:G:C4	2.81	0.48
35:BB:31:A:H5''	35:BB:31:A:H8	1.73	0.48
35:BB:66:A:C6	35:BB:67:A:C6	3.01	0.48
36:B1:54:G:C2	36:B1:55:U:C5	3.01	0.48
37:BE:188:ALA:HB1	37:BE:192:SER:CB	2.44	0.48
37:BE:222:ILE:HG13	37:BE:223:ILE:N	2.27	0.48
38:BF:35:GLU:O	38:BF:39:ILE:HG13	2.13	0.48
38:BF:113:ALA:O	38:BF:114:PRO:C	2.57	0.48
38:BF:173:VAL:N	38:BF:174:PRO:CD	2.76	0.48
39:BG:98:GLU:C	39:BG:100:ARG:N	2.72	0.48
40:BH:9:LYS:HD3	40:BH:108:ALA:CA	2.44	0.48
41:BI:33:TYR:CE2	41:BI:75:LEU:N	2.81	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BI:52:ILE:O	41:BI:55:ASP:CB	2.58	0.48
42:BJ:100:ALA:O	42:BJ:104:LEU:CD2	2.41	0.48
42:BJ:126:ASP:C	42:BJ:131:LYS:O	2.56	0.48
45:BM:48:THR:HG22	45:BM:60:ARG:HG3	1.95	0.48
46:BN:69:ALA:O	46:BN:72:ALA:CB	2.60	0.48
47:BO:38:THR:C	47:BO:39:VAL:CG2	2.87	0.48
47:BO:45:PRO:CB	47:BO:49:ASN:O	2.60	0.48
48:BP:92:HIS:CE1	48:BP:98:VAL:HG21	2.48	0.48
49:BQ:27:CYS:H	49:BQ:43:CYS:HB3	1.79	0.48
49:BQ:29:ARG:NH1	49:BQ:29:ARG:HG2	2.27	0.48
50:BR:37:ASN:N	50:BR:37:ASN:HD22	2.10	0.48
50:BR:45:VAL:O	50:BR:46:HIS:CB	2.60	0.48
51:BS:80:PHE:O	51:BS:82:GLN:N	2.47	0.48
52:BT:31:LEU:O	52:BT:31:LEU:CD1	2.56	0.48
53:BU:86:VAL:O	53:BU:87:ARG:CB	2.62	0.48
55:BW:16:HIS:O	55:BW:18:GLN:N	2.47	0.48
55:BW:16:HIS:C	55:BW:18:GLN:N	2.70	0.48
2:AA:8:A:N6	2:AA:2895:U:H3	2.08	0.48
2:AA:35:G:C2	2:AA:454:A:C2	3.00	0.48
2:AA:225:A:C6	2:AA:226:G:C5	3.02	0.48
2:AA:251:A:C4	2:AA:252:G:H1'	2.49	0.48
2:AA:298:G:C8	2:AA:298:G:OP2	2.67	0.48
2:AA:352:G:C5	2:AA:353:G:C8	3.02	0.48
2:AA:447:A:C5	2:AA:454:A:N6	2.81	0.48
2:AA:598:G:N2	6:AF:33:LYS:HZ1	2.12	0.48
2:AA:627:A:N6	2:AA:637:A:C1'	2.76	0.48
2:AA:662:G:N3	2:AA:663:G:N7	2.61	0.48
2:AA:693:C:C2	2:AA:694:U:C6	3.02	0.48
2:AA:746:A:O2'	2:AA:747:U:OP2	2.30	0.48
2:AA:802:A:C2'	2:AA:803:U:H6	2.17	0.48
2:AA:809:G:C4'	2:AA:1254:A:H1'	2.43	0.48
2:AA:811:U:H3'	2:AA:811:U:C6	2.48	0.48
2:AA:958:U:O2'	2:AA:959:A:H5''	2.12	0.48
2:AA:1006:C:O2'	12:AM:86:MET:SD	2.70	0.48
2:AA:1031:G:N1	2:AA:1032:A:C6	2.82	0.48
2:AA:1083:U:C6	2:AA:1083:U:H5''	2.49	0.48
2:AA:1205:U:O2	6:AF:232:LEU:HD12	2.14	0.48
2:AA:1429:G:C2'	2:AA:1430:C:O4'	2.62	0.48
2:AA:1497:U:C4	2:AA:1498:C:C5	3.02	0.48
2:AA:1527:G:H2'	2:AA:1528:A:O5'	2.13	0.48
2:AA:1574:C:C2	2:AA:1575:C:N3	2.82	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1636:C:O2	2:AA:1636:C:C2'	2.61	0.48
2:AA:1707:G:C2'	2:AA:1708:C:C6	2.94	0.48
2:AA:1754:C:N3	2:AA:1755:A:C4	2.81	0.48
2:AA:1789:A:O3'	4:AD:224:VAL:HG22	2.13	0.48
2:AA:1842:G:C4	2:AA:1843:C:C6	3.02	0.48
2:AA:1907:G:N3	2:AA:1908:C:C5	2.81	0.48
2:AA:1916:A:O5'	2:AA:1916:A:C8	2.66	0.48
2:AA:1986:A:C2	2:AA:1987:G:C5	3.01	0.48
2:AA:2004:G:C6	2:AA:2005:A:C4	3.02	0.48
2:AA:2020:A:N7	2:AA:2022:U:O4	2.47	0.48
2:AA:2027:G:C1'	2:AA:2037:G:N2	2.72	0.48
2:AA:2058:A:N1	2:AA:2059:A:N6	2.61	0.48
2:AA:2117:A:C2	2:AA:2118:U:H4'	2.49	0.48
2:AA:2123:G:H4'	3:AC:172:HIS:CE1	2.49	0.48
2:AA:2151:G:N1	2:AA:2152:G:N3	2.61	0.48
2:AA:2209:C:H2'	2:AA:2210:G:H3'	0.77	0.48
2:AA:2244:U:C2'	2:AA:2245:U:O5'	2.62	0.48
2:AA:2333:A:N9	2:AA:2335:A:C2	2.81	0.48
2:AA:2364:C:C5'	27:A3:38:VAL:CG1	2.88	0.48
2:AA:2407:G:N3	2:AA:2408:U:C4	2.82	0.48
2:AA:2434:A:O2'	2:AA:2435:A:C5'	2.62	0.48
2:AA:2627:G:O2'	2:AA:2781:A:C2	2.59	0.48
2:AA:2680:C:OP2	5:AE:261:ARG:NH1	2.47	0.48
2:AA:2707:G:O2'	2:AA:2708:G:H5'	2.13	0.48
2:AA:2838:G:C2'	2:AA:2839:G:O5'	2.62	0.48
2:AA:2851:A:C2	2:AA:2852:G:O4'	2.65	0.48
2:AA:2876:G:H2'	2:AA:2877:G:OP2	2.13	0.48
3:AC:68:LEU:CD2	3:AC:72:VAL:HG21	2.43	0.48
3:AC:215:THR:CB	3:AC:220:PRO:O	2.62	0.48
4:AD:107:LYS:HB2	4:AD:195:GLY:HA2	1.95	0.48
4:AD:122:ASP:OD2	4:AD:124:LYS:HB2	2.14	0.48
4:AD:128:ALA:CB	4:AD:190:THR:HA	2.43	0.48
4:AD:174:ARG:HA	4:AD:180:VAL:CG1	2.23	0.48
5:AE:46:ALA:CB	5:AE:72:VAL:CG2	2.80	0.48
5:AE:63:GLU:HB2	5:AE:64:GLY:H	1.30	0.48
5:AE:174:LEU:N	5:AE:174:LEU:CD1	2.68	0.48
8:AH:70:LEU:O	8:AH:73:ASN:CB	2.60	0.48
8:AH:73:ASN:C	8:AH:75:VAL:N	2.72	0.48
9:AJ:64:LYS:O	9:AJ:65:SER:CB	2.61	0.48
9:AJ:125:VAL:HG12	9:AJ:126:GLU:N	2.28	0.48
10:AK:19:LYS:CD	10:AK:20:ASN:H	2.25	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:84:GLY:C	10:AK:85:GLU:HG3	2.38	0.48
10:AK:88:ARG:HG2	10:AK:123:ALA:HA	1.96	0.48
12:AM:136:SER:HA	12:AM:139:LEU:CD2	2.44	0.48
13:AN:22:ILE:N	13:AN:41:ALA:HB2	2.28	0.48
14:AO:67:ARG:CD	14:AO:111:ALA:O	2.61	0.48
14:AO:144:ASP:C	14:AO:145:LEU:HD12	2.39	0.48
15:AP:17:ARG:O	15:AP:23:ILE:CD1	2.62	0.48
15:AP:32:LYS:CE	21:AV:172:LEU:CD1	2.91	0.48
15:AP:35:ASN:ND2	21:AV:114:ASP:H	2.10	0.48
15:AP:94:ARG:HD3	15:AP:106:GLY:HA2	1.96	0.48
16:AQ:23:ARG:HH21	16:AQ:35:VAL:CG2	2.20	0.48
16:AQ:23:ARG:HG2	16:AQ:33:ARG:NH2	2.28	0.48
16:AQ:31:LYS:HD2	16:AQ:99:GLU:O	2.13	0.48
16:AQ:84:THR:O	16:AQ:87:LEU:HB2	2.14	0.48
16:AQ:90:LEU:HA	16:AQ:93:GLN:CG	2.43	0.48
16:AQ:127:LEU:HD22	16:AQ:129:ILE:HG12	1.96	0.48
18:AS:55:ALA:CA	18:AS:107:LEU:CD1	2.86	0.48
19:AT:58:MET:C	19:AT:59:ASP:CG	2.81	0.48
21:AV:107:GLU:N	21:AV:107:GLU:OE2	2.44	0.48
22:AW:19:GLU:CG	22:AW:23:LEU:HD11	2.42	0.48
24:A0:22:ARG:HH21	24:A0:69:ASP:HB3	1.79	0.48
24:A0:44:LEU:HD13	24:A0:44:LEU:O	2.14	0.48
24:A0:55:ALA:HB1	24:A0:79:LEU:CD2	2.43	0.48
24:A0:59:ASP:C	24:A0:63:ARG:HG3	2.38	0.48
25:A1:14:HIS:CD2	25:A1:36:PHE:HZ	2.32	0.48
25:A1:47:TYR:CE1	26:A2:76:SER:CA	2.80	0.48
25:A1:84:LYS:CE	25:A1:92:ARG:NH2	2.77	0.48
25:A1:94:VAL:HG12	25:A1:98:ILE:CD1	2.43	0.48
25:A1:111:ASP:HA	25:A1:114:ARG:CG	2.44	0.48
26:A2:4:ILE:HG23	26:A2:13:ARG:HA	1.96	0.48
27:A3:79:ILE:O	27:A3:81:ILE:CD1	2.61	0.48
29:A5:16:ARG:O	29:A5:17:ASP:C	2.54	0.48
32:A8:26:LYS:CG	32:A8:45:GLY:N	2.76	0.48
34:BA:46:G:N1	34:BA:366:C:C2	2.82	0.48
34:BA:99:C:O2'	34:BA:101:A:P	2.71	0.48
34:BA:128:G:C6	34:BA:129:U:C4	3.02	0.48
34:BA:157:G:C6	34:BA:165:C:N4	2.82	0.48
34:BA:201:C:H42	34:BA:216:G:H1	1.62	0.48
34:BA:247:G:C6	34:BA:278:G:N1	2.81	0.48
34:BA:321:A:C2	34:BA:333:G:C2	3.02	0.48
34:BA:721:G:H4'	34:BA:722:A:O4'	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:753:A:H4'	34:BA:754:C:C5'	2.44	0.48
34:BA:892:A:C6	34:BA:893:C:C4	3.02	0.48
34:BA:920:U:H4'	34:BA:1080:A:N6	2.29	0.48
34:BA:949:A:H4'	34:BA:1364:U:O4	2.13	0.48
34:BA:1103:C:N3	34:BA:1104:G:C5	2.81	0.48
34:BA:1131:G:P	44:BL:20:ARG:NH2	2.87	0.48
34:BA:1191:A:H5''	38:BF:4:LYS:HZ3	1.78	0.48
34:BA:1276:G:H1'	34:BA:1282:C:HO2'	1.77	0.48
34:BA:1310:G:C6	34:BA:1328:C:C4	3.01	0.48
34:BA:1418:A:C3'	34:BA:1419:G:H5'	2.44	0.48
34:BA:1441:G:H5''	34:BA:1442:G:C5'	2.44	0.48
34:BA:1514:C:C2	34:BA:1515:C:C5	3.02	0.48
34:BA:1538:C:C2	34:BA:1539:C:C6	3.01	0.48
36:B1:9:C:H2'	36:B1:10:U:H6	1.79	0.48
38:BF:42:LEU:C	38:BF:45:LYS:HB2	2.38	0.48
39:BG:57:ARG:HG2	39:BG:205:GLU:HB2	1.96	0.48
39:BG:155:LEU:HB2	39:BG:158:ILE:CG1	2.34	0.48
40:BH:32:VAL:HG13	40:BH:33:VAL:N	2.27	0.48
40:BH:84:PHE:O	40:BH:86:ALA:N	2.46	0.48
40:BH:105:VAL:CG1	40:BH:106:PRO:N	2.77	0.48
40:BH:107:ARG:NH1	40:BH:107:ARG:HB2	2.29	0.48
40:BH:109:ILE:HD12	40:BH:139:LEU:HD11	1.96	0.48
41:BI:91:VAL:O	41:BI:92:LYS:C	2.57	0.48
42:BJ:28:ASN:HA	42:BJ:31:MET:HE2	1.95	0.48
42:BJ:106:GLN:CA	42:BJ:109:ASN:ND2	2.59	0.48
44:BL:81:ILE:O	44:BL:82:ALA:C	2.55	0.48
45:BM:16:LEU:HD13	45:BM:94:VAL:HG11	1.95	0.48
46:BN:22:HIS:O	46:BN:28:THR:HG23	2.13	0.48
46:BN:59:TYR:CE2	46:BN:63:LEU:HD11	2.49	0.48
47:BO:54:LYS:CD	47:BO:54:LYS:N	2.76	0.48
48:BP:29:ARG:HD3	48:BP:64:TRP:NE1	2.28	0.48
48:BP:91:ARG:HB3	48:BP:98:VAL:HG13	1.95	0.48
50:BR:52:SER:O	50:BR:53:HIS:C	2.57	0.48
50:BR:69:TYR:O	50:BR:72:ARG:N	2.47	0.48
51:BS:67:THR:N	51:BS:70:ALA:HB3	2.29	0.48
54:BV:48:THR:HA	54:BV:60:VAL:O	2.13	0.48
55:BW:65:LYS:O	55:BW:68:LYS:HB2	2.13	0.48
1:AB:8:U:O2	1:AB:112:G:C6	2.64	0.48
1:AB:32:C:H3'	1:AB:33:G:H8	1.78	0.48
1:AB:78:A:H2'	1:AB:79:C:C5'	2.44	0.48
1:AB:82:G:O6	1:AB:95:U:C4	2.67	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:39:C:N3	2:AA:40:C:C4	2.82	0.48
2:AA:59:U:C6	2:AA:73:A:N6	2.81	0.48
2:AA:114:U:H2'	2:AA:115:C:H6	1.78	0.48
2:AA:125:G:O2'	31:A7:13:ALA:HB1	2.13	0.48
2:AA:296:C:H6	2:AA:338:G:N2	2.10	0.48
2:AA:357:A:C6	2:AA:358:U:C5	3.02	0.48
2:AA:481:G:O2'	2:AA:482:A:C8	2.66	0.48
2:AA:521:G:H2'	2:AA:522:G:H8	1.79	0.48
2:AA:540:G:O6	2:AA:541:C:N4	2.47	0.48
2:AA:673:C:C1'	6:AF:82:GLN:OE1	2.62	0.48
2:AA:738:G:C5	2:AA:739:G:C2	3.00	0.48
2:AA:827:U:H4'	2:AA:828:U:O2	2.14	0.48
2:AA:858:U:H2'	2:AA:2268:A:O2'	2.13	0.48
2:AA:906:G:N3	2:AA:906:G:C2'	2.76	0.48
2:AA:972:G:C5	2:AA:1188:U:O4	2.62	0.48
2:AA:974:G:OP1	2:AA:1188:U:C5	2.66	0.48
2:AA:975:G:C8	2:AA:990:A:N1	2.82	0.48
2:AA:993:G:O6	2:AA:1160:G:C6	2.67	0.48
2:AA:1009:A:C6	2:AA:1010:A:N1	2.81	0.48
2:AA:1183:G:OP1	23:AX:29:ARG:CG	2.46	0.48
2:AA:1224:G:O2'	26:A2:86:HIS:CA	2.62	0.48
2:AA:1326:U:H2'	2:AA:1327:C:O4'	2.14	0.48
2:AA:1397:U:O2	2:AA:1397:U:C2'	2.61	0.48
2:AA:1410:G:C2	2:AA:1593:G:C2	3.01	0.48
2:AA:444(A):A:C2'	2:AA:1460:A:O2'	2.58	0.48
2:AA:1579:A:H2'	2:AA:1580:A:C5'	2.44	0.48
2:AA:1579:A:OP2	2:AA:1580:A:N7	2.47	0.48
2:AA:1650:G:O2'	2:AA:1651:G:O5'	2.31	0.48
2:AA:1710:C:H4'	2:AA:2858:C:N3	2.29	0.48
2:AA:1790:C:O2	2:AA:1791:A:C8	2.67	0.48
2:AA:1812:A:C2	2:AA:1813:G:H1'	2.48	0.48
2:AA:1818:U:C2'	2:AA:1819:A:OP2	2.62	0.48
2:AA:1829:A:N1	2:AA:1830:C:H1'	2.29	0.48
2:AA:1833:U:O2'	2:AA:1834:U:O4'	2.30	0.48
2:AA:1861:G:O2'	2:AA:1862:G:H5'	2.14	0.48
2:AA:1872:A:C2'	2:AA:1878:G:C5'	2.87	0.48
2:AA:2018:G:H2'	2:AA:2019:A:O5'	2.13	0.48
2:AA:2041:U:H2'	2:AA:2042:A:O4'	2.14	0.48
2:AA:2048:G:C2	2:AA:2049:G:C4	3.02	0.48
2:AA:2125:G:H5'	3:AC:130:ILE:HG13	1.95	0.48
2:AA:2286:A:C4'	2:AA:2287:A:O4'	2.62	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2298:A:C2	2:AA:2299:G:C1'	2.97	0.48
2:AA:2344:U:OP1	30:A6:39:LYS:HE2	2.13	0.48
2:AA:2356:C:C6	2:AA:2356:C:C3'	2.97	0.48
2:AA:2414:G:C4	2:AA:2415:G:N7	2.82	0.48
2:AA:2476:A:C8	2:AA:2477:C:H6	2.32	0.48
2:AA:2558:C:O2	2:AA:2559:C:C6	2.67	0.48
2:AA:2575:C:C5'	2:AA:2576:G:OP2	2.60	0.48
2:AA:2681:C:H1'	2:AA:2682:U:C5	2.48	0.48
2:AA:2737:G:N1	2:AA:2768:C:N4	2.61	0.48
2:AA:2753:A:O2'	33:A9:15:LYS:NZ	2.47	0.48
2:AA:2817:G:C6	2:AA:2818:G:N7	2.81	0.48
3:AC:8:ARG:HD2	3:AC:8:ARG:C	2.38	0.48
3:AC:112:ALA:HB1	3:AC:156:ILE:HD13	1.94	0.48
5:AE:199:ALA:HB1	5:AE:311:PHE:HB2	1.95	0.48
5:AE:300:VAL:C	5:AE:302:GLY:N	2.52	0.48
6:AF:3:ALA:CB	6:AF:18:LEU:HD23	2.42	0.48
6:AF:6:TYR:CD1	6:AF:139:VAL:O	2.67	0.48
6:AF:22:PHE:CZ	6:AF:115:LEU:HD12	2.49	0.48
6:AF:102:LEU:HB3	6:AF:107:ARG:HE	1.79	0.48
6:AF:149:LYS:O	6:AF:152:GLU:N	2.47	0.48
7:AG:35:ALA:C	7:AG:36:ASN:CG	2.78	0.48
8:AH:121:GLU:OE2	8:AH:134:GLY:CA	2.48	0.48
10:AK:1:MET:HB2	10:AK:22:ALA:HA	1.95	0.48
10:AK:7:LYS:C	10:AK:12:LYS:C	2.81	0.48
10:AK:8:ASP:C	10:AK:10:LYS:N	2.64	0.48
10:AK:31:PHE:O	10:AK:32:LYS:C	2.54	0.48
10:AK:77:VAL:HB	10:AK:142:LYS:O	2.14	0.48
10:AK:114:LYS:NZ	10:AK:133:LEU:HA	2.27	0.48
11:AL:48:ASP:C	11:AL:49:LYS:HG3	2.38	0.48
12:AM:41:ALA:C	12:AM:132:LEU:O	2.57	0.48
13:AN:7:ARG:CB	13:AN:44:LYS:HZ2	2.24	0.48
13:AN:23:LYS:O	13:AN:39:VAL:HG13	2.14	0.48
14:AO:75:LEU:C	14:AO:77:ALA:H	2.22	0.48
15:AP:57:ARG:O	15:AP:61:LEU:CD2	2.62	0.48
15:AP:148:ASN:ND2	15:AP:149:ILE:N	2.62	0.48
16:AQ:87:LEU:CD2	16:AQ:87:LEU:N	2.75	0.48
17:AR:50:GLU:HG3	17:AR:55:ALA:HB3	1.92	0.48
18:AS:5:ALA:HB1	18:AS:50:VAL:CG1	2.44	0.48
20:AU:9:LYS:HA	20:AU:13:ARG:HD2	1.96	0.48
21:AV:26:LYS:C	21:AV:27:GLU:CG	2.87	0.48
21:AV:103:ARG:HH11	21:AV:139:THR:HG22	1.79	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:112:LEU:CD1	21:AV:142:ASN:HA	2.43	0.48
23:AX:30:ARG:HH21	23:AX:33:GLN:HB2	1.77	0.48
23:AX:41:PRO:CA	23:AX:44:ARG:HB3	2.41	0.48
24:A0:16:HIS:ND1	24:A0:16:HIS:N	2.54	0.48
25:A1:39:LEU:O	25:A1:40:LEU:C	2.56	0.48
26:A2:35:LEU:N	26:A2:60:VAL:CG1	2.70	0.48
26:A2:46:VAL:C	26:A2:47:PHE:CD1	2.92	0.48
26:A2:69:ILE:CG2	26:A2:89:ASN:O	2.61	0.48
26:A2:85:GLY:C	26:A2:86:HIS:ND1	2.71	0.48
27:A3:6:GLY:O	27:A3:8:GLY:N	2.46	0.48
27:A3:69:PHE:C	27:A3:70:ILE:CD1	2.84	0.48
28:A4:39:VAL:C	28:A4:40:HIS:CG	2.91	0.48
28:A4:42:PHE:C	28:A4:57:ASP:OD1	2.57	0.48
29:A5:16:ARG:O	29:A5:19:ARG:HB3	2.14	0.48
31:A7:27:GLY:C	31:A7:31:LEU:CG	2.84	0.48
32:A8:58:MET:O	32:A8:61:MET:N	2.47	0.48
34:BA:21:G:O2'	34:BA:22:G:H5'	2.14	0.48
34:BA:38:G:C2	34:BA:397:A:N3	2.81	0.48
34:BA:145:G:N1	34:BA:178:C:C4	2.82	0.48
34:BA:258:G:H1	34:BA:268:C:N4	2.08	0.48
34:BA:277:C:N4	34:BA:278:G:C5	2.82	0.48
34:BA:321:A:N6	34:BA:328:C:H1'	2.17	0.48
34:BA:362:G:OP1	47:BO:34:ARG:NH2	2.47	0.48
34:BA:392:G:H2'	34:BA:393:A:O4'	2.14	0.48
34:BA:476:G:O2'	34:BA:477:G:C5'	2.61	0.48
34:BA:505:G:N2	34:BA:535:A:N6	2.61	0.48
34:BA:623:C:O2'	34:BA:624:C:H5'	2.13	0.48
34:BA:667:G:C2	34:BA:740:U:C2	3.02	0.48
34:BA:673:G:C5	34:BA:734:G:C2	3.02	0.48
34:BA:707:C:O2'	34:BA:708:C:H5'	2.14	0.48
34:BA:757:U:O2	34:BA:879:C:O2'	2.31	0.48
34:BA:1039:C:O2'	34:BA:1040:U:H5'	2.13	0.48
34:BA:1140:C:H2'	34:BA:1141:C:H5'	1.95	0.48
34:BA:1157:A:H5''	34:BA:1158:C:OP1	2.13	0.48
34:BA:1190:G:OP1	38:BF:5:ILE:CG1	2.50	0.48
34:BA:1201:A:C2'	34:BA:1202:G:OP2	2.62	0.48
34:BA:1220:G:C2	34:BA:1221:G:C4	3.02	0.48
34:BA:1269:A:C2'	34:BA:1270:C:H5'	2.43	0.48
34:BA:1347:G:C8	44:BL:107:ARG:O	2.67	0.48
34:BA:1472:U:H2'	34:BA:1473:A:C5'	2.44	0.48
34:BA:1528:U:O2	34:BA:1530:G:C5'	2.61	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B1:15:A:OP2	36:B1:17:G:O6	2.32	0.48
36:B1:21:U:H2'	36:B1:22:C:N1	2.28	0.48
36:B1:52:A:H8	36:B1:52:A:O5'	1.97	0.48
36:B1:63:C:C4'	36:B1:63:C:OP2	2.61	0.48
37:BE:20:GLU:C	37:BE:39:ILE:HG12	2.39	0.48
37:BE:116:GLU:C	37:BE:118:LEU:N	2.68	0.48
37:BE:158:LEU:O	37:BE:160:ASP:N	2.47	0.48
37:BE:222:ILE:HD12	37:BE:226:ARG:NH2	2.21	0.48
38:BF:44:GLU:HA	38:BF:52:LEU:CD1	2.43	0.48
38:BF:134:ILE:HG23	38:BF:151:VAL:HB	1.96	0.48
39:BG:38:TYR:OH	39:BG:45:GLN:NE2	2.46	0.48
42:BJ:31:MET:O	42:BJ:32:ARG:CB	2.61	0.48
42:BJ:118:VAL:CG1	42:BJ:122:HIS:NE2	2.66	0.48
42:BJ:150:ALA:O	42:BJ:151:TYR:C	2.57	0.48
43:BK:14:ARG:HD2	43:BK:15:ASN:H	1.78	0.48
44:BL:10:ARG:O	44:BL:11:LYS:C	2.55	0.48
44:BL:11:LYS:HZ2	44:BL:108:VAL:CG1	2.27	0.48
44:BL:50:LEU:CD2	44:BL:55:ALA:O	2.62	0.48
45:BM:49:VAL:O	45:BM:60:ARG:CG	2.62	0.48
45:BM:84:GLN:O	45:BM:85:LEU:HD23	2.13	0.48
46:BN:71:LYS:O	46:BN:74:ALA:N	2.46	0.48
46:BN:95:ILE:C	46:BN:98:LEU:HB2	2.36	0.48
46:BN:105:VAL:O	46:BN:105:VAL:HG12	2.13	0.48
47:BO:70:ILE:HD13	47:BO:77:LEU:HD13	1.96	0.48
50:BR:43:LEU:HD23	50:BR:43:LEU:HA	1.70	0.48
50:BR:54:ARG:HA	50:BR:57:LEU:HD22	1.95	0.48
50:BR:62:GLN:HA	50:BR:65:ARG:CZ	2.43	0.48
51:BS:55:ARG:NH2	51:BS:58:TYR:CG	2.82	0.48
51:BS:75:ARG:HG3	51:BS:80:PHE:CB	2.44	0.48
52:BT:23:VAL:O	52:BT:23:VAL:HG12	2.14	0.48
54:BV:21:GLU:O	54:BV:24:ALA:HB3	2.14	0.48
54:BV:24:ALA:O	54:BV:26:GLY:N	2.46	0.48
54:BV:50:ALA:HA	54:BV:58:VAL:O	2.14	0.48
1:AB:81:G:C6	1:AB:82:G:C5	3.01	0.48
1:AB:115:G:O2'	1:AB:116:G:H5'	2.14	0.48
2:AA:125:G:H3'	31:A7:19:ARG:NH1	2.29	0.48
2:AA:135:G:C4	2:AA:145:G:N1	2.82	0.48
2:AA:138:G:O2'	2:AA:140:A:C5'	2.54	0.48
2:AA:146:G:H2'	2:AA:147:U:C4'	2.44	0.48
2:AA:223:A:C2	2:AA:408:G:C8	3.02	0.48
2:AA:270(Q):C:H2'	2:AA:270(R):G:O4'	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:279:C:OP2	2:AA:279:C:O4'	2.31	0.48
2:AA:312:G:OP2	2:AA:332:A:H5'	2.14	0.48
2:AA:352:G:O6	2:AA:353:G:C6	2.67	0.48
2:AA:445:C:H3'	25:A1:3:ARG:NE	2.28	0.48
2:AA:533:G:C6	2:AA:534:U:N3	2.81	0.48
2:AA:728:G:C2	2:AA:730:C:C2	3.01	0.48
2:AA:728:G:C6	2:AA:730:C:N3	2.82	0.48
2:AA:849:A:H2'	2:AA:850:C:O4'	2.14	0.48
2:AA:864:G:H2'	2:AA:865:C:H1'	1.92	0.48
2:AA:871:U:H2'	2:AA:872:A:H8	1.78	0.48
2:AA:930:U:H2'	2:AA:931:G:N9	2.29	0.48
2:AA:957:A:C2	2:AA:2459:A:C5'	2.96	0.48
2:AA:1047:G:H2'	2:AA:1110:G:C2	2.49	0.48
2:AA:1057:A:N1	2:AA:1081:U:O2	2.47	0.48
2:AA:1080:C:C3'	11:AL:126:LYS:HB3	2.44	0.48
2:AA:1084:A:C8	9:AI:25:LEU:HD13	2.48	0.48
2:AA:1091:G:N2	2:AA:1101:U:N1	2.62	0.48
2:AA:1131:G:N2	2:AA:1132:A:C2	2.81	0.48
2:AA:1147:C:C6	2:AA:1147:C:H3'	2.48	0.48
2:AA:1209:G:H4'	2:AA:1212:G:C5'	2.43	0.48
2:AA:1265:A:P	2:AA:2615:U:OP1	2.72	0.48
2:AA:1315:C:H2'	2:AA:1316:U:C6	2.47	0.48
2:AA:1327:C:N4	2:AA:1647:G:H21	2.11	0.48
2:AA:1422:G:C2	2:AA:1423:G:C4	3.02	0.48
2:AA:1497:U:H3	2:AA:1577:C:H4'	1.77	0.48
2:AA:1542:G:N3	2:AA:1542:G:H2'	2.29	0.48
2:AA:1612:C:N1	31:A7:3:ARG:CZ	2.77	0.48
2:AA:1682:G:C4	2:AA:1757:U:H1'	2.49	0.48
2:AA:1682:G:C6	2:AA:1757:U:H1'	2.49	0.48
2:AA:1726:G:N3	2:AA:1727:U:H5'	2.29	0.48
2:AA:1732:A:O2'	2:AA:1733:G:OP1	2.23	0.48
2:AA:1766:U:H3	2:AA:1986:A:H61	1.62	0.48
2:AA:1799:G:N1	4:AD:177:SER:CB	2.77	0.48
2:AA:1809:A:H61	28:A4:3:LYS:HG2	1.65	0.48
2:AA:1809:A:H61	28:A4:3:LYS:HB3	1.77	0.48
2:AA:1856:G:C2'	2:AA:1857:G:O5'	2.62	0.48
2:AA:1920:C:H4'	34:BA:1496:C:O2'	2.14	0.48
2:AA:2020:A:H62	29:A5:9:LYS:HE2	1.79	0.48
2:AA:2075:U:C4	2:AA:2238:G:O6	2.66	0.48
2:AA:2076:U:O2'	2:AA:2077:A:P	2.72	0.48
2:AA:2280:G:C6	2:AA:2281:C:C4	3.01	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2295:C:C4	2:AA:2337:G:N1	2.68	0.48
2:AA:2305:A:C3'	2:AA:2305:A:C8	2.97	0.48
2:AA:2326:C:O2	2:AA:2326:C:C2'	2.62	0.48
2:AA:2345:G:OP1	30:A6:39:LYS:O	2.31	0.48
2:AA:2353:G:O2'	27:A3:31:VAL:CG2	2.60	0.48
2:AA:2356:C:H6	2:AA:2356:C:O5'	1.96	0.48
2:AA:2423:U:C1'	2:AA:2425:A:C4	2.97	0.48
2:AA:2461:C:N3	2:AA:2462:U:C5	2.82	0.48
2:AA:2521:C:C2	2:AA:2522:U:C6	3.01	0.48
2:AA:2629:A:H61	2:AA:2801:A:H2	1.61	0.48
2:AA:2677:G:C2	2:AA:2678:C:C5	3.02	0.48
2:AA:2680:C:OP1	5:AE:302:GLY:C	2.56	0.48
2:AA:2685:G:C2	2:AA:2686:G:N7	2.82	0.48
2:AA:2692:C:O2	2:AA:2847:U:O2'	2.26	0.48
2:AA:2706:G:C2	2:AA:2707:G:N7	2.81	0.48
2:AA:2733:A:C2'	2:AA:2734:A:O5'	2.59	0.48
2:AA:2784:C:O4'	5:AE:97:THR:OG1	2.32	0.48
2:AA:2808:U:O2	2:AA:2810:A:C6	2.67	0.48
3:AC:50:ASP:OD1	3:AC:50:ASP:C	2.57	0.48
3:AC:139:ASN:HA	3:AC:140:PRO:HD2	1.76	0.48
3:AC:148:ASN:HD22	3:AC:151:GLU:CD	2.21	0.48
4:AD:68:ARG:HG2	4:AD:68:ARG:HH11	1.79	0.48
4:AD:83:ASP:HA	4:AD:84:PRO:HD3	1.70	0.48
4:AD:130:PRO:HA	4:AD:188:ARG:HG2	1.95	0.48
4:AD:143:ILE:HB	4:AD:153:LEU:HB2	1.95	0.48
5:AE:200:ASP:C	5:AE:201:VAL:CG2	2.86	0.48
5:AE:267:ARG:CB	5:AE:297:LYS:HD2	2.39	0.48
5:AE:269:ILE:N	5:AE:269:ILE:CD1	2.61	0.48
6:AF:47:GLY:CA	6:AF:92:PRO:HG2	2.43	0.48
6:AF:147:LEU:HD11	6:AF:156:LEU:HD21	1.96	0.48
6:AF:155:SER:C	6:AF:157:LEU:N	2.70	0.48
6:AF:218:VAL:HA	6:AF:222:ASP:CG	2.38	0.48
6:AF:221:GLU:O	6:AF:225:PRO:HG3	2.13	0.48
6:AF:224:ALA:O	6:AF:225:PRO:C	2.56	0.48
7:AG:97:GLN:CD	7:AG:106:PHE:HD2	2.21	0.48
9:AJ:40:ALA:O	9:AJ:41:ALA:C	2.57	0.48
10:AK:88:ARG:HB3	10:AK:122:ARG:HB3	1.96	0.48
10:AK:111:ASP:OD2	10:AK:112:LYS:HD3	2.14	0.48
10:AK:124:LEU:CD1	10:AK:146:THR:HA	2.43	0.48
12:AM:17:CYS:SG	12:AM:44:ALA:CB	3.02	0.48
12:AM:41:ALA:CB	12:AM:75:PRO:HB2	2.44	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:97:ARG:HH22	34:BA:339:C:P	2.37	0.48
14:AO:120:LEU:CD1	14:AO:121:ILE:N	2.75	0.48
16:AQ:82:TYR:O	16:AQ:86:LEU:HG	2.14	0.48
16:AQ:115:VAL:HG12	16:AQ:119:GLN:CG	2.43	0.48
18:AS:85:VAL:CG1	18:AS:95:ILE:HD11	2.37	0.48
19:AT:14:ALA:O	19:AT:15:MET:C	2.57	0.48
20:AU:49:GLU:OE2	20:AU:58:GLU:N	2.47	0.48
21:AV:123:VAL:CB	21:AV:161:ALA:H	2.27	0.48
25:A1:30:LYS:O	25:A1:32:TYR:N	2.44	0.48
26:A2:6:GLN:NE2	26:A2:10:LYS:CB	2.71	0.48
26:A2:24:SER:O	26:A2:28:GLU:HG3	2.14	0.48
26:A2:74:TYR:CZ	26:A2:88:GLN:CA	2.90	0.48
27:A3:44:LYS:HD3	27:A3:78:PHE:CD2	2.46	0.48
31:A7:46:ASP:OD2	31:A7:46:ASP:O	2.31	0.48
32:A8:10:ALA:HA	32:A8:14:ILE:CG2	2.22	0.48
32:A8:19:THR:CB	32:A8:21:LYS:NZ	2.77	0.48
33:A9:9:LYS:NZ	33:A9:16:VAL:CG2	2.77	0.48
34:BA:196:A:H1'	34:BA:222:U:O4'	2.13	0.48
34:BA:404:U:OP1	39:BG:118:ARG:NH1	2.47	0.48
34:BA:409:G:N3	34:BA:410:G:C8	2.82	0.48
34:BA:673:G:C2	34:BA:674:G:N1	2.81	0.48
34:BA:754:C:C2'	34:BA:755:G:OP1	2.62	0.48
34:BA:978:A:C6	34:BA:1318:A:C6	3.02	0.48
34:BA:1126:U:O2'	34:BA:1127:G:H5'	2.13	0.48
34:BA:1150:U:C4'	34:BA:1280:A:C2	2.96	0.48
34:BA:1257:U:O2'	34:BA:1258:G:H8	1.93	0.48
34:BA:1348:U:C2	34:BA:1349:A:H8	2.32	0.48
34:BA:1351:U:O2'	34:BA:1352:C:H5'	2.14	0.48
34:BA:1358:U:H5''	34:BA:1359:C:OP2	2.14	0.48
34:BA:1422:G:O6	34:BA:1423:G:O6	2.31	0.48
34:BA:1514:C:N4	34:BA:1515:C:H41	2.11	0.48
35:BB:9:A:HO2'	35:BB:45:G:C2'	2.25	0.48
35:BB:15:G:N2	35:BB:60:C:O2	2.47	0.48
35:BC:15:G:N1	35:BC:21:A:H2	2.12	0.48
35:BC:36:A:HO2'	35:BC:37:G:P	2.37	0.48
35:BC:47:U:C5	35:BC:49:C:H4'	2.49	0.48
37:BE:79:ASP:HB3	37:BE:83:MET:HE3	1.95	0.48
38:BF:119:ARG:O	38:BF:120:VAL:C	2.57	0.48
38:BF:141:VAL:HG11	38:BF:202:ILE:HD13	1.96	0.48
38:BF:175:LEU:O	38:BF:176:HIS:O	2.32	0.48
39:BG:56:VAL:HG12	39:BG:57:ARG:CD	2.44	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:62:GLN:HA	39:BG:62:GLN:NE2	2.29	0.48
39:BG:80:GLU:O	39:BG:81:GLU:C	2.56	0.48
40:BH:75:THR:CA	40:BH:115:VAL:HG12	2.44	0.48
40:BH:129:ILE:O	40:BH:130:ASN:C	2.55	0.48
44:BL:93:ARG:O	44:BL:95:LYS:N	2.42	0.48
44:BL:113:LYS:HD2	44:BL:113:LYS:N	2.29	0.48
45:BM:8:LEU:HD22	45:BM:94:VAL:HG12	1.95	0.48
45:BM:75:ILE:O	45:BM:76:ASN:ND2	2.47	0.48
47:BO:100:ILE:H	47:BO:100:ILE:CD1	2.15	0.48
49:BQ:29:ARG:HB3	49:BQ:40:CYS:SG	2.53	0.48
49:BQ:29:ARG:CB	49:BQ:40:CYS:HB3	2.37	0.48
50:BR:27:VAL:O	50:BR:31:LEU:CD1	2.57	0.48
50:BR:64:ARG:HA	50:BR:67:LEU:HD12	1.95	0.48
50:BR:69:TYR:CE1	50:BR:73:GLU:HG2	2.49	0.48
51:BS:71:ARG:HB3	51:BS:71:ARG:HH11	1.78	0.48
52:BT:29:HIS:HB3	52:BT:32:TYR:C	2.39	0.48
53:BU:82:THR:O	53:BU:83:GLU:HB2	2.13	0.48
54:BV:24:ALA:HB3	54:BV:25:LYS:HZ2	1.79	0.48
54:BV:38:SER:O	54:BV:70:LYS:CA	2.62	0.48
56:BX:3:LYS:O	56:BX:4:GLY:C	2.57	0.48
2:AA:25:U:C3'	2:AA:26:G:C8	2.97	0.47
2:AA:35:G:C4	2:AA:454:A:N3	2.82	0.47
2:AA:66:C:C4	2:AA:89:G:C6	3.02	0.47
2:AA:118:A:OP2	2:AA:119:A:C8	2.67	0.47
2:AA:136:G:C6	2:AA:143:C:N3	2.81	0.47
2:AA:137(A):G:N7	2:AA:142:G:N3	2.62	0.47
2:AA:139:G:C2'	2:AA:141(A):C:C2'	2.82	0.47
2:AA:148:C:C2'	2:AA:149:A:C8	2.94	0.47
2:AA:181:A:N3	2:AA:182:A:C8	2.82	0.47
2:AA:272:G:C2	2:AA:273:G:C4	3.02	0.47
2:AA:274:G:O2'	2:AA:275:G:H5'	2.13	0.47
2:AA:331:A:C2	2:AA:1209:G:C6	3.02	0.47
2:AA:364:C:C6	2:AA:364:C:OP2	2.67	0.47
2:AA:507:A:C5'	2:AA:509:C:O4'	2.62	0.47
2:AA:535:C:H42	2:AA:558:G:H1	1.61	0.47
2:AA:541:C:O2'	2:AA:542:C:O5'	2.32	0.47
2:AA:593:G:C1'	32:A8:3:LYS:NZ	2.63	0.47
2:AA:602:G:O3'	2:AA:603:A:C4'	2.35	0.47
2:AA:602:G:H5'	2:AA:604:G:H5'	1.96	0.47
2:AA:742:G:C2	2:AA:743:G:N9	2.82	0.47
2:AA:742:G:C4	2:AA:743:G:C8	3.02	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:743:G:N1	2:AA:744:G:C5	2.82	0.47
2:AA:827:U:O5'	2:AA:828:U:N3	2.47	0.47
2:AA:878:A:N3	2:AA:878:A:C2'	2.77	0.47
2:AA:908:C:C2'	2:AA:909:A:H5'	2.44	0.47
2:AA:959:A:N3	2:AA:960:A:N7	2.61	0.47
2:AA:960:A:H2'	2:AA:962:G:H8	1.79	0.47
2:AA:974:G:C4'	2:AA:974(A):C:OP1	2.49	0.47
2:AA:1046:A:N3	9:AI:32:THR:HG21	2.29	0.47
2:AA:1059:G:N7	2:AA:1060:U:C1'	2.77	0.47
2:AA:1116:C:H2'	2:AA:1117:G:H8	1.79	0.47
2:AA:1181:C:O2'	2:AA:1182:A:O4'	2.31	0.47
2:AA:1238:G:O2'	2:AA:1239:G:H5'	2.13	0.47
2:AA:1309:G:OP1	31:A7:9:ASN:N	2.47	0.47
2:AA:1311:G:H3'	2:AA:1311:G:H8	1.78	0.47
2:AA:545(A):A:H8	2:AA:545(A):A:O5'	1.97	0.47
2:AA:1589:C:H2'	2:AA:1590:U:O4'	2.14	0.47
2:AA:1612:C:H42	2:AA:1619:G:H1	0.53	0.47
2:AA:1613:G:C2'	2:AA:1617:C:N4	2.67	0.47
2:AA:1634:A:O2'	2:AA:1635:G:P	2.71	0.47
2:AA:1791:A:H5''	2:AA:1792:G:C8	2.49	0.47
2:AA:2069:G:H2'	2:AA:2069:G:N3	2.29	0.47
2:AA:2078:C:H5'	2:AA:2434:A:C5'	2.44	0.47
2:AA:2213:U:C4'	2:AA:2215:G:N7	2.77	0.47
2:AA:2232:U:C2'	2:AA:2233:U:H5'	2.43	0.47
2:AA:2304:G:C2	2:AA:2313:C:O2	2.67	0.47
2:AA:2360:A:H5''	32:A8:49:VAL:CG2	2.43	0.47
2:AA:2360:A:C2'	2:AA:2361:A:O5'	2.56	0.47
2:AA:2538:C:O2'	2:AA:2539:C:O5'	2.32	0.47
2:AA:2543:G:C5	2:AA:2544:G:C5	3.02	0.47
2:AA:2633:G:H2'	2:AA:2634:G:O5'	2.14	0.47
2:AA:2699:C:N4	2:AA:2708:G:C6	2.82	0.47
2:AA:2706:G:H8	2:AA:2706:G:O5'	1.97	0.47
2:AA:2720:U:C4	2:AA:2872:G:C6	3.02	0.47
2:AA:2722:G:O2'	2:AA:2723:C:H5'	2.14	0.47
2:AA:2810:A:H3'	2:AA:2810:A:C8	2.49	0.47
2:AA:2838:G:H2'	2:AA:2839:G:O5'	2.13	0.47
3:AC:141:LYS:HD3	3:AC:141:LYS:O	2.14	0.47
3:AC:163:PHE:CD2	3:AC:192:PHE:HE1	2.31	0.47
4:AD:63:ILE:HD13	4:AD:86:ARG:HH22	1.74	0.47
5:AE:201:VAL:C	5:AE:266:LYS:HZ3	2.20	0.47
5:AE:225:LYS:O	5:AE:229:GLN:CD	2.57	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:149:ARG:O	7:AG:151:ILE:N	2.39	0.47
9:AI:52:ALA:HB1	9:AI:58:GLU:CB	2.42	0.47
9:AJ:70:LYS:HD2	11:AL:62:GLU:OE1	2.13	0.47
10:AK:135:PRO:C	10:AK:136:GLU:CG	2.87	0.47
11:AL:51:GLY:O	11:AL:81:LYS:HE3	2.14	0.47
11:AL:52:MET:SD	11:AL:81:LYS:CG	3.02	0.47
12:AM:23:ALA:CA	12:AM:26:VAL:CG2	2.87	0.47
12:AM:46:ILE:O	12:AM:47:THR:O	2.31	0.47
13:AN:31:ARG:O	13:AN:32:TYR:CD2	2.67	0.47
13:AN:119:PRO:HG2	13:AN:120:GLU:N	2.29	0.47
15:AP:45:GLN:HA	15:AP:125:TRP:NE1	2.29	0.47
15:AP:48:ASN:O	15:AP:121:ASP:CB	2.56	0.47
16:AQ:17:ARG:NH1	16:AQ:106:LEU:CD2	2.75	0.47
16:AQ:42:HIS:NE2	16:AQ:44:ARG:NH2	2.62	0.47
17:AR:13:ILE:HG13	17:AR:33:SER:HA	1.95	0.47
19:AT:28:VAL:O	19:AT:29:ASP:O	2.31	0.47
21:AV:7:PRO:CG	21:AV:8:ARG:N	2.70	0.47
21:AV:148:THR:O	21:AV:149:ALA:O	2.32	0.47
23:AX:18:ASP:OD1	23:AX:18:ASP:C	2.57	0.47
23:AX:22:ALA:O	23:AX:26:LEU:CG	2.54	0.47
23:AX:38:GLU:CD	23:AX:38:GLU:N	2.58	0.47
24:A0:24:GLN:O	24:A0:26:LYS:N	2.47	0.47
24:A0:81:ASP:O	24:A0:85:PRO:HG2	2.14	0.47
25:A1:109:LEU:C	25:A1:109:LEU:HD23	2.39	0.47
26:A2:28:GLU:O	26:A2:29:ALA:HB3	2.13	0.47
27:A3:7:VAL:O	27:A3:7:VAL:HG12	2.14	0.47
28:A4:43:TRP:HA	28:A4:56:VAL:O	2.14	0.47
29:A5:34:PRO:CD	29:A5:49:CYS:SG	3.02	0.47
34:BA:77:G:C6	34:BA:78:G:N7	2.82	0.47
34:BA:128:G:C2'	34:BA:129:U:H5'	2.44	0.47
34:BA:153:C:O2'	34:BA:154:C:C5'	2.62	0.47
34:BA:161:A:H2'	34:BA:162:A:C8	2.49	0.47
34:BA:188:C:C2	34:BA:189:G:C8	3.01	0.47
34:BA:191:G:C6	34:BA:192:U:O4	2.67	0.47
34:BA:257:G:O2'	34:BA:258:G:H5'	2.13	0.47
34:BA:258:G:N3	34:BA:259:G:N7	2.61	0.47
34:BA:276:G:O2'	52:BT:68:ARG:NH1	2.46	0.47
34:BA:292:G:C4	34:BA:309:G:C2	3.02	0.47
34:BA:314:C:H2'	34:BA:315:A:H1'	1.95	0.47
34:BA:393:A:O2'	34:BA:394:G:H5'	2.14	0.47
34:BA:483:C:C6	34:BA:483:C:C3'	2.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:597:G:N9	34:BA:644:G:N2	2.62	0.47
34:BA:674:G:O2'	53:BU:81:PHE:CZ	2.64	0.47
34:BA:688:G:H2'	34:BA:689:C:C5'	2.44	0.47
34:BA:817:C:H1'	34:BA:819:A:H5''	1.96	0.47
34:BA:887:G:C5	34:BA:888:G:N7	2.82	0.47
34:BA:900:A:N7	34:BA:901:A:N7	2.62	0.47
34:BA:1004:A:C3'	34:BA:1025:U:C4	2.95	0.47
34:BA:1018:C:N3	34:BA:1019:C:C5	2.82	0.47
34:BA:1123:A:O2'	45:BM:38:ILE:HG22	2.14	0.47
34:BA:1124:G:N2	34:BA:1149:C:N3	2.58	0.47
34:BA:1128:C:H2'	34:BA:1128:C:O2	2.14	0.47
34:BA:1148:U:H5'	44:BL:16:ARG:HD2	1.96	0.47
34:BA:1180:A:OP1	44:BL:102:LEU:HG	2.13	0.47
34:BA:1280:A:O4'	45:BM:41:PRO:CG	2.56	0.47
34:BA:1407:C:H2'	34:BA:1408:A:C5'	2.44	0.47
34:BA:1514:C:N4	34:BA:1515:C:N4	2.61	0.47
34:BA:1517:G:N1	34:BA:1518:A:N3	2.62	0.47
34:BA:1536:C:C2	36:B1:54:G:C2	3.02	0.47
35:BB:23:A:H2'	35:BB:24:G:C8	2.49	0.47
35:BC:7:U:N3	35:BC:67:A:C2	2.82	0.47
37:BE:9:GLU:OE2	37:BE:12:GLU:HG2	2.14	0.47
37:BE:32:ILE:HD13	37:BE:40:HIS:CD2	2.48	0.47
37:BE:32:ILE:HD13	37:BE:40:HIS:HD2	1.79	0.47
37:BE:73:THR:HA	37:BE:94:ASN:C	2.39	0.47
37:BE:74:LYS:C	37:BE:76:GLN:N	2.72	0.47
37:BE:77:ALA:CB	37:BE:211:ILE:CD1	2.92	0.47
37:BE:81:VAL:O	37:BE:82:ARG:C	2.56	0.47
38:BF:28:GLN:C	38:BF:30:ARG:N	2.70	0.47
38:BF:179:ARG:C	38:BF:181:ASN:N	2.72	0.47
39:BG:155:LEU:O	39:BG:158:ILE:CB	2.62	0.47
39:BG:187:ARG:HG3	39:BG:188:LEU:H	1.78	0.47
40:BH:35:GLY:HA3	40:BH:41:VAL:HG13	1.96	0.47
41:BI:11:ASN:OD1	41:BI:11:ASN:C	2.57	0.47
41:BI:33:TYR:CG	41:BI:75:LEU:HB2	2.49	0.47
42:BJ:50:ILE:CD1	42:BJ:58:PRO:HA	2.44	0.47
42:BJ:128:ALA:O	42:BJ:129:GLU:C	2.57	0.47
42:BJ:138:LYS:O	42:BJ:140:ASP:N	2.47	0.47
42:BJ:155:ARG:HA	42:BJ:155:ARG:HD3	1.49	0.47
44:BL:93:ARG:HE	44:BL:97:LYS:HB2	1.79	0.47
45:BM:12:ASP:O	45:BM:14:LYS:N	2.46	0.47
51:BS:20:VAL:HA	51:BS:36:ILE:HG13	1.94	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:11:VAL:CG2	52:BT:20:THR:CB	2.91	0.47
53:BU:53:ARG:HG2	53:BU:63:GLN:CD	2.39	0.47
53:BU:73:ALA:HB1	53:BU:79:LEU:CD1	2.44	0.47
1:AB:87:G:H3'	1:AB:88:C:C5'	2.44	0.47
2:AA:31:C:C2	2:AA:32:C:C6	3.02	0.47
2:AA:41:C:O2'	2:AA:43:G:H5'	2.13	0.47
2:AA:76:C:H4'	22:AW:55:ARG:HG3	1.95	0.47
2:AA:122:G:O2'	2:AA:123:G:H5'	2.14	0.47
2:AA:137:C:H5'	2:AA:137(A):G:OP2	2.13	0.47
2:AA:202:U:O2'	2:AA:203:C:O4'	2.29	0.47
2:AA:270(O):U:H5''	2:AA:270(P):C:C6	2.38	0.47
2:AA:278:A:C8	2:AA:278:A:C3'	2.97	0.47
2:AA:285:C:C2	2:AA:286:C:C4	3.02	0.47
2:AA:401:A:C4	2:AA:402:A:N7	2.82	0.47
2:AA:442:G:C2	6:AF:46:TYR:OH	2.59	0.47
2:AA:466:A:C2	2:AA:796:C:C1'	2.97	0.47
2:AA:480:A:N3	2:AA:499:U:O2'	2.31	0.47
2:AA:514:A:N3	2:AA:581:C:O2'	2.45	0.47
2:AA:533:G:N2	2:AA:560:C:C2	2.74	0.47
2:AA:534:U:C4'	25:A1:46:GLU:HG2	2.44	0.47
2:AA:618:G:C5	2:AA:618(A):C:C4	3.02	0.47
2:AA:652:C:C2'	2:AA:653:A:OP1	2.62	0.47
2:AA:684:G:N1	2:AA:794:G:N1	2.62	0.47
2:AA:831:G:N1	2:AA:832:G:C4	2.82	0.47
2:AA:873:G:O2'	21:AV:115:ILE:CD1	2.62	0.47
2:AA:929:G:O5'	2:AA:929:G:H8	1.96	0.47
2:AA:952:G:C6	2:AA:966:G:C6	3.02	0.47
2:AA:969:U:H4'	23:AX:14:GLY:CA	2.43	0.47
2:AA:1006:C:H2'	2:AA:1007:C:C6	2.49	0.47
2:AA:1054:A:C5	2:AA:1055:G:O6	2.67	0.47
2:AA:1069:A:H2	2:AA:1096:A:H5'	1.78	0.47
2:AA:1109:C:H5	2:AA:1110:G:C6	2.32	0.47
2:AA:1260:G:C6	2:AA:1261:C:C4	3.02	0.47
2:AA:1288:U:H4'	2:AA:1289:C:OP1	2.13	0.47
2:AA:1331:A:H2'	2:AA:1333:C:C5	2.49	0.47
2:AA:1413:G:H2'	2:AA:1414:G:H5'	1.96	0.47
2:AA:449(A):G:H2'	2:AA:1450:C:O5'	2.14	0.47
2:AA:1455:G:C2'	2:AA:1456:G:H5'	2.44	0.47
2:AA:1551:C:C2'	2:AA:1552:G:C8	2.89	0.47
2:AA:1563:G:C5	2:AA:1564:C:C5	3.02	0.47
2:AA:1606:G:H4'	2:AA:1608:A:N3	2.29	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1635:G:P	2:AA:1635:G:C8	3.07	0.47
2:AA:1670:C:H3'	2:AA:1671:U:C5	2.49	0.47
2:AA:1670:C:C4'	2:AA:1670:C:C6	2.97	0.47
2:AA:1729:A:C5	2:AA:1731:G:O6	2.67	0.47
2:AA:1777:U:C2	2:AA:1778:U:C5	3.01	0.47
2:AA:1823:G:O2'	2:AA:1824:G:C5'	2.62	0.47
2:AA:1827:C:H5'	2:AA:1971:A:H4'	1.95	0.47
2:AA:1916:A:H2'	2:AA:1917:U:N3	2.28	0.47
2:AA:1960:A:O2'	34:BA:1484:C:H4'	2.14	0.47
2:AA:2013:A:H3'	2:AA:2013:A:C8	2.49	0.47
2:AA:2053:G:N2	2:AA:2616:C:N3	2.51	0.47
2:AA:2199:A:C4	2:AA:2225:A:H2	2.28	0.47
2:AA:2246:G:O2'	2:AA:2247:A:C5'	2.63	0.47
2:AA:2285:C:C5	30:A6:28:ARG:NH2	2.64	0.47
2:AA:2303:G:N2	2:AA:2304:G:C4	2.82	0.47
2:AA:2316:C:O2'	7:AG:151:ILE:HD12	2.13	0.47
2:AA:2334:G:C1'	16:AQ:21:HIS:HD1	2.26	0.47
2:AA:2441:C:C2'	2:AA:2442:C:O5'	2.62	0.47
2:AA:2526:G:C4	2:AA:2527:C:C6	3.02	0.47
2:AA:2545:G:O2'	2:AA:2565:A:N1	2.41	0.47
2:AA:2569:G:C2	2:AA:2570:G:C8	3.02	0.47
2:AA:2742:C:C5'	33:A9:35:ARG:CZ	2.92	0.47
2:AA:2817:G:C4	2:AA:2818:G:C8	3.02	0.47
2:AA:2828:C:C2'	2:AA:2829:C:O5'	2.63	0.47
2:AA:2868:A:H8	2:AA:2868:A:O5'	1.97	0.47
3:AC:14:VAL:HG22	3:AC:28:LEU:CG	2.44	0.47
3:AC:75:LEU:HD11	3:AC:99:ILE:CG2	2.44	0.47
4:AD:166:LYS:HB2	4:AD:171:VAL:CA	2.38	0.47
4:AD:169:LYS:HZ3	4:AD:169:LYS:N	1.99	0.47
5:AE:44:TYR:O	5:AE:74:GLU:CD	2.57	0.47
5:AE:84:ARG:HB2	5:AE:174:LEU:CD2	2.44	0.47
6:AF:28:SER:O	6:AF:31:ILE:N	2.47	0.47
6:AF:45:ASP:O	6:AF:46:TYR:CD1	2.67	0.47
6:AF:154:VAL:O	6:AF:158:GLU:CD	2.56	0.47
6:AF:166:ILE:O	6:AF:168:ARG:CG	2.47	0.47
6:AF:219:ASN:O	6:AF:222:ASP:N	2.47	0.47
7:AG:21:VAL:HG23	7:AG:75:LEU:O	2.15	0.47
7:AG:47:GLN:NE2	7:AG:79:MET:HG3	2.28	0.47
7:AG:71:ALA:C	7:AG:72:LYS:CG	2.88	0.47
8:AH:83:GLU:CB	8:AH:133:LYS:HG2	2.34	0.47
8:AH:136:ASP:OD1	8:AH:136:ASP:N	2.47	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:110:GLU:OE1	9:AJ:57:THR:HG21	2.14	0.47
9:AJ:19:ALA:O	9:AJ:22:VAL:HB	2.14	0.47
10:AK:43:ASN:N	10:AK:43:ASN:HD22	2.10	0.47
12:AM:45:VAL:HG13	12:AM:131:THR:CA	2.43	0.47
14:AO:65:ASP:OD1	14:AO:65:ASP:N	2.47	0.47
14:AO:104:ASP:C	14:AO:105:TYR:CD2	2.92	0.47
15:AP:42:TYR:O	15:AP:125:TRP:CH2	2.65	0.47
15:AP:134:PHE:O	15:AP:135:ALA:C	2.57	0.47
16:AQ:86:LEU:HD22	16:AQ:124:ASP:HB2	1.95	0.47
17:AR:40:ALA:O	17:AR:41:ASP:C	2.54	0.47
18:AS:86:LEU:HB3	18:AS:87:PRO:CD	2.44	0.47
20:AU:49:GLU:CB	20:AU:97:ARG:HD2	2.38	0.47
20:AU:87:VAL:CG1	20:AU:88:PRO:CD	2.87	0.47
21:AV:21:ALA:C	21:AV:32:PHE:HB3	2.39	0.47
21:AV:94:VAL:HG21	21:AV:125:PRO:HD2	1.95	0.47
21:AV:159:THR:C	21:AV:160:LEU:CD1	2.87	0.47
22:AW:62:GLU:C	22:AW:64:GLY:N	2.67	0.47
23:AX:12:PRO:HG3	23:AX:20:LYS:HZ1	1.79	0.47
23:AX:39:ASP:CA	23:AX:44:ARG:NH2	2.75	0.47
24:A0:67:LEU:CD2	24:A0:72:ASP:N	2.70	0.47
25:A1:94:VAL:O	25:A1:98:ILE:HD13	2.14	0.47
25:A1:94:VAL:CG1	25:A1:98:ILE:HD13	2.44	0.47
29:A5:43:HIS:O	29:A5:44:HIS:ND1	2.47	0.47
30:A6:16:ALA:HB3	30:A6:19:GLY:HA3	1.96	0.47
34:BA:14:U:C4	34:BA:16:A:O5'	2.67	0.47
34:BA:15:G:H4'	40:BH:24:ARG:NH2	2.28	0.47
34:BA:253:U:OP2	34:BA:253:U:H3'	2.14	0.47
34:BA:330:C:O2'	34:BA:331:G:C5'	2.61	0.47
34:BA:405:U:O4	39:BG:2:GLY:N	2.48	0.47
34:BA:418:C:O2'	34:BA:540:G:H1'	2.14	0.47
34:BA:455:C:O2	34:BA:455:C:H2'	2.12	0.47
34:BA:738:C:C2	34:BA:739:C:C5	3.03	0.47
34:BA:784:C:N3	34:BA:785:G:N7	2.61	0.47
34:BA:786:G:C6	34:BA:797:C:N4	2.83	0.47
34:BA:880:C:C2	34:BA:881:G:C8	3.02	0.47
34:BA:967:C:C5	34:BA:968:A:H2'	2.49	0.47
34:BA:1195:C:H3'	34:BA:1195:C:P	2.54	0.47
34:BA:1203:C:O2'	34:BA:1204:A:C5'	2.60	0.47
34:BA:1205:U:O2'	38:BF:195:VAL:HG23	2.13	0.47
34:BA:1226:C:C6	48:BP:103:THR:O	2.68	0.47
34:BA:1234:C:C5'	34:BA:1364:U:O2'	2.61	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1274:G:C2'	34:BA:1275:A:H8	2.19	0.47
34:BA:1371:G:C2'	34:BA:1372:U:O5'	2.62	0.47
34:BA:1413:A:C2	34:BA:1414:U:N1	2.82	0.47
34:BA:1431:C:O2	34:BA:1431:C:C2'	2.61	0.47
34:BA:1433:A:H2'	34:BA:1434:A:H5'	1.95	0.47
34:BA:1465:C:H2'	34:BA:1466:C:O5'	2.15	0.47
35:BB:56:C:C6	35:BB:56:C:O5'	2.65	0.47
35:BC:19:G:C2	35:BC:57:G:N2	2.83	0.47
35:BC:27:C:N3	35:BC:28:C:N4	2.61	0.47
37:BE:120:ALA:O	37:BE:121:LEU:C	2.58	0.47
37:BE:196:LEU:HD12	37:BE:197:VAL:HA	1.96	0.47
37:BE:208:ILE:O	37:BE:211:ILE:HB	2.14	0.47
38:BF:17:ASP:O	38:BF:18:TRP:C	2.57	0.47
41:BI:52:ILE:O	41:BI:53:ALA:HB3	2.14	0.47
42:BJ:4:ARG:O	42:BJ:5:ARG:O	2.32	0.47
42:BJ:42:ILE:CG2	42:BJ:120:ILE:HD11	2.41	0.47
43:BK:16:ALA:HB1	43:BK:21:LYS:HB2	1.96	0.47
43:BK:44:PHE:O	43:BK:64:LYS:CD	2.63	0.47
43:BK:70:GLN:HE21	43:BK:70:GLN:HA	1.78	0.47
43:BK:98:LYS:HZ2	43:BK:98:LYS:C	2.22	0.47
43:BK:103:VAL:HG11	43:BK:109:ILE:O	2.14	0.47
44:BL:15:ALA:CB	44:BL:76:ALA:C	2.87	0.47
44:BL:30:GLY:O	44:BL:31:GLN:OE1	2.32	0.47
44:BL:50:LEU:O	44:BL:51:ARG:C	2.55	0.47
45:BM:24:VAL:O	45:BM:28:ARG:CD	2.62	0.47
46:BN:51:LYS:O	46:BN:52:GLY:C	2.55	0.47
47:BO:27:LEU:C	47:BO:29:GLY:H	2.14	0.47
47:BO:47:LYS:HB2	47:BO:48:PRO:HD3	1.95	0.47
48:BP:9:ILE:O	48:BP:11:ARG:N	2.47	0.47
48:BP:23:TYR:O	48:BP:66:LEU:HB2	2.13	0.47
48:BP:51:ALA:O	48:BP:55:ARG:HG3	2.14	0.47
48:BP:69:GLU:HA	48:BP:72:ALA:HB2	1.95	0.47
52:BT:54:GLY:O	52:BT:55:ASP:C	2.57	0.47
53:BU:60:GLY:O	53:BU:62:GLU:N	2.47	0.47
55:BW:11:SER:HA	55:BW:13:LEU:HD13	1.96	0.47
1:AB:82:G:HO2'	1:AB:83:G:C4'	2.27	0.47
1:AB:100:G:H8	1:AB:100:G:O5'	1.96	0.47
1:AB:105:G:H2'	1:AB:106:G:C8	2.48	0.47
2:AA:17:G:O3'	25:A1:26:GLY:HA3	2.14	0.47
2:AA:27:G:C8	2:AA:27:G:C3'	2.96	0.47
2:AA:64:A:C2	2:AA:65:C:C2	3.02	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:118:A:H2'	2:AA:177:G:H21	1.78	0.47
2:AA:203:C:OP2	2:AA:203:C:C6	2.67	0.47
2:AA:336:C:H2'	2:AA:337:C:C5'	2.44	0.47
2:AA:388:G:OP2	28:A4:29:PRO:CB	2.61	0.47
2:AA:412:A:N3	2:AA:413:C:C1'	2.76	0.47
2:AA:432:A:O2'	2:AA:433:C:H5'	2.13	0.47
2:AA:452:G:N2	2:AA:458:G:C2	2.83	0.47
2:AA:458:G:C5'	31:A7:39:ARG:HD2	2.44	0.47
2:AA:527:C:H5	2:AA:2779:U:H3'	1.79	0.47
2:AA:580:C:O5'	2:AA:580:C:H6	1.98	0.47
2:AA:776:G:C2	2:AA:793:A:N7	2.82	0.47
2:AA:819:A:H62	2:AA:1188:U:H3	1.62	0.47
2:AA:879:G:N2	2:AA:880:G:H1'	2.29	0.47
2:AA:941:A:C2	2:AA:942:G:C1'	2.97	0.47
2:AA:946:G:C8	2:AA:946:G:C3'	2.98	0.47
2:AA:974:G:P	2:AA:1188:U:C5	3.07	0.47
2:AA:1034:G:O5'	33:A9:18:ARG:CZ	2.63	0.47
2:AA:1054:A:C6	2:AA:1055:G:O6	2.66	0.47
2:AA:1062:G:H22	11:AL:92:PRO:CG	2.25	0.47
2:AA:1111:A:H8	2:AA:1111:A:O5'	1.97	0.47
2:AA:1156:A:H2	25:A1:51:ARG:HH21	1.59	0.47
2:AA:1193:G:H2'	2:AA:1194:A:H5'	1.95	0.47
2:AA:1270:C:C4'	2:AA:1271:G:C5'	2.64	0.47
2:AA:1346:G:H2'	2:AA:1347:G:H8	1.79	0.47
2:AA:1424:G:C2'	2:AA:1425:G:O5'	2.61	0.47
2:AA:1474:C:H2'	2:AA:1475:G:N7	2.29	0.47
2:AA:1479:G:N1	2:AA:1514:U:N3	2.60	0.47
2:AA:1518:C:O2	2:AA:1519:G:H1'	2.14	0.47
2:AA:1571:A:H2'	2:AA:1572:A:OP2	2.14	0.47
2:AA:1605:C:H3'	2:AA:1606:G:H8	1.79	0.47
2:AA:1612:C:N3	31:A7:3:ARG:NH1	2.63	0.47
2:AA:1630:G:H1	2:AA:1636:C:N4	2.12	0.47
2:AA:1648:C:C2	2:AA:1649:G:N7	2.83	0.47
2:AA:1701:A:C2'	2:AA:1702:G:C5'	2.88	0.47
2:AA:1708:C:H42	2:AA:1750:G:H1	1.62	0.47
2:AA:1771:C:C2'	2:AA:1772:G:O5'	2.62	0.47
2:AA:1815:A:O2'	2:AA:1816:G:C4'	2.63	0.47
2:AA:1820:U:O2'	2:AA:1821:A:OP2	2.31	0.47
2:AA:1827:C:O2	2:AA:1828:G:C4'	2.62	0.47
2:AA:1864:U:C2'	2:AA:1869:G:C5'	2.83	0.47
2:AA:1915:U:O2	2:AA:1915:U:C2'	2.62	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1916:A:H8	2:AA:1916:A:OP2	1.97	0.47
2:AA:2103:C:H2'	2:AA:2104:G:C8	2.36	0.47
2:AA:2151:G:N1	2:AA:2152:G:C2	2.82	0.47
2:AA:2188:C:H5''	2:AA:2189:U:OP2	2.14	0.47
2:AA:2193:G:C6	2:AA:2194:G:N7	2.82	0.47
2:AA:2195:C:C5'	2:AA:2195:C:H6	2.27	0.47
2:AA:2206:C:H2'	2:AA:2207:C:C6	2.49	0.47
2:AA:2231:C:C2'	2:AA:2232:U:H6	2.09	0.47
2:AA:2259:G:O4'	2:AA:2427:C:C6	2.66	0.47
2:AA:2266:A:H5'	2:AA:2267:A:C5	2.49	0.47
2:AA:2287:A:C4	2:AA:2289:G:C8	3.02	0.47
2:AA:2349:G:C6	2:AA:2350:C:C6	3.02	0.47
2:AA:2415:G:H2'	2:AA:2415:G:N3	2.30	0.47
2:AA:2506:U:HO2'	2:AA:2507:C:H5'	1.77	0.47
2:AA:2589:A:C6	2:AA:2590:A:C5	3.02	0.47
2:AA:2645:G:O2'	2:AA:2733:A:P	2.72	0.47
2:AA:2657:A:C8	2:AA:2658:C:C6	3.02	0.47
2:AA:2694:G:H2'	2:AA:2695:C:C5'	2.44	0.47
2:AA:2707:G:H21	2:AA:2708:G:H1'	1.78	0.47
2:AA:2759:G:C2	2:AA:2760:C:C4	3.02	0.47
2:AA:2795:G:HO2'	2:AA:2797:U:H6	1.56	0.47
2:AA:2888:C:C2	2:AA:2889:C:C6	3.03	0.47
5:AE:40:GLY:C	5:AE:41:PHE:CG	2.92	0.47
5:AE:105:HIS:CE1	5:AE:108:LEU:HD21	2.49	0.47
5:AE:216:ARG:NH1	5:AE:253:GLN:C	2.72	0.47
5:AE:226:HIS:ND1	5:AE:226:HIS:N	2.62	0.47
5:AE:270:ASP:O	5:AE:271:ILE:HG13	2.14	0.47
7:AG:14:ARG:H	7:AG:14:ARG:CD	2.25	0.47
7:AG:88:LEU:N	7:AG:89:PRO:CD	2.74	0.47
8:AH:36:PHE:CD2	8:AH:71:LEU:CD2	2.97	0.47
8:AH:41:THR:CG2	8:AH:52:THR:HG21	2.39	0.47
8:AH:87:GLU:OE2	8:AH:162:ARG:HD2	2.14	0.47
8:AH:107:GLY:O	8:AH:109:SER:N	2.39	0.47
12:AM:4:ALA:HA	12:AM:109:TYR:OH	2.13	0.47
12:AM:14:ALA:O	12:AM:15:ARG:CG	2.62	0.47
12:AM:54:VAL:O	12:AM:55:GLU:C	2.56	0.47
13:AN:114:ILE:O	13:AN:115:ILE:C	2.56	0.47
14:AO:71:GLU:O	14:AO:72:ASN:C	2.56	0.47
15:AP:48:ASN:OD1	15:AP:121:ASP:CB	2.61	0.47
15:AP:49:VAL:HG23	15:AP:121:ASP:H	1.78	0.47
15:AP:51:GLU:OE2	15:AP:148:ASN:HB2	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:57:ARG:HB3	15:AP:60:ALA:HB2	1.96	0.47
15:AP:98:GLY:CA	35:BC:1:G:O2'	2.62	0.47
15:AP:121:ASP:OD2	15:AP:122:PHE:CE2	2.67	0.47
16:AQ:90:LEU:CD2	16:AQ:93:GLN:NE2	2.78	0.47
18:AS:18:ARG:CG	18:AS:76:VAL:HG12	2.43	0.47
18:AS:59:VAL:CG2	18:AS:63:ASP:O	2.63	0.47
18:AS:69:LEU:HD23	18:AS:109:GLU:CA	2.43	0.47
19:AT:53:ASN:O	19:AT:54:THR:CG2	2.62	0.47
19:AT:73:ASP:O	19:AT:75:GLN:OE1	2.32	0.47
21:AV:175:ARG:O	21:AV:176:LEU:HB2	2.14	0.47
23:AX:3:ARG:O	23:AX:59:VAL:O	2.32	0.47
24:A0:20:LEU:HD13	24:A0:21:TYR:N	2.30	0.47
24:A0:29:LEU:HD22	24:A0:29:LEU:N	2.28	0.47
24:A0:76:VAL:HG12	24:A0:77:ARG:CG	2.44	0.47
24:A0:79:LEU:CD2	24:A0:80:PHE:HA	2.32	0.47
24:A0:83:ILE:O	24:A0:86:ARG:N	2.47	0.47
25:A1:107:LYS:O	25:A1:111:ASP:OD1	2.32	0.47
26:A2:61:VAL:CG1	26:A2:95:ILE:CG2	2.87	0.47
26:A2:72:ARG:O	26:A2:88:GLN:NE2	2.35	0.47
26:A2:90:PHE:CD1	26:A2:90:PHE:N	2.80	0.47
27:A3:11:LYS:O	27:A3:12:ASN:O	2.32	0.47
27:A3:28:GLY:HA3	27:A3:60:PHE:CB	2.39	0.47
28:A4:5:LEU:O	28:A4:7:PRO:HD2	2.14	0.47
28:A4:63:PHE:O	28:A4:66:SER:N	2.48	0.47
29:A5:51:TYR:O	29:A5:52:TYR:HB2	2.13	0.47
31:A7:11:LYS:O	31:A7:14:LYS:N	2.47	0.47
32:A8:26:LYS:CD	32:A8:43:GLY:C	2.75	0.47
34:BA:38:G:C6	34:BA:397:A:C2	3.02	0.47
34:BA:55:A:C2'	34:BA:56:U:H5'	2.44	0.47
34:BA:190(C):C:N3	34:BA:190(D):U:O2	2.46	0.47
34:BA:253:U:C4	34:BA:273:A:N1	2.81	0.47
34:BA:265:G:HO2'	34:BA:266:G:H5'	1.80	0.47
34:BA:306:G:C4	34:BA:307:C:C6	3.01	0.47
34:BA:373:A:N1	34:BA:482:A:N6	2.62	0.47
34:BA:528:C:H4'	34:BA:535:A:N6	2.29	0.47
34:BA:544:G:N3	34:BA:545:C:C6	2.82	0.47
34:BA:667:G:H2'	34:BA:668:G:C8	2.48	0.47
34:BA:922:G:C5'	40:BH:19:MET:O	2.58	0.47
34:BA:1160:G:N1	34:BA:1161:C:C5	2.83	0.47
34:BA:1223:C:C5'	34:BA:1224:G:H5''	2.44	0.47
34:BA:1288:A:C5	34:BA:1289:A:N7	2.82	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1310:G:C6	34:BA:1328:C:N4	2.82	0.47
34:BA:1326:C:OP2	56:BX:6:ARG:NE	2.47	0.47
34:BA:1371:G:H5''	44:BL:68:GLY:HA2	1.96	0.47
34:BA:1426:C:N3	34:BA:1427:U:C4	2.82	0.47
34:BA:1524:C:N3	34:BA:1525:G:N7	2.62	0.47
35:BB:11:C:H42	35:BB:23:A:H61	1.63	0.47
35:BB:49:C:O4'	35:BB:49:C:OP2	2.32	0.47
37:BE:54:THR:HG23	37:BE:199:TYR:HB3	1.95	0.47
37:BE:223:ILE:C	37:BE:226:ARG:HB2	2.39	0.47
38:BF:15:THR:HG21	38:BF:181:ASN:CB	2.43	0.47
39:BG:20:TYR:O	39:BG:31:CYS:SG	2.72	0.47
39:BG:126:ILE:HB	39:BG:132:ARG:HB2	1.97	0.47
39:BG:140:VAL:HG11	39:BG:185:PHE:HB2	1.96	0.47
39:BG:152:SER:O	39:BG:158:ILE:CG1	2.61	0.47
40:BH:72:GLN:O	40:BH:73:ASN:HB2	2.14	0.47
40:BH:84:PHE:HB3	40:BH:87:SER:O	2.14	0.47
42:BJ:22:LEU:HD21	42:BJ:66:VAL:HG21	1.97	0.47
42:BJ:100:ALA:O	42:BJ:103:TRP:HB2	2.14	0.47
43:BK:44:PHE:CZ	43:BK:109:ILE:HG21	2.48	0.47
43:BK:82:HIS:NE2	43:BK:84:ARG:HB3	2.30	0.47
43:BK:89:PRO:CA	43:BK:92:ARG:NH2	2.77	0.47
43:BK:92:ARG:HB3	43:BK:94:TYR:CE1	2.49	0.47
44:BL:11:LYS:HZ2	44:BL:108:VAL:HG11	1.79	0.47
44:BL:47:LEU:CD2	44:BL:50:LEU:HB2	2.41	0.47
44:BL:78:LYS:CD	44:BL:101:PHE:HE2	2.26	0.47
46:BN:59:TYR:O	46:BN:62:GLN:HB3	2.14	0.47
46:BN:60:ALA:C	46:BN:62:GLN:N	2.70	0.47
47:BO:104:VAL:O	47:BO:104:VAL:HG12	2.13	0.47
48:BP:77:ASN:HA	48:BP:80:ARG:CD	2.43	0.47
49:BQ:17:LYS:HG3	49:BQ:18:VAL:HG13	1.96	0.47
50:BR:41:GLU:CA	50:BR:44:LYS:HZ1	2.27	0.47
51:BS:51:VAL:O	51:BS:51:VAL:HG12	2.14	0.47
53:BU:60:GLY:C	53:BU:62:GLU:N	2.67	0.47
53:BU:78:LEU:C	53:BU:79:LEU:CD1	2.87	0.47
54:BV:66:MET:HA	54:BV:69:HIS:CD2	2.50	0.47
54:BV:74:PHE:N	54:BV:74:PHE:CD1	2.82	0.47
55:BW:23:ARG:C	55:BW:26:ASN:ND2	2.49	0.47
55:BW:62:LEU:O	55:BW:63:ILE:C	2.56	0.47
1:AB:32:C:C3'	1:AB:33:G:H8	2.27	0.47
1:AB:77:U:H2'	1:AB:78:A:H8	1.76	0.47
1:AB:79:C:C2'	1:AB:80:U:H5'	2.44	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:83:G:C5'	23:AX:52:HIS:CD2	2.98	0.47
2:AA:71:A:P	2:AA:112:U:H2'	2.55	0.47
2:AA:128:C:O2'	2:AA:129:C:O5'	2.32	0.47
2:AA:143:C:C2	2:AA:143:C:OP2	2.67	0.47
2:AA:154:G:N7	2:AA:173:G:N1	2.62	0.47
2:AA:234:C:H42	2:AA:430:G:H21	1.59	0.47
2:AA:240:G:OP1	2:AA:623:G:H5'	2.15	0.47
2:AA:458:G:C2'	2:AA:469:G:C6	2.96	0.47
2:AA:717:G:N1	2:AA:718:A:C4	2.82	0.47
2:AA:967:C:H2'	2:AA:968:G:H8	1.80	0.47
2:AA:1019:U:P	2:AA:1120:G:H22	2.36	0.47
2:AA:1024:G:H8	2:AA:1025:G:H5''	1.79	0.47
2:AA:1050:A:N1	2:AA:2751:G:C5	2.82	0.47
2:AA:1054:A:N6	2:AA:1104:C:H42	2.11	0.47
2:AA:1066:U:N3	2:AA:1069:A:OP1	2.47	0.47
2:AA:1163:G:N2	2:AA:1164:G:C8	2.82	0.47
2:AA:1168:G:C2	2:AA:1182:A:C2	3.02	0.47
2:AA:1199:U:OP2	2:AA:1199:U:O4'	2.33	0.47
2:AA:1255:U:H3	6:AF:66:GLY:HA2	1.80	0.47
2:AA:1301:A:C3'	2:AA:1607:C:H41	2.26	0.47
2:AA:1353:A:N6	2:AA:1354:A:H62	2.13	0.47
2:AA:1478:G:O2'	2:AA:1479:G:C5'	2.62	0.47
2:AA:1638:C:OP1	2:AA:2710:C:O2'	2.33	0.47
2:AA:1664:A:C8	2:AA:1664:A:P	3.07	0.47
2:AA:1670:C:C6	2:AA:1671:U:C5	3.02	0.47
2:AA:1672:C:O2'	2:AA:1673:U:P	2.73	0.47
2:AA:1794:U:C2	2:AA:1825:A:N1	2.82	0.47
2:AA:1805:U:OP2	2:AA:1805:U:C6	2.53	0.47
2:AA:1806:C:C2	2:AA:1807:G:C8	3.03	0.47
2:AA:1809:A:O2'	2:AA:1810:A:C5'	2.57	0.47
2:AA:1946:U:C2	2:AA:1947:C:C6	3.02	0.47
2:AA:2105:C:N3	2:AA:2106:G:N7	2.62	0.47
2:AA:2236:C:C5	2:AA:2237:G:C5	3.02	0.47
2:AA:2244:U:H2'	2:AA:2245:U:O5'	2.14	0.47
2:AA:2450:A:H2	2:AA:2451:A:H1'	1.80	0.47
2:AA:2568:C:O2'	2:AA:2569:G:H5'	2.13	0.47
2:AA:2579:C:H5''	2:AA:2579:C:H6	1.78	0.47
2:AA:2580:U:H5''	2:AA:2581:G:OP2	2.15	0.47
2:AA:2605:U:C2	2:AA:2606:C:H5	2.33	0.47
2:AA:2645:G:C4'	2:AA:2732:G:O2'	2.55	0.47
2:AA:2795:G:H3'	2:AA:2795:G:P	2.54	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2815:C:O2'	29:A5:43:HIS:CE1	2.68	0.47
3:AC:5:LYS:NZ	3:AC:8:ARG:CB	2.71	0.47
3:AC:43:VAL:O	3:AC:172:HIS:HA	2.14	0.47
3:AC:62:VAL:HB	3:AC:163:PHE:CE2	2.47	0.47
3:AC:214:VAL:CG2	3:AC:224:ILE:CD1	2.91	0.47
4:AD:130:PRO:HB2	4:AD:132:GLU:CB	2.45	0.47
4:AD:134:ILE:HG23	4:AD:163:VAL:HG21	1.97	0.47
5:AE:202:ALA:O	5:AE:309:PRO:HA	2.14	0.47
6:AF:22:PHE:HZ	6:AF:115:LEU:HD12	1.79	0.47
6:AF:52:ALA:HA	6:AF:55:ARG:HH21	1.80	0.47
6:AF:140:VAL:HB	6:AF:235:PHE:C	2.39	0.47
6:AF:167:ASP:C	6:AF:168:ARG:HG3	2.40	0.47
6:AF:240:LEU:O	6:AF:243:VAL:CA	2.63	0.47
8:AH:168:VAL:CG1	8:AH:169:ARG:H	2.14	0.47
9:AJ:53:GLN:HA	9:AJ:128:LYS:HZ3	1.78	0.47
11:AL:55:PRO:CD	11:AL:73:PRO:HA	2.44	0.47
12:AM:53:ILE:HG22	12:AM:54:VAL:N	2.28	0.47
14:AO:59:GLU:C	14:AO:60:GLU:HG3	2.39	0.47
15:AP:45:GLN:OE1	15:AP:153:PRO:HD2	2.14	0.47
16:AQ:74:PRO:HG3	16:AQ:114:LYS:CE	2.40	0.47
18:AS:14:PRO:HG3	18:AS:101:SER:OG	2.13	0.47
20:AU:42:VAL:CG1	20:AU:43:ASN:N	2.58	0.47
20:AU:43:ASN:ND2	20:AU:101:LEU:CD2	2.77	0.47
20:AU:55:PHE:CD1	20:AU:89:ARG:NH1	2.82	0.47
22:AW:12:THR:C	22:AW:16:ARG:NE	2.72	0.47
22:AW:30:ALA:O	22:AW:34:GLN:N	2.47	0.47
22:AW:62:GLU:CD	22:AW:62:GLU:H	2.19	0.47
24:A0:74:LYS:HE2	24:A0:74:LYS:HB2	1.62	0.47
25:A1:43:ALA:CA	25:A1:46:GLU:OE2	2.59	0.47
25:A1:65:ILE:HG12	25:A1:96:ALA:HB2	1.96	0.47
25:A1:99:ALA:HB2	25:A1:106:PHE:CG	2.49	0.47
26:A2:7:THR:N	26:A2:9:GLY:O	2.44	0.47
26:A2:22:VAL:CG1	26:A2:23:GLU:H	2.27	0.47
26:A2:31:ASP:O	26:A2:32:LYS:C	2.57	0.47
27:A3:4:LYS:HZ3	27:A3:11:LYS:NZ	2.11	0.47
27:A3:69:PHE:C	27:A3:70:ILE:HG12	2.37	0.47
28:A4:16:TYR:CE1	28:A4:37:SER:OG	2.61	0.47
29:A5:45:ILE:HG23	29:A5:52:TYR:HD1	1.77	0.47
30:A6:46:LYS:HB2	30:A6:47:HIS:ND1	2.30	0.47
34:BA:11:G:N2	34:BA:24:U:C6	2.82	0.47
34:BA:22:G:C4'	34:BA:885:G:C1'	2.93	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:108:G:OP1	34:BA:326:G:N2	2.48	0.47
34:BA:120:A:C8	34:BA:120:A:O5'	2.67	0.47
34:BA:160:A:H62	34:BA:161:A:N6	2.12	0.47
34:BA:162:A:C3'	34:BA:163:C:H5'	2.43	0.47
34:BA:176:C:C2	34:BA:177:C:C6	3.03	0.47
34:BA:218:C:H5'	34:BA:461:C:N4	2.30	0.47
34:BA:228:A:C2'	34:BA:229:U:C5'	2.91	0.47
34:BA:258:G:C2	34:BA:259:G:C8	3.01	0.47
34:BA:279:A:H1'	34:BA:281:G:N2	2.24	0.47
34:BA:299:G:N2	34:BA:300:A:C2	2.82	0.47
34:BA:323:U:H4'	55:BW:22:ARG:HB2	1.96	0.47
34:BA:398:C:O2'	34:BA:399:G:H5'	2.15	0.47
34:BA:551:U:H5'	47:BO:119:LYS:HE3	1.94	0.47
34:BA:621:A:C6	34:BA:622:A:N6	2.82	0.47
34:BA:717:C:H2'	34:BA:734:G:H5'	1.95	0.47
34:BA:763:G:O2'	34:BA:764:C:C5'	2.62	0.47
34:BA:783:C:O2'	34:BA:784:C:H5'	2.12	0.47
34:BA:803:G:C6	34:BA:804:U:C2	3.02	0.47
34:BA:819:A:C5'	34:BA:820:U:OP2	2.62	0.47
34:BA:824:C:C1'	43:BK:1:MET:N	2.78	0.47
34:BA:908:A:N1	34:BA:909:A:N6	2.63	0.47
34:BA:1048:G:N1	34:BA:1209:C:N4	2.26	0.47
34:BA:1134:G:C2	34:BA:1141:C:C4	3.02	0.47
34:BA:1226:C:H2'	48:BP:104:ARG:O	2.15	0.47
34:BA:1256:A:C2	34:BA:1258:G:C2	3.02	0.47
34:BA:1316:G:H8	34:BA:1316:G:P	2.36	0.47
34:BA:1323:G:O2'	34:BA:1324:A:H5'	2.15	0.47
34:BA:1376:U:O5'	34:BA:1376:U:H6	1.97	0.47
34:BA:1433:A:C6	34:BA:1434:A:C4	3.02	0.47
35:BB:1:G:N3	35:BB:1:G:H2'	2.28	0.47
35:BC:34:G:N2	36:B1:62:G:N1	2.59	0.47
35:BC:63:C:O2'	35:BC:64:A:O5'	2.32	0.47
36:B1:69:A:N3	36:B1:69:A:C3'	2.77	0.47
38:BF:38:ARG:HG3	38:BF:38:ARG:HH11	1.79	0.47
38:BF:182:ILE:CA	38:BF:204:LEU:HG	2.42	0.47
39:BG:52:SER:O	39:BG:54:TYR:N	2.47	0.47
39:BG:63:LYS:O	39:BG:64:LEU:C	2.57	0.47
39:BG:120:LEU:O	39:BG:121:VAL:C	2.58	0.47
41:BI:10:LEU:N	41:BI:10:LEU:CD1	2.73	0.47
41:BI:15:ASP:N	41:BI:18:GLN:NE2	2.62	0.47
41:BI:28:ARG:CG	41:BI:28:ARG:NH1	2.74	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:26:VAL:HG13	43:BK:27:PRO:CD	2.44	0.47
45:BM:8:LEU:HD22	45:BM:94:VAL:HG11	1.94	0.47
46:BN:27:ASN:OD1	46:BN:45:GLY:HA3	2.14	0.47
46:BN:48:ILE:HD13	46:BN:63:LEU:HB3	1.96	0.47
47:BO:93:LEU:O	47:BO:93:LEU:HG	2.14	0.47
48:BP:90:LEU:O	48:BP:93:ARG:N	2.47	0.47
49:BQ:14:PRO:CG	49:BQ:17:LYS:HA	2.44	0.47
49:BQ:26:ARG:HH11	49:BQ:47:LEU:HG	1.79	0.47
51:BS:8:ARG:CG	51:BS:15:PRO:HB3	2.44	0.47
52:BT:74:LEU:O	52:BT:74:LEU:HD22	2.14	0.47
53:BU:33:ASP:O	53:BU:34:TYR:C	2.57	0.47
53:BU:67:ALA:HA	53:BU:70:ILE:HG13	1.95	0.47
53:BU:76:LEU:H	53:BU:76:LEU:CD2	2.26	0.47
53:BU:82:THR:O	53:BU:83:GLU:CB	2.62	0.47
55:BW:45:GLN:NE2	55:BW:91:LEU:HD21	2.28	0.47
55:BW:79:ARG:HH11	55:BW:79:ARG:CG	2.27	0.47
56:BX:9:ARG:C	56:BX:11:GLY:N	2.70	0.47
56:BX:12:LYS:HD2	56:BX:12:LYS:N	2.29	0.47
1:AB:27:C:N3	1:AB:28:C:C2	2.82	0.47
2:AA:36:G:N3	2:AA:450:G:O2'	2.39	0.47
2:AA:38:A:C4	2:AA:39:C:C5	3.03	0.47
2:AA:48:G:H1'	2:AA:178:G:N2	2.30	0.47
2:AA:69:C:H6	2:AA:69:C:OP2	1.96	0.47
2:AA:80:G:H2'	2:AA:81:G:H5'	1.96	0.47
2:AA:83:G:C6	2:AA:102:G:C2'	2.95	0.47
2:AA:84:A:H2	2:AA:102:G:HO2'	1.62	0.47
2:AA:178:G:C6	2:AA:179:G:N7	2.82	0.47
2:AA:242:G:C2	2:AA:254:G:N7	2.82	0.47
2:AA:270(J):G:C6	2:AA:270(K):C:C4	3.02	0.47
2:AA:270(R):G:H2'	2:AA:270(R):G:N3	2.28	0.47
2:AA:280:C:HO2'	2:AA:281:G:H3'	1.79	0.47
2:AA:326:G:C2'	2:AA:327:G:O5'	2.63	0.47
2:AA:387:U:O3'	28:A4:23:GLU:CD	2.57	0.47
2:AA:426:C:H2'	2:AA:427:U:C5'	2.44	0.47
2:AA:443:A:H1'	2:AA:1201:C:C5'	2.43	0.47
2:AA:489:G:N2	2:AA:491:G:C4	2.82	0.47
2:AA:697:C:P	2:AA:1555:G:H22	2.38	0.47
2:AA:753:C:H2'	2:AA:754:C:H6	1.79	0.47
2:AA:774:A:O2'	2:AA:775:G:O5'	2.25	0.47
2:AA:782:A:C5'	2:AA:783:A:OP1	2.58	0.47
2:AA:823:G:N3	2:AA:824:A:N7	2.63	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:850:C:H2'	2:AA:851:U:C6	2.49	0.47
2:AA:852:G:C2'	2:AA:853:G:O5'	2.63	0.47
2:AA:901:A:N7	2:AA:902:C:N4	2.62	0.47
2:AA:910:A:O2'	2:AA:911:A:H5'	2.14	0.47
2:AA:967:C:H2'	2:AA:968:G:C8	2.49	0.47
2:AA:969:U:H6	2:AA:969:U:O5'	1.97	0.47
2:AA:992:C:H2'	2:AA:993:G:H5''	1.96	0.47
2:AA:1006:C:H2'	2:AA:1006:C:O2	2.13	0.47
2:AA:1041:C:C5	2:AA:1042:G:N7	2.82	0.47
2:AA:1057:A:C2	2:AA:1058:G:N7	2.83	0.47
2:AA:1179:C:O2'	2:AA:1180:C:C6	2.58	0.47
2:AA:1189:A:OP2	2:AA:1190:G:N7	2.48	0.47
2:AA:1223:C:N4	2:AA:1227:A:H61	2.12	0.47
2:AA:1271:G:C8	2:AA:1271:G:C3'	2.97	0.47
2:AA:1317:A:C8	2:AA:1317:A:C3'	2.98	0.47
2:AA:1344:G:C6	2:AA:1385:G:C8	3.03	0.47
2:AA:1475:G:H21	2:AA:1476:C:C5'	2.28	0.47
2:AA:1582:C:C2	2:AA:1583:A:N3	2.83	0.47
2:AA:1625:C:H2'	2:AA:1626:G:H4'	1.85	0.47
2:AA:1637:A:C2	2:AA:1638:C:N3	2.82	0.47
2:AA:1799:G:C6	4:AD:177:SER:CB	2.89	0.47
2:AA:1818:U:O4	4:AD:66:PHE:CE1	2.66	0.47
2:AA:1855:G:O5'	2:AA:1855:G:C8	2.57	0.47
2:AA:1904:G:C2'	2:AA:1905:C:O5'	2.63	0.47
2:AA:1926:U:C5	2:AA:1928:A:OP2	2.68	0.47
2:AA:1955:U:C2'	2:AA:1956:U:OP1	2.61	0.47
2:AA:2026:C:O2	2:AA:2026:C:H2'	2.15	0.47
2:AA:2067:G:C5'	2:AA:2068:U:OP2	2.59	0.47
2:AA:2207:C:O2'	2:AA:2208:U:H5''	2.14	0.47
2:AA:2256:G:C2	2:AA:2257:U:C2	3.03	0.47
2:AA:2259:G:H2'	2:AA:2260:C:C6	2.49	0.47
2:AA:2283:C:C6	2:AA:2389:G:N3	2.82	0.47
2:AA:2295:C:C6	2:AA:2338:G:N2	2.83	0.47
2:AA:2470:G:O6	2:AA:2481:G:N2	2.47	0.47
2:AA:2473:U:O2	2:AA:2473:U:C2'	2.63	0.47
2:AA:2478:A:N7	2:AA:2479:G:C8	2.83	0.47
2:AA:2551:C:H2'	2:AA:2552:U:O4'	2.15	0.47
2:AA:2595:G:H1'	2:AA:2599:G:N2	2.23	0.47
2:AA:2756:U:N3	2:AA:2758:A:N6	2.62	0.47
2:AA:2825:C:N3	2:AA:2826:A:C8	2.82	0.47
2:AA:2866:U:O2	2:AA:2868:A:C4'	2.61	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:29:VAL:HG11	3:AC:41:VAL:HG21	1.96	0.47
3:AC:73:ARG:NE	3:AC:111:ASP:OD2	2.47	0.47
3:AC:127:LEU:HD22	3:AC:130:ILE:CG2	2.41	0.47
5:AE:310:PHE:N	5:AE:310:PHE:CD1	2.81	0.47
6:AF:151:GLN:O	6:AF:154:VAL:CB	2.63	0.47
7:AG:19:GLU:CD	7:AG:135:VAL:CG1	2.87	0.47
8:AH:27:GLY:O	8:AH:30:GLY:C	2.58	0.47
10:AK:13:GLY:C	10:AK:15:LYS:H	2.22	0.47
10:AK:25:TYR:CA	10:AK:29:PHE:CE1	2.97	0.47
10:AK:79:ILE:HB	10:AK:145:VAL:CG2	2.32	0.47
11:AL:132:ALA:HB1	11:AL:137:ILE:HB	1.97	0.47
12:AM:44:ALA:O	12:AM:132:LEU:N	2.47	0.47
12:AM:58:GLU:CB	12:AM:61:VAL:HB	2.44	0.47
12:AM:66:ASP:C	12:AM:68:GLY:N	2.73	0.47
12:AM:87:LEU:CB	12:AM:98:PHE:CE1	2.98	0.47
12:AM:108:PRO:CD	12:AM:109:TYR:H	2.28	0.47
13:AN:46:ALA:H	13:AN:54:LYS:HE2	1.80	0.47
15:AP:60:ALA:O	15:AP:61:LEU:C	2.57	0.47
16:AQ:41:LYS:HD3	16:AQ:41:LYS:O	2.15	0.47
20:AU:30:ASP:C	20:AU:34:GLU:OE2	2.58	0.47
20:AU:48:VAL:HG13	20:AU:97:ARG:N	2.29	0.47
21:AV:7:PRO:HG2	21:AV:9:THR:OG1	2.15	0.47
21:AV:62:PHE:O	21:AV:85:MET:SD	2.72	0.47
21:AV:88:TYR:O	21:AV:91:PRO:HD3	2.15	0.47
21:AV:98:VAL:CG2	21:AV:134:LEU:HD22	2.44	0.47
22:AW:51:LYS:C	22:AW:55:ARG:NE	2.73	0.47
23:AX:40:THR:CG2	23:AX:43:ILE:HG12	2.44	0.47
23:AX:52:HIS:C	23:AX:54:VAL:N	2.72	0.47
24:A0:87:TYR:N	24:A0:87:TYR:CD2	2.80	0.47
24:A0:92:GLY:HA2	24:A0:94:TYR:CE1	2.49	0.47
25:A1:20:ARG:HH12	26:A2:75:LYS:CE	2.27	0.47
25:A1:101:ARG:HB2	26:A2:13:ARG:HH21	1.80	0.47
26:A2:78:VAL:C	26:A2:80:TYR:N	2.71	0.47
27:A3:36:ILE:O	27:A3:36:ILE:CG2	2.62	0.47
27:A3:39:ARG:NH1	27:A3:69:PHE:CE1	2.83	0.47
29:A5:4:HIS:CB	29:A5:5:PRO:CD	2.92	0.47
34:BA:33:A:O2'	47:BO:31:PRO:HB3	2.15	0.47
34:BA:271:C:O2'	34:BA:272:C:C5'	2.62	0.47
34:BA:277:C:H5''	52:BT:68:ARG:NH1	2.29	0.47
34:BA:287:U:O2'	34:BA:288:A:C5'	2.62	0.47
34:BA:539:A:H2'	34:BA:540:G:C8	2.50	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:560:U:C6	34:BA:566:G:C2	3.03	0.47
34:BA:594:G:O6	34:BA:595:G:N2	2.47	0.47
34:BA:597:G:C2'	34:BA:598:U:C5'	2.92	0.47
34:BA:708:C:C5'	46:BN:37:GLY:CA	2.91	0.47
34:BA:790:A:C6	34:BA:791:G:C6	3.03	0.47
34:BA:803:G:O2'	34:BA:804:U:H5'	2.14	0.47
34:BA:816:A:H2'	34:BA:817:C:OP2	2.15	0.47
34:BA:878:G:OP1	43:BK:88:LYS:HB2	2.14	0.47
34:BA:950:U:C2'	34:BA:951:G:C5'	2.87	0.47
34:BA:1044:A:C2'	34:BA:1045:C:C5'	2.92	0.47
34:BA:1057:G:H1'	38:BF:195:VAL:HG12	1.96	0.47
34:BA:1253:G:H2'	34:BA:1254:C:O4'	2.14	0.47
34:BA:1326:C:H5''	56:BX:19:GLY:CA	2.45	0.47
34:BA:1426:C:H2'	34:BA:1427:U:O5'	2.14	0.47
34:BA:1451:A:C8	34:BA:1451:A:O5'	2.67	0.47
34:BA:1502:A:C6	34:BA:1504:G:N2	2.83	0.47
34:BA:1536:C:N3	36:B1:54:G:C2	2.83	0.47
35:BB:66:A:N6	35:BB:67:A:N6	2.62	0.47
35:BC:9:A:N3	35:BC:46:G:C8	2.82	0.47
35:BC:20:G:N3	35:BC:20:G:C3'	2.72	0.47
36:B1:17:G:N2	36:B1:39:A:N6	2.59	0.47
37:BE:135:GLN:O	37:BE:136:VAL:C	2.58	0.47
37:BE:154:LEU:HB3	37:BE:155:LEU:H	1.62	0.47
37:BE:217:ARG:O	37:BE:220:ASP:CB	2.39	0.47
39:BG:94:LEU:CD1	39:BG:200:GLU:OE1	2.60	0.47
41:BI:41:GLU:CG	41:BI:62:TRP:CE3	2.92	0.47
41:BI:76:ALA:HA	41:BI:79:LEU:HD11	1.96	0.47
42:BJ:42:ILE:O	42:BJ:43:PHE:C	2.57	0.47
42:BJ:42:ILE:HG23	42:BJ:117:ALA:N	2.30	0.47
42:BJ:51:GLN:OE1	42:BJ:51:GLN:HA	2.15	0.47
42:BJ:114:ARG:O	42:BJ:115:ARG:HG3	2.13	0.47
45:BM:33:GLN:O	45:BM:34:VAL:HB	2.13	0.47
45:BM:49:VAL:HG13	45:BM:50:ILE:H	1.79	0.47
47:BO:7:ILE:HG22	52:BT:34:LYS:HE2	1.97	0.47
47:BO:86:ARG:HB3	47:BO:101:VAL:HG21	1.96	0.47
47:BO:117:ARG:HH11	47:BO:124:LYS:HD2	1.79	0.47
49:BQ:27:CYS:C	49:BQ:40:CYS:SG	2.97	0.47
50:BR:62:GLN:O	50:BR:63:ARG:C	2.57	0.47
50:BR:64:ARG:O	50:BR:66:LEU:N	2.47	0.47
52:BT:59:ILE:CD1	52:BT:73:VAL:CA	2.92	0.47
52:BT:95:TYR:O	52:BT:96:GLN:C	2.57	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:48:GLY:C	53:BU:49:LYS:HE3	2.31	0.47
53:BU:51:LEU:HD12	53:BU:51:LEU:N	2.27	0.47
55:BW:86:ARG:CG	55:BW:87:LYS:HG3	2.45	0.47
56:BX:5:ASP:OD1	56:BX:7:ARG:HG2	2.15	0.47
1:AB:12:C:H3'	27:A3:53:MET:CE	2.44	0.47
1:AB:49:C:OP1	16:AQ:111:PRO:CD	2.62	0.47
1:AB:92:G:C6	1:AB:93:C:C4	3.02	0.47
2:AA:72:U:O2'	22:AW:54:ALA:CB	2.63	0.47
2:AA:72:U:O2	22:AW:54:ALA:HB1	2.15	0.47
2:AA:270(W):G:C2'	2:AA:270(X):G:H8	2.28	0.47
2:AA:336:C:C2'	2:AA:337:C:H5'	2.43	0.47
2:AA:358:U:H5'	2:AA:358:U:C6	2.49	0.47
2:AA:412:A:H61	2:AA:2410:G:N2	2.11	0.47
2:AA:533:G:OP2	25:A1:25:TRP:CD1	2.68	0.47
2:AA:599:G:C4	2:AA:600:G:N7	2.82	0.47
2:AA:701:G:O2'	2:AA:702:G:C5'	2.63	0.47
2:AA:780:G:C6	2:AA:782:A:N1	2.83	0.47
2:AA:799:G:C8	2:AA:799:G:OP2	2.68	0.47
2:AA:800:A:HO2'	2:AA:801:G:P	2.37	0.47
2:AA:917:A:N7	2:AA:2268:A:C6	2.83	0.47
2:AA:974(A):C:H1'	2:AA:989:G:C2	2.49	0.47
2:AA:1118:C:C2'	2:AA:1119:C:O4'	2.48	0.47
2:AA:1131:G:O2'	2:AA:1132:A:O5'	2.14	0.47
2:AA:1143:A:C2'	2:AA:1144:G:O5'	2.62	0.47
2:AA:1144:G:C4	2:AA:1145:C:C6	3.03	0.47
2:AA:1344:G:H22	2:AA:1404:C:H1'	1.79	0.47
2:AA:1366:A:N3	2:AA:1367:A:C8	2.82	0.47
2:AA:1472:A:H62	2:AA:1474:C:H42	1.61	0.47
2:AA:1492:G:N2	2:AA:1493:C:C4	2.83	0.47
2:AA:1640:C:H2'	2:AA:1641:A:O5'	2.13	0.47
2:AA:1668:A:C2	2:AA:1674:G:H1'	2.49	0.47
2:AA:1672:C:C2'	2:AA:1673:U:C5'	2.90	0.47
2:AA:1798:U:H3	2:AA:1821:A:N6	2.13	0.47
2:AA:1802:A:C8	2:AA:1817:G:N2	2.83	0.47
2:AA:1900:A:HO2'	2:AA:1901:A:P	2.35	0.47
2:AA:1907:G:H2'	2:AA:1908:C:H6	1.78	0.47
2:AA:2059:A:C2	2:AA:2503:A:C6	3.02	0.47
2:AA:2072:G:H2'	2:AA:2073:C:C6	2.44	0.47
2:AA:2104:G:N2	2:AA:2105:C:C2	2.82	0.47
2:AA:2132:U:C2	2:AA:2133:G:C2	3.03	0.47
2:AA:2276:G:C2	2:AA:2277:G:C8	3.02	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2403:C:O2	2:AA:2403:C:H2'	2.15	0.47
2:AA:2463:C:O2	2:AA:2487:G:N1	2.36	0.47
2:AA:2489:G:C5	2:AA:2490:G:C5	3.03	0.47
2:AA:2521:C:C2	2:AA:2544:G:N2	2.75	0.47
2:AA:2539:C:O2'	2:AA:2540:C:C5'	2.61	0.47
2:AA:2626:C:C6	2:AA:2626:C:H3'	2.49	0.47
2:AA:2714:G:O6	2:AA:2715:C:C4	2.67	0.47
2:AA:2834:G:C6	2:AA:2879:C:O2	2.67	0.47
2:AA:2843:G:C4	2:AA:2844:G:C8	3.02	0.47
3:AC:79:LYS:HZ3	3:AC:79:LYS:HB3	1.79	0.47
3:AC:214:VAL:CG2	3:AC:224:ILE:HD11	2.45	0.47
4:AD:80:ILE:CB	4:AD:82:TYR:CE1	2.91	0.47
5:AE:42:ALA:N	5:AE:311:PHE:CZ	2.82	0.47
5:AE:44:TYR:CG	5:AE:307:LEU:O	2.68	0.47
5:AE:268:LEU:HD23	5:AE:268:LEU:C	2.39	0.47
6:AF:1:MET:SD	6:AF:23:GLU:OE2	2.72	0.47
6:AF:156:LEU:O	6:AF:159:ALA:CB	2.56	0.47
6:AF:239:ALA:C	6:AF:241:ALA:N	2.69	0.47
7:AG:28:GLY:CA	7:AG:69:ILE:CG2	2.89	0.47
7:AG:53:LYS:HG2	7:AG:54:ALA:N	2.29	0.47
7:AG:103:ASN:OD1	7:AG:133:ASN:CA	2.63	0.47
9:AI:55:GLU:O	9:AI:56:LYS:HB2	2.14	0.47
9:AI:102:ILE:HD13	9:AI:118:LEU:CD1	2.44	0.47
9:AJ:13:LEU:CD2	9:AJ:17:GLU:CD	2.88	0.47
9:AJ:15:VAL:CG2	9:AJ:49:ALA:N	2.78	0.47
9:AJ:85:LEU:HD12	11:AL:57:VAL:CB	2.44	0.47
12:AM:58:GLU:HG2	12:AM:61:VAL:HG11	1.97	0.47
13:AN:119:PRO:CG	13:AN:120:GLU:N	2.77	0.47
15:AP:9:SER:O	15:AP:11:LYS:HG2	2.14	0.47
15:AP:54:VAL:HG22	15:AP:55:GLN:H	1.79	0.47
15:AP:60:ALA:HB3	15:AP:61:LEU:CD2	2.45	0.47
15:AP:72:VAL:O	15:AP:73:GLN:HB2	2.15	0.47
16:AQ:66:LEU:O	16:AQ:67:ALA:O	2.32	0.47
19:AT:23:LYS:CG	19:AT:67:ARG:HA	2.43	0.47
19:AT:33:SER:N	19:AT:36:GLU:HG3	2.29	0.47
19:AT:52:VAL:HG22	19:AT:66:VAL:HA	1.95	0.47
20:AU:15:PRO:HB2	20:AU:18:GLU:CD	2.39	0.47
20:AU:61:GLU:N	20:AU:74:VAL:HG13	2.30	0.47
20:AU:101:LEU:CD2	20:AU:103:LEU:HD21	2.44	0.47
21:AV:2:GLU:O	21:AV:54:ILE:HG23	2.14	0.47
21:AV:36:ARG:O	21:AV:37:LYS:HB2	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:37:LYS:O	21:AV:40:ASP:HB2	2.14	0.47
21:AV:79:ILE:C	21:AV:80:HIS:CG	2.92	0.47
25:A1:41:ASN:ND2	25:A1:42:ALA:N	2.63	0.47
25:A1:47:TYR:OH	26:A2:76:SER:CA	2.63	0.47
26:A2:69:ILE:CG1	26:A2:89:ASN:O	2.63	0.47
27:A3:24:LYS:CE	27:A3:56:ASP:OD2	2.63	0.47
28:A4:11:PRO:O	28:A4:12:CYS:HB2	2.13	0.47
32:A8:9:MET:O	32:A8:14:ILE:CG1	2.63	0.47
32:A8:55:TRP:CZ3	32:A8:59:LYS:HE3	2.49	0.47
34:BA:81:U:C2'	34:BA:83:U:OP2	2.56	0.47
34:BA:191:G:H8	34:BA:191:G:O5'	1.98	0.47
34:BA:275:G:H4'	52:BT:14:LYS:HB3	1.97	0.47
34:BA:320:C:O2	34:BA:321:A:C1'	2.63	0.47
34:BA:463:A:OP2	51:BS:75:ARG:NH2	2.43	0.47
34:BA:503:C:O2	34:BA:510:A:H2	1.97	0.47
34:BA:643:C:O2	43:BK:94:TYR:OH	2.31	0.47
34:BA:644:G:C2'	34:BA:645:C:H5'	2.44	0.47
34:BA:694:A:C2	34:BA:695:A:H1'	2.50	0.47
34:BA:876:G:C4	34:BA:877:C:C5	3.01	0.47
34:BA:877:C:O2'	34:BA:878:G:H5'	2.14	0.47
34:BA:883:C:C4	34:BA:884:U:C4	3.03	0.47
34:BA:886:G:O6	34:BA:912:C:C4	2.67	0.47
34:BA:893:C:H2'	34:BA:894:G:C8	2.42	0.47
34:BA:935:A:H2'	34:BA:936:C:C6	2.49	0.47
34:BA:958:A:N3	54:BV:55:LYS:HB2	2.30	0.47
34:BA:1049:U:C6	34:BA:1201:A:O4'	2.67	0.47
34:BA:1117:G:C5	34:BA:1184:G:N1	2.83	0.47
34:BA:1196:U:H3'	34:BA:1196:U:H6	1.80	0.47
34:BA:1202:G:H2'	34:BA:1202:G:N3	2.29	0.47
34:BA:1209:C:C2'	34:BA:1210:C:C5'	2.90	0.47
34:BA:1251:A:O4'	34:BA:1370:G:H4'	2.15	0.47
34:BA:1305:G:N2	34:BA:1331:G:N3	2.63	0.47
34:BA:1330:U:H3'	34:BA:1331:G:H8	1.79	0.47
34:BA:1336:C:C4'	34:BA:1337:G:C2	2.97	0.47
34:BA:1412:C:N3	34:BA:1489:G:C2	2.82	0.47
34:BA:1454:G:O2'	34:BA:1455:G:C5'	2.62	0.47
34:BA:1518:A:C2	34:BA:1519:A:C2	3.02	0.47
35:BB:9:A:N3	35:BB:45:G:C4	2.82	0.47
35:BB:53:G:C4	35:BB:54:U:C6	3.01	0.47
37:BE:115:LEU:CD1	37:BE:145:LEU:HB3	2.37	0.47
37:BE:164:VAL:HG22	37:BE:165:VAL:HG22	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:187:LEU:O	37:BE:187:LEU:HD13	2.14	0.47
38:BF:98:ASN:O	38:BF:99:VAL:CG1	2.62	0.47
39:BG:8:VAL:HG12	39:BG:11:LEU:HD12	1.95	0.47
39:BG:71:SER:O	39:BG:75:PHE:CB	2.62	0.47
39:BG:85:LYS:O	39:BG:86:LYS:C	2.58	0.47
39:BG:122:ARG:HA	39:BG:134:ASP:HB2	1.96	0.47
39:BG:131:ARG:HB2	39:BG:132:ARG:H	1.53	0.47
40:BH:99:GLY:H	40:BH:117:ASP:HA	1.80	0.47
41:BI:8:ILE:HG23	41:BI:87:ARG:O	2.15	0.47
41:BI:11:ASN:ND2	41:BI:13:ASN:ND2	2.53	0.47
41:BI:40:VAL:HG22	41:BI:40:VAL:O	2.14	0.47
41:BI:75:LEU:HD22	41:BI:75:LEU:O	2.14	0.47
41:BI:99:ALA:O	41:BI:100:ASN:O	2.32	0.47
42:BJ:85:TYR:HD2	42:BJ:85:TYR:N	2.13	0.47
42:BJ:115:ARG:O	42:BJ:118:VAL:HG23	2.15	0.47
43:BK:74:PRO:O	43:BK:75:ARG:O	2.32	0.47
43:BK:109:ILE:CD1	43:BK:137:VAL:HB	2.45	0.47
44:BL:71:SER:O	44:BL:74:ILE:N	2.47	0.47
44:BL:73:GLN:O	44:BL:77:ILE:HG13	2.14	0.47
45:BM:25:GLU:CA	45:BM:28:ARG:HB2	2.44	0.47
46:BN:116:HIS:O	46:BN:117:ASN:CB	2.63	0.47
51:BS:49:LEU:HD21	51:BS:51:VAL:CG2	2.44	0.47
51:BS:52:ASP:OD2	51:BS:54:GLU:N	2.47	0.47
51:BS:58:TYR:O	51:BS:61:SER:HB3	2.15	0.47
52:BT:82:MET:O	52:BT:85:VAL:HB	2.14	0.47
1:AB:8:U:O2'	1:AB:9:G:C8	2.67	0.47
1:AB:57:A:H2'	1:AB:58:A:O4'	2.15	0.47
1:AB:58:A:O5'	1:AB:58:A:C8	2.57	0.47
1:AB:75:G:H1'	21:AV:22:VAL:CG2	2.44	0.47
2:AA:7:G:H5'	12:AM:6:PHE:HD2	1.79	0.47
2:AA:20:C:N4	2:AA:521:G:O6	2.48	0.47
2:AA:23:G:C2	2:AA:24:G:N9	2.82	0.47
2:AA:56:A:H3'	2:AA:57:C:C6	2.50	0.47
2:AA:59:U:C1'	2:AA:73:A:C5	2.98	0.47
2:AA:77:C:OP2	2:AA:77:C:C6	2.68	0.47
2:AA:107:C:O2'	2:AA:108:U:O5'	2.32	0.47
2:AA:109:G:C2	2:AA:110:G:C1'	2.97	0.47
2:AA:143:C:C6	2:AA:143:C:C3'	2.97	0.47
2:AA:182:A:N3	2:AA:183:C:C6	2.83	0.47
2:AA:187:G:H2'	2:AA:188:G:H5'	1.97	0.47
2:AA:222:A:O2'	2:AA:223:A:P	2.72	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:270(H):C:H2'	2:AA:270(I):G:O4'	2.15	0.47
2:AA:271(C):U:H4'	2:AA:271:G:H5'	1.97	0.47
2:AA:283:A:C5	2:AA:284:U:H5	2.32	0.47
2:AA:285:C:H5''	2:AA:286:C:OP2	2.14	0.47
2:AA:319:C:C4	2:AA:320:A:C5	3.03	0.47
2:AA:332:A:OP2	2:AA:332:A:H3'	2.15	0.47
2:AA:340:A:P	2:AA:340:A:H8	2.37	0.47
2:AA:357:A:C5	2:AA:358:U:C6	3.03	0.47
2:AA:388:G:N3	2:AA:390:A:C6	2.82	0.47
2:AA:390:A:C5'	2:AA:391:G:OP1	2.55	0.47
2:AA:451:C:P	6:AF:49:ASP:HB2	2.55	0.47
2:AA:470:A:N3	2:AA:471:A:C1'	2.78	0.47
2:AA:495:G:C2	2:AA:496:G:H1'	2.50	0.47
2:AA:501:A:C5	2:AA:502:A:C6	3.03	0.47
2:AA:530:G:C2	2:AA:2021:C:C6	3.03	0.47
2:AA:576:U:C2	2:AA:577:G:N7	2.83	0.47
2:AA:576:U:C2'	2:AA:577:G:H5'	2.44	0.47
2:AA:585:G:C2'	2:AA:586:A:H8	2.26	0.47
2:AA:587:C:C4	2:AA:671:C:C6	3.03	0.47
2:AA:648:G:C2	2:AA:649:G:C8	3.03	0.47
2:AA:656:G:C2'	2:AA:657:U:O4'	2.56	0.47
2:AA:668:G:C5	2:AA:670:A:C8	3.03	0.47
2:AA:669:G:O2'	2:AA:801:G:N2	2.48	0.47
2:AA:672:C:O5'	2:AA:672:C:H6	1.98	0.47
2:AA:675:A:OP2	2:AA:804:A:N6	2.42	0.47
2:AA:687:C:C4	2:AA:788:A:C8	3.02	0.47
2:AA:692:C:N4	2:AA:771:G:C6	2.83	0.47
2:AA:702:G:C2	2:AA:703:U:C2	3.02	0.47
2:AA:714:U:C6	2:AA:714:U:O5'	2.67	0.47
2:AA:734:A:C2	2:AA:735:A:N9	2.83	0.47
2:AA:747:U:OP1	29:A5:2:ALA:HB3	2.15	0.47
2:AA:784:A:C5	2:AA:792:G:C4	3.03	0.47
2:AA:812:C:H1'	2:AA:1250:G:C2	2.50	0.47
2:AA:874:G:H5'	21:AV:115:ILE:CD1	2.45	0.47
2:AA:895:U:O2	2:AA:896:A:N6	2.48	0.47
2:AA:906:G:C2	2:AA:907:U:C6	3.02	0.47
2:AA:922:U:H2'	2:AA:923:C:C5	2.50	0.47
2:AA:924:C:O2'	2:AA:925:C:C5'	2.63	0.47
2:AA:932:G:H5'	23:AX:24:LYS:CE	2.45	0.47
2:AA:970:C:O2	2:AA:971:C:C6	2.66	0.47
2:AA:973:A:N1	26:A2:81:ARG:N	2.63	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1006:C:N1	2:AA:1137:G:N2	2.63	0.47
2:AA:1021:A:C8	2:AA:1021:A:C3'	2.97	0.47
2:AA:1026:U:H6	2:AA:1026:U:C4'	2.27	0.47
2:AA:1058:G:C2'	2:AA:1059:G:O5'	2.63	0.47
2:AA:1059:G:N2	11:AL:131:THR:N	2.63	0.47
2:AA:1059:G:H21	11:AL:131:THR:HG23	1.79	0.47
2:AA:1079:C:O2'	11:AL:129:GLU:CD	2.57	0.47
2:AA:1084:A:O4'	9:AI:38:ALA:HB2	2.13	0.47
2:AA:1108:U:O4	2:AA:1109:C:C4	2.67	0.47
2:AA:1136:G:H21	2:AA:1137:G:C1'	2.26	0.47
2:AA:1179:C:O2'	2:AA:1180:C:C5'	2.62	0.47
2:AA:1254:A:C8	2:AA:1256:G:O4'	2.67	0.47
2:AA:1264:G:OP1	29:A5:19:ARG:NH1	2.47	0.47
2:AA:1266:G:C2'	2:AA:1267:U:OP2	2.62	0.47
2:AA:1288:U:O2	2:AA:1327:C:N3	2.48	0.47
2:AA:1294:U:O2'	24:A0:26:LYS:CD	2.60	0.47
2:AA:1294:U:C6	2:AA:1294:U:H5''	2.50	0.47
2:AA:1314:C:N4	2:AA:1338:G:H1	2.12	0.47
2:AA:1340:U:C2'	2:AA:1341:U:OP1	2.63	0.47
2:AA:1342:A:C3'	2:AA:1342:A:C8	2.98	0.47
2:AA:1344:G:N1	2:AA:1404:C:C2	2.82	0.47
2:AA:1366:A:C4	2:AA:1367:A:C8	3.02	0.47
2:AA:1372:U:H2'	2:AA:1373:A:O4'	2.14	0.47
2:AA:1375:C:C6	2:AA:1376:C:H5	2.33	0.47
2:AA:1435:G:H2'	2:AA:1436:G:O4'	2.15	0.47
2:AA:1444:G:O3'	2:AA:444(A):A:O4'	2.32	0.47
2:AA:1465:G:C2'	2:AA:1466:G:O5'	2.62	0.47
2:AA:1553:A:C2	2:AA:1555:G:H5''	2.50	0.47
2:AA:1587:A:C2	2:AA:1588:C:N3	2.83	0.47
2:AA:1594:G:H2'	2:AA:1595:G:O4'	2.15	0.47
2:AA:1609:A:N6	2:AA:1616:A:C2	2.82	0.47
2:AA:1642:G:C6	2:AA:1643:G:N7	2.83	0.47
2:AA:1666:G:H2'	2:AA:1667:G:O4'	2.15	0.47
2:AA:1694:C:H2'	2:AA:1695:G:OP2	2.15	0.47
2:AA:1697:G:OP2	2:AA:1698:A:H3'	2.14	0.47
2:AA:1788:C:C6	2:AA:1788:C:O5'	2.64	0.47
2:AA:1795:C:N4	2:AA:1824:G:N1	2.32	0.47
2:AA:1838:C:H2'	2:AA:1898:U:O4	2.13	0.47
2:AA:1859:A:H2'	2:AA:1860:G:C5'	2.38	0.47
2:AA:1886:C:H2'	2:AA:1887:C:H6	1.79	0.47
2:AA:1935:G:C3'	2:AA:1962:C:H42	2.28	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1964:G:C6	2:AA:1967:C:H5	2.33	0.47
2:AA:1969:A:C5'	2:AA:1970:A:OP1	2.63	0.47
2:AA:1996:C:H2'	2:AA:1997:G:H4'	1.97	0.47
2:AA:2025:C:O2	2:AA:2025:C:C2'	2.62	0.47
2:AA:2027:G:H2'	2:AA:2028:U:C6	2.47	0.47
2:AA:2036:C:H5'	2:AA:2036:C:C6	2.46	0.47
2:AA:2078:C:H1'	2:AA:2434:A:C2	2.50	0.47
2:AA:2082:A:N3	2:AA:2083:G:C8	2.83	0.47
2:AA:2122:U:C6	2:AA:2122:U:OP2	2.67	0.47
2:AA:2135:A:OP1	2:AA:2136:C:C6	2.67	0.47
2:AA:2140:C:OP2	2:AA:2140:C:O4'	2.32	0.47
2:AA:2225:A:H5''	2:AA:2226:C:O4'	2.15	0.47
2:AA:2243:U:C2'	2:AA:2244:U:H5'	2.43	0.47
2:AA:2284:C:HO2'	2:AA:2325:G:N2	2.12	0.47
2:AA:2287:A:C5	2:AA:2289:G:C4	3.02	0.47
2:AA:2317:C:C5'	7:AG:150:SER:CA	2.86	0.47
2:AA:2356:C:H4'	27:A3:17:ASN:HB3	1.95	0.47
2:AA:2404:C:C4	2:AA:2414:G:N2	2.83	0.47
2:AA:2408:U:C2	2:AA:2409:G:N7	2.82	0.47
2:AA:2456:C:C2'	2:AA:2457:U:H5'	2.45	0.47
2:AA:2460:U:C5	2:AA:2461:C:C4	3.02	0.47
2:AA:2478:A:H3'	2:AA:2478:A:H8	1.80	0.47
2:AA:2485:G:HO2'	2:AA:2486:G:H5'	1.73	0.47
2:AA:2492:U:O2'	2:AA:2493:U:H5'	2.14	0.47
2:AA:2497:A:O2'	2:AA:2498:C:C6	2.68	0.47
2:AA:2532:G:N2	2:AA:2662:A:N6	2.63	0.47
2:AA:2536:G:C5	2:AA:2537:U:C4	3.02	0.47
2:AA:2551:C:H2'	2:AA:2552:U:C6	2.49	0.47
2:AA:2569:G:H2'	2:AA:2570:G:H8	1.79	0.47
2:AA:2582:G:C2'	2:AA:2583:G:C5'	2.88	0.47
2:AA:2606:C:C6	2:AA:2606:C:C4'	2.98	0.47
2:AA:2617:C:C2	2:AA:2618:G:H8	2.32	0.47
2:AA:2634:G:H5'	5:AE:111:THR:CG2	2.45	0.47
2:AA:2658:C:C2'	2:AA:2659:G:C5'	2.75	0.47
2:AA:2670:A:H5''	2:AA:2670:A:C8	2.50	0.47
2:AA:2731:G:OP1	5:AE:265:ASN:CG	2.58	0.47
2:AA:2740:A:C5	2:AA:2741:A:C6	3.03	0.47
2:AA:2865:U:C4	2:AA:2866:U:C5	3.02	0.47
3:AC:73:ARG:O	3:AC:111:ASP:N	2.37	0.47
3:AC:155:GLU:O	3:AC:156:ILE:C	2.57	0.47
3:AC:200:LYS:HG3	3:AC:208:PHE:CE1	2.50	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:65:ASP:OD2	4:AD:101:ARG:HD3	2.14	0.47
4:AD:142:ASN:HB2	4:AD:190:THR:N	2.28	0.47
4:AD:169:LYS:NZ	4:AD:169:LYS:HB2	2.28	0.47
5:AE:41:PHE:CZ	5:AE:173:ARG:HD2	2.49	0.47
5:AE:94:ARG:HB3	5:AE:95:PRO:CD	2.44	0.47
5:AE:205:THR:HG23	5:AE:259:HIS:O	2.14	0.47
6:AF:32:GLY:HA2	6:AF:35:VAL:CG2	2.44	0.47
6:AF:82:GLN:N	6:AF:87:ARG:CD	2.68	0.47
6:AF:138:VAL:C	6:AF:139:VAL:HG23	2.39	0.47
6:AF:167:ASP:O	6:AF:168:ARG:HG3	2.15	0.47
6:AF:197:SER:CA	6:AF:215:ALA:HB2	2.44	0.47
6:AF:202:THR:O	6:AF:203:ALA:C	2.57	0.47
7:AG:135:VAL:HA	7:AG:139:TYR:CE2	2.50	0.47
8:AH:108:TYR:O	8:AH:109:SER:CB	2.62	0.47
9:AJ:2:THR:OG1	9:AJ:5:GLU:HG3	2.14	0.47
9:AJ:91:LEU:O	9:AJ:94:LYS:N	2.47	0.47
10:AK:76:THR:CA	10:AK:142:LYS:HE2	2.44	0.47
10:AK:116:GLU:OE2	10:AK:130:PRO:C	2.57	0.47
10:AK:117:LEU:O	10:AK:118:ALA:C	2.56	0.47
10:AK:129:VAL:HB	10:AK:131:VAL:HG23	1.96	0.47
11:AL:75:ALA:CA	11:AL:112:LYS:NZ	2.76	0.47
11:AL:96:ILE:O	11:AL:97:VAL:CG1	2.62	0.47
12:AM:31:LEU:C	12:AM:33:GLY:N	2.72	0.47
12:AM:41:ALA:O	12:AM:132:LEU:O	2.32	0.47
13:AN:35:ILE:CA	13:AN:62:VAL:HB	2.45	0.47
13:AN:45:ASP:HA	13:AN:54:LYS:CG	2.39	0.47
14:AO:70:ASP:O	14:AO:74:THR:CG2	2.59	0.47
14:AO:96:VAL:HG23	14:AO:100:ALA:N	2.30	0.47
15:AP:49:VAL:HG13	15:AP:50:VAL:H	1.77	0.47
15:AP:67:ALA:HB2	15:AP:70:ARG:HH11	1.76	0.47
15:AP:124:ALA:HB2	15:AP:136:TRP:CD1	2.49	0.47
16:AQ:97:VAL:O	16:AQ:98:GLU:CG	2.62	0.47
19:AT:14:ALA:CB	19:AT:18:MET:HE2	2.36	0.47
19:AT:23:LYS:HD3	19:AT:65:VAL:HG11	1.97	0.47
20:AU:11:GLN:HG3	20:AU:21:LYS:HZ2	1.79	0.47
20:AU:16:LEU:O	20:AU:19:ARG:CB	2.62	0.47
20:AU:30:ASP:OD2	20:AU:31:LEU:HD21	2.14	0.47
20:AU:74:VAL:HB	20:AU:91:LEU:CD1	2.44	0.47
20:AU:77:VAL:HB	20:AU:91:LEU:HD21	1.96	0.47
20:AU:98:VAL:HG12	20:AU:99:THR:N	2.29	0.47
21:AV:5:ALA:C	21:AV:33:ALA:HB2	2.32	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:16:GLU:OE1	21:AV:16:GLU:CA	2.61	0.47
21:AV:53:ASP:CB	21:AV:62:PHE:O	2.61	0.47
21:AV:68:ALA:C	21:AV:69:VAL:CG2	2.87	0.47
21:AV:74:ARG:C	21:AV:76:ARG:H	2.22	0.47
21:AV:125:PRO:HG3	21:AV:130:ILE:HG22	1.96	0.47
23:AX:23:LEU:CD2	23:AX:53:LEU:CD1	2.93	0.47
24:A0:20:LEU:HD13	24:A0:20:LEU:O	2.14	0.47
24:A0:24:GLN:HE22	24:A0:36:THR:HG23	1.78	0.47
24:A0:93:GLY:O	24:A0:95:THR:N	2.47	0.47
25:A1:93:LYS:N	26:A2:10:LYS:NZ	2.56	0.47
26:A2:10:LYS:O	26:A2:11:GLN:C	2.57	0.47
26:A2:72:ARG:CB	26:A2:88:GLN:CD	2.58	0.47
26:A2:75:LYS:HA	26:A2:75:LYS:CE	2.18	0.47
27:A3:24:LYS:HE2	27:A3:56:ASP:CG	2.40	0.47
27:A3:47:ALA:HB1	27:A3:49:GLN:HE22	1.80	0.47
27:A3:51:VAL:HG12	27:A3:51:VAL:O	2.14	0.47
28:A4:5:LEU:CA	28:A4:56:VAL:HA	2.42	0.47
28:A4:51:ASP:O	28:A4:52:THR:HG23	2.15	0.47
28:A4:58:LYS:HB3	28:A4:59:PHE:CD1	2.50	0.47
29:A5:10:LYS:HZ3	29:A5:10:LYS:HB2	1.80	0.47
29:A5:17:ASP:O	29:A5:18:MET:C	2.54	0.47
29:A5:28:PRO:O	29:A5:30:LEU:HG	2.15	0.47
29:A5:33:CYS:SG	29:A5:40:LYS:HG3	2.55	0.47
30:A6:2:ALA:N	30:A6:11:LYS:CE	2.78	0.47
30:A6:12:MET:O	30:A6:13:GLU:HG3	2.14	0.47
30:A6:37:LEU:HD23	30:A6:51:ARG:HA	1.97	0.47
31:A7:22:MET:O	31:A7:23:LYS:C	2.57	0.47
31:A7:26:SER:OG	31:A7:27:GLY:N	2.47	0.47
34:BA:17:U:H1'	34:BA:1079:G:N2	2.30	0.47
34:BA:17:U:H3	34:BA:918:A:H61	1.62	0.47
34:BA:28:G:H1	34:BA:555:C:N4	2.11	0.47
34:BA:29:G:N1	34:BA:555:C:N4	2.62	0.47
34:BA:67:C:O2	34:BA:171:A:C2	2.67	0.47
34:BA:110:C:C3'	34:BA:111:G:H8	2.27	0.47
34:BA:176:C:H5''	55:BW:29:LYS:HZ3	1.79	0.47
34:BA:217:C:H2'	34:BA:218:C:C6	2.48	0.47
34:BA:250:A:O2'	34:BA:251:G:OP2	2.27	0.47
34:BA:285:G:C2	34:BA:286:G:C8	3.03	0.47
34:BA:402:G:O2'	34:BA:620:C:N4	2.40	0.47
34:BA:457:C:N3	34:BA:458:C:C5	2.83	0.47
34:BA:458:C:C5	34:BA:459:G:N7	2.82	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:507:C:OP2	34:BA:508:C:H3'	2.14	0.47
34:BA:544:G:C4	34:BA:545:C:C5	3.02	0.47
34:BA:579:G:C2'	34:BA:580:U:C5'	2.80	0.47
34:BA:592:G:C6	34:BA:593:G:N7	2.83	0.47
34:BA:595:G:C4	34:BA:641:U:N3	2.82	0.47
34:BA:622:A:C8	34:BA:623:C:C6	3.02	0.47
34:BA:642:A:C2	43:BK:114:THR:CA	2.98	0.47
34:BA:691:G:C5	46:BN:26:ASN:OD1	2.68	0.47
34:BA:691:G:C6	46:BN:26:ASN:OD1	2.68	0.47
34:BA:718:G:C5	46:BN:116:HIS:CD2	3.02	0.47
34:BA:723:U:O5'	34:BA:723:U:C5	2.68	0.47
34:BA:726:C:C2	34:BA:731:G:N2	2.79	0.47
34:BA:789:U:O2'	36:B1:59:A:C2	2.63	0.47
34:BA:827:U:C2	34:BA:870:U:C4	3.03	0.47
34:BA:864:A:C8	34:BA:864:A:C3'	2.98	0.47
34:BA:939:G:OP1	42:BJ:102:ARG:NH1	2.47	0.47
34:BA:943:U:H2'	34:BA:944:G:C5'	2.45	0.47
34:BA:959:A:C2	34:BA:1222:G:O4'	2.67	0.47
34:BA:969:A:C8	34:BA:969:A:C5'	2.96	0.47
34:BA:1045:C:C2	34:BA:1046:A:C8	3.03	0.47
34:BA:1116:C:H2'	34:BA:1117:G:O4'	2.14	0.47
34:BA:1145:C:HO2'	34:BA:1146:A:P	2.37	0.47
34:BA:1154:G:C4	34:BA:1155:G:N7	2.83	0.47
34:BA:1154:G:N3	34:BA:1155:G:C8	2.82	0.47
34:BA:1220:G:N2	34:BA:1221:G:C4	2.82	0.47
34:BA:1268:A:O2'	34:BA:1326:C:H4'	2.15	0.47
34:BA:1298:C:H3'	42:BJ:114:ARG:NH1	2.26	0.47
34:BA:1325:C:C2'	34:BA:1326:C:O5'	2.63	0.47
34:BA:1341:U:O2'	44:BL:126:SER:O	2.16	0.47
34:BA:1380:U:O2'	34:BA:1381:U:C5'	2.62	0.47
34:BA:1399:C:N3	34:BA:1401:G:C2	2.83	0.47
34:BA:1427:U:H2'	34:BA:1428:A:O5'	2.13	0.47
34:BA:1438:G:C6	34:BA:1439:C:C4	3.02	0.47
34:BA:1468:A:C8	34:BA:1468:A:C3'	2.98	0.47
34:BA:1494:G:N1	34:BA:1495:U:O4	2.47	0.47
34:BA:1507:A:C2	34:BA:1530:G:H1'	2.49	0.47
34:BA:1534:A:OP1	34:BA:1535:C:C5	2.68	0.47
34:BA:1539:C:N3	34:BA:1540:U:C5	2.83	0.47
35:BB:18:G:C6	35:BB:57:G:C2	2.88	0.47
35:BB:49:C:C2	35:BB:66:A:N1	2.83	0.47
35:BB:57:G:O2'	35:BB:58:A:C5'	2.62	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:49:C:H2'	35:BC:49:C:O2	2.15	0.47
35:BC:75:C:H2'	35:BC:76:A:O3'	2.14	0.47
37:BE:24:TRP:CG	37:BE:25:ASN:H	2.31	0.47
37:BE:192:SER:C	37:BE:194:PRO:CD	2.87	0.47
38:BF:12:LEU:CB	38:BF:18:TRP:CZ3	2.98	0.47
38:BF:123:GLN:HB3	38:BF:128:PHE:CD2	2.50	0.47
38:BF:142:MET:SD	38:BF:142:MET:O	2.73	0.47
38:BF:157:ILE:HG21	38:BF:164:ARG:NE	2.23	0.47
38:BF:187:ALA:CB	38:BF:198:VAL:HG23	2.42	0.47
39:BG:15:GLU:CG	39:BG:63:LYS:HB3	2.43	0.47
39:BG:26:CYS:HA	39:BG:31:CYS:CA	2.40	0.47
39:BG:64:LEU:CD2	39:BG:67:ILE:HD12	2.40	0.47
39:BG:100:ARG:NH1	39:BG:137:SER:HA	2.30	0.47
39:BG:102:ASP:OD1	39:BG:136:PRO:O	2.32	0.47
39:BG:155:LEU:O	39:BG:158:ILE:N	2.48	0.47
39:BG:177:ASP:OD1	39:BG:177:ASP:O	2.33	0.47
42:BJ:85:TYR:N	42:BJ:85:TYR:CD2	2.82	0.47
42:BJ:97:GLN:O	42:BJ:98:SER:C	2.57	0.47
43:BK:4:ASP:CB	43:BK:6:ILE:HG22	2.44	0.47
43:BK:8:ASP:C	43:BK:8:ASP:OD2	2.57	0.47
43:BK:77:GLU:O	43:BK:78:GLN:CB	2.62	0.47
43:BK:77:GLU:O	43:BK:78:GLN:CG	2.63	0.47
43:BK:114:THR:HG23	43:BK:119:LEU:CD2	2.37	0.47
44:BL:2:GLU:O	44:BL:21:PRO:CD	2.63	0.47
44:BL:33:PHE:CZ	44:BL:37:PHE:CE1	3.01	0.47
44:BL:40:LEU:O	44:BL:42:ARG:N	2.47	0.47
44:BL:116:LYS:O	44:BL:117:HIS:C	2.57	0.47
45:BM:5:ARG:NH2	45:BM:73:ASP:OD2	2.48	0.47
45:BM:9:ARG:CB	45:BM:9:ARG:HH11	2.28	0.47
45:BM:26:ALA:C	45:BM:28:ARG:H	2.22	0.47
46:BN:112:THR:O	46:BN:112:THR:HG22	2.14	0.47
47:BO:62:SER:HB3	47:BO:64:TYR:CD1	2.50	0.47
47:BO:84:LEU:HB3	47:BO:104:VAL:HG11	1.97	0.47
47:BO:126:LYS:C	47:BO:127:GLU:HG3	2.39	0.47
48:BP:48:LEU:HD23	48:BP:48:LEU:C	2.39	0.47
48:BP:55:ARG:C	48:BP:57:ARG:N	2.71	0.47
48:BP:58:GLU:O	48:BP:61:GLU:CB	2.63	0.47
48:BP:74:VAL:O	48:BP:78:ILE:CD1	2.62	0.47
48:BP:99:ARG:HG3	48:BP:99:ARG:HH11	1.80	0.47
50:BR:50:HIS:O	50:BR:51:HIS:C	2.57	0.47
50:BR:76:GLU:C	50:BR:78:TYR:H	2.21	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:29:HIS:CG	52:BT:30:PRO:HD2	2.50	0.47
52:BT:45:HIS:CE1	52:BT:47:PRO:CA	2.97	0.47
52:BT:60:ILE:HD13	52:BT:62:SER:CB	2.45	0.47
53:BU:58:LEU:HD22	53:BU:62:GLU:CG	2.44	0.47
53:BU:65:ILE:HG13	53:BU:66:LEU:N	2.30	0.47
53:BU:86:VAL:O	53:BU:87:ARG:CG	2.61	0.47
54:BV:64:GLU:O	54:BV:67:VAL:HG23	2.14	0.47
55:BW:28:ALA:O	55:BW:31:SER:CB	2.63	0.47
55:BW:34:LYS:HA	55:BW:37:SER:OG	2.15	0.47
55:BW:41:VAL:O	55:BW:91:LEU:CD1	2.63	0.47
56:BX:20:LYS:HE3	56:BX:21:TYR:CZ	2.50	0.47
1:AB:29:A:H2'	1:AB:30:C:C6	2.50	0.47
1:AB:42:C:H5'	7:AG:48:MET:CB	2.45	0.47
2:AA:135:G:C2	2:AA:144:C:N3	2.77	0.47
2:AA:270(E):G:C2'	2:AA:270(F):U:H5'	2.45	0.47
2:AA:270(X):G:N3	2:AA:270(Y):G:C4'	2.78	0.47
2:AA:339:U:C2'	2:AA:340:A:C8	2.81	0.47
2:AA:475:U:H5'	2:AA:510:C:OP2	2.15	0.47
2:AA:617:G:OP2	6:AF:221:GLU:OE1	2.33	0.47
2:AA:674:G:H5''	6:AF:69:HIS:CA	2.44	0.47
2:AA:784:A:C6	2:AA:792:G:C4	3.03	0.47
2:AA:819:A:H8	2:AA:819:A:H5'	1.79	0.47
2:AA:892:G:C6	2:AA:893:C:C5	3.03	0.47
2:AA:910:A:C2	2:AA:911:A:N7	2.83	0.47
2:AA:1002:G:C6	2:AA:1153:C:N4	2.82	0.47
2:AA:1122:G:C2	2:AA:1123:C:C4	3.03	0.47
2:AA:1129:A:N1	2:AA:2570:G:O4'	2.47	0.47
2:AA:1138:G:OP1	12:AM:82:THR:HA	2.13	0.47
2:AA:1140:C:C2'	2:AA:1141:U:OP2	2.62	0.47
2:AA:1144:G:C2'	2:AA:1145:C:H5'	2.45	0.47
2:AA:1168:G:C2'	2:AA:1169:G:C5'	2.87	0.47
2:AA:1173:G:H1'	2:AA:1177:A:C6	2.49	0.47
2:AA:1187:G:O4'	26:A2:82:ARG:NH2	2.48	0.47
2:AA:1300:U:O2'	2:AA:1301:A:P	2.73	0.47
2:AA:1338:G:O2'	19:AT:13:LYS:NZ	2.47	0.47
2:AA:1344:G:O4'	2:AA:1384:A:C2	2.68	0.47
2:AA:1394:U:O3'	2:AA:1603:A:H5'	2.14	0.47
2:AA:1524:G:C5	2:AA:1525:G:C8	3.03	0.47
2:AA:1615:C:H5	2:AA:1617:C:C5	2.31	0.47
2:AA:1633:G:C6	2:AA:1635:G:C2	3.03	0.47
2:AA:1637:A:C6	2:AA:1638:C:C4	3.03	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1689:A:N7	2:AA:1698:A:C2	2.82	0.47
2:AA:1692:U:C4	2:AA:1694:C:C2	3.03	0.47
2:AA:1704:G:C5	2:AA:1705:G:C8	3.03	0.47
2:AA:1786:A:C6	2:AA:1938:A:N6	2.82	0.47
2:AA:1799:G:H22	4:AD:153:LEU:HG	1.79	0.47
2:AA:1863:G:O6	2:AA:1879:C:N3	2.48	0.47
2:AA:1886:C:O2'	2:AA:1887:C:C5'	2.63	0.47
2:AA:1894:C:H2'	2:AA:1895:C:H6	1.80	0.47
2:AA:1956:U:O2	2:AA:1956:U:H3'	2.14	0.47
2:AA:2033:A:N1	2:AA:2036:C:C6	2.83	0.47
2:AA:2086:U:O4	2:AA:2233:U:O4	2.33	0.47
2:AA:2093:G:P	10:AK:25:TYR:CE2	3.08	0.47
2:AA:2119:A:C5	2:AA:2147:G:O5'	2.67	0.47
2:AA:2120:G:H2'	2:AA:2121:G:C8	2.50	0.47
2:AA:2126:A:C2	2:AA:2127:G:C2	3.03	0.47
2:AA:2212:A:C2	2:AA:2213:U:C5'	2.96	0.47
2:AA:2248:C:H2'	2:AA:2249:U:H5'	1.95	0.47
2:AA:2273:A:N7	2:AA:2274:A:N9	2.63	0.47
2:AA:2395:C:H2'	2:AA:2396:G:C8	2.50	0.47
2:AA:2416:C:OP1	14:AO:51:PHE:CD2	2.66	0.47
2:AA:2468:G:N2	2:AA:2481:G:N9	2.62	0.47
2:AA:2489:G:N7	2:AA:2490:G:N7	2.62	0.47
2:AA:2543:G:C8	2:AA:2544:G:N7	2.83	0.47
2:AA:2567:G:H2'	2:AA:2568:C:C6	2.50	0.47
2:AA:2578:G:H21	2:AA:2579:C:H1'	1.80	0.47
2:AA:2579:C:C4	2:AA:2580:U:C5	3.03	0.47
2:AA:2586:C:C6	2:AA:2586:C:C3'	2.97	0.47
2:AA:2586:C:H2'	2:AA:2587:A:C8	2.50	0.47
2:AA:2621:A:C6	2:AA:2622:C:C4	3.02	0.47
2:AA:2638:G:C8	2:AA:2775:A:C6	3.03	0.47
2:AA:2654:A:H61	2:AA:2667:C:H41	1.61	0.47
2:AA:2665:A:O2'	2:AA:2666:C:O4'	2.29	0.47
2:AA:2712:U:C6	2:AA:712(A):A:H8	2.29	0.47
2:AA:2792:G:N2	2:AA:2793:G:N2	2.62	0.47
2:AA:2873:A:C2'	2:AA:2874:C:O5'	2.62	0.47
2:AA:2875:C:C2	2:AA:2876:G:C8	3.02	0.47
2:AA:2881:C:H2'	2:AA:2882:A:H8	1.80	0.47
3:AC:16:PRO:HG2	3:AC:17:ASN:OD1	2.15	0.47
4:AD:143:ILE:O	4:AD:152:GLN:N	2.48	0.47
4:AD:146:LYS:HD3	4:AD:146:LYS:HA	1.36	0.47
5:AE:43:GLY:O	5:AE:44:TYR:CD1	2.68	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:211:GLN:N	5:AE:216:ARG:CZ	2.59	0.47
6:AF:84:VAL:C	6:AF:86:GLY:N	2.63	0.47
6:AF:142:ASP:HB2	6:AF:237:GLU:OE1	2.15	0.47
6:AF:150:THR:HB	6:AF:207:LEU:HD21	1.97	0.47
9:AJ:29:PHE:O	9:AJ:34:ALA:N	2.48	0.47
10:AK:6:LEU:CD2	10:AK:14:LYS:HZ3	2.27	0.47
10:AK:7:LYS:CE	10:AK:12:LYS:NZ	2.74	0.47
10:AK:10:LYS:HG3	10:AK:11:GLY:H	1.80	0.47
10:AK:119:ASP:OD2	10:AK:120:ALA:N	2.47	0.47
11:AL:52:MET:SD	11:AL:81:LYS:HB2	2.55	0.47
13:AN:81:GLU:CG	13:AN:82:ASN:N	2.28	0.47
13:AN:110:ASP:O	13:AN:111:PHE:CD2	2.68	0.47
13:AN:112:MET:HA	13:AN:115:ILE:CG1	2.45	0.47
14:AO:55:GLN:HE21	14:AO:56:LYS:CG	2.27	0.47
14:AO:59:GLU:OE1	14:AO:60:GLU:OE1	2.32	0.47
14:AO:108:VAL:O	14:AO:125:PHE:HB3	2.15	0.47
15:AP:135:ALA:O	15:AP:138:ARG:N	2.48	0.47
16:AQ:53:ASN:O	16:AQ:54:GLY:C	2.55	0.47
16:AQ:81:ALA:O	16:AQ:82:TYR:C	2.57	0.47
18:AS:13:SER:OG	18:AS:16:LYS:HB2	2.15	0.47
18:AS:89:ALA:O	18:AS:90:ARG:NH1	2.47	0.47
18:AS:103:ILE:O	18:AS:103:ILE:HG22	2.15	0.47
19:AT:44:GLN:OE1	19:AT:45:TYR:CD1	2.68	0.47
20:AU:9:LYS:HE3	20:AU:13:ARG:CZ	2.45	0.47
20:AU:18:GLU:HB3	20:AU:21:LYS:HD3	1.96	0.47
20:AU:27:LEU:HD13	20:AU:31:LEU:CD1	2.38	0.47
20:AU:27:LEU:HA	20:AU:98:VAL:O	2.15	0.47
20:AU:74:VAL:H	20:AU:91:LEU:CD1	2.27	0.47
24:A0:33:ARG:O	24:A0:34:ILE:CG1	2.57	0.47
24:A0:63:ARG:NH1	24:A0:80:PHE:CG	2.83	0.47
24:A0:113:LEU:CD1	24:A0:113:LEU:C	2.88	0.47
25:A1:82:GLY:O	25:A1:85:ARG:N	2.47	0.47
26:A2:5:ILE:O	26:A2:6:GLN:CG	2.63	0.47
28:A4:48:ARG:CG	28:A4:49:PHE:CG	2.98	0.47
29:A5:12:SER:O	29:A5:15:LYS:N	2.47	0.47
29:A5:46:CYS:HB3	29:A5:48:ASN:HD22	1.80	0.47
30:A6:21:TYR:CD2	30:A6:22:TYR:N	2.82	0.47
30:A6:46:LYS:HE2	30:A6:46:LYS:HA	1.95	0.47
31:A7:30:ILE:HD13	31:A7:33:ARG:HH11	1.79	0.47
31:A7:44:VAL:C	31:A7:46:ASP:N	2.69	0.47
32:A8:50:LEU:HD23	32:A8:51:ALA:CA	2.42	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:34:C:H2'	34:BA:35:G:H8	1.80	0.47
34:BA:98:U:H2'	34:BA:99:C:O5'	2.15	0.47
34:BA:247:G:O2'	34:BA:248:C:C5'	2.57	0.47
34:BA:311:C:C2'	34:BA:312:C:H5'	2.45	0.47
34:BA:363:A:C2	47:BO:31:PRO:HG2	2.50	0.47
34:BA:570:G:O3'	34:BA:819:A:H2'	2.15	0.47
34:BA:614:A:N1	34:BA:627:G:C6	2.83	0.47
34:BA:673:G:H5'	41:BI:87:ARG:HH21	1.80	0.47
34:BA:685:G:C2	34:BA:686:U:H5	2.31	0.47
34:BA:707:C:C2'	34:BA:708:C:O5'	2.62	0.47
34:BA:792:A:H2'	34:BA:794:A:N6	2.21	0.47
34:BA:817:C:C6	34:BA:819:A:C4'	2.98	0.47
34:BA:838:G:C6	34:BA:849:C:N4	2.82	0.47
34:BA:1081:G:OP1	40:BH:18:ARG:HB2	2.15	0.47
34:BA:1088:G:C6	34:BA:1089:G:N7	2.83	0.47
34:BA:1093:A:C6	34:BA:1095:U:O4'	2.68	0.47
34:BA:1148:U:O2'	34:BA:1149:C:C5'	2.63	0.47
34:BA:1253:G:C2	34:BA:1254:C:C2	3.03	0.47
34:BA:1323:G:C6	34:BA:1324:A:C6	3.03	0.47
34:BA:1324:A:N1	34:BA:1325:C:C4	2.83	0.47
34:BA:1355:G:C2	34:BA:1356:G:C8	3.03	0.47
34:BA:1419:G:C2	34:BA:1420:C:N3	2.83	0.47
35:BB:5:A:N1	35:BB:68:U:O2	2.48	0.47
35:BB:62:A:C2	35:BB:63:C:N3	2.82	0.47
35:BC:57:G:C2'	35:BC:58:A:C5'	2.91	0.47
37:BE:19:HIS:HD2	37:BE:189:ASP:OD2	1.98	0.47
37:BE:73:THR:CA	37:BE:94:ASN:O	2.57	0.47
38:BF:29:TYR:HE2	38:BF:33:LEU:HD11	1.80	0.47
39:BG:43:HIS:CE1	39:BG:46:LYS:HE3	2.48	0.47
39:BG:98:GLU:O	39:BG:99:SER:C	2.58	0.47
39:BG:122:ARG:O	39:BG:134:ASP:CB	2.57	0.47
39:BG:157:LEU:HA	39:BG:160:GLN:CG	2.45	0.47
40:BH:32:VAL:O	40:BH:43:LEU:HD23	2.14	0.47
40:BH:124:GLY:O	40:BH:126:ARG:N	2.48	0.47
42:BJ:14:PRO:CB	42:BJ:19:GLY:O	2.62	0.47
42:BJ:17:VAL:HG21	42:BJ:44:TYR:CE2	2.50	0.47
42:BJ:95:ARG:C	42:BJ:97:GLN:N	2.71	0.47
42:BJ:111:ARG:HD2	42:BJ:123:GLU:CD	2.40	0.47
42:BJ:113:GLU:OE1	42:BJ:119:ARG:N	2.47	0.47
42:BJ:144:MET:O	42:BJ:145:ALA:C	2.55	0.47
43:BK:69:ARG:HG3	43:BK:70:GLN:N	2.30	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BL:99:LEU:N	44:BL:99:LEU:CD2	2.77	0.47
45:BM:7:LYS:NZ	45:BM:71:LEU:HD21	2.29	0.47
46:BN:62:GLN:CD	46:BN:63:LEU:CA	2.88	0.47
48:BP:91:ARG:HH12	48:BP:97:PRO:HG2	1.79	0.47
53:BU:63:GLN:CA	53:BU:66:LEU:CG	2.91	0.47
55:BW:88:VAL:O	55:BW:92:LEU:CG	2.59	0.47
1:AB:11:C:N3	1:AB:15:A:N6	2.63	0.47
1:AB:53:A:C5	1:AB:54:G:C8	3.02	0.47
1:AB:78:A:OP1	21:AV:73:LYS:HE3	2.15	0.47
2:AA:4:C:C2'	2:AA:5:A:O5'	2.63	0.47
2:AA:38:A:C2	2:AA:39:C:C4	3.03	0.47
2:AA:179:G:H2'	2:AA:179:G:N3	2.29	0.47
2:AA:238:C:C4	2:AA:239:U:C5	3.03	0.47
2:AA:247:G:C8	2:AA:249:C:O2	2.68	0.47
2:AA:273(B):C:O2	2:AA:363(D):G:C2	2.68	0.47
2:AA:273(F):C:C5	2:AA:274:G:C8	3.03	0.47
2:AA:296:C:N3	2:AA:297:C:C5	2.83	0.47
2:AA:297:C:N4	2:AA:298:G:N3	2.63	0.47
2:AA:304:G:C2'	2:AA:305:U:H5'	2.45	0.47
2:AA:332:A:C6	2:AA:335:C:C2	3.03	0.47
2:AA:387:U:OP2	28:A4:31:ILE:CD1	2.62	0.47
2:AA:452:G:C2'	2:AA:453:C:H5''	2.44	0.47
2:AA:487:C:C5	2:AA:488:G:C8	3.03	0.47
2:AA:498:G:C8	2:AA:498:G:C3'	2.97	0.47
2:AA:605:C:O2	2:AA:606:U:C5	2.68	0.47
2:AA:621:A:N3	2:AA:621:A:H5'	2.29	0.47
2:AA:679:C:N3	2:AA:680:G:N7	2.62	0.47
2:AA:749:C:C2	2:AA:1618:A:N7	2.83	0.47
2:AA:754:C:C2'	2:AA:755:C:O5'	2.62	0.47
2:AA:821:A:N7	2:AA:946:G:C8	2.83	0.47
2:AA:829:A:OP1	2:AA:831:G:H1'	2.15	0.47
2:AA:849:A:H2'	2:AA:850:C:H5'	1.95	0.47
2:AA:974:G:C3'	26:A2:82:ARG:NH2	2.77	0.47
2:AA:1036:G:C6	2:AA:1120:G:O6	2.68	0.47
2:AA:1102:C:C1'	2:AA:1103:A:H8	2.23	0.47
2:AA:1111:A:H8	2:AA:1111:A:P	2.38	0.47
2:AA:1152:C:C2	2:AA:1153:C:H6	2.33	0.47
2:AA:1191:G:C5	2:AA:1192:G:N7	2.83	0.47
2:AA:1197:G:C5	2:AA:1198:U:H5	2.33	0.47
2:AA:1244:G:H2'	2:AA:1245:G:H8	1.79	0.47
2:AA:1260:G:H2'	2:AA:1260:G:N3	2.30	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1266:G:C2'	2:AA:2012:G:O6	2.53	0.47
2:AA:1275:A:C2	24:A0:16:HIS:CB	2.91	0.47
2:AA:1298:C:C4	2:AA:1643:G:C6	3.03	0.47
2:AA:1309:G:O5'	31:A7:9:ASN:ND2	2.47	0.47
2:AA:1334:G:O2'	2:AA:1335:U:H5'	2.14	0.47
2:AA:1350:C:O2'	2:AA:1351:C:H5'	2.15	0.47
2:AA:1379:A:H2	2:AA:1380:G:OP1	1.98	0.47
2:AA:1507:A:H4'	2:AA:1510:A:H61	1.80	0.47
2:AA:1576:U:H2'	2:AA:1577:C:C1'	2.44	0.47
2:AA:1655:A:O2'	2:AA:1656:C:C5'	2.56	0.47
2:AA:1664:A:C8	2:AA:1664:A:H3'	2.50	0.47
2:AA:1670:C:OP2	2:AA:1671:U:H5	1.98	0.47
2:AA:1684:C:N3	2:AA:1705:G:C2	2.83	0.47
2:AA:1893:C:C5	2:AA:1894:C:N4	2.82	0.47
2:AA:1966:A:O2'	2:AA:1967:C:O5'	2.32	0.47
2:AA:2002:G:C6	2:AA:2003:G:C8	3.03	0.47
2:AA:2014:A:H2	2:AA:2613:U:N3	2.12	0.47
2:AA:2053:G:N2	2:AA:2054:A:C4	2.83	0.47
2:AA:2065:C:H2'	2:AA:2066:C:H6	1.79	0.47
2:AA:2180:U:C2'	2:AA:2181:G:C8	2.77	0.47
2:AA:2262:U:O4'	2:AA:2328:A:C2	2.67	0.47
2:AA:2264:C:C5	2:AA:2265:U:H5	2.32	0.47
2:AA:2269:A:H2'	2:AA:2270:G:C8	2.48	0.47
2:AA:2278:A:H1'	15:AP:19:TYR:HD2	1.79	0.47
2:AA:2320:A:C2	2:AA:2333:A:C2	3.03	0.47
2:AA:2330:G:N2	2:AA:2331:G:H1'	2.30	0.47
2:AA:2344:U:H2'	2:AA:2345:G:OP2	2.15	0.47
2:AA:2349:G:C6	2:AA:2369:A:N1	2.83	0.47
2:AA:2349:G:N3	2:AA:2369:A:C2	2.82	0.47
2:AA:2460:U:C6	2:AA:2461:C:H5	2.33	0.47
2:AA:2585:U:C1'	35:BC:76:A:N7	2.77	0.47
2:AA:2628:C:O2'	2:AA:2781:A:C2'	2.62	0.47
2:AA:2694:G:H8	2:AA:2694:G:O5'	1.98	0.47
2:AA:2731:G:H2'	2:AA:2732:G:C8	2.50	0.47
2:AA:2810:A:H2	2:AA:2892:A:N3	2.12	0.47
2:AA:2875:C:N3	2:AA:2876:G:C5	2.82	0.47
2:AA:2881:C:C4	2:AA:2882:A:N7	2.83	0.47
3:AC:70:LYS:CG	3:AC:157:LYS:HZ3	2.24	0.47
3:AC:200:LYS:CG	3:AC:208:PHE:CE1	2.97	0.47
3:AC:213:TYR:N	3:AC:213:TYR:CD1	2.83	0.47
5:AE:45:LYS:HZ1	5:AE:302:GLY:N	2.07	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:101:THR:OG1	5:AE:103:GLU:OE2	2.24	0.47
5:AE:190:ASN:O	5:AE:192:ILE:C	2.57	0.47
6:AF:144:PHE:C	6:AF:146:ASP:H	2.22	0.47
6:AF:162:VAL:CB	6:AF:165:ASP:OD1	2.41	0.47
7:AG:56:ARG:CG	7:AG:65:GLU:HB2	2.45	0.47
9:AI:3:ILE:HG22	9:AI:7:ILE:HD11	1.97	0.47
10:AK:20:ASN:C	10:AK:22:ALA:H	2.22	0.47
10:AK:35:LEU:O	10:AK:36:ALA:CB	2.63	0.47
12:AM:5:GLU:C	12:AM:6:PHE:CG	2.92	0.47
12:AM:94:GLY:C	12:AM:98:PHE:CE1	2.93	0.47
14:AO:71:GLU:CA	14:AO:74:THR:HG23	2.39	0.47
14:AO:73:VAL:C	14:AO:75:LEU:N	2.70	0.47
14:AO:114:VAL:HG11	14:AO:133:VAL:CA	2.41	0.47
15:AP:25:GLY:O	15:AP:26:LYS:C	2.58	0.47
16:AQ:41:LYS:NZ	16:AQ:68:GLU:CD	2.73	0.47
16:AQ:66:LEU:HB2	16:AQ:69:TYR:OH	2.14	0.47
16:AQ:102:LEU:HD12	16:AQ:102:LEU:N	2.11	0.47
20:AU:15:PRO:C	20:AU:18:GLU:H	2.19	0.47
20:AU:31:LEU:HD23	20:AU:113:GLU:OE2	2.14	0.47
20:AU:46:ASP:OD1	20:AU:98:VAL:CG1	2.63	0.47
21:AV:91:PRO:CG	21:AV:127:PRO:HB3	2.45	0.47
21:AV:138:VAL:HG21	21:AV:140:LYS:HZ2	1.80	0.47
21:AV:138:VAL:CG2	21:AV:140:LYS:NZ	2.78	0.47
22:AW:41:GLU:O	22:AW:43:PRO:HD3	2.15	0.47
24:A0:59:ASP:O	24:A0:60:LEU:C	2.58	0.47
24:A0:96:ARG:HG3	24:A0:98:LEU:CD1	2.39	0.47
25:A1:98:ILE:HD12	25:A1:98:ILE:N	2.30	0.47
27:A3:36:ILE:C	27:A3:37:LEU:HG	2.39	0.47
28:A4:7:PRO:CD	28:A4:56:VAL:HG21	2.40	0.47
28:A4:63:PHE:HE2	28:A4:69:ARG:HH22	1.61	0.47
29:A5:10:LYS:NZ	29:A5:10:LYS:HB2	2.29	0.47
30:A6:54:LYS:O	30:A6:54:LYS:CG	2.62	0.47
32:A8:55:TRP:O	32:A8:56:ALA:C	2.58	0.47
34:BA:9:G:N1	34:BA:26:A:C6	2.83	0.47
34:BA:15:G:O6	34:BA:1396:A:N6	2.47	0.47
34:BA:44:G:H2'	34:BA:45:U:C5'	2.45	0.47
34:BA:52:G:C2	34:BA:53:A:N9	2.83	0.47
34:BA:64:G:C5'	34:BA:66:G:OP1	2.61	0.47
34:BA:114:U:O2	34:BA:115:G:C8	2.68	0.47
34:BA:190(C):C:H1'	34:BA:190(G):G:H22	1.80	0.47
34:BA:229:U:N3	34:BA:230:G:C5	2.82	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:251:G:C5'	34:BA:252:U:OP1	2.62	0.47
34:BA:258:G:C2	34:BA:259:G:C5	3.02	0.47
34:BA:269:C:H2'	34:BA:270:A:O5'	2.15	0.47
34:BA:304:U:H2'	34:BA:305:G:H8	1.80	0.47
34:BA:345:C:O4'	34:BA:346:G:C2	2.68	0.47
34:BA:373:A:O2'	34:BA:374:A:C5'	2.54	0.47
34:BA:437:U:H2'	34:BA:438:G:C4'	2.44	0.47
34:BA:448:A:C2	34:BA:449:C:C5	3.02	0.47
34:BA:498:U:O2'	34:BA:499:A:H5'	2.15	0.47
34:BA:616:G:C2	34:BA:625:G:C6	3.03	0.47
34:BA:625:G:O2'	34:BA:626:U:H5'	2.14	0.47
34:BA:634:C:H2'	34:BA:635:G:H8	1.80	0.47
34:BA:716:A:H2'	34:BA:717:C:O4'	2.15	0.47
34:BA:763:G:O2'	34:BA:764:C:O5'	2.33	0.47
34:BA:891:U:OP2	34:BA:906:G:N1	2.37	0.47
34:BA:930:C:H2'	34:BA:931:C:O5'	2.15	0.47
34:BA:946:A:H2'	34:BA:947:G:N7	2.23	0.47
34:BA:950:U:C2	34:BA:951:G:C8	3.03	0.47
34:BA:1068:G:C8	34:BA:1094:G:H8	2.31	0.47
34:BA:1122:U:O4	34:BA:1123:A:C6	2.68	0.47
34:BA:1227:A:O3'	48:BP:115:LYS:HD3	2.15	0.47
34:BA:1258:G:H1	34:BA:1277:C:N4	2.12	0.47
34:BA:1297:C:H4'	34:BA:1298:C:O5'	2.14	0.47
34:BA:1319:A:H2'	34:BA:1320:C:OP2	2.15	0.47
34:BA:1330:U:OP1	48:BP:25:ILE:N	2.47	0.47
34:BA:1339:A:H2'	34:BA:1340:A:C5'	2.30	0.47
34:BA:1351:U:O4	44:BL:118:LYS:HE2	2.15	0.47
34:BA:1374:A:H2'	34:BA:1375:A:H8	1.78	0.47
34:BA:1478:C:O2	34:BA:1478:C:H2'	2.15	0.47
35:BB:62:A:H2'	35:BB:63:C:O5'	2.13	0.47
36:B1:21:U:C2	36:B1:33:G:O6	2.63	0.47
37:BE:52:GLU:O	37:BE:53:ARG:C	2.57	0.47
37:BE:168:THR:HG21	37:BE:192:SER:HA	1.97	0.47
37:BE:169:LYS:HD3	37:BE:169:LYS:C	2.39	0.47
37:BE:239:VAL:C	37:BE:240:GLN:HG3	2.40	0.47
38:BF:91:LEU:O	38:BF:92:ALA:C	2.57	0.47
39:BG:122:ARG:C	39:BG:134:ASP:HB2	2.40	0.47
42:BJ:20:ASP:HB3	42:BJ:23:VAL:HG23	1.96	0.47
42:BJ:107:ALA:HB1	42:BJ:133:GLY:HA3	1.97	0.47
43:BK:6:ILE:HD11	43:BK:85:ARG:CG	2.45	0.47
43:BK:39:LEU:HA	43:BK:39:LEU:HD13	1.56	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:103:VAL:HG21	43:BK:109:ILE:C	2.40	0.47
44:BL:49:PRO:HG3	44:BL:78:LYS:HD3	1.97	0.47
45:BM:54:PHE:O	45:BM:55:LYS:O	2.32	0.47
46:BN:57:THR:OG1	46:BN:58:PRO:HD2	2.15	0.47
48:BP:81:LEU:CA	48:BP:84:ILE:HG12	2.44	0.47
50:BR:21:ASP:OD2	50:BR:24:SER:HB3	2.15	0.47
52:BT:92:ARG:O	52:BT:93:GLN:C	2.58	0.47
53:BU:36:ASN:HB3	53:BU:40:LEU:HD11	1.97	0.47
53:BU:36:ASN:O	53:BU:37:VAL:C	2.58	0.47
54:BV:36:ARG:NH2	54:BV:72:GLY:HA2	2.30	0.47
55:BW:77:ALA:HA	55:BW:80:ARG:HG3	1.97	0.47
1:AB:9:G:C2	1:AB:112:G:C8	3.03	0.47
1:AB:24:G:C6	1:AB:56:G:C4	3.03	0.47
1:AB:24:G:C2	1:AB:56:G:C2	3.02	0.47
1:AB:53:A:N1	1:AB:54:G:C8	2.82	0.47
1:AB:73:A:C2	1:AB:74:U:C5	3.03	0.47
1:AB:78:A:H2'	1:AB:79:C:H5'	1.96	0.47
1:AB:117:G:C2	1:AB:118:G:N9	2.83	0.47
2:AA:72:U:O2'	2:AA:73:A:OP2	2.32	0.47
2:AA:162:U:H4'	2:AA:171:G:N3	2.30	0.47
2:AA:212:G:H2'	2:AA:213:A:H8	1.80	0.47
2:AA:280:C:C2'	2:AA:281:G:O5'	2.63	0.47
2:AA:280:C:H2'	2:AA:281:G:H3'	1.94	0.47
2:AA:285:C:H2'	2:AA:286:C:C4	2.50	0.47
2:AA:290:G:N2	2:AA:350:U:C2'	2.75	0.47
2:AA:331:A:HO2'	2:AA:332:A:P	2.31	0.47
2:AA:468:G:H2'	2:AA:469:G:C4'	2.44	0.47
2:AA:479:A:C5	2:AA:481:G:C4	3.03	0.47
2:AA:502:A:O5'	2:AA:502:A:H8	1.98	0.47
2:AA:685:A:N9	2:AA:774:A:N6	2.63	0.47
2:AA:711:G:C2	2:AA:712:G:C8	3.02	0.47
2:AA:809:G:C4	2:AA:810:U:C6	3.03	0.47
2:AA:819:A:C2'	2:AA:820:A:O5'	2.64	0.47
2:AA:867:C:O2	2:AA:867:C:C2'	2.61	0.47
2:AA:890:A:H4'	2:AA:892:G:H8	1.79	0.47
2:AA:895:U:C6	2:AA:895:U:O5'	2.68	0.47
2:AA:906:G:H3'	2:AA:907:U:H5''	1.96	0.47
2:AA:993:G:O4'	26:A2:90:PHE:CE2	2.67	0.47
2:AA:1213:A:C5	2:AA:1214:A:N7	2.83	0.47
2:AA:1234:U:C4	2:AA:1235:G:N1	2.83	0.47
2:AA:1334:G:O2'	2:AA:1335:U:C5'	2.63	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1355:G:N1	2:AA:1377:G:C2	2.83	0.47
2:AA:1363:C:P	28:A4:55:ARG:NH2	2.88	0.47
2:AA:1401:G:C6	2:AA:1402:C:N4	2.83	0.47
2:AA:1422:G:C4	2:AA:1423:G:N7	2.82	0.47
2:AA:1509:C:P	2:AA:1510:A:O4'	2.74	0.47
2:AA:1535:U:C1'	2:AA:1538:G:H21	2.25	0.47
2:AA:1608:A:C8	2:AA:1611:C:N4	2.82	0.47
2:AA:1658:C:H2'	2:AA:1658:C:O2	2.15	0.47
2:AA:1754:C:C2'	2:AA:1755:A:O4'	2.63	0.47
2:AA:1812:A:N1	2:AA:1813:G:C4	2.83	0.47
2:AA:1932:A:C2	2:AA:1933:G:C1'	2.98	0.47
2:AA:2019:A:H4'	2:AA:2020:A:OP1	2.15	0.47
2:AA:2020:A:C2	2:AA:2035:G:C6	3.03	0.47
2:AA:2033:A:N1	2:AA:2036:C:C4	2.83	0.47
2:AA:2103:C:C2	2:AA:2104:G:C8	3.03	0.47
2:AA:2273:A:N7	2:AA:2274:A:C8	2.83	0.47
2:AA:2349:G:O6	2:AA:2350:C:C5	2.68	0.47
2:AA:2361:A:OP2	32:A8:27:SER:O	2.32	0.47
2:AA:2380:C:O2'	2:AA:2381:C:H5'	2.14	0.47
2:AA:2392:A:N7	2:AA:2393:A:C4	2.83	0.47
2:AA:2657:A:C8	2:AA:2657:A:C3'	2.98	0.47
2:AA:2691:C:H6	2:AA:2691:C:C3'	2.23	0.47
2:AA:2737:G:H3'	2:AA:2737:G:C8	2.50	0.47
2:AA:2741:A:C8	2:AA:2742:C:C6	3.03	0.47
2:AA:2756:U:H3	2:AA:2758:A:N6	2.13	0.47
2:AA:2799:A:C5'	2:AA:2801:A:OP2	2.62	0.47
2:AA:2839:G:H2'	2:AA:2840:C:H6	1.79	0.47
3:AC:96:GLY:C	3:AC:98:GLU:H	2.23	0.47
3:AC:103:ILE:HB	3:AC:127:LEU:HD11	1.95	0.47
3:AC:117:PRO:O	3:AC:118:ASP:OD1	2.32	0.47
3:AC:148:ASN:HB2	3:AC:151:GLU:HB2	1.95	0.47
4:AD:156:ALA:O	4:AD:157:ALA:C	2.58	0.47
4:AD:167:GLU:C	4:AD:170:TYR:CE1	2.93	0.47
4:AD:197:GLY:O	4:AD:199:ARG:N	2.44	0.47
5:AE:42:ALA:O	5:AE:189:MET:SD	2.73	0.47
5:AE:99:VAL:HG12	5:AE:100:TRP:H	1.79	0.47
5:AE:172:ASP:O	5:AE:173:ARG:C	2.58	0.47
5:AE:221:LYS:HZ3	5:AE:233:ARG:CG	2.23	0.47
6:AF:51:TYR:O	6:AF:52:ALA:C	2.57	0.47
6:AF:106:GLU:CA	6:AF:109:LEU:HD12	2.40	0.47
6:AF:115:LEU:O	6:AF:116:ALA:C	2.57	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:168:ARG:O	6:AF:168:ARG:CD	2.50	0.47
6:AF:197:SER:HB3	6:AF:236:THR:OG1	2.14	0.47
7:AG:13:MET:O	7:AG:14:ARG:C	2.57	0.47
7:AG:19:GLU:OE2	7:AG:139:TYR:CD2	2.68	0.47
7:AG:28:GLY:CA	7:AG:69:ILE:HD13	2.45	0.47
7:AG:140:ARG:HH11	7:AG:144:ARG:NH2	2.13	0.47
8:AH:11:PRO:O	8:AH:14:VAL:CB	2.63	0.47
8:AH:41:THR:HB	8:AH:54:PRO:HD3	1.96	0.47
8:AH:58:LYS:HB3	8:AH:61:ARG:NH1	2.30	0.47
9:AI:23:LYS:CD	9:AJ:47:ALA:N	2.74	0.47
9:AI:26:GLU:OE2	9:AJ:43:PRO:CG	2.60	0.47
9:AI:72:GLN:O	9:AI:75:LYS:HB2	2.14	0.47
9:AI:76:VAL:O	9:AI:80:ILE:HB	2.15	0.47
9:AJ:86:LYS:CE	11:AL:10:LYS:HE3	2.45	0.47
10:AK:2:LYS:HE3	10:AK:2:LYS:HB2	1.73	0.47
12:AM:10:VAL:HG11	12:AM:36:VAL:CG2	2.43	0.47
12:AM:53:ILE:HG23	12:AM:135:ILE:HG12	1.89	0.47
12:AM:103:VAL:C	12:AM:104:TYR:CG	2.93	0.47
13:AN:120:GLU:CD	13:AN:122:ILE:HD11	2.40	0.47
14:AO:76:LEU:HD21	14:AO:96:VAL:HG12	1.97	0.47
14:AO:81:VAL:HA	14:AO:92:ASP:OD2	2.15	0.47
15:AP:17:ARG:HD3	15:AP:17:ARG:H	1.80	0.47
15:AP:84:ARG:C	15:AP:85:ILE:HG23	2.41	0.47
15:AP:156:ASN:OD1	15:AP:156:ASN:C	2.58	0.47
16:AQ:49:THR:O	16:AQ:49:THR:HG22	2.14	0.47
17:AR:8:TYR:O	17:AR:9:CYS:C	2.58	0.47
18:AS:49:LYS:HD3	18:AS:50:VAL:CA	2.44	0.47
19:AT:2:TRP:N	19:AT:2:TRP:CD1	2.82	0.47
19:AT:3:ASP:C	22:AW:24:LYS:HD2	2.40	0.47
19:AT:31:ARG:HE	19:AT:31:ARG:N	2.12	0.47
20:AU:23:VAL:O	20:AU:24:ARG:C	2.57	0.47
20:AU:66:ASP:C	20:AU:71:VAL:O	2.58	0.47
22:AW:34:GLN:O	22:AW:37:GLY:N	2.48	0.47
22:AW:45:ARG:HH21	22:AW:49:LEU:HD21	1.74	0.47
23:AX:15:TYR:N	23:AX:15:TYR:CD1	2.78	0.47
24:A0:22:ARG:O	24:A0:23:ASN:C	2.58	0.47
24:A0:53:HIS:HA	24:A0:56:LYS:CG	2.37	0.47
25:A1:40:LEU:HD11	26:A2:83:ARG:CZ	2.44	0.47
25:A1:74:MET:CE	25:A1:78:THR:CG2	2.88	0.47
25:A1:76:TYR:O	25:A1:80:ILE:HD12	2.14	0.47
26:A2:61:VAL:CG1	26:A2:62:GLU:N	2.78	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:83:ARG:O	26:A2:84:THR:HG23	2.14	0.47
27:A3:85:GLN:O	27:A3:86:THR:C	2.55	0.47
30:A6:19:GLY:C	30:A6:42:PRO:HB3	2.40	0.47
30:A6:21:TYR:O	30:A6:22:TYR:CD2	2.68	0.47
31:A7:5:TYR:O	31:A7:7:PRO:HD3	2.15	0.47
31:A7:25:LYS:CA	31:A7:25:LYS:CE	2.81	0.47
32:A8:9:MET:O	32:A8:10:ALA:C	2.57	0.47
32:A8:64:ARG:HG2	32:A8:64:ARG:NH1	2.30	0.47
34:BA:5:U:O4	39:BG:86:LYS:CE	2.61	0.47
34:BA:51:A:C2'	34:BA:52:G:OP2	2.62	0.47
34:BA:65:U:C5	34:BA:381:C:C4	3.03	0.47
34:BA:130:A:C2	34:BA:263:A:H2	2.16	0.47
34:BA:131:C:O2'	34:BA:132:C:H5'	2.15	0.47
34:BA:160:A:H8	34:BA:160:A:O5'	1.99	0.47
34:BA:265:G:H4'	52:BT:66:SER:H	1.80	0.47
34:BA:303:A:HO2'	34:BA:555:C:HO2'	1.52	0.47
34:BA:394:G:C4	34:BA:395:C:H5	2.28	0.47
34:BA:511:C:H42	34:BA:541:G:N2	2.13	0.47
34:BA:515:G:N3	34:BA:537:G:C2	2.83	0.47
34:BA:580:U:C2	34:BA:581:G:C8	3.03	0.47
34:BA:581:G:O3'	50:BR:64:ARG:NH1	2.48	0.47
34:BA:618:C:H5	34:BA:621:A:OP2	1.98	0.47
34:BA:629:G:H2'	34:BA:630:G:C8	2.46	0.47
34:BA:701:C:O2	34:BA:703:G:N1	2.48	0.47
34:BA:781:A:H2'	34:BA:782:A:O4'	2.15	0.47
34:BA:790:A:N6	34:BA:791:G:C2	2.82	0.47
34:BA:815:A:N9	34:BA:1529:G:C6	2.83	0.47
34:BA:855:G:H2'	34:BA:856:C:C5'	2.45	0.47
34:BA:865:A:H2'	34:BA:866:C:C1'	2.45	0.47
34:BA:960:U:C2	34:BA:1225:A:N7	2.83	0.47
34:BA:970:C:N3	48:BP:126:LYS:CD	2.76	0.47
34:BA:991:U:C4	34:BA:1212:U:O2	2.68	0.47
34:BA:1033:G:N1	34:BA:1034:G:C5	2.83	0.47
34:BA:1033:G:N3	34:BA:1034:G:C8	2.83	0.47
34:BA:1118:C:O4'	34:BA:1179:A:C1'	2.63	0.47
34:BA:1128:C:N4	34:BA:1139:G:N1	2.63	0.47
34:BA:1179:A:O3'	44:BL:103:THR:OG1	2.24	0.47
34:BA:1378:C:N4	34:BA:1379:G:C4	2.83	0.47
34:BA:1510:U:H3	34:BA:1525:G:H1	1.63	0.47
34:BA:1536:C:N4	36:B1:53:G:H1	2.12	0.47
35:BB:33:U:H6	35:BB:33:U:O5'	1.98	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:27:C:C2	35:BC:28:C:C5	3.02	0.47
37:BE:57:PHE:HD1	37:BE:199:TYR:HE1	1.59	0.47
37:BE:96:ARG:H	37:BE:96:ARG:CD	2.28	0.47
37:BE:123:ALA:O	37:BE:124:SER:O	2.33	0.47
37:BE:147:LYS:HB2	37:BE:147:LYS:HZ2	1.80	0.47
38:BF:20:SER:OG	38:BF:40:ARG:NH2	2.43	0.47
38:BF:78:GLY:HA3	38:BF:83:ARG:H	1.80	0.47
39:BG:20:TYR:C	39:BG:22:LYS:N	2.67	0.47
39:BG:94:LEU:CD1	39:BG:200:GLU:OE2	2.63	0.47
39:BG:106:TYR:O	39:BG:107:ARG:C	2.57	0.47
40:BH:88:LYS:CB	40:BH:123:LEU:O	2.62	0.47
40:BH:122:GLU:C	40:BH:123:LEU:HD22	2.34	0.47
42:BJ:16:LEU:C	42:BJ:17:VAL:HG23	2.39	0.47
42:BJ:70:LYS:HA	42:BJ:100:ALA:HB2	1.97	0.47
42:BJ:126:ASP:HB2	42:BJ:131:LYS:O	2.15	0.47
43:BK:1:MET:O	43:BK:3:THR:N	2.47	0.47
43:BK:36:LEU:HA	43:BK:39:LEU:HD23	1.97	0.47
43:BK:44:PHE:O	43:BK:64:LYS:HD3	2.14	0.47
44:BL:3:GLN:CA	44:BL:20:ARG:HG2	2.45	0.47
44:BL:47:LEU:O	44:BL:48:GLU:C	2.58	0.47
44:BL:74:ILE:HA	44:BL:77:ILE:CG1	2.45	0.47
45:BM:51:ARG:O	45:BM:52:GLY:O	2.32	0.47
46:BN:50:TYR:CD1	46:BN:54:ARG:CB	2.94	0.47
48:BP:49:THR:O	48:BP:52:GLU:N	2.48	0.47
50:BR:10:LYS:NZ	50:BR:14:GLU:CD	2.73	0.47
51:BS:30:GLY:C	51:BS:31:LYS:O	2.53	0.47
52:BT:55:ASP:HA	52:BT:79:SER:HA	1.97	0.47
53:BU:23:LYS:HD2	53:BU:57:GLY:O	2.14	0.47
54:BV:32:LYS:HB2	54:BV:57:HIS:CE1	2.50	0.47
55:BW:73:HIS:O	55:BW:76:ALA:N	2.48	0.47
55:BW:86:ARG:CG	55:BW:87:LYS:H	2.17	0.47
56:BX:6:ARG:HD3	56:BX:15:ARG:HH12	1.80	0.47
56:BX:10:ARG:HH21	56:BX:13:ILE:CD1	2.22	0.47
1:AB:18:G:H2'	1:AB:19:G:C8	2.50	0.46
2:AA:6:A:H4'	12:AM:5:GLU:O	2.16	0.46
2:AA:7:G:C5'	12:AM:6:PHE:HD2	2.28	0.46
2:AA:33:U:O2'	2:AA:34:C:H6	1.92	0.46
2:AA:33:U:H1'	2:AA:34:C:C5	2.50	0.46
2:AA:44:A:H2	2:AA:435:C:H41	1.62	0.46
2:AA:89:G:C4	2:AA:90:U:H5	2.33	0.46
2:AA:118:A:H1'	2:AA:178:G:O4'	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:122:G:H21	2:AA:130:C:H1'	1.80	0.46
2:AA:134:C:N3	2:AA:135:G:C8	2.83	0.46
2:AA:137(A):G:H5''	2:AA:137(A):G:N2	2.29	0.46
2:AA:199:A:C2'	2:AA:2433:A:N6	2.78	0.46
2:AA:243:U:H3'	2:AA:244:A:H8	1.80	0.46
2:AA:274:G:H2'	2:AA:275:G:C5'	2.38	0.46
2:AA:352:G:C4	2:AA:353:G:C8	3.03	0.46
2:AA:447:A:N7	2:AA:454:A:N6	2.62	0.46
2:AA:543:C:C2	2:AA:551:G:N2	2.84	0.46
2:AA:548:A:H5''	2:AA:549:G:O5'	2.14	0.46
2:AA:579:G:O2'	2:AA:2019:A:OP1	2.33	0.46
2:AA:655:A:O4'	2:AA:655:A:OP1	2.32	0.46
2:AA:656:G:OP2	2:AA:656:G:H8	1.94	0.46
2:AA:659:C:H4'	6:AF:102:LEU:O	2.15	0.46
2:AA:711:G:C2'	2:AA:712:G:H5'	2.46	0.46
2:AA:721:C:N3	2:AA:722:A:N7	2.63	0.46
2:AA:744:G:H2'	2:AA:745:G:O5'	2.15	0.46
2:AA:744:G:N2	2:AA:754:C:C2	2.83	0.46
2:AA:766:C:C2'	2:AA:767:U:H5'	2.45	0.46
2:AA:837:C:H6	2:AA:837:C:O5'	1.98	0.46
2:AA:952:G:C2'	2:AA:953:A:O5'	2.63	0.46
2:AA:984:A:C5'	2:AA:985:C:H41	2.27	0.46
2:AA:1004:C:C2'	2:AA:1005:C:OP2	2.63	0.46
2:AA:1009:A:N1	2:AA:1010:A:C2	2.82	0.46
2:AA:1012:U:C2	12:AM:21:ARG:NH1	2.84	0.46
2:AA:1017:G:C2	2:AA:1146:C:C2	3.03	0.46
2:AA:1044:G:OP1	2:AA:1046:A:H3'	2.15	0.46
2:AA:1085:A:OP2	9:AI:37:VAL:HG23	2.15	0.46
2:AA:1127:A:C6	2:AA:2518:A:C2	3.03	0.46
2:AA:1136:G:O2'	2:AA:1137:G:H5'	2.15	0.46
2:AA:1339:G:C1'	2:AA:1393:A:C2	2.98	0.46
2:AA:1341:U:C4	2:AA:1395:A:H2	2.33	0.46
2:AA:1439:A:C2'	2:AA:1440:G:C5'	2.81	0.46
2:AA:1520:U:C3'	2:AA:1521:G:C5'	2.86	0.46
2:AA:1565:C:N3	2:AA:1567:A:H1'	2.31	0.46
2:AA:1568:G:C5'	4:AD:60:GLN:NE2	2.44	0.46
2:AA:1569:A:H2'	2:AA:1570:A:H8	1.81	0.46
2:AA:1613:G:C6	2:AA:1619:G:C6	3.03	0.46
2:AA:1690:A:N6	2:AA:1697:G:C2	2.83	0.46
2:AA:1754:C:N3	2:AA:1755:A:C5	2.83	0.46
2:AA:1799:G:N2	4:AD:153:LEU:CD1	2.78	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1911:U:C2'	2:AA:1912:A:H5'	2.43	0.46
2:AA:1924:C:H2'	2:AA:1925:C:H6	1.80	0.46
2:AA:2004:G:C6	2:AA:2005:A:C2	3.03	0.46
2:AA:2018:G:O2'	2:AA:2019:A:C5'	2.61	0.46
2:AA:2046:G:C1'	29:A5:22:HIS:HD1	2.27	0.46
2:AA:2076:U:OP2	2:AA:2238:G:N2	2.46	0.46
2:AA:2092:U:C2	2:AA:2225:A:O2'	2.67	0.46
2:AA:2180:U:O2'	2:AA:2181:G:O4'	2.31	0.46
2:AA:2281:C:HO2'	2:AA:2282:G:P	2.34	0.46
2:AA:2306:C:C6	2:AA:2306:C:C3'	2.98	0.46
2:AA:2346:A:O2'	2:AA:2347:C:P	2.72	0.46
2:AA:2452:C:H2'	2:AA:2453:A:O4'	2.14	0.46
2:AA:2623:G:C2'	2:AA:2624:G:O5'	2.63	0.46
2:AA:2633:G:N1	2:AA:2634:G:C6	2.82	0.46
2:AA:2700:C:C3'	2:AA:2701:C:C5'	2.88	0.46
2:AA:2717:G:C4	2:AA:2718:G:C8	3.04	0.46
2:AA:2718:G:H2'	2:AA:2719:G:O5'	2.15	0.46
2:AA:2794:C:H2'	2:AA:2794:C:O2	2.14	0.46
3:AC:29:VAL:CG2	3:AC:216:THR:HG23	2.45	0.46
3:AC:139:ASN:OD1	3:AC:142:ALA:CB	2.62	0.46
3:AC:163:PHE:CG	3:AC:192:PHE:HE1	2.33	0.46
4:AD:93:ILE:HD12	4:AD:93:ILE:HA	1.68	0.46
4:AD:205:VAL:HG23	4:AD:206:LYS:H	1.80	0.46
5:AE:196:GLY:CA	5:AE:297:LYS:HZ3	2.27	0.46
8:AH:7:PRO:CA	8:AH:50:THR:OG1	2.63	0.46
8:AH:39:ASP:O	8:AH:39:ASP:CG	2.58	0.46
8:AH:117:GLU:OE1	8:AH:118:GLU:N	2.48	0.46
8:AH:132:VAL:CG1	8:AH:140:VAL:HG13	2.44	0.46
9:AI:29:PHE:O	9:AI:34:ALA:N	2.49	0.46
9:AI:103:LYS:HD3	9:AI:114:ILE:CD1	2.45	0.46
10:AK:124:LEU:HD11	10:AK:146:THR:C	2.40	0.46
11:AL:124:ALA:O	11:AL:125:MET:C	2.58	0.46
14:AO:113:GLN:HB2	14:AO:115:ARG:NH2	2.30	0.46
15:AP:67:ALA:O	15:AP:70:ARG:CB	2.62	0.46
18:AS:18:ARG:O	18:AS:19:LEU:C	2.59	0.46
19:AT:23:LYS:C	19:AT:24:LEU:HD12	2.40	0.46
21:AV:19:ILE:HG23	21:AV:20:ALA:N	2.30	0.46
21:AV:39:PHE:N	21:AV:39:PHE:CD2	2.81	0.46
21:AV:122:ILE:C	21:AV:123:VAL:HG13	2.40	0.46
22:AW:19:GLU:CD	22:AW:20:LEU:N	2.73	0.46
22:AW:43:PRO:HG2	22:AW:46:ILE:HG12	1.94	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:4:ILE:HG12	26:A2:13:ARG:HD3	1.96	0.46
26:A2:49:GLU:HB2	26:A2:54:TYR:CE2	2.49	0.46
26:A2:71:ILE:O	26:A2:72:ARG:HG3	2.14	0.46
28:A4:43:TRP:HB2	28:A4:55:ARG:O	2.14	0.46
29:A5:6:VAL:O	29:A5:7:PRO:C	2.57	0.46
30:A6:28:ARG:CG	30:A6:30:ASN:HB3	2.42	0.46
32:A8:30:ARG:CG	32:A8:31:HIS:H	2.24	0.46
33:A9:17:VAL:HG21	33:A9:26:ILE:CD1	2.45	0.46
34:BA:55:A:H61	34:BA:357:G:H1'	1.78	0.46
34:BA:61:G:C2'	34:BA:62:U:O4'	2.49	0.46
34:BA:81:U:C2	34:BA:83:U:P	3.08	0.46
34:BA:189:G:C6	34:BA:190:C:N4	2.83	0.46
34:BA:232:G:C5	34:BA:233:C:C5	3.03	0.46
34:BA:322:C:O2'	55:BW:23:ARG:HB2	2.15	0.46
34:BA:451:A:O2'	34:BA:452:A:O4'	2.33	0.46
34:BA:452:A:C4	34:BA:453:A:C8	3.03	0.46
34:BA:540:G:H8	34:BA:540:G:O5'	1.96	0.46
34:BA:741:G:O2'	34:BA:742:G:C5'	2.58	0.46
34:BA:830:G:C2'	34:BA:831:U:H5'	2.46	0.46
34:BA:872:A:C4	34:BA:874:G:C8	3.04	0.46
34:BA:910:C:O2'	34:BA:911:U:H5'	2.15	0.46
34:BA:922:G:C6	34:BA:923:A:C6	3.03	0.46
34:BA:960:U:N3	34:BA:1225:A:C6	2.83	0.46
34:BA:977:A:N3	34:BA:977:A:C2'	2.75	0.46
34:BA:977:A:N1	34:BA:1224:G:C4	2.83	0.46
34:BA:1089:G:C2	34:BA:1097:C:N3	2.83	0.46
34:BA:1104:G:C2'	34:BA:1105:A:H5'	2.46	0.46
34:BA:1108:G:H2'	34:BA:1109:C:H5'	1.98	0.46
34:BA:1125:U:O2'	34:BA:1126:U:P	2.73	0.46
34:BA:1153:C:H2'	34:BA:1154:G:O4'	2.15	0.46
34:BA:1227:A:C8	34:BA:1228:C:C1'	2.98	0.46
34:BA:1351:U:O4	44:BL:118:LYS:HE3	2.15	0.46
34:BA:1367:C:OP2	44:BL:117:HIS:CE1	2.69	0.46
34:BA:1401:G:C2'	34:BA:1402:C:C5'	2.93	0.46
34:BA:1459:C:O5'	55:BW:27:LYS:NZ	2.45	0.46
34:BA:1465:C:N3	34:BA:1466:C:C4	2.83	0.46
34:BA:1503:A:C8	36:B1:57:A:C6	3.03	0.46
34:BA:1504:G:C8	34:BA:1504:G:C3'	2.97	0.46
34:BA:1539:C:O2'	34:BA:1540:U:H5''	2.15	0.46
34:BA:1540:U:H2'	34:BA:1541:U:C4'	2.46	0.46
36:B1:9:C:C2	36:B1:10:U:C5	3.03	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:21:ARG:HA	37:BE:39:ILE:CG1	2.18	0.46
37:BE:48:MET:SD	37:BE:51:LEU:HD12	2.55	0.46
37:BE:69:LEU:HD22	37:BE:70:PHE:N	2.30	0.46
37:BE:77:ALA:HB1	37:BE:211:ILE:HG21	1.97	0.46
37:BE:223:ILE:HA	37:BE:226:ARG:CD	2.45	0.46
38:BF:130:VAL:HG12	38:BF:134:ILE:CD1	2.45	0.46
39:BG:114:ARG:HA	39:BG:114:ARG:HD3	1.71	0.46
40:BH:48:ALA:HB3	40:BH:54:ALA:N	2.30	0.46
41:BI:77:ARG:O	41:BI:78:GLU:C	2.57	0.46
41:BI:89:MET:HE2	53:BU:75:ILE:HG21	1.96	0.46
42:BJ:14:PRO:HB2	42:BJ:19:GLY:O	2.15	0.46
42:BJ:16:LEU:HD23	42:BJ:16:LEU:N	2.30	0.46
42:BJ:44:TYR:C	42:BJ:46:ALA:N	2.69	0.46
43:BK:83:ILE:HB	43:BK:137:VAL:CG2	2.45	0.46
43:BK:89:PRO:CB	43:BK:92:ARG:NH2	2.77	0.46
46:BN:30:VAL:O	46:BN:42:TRP:HB2	2.15	0.46
47:BO:72:GLY:CA	47:BO:102:ARG:NH1	2.70	0.46
47:BO:84:LEU:HG	47:BO:85:ILE:H	1.80	0.46
47:BO:88:GLY:N	47:BO:98:TYR:HA	2.30	0.46
47:BO:120:TYR:O	47:BO:122:THR:OG1	2.33	0.46
49:BQ:4:LYS:O	49:BQ:7:ILE:HG13	2.14	0.46
49:BQ:14:PRO:CB	49:BQ:17:LYS:O	2.62	0.46
52:BT:34:LYS:CG	52:BT:35:VAL:N	2.78	0.46
53:BU:31:LEU:HD13	53:BU:65:ILE:CD1	2.45	0.46
1:AB:10:C:O2'	1:AB:11:C:H5'	2.15	0.46
2:AA:8:A:C4	2:AA:9:U:C5	3.03	0.46
2:AA:136:G:OP2	2:AA:136:G:H8	1.97	0.46
2:AA:163:U:OP2	2:AA:163:U:H6	1.98	0.46
2:AA:221:A:N6	2:AA:266:G:C4	2.80	0.46
2:AA:222:A:O5'	2:AA:271(B):G:N2	2.48	0.46
2:AA:257:A:C8	2:AA:257:A:C3'	2.99	0.46
2:AA:266:G:C8	2:AA:266:G:C3'	2.98	0.46
2:AA:270(W):G:H2'	2:AA:270(X):G:H8	1.79	0.46
2:AA:271(C):U:O4	2:AA:421:U:C2'	2.64	0.46
2:AA:432:A:C2	2:AA:433:C:N1	2.83	0.46
2:AA:487:C:N4	2:AA:488:G:C5	2.83	0.46
2:AA:532:A:OP2	2:AA:2021:C:C4	2.68	0.46
2:AA:542:C:H2'	2:AA:543:C:H6	1.79	0.46
2:AA:562:U:C6	2:AA:2036:C:H5''	2.50	0.46
2:AA:563:G:C6	2:AA:2018:G:C5	3.03	0.46
2:AA:569:U:C4'	2:AA:946:G:H1'	2.45	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:627:A:O2'	2:AA:628:G:O4'	2.33	0.46
2:AA:669:G:N3	2:AA:801:G:C6	2.83	0.46
2:AA:673:C:H4'	6:AF:82:GLN:CD	2.41	0.46
2:AA:717:G:C2	2:AA:718:A:C1'	2.88	0.46
2:AA:780:G:C5	2:AA:782:A:N6	2.83	0.46
2:AA:855:G:O2'	27:A3:25:LYS:HD2	2.15	0.46
2:AA:943:U:C2'	2:AA:944:G:OP1	2.63	0.46
2:AA:950:G:C5	2:AA:951:C:C4	3.03	0.46
2:AA:1058:G:H21	11:AL:117:ASN:ND2	2.08	0.46
2:AA:1069:A:C3'	2:AA:1070:A:H5''	2.45	0.46
2:AA:1074:G:C4	2:AA:1075:C:H5	2.33	0.46
2:AA:1109:C:C5	2:AA:1110:G:C6	3.04	0.46
2:AA:1138:G:OP1	12:AM:57:TYR:OH	2.33	0.46
2:AA:1159:U:H2'	2:AA:1160:G:O5'	2.15	0.46
2:AA:1206:G:C1'	2:AA:1242:A:N6	2.72	0.46
2:AA:1212:G:N7	2:AA:1235:G:C6	2.83	0.46
2:AA:1212:G:O2'	2:AA:1213:A:O5'	2.32	0.46
2:AA:1218:C:C2	2:AA:1219:G:C8	3.03	0.46
2:AA:1224:G:H1'	26:A2:86:HIS:HD2	1.80	0.46
2:AA:1464:C:H2'	2:AA:1465:G:C8	2.49	0.46
2:AA:1472:A:N1	2:AA:1519:G:C6	2.84	0.46
2:AA:1535:U:O4'	2:AA:1535:U:O2	2.29	0.46
2:AA:1544:C:H2'	2:AA:1545:A:C4'	2.45	0.46
2:AA:1750:G:O2'	2:AA:1751:C:C5'	2.63	0.46
2:AA:1992:G:N2	2:AA:1995:U:C4	2.83	0.46
2:AA:2026:C:O2'	2:AA:2027:G:H5'	2.16	0.46
2:AA:2029:G:C8	2:AA:2029:G:O5'	2.55	0.46
2:AA:2030:A:O3'	2:AA:2031:A:O4'	2.32	0.46
2:AA:2057:A:C5	2:AA:2058:A:N7	2.82	0.46
2:AA:2108:C:C5	2:AA:2109:U:C4	3.03	0.46
2:AA:2246:G:C2	2:AA:2247:A:N7	2.83	0.46
2:AA:2265:U:O2	2:AA:2265:U:H2'	2.15	0.46
2:AA:2340:G:N1	2:AA:2341:G:C5	2.84	0.46
2:AA:2378:A:C4	16:AQ:26:LEU:HD21	2.48	0.46
2:AA:2577:A:H8	2:AA:2577:A:O5'	1.98	0.46
2:AA:2620:C:P	5:AE:248:SER:HA	2.55	0.46
2:AA:2652:C:O2'	2:AA:2653:U:H5'	2.15	0.46
2:AA:2694:G:N1	2:AA:2695:C:C5	2.84	0.46
2:AA:2697:G:O2'	2:AA:2698:U:H5'	2.14	0.46
2:AA:2745:C:C2'	8:AH:142:GLU:OE2	2.64	0.46
2:AA:2817:G:C2'	2:AA:2818:G:O5'	2.63	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2888:C:C2	2:AA:2889:C:C5	3.03	0.46
2:AA:2899:G:HO2'	2:AA:2900:A:C5'	2.28	0.46
3:AC:42:GLU:CG	3:AC:173:ALA:O	2.63	0.46
4:AD:76:ARG:HB3	4:AD:113:MET:CB	2.45	0.46
4:AD:131:LEU:CB	4:AD:171:VAL:HG21	2.45	0.46
4:AD:164:LEU:HD13	4:AD:174:ARG:HB2	1.97	0.46
4:AD:198:GLY:C	4:AD:200:THR:H	2.23	0.46
5:AE:75:THR:H	5:AE:293:TYR:HE2	1.63	0.46
5:AE:205:THR:OG1	5:AE:258:TYR:CA	2.63	0.46
5:AE:221:LYS:HB2	5:AE:222:ARG:HD2	1.97	0.46
7:AG:38:GLU:HG2	7:AG:71:ALA:HB1	1.98	0.46
7:AG:49:PRO:HB2	7:AG:72:LYS:CA	2.45	0.46
9:AI:43:PRO:HG3	9:AJ:26:GLU:OE1	2.15	0.46
9:AI:92:VAL:O	9:AI:95:ALA:HB3	2.14	0.46
10:AK:6:LEU:HB3	10:AK:36:ALA:HB2	1.98	0.46
10:AK:48:GLU:O	10:AK:52:GLN:HG3	2.15	0.46
10:AK:103:GLN:NE2	10:AK:109:LYS:HA	2.30	0.46
10:AK:115:ILE:H	10:AK:131:VAL:HG13	1.81	0.46
11:AL:38:PHE:HZ	11:AL:60:VAL:HG12	1.80	0.46
12:AM:61:VAL:CG1	12:AM:62:ASP:N	2.78	0.46
12:AM:73:LYS:O	12:AM:141:ALA:N	2.48	0.46
14:AO:125:PHE:H	14:AO:130:ARG:NE	2.08	0.46
15:AP:91:HIS:O	15:AP:111:THR:HA	2.16	0.46
18:AS:15:ARG:O	18:AS:16:LYS:C	2.59	0.46
19:AT:9:HIS:NE2	19:AT:61:GLU:CD	2.74	0.46
19:AT:42:GLU:CG	19:AT:49:VAL:HG23	2.45	0.46
20:AU:33:GLU:CG	20:AU:34:GLU:N	2.77	0.46
20:AU:47:THR:HG22	20:AU:100:ASP:N	2.29	0.46
21:AV:6:LYS:HA	21:AV:32:PHE:O	2.15	0.46
22:AW:19:GLU:O	22:AW:20:LEU:C	2.54	0.46
22:AW:30:ALA:O	22:AW:34:GLN:HB2	2.15	0.46
22:AW:51:LYS:O	22:AW:52:ALA:C	2.57	0.46
23:AX:3:ARG:CG	23:AX:60:GLU:HG2	2.45	0.46
23:AX:53:LEU:CD2	23:AX:54:VAL:HG13	2.45	0.46
24:A0:34:ILE:HG23	24:A0:35:THR:H	1.79	0.46
24:A0:67:LEU:O	24:A0:69:ASP:N	2.48	0.46
26:A2:20:ILE:CD1	26:A2:67:LYS:NZ	2.78	0.46
26:A2:23:GLU:OE1	26:A2:25:LEU:HG	2.16	0.46
27:A3:11:LYS:C	27:A3:12:ASN:O	2.57	0.46
28:A4:43:TRP:C	28:A4:61:LYS:HE3	2.39	0.46
33:A9:7:VAL:HG13	33:A9:25:VAL:HG21	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:14:U:O2	34:BA:16:A:C5	2.68	0.46
34:BA:35:G:N2	47:BO:118:SER:OG	2.48	0.46
34:BA:75:G:H2'	34:BA:76:C:C6	2.50	0.46
34:BA:126:G:C2	34:BA:127:G:C4	3.03	0.46
34:BA:132:C:N3	34:BA:231:G:N2	2.63	0.46
34:BA:181:G:C2	34:BA:195:A:C5	3.03	0.46
34:BA:190(A):C:C2'	34:BA:190(B):C:H5'	2.45	0.46
34:BA:320:C:H42	34:BA:333:G:H1	0.58	0.46
34:BA:459:G:C5	34:BA:461:C:OP2	2.68	0.46
34:BA:531:U:OP2	34:BA:531:U:H6	1.97	0.46
34:BA:570:G:C4'	34:BA:820:U:C6	2.97	0.46
34:BA:578:C:O2	34:BA:728:A:C2	2.68	0.46
34:BA:626:U:H5''	51:BS:38:TYR:CE2	2.49	0.46
34:BA:654:G:H8	34:BA:654:G:O5'	1.97	0.46
34:BA:668:G:H2'	34:BA:669:U:C6	2.46	0.46
34:BA:851:G:O2'	34:BA:852:G:H5'	2.16	0.46
34:BA:898:G:H2'	34:BA:900:A:OP2	2.15	0.46
34:BA:924:C:H5'	34:BA:1399:C:OP2	2.16	0.46
34:BA:950:U:OP2	48:BP:102:ARG:NH2	2.49	0.46
34:BA:979:C:OP1	34:BA:1223:C:N4	2.48	0.46
34:BA:991:U:O2'	34:BA:993:G:C1'	2.53	0.46
34:BA:1068:G:C6	34:BA:1108:G:N3	2.83	0.46
34:BA:1086:U:C4	34:BA:1099:G:C6	3.03	0.46
34:BA:1113:C:H2'	34:BA:1114:C:H6	1.81	0.46
34:BA:1128:C:O2'	34:BA:1130:A:C8	2.67	0.46
34:BA:1206:G:O2'	34:BA:1207:G:H5'	2.15	0.46
34:BA:1294:G:N1	34:BA:1295:G:C6	2.84	0.46
34:BA:1428:A:C5	34:BA:1429:C:N4	2.83	0.46
35:BB:75:C:C6	35:BB:76:A:C2	2.86	0.46
35:BC:4:G:C5	35:BC:5:A:C8	3.02	0.46
35:BC:10:G:C8	35:BC:26:G:N2	2.83	0.46
36:B1:10:U:H2'	36:B1:11:U:O4'	2.15	0.46
36:B1:36:A:C6	36:B1:37:C:H1'	2.50	0.46
37:BE:71:VAL:HG22	37:BE:93:VAL:H	1.80	0.46
37:BE:74:LYS:C	37:BE:76:GLN:H	2.23	0.46
37:BE:145:LEU:O	37:BE:149:LEU:CB	2.29	0.46
37:BE:178:ARG:O	43:BK:71:GLY:O	2.34	0.46
38:BF:153:VAL:CG2	38:BF:166:GLU:HB3	2.44	0.46
39:BG:94:LEU:CD1	39:BG:200:GLU:CD	2.88	0.46
39:BG:148:VAL:HG12	39:BG:152:SER:HB2	1.97	0.46
40:BH:122:GLU:OE1	40:BH:126:ARG:HG2	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BI:47:ARG:CG	41:BI:47:ARG:HH11	2.28	0.46
42:BJ:8:GLU:O	42:BJ:8:GLU:OE1	2.34	0.46
42:BJ:25:ALA:O	42:BJ:28:ASN:CB	2.63	0.46
42:BJ:121:ALA:O	42:BJ:125:MET:HG2	2.15	0.46
42:BJ:137:LYS:O	42:BJ:140:ASP:HB2	2.14	0.46
42:BJ:149:ARG:O	42:BJ:150:ALA:C	2.57	0.46
44:BL:50:LEU:HD21	44:BL:55:ALA:O	2.15	0.46
45:BM:39:PRO:O	45:BM:40:LEU:CB	2.64	0.46
45:BM:48:THR:HA	45:BM:62:HIS:HB3	1.96	0.46
46:BN:21:ILE:HD13	46:BN:95:ILE:HG23	1.98	0.46
46:BN:54:ARG:N	46:BN:54:ARG:HD3	2.29	0.46
47:BO:8:ASN:C	47:BO:12:ARG:HH21	2.23	0.46
47:BO:70:ILE:HA	47:BO:100:ILE:HG12	1.97	0.46
48:BP:34:LEU:HD13	48:BP:41:PRO:CB	2.45	0.46
48:BP:55:ARG:O	48:BP:57:ARG:N	2.47	0.46
51:BS:3:LYS:CE	51:BS:24:ALA:HB2	2.44	0.46
54:BV:11:VAL:CG1	54:BV:38:SER:OG	2.58	0.46
1:AB:1:U:C6	1:AB:1:U:H3'	2.50	0.46
1:AB:8:U:O2	1:AB:9:G:N7	2.49	0.46
1:AB:56:G:C4'	1:AB:57:A:H5'	2.35	0.46
1:AB:61:G:N1	1:AB:62:C:N4	2.63	0.46
1:AB:69:G:N1	1:AB:70:C:C4	2.84	0.46
2:AA:131:G:H1	2:AA:149:A:N6	2.11	0.46
2:AA:145:G:C4	2:AA:146:G:C8	3.04	0.46
2:AA:175:G:O2'	2:AA:176:G:H5'	2.15	0.46
2:AA:195:A:P	2:AA:196:A:H4'	2.53	0.46
2:AA:202:U:H6	2:AA:202:U:H3'	1.80	0.46
2:AA:221:A:C8	2:AA:221:A:C3'	2.94	0.46
2:AA:270:A:C2'	2:AA:270(A):A:H4'	2.37	0.46
2:AA:271(C):U:O2'	2:AA:271:G:O5'	2.33	0.46
2:AA:302:C:C2'	2:AA:303:U:O5'	2.63	0.46
2:AA:332:A:O2'	2:AA:333:G:P	2.73	0.46
2:AA:500:G:H8	2:AA:500:G:O5'	1.99	0.46
2:AA:558:G:P	12:AM:92:GLN:N	2.88	0.46
2:AA:614:U:C5	2:AA:615:G:O2'	2.68	0.46
2:AA:670:A:H4'	2:AA:671:C:OP1	2.14	0.46
2:AA:725:G:C2	2:AA:726:G:N2	2.83	0.46
2:AA:777:A:C2	2:AA:778:G:C5	3.03	0.46
2:AA:777:A:H2'	2:AA:778:G:C5'	2.45	0.46
2:AA:817:C:H6	2:AA:817:C:O5'	1.99	0.46
2:AA:822:U:C2	2:AA:823:G:C8	3.03	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:856:C:H4'	27:A3:24:LYS:HB2	1.96	0.46
2:AA:879:G:C2	2:AA:880:G:C8	3.03	0.46
2:AA:885:C:C3'	2:AA:885:C:C6	2.98	0.46
2:AA:928:G:C2'	2:AA:929:G:C4	2.97	0.46
2:AA:1080:C:O2'	11:AL:126:LYS:CB	2.64	0.46
2:AA:1138:G:OP1	12:AM:82:THR:CA	2.63	0.46
2:AA:1252:G:H1'	25:A1:33:ARG:HD3	1.97	0.46
2:AA:1343:G:H5'	2:AA:1598:C:OP2	2.15	0.46
2:AA:1365:A:N6	2:AA:1366:A:N6	2.63	0.46
2:AA:1378:A:C8	2:AA:1380:G:C5	3.03	0.46
2:AA:1447:G:H1'	2:AA:545(A):A:C1'	2.45	0.46
2:AA:545(A):A:C8	2:AA:545(A):A:C3'	2.99	0.46
2:AA:1578:U:C2'	2:AA:1579:A:O5'	2.63	0.46
2:AA:1670:C:H2'	2:AA:1671:U:C4'	2.46	0.46
2:AA:1673:U:H2'	2:AA:1674:G:O5'	2.13	0.46
2:AA:1708:C:H2'	2:AA:1709:U:H5'	1.97	0.46
2:AA:1717:G:N3	2:AA:1717:G:H2'	2.30	0.46
2:AA:1819:A:H2'	4:AD:177:SER:HA	1.96	0.46
2:AA:1910:G:C6	2:AA:1911:U:C4	3.03	0.46
2:AA:1920:C:H5''	34:BA:1517:G:C5	2.50	0.46
2:AA:2014:A:N7	2:AA:2015:A:C6	2.83	0.46
2:AA:2026:C:O2	2:AA:2027:G:O4'	2.33	0.46
2:AA:2047:U:O2'	2:AA:2048:G:P	2.73	0.46
2:AA:2078:C:H5''	2:AA:2434:A:H5'	1.93	0.46
2:AA:2126:A:C4'	2:AA:2126:A:OP2	2.63	0.46
2:AA:2313:C:H2'	2:AA:2314:C:C6	2.51	0.46
2:AA:2331:G:H2'	2:AA:2332:U:N1	2.31	0.46
2:AA:2400:G:O3'	30:A6:20:PHE:HZ	1.98	0.46
2:AA:2443:C:O2'	2:AA:2444:G:H5'	2.13	0.46
2:AA:2464:C:C2	2:AA:2486:G:N2	2.78	0.46
2:AA:2488:A:O2'	2:AA:2489:G:C5'	2.60	0.46
2:AA:2550:G:H2'	2:AA:2551:C:H6	1.79	0.46
2:AA:2553:G:C2	2:AA:2583:G:C1'	2.95	0.46
2:AA:2579:C:C4	2:AA:2580:U:C6	3.03	0.46
2:AA:2604:U:O2	2:AA:2605:U:C6	2.67	0.46
2:AA:2631:G:H21	2:AA:2810:A:H1'	1.80	0.46
2:AA:2638:G:C8	2:AA:2775:A:N1	2.83	0.46
2:AA:2664:G:H2'	2:AA:2665:A:OP2	2.15	0.46
2:AA:2679:A:C5'	5:AE:261:ARG:CZ	2.90	0.46
2:AA:2683:C:C4	2:AA:2684:U:C5	3.03	0.46
2:AA:2687:U:O2	2:AA:2688:U:O4'	2.34	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2736:G:H2'	2:AA:2737:G:O5'	2.15	0.46
2:AA:2754:U:H2'	2:AA:2756:U:OP2	2.14	0.46
3:AC:22:ILE:HD13	3:AC:189:ILE:HG22	1.97	0.46
4:AD:201:ASP:HB2	4:AD:202:LYS:H	1.55	0.46
5:AE:82:ALA:CB	5:AE:99:VAL:H	2.25	0.46
6:AF:115:LEU:O	6:AF:118:THR:N	2.48	0.46
6:AF:193:LEU:HD11	6:AF:231:ARG:HB2	1.96	0.46
6:AF:195:VAL:CG1	6:AF:235:PHE:CD2	2.89	0.46
6:AF:233:THR:OG1	6:AF:235:PHE:CE1	2.67	0.46
7:AG:61:PHE:HD1	7:AG:61:PHE:N	2.14	0.46
8:AH:7:PRO:CA	8:AH:50:THR:HG1	2.28	0.46
8:AH:37:HIS:CE1	8:AH:67:THR:HG1	2.30	0.46
8:AH:77:GLY:C	8:AH:79:SER:N	2.71	0.46
8:AH:96:SER:HA	8:AH:124:VAL:CG2	2.45	0.46
9:AI:38:ALA:HA	9:AI:41:ALA:HB3	1.96	0.46
9:AJ:78:ARG:HH22	11:AL:59:THR:CB	2.29	0.46
10:AK:25:TYR:C	10:AK:29:PHE:CZ	2.93	0.46
10:AK:99:ALA:O	10:AK:100:GLU:C	2.58	0.46
11:AL:46:THR:CG2	11:AL:54:LEU:HD12	2.29	0.46
11:AL:55:PRO:CD	11:AL:73:PRO:CA	2.93	0.46
12:AM:18:ILE:HG21	12:AM:21:ARG:HD3	1.96	0.46
12:AM:21:ARG:CA	12:AM:24:SER:OG	2.63	0.46
12:AM:52:GLN:HA	12:AM:55:GLU:OE2	2.16	0.46
12:AM:65:ASN:ND2	12:AM:69:TYR:CG	2.83	0.46
12:AM:82:THR:O	12:AM:85:GLY:N	2.47	0.46
13:AN:17:ARG:HE	13:AN:47:THR:CA	2.27	0.46
13:AN:101:PRO:CD	17:AR:26:GLY:HA2	2.44	0.46
14:AO:61:ALA:HB1	14:AO:107:LYS:CE	2.44	0.46
15:AP:35:ASN:OD1	21:AV:114:ASP:OD1	2.33	0.46
15:AP:86:ARG:CZ	15:AP:123:ILE:CD1	2.85	0.46
16:AQ:76:GLY:O	16:AQ:80:SER:C	2.59	0.46
16:AQ:118:ILE:CG2	16:AQ:119:GLN:N	2.78	0.46
18:AS:84:ARG:C	18:AS:95:ILE:HG23	2.40	0.46
18:AS:88:ARG:HB3	18:AS:91:GLY:H	1.81	0.46
19:AT:7:HIS:ND1	19:AT:8:PRO:O	2.48	0.46
20:AU:34:GLU:HB3	20:AU:35:TYR:CE2	2.51	0.46
20:AU:105:ASP:HB2	20:AU:108:ARG:CD	2.46	0.46
21:AV:46:GLN:O	21:AV:47:SER:O	2.32	0.46
21:AV:79:ILE:HG22	21:AV:80:HIS:CE1	2.50	0.46
21:AV:103:ARG:HH12	21:AV:137:ASP:C	2.22	0.46
22:AW:10:ASP:O	22:AW:12:THR:N	2.49	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AW:39:ALA:CB	22:AW:40:PRO:CD	2.78	0.46
23:AX:37:LEU:CD1	23:AX:43:ILE:HG23	2.45	0.46
25:A1:19:LYS:C	25:A1:21:ALA:N	2.71	0.46
25:A1:20:ARG:NH1	26:A2:75:LYS:HG2	2.30	0.46
25:A1:34:ASN:O	25:A1:38:THR:OG1	2.33	0.46
25:A1:47:TYR:CZ	26:A2:75:LYS:C	2.94	0.46
25:A1:54:LYS:O	25:A1:57:PHE:HB2	2.15	0.46
25:A1:89:ASP:CG	26:A2:51:ALA:HB3	2.41	0.46
26:A2:95:ILE:N	26:A2:95:ILE:CD1	2.70	0.46
27:A3:35:ASN:HD22	27:A3:40:GLN:NE2	2.13	0.46
28:A4:7:PRO:HG2	28:A4:56:VAL:CG1	2.44	0.46
29:A5:35:GLN:HA	29:A5:37:HIS:CD2	2.51	0.46
32:A8:40:GLU:C	32:A8:42:ARG:N	2.70	0.46
32:A8:52:LYS:HB2	32:A8:52:LYS:HE3	1.63	0.46
34:BA:17:U:H1'	34:BA:1079:G:H21	1.80	0.46
34:BA:20:U:N3	34:BA:21:G:C6	2.84	0.46
34:BA:22:G:C5'	34:BA:885:G:O4'	2.57	0.46
34:BA:28:G:C6	34:BA:29:G:N7	2.83	0.46
34:BA:47:C:H4'	34:BA:48:C:H5''	1.92	0.46
34:BA:113:G:C8	34:BA:114:U:C5	3.00	0.46
34:BA:149:A:C2	34:BA:150:C:C4	3.02	0.46
34:BA:152:A:C8	34:BA:153:C:C6	3.04	0.46
34:BA:225:C:O2'	34:BA:226:G:H5'	2.15	0.46
34:BA:248:C:H4'	34:BA:283:C:H1'	1.96	0.46
34:BA:259:G:N2	34:BA:260:G:N3	2.62	0.46
34:BA:264:U:O2	34:BA:264:U:C2'	2.63	0.46
34:BA:265:G:O2'	34:BA:266:G:C5'	2.61	0.46
34:BA:285:G:N3	34:BA:286:G:C8	2.84	0.46
34:BA:315:A:H2'	34:BA:315:A:N3	2.30	0.46
34:BA:449:C:N4	34:BA:450:G:N3	2.63	0.46
34:BA:579:G:C5'	34:BA:728:A:O2'	2.60	0.46
34:BA:687:A:C5	34:BA:701:C:C5	3.04	0.46
34:BA:695:A:H2'	34:BA:696:A:C8	2.49	0.46
34:BA:695:A:N6	34:BA:696:A:C6	2.84	0.46
34:BA:696:A:O2'	34:BA:697:U:H5'	2.14	0.46
34:BA:714:G:O2'	34:BA:715:A:H5'	2.16	0.46
34:BA:750:G:C2	34:BA:751:U:C6	3.03	0.46
34:BA:768:A:N6	34:BA:769:G:C6	2.84	0.46
34:BA:784:C:H2'	34:BA:785:G:H8	1.81	0.46
34:BA:894:G:C6	34:BA:895:G:C5	3.03	0.46
34:BA:922:G:H4'	40:BH:20:GLN:HA	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:990:C:O2'	34:BA:991:U:O4'	2.27	0.46
34:BA:1057:G:H2'	34:BA:1058:G:C8	2.44	0.46
34:BA:1064:G:N3	34:BA:1066:C:N3	2.64	0.46
34:BA:1269:A:H5'	34:BA:1326:C:C5'	2.44	0.46
34:BA:1441:G:H1'	34:BA:1461:G:H22	1.81	0.46
35:BB:10:G:O2'	35:BB:11:C:H5'	2.15	0.46
35:BB:15:G:C2	35:BB:60:C:O2	2.67	0.46
35:BB:48:C:C4	35:BB:59:U:C2	3.03	0.46
35:BB:59:U:H3	35:BB:60:C:N4	2.07	0.46
35:BC:33:U:H6	35:BC:33:U:C3'	2.27	0.46
36:B1:14:U:OP1	36:B1:38:C:N4	2.48	0.46
37:BE:35:GLU:C	37:BE:36:ARG:NE	2.73	0.46
37:BE:170:GLU:HG3	37:BE:173:ALA:HB3	1.96	0.46
38:BF:16:ARG:C	38:BF:17:ASP:OD1	2.58	0.46
38:BF:28:GLN:CA	38:BF:30:ARG:NH1	2.78	0.46
38:BF:87:LEU:HB2	38:BF:101:LEU:CD1	2.45	0.46
38:BF:157:ILE:O	38:BF:158:GLY:C	2.59	0.46
39:BG:50:ARG:HD3	39:BG:51:PRO:CD	2.44	0.46
39:BG:124:GLY:O	39:BG:126:ILE:N	2.40	0.46
39:BG:134:ASP:C	39:BG:136:PRO:HD3	2.39	0.46
39:BG:151:LYS:C	39:BG:154:ASN:HD22	2.23	0.46
40:BH:146:ALA:O	40:BH:147:ASP:C	2.57	0.46
41:BI:45:LEU:HD23	41:BI:59:TYR:HA	1.97	0.46
41:BI:47:ARG:HH11	41:BI:47:ARG:HG2	1.79	0.46
41:BI:52:ILE:HD13	41:BI:87:ARG:NH1	2.31	0.46
41:BI:83:ASP:O	41:BI:84:ASN:C	2.57	0.46
42:BJ:17:VAL:O	42:BJ:17:VAL:CG1	2.63	0.46
42:BJ:69:VAL:CG2	42:BJ:104:LEU:HD11	2.46	0.46
43:BK:133:LEU:HD23	43:BK:133:LEU:N	2.31	0.46
44:BL:16:ARG:HH11	44:BL:64:THR:HG21	1.80	0.46
44:BL:17:VAL:HA	44:BL:63:ILE:HG13	1.95	0.46
45:BM:30:SER:C	45:BM:81:THR:OG1	2.58	0.46
45:BM:65:LEU:HD13	49:BQ:36:PHE:CZ	2.50	0.46
46:BN:40:ILE:C	46:BN:41:THR:CG2	2.89	0.46
46:BN:44:SER:OG	46:BN:47:VAL:HG23	2.14	0.46
50:BR:39:LEU:CD1	50:BR:56:LEU:HD13	2.43	0.46
50:BR:41:GLU:HA	50:BR:44:LYS:NZ	2.30	0.46
51:BS:22:THR:HA	51:BS:33:ILE:HG13	1.97	0.46
52:BT:43:LEU:CD2	52:BT:43:LEU:C	2.88	0.46
53:BU:36:ASN:CG	53:BU:39:VAL:HB	2.40	0.46
55:BW:56:MET:HE1	55:BW:85:MET:HA	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:57:ARG:HG2	55:BW:57:ARG:NH1	2.30	0.46
1:AB:12:C:H41	27:A3:50:GLY:N	2.11	0.46
2:AA:7:G:OP1	12:AM:6:PHE:HE2	1.99	0.46
2:AA:18:C:C2	2:AA:19:C:C5	3.03	0.46
2:AA:66:C:N3	2:AA:89:G:C6	2.84	0.46
2:AA:222:A:C8	2:AA:271(B):G:N2	2.84	0.46
2:AA:243:U:O2	2:AA:243:U:C2'	2.61	0.46
2:AA:253:C:C2'	2:AA:254:G:C5'	2.87	0.46
2:AA:271(C):U:O4	2:AA:421:U:C1'	2.63	0.46
2:AA:354:G:N2	2:AA:355:G:N7	2.63	0.46
2:AA:384:U:C2'	2:AA:385:C:O5'	2.64	0.46
2:AA:412:A:C2	2:AA:413:C:C1'	2.89	0.46
2:AA:419:C:C2	2:AA:420:C:C6	3.04	0.46
2:AA:464:U:C2'	2:AA:465:G:H5'	2.45	0.46
2:AA:542:C:O2'	2:AA:543:C:C5'	2.63	0.46
2:AA:547:A:N3	2:AA:547:A:H2'	2.31	0.46
2:AA:566:U:OP2	26:A2:81:ARG:CZ	2.63	0.46
2:AA:630:G:N1	2:AA:634:C:C4	2.84	0.46
2:AA:780:G:N3	2:AA:785:G:O6	2.48	0.46
2:AA:890:A:H5'	2:AA:892:G:C5'	2.45	0.46
2:AA:919:G:C2	2:AA:920:G:C5	3.03	0.46
2:AA:996:A:H4'	26:A2:10:LYS:HD2	1.96	0.46
2:AA:1164:G:C2'	2:AA:1165:U:O5'	2.64	0.46
2:AA:1213:A:C6	2:AA:1214:A:N7	2.84	0.46
2:AA:1219:G:C2	2:AA:1229:G:O6	2.67	0.46
2:AA:1279:G:C5	2:AA:1280:G:N7	2.84	0.46
2:AA:1291:C:H4'	2:AA:1537:C:O2'	2.15	0.46
2:AA:1340:U:H4'	2:AA:1394:U:H1'	1.97	0.46
2:AA:1403:C:C2	2:AA:1404:C:C6	3.03	0.46
2:AA:1403:C:H2'	2:AA:1404:C:O5'	2.15	0.46
2:AA:1428:C:O2'	2:AA:1429:G:P	2.72	0.46
2:AA:1442:G:C2	2:AA:1443:G:C5	3.04	0.46
2:AA:1492:G:C2'	2:AA:1493:C:C6	2.99	0.46
2:AA:1540:G:C2'	2:AA:1541:U:O5'	2.63	0.46
2:AA:1649:G:N2	2:AA:1650:G:N7	2.63	0.46
2:AA:1707:G:C1'	2:AA:1756:G:H1'	2.43	0.46
2:AA:1717:G:N1	2:AA:1718:G:N3	2.64	0.46
2:AA:1916:A:P	2:AA:1916:A:C8	3.03	0.46
2:AA:1935:G:C2	2:AA:1962:C:N1	2.83	0.46
2:AA:1935:G:C2'	2:AA:1962:C:H42	2.28	0.46
2:AA:2058:A:C4	2:AA:2059:A:C8	3.04	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2115:G:H2'	2:AA:2116:G:OP1	2.15	0.46
2:AA:2128:C:C3'	2:AA:2129:C:H5'	2.45	0.46
2:AA:2150:U:H5''	2:AA:2151:G:OP1	2.16	0.46
2:AA:2244:U:O2'	2:AA:2434:A:N7	2.33	0.46
2:AA:2255:G:N3	2:AA:2255:G:H2'	2.30	0.46
2:AA:2289:G:OP1	2:AA:2385:C:OP1	2.33	0.46
2:AA:2310:A:N1	7:AG:55:LYS:HD3	2.31	0.46
2:AA:2316:C:C5'	7:AG:142:ALA:CB	2.82	0.46
2:AA:2338:G:C8	2:AA:2338:G:H3'	2.50	0.46
2:AA:2569:G:C4	2:AA:2570:G:C8	3.04	0.46
2:AA:2626:C:N3	2:AA:2627:G:N7	2.62	0.46
2:AA:2637:U:O2	2:AA:2782:G:C2	2.68	0.46
2:AA:2720:U:O4	2:AA:2872:G:C6	2.69	0.46
2:AA:2724:C:C2'	2:AA:2724:C:O2	2.62	0.46
2:AA:2786:U:H6	2:AA:2786:U:O5'	1.98	0.46
2:AA:2786:U:H2'	2:AA:2787:C:C6	2.50	0.46
2:AA:2831:G:H5''	2:AA:2834:G:O2'	2.15	0.46
3:AC:19:ILE:HG23	3:AC:224:ILE:HA	1.96	0.46
3:AC:22:ILE:HD11	3:AC:193:ILE:CD1	2.36	0.46
3:AC:148:ASN:HB2	3:AC:151:GLU:CD	2.41	0.46
4:AD:117:SER:OG	4:AD:127:ASN:HA	2.15	0.46
5:AE:193:PHE:CD2	5:AE:199:ALA:HB2	2.49	0.46
5:AE:309:PRO:HG2	5:AE:309:PRO:O	2.16	0.46
6:AF:114:ALA:O	6:AF:117:ALA:N	2.48	0.46
9:AI:7:ILE:O	9:AI:11:GLU:HG3	2.15	0.46
9:AI:24:LYS:O	9:AI:27:ASP:CB	2.62	0.46
9:AI:59:PHE:CE1	9:AI:108:LYS:HG2	2.50	0.46
9:AI:80:ILE:CG2	9:AI:81:THR:HG23	2.37	0.46
9:AJ:112:GLU:O	9:AJ:116:LYS:HG3	2.16	0.46
10:AK:66:LYS:HB3	10:AK:69:LYS:NZ	2.29	0.46
10:AK:134:HIS:CG	10:AK:135:PRO:HD2	2.51	0.46
11:AL:54:LEU:CD2	11:AL:73:PRO:HG3	2.46	0.46
12:AM:42:GLU:HA	12:AM:133:GLY:HA2	1.96	0.46
13:AN:10:VAL:CG2	13:AN:17:ARG:N	2.78	0.46
13:AN:17:ARG:O	13:AN:18:GLU:HG3	2.15	0.46
15:AP:47:GLU:C	15:AP:150:ASP:OD1	2.58	0.46
15:AP:97:ASP:OD2	15:AP:97:ASP:O	2.33	0.46
15:AP:102:ARG:O	15:AP:104:PRO:HD3	2.15	0.46
16:AQ:76:GLY:O	16:AQ:82:TYR:N	2.48	0.46
17:AR:7:ASP:OD1	17:AR:30:HIS:N	2.48	0.46
19:AT:33:SER:O	19:AT:37:VAL:CB	2.45	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:80:GLU:CD	20:AU:86:GLU:HG2	2.40	0.46
21:AV:3:LEU:CD2	21:AV:38:ALA:CB	2.93	0.46
21:AV:78:PRO:O	21:AV:79:ILE:HG12	2.15	0.46
21:AV:106:GLY:CA	21:AV:141:MET:O	2.63	0.46
26:A2:20:ILE:O	26:A2:21:ARG:NE	2.48	0.46
26:A2:73:LYS:HG2	26:A2:87:ARG:CG	2.46	0.46
27:A3:24:LYS:C	27:A3:26:PHE:CE1	2.93	0.46
28:A4:6:HIS:CB	28:A4:56:VAL:HG22	2.43	0.46
28:A4:17:GLN:HG2	28:A4:33:VAL:CG1	2.41	0.46
29:A5:13:LYS:CD	29:A5:14:SER:N	2.78	0.46
29:A5:42:SER:O	29:A5:42:SER:OG	2.34	0.46
30:A6:12:MET:SD	30:A6:54:LYS:HB3	2.56	0.46
32:A8:3:LYS:O	32:A8:4:MET:HE3	2.16	0.46
32:A8:19:THR:HB	32:A8:21:LYS:HZ1	1.78	0.46
33:A9:12:ASP:C	33:A9:13:ASN:OD1	2.58	0.46
34:BA:29:G:O2'	34:BA:30:U:H5'	2.15	0.46
34:BA:191:G:C4	55:BW:105:SER:HB2	2.51	0.46
34:BA:270:A:C6	34:BA:271:C:C4	3.03	0.46
34:BA:404:U:H2'	34:BA:405:U:H6	1.80	0.46
34:BA:530:G:N1	35:BB:34:G:H1'	2.29	0.46
34:BA:568:G:N2	34:BA:883:C:H1'	2.31	0.46
34:BA:841:U:O2'	34:BA:848:C:OP1	2.32	0.46
34:BA:900:A:N7	34:BA:901:A:N6	2.61	0.46
34:BA:969:A:O2'	34:BA:970:C:H5'	2.16	0.46
34:BA:978:A:C6	34:BA:1319:A:H2	2.32	0.46
34:BA:988:G:N1	34:BA:989:C:C2	2.83	0.46
34:BA:1057:G:C2'	34:BA:1058:G:O5'	2.64	0.46
34:BA:1067:A:H3'	34:BA:1093:A:H4'	1.97	0.46
34:BA:1101:A:O2'	34:BA:1102:A:O4'	2.30	0.46
34:BA:1118:C:H1'	34:BA:1179:A:C8	2.51	0.46
34:BA:1226:C:N3	48:BP:104:ARG:HG3	2.30	0.46
34:BA:1248:A:N1	34:BA:1249:C:N3	2.63	0.46
34:BA:1480:G:C6	34:BA:1481:U:O2	2.68	0.46
35:BB:22:G:C4	35:BB:23:A:C8	3.04	0.46
35:BB:37:G:C2'	35:BB:38:A:H5'	2.46	0.46
35:BC:3:G:C6	35:BC:70:C:N3	2.79	0.46
35:BC:75:C:H3'	35:BC:75:C:C6	2.51	0.46
36:B1:50:G:N1	36:B1:51:G:C6	2.83	0.46
37:BE:58:ILE:CG2	37:BE:221:LEU:HD12	2.43	0.46
37:BE:167:PRO:CG	37:BE:192:SER:CB	2.94	0.46
37:BE:193:ASP:OD2	37:BE:196:LEU:CG	2.63	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BF:59:ARG:HG3	38:BF:64:VAL:N	2.31	0.46
38:BF:85:ARG:C	38:BF:87:LEU:N	2.72	0.46
38:BF:182:ILE:CG2	38:BF:203:PHE:HA	2.26	0.46
39:BG:83:SER:N	39:BG:89:THR:CG2	2.76	0.46
39:BG:105:VAL:HG12	39:BG:111:ALA:HB3	1.98	0.46
40:BH:105:VAL:O	40:BH:109:ILE:HB	2.16	0.46
42:BJ:76:ARG:HD2	42:BJ:89:MET:CE	2.44	0.46
42:BJ:76:ARG:HB3	42:BJ:156:TRP:CH2	2.50	0.46
42:BJ:87:VAL:HG13	42:BJ:154:TYR:CB	2.42	0.46
43:BK:82:HIS:CB	43:BK:138:TRP:NE1	2.78	0.46
43:BK:85:ARG:NH1	43:BK:85:ARG:CG	2.76	0.46
44:BL:99:LEU:O	44:BL:101:PHE:CD1	2.68	0.46
46:BN:73:MET:O	46:BN:76:GLY:N	2.49	0.46
46:BN:82:VAL:HB	46:BN:108:ILE:HG12	1.98	0.46
46:BN:103:LEU:O	46:BN:104:GLN:C	2.57	0.46
48:BP:88:ARG:O	48:BP:89:GLY:C	2.59	0.46
50:BR:15:PHE:N	50:BR:15:PHE:CD1	2.83	0.46
50:BR:67:LEU:O	50:BR:68:ARG:C	2.58	0.46
51:BS:7:ALA:CB	51:BS:9:PHE:CE2	2.97	0.46
53:BU:26:LEU:HD22	53:BU:39:VAL:HG13	1.97	0.46
53:BU:56:THR:OG1	53:BU:63:GLN:NE2	2.49	0.46
53:BU:61:LYS:HD2	53:BU:64:ARG:NH2	2.31	0.46
53:BU:74:ARG:HH11	53:BU:74:ARG:CG	2.26	0.46
54:BV:36:ARG:CZ	54:BV:72:GLY:CA	2.93	0.46
54:BV:52:TYR:CE2	54:BV:54:GLY:C	2.93	0.46
55:BW:30:LYS:CB	55:BW:30:LYS:HZ3	2.22	0.46
1:AB:33:G:C2'	1:AB:34:U:H6	2.23	0.46
1:AB:57:A:N3	7:AG:17:ARG:NH1	2.64	0.46
1:AB:89:G:C4	1:AB:89(A):A:N6	2.84	0.46
2:AA:24:G:O6	2:AA:516:C:N3	2.49	0.46
2:AA:54:G:C2'	31:A7:35:ARG:HH22	2.28	0.46
2:AA:90:U:OP1	2:AA:90:U:H6	1.97	0.46
2:AA:106:C:O2'	2:AA:107:C:H5''	2.14	0.46
2:AA:241:A:O4'	2:AA:241:A:OP1	2.33	0.46
2:AA:242:G:C2'	2:AA:254:G:H1	2.26	0.46
2:AA:278:A:N1	2:AA:363:G:C2	2.83	0.46
2:AA:284:U:N3	2:AA:357:A:C6	2.83	0.46
2:AA:448:U:O2	2:AA:448:U:C2'	2.64	0.46
2:AA:464:U:N1	2:AA:788:A:N1	2.64	0.46
2:AA:482:A:N7	2:AA:506:G:C2	2.83	0.46
2:AA:535:C:C2'	2:AA:536:A:H5'	2.46	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:616:A:C2	2:AA:617:G:N2	2.83	0.46
2:AA:628:G:O5'	2:AA:628:G:C8	2.65	0.46
2:AA:674:G:N1	2:AA:807:U:C4	2.83	0.46
2:AA:684:G:N1	2:AA:775:G:N7	2.63	0.46
2:AA:814:C:N3	2:AA:815:C:C5	2.84	0.46
2:AA:820:A:H1'	2:AA:943:U:O2	2.15	0.46
2:AA:846:C:O2'	2:AA:847:U:O5'	2.34	0.46
2:AA:857:C:OP1	27:A3:56:ASP:OD2	2.33	0.46
2:AA:881:G:C5	2:AA:882:G:C8	3.04	0.46
2:AA:881:G:C2'	2:AA:882:G:H5'	2.46	0.46
2:AA:932:G:O2'	2:AA:933:A:C8	2.65	0.46
2:AA:959:A:N6	2:AA:960:A:H62	2.06	0.46
2:AA:961:C:O2'	2:AA:962:G:OP1	2.31	0.46
2:AA:1055:G:N9	9:AI:28:LYS:NZ	2.51	0.46
2:AA:1152:C:C2'	2:AA:1153:C:C5'	2.87	0.46
2:AA:1156:A:C2'	2:AA:1157:G:OP1	2.63	0.46
2:AA:1195:G:C2	2:AA:1196:C:C6	3.03	0.46
2:AA:1229:G:C5	2:AA:1230:C:C2	3.03	0.46
2:AA:1232:G:C6	2:AA:1233:C:C4	3.03	0.46
2:AA:1265:A:H8	2:AA:1267:U:N3	2.11	0.46
2:AA:1324:G:C4'	2:AA:1616:A:N6	2.77	0.46
2:AA:1394:U:C4'	2:AA:1603:A:H4'	2.43	0.46
2:AA:1397:U:C2'	2:AA:1398:C:OP1	2.63	0.46
2:AA:1429:G:C2'	2:AA:1430:C:C6	2.83	0.46
2:AA:1484:G:N1	2:AA:1506:C:N4	2.64	0.46
2:AA:1603:A:C2	2:AA:1604:C:H5	2.34	0.46
2:AA:1649:G:N2	2:AA:1650:G:C8	2.83	0.46
2:AA:1664:A:C2	2:AA:2726:U:N3	2.83	0.46
2:AA:1664:A:H8	2:AA:1664:A:P	2.37	0.46
2:AA:1687:G:C2	2:AA:1688:U:C4	3.03	0.46
2:AA:1941:C:N4	2:AA:1942:C:C4	2.83	0.46
2:AA:2004:G:C6	2:AA:2005:A:C5	3.04	0.46
2:AA:2008:C:N4	2:AA:2009:G:C6	2.83	0.46
2:AA:2010:G:C6	2:AA:2011:U:C6	3.03	0.46
2:AA:2021:C:OP1	29:A5:15:LYS:HE3	2.16	0.46
2:AA:2078:C:C2	2:AA:2079:U:C5	3.04	0.46
2:AA:2132:U:P	3:AC:5:LYS:HA	2.55	0.46
2:AA:2320:A:N7	16:AQ:9:PRO:HD3	2.31	0.46
2:AA:2450:A:C2'	2:AA:2451:A:C5'	2.84	0.46
2:AA:2468:G:N2	2:AA:2481:G:C4	2.83	0.46
2:AA:2494:G:C2	2:AA:2495:G:C5	3.04	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2542:A:H4'	2:AA:2543:G:OP1	2.14	0.46
2:AA:2578:G:HO2'	2:AA:2579:C:P	2.34	0.46
2:AA:2611:U:H5'	2:AA:2611:U:C6	2.43	0.46
2:AA:2660:A:N6	2:AA:2661:G:C2	2.83	0.46
2:AA:2717:G:O2'	2:AA:2718:G:O5'	2.24	0.46
2:AA:2745:C:O2'	8:AH:142:GLU:N	2.49	0.46
2:AA:2745:C:O2'	8:AH:142:GLU:OE2	2.29	0.46
2:AA:2756:U:O2'	2:AA:2757:A:O5'	2.33	0.46
2:AA:2811:G:N1	2:AA:2891:G:C2	2.83	0.46
2:AA:2842:G:O2'	2:AA:2843:G:H5'	2.15	0.46
3:AC:15:ASP:OD2	3:AC:18:LYS:HB3	2.15	0.46
3:AC:143:GLY:C	3:AC:152:ILE:HG23	2.41	0.46
3:AC:210:ARG:HH11	3:AC:210:ARG:CG	2.16	0.46
4:AD:76:ARG:CD	4:AD:113:MET:CB	2.76	0.46
4:AD:147:PRO:C	4:AD:149:ARG:HH12	2.23	0.46
5:AE:46:ALA:CB	5:AE:72:VAL:O	2.62	0.46
5:AE:207:GLY:N	5:AE:257:GLY:O	2.49	0.46
5:AE:269:ILE:HB	5:AE:270:ASP:OD2	2.14	0.46
6:AF:37:ALA:O	6:AF:40:ALA:HB3	2.15	0.46
6:AF:239:ALA:CA	6:AF:242:GLU:HG3	2.46	0.46
7:AG:61:PHE:CD1	7:AG:61:PHE:N	2.84	0.46
8:AH:93:TYR:C	8:AH:94:ARG:CG	2.88	0.46
8:AH:101:LYS:CE	8:AH:115:GLU:HB2	2.45	0.46
9:AI:15:VAL:CG2	9:AI:49:ALA:N	2.79	0.46
9:AJ:55:GLU:O	9:AJ:56:LYS:HB2	2.15	0.46
10:AK:59:ALA:O	10:AK:62:LEU:CB	2.63	0.46
12:AM:60:ARG:HD2	12:AM:71:TYR:CE2	2.51	0.46
13:AN:104:ARG:NH2	13:AN:121:VAL:O	2.49	0.46
14:AO:67:ARG:HH12	14:AO:111:ALA:HB3	1.73	0.46
14:AO:142:LEU:O	14:AO:143:THR:C	2.58	0.46
15:AP:133:GLU:OE1	15:AP:134:PHE:N	2.49	0.46
16:AQ:41:LYS:C	16:AQ:41:LYS:HD3	2.41	0.46
18:AS:29:LEU:HD23	18:AS:69:LEU:HB2	1.98	0.46
19:AT:1:SER:O	19:AT:2:TRP:HB3	2.14	0.46
21:AV:52:PHE:C	21:AV:65:LEU:HD21	2.41	0.46
21:AV:96:VAL:HG11	21:AV:131:PRO:O	2.15	0.46
21:AV:124:ALA:C	21:AV:159:THR:HB	2.40	0.46
21:AV:173:PRO:HB2	21:AV:176:LEU:HA	1.96	0.46
22:AW:13:PRO:HD3	22:AW:16:ARG:NH1	2.30	0.46
23:AX:31:LEU:O	23:AX:33:GLN:N	2.48	0.46
24:A0:105:ARG:CG	24:A0:105:ARG:HH11	2.29	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:52:ASN:O	25:A1:55:ARG:HG3	2.16	0.46
25:A1:89:ASP:CG	26:A2:52:GLY:CA	2.89	0.46
26:A2:31:ASP:O	26:A2:63:HIS:HB2	2.15	0.46
26:A2:60:VAL:HG12	26:A2:61:VAL:N	2.30	0.46
30:A6:21:TYR:CE1	30:A6:43:VAL:CG2	2.92	0.46
34:BA:50:A:H5''	34:BA:51:A:O3'	2.16	0.46
34:BA:65:U:H2'	34:BA:381:C:C5	2.50	0.46
34:BA:171:A:C2	34:BA:172:A:C4	3.04	0.46
34:BA:190(E):U:C2	52:BT:72:ARG:NH1	2.81	0.46
34:BA:291:C:H3'	34:BA:305:G:N2	2.31	0.46
34:BA:490:G:H2'	34:BA:491:G:H8	1.81	0.46
34:BA:494:G:O2'	34:BA:495:U:H5	1.97	0.46
34:BA:644:G:H2'	34:BA:645:C:C5'	2.46	0.46
34:BA:658:G:C6	34:BA:659:U:C4	3.03	0.46
34:BA:706:A:H2	34:BA:707:C:C2	2.33	0.46
34:BA:773:G:C2'	34:BA:774:G:O5'	2.63	0.46
34:BA:782:A:C6	34:BA:801:U:N1	2.84	0.46
34:BA:920:U:C4'	34:BA:1080:A:N6	2.79	0.46
34:BA:998:G:N2	34:BA:999:C:O4'	2.49	0.46
34:BA:1137:C:H5'	34:BA:1138:G:C6	2.51	0.46
34:BA:1148:U:N3	34:BA:1149:C:C2	2.83	0.46
34:BA:1240:U:C1'	42:BJ:42:ILE:HD11	2.46	0.46
34:BA:1375:A:H2'	34:BA:1376:U:C6	2.51	0.46
34:BA:1538:C:C2	36:B1:51:G:N2	2.74	0.46
35:BB:15:G:HO2'	35:BB:16:U:H5''	1.78	0.46
35:BB:70:C:C2'	35:BB:71:G:H8	2.10	0.46
35:BC:3:G:C2'	35:BC:4:G:O5'	2.63	0.46
35:BC:67:A:O2'	35:BC:68:U:H5'	2.16	0.46
35:BC:75:C:C6	35:BC:76:A:H4'	2.51	0.46
37:BE:20:GLU:CG	37:BE:189:ASP:HB3	2.45	0.46
37:BE:74:LYS:HG2	37:BE:76:GLN:H	1.80	0.46
37:BE:135:GLN:CB	37:BE:139:LYS:HE3	2.42	0.46
37:BE:144:ARG:HD2	37:BE:148:TYR:CZ	2.50	0.46
37:BE:179:LYS:O	37:BE:181:PHE:N	2.49	0.46
41:BI:78:GLU:O	41:BI:81:ILE:CG1	2.63	0.46
43:BK:14:ARG:HH11	43:BK:14:ARG:N	2.14	0.46
44:BL:91:ASP:OD1	44:BL:91:ASP:O	2.33	0.46
45:BM:79:ARG:HG2	45:BM:79:ARG:NH1	2.30	0.46
46:BN:18:ARG:NE	46:BN:34:ASP:O	2.48	0.46
46:BN:121:PRO:HB2	46:BN:125:PHE:HB2	1.97	0.46
47:BO:60:LEU:N	47:BO:60:LEU:CD1	2.55	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BO:102:ARG:C	47:BO:104:VAL:N	2.74	0.46
48:BP:44:ARG:O	48:BP:45:VAL:C	2.58	0.46
50:BR:46:HIS:C	50:BR:48:LYS:N	2.74	0.46
53:BU:46:GLU:CB	53:BU:85:LEU:HD11	2.44	0.46
54:BV:63:THR:N	54:BV:66:MET:SD	2.89	0.46
55:BW:42:GLN:CA	55:BW:42:GLN:NE2	2.79	0.46
55:BW:43:LEU:HD23	55:BW:43:LEU:HA	1.81	0.46
55:BW:90:GLN:O	55:BW:91:LEU:C	2.58	0.46
55:BW:90:GLN:O	55:BW:93:GLU:N	2.48	0.46
1:AB:17:C:OP1	7:AG:147:ALA:CB	2.64	0.46
1:AB:63:G:C2	1:AB:64:C:C2	3.03	0.46
1:AB:67:G:H2'	1:AB:68:C:C6	2.51	0.46
2:AA:23:G:H21	2:AA:24:G:H1'	1.77	0.46
2:AA:104:U:O2	20:AU:16:LEU:HD13	2.15	0.46
2:AA:276:A:C4'	2:AA:276:A:OP2	2.63	0.46
2:AA:298:G:P	2:AA:298:G:H8	2.39	0.46
2:AA:372:G:H8	2:AA:372:G:O5'	1.98	0.46
2:AA:464:U:C6	2:AA:464:U:P	3.09	0.46
2:AA:466:A:H8	2:AA:466:A:O5'	1.97	0.46
2:AA:466:A:H2'	2:AA:467:G:H5'	1.94	0.46
2:AA:550:G:C2'	2:AA:1220:A:H2	2.28	0.46
2:AA:558:G:C4	2:AA:559:G:N7	2.84	0.46
2:AA:610:C:C2'	2:AA:611:C:H6	2.27	0.46
2:AA:625:G:H3'	2:AA:626:U:H5'	1.96	0.46
2:AA:662:G:N1	2:AA:663:G:O6	2.48	0.46
2:AA:674:G:C2	2:AA:807:U:C4	3.04	0.46
2:AA:693:C:O2'	2:AA:694:U:C5'	2.62	0.46
2:AA:720:C:C4	2:AA:721:C:C5	3.03	0.46
2:AA:779:U:C2	2:AA:785:G:O6	2.69	0.46
2:AA:780:G:N7	2:AA:782:A:N6	2.64	0.46
2:AA:781:A:O2'	2:AA:1789:A:O4'	2.32	0.46
2:AA:792:G:N7	2:AA:2440:C:H1'	2.31	0.46
2:AA:813:U:O2'	2:AA:1225:C:O2	2.26	0.46
2:AA:858:U:C2'	2:AA:2268:A:H2'	2.37	0.46
2:AA:963:U:C2'	2:AA:2250:G:H21	2.28	0.46
2:AA:980:A:H3'	2:AA:981:A:H8	1.81	0.46
2:AA:995:C:OP1	2:AA:996:A:OP1	2.34	0.46
2:AA:1024:G:C8	2:AA:1024:G:C3'	2.99	0.46
2:AA:1124:C:C4	2:AA:1125:G:C5	3.04	0.46
2:AA:1339:G:H1'	2:AA:1393:A:C2	2.50	0.46
2:AA:1394:U:H5''	2:AA:1395:A:OP2	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1433:U:C2	2:AA:1560:G:O6	2.69	0.46
2:AA:449(A):G:C2	2:AA:1450:C:C6	3.03	0.46
2:AA:1501:C:C4'	4:AD:98:GLY:HA2	2.46	0.46
2:AA:1505:C:O2	2:AA:1505:C:C2'	2.63	0.46
2:AA:1598:C:O5'	2:AA:1598:C:H6	1.98	0.46
2:AA:1646:C:C3'	2:AA:1647:G:C5'	2.91	0.46
2:AA:1729:A:C2'	2:AA:1730:U:H5'	2.44	0.46
2:AA:1814:G:N2	2:AA:1815:A:N6	2.64	0.46
2:AA:1935:G:N3	2:AA:1962:C:C2	2.83	0.46
2:AA:1970:A:O2'	2:AA:1971:A:C5'	2.63	0.46
2:AA:2053:G:N1	2:AA:2054:A:C5	2.83	0.46
2:AA:2065:C:C2	2:AA:2066:C:C5	3.03	0.46
2:AA:2082:A:N6	2:AA:2239:G:C6	2.84	0.46
2:AA:2090:G:H1	2:AA:2227:A:H62	1.61	0.46
2:AA:2130:U:H5	2:AA:2131:G:H22	1.61	0.46
2:AA:2135:A:C8	2:AA:2152:G:C8	3.04	0.46
2:AA:2190:G:C5	2:AA:2191:G:N7	2.84	0.46
2:AA:2328:A:H2'	2:AA:2329:G:C8	2.50	0.46
2:AA:2476:A:C5	2:AA:2477:C:C5	3.02	0.46
2:AA:2478:A:C8	2:AA:2479:G:C8	3.02	0.46
2:AA:2602:A:OP2	35:BC:75:C:OP1	2.34	0.46
2:AA:2646:C:C2'	2:AA:2647:U:C5'	2.93	0.46
2:AA:2740:A:N1	2:AA:2764:A:C4	2.84	0.46
2:AA:2746:U:H3'	2:AA:2746:U:C6	2.51	0.46
2:AA:2791:C:O2'	2:AA:2792:G:H5'	2.15	0.46
2:AA:2853:C:H6	2:AA:2853:C:O5'	1.99	0.46
4:AD:63:ILE:HA	4:AD:86:ARG:NH2	2.13	0.46
4:AD:73:ILE:O	4:AD:116:MET:HE2	2.16	0.46
5:AE:223:LYS:O	5:AE:227:ALA:HB2	2.16	0.46
6:AF:23:GLU:O	6:AF:24:THR:C	2.58	0.46
6:AF:213:ALA:HB1	6:AF:218:VAL:CG1	2.46	0.46
6:AF:216:SER:O	6:AF:217:GLU:CB	2.63	0.46
7:AG:45:THR:CB	7:AG:83:PHE:CZ	2.99	0.46
8:AH:87:GLU:HB3	8:AH:164:GLU:OE2	2.15	0.46
9:AI:77:VAL:HG13	9:AI:102:ILE:CD1	2.45	0.46
9:AJ:72:GLN:O	9:AJ:75:LYS:HB2	2.15	0.46
11:AL:56:VAL:HG11	11:AL:58:ILE:HG12	1.98	0.46
11:AL:73:PRO:HG2	11:AL:78:LEU:CD2	2.46	0.46
12:AM:69:TYR:CD2	12:AM:71:TYR:HE1	2.34	0.46
14:AO:66:VAL:CB	14:AO:110:GLY:O	2.62	0.46
14:AO:76:LEU:CD2	14:AO:96:VAL:HG12	2.45	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:106:VAL:HG21	14:AO:122:ALA:HA	1.98	0.46
15:AP:129:ASP:OD1	15:AP:129:ASP:C	2.57	0.46
18:AS:24:ILE:HD12	18:AS:51:LEU:HD21	1.98	0.46
21:AV:130:ILE:HD12	21:AV:130:ILE:C	2.41	0.46
21:AV:145:ASP:O	21:AV:146:HIS:CD2	2.68	0.46
23:AX:33:GLN:OE1	23:AX:34:GLU:C	2.58	0.46
24:A0:21:TYR:CD2	24:A0:21:TYR:N	2.80	0.46
24:A0:29:LEU:HA	24:A0:29:LEU:HD13	1.68	0.46
29:A5:6:VAL:HG22	29:A5:7:PRO:HD2	1.98	0.46
31:A7:5:TYR:N	31:A7:6:GLN:HE22	2.12	0.46
33:A9:11:CYS:SG	33:A9:11:CYS:CA	2.96	0.46
34:BA:33:A:C5'	34:BA:34:C:OP2	2.62	0.46
34:BA:184:G:O4'	34:BA:224:C:H4'	2.15	0.46
34:BA:290:C:O5'	34:BA:290:C:C6	2.68	0.46
34:BA:392:G:C5'	51:BS:12:LYS:CE	2.90	0.46
34:BA:419:C:H2'	34:BA:420:U:C5'	2.45	0.46
34:BA:440:A:C2'	34:BA:442:C:H5'	2.46	0.46
34:BA:503:C:O2'	34:BA:504:C:H5'	2.16	0.46
34:BA:539:A:P	47:BO:114:LYS:NZ	2.89	0.46
34:BA:623:C:C2'	34:BA:624:C:H5'	2.46	0.46
34:BA:671:G:N3	34:BA:672:U:C6	2.83	0.46
34:BA:924:C:O2'	34:BA:925:G:C5'	2.64	0.46
34:BA:945:G:C2	34:BA:946:A:N7	2.84	0.46
34:BA:1029:C:N3	34:BA:1030:C:C5	2.83	0.46
34:BA:1057:G:H2'	34:BA:1058:G:O5'	2.15	0.46
34:BA:1097:C:H5'	34:BA:1169:A:H4'	1.97	0.46
34:BA:1114:C:H1'	49:BQ:60:SER:HB3	1.98	0.46
34:BA:1125:U:O3'	34:BA:1126:U:C6	2.69	0.46
34:BA:1284:C:C2'	34:BA:1285:A:H8	2.24	0.46
34:BA:1296:C:O4'	34:BA:1302:U:O4	2.34	0.46
34:BA:1399:C:C4'	34:BA:1400:C:O5'	2.46	0.46
34:BA:1435:G:H8	34:BA:1435:G:OP2	1.97	0.46
35:BB:29:A:N1	35:BB:41:U:O2	2.49	0.46
35:BC:48:C:H5'	35:BC:49:C:P	2.56	0.46
36:B1:17:G:N1	36:B1:37:C:O2	2.28	0.46
36:B1:27:G:H2'	36:B1:28:U:C5	2.51	0.46
36:B1:39:A:N3	36:B1:39:A:C2'	2.79	0.46
37:BE:20:GLU:C	37:BE:39:ILE:CD1	2.89	0.46
37:BE:78:GLN:HE22	37:BE:96:ARG:HH12	1.64	0.46
37:BE:236:TYR:O	37:BE:239:VAL:O	2.32	0.46
39:BG:30:LYS:N	39:BG:34:GLU:HB3	2.30	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:56:VAL:O	39:BG:57:ARG:C	2.57	0.46
39:BG:79:PHE:O	39:BG:80:GLU:C	2.56	0.46
39:BG:102:ASP:HB2	39:BG:121:VAL:HG21	1.91	0.46
40:BH:18:ARG:N	40:BH:26:PHE:HB3	2.30	0.46
40:BH:52:PRO:O	40:BH:55:VAL:HG23	2.16	0.46
40:BH:107:ARG:O	40:BH:111:GLU:HG3	2.15	0.46
40:BH:120:THR:O	40:BH:120:THR:HG22	2.15	0.46
42:BJ:12:LEU:HD23	42:BJ:24:THR:HG22	1.97	0.46
42:BJ:15:ASP:C	42:BJ:17:VAL:N	2.71	0.46
43:BK:13:ILE:O	43:BK:14:ARG:C	2.58	0.46
45:BM:68:HIS:N	45:BM:68:HIS:CD2	2.82	0.46
46:BN:23:ALA:HB2	46:BN:28:THR:CG2	2.45	0.46
46:BN:128:ALA:O	46:BN:129:SER:CB	2.63	0.46
47:BO:58:VAL:HG12	47:BO:60:LEU:HD13	1.96	0.46
50:BR:78:TYR:CD2	50:BR:82:ILE:HD11	2.50	0.46
51:BS:1:MET:HE2	51:BS:3:LYS:HE2	1.97	0.46
52:BT:18:THR:CG2	52:BT:43:LEU:HD21	2.15	0.46
53:BU:33:ASP:O	53:BU:35:ARG:N	2.48	0.46
53:BU:40:LEU:HA	53:BU:43:PHE:HD1	1.81	0.46
53:BU:69:THR:O	53:BU:71:LYS:N	2.48	0.46
54:BV:19:VAL:HG23	54:BV:47:HIS:NE2	2.30	0.46
54:BV:42:PRO:O	54:BV:45:VAL:HG23	2.14	0.46
1:AB:7:G:O2'	16:AQ:37:ARG:HG3	2.16	0.46
1:AB:11:C:C2	1:AB:109:G:N1	2.73	0.46
1:AB:53:A:C2	1:AB:54:G:O4'	2.69	0.46
2:AA:2:G:C2	2:AA:3:U:C2	3.04	0.46
2:AA:66:C:H5'	2:AA:456:C:HO2'	1.80	0.46
2:AA:83:G:O3'	20:AU:20:HIS:CE1	2.69	0.46
2:AA:121:G:N2	2:AA:131:G:C8	2.83	0.46
2:AA:124:G:N2	2:AA:128:C:N4	2.64	0.46
2:AA:137(A):G:H2'	2:AA:138:G:C6	2.51	0.46
2:AA:199:A:N1	2:AA:2434:A:C2	2.83	0.46
2:AA:224:G:C2	2:AA:225:A:C1'	2.99	0.46
2:AA:270:A:H2	2:AA:371:A:C8	2.34	0.46
2:AA:294:A:C2'	2:AA:295:G:H5'	2.45	0.46
2:AA:352:G:H8	2:AA:352:G:P	2.39	0.46
2:AA:412:A:C2'	2:AA:413:C:C5'	2.93	0.46
2:AA:459:U:C2'	2:AA:460:A:O5'	2.63	0.46
2:AA:564:C:OP2	26:A2:79:GLN:OE1	2.34	0.46
2:AA:722:A:C4	2:AA:723:G:C8	3.04	0.46
2:AA:812:C:N4	2:AA:1195:G:H1	2.13	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:814:C:O2'	2:AA:815:C:H5'	2.16	0.46
2:AA:995:C:O2'	25:A1:57:PHE:CG	2.67	0.46
2:AA:1029:A:H2	2:AA:2466:C:H5'	1.80	0.46
2:AA:1058:G:N3	9:AI:3:ILE:CG1	2.78	0.46
2:AA:1058:G:HO2'	2:AA:1059:G:H5'	1.73	0.46
2:AA:1069:A:O2'	2:AA:1070:A:H5''	2.15	0.46
2:AA:1084:A:OP1	9:AI:35:ALA:O	2.34	0.46
2:AA:1111:A:C8	2:AA:1111:A:P	3.08	0.46
2:AA:1203:G:O2'	2:AA:1241:A:C2	2.56	0.46
2:AA:1239:G:H1'	2:AA:1240:U:C6	2.50	0.46
2:AA:1280:G:C2	2:AA:1281:G:C8	3.03	0.46
2:AA:1283:G:N3	2:AA:1285:G:C8	2.84	0.46
2:AA:1478:G:O2'	2:AA:1479:G:H5'	2.16	0.46
2:AA:1492:G:C2	2:AA:1493:C:N3	2.83	0.46
2:AA:1499:C:H2'	2:AA:1500:G:O5'	2.15	0.46
2:AA:1648:C:N4	2:AA:1649:G:O6	2.49	0.46
2:AA:1652:A:N3	2:AA:1652:A:C2'	2.78	0.46
2:AA:1665:A:HO2'	2:AA:1666:G:C5'	2.25	0.46
2:AA:1677:A:O2'	2:AA:1678:G:O5'	2.33	0.46
2:AA:1693:U:O4	2:AA:1977:A:C6	2.69	0.46
2:AA:1858:G:C6	2:AA:1884:A:N3	2.84	0.46
2:AA:1859:A:C8	2:AA:1860:G:C8	3.03	0.46
2:AA:1913:A:C2	2:AA:1916:A:C5	3.03	0.46
2:AA:1930:G:C8	2:AA:1930:G:C3'	2.99	0.46
2:AA:1954:G:O2'	2:AA:1955:U:H5'	2.16	0.46
2:AA:2062:A:O2'	2:AA:2063:C:OP1	2.31	0.46
2:AA:2107:C:N4	2:AA:2182:G:C6	2.80	0.46
2:AA:2137:C:C4	2:AA:2155:G:O2'	2.69	0.46
2:AA:2210:G:C2	4:AD:69:ASP:OD2	2.68	0.46
2:AA:2395:C:H2'	2:AA:2396:G:H8	1.80	0.46
2:AA:2403:C:N3	2:AA:2404:C:C5	2.84	0.46
2:AA:2408:U:H2'	2:AA:2409:G:H8	1.80	0.46
2:AA:2588:G:N1	2:AA:2607:G:C6	2.84	0.46
2:AA:2604:U:H2'	2:AA:2604:U:O2	2.15	0.46
2:AA:2626:C:C6	2:AA:2626:C:C3'	2.98	0.46
2:AA:2697:G:C2'	2:AA:2698:U:O5'	2.63	0.46
2:AA:2734:A:N6	5:AE:316:ARG:HH12	2.14	0.46
2:AA:2854:G:C6	2:AA:2864:G:C6	3.04	0.46
2:AA:2875:C:H2'	2:AA:2876:G:O4'	2.15	0.46
3:AC:10:LEU:CG	3:AC:32:LEU:HB3	2.46	0.46
3:AC:28:LEU:HA	3:AC:31:GLU:CG	2.46	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:56:GLN:HA	3:AC:201:PRO:HB3	1.92	0.46
3:AC:78:ALA:HB2	3:AC:116:THR:CG2	2.46	0.46
4:AD:66:PHE:N	4:AD:67:LYS:HZ2	2.14	0.46
4:AD:183:ILE:HG22	4:AD:187:CYS:SG	2.56	0.46
5:AE:44:TYR:C	5:AE:74:GLU:OE1	2.59	0.46
5:AE:190:ASN:O	5:AE:193:PHE:O	2.33	0.46
5:AE:216:ARG:O	5:AE:217:TRP:CD1	2.69	0.46
5:AE:256:THR:CA	5:AE:259:HIS:CE1	2.84	0.46
6:AF:89:ALA:C	6:AF:90:HIS:CD2	2.93	0.46
6:AF:103:ASN:O	6:AF:104:ASP:C	2.57	0.46
6:AF:118:THR:O	6:AF:119:ALA:C	2.59	0.46
6:AF:213:ALA:HB2	6:AF:218:VAL:HG13	1.98	0.46
6:AF:238:SER:O	6:AF:241:ALA:CA	2.64	0.46
8:AH:20:GLY:C	8:AH:21:ASN:OD1	2.59	0.46
8:AH:84:LYS:HG3	8:AH:140:VAL:HG12	1.97	0.46
8:AH:130:ILE:HG22	8:AH:131:ILE:N	2.31	0.46
9:AI:18:LEU:HD22	9:AI:44:VAL:HB	1.96	0.46
9:AJ:92:VAL:O	9:AJ:95:ALA:HB3	2.15	0.46
9:AJ:106:VAL:HG12	9:AJ:111:ALA:N	2.31	0.46
10:AK:7:LYS:CD	10:AK:12:LYS:NZ	2.79	0.46
10:AK:21:VAL:O	10:AK:21:VAL:HG12	2.16	0.46
10:AK:57:GLN:HA	10:AK:60:GLU:OE1	2.15	0.46
11:AL:14:PRO:O	11:AL:17:LYS:HB2	2.16	0.46
12:AM:4:ALA:O	12:AM:6:PHE:CZ	2.68	0.46
12:AM:96:GLU:O	12:AM:99:GLU:N	2.49	0.46
12:AM:106:GLY:C	12:AM:107:ASN:CG	2.83	0.46
13:AN:22:ILE:HG13	13:AN:41:ALA:CB	2.45	0.46
13:AN:77:ILE:CD1	13:AN:78:ARG:N	2.60	0.46
14:AO:101:ASP:O	14:AO:101:ASP:OD2	2.34	0.46
16:AQ:33:ARG:CG	16:AQ:48:VAL:HB	2.45	0.46
16:AQ:104:ILE:HD13	16:AQ:109:PRO:CD	2.45	0.46
17:AR:46:ALA:O	17:AR:48:ASN:N	2.49	0.46
18:AS:79:GLY:O	18:AS:80:PRO:C	2.57	0.46
18:AS:89:ALA:HB3	18:AS:92:ARG:H	1.81	0.46
19:AT:25:GLN:C	19:AT:26:PHE:CD1	2.93	0.46
19:AT:34:LYS:CE	19:AT:52:VAL:O	2.58	0.46
20:AU:81:LYS:NZ	20:AU:81:LYS:CB	2.77	0.46
21:AV:19:ILE:CG2	21:AV:39:PHE:CE1	2.96	0.46
23:AX:30:ARG:HH21	23:AX:33:GLN:CB	2.28	0.46
23:AX:40:THR:OG1	23:AX:43:ILE:CD1	2.61	0.46
24:A0:90:ARG:NH2	24:A0:117:VAL:CG2	2.71	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:48:ARG:C	25:A1:52:ASN:ND2	2.74	0.46
26:A2:35:LEU:CB	26:A2:63:HIS:CE1	2.93	0.46
26:A2:61:VAL:HG12	26:A2:62:GLU:N	2.31	0.46
27:A3:4:LYS:NZ	27:A3:11:LYS:HZ1	2.11	0.46
31:A7:25:LYS:O	31:A7:26:SER:C	2.59	0.46
32:A8:10:ALA:O	32:A8:14:ILE:HG22	2.16	0.46
33:A9:19:ARG:O	33:A9:19:ARG:HG3	2.16	0.46
34:BA:33:A:H2'	47:BO:32:PHE:CE2	2.50	0.46
34:BA:110:C:H2'	34:BA:111:G:C8	2.51	0.46
34:BA:241:C:O2'	34:BA:242:C:H5'	2.15	0.46
34:BA:250:A:N3	34:BA:252:U:N3	2.64	0.46
34:BA:257:G:H2'	34:BA:258:G:O5'	2.15	0.46
34:BA:280:C:O4'	52:BT:38:ARG:CZ	2.64	0.46
34:BA:419:C:OP1	34:BA:513:C:H1'	2.15	0.46
34:BA:444:C:H2'	34:BA:445:G:H8	1.81	0.46
34:BA:568:G:N3	34:BA:569:C:C5	2.84	0.46
34:BA:624:C:O2	34:BA:625:G:C8	2.68	0.46
34:BA:717:C:N3	34:BA:734:G:C8	2.83	0.46
34:BA:826:C:N3	34:BA:827:U:C5	2.83	0.46
34:BA:858:G:C2	34:BA:869:G:H2'	2.44	0.46
34:BA:920:U:N3	34:BA:921:U:C5	2.84	0.46
34:BA:971:G:H5''	34:BA:972:C:H5''	1.97	0.46
34:BA:991:U:H2'	34:BA:993:G:C8	2.51	0.46
34:BA:1024:G:H2'	34:BA:1025:U:O5'	2.16	0.46
34:BA:1104:G:C2'	34:BA:1105:A:O5'	2.63	0.46
34:BA:1127:G:N2	34:BA:1147:C:N4	2.63	0.46
34:BA:1145:C:OP2	34:BA:1145:C:O4'	2.34	0.46
34:BA:1164:G:H1	34:BA:1172:C:H42	0.61	0.46
34:BA:1166:G:C2	34:BA:1171:G:C6	3.03	0.46
34:BA:1179:A:H2'	34:BA:1180:A:C8	2.51	0.46
34:BA:1224:G:O2'	34:BA:1225:A:P	2.74	0.46
34:BA:1273:G:H3'	34:BA:1274:G:H8	1.81	0.46
34:BA:1325:C:O2'	34:BA:1326:C:H5'	2.16	0.46
34:BA:1425:U:C2	34:BA:1476:G:N2	2.84	0.46
34:BA:1430:C:O2'	34:BA:1431:C:H5'	2.16	0.46
34:BA:1523:G:C5	34:BA:1524:C:C5	3.04	0.46
34:BA:1539:C:P	53:BU:54:ARG:NH1	2.88	0.46
35:BB:32:C:O5'	35:BB:32:C:H6	1.96	0.46
36:B1:67:U:OP1	36:B1:68:U:H5	1.99	0.46
37:BE:15:VAL:CG1	37:BE:209:ARG:HG3	2.46	0.46
37:BE:103:THR:O	37:BE:104:ASN:HB3	2.14	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:175:ARG:HA	37:BE:178:ARG:HB3	1.97	0.46
37:BE:218:ALA:O	37:BE:220:ASP:N	2.49	0.46
37:BE:221:LEU:HD13	37:BE:222:ILE:N	2.30	0.46
38:BF:67:THR:CG2	38:BF:69:HIS:CE1	2.98	0.46
38:BF:75:VAL:O	38:BF:75:VAL:CG1	2.64	0.46
38:BF:84:ILE:O	38:BF:101:LEU:CD1	2.57	0.46
38:BF:132:ARG:CG	38:BF:136:GLN:NE2	2.60	0.46
38:BF:135:LYS:NZ	40:BH:52:PRO:HD2	2.31	0.46
42:BJ:23:VAL:O	42:BJ:24:THR:C	2.59	0.46
44:BL:111:ARG:O	44:BL:113:LYS:CE	2.64	0.46
46:BN:59:TYR:O	46:BN:60:ALA:C	2.56	0.46
48:BP:40:ASN:HD22	48:BP:41:PRO:HD2	1.81	0.46
48:BP:96:LEU:O	48:BP:110:ARG:NE	2.49	0.46
49:BQ:39:LEU:CD1	49:BQ:47:LEU:HD12	2.43	0.46
52:BT:7:THR:HA	52:BT:57:VAL:O	2.16	0.46
52:BT:29:HIS:ND1	52:BT:30:PRO:HD2	2.30	0.46
54:BV:36:ARG:CZ	54:BV:72:GLY:HA2	2.45	0.46
54:BV:80:TYR:CG	54:BV:81:ARG:N	2.83	0.46
1:AB:12:C:C5	27:A3:53:MET:C	2.87	0.46
2:AA:16:G:C6	2:AA:525:U:C2	3.04	0.46
2:AA:25:U:C3'	2:AA:26:G:H8	2.28	0.46
2:AA:27:G:H3'	2:AA:27:G:H8	1.81	0.46
2:AA:83:G:O2'	2:AA:84:A:O5'	2.33	0.46
2:AA:197:A:O2'	2:AA:2244:U:OP1	2.33	0.46
2:AA:238:C:O2	2:AA:239:U:O4'	2.34	0.46
2:AA:246:C:C4	2:AA:247:G:C5	3.04	0.46
2:AA:268:C:N3	2:AA:424:G:O6	2.48	0.46
2:AA:270(Q):C:C5	2:AA:270(R):G:N7	2.84	0.46
2:AA:285:C:H2'	2:AA:286:C:N3	2.27	0.46
2:AA:299:A:C6	2:AA:322:A:C6	3.04	0.46
2:AA:421:U:O4'	2:AA:421:U:OP2	2.33	0.46
2:AA:518:G:C6	2:AA:519:U:O4	2.69	0.46
2:AA:532:A:OP2	2:AA:2021:C:N4	2.49	0.46
2:AA:580:C:N3	2:AA:581:C:N4	2.64	0.46
2:AA:676:A:H2'	2:AA:677:A:C5'	2.43	0.46
2:AA:685:A:N3	2:AA:774:A:N1	2.64	0.46
2:AA:692:C:N3	2:AA:693:C:C5	2.84	0.46
2:AA:705:A:N3	2:AA:705:A:C2'	2.79	0.46
2:AA:764:A:C6	2:AA:781:A:H2	2.33	0.46
2:AA:776:G:H1'	2:AA:793:A:C6	2.51	0.46
2:AA:783:A:H3'	2:AA:783:A:H8	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:818:G:N2	2:AA:1190:G:C6	2.84	0.46
2:AA:843:G:N2	2:AA:936:C:C2	2.84	0.46
2:AA:933:A:H2'	2:AA:934:G:O5'	2.16	0.46
2:AA:975:G:C6	2:AA:976:C:H5	2.34	0.46
2:AA:1002:G:N2	2:AA:1153:C:C2	2.75	0.46
2:AA:1003:G:N2	2:AA:1153:C:C6	2.83	0.46
2:AA:1080:C:HO2'	2:AA:1081:U:H5'	1.78	0.46
2:AA:1084:A:C5	9:AI:37:VAL:HG11	2.50	0.46
2:AA:1114:G:C2	2:AA:1115:G:N9	2.84	0.46
2:AA:1117:G:O2'	2:AA:1118:C:H5'	2.16	0.46
2:AA:142(A):A:OP1	2:AA:142(A):A:H3'	2.16	0.46
2:AA:1152:C:H4'	25:A1:80:ILE:HD12	1.97	0.46
2:AA:1249:U:O2'	2:AA:1250:G:O4'	2.31	0.46
2:AA:1299:G:O2'	2:AA:1301:A:H2	1.92	0.46
2:AA:1326:U:OP1	2:AA:1327:C:OP2	2.34	0.46
2:AA:1336:A:O2'	2:AA:1337:G:C5'	2.64	0.46
2:AA:1498:C:H2'	2:AA:1499:C:C6	2.50	0.46
2:AA:1508:A:C8	2:AA:1509:C:C5	3.04	0.46
2:AA:1568:G:H3'	4:AD:60:GLN:HG3	1.97	0.46
2:AA:1592:C:O2'	2:AA:1593:G:C5'	2.64	0.46
2:AA:1637:A:C6	2:AA:1638:C:N4	2.83	0.46
2:AA:1641:A:N6	2:AA:1642:G:C2	2.83	0.46
2:AA:1785:A:H8	2:AA:1785:A:C5'	2.26	0.46
2:AA:1787:A:H5'	2:AA:2590:A:H5'	1.97	0.46
2:AA:1812:A:H2'	2:AA:1813:G:H5'	1.98	0.46
2:AA:1912:A:H8	2:AA:1913:A:O4'	1.99	0.46
2:AA:1926:U:H3	2:AA:1929:G:N2	2.13	0.46
2:AA:1955:U:O2	2:AA:1955:U:C2'	2.63	0.46
2:AA:2003:G:C6	2:AA:2004:G:C5	3.04	0.46
2:AA:2091:U:H3'	2:AA:2092:U:H5'	1.98	0.46
2:AA:2132:U:H2'	2:AA:2132:U:O2	2.16	0.46
2:AA:2190:G:C2'	2:AA:2191:G:H5'	2.45	0.46
2:AA:2228:G:O6	2:AA:2229:C:O2	2.34	0.46
2:AA:2259:G:C5	2:AA:2427:C:N4	2.84	0.46
2:AA:2270:G:C6	2:AA:2271:G:N3	2.83	0.46
2:AA:2332:U:H5'	27:A3:70:ILE:CG2	2.44	0.46
2:AA:2360:A:C8	2:AA:2361:A:C8	3.02	0.46
2:AA:2378:A:H1'	16:AQ:26:LEU:HD22	1.97	0.46
2:AA:2396:G:O2'	28:A4:27:THR:N	2.49	0.46
2:AA:2410:G:N2	2:AA:2411:A:H1'	2.31	0.46
2:AA:2456:C:O2'	2:AA:2457:U:C5'	2.56	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2458:G:H2'	2:AA:2490:G:N1	2.31	0.46
2:AA:2496:C:C5'	2:AA:2497:A:OP2	2.58	0.46
2:AA:2539:C:C2'	2:AA:2540:C:O5'	2.64	0.46
2:AA:2617:C:C4	2:AA:2618:G:C8	3.04	0.46
2:AA:2886:G:C2	2:AA:2887:U:C2	3.04	0.46
2:AA:2899:G:C2'	2:AA:2900:A:H8	2.25	0.46
4:AD:89:ASN:ND2	4:AD:199:ARG:HE	2.08	0.46
4:AD:131:LEU:H	4:AD:131:LEU:HG	1.47	0.46
4:AD:142:ASN:N	4:AD:143:ILE:CD1	2.65	0.46
4:AD:148:GLY:O	4:AD:149:ARG:NH2	2.48	0.46
4:AD:201:ASP:OD1	4:AD:201:ASP:N	2.48	0.46
4:AD:213:LYS:HB2	4:AD:215:LYS:O	2.16	0.46
5:AE:81:VAL:HB	5:AE:100:TRP:CH2	2.50	0.46
5:AE:201:VAL:HG13	5:AE:310:PHE:C	2.32	0.46
6:AF:36:ARG:CA	6:AF:39:GLN:HE22	2.29	0.46
6:AF:56:THR:C	6:AF:79:ARG:HG3	2.41	0.46
6:AF:105:LYS:O	6:AF:109:LEU:CG	2.57	0.46
6:AF:210:ALA:O	6:AF:211:ASP:CB	2.63	0.46
7:AG:10:PHE:N	7:AG:10:PHE:CD1	2.84	0.46
8:AH:55:SER:C	8:AH:57:GLU:HG2	2.41	0.46
8:AH:88:LEU:HD11	8:AH:95:ALA:H	1.75	0.46
9:AI:1:MET:SD	9:AJ:86:LYS:HB2	2.55	0.46
9:AI:49:ALA:O	9:AI:50:GLY:C	2.58	0.46
9:AI:60:ASP:HB2	9:AI:128:LYS:CE	2.46	0.46
9:AJ:76:VAL:O	9:AJ:80:ILE:HB	2.15	0.46
10:AK:3:VAL:HG21	10:AK:21:VAL:CG2	2.43	0.46
10:AK:44:LEU:O	10:AK:47:LEU:CG	2.58	0.46
10:AK:78:THR:HA	10:AK:144:HIS:CE1	2.50	0.46
10:AK:141:LEU:HD13	10:AK:142:LYS:N	2.30	0.46
11:AL:45:GLU:O	11:AL:46:THR:C	2.58	0.46
11:AL:72:THR:CG2	11:AL:115:ASP:N	2.79	0.46
13:AN:66:LYS:HE3	13:AN:82:ASN:OD1	2.14	0.46
14:AO:119:THR:HG22	14:AO:138:GLY:CA	2.46	0.46
15:AP:12:PRO:CG	15:AP:91:HIS:HB2	2.39	0.46
15:AP:130:PRO:HB2	15:AP:134:PHE:CE1	2.49	0.46
15:AP:137:ARG:HD3	15:AP:138:ARG:CA	2.45	0.46
16:AQ:20:TYR:CD2	16:AQ:21:HIS:N	2.84	0.46
16:AQ:35:VAL:HG13	16:AQ:103:ASP:OD1	2.13	0.46
18:AS:65:LEU:HB2	18:AS:109:GLU:OE1	2.15	0.46
20:AU:78:THR:N	20:AU:89:ARG:CZ	2.79	0.46
20:AU:78:THR:O	20:AU:89:ARG:NH2	2.49	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:70:GLN:O	21:AV:72:ASP:N	2.49	0.46
21:AV:71:MET:C	21:AV:78:PRO:CA	2.89	0.46
21:AV:120:LEU:HD23	21:AV:120:LEU:N	2.25	0.46
21:AV:155:PRO:O	21:AV:156:GLU:C	2.59	0.46
23:AX:33:GLN:CG	23:AX:34:GLU:N	2.78	0.46
23:AX:58:VAL:C	23:AX:59:VAL:HG22	2.40	0.46
24:A0:77:ARG:O	24:A0:80:PHE:N	2.49	0.46
25:A1:111:ASP:C	25:A1:115:ASN:HD22	2.18	0.46
26:A2:76:SER:OG	26:A2:76:SER:O	2.34	0.46
27:A3:40:GLN:CA	27:A3:69:PHE:CE1	2.97	0.46
29:A5:7:PRO:O	29:A5:8:LYS:HD3	2.16	0.46
34:BA:27:G:H8	34:BA:27:G:P	2.38	0.46
34:BA:28:G:C5	34:BA:29:G:N7	2.84	0.46
34:BA:53:A:C6	34:BA:54:C:C5	3.04	0.46
34:BA:96:G:N1	34:BA:97:G:C5	2.83	0.46
34:BA:137:C:H2'	34:BA:138:G:O5'	2.16	0.46
34:BA:179:A:H61	34:BA:196:A:H62	1.63	0.46
34:BA:224:C:H2'	34:BA:225:C:H6	1.80	0.46
34:BA:254:G:C6	34:BA:273:A:C6	3.04	0.46
34:BA:259:G:O2'	34:BA:260:G:C5'	2.64	0.46
34:BA:260:G:C5	34:BA:261:U:N3	2.84	0.46
34:BA:300:A:H2'	34:BA:301:G:C4'	2.45	0.46
34:BA:356:A:O2'	34:BA:357:G:H5'	2.15	0.46
34:BA:424:G:C2	34:BA:425:G:C8	3.03	0.46
34:BA:451:A:H1'	34:BA:452:A:N9	2.30	0.46
34:BA:460:A:C5	34:BA:462:G:C5	3.03	0.46
34:BA:495:U:H2'	34:BA:496:A:C5'	2.46	0.46
34:BA:528:C:H5'	34:BA:535:A:H61	1.81	0.46
34:BA:582:U:O4	34:BA:583:A:N6	2.49	0.46
34:BA:582:U:N3	34:BA:583:A:N7	2.63	0.46
34:BA:586:C:OP1	52:BT:34:LYS:HD2	2.16	0.46
34:BA:594:G:N2	34:BA:596:C:N4	2.63	0.46
34:BA:612:C:O2'	34:BA:613:C:H5'	2.15	0.46
34:BA:620:C:O2	39:BG:135:LEU:HB2	2.15	0.46
34:BA:686:U:H2'	34:BA:687:A:O5'	2.16	0.46
34:BA:708:C:H5'	46:BN:37:GLY:CA	2.45	0.46
34:BA:841:U:C3'	34:BA:848:C:O4'	2.64	0.46
34:BA:976:G:N7	34:BA:361(A):C:C4	2.84	0.46
34:BA:978:A:H62	34:BA:1360:A:N6	2.13	0.46
34:BA:999:C:O2'	34:BA:1000:U:H5'	2.16	0.46
34:BA:1084:G:HO2'	34:BA:1085:U:P	2.38	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1151:A:N3	45:BM:39:PRO:HG3	2.31	0.46
34:BA:1157:A:H1'	34:BA:1181:G:H21	1.80	0.46
34:BA:1161:C:OP2	34:BA:1161:C:H6	1.99	0.46
34:BA:1226:C:H5''	48:BP:103:THR:CB	2.41	0.46
34:BA:1241:G:C4	34:BA:1242:C:C5	3.04	0.46
34:BA:1258:G:O2'	34:BA:1259:C:H5'	2.15	0.46
34:BA:1307:U:O5'	34:BA:1307:U:H6	1.98	0.46
34:BA:1357:A:P	34:BA:1357:A:H8	2.39	0.46
34:BA:1368:G:P	44:BL:112:LYS:O	2.74	0.46
34:BA:1440:C:C2	34:BA:1441:G:H1'	2.50	0.46
35:BB:5:A:N1	35:BB:69:U:O2	2.46	0.46
35:BB:28:C:N4	35:BB:43:G:C2	2.84	0.46
35:BB:53:G:C3'	35:BB:54:U:H5'	2.37	0.46
35:BC:72:C:O2'	35:BC:73:A:C1'	2.63	0.46
37:BE:9:GLU:CB	37:BE:217:ARG:HH22	2.29	0.46
37:BE:77:ALA:CB	37:BE:211:ILE:HG21	2.46	0.46
37:BE:88:ALA:CB	37:BE:219:VAL:HG22	2.21	0.46
38:BF:10:PHE:CE2	38:BF:11:ARG:NH2	2.83	0.46
38:BF:29:TYR:CE2	49:BQ:54:PRO:CG	2.83	0.46
38:BF:53:ALA:HB2	38:BF:115:LEU:CG	2.46	0.46
38:BF:190:ARG:CB	38:BF:190:ARG:HH11	2.29	0.46
39:BG:58:LEU:HD13	39:BG:59:ARG:HD2	1.97	0.46
39:BG:105:VAL:HG11	39:BG:117:ALA:CA	2.46	0.46
39:BG:149:ALA:O	39:BG:150:GLU:C	2.59	0.46
40:BH:33:VAL:HG21	40:BH:108:ALA:HB3	1.97	0.46
41:BI:45:LEU:HD23	41:BI:58:GLY:O	2.16	0.46
41:BI:62:TRP:HZ2	41:BI:64:GLN:HB2	1.80	0.46
42:BJ:27:ILE:HG21	42:BJ:40:ALA:CA	2.43	0.46
42:BJ:110:GLN:O	42:BJ:111:ARG:C	2.58	0.46
43:BK:29:SER:CA	43:BK:32:LYS:NZ	2.79	0.46
44:BL:11:LYS:NZ	44:BL:108:VAL:CG1	2.78	0.46
44:BL:117:HIS:C	44:BL:119:ALA:N	2.74	0.46
45:BM:20:ALA:HB2	45:BM:70:ARG:HB3	1.97	0.46
46:BN:23:ALA:CB	46:BN:28:THR:OG1	2.62	0.46
46:BN:25:TYR:HD1	46:BN:89:ALA:HB2	1.79	0.46
46:BN:32:ILE:CD1	46:BN:72:ALA:HB2	2.45	0.46
46:BN:81:ASP:OD1	46:BN:106:LYS:HB3	2.15	0.46
48:BP:6:GLY:O	48:BP:7:VAL:C	2.59	0.46
48:BP:15:VAL:CG2	48:BP:34:LEU:HD21	2.45	0.46
50:BR:5:LYS:O	50:BR:8:LYS:HB3	2.16	0.46
50:BR:87:ILE:N	50:BR:87:ILE:HD12	2.30	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BT:76:LEU:C	52:BT:76:LEU:HD23	2.41	0.46
1:AB:52:A:C4'	1:AB:52:A:OP1	2.64	0.46
1:AB:97:G:C6	1:AB:98:G:N7	2.84	0.46
2:AA:14:A:C8	2:AA:15:G:C8	3.04	0.46
2:AA:109:G:C2	2:AA:110:G:H1'	2.46	0.46
2:AA:126:A:N7	2:AA:127:A:C6	2.84	0.46
2:AA:140:A:O5'	19:AT:48:THR:HG22	2.15	0.46
2:AA:155:C:C2'	2:AA:161:U:O5'	2.64	0.46
2:AA:223:A:N1	2:AA:408:G:O4'	2.49	0.46
2:AA:270(Q):C:N1	2:AA:270(R):G:C8	2.84	0.46
2:AA:288:C:C6	2:AA:288:C:C4'	2.98	0.46
2:AA:303:U:N3	2:AA:315:G:N2	2.63	0.46
2:AA:319:C:N3	2:AA:323:G:N2	2.59	0.46
2:AA:332:A:N6	2:AA:335:C:C2	2.84	0.46
2:AA:372:G:H3'	2:AA:372:G:C8	2.51	0.46
2:AA:495:G:H4'	18:AS:57:ASN:OD1	2.16	0.46
2:AA:583:G:O2'	2:AA:584:C:C5'	2.61	0.46
2:AA:583:G:OP1	25:A1:10:ARG:NH1	2.49	0.46
2:AA:608:A:C2'	2:AA:609:A:C5'	2.89	0.46
2:AA:611:C:O2'	2:AA:616:A:C2	2.53	0.46
2:AA:637:A:OP2	14:AO:110:GLY:N	2.42	0.46
2:AA:701:G:C2	2:AA:702:G:N7	2.84	0.46
2:AA:769:G:N1	2:AA:770:G:C5	2.84	0.46
2:AA:806:C:N1	2:AA:807:U:C5	2.82	0.46
2:AA:821:A:C8	2:AA:946:G:C8	3.03	0.46
2:AA:825:C:H4'	2:AA:2428:G:C5	2.51	0.46
2:AA:895:U:O2'	2:AA:896:A:C8	2.63	0.46
2:AA:941:A:C2	2:AA:942:G:N9	2.84	0.46
2:AA:957:A:C2	2:AA:2459:A:C4'	2.99	0.46
2:AA:991:C:H5''	2:AA:1186:G:OP2	2.13	0.46
2:AA:1019:U:H3	2:AA:1143:A:N6	2.14	0.46
2:AA:1023:U:N3	2:AA:1024:G:H1'	2.31	0.46
2:AA:1036:G:P	8:AH:58:LYS:HD2	2.55	0.46
2:AA:1050:A:C6	2:AA:2751:G:C6	3.04	0.46
2:AA:1078:U:N3	2:AA:1088:A:O2'	2.45	0.46
2:AA:1087:G:N9	2:AA:1103:A:C2	2.84	0.46
2:AA:1096:A:N7	2:AA:1097:U:C6	2.84	0.46
2:AA:1097:U:C2'	2:AA:1098:A:O5'	2.64	0.46
2:AA:1134:G:H5'	2:AA:1135:C:OP2	2.16	0.46
2:AA:1194:A:C4	2:AA:1195:G:C8	3.04	0.46
2:AA:1238:G:C2	2:AA:1239:G:C1'	2.96	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1419:A:C3'	2:AA:1420:U:O4'	2.63	0.46
2:AA:1513:C:C6	2:AA:1513:C:C3'	2.99	0.46
2:AA:1528:A:N6	2:AA:1543:A:C5	2.83	0.46
2:AA:1603:A:H3'	2:AA:1603:A:P	2.53	0.46
2:AA:1634:A:O3'	2:AA:1635:G:C8	2.69	0.46
2:AA:1702:G:H4'	34:BA:1473:A:O2'	2.16	0.46
2:AA:1725:G:C2	2:AA:1726:G:N7	2.84	0.46
2:AA:1780:A:C3'	2:AA:1781:C:C5'	2.93	0.46
2:AA:1791:A:O2'	4:AD:204:PHE:CB	2.47	0.46
2:AA:1815:A:C4'	2:AA:1817:G:O4'	2.64	0.46
2:AA:1941:C:C6	2:AA:1965:C:C4	3.04	0.46
2:AA:2013:A:OP1	18:AS:96:ILE:CA	2.64	0.46
2:AA:2080:G:N1	2:AA:2241:A:C6	2.84	0.46
2:AA:2090:G:N1	2:AA:2227:A:N6	2.64	0.46
2:AA:2097:C:C2'	2:AA:2098:U:C5'	2.86	0.46
2:AA:2180:U:C2	2:AA:2181:G:C8	3.03	0.46
2:AA:2262:U:O4'	2:AA:2328:A:N3	2.48	0.46
2:AA:2302:G:O2'	2:AA:2303:G:C5'	2.64	0.46
2:AA:2313:C:P	7:AG:51:ARG:HB3	2.56	0.46
2:AA:2325:G:O2'	2:AA:2326:C:C5'	2.54	0.46
2:AA:2352:A:C2	27:A3:30:VAL:HG12	2.50	0.46
2:AA:2471:C:N4	2:AA:2479:G:N1	2.29	0.46
2:AA:2507:C:C4	2:AA:2583:G:C2	3.04	0.46
2:AA:2568:C:C2'	2:AA:2569:G:H5'	2.46	0.46
2:AA:2597:G:C6	2:AA:2598:A:C6	3.03	0.46
2:AA:2647:U:H1'	2:AA:2674:G:H22	1.79	0.46
2:AA:2720:U:C2	2:AA:2721:A:C8	3.04	0.46
2:AA:2732:G:H3'	2:AA:2733:A:C5'	2.46	0.46
2:AA:2783:G:C4	2:AA:2784:C:C5	3.03	0.46
2:AA:2804:C:C6	2:AA:2805:G:C2	3.04	0.46
2:AA:2832:U:C6	2:AA:2832:U:C4'	2.98	0.46
3:AC:75:LEU:HB2	3:AC:110:PHE:CD2	2.51	0.46
3:AC:148:ASN:CG	3:AC:148:ASN:O	2.57	0.46
4:AD:84:PRO:O	4:AD:84:PRO:HG2	2.15	0.46
4:AD:131:LEU:HD12	4:AD:171:VAL:CG2	2.46	0.46
4:AD:131:LEU:HD13	4:AD:171:VAL:CG2	2.45	0.46
4:AD:156:ALA:O	4:AD:194:VAL:HB	2.16	0.46
5:AE:46:ALA:O	5:AE:305:LYS:HB3	2.16	0.46
5:AE:77:PRO:HB2	5:AE:186:GLU:HB2	1.97	0.46
5:AE:210:THR:HG22	5:AE:255:GLN:CG	2.46	0.46
5:AE:213:PRO:HG3	5:AE:235:ILE:N	2.30	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:217:GLU:C	6:AF:218:VAL:CG2	2.88	0.46
6:AF:235:PHE:HB3	6:AF:239:ALA:CB	2.46	0.46
6:AF:245:GLU:CD	6:AF:245:GLU:N	2.71	0.46
7:AG:59:GLY:C	7:AG:60:GLU:HG3	2.41	0.46
8:AH:112:VAL:H	8:AH:151:ARG:HH12	1.64	0.46
8:AH:143:LEU:O	8:AH:146:ASN:HB2	2.16	0.46
9:AI:66:PHE:CD2	9:AI:73:VAL:HB	2.50	0.46
10:AK:4:ILE:HD11	10:AK:39:ALA:N	2.30	0.46
10:AK:79:ILE:CD1	10:AK:79:ILE:N	2.61	0.46
10:AK:104:ALA:CB	10:AK:105:GLN:OE1	2.60	0.46
11:AL:52:MET:SD	11:AL:81:LYS:CB	3.04	0.46
11:AL:72:THR:HG21	11:AL:115:ASP:N	2.30	0.46
11:AL:105:ILE:HG23	11:AL:128:ILE:CD1	2.46	0.46
11:AL:107:GLU:HA	11:AL:110:LYS:CE	2.46	0.46
11:AL:120:SER:O	11:AL:121:LEU:C	2.59	0.46
11:AL:133:LYS:O	11:AL:134:SER:C	2.58	0.46
13:AN:21:VAL:HA	13:AN:41:ALA:HB2	1.97	0.46
14:AO:113:GLN:O	14:AO:115:ARG:CD	2.64	0.46
15:AP:42:TYR:HB2	21:AV:99:HIS:NE2	2.31	0.46
15:AP:133:GLU:OE1	15:AP:134:PHE:CA	2.63	0.46
16:AQ:66:LEU:HB3	16:AQ:69:TYR:OH	2.15	0.46
16:AQ:120:GLU:CD	16:AQ:120:GLU:H	2.24	0.46
20:AU:69:LYS:O	20:AU:70:ALA:HB3	2.15	0.46
20:AU:81:LYS:HB3	20:AU:81:LYS:HZ1	1.78	0.46
21:AV:21:ALA:HB3	21:AV:34:LEU:CD1	2.34	0.46
22:AW:28:LEU:HA	22:AW:31:ARG:HE	1.80	0.46
22:AW:43:PRO:HB2	22:AW:46:ILE:HD13	1.97	0.46
22:AW:49:LEU:O	22:AW:53:ILE:HG13	2.15	0.46
24:A0:49:ASP:OD1	24:A0:94:TYR:HB2	2.15	0.46
25:A1:93:LYS:O	25:A1:94:VAL:CG2	2.60	0.46
26:A2:20:ILE:HG21	26:A2:67:LYS:HD3	1.96	0.46
27:A3:61:ALA:HB3	27:A3:80:SER:HA	1.98	0.46
32:A8:55:TRP:HZ3	32:A8:59:LYS:HE3	1.80	0.46
34:BA:7:G:N2	40:BH:121:LYS:HG2	2.31	0.46
34:BA:9:G:OP2	40:BH:121:LYS:HA	2.16	0.46
34:BA:20:U:O2'	34:BA:21:G:H5'	2.16	0.46
34:BA:23:C:O2	34:BA:23:C:C2'	2.62	0.46
34:BA:62:U:O2'	34:BA:379:C:O2	2.32	0.46
34:BA:246:A:N6	34:BA:279:A:C4	2.84	0.46
34:BA:249:U:N3	34:BA:276:G:C6	2.84	0.46
34:BA:321:A:C8	34:BA:328:C:C4	3.04	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:343:U:C2'	34:BA:344:A:O5'	2.63	0.46
34:BA:389:A:C2'	34:BA:390:C:O5'	2.59	0.46
34:BA:390:C:C2	34:BA:391:G:C8	3.04	0.46
34:BA:499:A:N9	34:BA:547:A:N6	2.64	0.46
34:BA:510:A:O2'	34:BA:542:G:C2'	2.64	0.46
34:BA:608:A:H2'	34:BA:609:A:O5'	2.16	0.46
34:BA:729:A:O2'	34:BA:730:G:O5'	2.33	0.46
34:BA:738:C:C2	34:BA:739:C:C6	3.04	0.46
34:BA:743:U:H2'	34:BA:744:C:H6	1.80	0.46
34:BA:791:G:N2	34:BA:1497:G:H5''	2.31	0.46
34:BA:834:C:H2'	34:BA:835:U:O4'	2.16	0.46
34:BA:892:A:H2'	34:BA:893:C:C6	2.50	0.46
34:BA:932:C:O2	34:BA:932:C:C2'	2.55	0.46
34:BA:953:G:C6	34:BA:1229:A:N6	2.84	0.46
34:BA:1015:A:C5	34:BA:1016:A:C5	3.04	0.46
34:BA:1128:C:H1'	34:BA:1146:A:C6	2.50	0.46
34:BA:1258:G:O2'	34:BA:1259:C:O4'	2.33	0.46
34:BA:1289:A:O2'	34:BA:1290:G:H5'	2.15	0.46
34:BA:1306:A:C4	34:BA:1332:A:C8	3.04	0.46
34:BA:1311:G:H8	34:BA:1311:G:O5'	1.99	0.46
34:BA:1375:A:H2'	34:BA:1376:U:H6	1.81	0.46
34:BA:1407:C:H2'	34:BA:1408:A:H5'	1.95	0.46
34:BA:1512:U:O2'	34:BA:1513:A:H5'	2.16	0.46
35:BB:34:G:N1	36:B1:66:G:OP2	2.49	0.46
35:BC:7:U:C4	35:BC:67:A:N1	2.84	0.46
35:BC:9:A:C5'	35:BC:10:G:OP2	2.64	0.46
35:BC:14:A:C2	35:BC:22:G:C4	3.04	0.46
36:B1:27:G:C6	36:B1:28:U:O4	2.69	0.46
37:BE:75:LYS:CG	37:BE:78:GLN:NE2	2.74	0.46
37:BE:82:ARG:CZ	37:BE:92:TYR:OH	2.64	0.46
37:BE:193:ASP:O	37:BE:196:LEU:HG	2.16	0.46
38:BF:29:TYR:CZ	49:BQ:54:PRO:HG2	2.44	0.46
38:BF:50:ALA:C	38:BF:70:VAL:HG11	2.41	0.46
38:BF:110:ASN:HB3	38:BF:144:SER:OG	2.15	0.46
39:BG:155:LEU:CB	39:BG:158:ILE:HG12	2.36	0.46
41:BI:23:LYS:HA	41:BI:26:ILE:CG1	2.43	0.46
41:BI:52:ILE:HD13	41:BI:87:ARG:HH12	1.81	0.46
42:BJ:31:MET:CG	42:BJ:32:ARG:N	2.77	0.46
42:BJ:122:HIS:CD2	42:BJ:122:HIS:N	2.80	0.46
45:BM:54:PHE:CE2	45:BM:55:LYS:HE3	2.50	0.46
46:BN:53:SER:OG	46:BN:54:ARG:HD3	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:10:ALA:C	49:BQ:12:ARG:N	2.68	0.46
51:BS:19:ILE:HB	51:BS:37:GLY:CA	2.46	0.46
51:BS:43:LYS:HG3	51:BS:48:TRP:HE3	1.78	0.46
51:BS:67:THR:HG22	51:BS:68:ASP:N	2.31	0.46
53:BU:64:ARG:HG3	53:BU:64:ARG:HH11	1.81	0.46
55:BW:26:ASN:CB	55:BW:71:THR:HG23	2.46	0.46
1:AB:62:C:N3	1:AB:63:G:N7	2.64	0.46
1:AB:75:G:C6	1:AB:76:G:C2	3.04	0.46
1:AB:75:G:O3'	21:AV:32:PHE:CE2	2.69	0.46
2:AA:2:G:C2	2:AA:2902:C:N3	2.84	0.46
2:AA:18:C:C2	2:AA:19:C:C6	3.04	0.46
2:AA:65:C:C4	2:AA:66:C:H5	2.33	0.46
2:AA:111:A:C4'	22:AW:62:GLU:OE2	2.63	0.46
2:AA:139:G:C8	2:AA:142:G:H1'	2.51	0.46
2:AA:143:C:OP2	2:AA:143:C:N1	2.49	0.46
2:AA:161:U:O2'	2:AA:163:U:O4	2.32	0.46
2:AA:264:C:O2'	2:AA:265:A:H3'	2.16	0.46
2:AA:289:A:C2'	2:AA:351:G:N7	2.79	0.46
2:AA:298:G:O6	20:AU:24:ARG:NH1	2.49	0.46
2:AA:319:C:N4	2:AA:320:A:N6	2.63	0.46
2:AA:452:G:C3'	2:AA:453:C:C5'	2.88	0.46
2:AA:566:U:C6	2:AA:567:A:C8	3.03	0.46
2:AA:603:A:C2	2:AA:625:G:C4	3.04	0.46
2:AA:606:U:H5'	6:AF:103:ASN:ND2	2.31	0.46
2:AA:628:G:C8	2:AA:628:G:OP2	2.69	0.46
2:AA:639:U:N3	2:AA:649:G:N1	2.63	0.46
2:AA:640:C:C5	2:AA:641:C:C5	3.04	0.46
2:AA:771:G:N2	2:AA:772:C:C2	2.84	0.46
2:AA:818:G:C6	2:AA:1187:G:N3	2.84	0.46
2:AA:830:G:N7	2:AA:2448:A:H8	2.12	0.46
2:AA:945:A:O2'	2:AA:946:G:OP1	2.27	0.46
2:AA:954:G:C2'	2:AA:955:C:H5'	2.45	0.46
2:AA:983:A:N9	2:AA:984:A:H1'	2.22	0.46
2:AA:983:A:C3'	2:AA:984:A:O4'	2.53	0.46
2:AA:1077:A:H3'	2:AA:1078:U:C6	2.51	0.46
2:AA:1110:G:H5''	2:AA:1111:A:OP1	2.15	0.46
2:AA:1138:G:N2	2:AA:1139:G:N9	2.63	0.46
2:AA:1155:A:C3'	2:AA:1156:A:H5''	2.43	0.46
2:AA:1163:G:O2'	2:AA:1164:G:H5'	2.16	0.46
2:AA:1213:A:C5	2:AA:1237:A:C4	3.04	0.46
2:AA:1241:A:H5''	2:AA:1242:A:OP2	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1265:A:C8	2:AA:1267:U:N3	2.77	0.46
2:AA:1271:G:O5'	2:AA:1272:A:OP1	2.33	0.46
2:AA:1289:C:C2'	2:AA:1290:C:O5'	2.63	0.46
2:AA:1303:G:O6	2:AA:1624:G:O6	2.33	0.46
2:AA:1401:G:C6	2:AA:1402:C:C4	3.04	0.46
2:AA:1410:G:C6	2:AA:1593:G:C6	3.04	0.46
2:AA:1536:A:H8	2:AA:1538:G:O4'	1.92	0.46
2:AA:1569:A:C6	2:AA:1570:A:N6	2.84	0.46
2:AA:1581:G:N1	2:AA:1582:C:N4	2.63	0.46
2:AA:1726:G:O6	2:AA:1727:U:N3	2.49	0.46
2:AA:1797:C:O2'	2:AA:1798:U:H5'	2.15	0.46
2:AA:1819:A:OP1	4:AD:157:ALA:CB	2.63	0.46
2:AA:1848:A:C5	34:BA:702:A:N1	2.84	0.46
2:AA:1938:A:C2'	2:AA:1939:U:O5'	2.64	0.46
2:AA:1941:C:C5	2:AA:1965:C:N1	2.84	0.46
2:AA:2020:A:H62	2:AA:2022:U:H3	1.64	0.46
2:AA:2063:C:C2	2:AA:2451:A:C2	3.04	0.46
2:AA:2075:U:C5	2:AA:2597:G:N2	2.84	0.46
2:AA:2094:G:C6	2:AA:2196:C:C4	3.04	0.46
2:AA:2115:G:O3'	2:AA:2117:A:OP2	2.32	0.46
2:AA:2115:G:N3	2:AA:2116:G:OP1	2.49	0.46
2:AA:2180:U:N1	2:AA:2181:G:C8	2.84	0.46
2:AA:2276:G:P	15:AP:104:PRO:HD2	2.55	0.46
2:AA:2291:U:OP1	2:AA:2381:C:C5'	2.64	0.46
2:AA:2316:C:O2'	7:AG:151:ILE:CD1	2.64	0.46
2:AA:2355:C:C5	2:AA:2356:C:C4	3.03	0.46
2:AA:2385:C:O2	2:AA:2386:C:C6	2.69	0.46
2:AA:2457:U:C3'	2:AA:2458:G:H5'	2.33	0.46
2:AA:2512:C:OP1	5:AE:219:VAL:HG13	2.16	0.46
2:AA:2617:C:C4	2:AA:2618:G:N7	2.84	0.46
2:AA:2785:C:H4'	5:AE:99:VAL:HG22	1.97	0.46
2:AA:2877:G:C6	2:AA:2878:U:O4	2.69	0.46
3:AC:27:HIS:C	3:AC:31:GLU:OE2	2.59	0.46
3:AC:56:GLN:HG3	3:AC:201:PRO:HG2	1.97	0.46
3:AC:68:LEU:HD11	3:AC:160:ARG:O	2.15	0.46
3:AC:91:ALA:O	3:AC:92:ASP:OD1	2.34	0.46
4:AD:65:ASP:HA	4:AD:67:LYS:NZ	2.31	0.46
4:AD:78:ALA:HA	4:AD:113:MET:CG	2.45	0.46
5:AE:205:THR:HG22	5:AE:261:ARG:HD2	1.98	0.46
5:AE:269:ILE:HG23	5:AE:297:LYS:NZ	2.28	0.46
6:AF:83:ALA:HB3	6:AF:87:ARG:NH2	1.99	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:134:LEU:C	7:AG:135:VAL:HG23	2.40	0.46
8:AH:93:TYR:CD2	8:AH:106:VAL:HG22	2.51	0.46
8:AH:161:ILE:O	8:AH:162:ARG:CG	2.63	0.46
9:AI:3:ILE:HG22	9:AI:4:ASP:N	2.30	0.46
9:AJ:25:LEU:HA	9:AJ:28:LYS:CG	2.46	0.46
10:AK:23:ASP:C	10:AK:25:TYR:N	2.73	0.46
10:AK:62:LEU:HB3	10:AK:66:LYS:HZ3	1.81	0.46
11:AL:28:LEU:CD1	11:AL:58:ILE:HD12	2.33	0.46
11:AL:35:ILE:H	11:AL:35:ILE:HG13	1.56	0.46
11:AL:104:GLN:HA	11:AL:107:GLU:HG2	1.97	0.46
12:AM:11:ILE:O	12:AM:11:ILE:HG22	2.16	0.46
12:AM:21:ARG:HA	12:AM:24:SER:CB	2.46	0.46
12:AM:50:GLU:O	12:AM:53:ILE:CG2	2.41	0.46
13:AN:22:ILE:CB	13:AN:40:VAL:O	2.53	0.46
14:AO:92:ASP:OD1	14:AO:93:VAL:C	2.59	0.46
15:AP:28:ILE:CD1	15:AP:89:PRO:CD	2.94	0.46
16:AQ:26:LEU:HD23	16:AQ:26:LEU:HA	1.52	0.46
17:AR:51:TRP:HA	17:AR:51:TRP:CE3	2.50	0.46
18:AS:32:ALA:HA	18:AS:35:ILE:HD12	1.98	0.46
20:AU:15:PRO:O	20:AU:16:LEU:C	2.57	0.46
21:AV:40:ASP:C	21:AV:44:ARG:CG	2.85	0.46
21:AV:112:LEU:CD2	21:AV:142:ASN:HA	2.46	0.46
23:AX:23:LEU:O	23:AX:24:LYS:C	2.58	0.46
23:AX:53:LEU:HD22	23:AX:54:VAL:HG13	1.98	0.46
26:A2:4:ILE:HA	26:A2:12:TYR:HD2	1.74	0.46
27:A3:19:LYS:O	27:A3:35:ASN:O	2.33	0.46
27:A3:74:LYS:C	27:A3:75:GLY:O	2.59	0.46
29:A5:11:THR:H	29:A5:16:ARG:NH2	2.07	0.46
29:A5:21:SER:C	29:A5:23:HIS:N	2.73	0.46
29:A5:40:LYS:HZ3	29:A5:46:CYS:N	2.12	0.46
30:A6:48:VAL:HG12	30:A6:49:VAL:N	2.30	0.46
32:A8:17:THR:O	32:A8:19:THR:N	2.48	0.46
32:A8:22:VAL:HG13	32:A8:23:MET:N	2.23	0.46
34:BA:65:U:H2'	34:BA:381:C:H5	1.81	0.46
34:BA:68:G:O4'	34:BA:171:A:H1'	2.16	0.46
34:BA:161:A:C6	34:BA:162:A:C6	3.04	0.46
34:BA:188:C:C2'	34:BA:189:G:O5'	2.64	0.46
34:BA:272:C:C2	34:BA:273:A:N7	2.84	0.46
34:BA:391:G:O3'	51:BS:8:ARG:NH2	2.48	0.46
34:BA:409:G:OP2	39:BG:22:LYS:HG2	2.16	0.46
34:BA:627:G:C2	34:BA:628:G:N7	2.84	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:668:G:N3	50:BR:46:HIS:CE1	2.83	0.46
34:BA:716:A:H2'	34:BA:717:C:C5'	2.46	0.46
34:BA:728:A:C6	34:BA:729:A:C5	3.04	0.46
34:BA:735:C:O2'	53:BU:75:ILE:CD1	2.64	0.46
34:BA:748:C:C6	34:BA:748:C:H3'	2.51	0.46
34:BA:790:A:C6	34:BA:791:G:C4	3.04	0.46
34:BA:818:G:N2	34:BA:820:U:H3	2.11	0.46
34:BA:892:A:C2	34:BA:893:C:C2	3.04	0.46
34:BA:3(A):G:O6	34:BA:1037:C:N3	2.49	0.46
34:BA:1068:G:H5'	34:BA:1388:C:OP1	2.16	0.46
34:BA:1160:G:C2	34:BA:1161:C:C6	3.04	0.46
34:BA:1169:A:N7	34:BA:1171:G:C5	2.84	0.46
34:BA:1195:C:N3	34:BA:1197:G:N7	2.64	0.46
34:BA:1206:G:O6	34:BA:1207:G:C6	2.69	0.46
34:BA:1283:G:H2'	34:BA:1284:C:H5'	1.97	0.46
34:BA:1286:A:C2'	34:BA:1287:A:O5'	2.64	0.46
34:BA:1290:G:H2'	34:BA:1291:G:H5'	1.97	0.46
34:BA:1343:G:H4'	44:BL:122:ALA:CB	2.27	0.46
34:BA:1404:C:H42	34:BA:1497:G:H1	1.64	0.46
34:BA:1419:G:O2'	34:BA:1420:C:H5'	2.15	0.46
34:BA:1488:G:C4	34:BA:1489:G:C8	3.03	0.46
35:BB:51:G:C8	35:BB:52:U:C5	3.04	0.46
35:BB:53:G:C8	35:BB:53:G:C3'	2.99	0.46
35:BB:58:A:C2	35:BB:61:C:C1'	3.00	0.46
35:BC:58:A:H3'	35:BC:58:A:C8	2.50	0.46
37:BE:23:ARG:C	37:BE:24:TRP:HD1	2.24	0.46
37:BE:32:ILE:HD11	37:BE:40:HIS:CB	2.46	0.46
37:BE:107:THR:C	37:BE:109:SER:N	2.70	0.46
37:BE:193:ASP:HB2	37:BE:196:LEU:HD21	1.98	0.46
38:BF:65:ALA:O	38:BF:66:VAL:CB	2.64	0.46
38:BF:206:GLU:OE2	38:BF:207:VAL:CG2	2.64	0.46
39:BG:13:ARG:NH2	39:BG:36:ARG:HD3	2.31	0.46
40:BH:107:ARG:C	40:BH:109:ILE:N	2.69	0.46
40:BH:144:THR:CG2	40:BH:145:LYS:N	2.78	0.46
40:BH:151:LEU:HD21	43:BK:67:PRO:CD	2.35	0.46
41:BI:16:GLN:CD	41:BI:16:GLN:C	2.81	0.46
42:BJ:102:ARG:HG2	42:BJ:103:TRP:N	2.31	0.46
43:BK:32:LYS:HG2	43:BK:33:GLU:N	2.29	0.46
43:BK:45:ILE:HD12	43:BK:48:TYR:HB3	1.93	0.46
45:BM:13:HIS:HB2	45:BM:68:HIS:HD1	1.81	0.46
46:BN:12:ARG:O	46:BN:13:GLN:O	2.32	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:50:TYR:CG	46:BN:54:ARG:HB2	2.51	0.46
46:BN:71:LYS:O	46:BN:74:ALA:HB3	2.16	0.46
47:BO:46:LYS:O	47:BO:47:LYS:C	2.59	0.46
47:BO:93:LEU:O	47:BO:96:VAL:CG2	2.60	0.46
47:BO:102:ARG:HH21	47:BO:109:GLY:C	2.23	0.46
47:BO:124:LYS:O	47:BO:125:PRO:C	2.59	0.46
48:BP:13:LYS:HA	48:BP:44:ARG:CZ	2.43	0.46
48:BP:16:ASP:HA	48:BP:19:LEU:CD2	2.45	0.46
49:BQ:54:PRO:O	49:BQ:55:GLY:C	2.59	0.46
52:BT:29:HIS:ND1	52:BT:32:TYR:N	2.64	0.46
52:BT:45:HIS:O	52:BT:73:VAL:CG2	2.48	0.46
52:BT:57:VAL:CG2	52:BT:58:GLU:N	2.77	0.46
53:BU:48:GLY:H	53:BU:49:LYS:HZ1	1.64	0.46
55:BW:39:LYS:O	55:BW:42:GLN:HB2	2.16	0.46
55:BW:44:ALA:HB3	55:BW:91:LEU:CD1	2.46	0.46
55:BW:57:ARG:HH21	55:BW:100:ILE:HB	1.81	0.46
55:BW:61:SER:C	55:BW:65:LYS:HG2	2.41	0.46
1:AB:0:A:N3	1:AB:0:A:O4'	2.48	0.45
1:AB:109:G:C2'	1:AB:110:G:O5'	2.64	0.45
2:AA:52:A:H2'	2:AA:53:A:C8	2.51	0.45
2:AA:105:C:O2	2:AA:106:C:C6	2.69	0.45
2:AA:111:A:H3'	2:AA:112:U:H5''	1.92	0.45
2:AA:204:A:C4	2:AA:206:U:C4	3.03	0.45
2:AA:270(I):G:C6	2:AA:270(J):G:N7	2.84	0.45
2:AA:338:G:OP1	2:AA:338:G:C8	2.68	0.45
2:AA:467:G:OP1	31:A7:30:ILE:CG2	2.64	0.45
2:AA:510:C:OP1	2:AA:512:G:N2	2.49	0.45
2:AA:606:U:OP2	6:AF:105:LYS:NZ	2.48	0.45
2:AA:611:C:C2	2:AA:617:G:N1	2.85	0.45
2:AA:641:C:N3	2:AA:647:G:C2	2.84	0.45
2:AA:658:C:O2	2:AA:659:C:N1	2.49	0.45
2:AA:752:A:C5	2:AA:1781:C:C1'	2.76	0.45
2:AA:904:C:H2'	2:AA:905:U:H6	1.82	0.45
2:AA:954:G:O2'	2:AA:955:C:H5'	2.16	0.45
2:AA:981:A:C5'	2:AA:982:C:OP2	2.61	0.45
2:AA:1022:G:O6	12:AM:47:THR:CG2	2.60	0.45
2:AA:1280:G:O2'	2:AA:1281:G:O5'	2.35	0.45
2:AA:1318:C:O2	2:AA:1318:C:H2'	2.15	0.45
2:AA:1358:G:H1	2:AA:1371:G:H2'	1.78	0.45
2:AA:1477:A:C2	2:AA:1516:U:O2	2.69	0.45
2:AA:1660:C:N3	2:AA:2001:A:C6	2.85	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1709:U:C6	2:AA:1709:U:C3'	2.99	0.45
2:AA:1741:C:C2'	2:AA:1742:C:C5'	2.85	0.45
2:AA:1903:G:C2'	2:AA:1904:G:H8	2.01	0.45
2:AA:1906:G:C4	2:AA:1907:G:N7	2.84	0.45
2:AA:1937:A:HO2'	2:AA:1938:A:P	2.40	0.45
2:AA:1999:C:O2'	2:AA:2000:G:C5'	2.62	0.45
2:AA:2014:A:H2'	2:AA:2015:A:N3	2.30	0.45
2:AA:2028:U:C2'	2:AA:2029:G:C8	2.90	0.45
2:AA:2287:A:N6	2:AA:2289:G:C2	2.85	0.45
2:AA:2302:G:C2'	2:AA:2303:G:O5'	2.64	0.45
2:AA:2450:A:N3	2:AA:2451:A:O4'	2.49	0.45
2:AA:2457:U:H2'	2:AA:2458:G:O4'	2.17	0.45
2:AA:2573:C:P	2:AA:2574:G:OP1	2.73	0.45
2:AA:2615:U:O2'	2:AA:2616:C:P	2.74	0.45
2:AA:2748:A:H2	2:AA:2758:A:N7	2.14	0.45
2:AA:2836:U:C2	2:AA:2837:G:C8	3.04	0.45
3:AC:89:ALA:HA	3:AC:154:ARG:NH2	2.31	0.45
3:AC:116:THR:CG2	3:AC:149:ILE:HD12	2.40	0.45
3:AC:137:LEU:HG	3:AC:164:ARG:HH21	1.80	0.45
4:AD:115:ILE:HG21	4:AD:127:ASN:ND2	2.31	0.45
5:AE:198:TYR:O	5:AE:314:ALA:CB	2.63	0.45
5:AE:216:ARG:NH2	5:AE:255:GLN:N	2.64	0.45
5:AE:221:LYS:CB	5:AE:222:ARG:HD2	2.46	0.45
6:AF:56:THR:HG22	6:AF:57:PRO:HD3	1.97	0.45
7:AG:25:MET:N	7:AG:129:ASP:OD2	2.49	0.45
7:AG:63:ILE:O	7:AG:64:ARG:C	2.59	0.45
7:AG:102:GLY:C	7:AG:103:ASN:CG	2.84	0.45
7:AG:138:GLY:O	7:AG:139:TYR:C	2.59	0.45
8:AH:115:GLU:CD	8:AH:115:GLU:C	2.84	0.45
10:AK:49:ALA:O	10:AK:52:GLN:HB2	2.16	0.45
12:AM:14:ALA:CA	12:AM:40:ASN:HD22	2.28	0.45
13:AN:5:GLU:HB3	13:AN:20:LEU:HD21	1.98	0.45
13:AN:10:VAL:HG23	13:AN:17:ARG:C	2.39	0.45
13:AN:25:LEU:O	13:AN:30:ARG:NH1	2.48	0.45
13:AN:31:ARG:O	13:AN:32:TYR:CD1	2.69	0.45
13:AN:79:PHE:O	13:AN:81:GLU:N	2.49	0.45
15:AP:82:LYS:HB2	15:AP:125:TRP:CA	2.45	0.45
15:AP:138:ARG:O	15:AP:139:ALA:C	2.58	0.45
16:AQ:87:LEU:O	16:AQ:90:LEU:N	2.49	0.45
18:AS:11:ARG:CG	18:AS:11:ARG:HH11	2.29	0.45
18:AS:63:ASP:N	18:AS:63:ASP:OD1	2.49	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:34:LYS:O	19:AT:35:GLY:O	2.34	0.45
21:AV:8:ARG:C	21:AV:9:THR:HG1	2.24	0.45
21:AV:163:ASP:OD2	21:AV:164:PRO:CD	2.64	0.45
23:AX:16:PRO:HB3	23:AX:19:GLN:OE1	2.15	0.45
24:A0:66:VAL:HG13	24:A0:70:LEU:HD11	1.98	0.45
24:A0:105:ARG:CZ	24:A0:105:ARG:CB	2.94	0.45
25:A1:87:ASN:C	25:A1:88:ILE:HD13	2.42	0.45
25:A1:89:ASP:CG	26:A2:51:ALA:C	2.82	0.45
25:A1:115:ASN:HA	25:A1:118:GLN:O	2.16	0.45
26:A2:42:GLY:HA3	26:A2:54:TYR:CE2	2.51	0.45
26:A2:60:VAL:C	26:A2:98:ILE:HB	2.33	0.45
28:A4:14:ILE:HG21	28:A4:38:GLY:O	2.16	0.45
30:A6:11:LYS:CE	30:A6:26:LYS:HE2	2.38	0.45
30:A6:45:LYS:C	30:A6:46:LYS:CG	2.87	0.45
34:BA:33:A:H2'	34:BA:33:A:N3	2.30	0.45
34:BA:83:U:C2	34:BA:84:U:C6	3.04	0.45
34:BA:90:U:C6	34:BA:90:U:OP2	2.69	0.45
34:BA:91:C:C2	34:BA:92:C:C6	3.05	0.45
34:BA:108:G:C6	55:BW:15:ARG:CD	2.99	0.45
34:BA:219:C:H6	34:BA:219:C:C3'	2.14	0.45
34:BA:238:G:O2'	34:BA:239:U:H5'	2.16	0.45
34:BA:255:G:OP2	52:BT:66:SER:HB3	2.17	0.45
34:BA:261:U:H5''	34:BA:262:A:OP2	2.16	0.45
34:BA:376:G:N2	34:BA:387:U:O2	2.44	0.45
34:BA:392:G:H5'	51:BS:12:LYS:NZ	2.30	0.45
34:BA:428:G:N2	34:BA:430:A:N6	2.63	0.45
34:BA:522:C:OP1	47:BO:120:TYR:HE2	1.99	0.45
34:BA:673:G:C6	34:BA:734:G:C6	3.04	0.45
34:BA:690:G:C2'	34:BA:691:G:C5'	2.94	0.45
34:BA:715:A:O4'	34:BA:777:A:C6	2.69	0.45
34:BA:888:G:OP2	34:BA:889:A:C2'	2.63	0.45
34:BA:1033:G:C2	34:BA:1034:G:C5	3.04	0.45
34:BA:1072:G:C2	34:BA:1104:G:N2	2.84	0.45
34:BA:1128:C:N4	34:BA:1139:G:H1	2.14	0.45
34:BA:1196:U:C4'	34:BA:1197:G:O5'	2.64	0.45
34:BA:1298:C:H4'	34:BA:1299:A:N3	2.30	0.45
34:BA:1378:C:H42	34:BA:1379:G:H1'	1.81	0.45
34:BA:1392:G:H21	34:BA:1502:A:H8	1.63	0.45
34:BA:1393:U:H2'	34:BA:1394:A:OP2	2.16	0.45
34:BA:1407:C:O5'	34:BA:1407:C:H6	1.99	0.45
34:BA:1414:U:H2'	34:BA:1415:G:H8	1.81	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1418:A:C2	34:BA:1483:A:C6	3.03	0.45
34:BA:1427:U:C2'	34:BA:1428:A:O5'	2.64	0.45
34:BA:1519:A:H3'	34:BA:1519:A:C8	2.51	0.45
34:BA:1520:G:H2'	34:BA:1521:G:C8	2.49	0.45
34:BA:1525:G:H2'	34:BA:1526:G:O4'	2.17	0.45
35:BB:7:U:O4	35:BB:67:A:C6	2.69	0.45
35:BB:7:U:C4'	35:BB:8:U:OP2	2.64	0.45
35:BC:26:G:H2'	35:BC:26:G:N3	2.31	0.45
35:BC:71:G:N2	35:BC:72:C:O2	2.50	0.45
37:BE:21:ARG:N	37:BE:39:ILE:HG12	2.31	0.45
37:BE:57:PHE:O	37:BE:60:ASP:HB3	2.17	0.45
37:BE:60:ASP:HB3	37:BE:64:ARG:HH12	1.82	0.45
37:BE:61:LEU:HD23	37:BE:62:ALA:N	2.31	0.45
37:BE:102:LEU:HD23	37:BE:176:GLU:HB2	1.92	0.45
37:BE:175:ARG:HD3	37:BE:179:LYS:HZ1	1.78	0.45
37:BE:179:LYS:O	37:BE:180:LEU:C	2.59	0.45
38:BF:29:TYR:HA	38:BF:32:LEU:HD12	1.98	0.45
38:BF:52:LEU:HA	38:BF:70:VAL:HG13	1.98	0.45
39:BG:10:ARG:C	39:BG:13:ARG:HB2	2.32	0.45
39:BG:120:LEU:CG	39:BG:125:HIS:HD2	2.30	0.45
39:BG:193:ASP:OD2	39:BG:194:LEU:CD2	2.63	0.45
40:BH:57:LYS:O	40:BH:58:ALA:C	2.59	0.45
40:BH:71:LEU:HD21	40:BH:114:GLY:O	2.16	0.45
40:BH:109:ILE:CD1	40:BH:135:THR:HG22	2.46	0.45
41:BI:49:ALA:CB	53:BU:79:LEU:N	2.79	0.45
41:BI:80:ARG:O	41:BI:85:VAL:HB	2.16	0.45
42:BJ:12:LEU:HD12	42:BJ:12:LEU:N	2.31	0.45
42:BJ:18:TYR:HD2	42:BJ:59:LEU:HD22	1.80	0.45
43:BK:29:SER:CB	43:BK:32:LYS:HZ2	2.19	0.45
44:BL:47:LEU:HD13	44:BL:50:LEU:CB	2.46	0.45
45:BM:51:ARG:H	45:BM:59:SER:CB	2.29	0.45
47:BO:46:LYS:C	47:BO:48:PRO:HD2	2.41	0.45
48:BP:14:ARG:O	48:BP:15:VAL:C	2.59	0.45
48:BP:29:ARG:HD3	48:BP:64:TRP:CD2	2.51	0.45
48:BP:29:ARG:CD	48:BP:64:TRP:CE2	2.99	0.45
48:BP:63:THR:HG22	48:BP:64:TRP:H	1.80	0.45
50:BR:4:THR:O	50:BR:5:LYS:C	2.58	0.45
53:BU:50:ILE:HD11	53:BU:74:ARG:NH2	2.30	0.45
1:AB:52:A:OP1	1:AB:52:A:H4'	2.15	0.45
1:AB:56:G:H8	1:AB:56:G:O5'	1.99	0.45
2:AA:52:A:H2'	2:AA:53:A:H8	1.80	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:143:C:OP2	2:AA:143:C:O4'	2.33	0.45
2:AA:200:U:C4	2:AA:201:C:O2	2.70	0.45
2:AA:280:C:C2	2:AA:360:G:N1	2.79	0.45
2:AA:326:G:O2'	2:AA:327:G:H5'	2.16	0.45
2:AA:339:U:H6	2:AA:339:U:H5''	1.82	0.45
2:AA:364:C:C2'	2:AA:365:C:C6	2.98	0.45
2:AA:398:G:OP1	28:A4:58:LYS:CD	2.64	0.45
2:AA:466:A:O3'	31:A7:30:ILE:HG21	2.16	0.45
2:AA:502:A:H3'	2:AA:502:A:H8	1.80	0.45
2:AA:519:U:C4'	18:AS:75:TYR:CB	2.88	0.45
2:AA:531:C:O2	2:AA:531:C:C2'	2.54	0.45
2:AA:629:G:C1'	2:AA:639:U:O2'	2.43	0.45
2:AA:630:G:O2'	2:AA:631:A:H8	1.99	0.45
2:AA:637:A:OP2	14:AO:109:LEU:CD2	2.60	0.45
2:AA:658:C:H2'	2:AA:659:C:C6	2.51	0.45
2:AA:709:U:C2'	2:AA:710:G:C8	2.89	0.45
2:AA:729:G:N2	2:AA:1775:U:O4'	2.50	0.45
2:AA:799:G:OP2	2:AA:799:G:H8	1.99	0.45
2:AA:814:C:N3	2:AA:1193:G:O6	2.48	0.45
2:AA:819:A:N3	2:AA:1189:A:C2	2.84	0.45
2:AA:885:C:H3'	2:AA:885:C:C6	2.49	0.45
2:AA:885:C:H5''	2:AA:887:A:C2	2.51	0.45
2:AA:904:C:O2'	2:AA:905:U:H5'	2.15	0.45
2:AA:944:G:O2'	2:AA:945:A:OP2	2.29	0.45
2:AA:996:A:O3'	25:A1:93:LYS:CG	2.57	0.45
2:AA:1151:G:C5'	25:A1:81:ASN:HD21	2.29	0.45
2:AA:1163:G:H4'	26:A2:23:GLU:OE2	2.16	0.45
2:AA:1360:A:N6	2:AA:1372:U:C6	2.84	0.45
2:AA:1364:G:P	2:AA:1809:A:N6	2.89	0.45
2:AA:1439:A:C8	2:AA:1440:G:C1'	2.99	0.45
2:AA:1475:G:O6	2:AA:1517:G:C2	2.69	0.45
2:AA:1565:C:C2	2:AA:1567:A:O4'	2.69	0.45
2:AA:1625:C:C5	2:AA:1626:G:H8	2.34	0.45
2:AA:1636:C:O2'	2:AA:1760:A:C2'	2.65	0.45
2:AA:1637:A:O2'	2:AA:2711:A:H1'	2.15	0.45
2:AA:1666:G:C2	2:AA:1995:U:O2	2.69	0.45
2:AA:1699:G:C5	2:AA:1763:G:C2	3.04	0.45
2:AA:1717:G:C2	2:AA:1718:G:N3	2.84	0.45
2:AA:1741:C:C2'	2:AA:1741:C:O2	2.64	0.45
2:AA:1755:A:OP2	2:AA:1755:A:H8	1.98	0.45
2:AA:1926:U:O5'	2:AA:1926:U:H6	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2010:G:O2'	2:AA:2011:U:H5'	2.17	0.45
2:AA:2019:A:O2'	2:AA:2020:A:C4'	2.65	0.45
2:AA:2137:C:C4'	2:AA:2137:C:OP1	2.65	0.45
2:AA:2206:C:C2	2:AA:2207:C:C6	3.04	0.45
2:AA:2218:G:C2	2:AA:2219:G:C4	3.04	0.45
2:AA:2306:C:N4	2:AA:2311:A:C2	2.67	0.45
2:AA:2312:U:O4	2:AA:2313:C:N4	2.49	0.45
2:AA:2404:C:C4	2:AA:2405:G:C5	3.03	0.45
2:AA:2519:U:OP1	2:AA:2519:U:C3'	2.56	0.45
2:AA:2548:G:C3'	2:AA:2548:G:C8	2.99	0.45
2:AA:2587:A:C2'	2:AA:2588:G:C5'	2.89	0.45
2:AA:2669:G:H2'	2:AA:2670:A:O5'	2.16	0.45
2:AA:2767:C:C4	2:AA:2768:C:N4	2.84	0.45
2:AA:2818:G:N1	2:AA:2829:C:C4	2.84	0.45
4:AD:70:LYS:HG3	4:AD:73:ILE:HD12	1.99	0.45
4:AD:146:LYS:HE3	4:AD:184:LEU:HD11	1.98	0.45
6:AF:21:VAL:HG11	6:AF:246:ARG:O	2.17	0.45
6:AF:213:ALA:HB1	6:AF:218:VAL:CB	2.45	0.45
7:AG:47:GLN:O	7:AG:48:MET:O	2.34	0.45
8:AH:58:LYS:CA	8:AH:61:ARG:CZ	2.95	0.45
9:AI:20:GLU:OE1	9:AJ:53:GLN:NE2	2.49	0.45
10:AK:66:LYS:O	10:AK:69:LYS:CB	2.62	0.45
12:AM:23:ALA:C	12:AM:26:VAL:HB	2.36	0.45
12:AM:74:ARG:CD	12:AM:141:ALA:O	2.64	0.45
13:AN:5:GLU:HA	13:AN:20:LEU:CD2	2.46	0.45
13:AN:68:GLY:CA	13:AN:78:ARG:CG	2.94	0.45
13:AN:68:GLY:N	13:AN:78:ARG:HE	2.04	0.45
15:AP:35:ASN:CG	21:AV:114:ASP:H	2.25	0.45
15:AP:62:GLU:HG3	15:AP:62:GLU:H	1.46	0.45
16:AQ:26:LEU:HD13	16:AQ:101:VAL:HG22	1.97	0.45
16:AQ:34:LEU:HD23	16:AQ:100:ALA:HB3	1.97	0.45
16:AQ:70:GLY:C	16:AQ:71:TRP:CE3	2.95	0.45
16:AQ:93:GLN:O	16:AQ:94:GLU:C	2.59	0.45
18:AS:11:ARG:O	18:AS:12:ILE:HG13	2.16	0.45
19:AT:22:ASN:C	19:AT:23:LYS:O	2.59	0.45
21:AV:40:ASP:HB2	21:AV:41:ARG:HE	1.81	0.45
22:AW:20:LEU:HD11	22:AW:53:ILE:CG2	2.46	0.45
22:AW:27:LEU:HD12	22:AW:53:ILE:HD12	1.99	0.45
23:AX:19:GLN:CD	23:AX:19:GLN:N	2.69	0.45
24:A0:52:ILE:CD1	24:A0:94:TYR:CB	2.79	0.45
24:A0:103:ARG:HB2	24:A0:108:GLY:C	2.41	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:49:ASP:HB3	25:A1:53:LYS:HE3	1.98	0.45
25:A1:87:ASN:HB3	25:A1:88:ILE:HD13	1.97	0.45
26:A2:1:MET:C	26:A2:2:PHE:CD1	2.91	0.45
26:A2:40:VAL:HA	26:A2:51:ALA:O	2.16	0.45
27:A3:5:LYS:NZ	35:BC:3:G:OP1	2.45	0.45
29:A5:30:LEU:HD23	29:A5:41:LEU:HA	1.97	0.45
31:A7:22:MET:O	31:A7:28:ARG:CG	2.62	0.45
32:A8:54:GLU:O	32:A8:55:TRP:O	2.34	0.45
32:A8:64:ARG:CG	32:A8:64:ARG:HH11	2.29	0.45
34:BA:13:U:H6	34:BA:13:U:C5'	2.18	0.45
34:BA:20:U:C6	34:BA:20:U:O5'	2.69	0.45
34:BA:30:U:O2'	34:BA:31:G:P	2.74	0.45
34:BA:58:C:C6	34:BA:58:C:H5''	2.51	0.45
34:BA:108:G:N2	34:BA:108:G:OP2	2.50	0.45
34:BA:112:G:H2'	34:BA:113:G:H5'	1.99	0.45
34:BA:269:C:C2'	34:BA:270:A:O5'	2.65	0.45
34:BA:325:A:OP2	55:BW:70:SER:HB2	2.15	0.45
34:BA:359:U:H2'	34:BA:360:A:C8	2.46	0.45
34:BA:379:C:H2'	34:BA:380:G:H5'	1.97	0.45
34:BA:391:G:H2'	34:BA:392:G:O5'	2.17	0.45
34:BA:411:A:C8	34:BA:411:A:H3'	2.52	0.45
34:BA:421:U:O5'	34:BA:422:C:H5	1.98	0.45
34:BA:517:G:O2'	34:BA:530:G:C4'	2.41	0.45
34:BA:540:G:N3	34:BA:541:G:H1'	2.31	0.45
34:BA:543:C:C2	34:BA:544:G:N7	2.85	0.45
34:BA:698:G:H3'	34:BA:698:G:P	2.55	0.45
34:BA:731:G:H2'	34:BA:732:C:H6	1.81	0.45
34:BA:746:A:C8	34:BA:746:A:O5'	2.69	0.45
34:BA:810:C:H2'	34:BA:811:C:O5'	2.16	0.45
34:BA:834:C:C4	34:BA:853:G:N1	2.84	0.45
34:BA:932:C:H4'	42:BJ:4:ARG:NH1	2.30	0.45
34:BA:958:A:C1'	54:BV:55:LYS:HD2	2.45	0.45
34:BA:989:C:O2'	34:BA:990:C:H5'	2.16	0.45
34:BA:995:C:H2'	49:BQ:4:LYS:HZ2	1.80	0.45
34:BA:1017:G:O2'	34:BA:1018:C:H5'	2.16	0.45
34:BA:1025:U:H2'	34:BA:1026:G:C5	2.51	0.45
34:BA:1032:G:O2'	34:BA:1033:G:O4'	2.31	0.45
34:BA:1091:U:C4	34:BA:1093:A:P	3.09	0.45
34:BA:1095:U:P	34:BA:1108:G:H1	2.34	0.45
34:BA:1104:G:O2'	34:BA:1105:A:C5'	2.54	0.45
34:BA:1138:G:C2	34:BA:1140:C:C5	3.04	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1158:C:O2	34:BA:1158:C:H2'	2.16	0.45
34:BA:1168:A:N1	34:BA:1169:A:C2	2.84	0.45
34:BA:1190:G:O2'	34:BA:1191:A:OP2	2.32	0.45
34:BA:1206:G:O4'	38:BF:194:GLY:HA2	2.17	0.45
34:BA:1211:U:O2'	34:BA:1213:A:N3	2.45	0.45
34:BA:1281:U:H3'	34:BA:1281:U:C6	2.49	0.45
34:BA:1284:C:H2'	34:BA:1285:A:N7	2.28	0.45
34:BA:1315:U:C3'	34:BA:1316:G:C8	2.94	0.45
34:BA:1353:G:C6	34:BA:1354:C:N4	2.84	0.45
34:BA:1386:G:H2'	34:BA:1387:G:O5'	2.16	0.45
34:BA:1412:C:C2	34:BA:1413:A:C8	3.04	0.45
34:BA:1496:C:C4	34:BA:1497:G:C5	3.04	0.45
35:BC:2:C:H2'	35:BC:3:G:O5'	2.16	0.45
35:BC:50:U:N3	35:BC:65:G:N2	2.64	0.45
37:BE:57:PHE:O	37:BE:57:PHE:HD2	2.00	0.45
37:BE:59:GLU:CA	37:BE:221:LEU:HD21	2.43	0.45
38:BF:12:LEU:CD1	38:BF:18:TRP:N	2.65	0.45
38:BF:183:ASP:OD2	38:BF:184:TYR:N	2.50	0.45
38:BF:188:LEU:HD22	38:BF:189:ALA:H	1.81	0.45
40:BH:11:ILE:CB	40:BH:31:LEU:HD22	2.45	0.45
40:BH:109:ILE:HD12	40:BH:135:THR:CG2	2.47	0.45
41:BI:21:LEU:O	41:BI:24:GLU:CG	2.61	0.45
41:BI:33:TYR:CZ	41:BI:75:LEU:CA	2.97	0.45
41:BI:46:ARG:NH1	53:BU:37:VAL:CG2	2.78	0.45
42:BJ:10:ARG:HH11	42:BJ:10:ARG:CB	2.29	0.45
42:BJ:64:GLN:HG3	42:BJ:68:ASN:HD21	1.81	0.45
42:BJ:76:ARG:CZ	42:BJ:89:MET:CE	2.94	0.45
44:BL:71:SER:O	44:BL:72:GLY:C	2.57	0.45
44:BL:114:TYR:N	44:BL:114:TYR:HD2	2.13	0.45
45:BM:16:LEU:HB3	45:BM:70:ARG:HE	1.81	0.45
46:BN:99:GLN:HB3	46:BN:105:VAL:HG11	1.98	0.45
48:BP:108:ARG:NH1	48:BP:111:LYS:HB3	2.30	0.45
50:BR:42:HIS:CE1	50:BR:46:HIS:CD2	3.03	0.45
50:BR:67:LEU:HB3	50:BR:78:TYR:CE1	2.50	0.45
51:BS:5:ARG:HA	51:BS:67:THR:OG1	2.16	0.45
51:BS:21:VAL:HG21	51:BS:59:TRP:NE1	2.30	0.45
52:BT:53:LEU:CG	52:BT:54:GLY:N	2.79	0.45
52:BT:86:GLU:OE2	52:BT:89:LEU:CD1	2.63	0.45
53:BU:62:GLU:C	53:BU:66:LEU:CD2	2.89	0.45
54:BV:53:ASN:ND2	54:BV:58:VAL:HG13	2.28	0.45
55:BW:81:LYS:O	55:BW:84:LEU:N	2.49	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BW:83:ARG:HB3	55:BW:87:LYS:HE3	1.99	0.45
1:AB:20:C:O2'	1:AB:21:G:H5'	2.17	0.45
2:AA:43:G:N2	2:AA:44:A:H1'	2.31	0.45
2:AA:94:G:H22	22:AW:42:ASN:ND2	2.09	0.45
2:AA:124:G:O2'	31:A7:19:ARG:NH1	2.49	0.45
2:AA:326:G:C5	2:AA:327:G:N7	2.85	0.45
2:AA:499:U:C2'	2:AA:500:G:C5'	2.90	0.45
2:AA:503:A:C2	2:AA:506:G:N3	2.84	0.45
2:AA:586:A:H5''	2:AA:587:C:OP1	2.16	0.45
2:AA:603:A:H61	2:AA:624:C:H41	1.62	0.45
2:AA:625:G:N1	2:AA:626:U:O4'	2.49	0.45
2:AA:650:C:N3	2:AA:651:G:C4	2.84	0.45
2:AA:666:G:C4	2:AA:667:U:C5	3.04	0.45
2:AA:684:G:H2'	2:AA:775:G:O6	2.15	0.45
2:AA:740:U:O2'	2:AA:741:G:C5'	2.63	0.45
2:AA:771:G:N3	2:AA:772:C:C5	2.85	0.45
2:AA:881:G:C5	2:AA:882:G:C5	3.04	0.45
2:AA:955:C:N4	2:AA:962:G:N1	2.18	0.45
2:AA:1001:A:N7	2:AA:1002:G:C4	2.84	0.45
2:AA:1011:G:O2'	2:AA:1013:C:H5''	2.16	0.45
2:AA:1033:U:O5'	2:AA:1034:G:OP1	2.33	0.45
2:AA:1044:G:N1	2:AA:1048:A:C6	2.85	0.45
2:AA:1080:C:HO2'	11:AL:127:ILE:HG13	1.82	0.45
2:AA:1092:C:H3'	2:AA:1092:C:H6	1.80	0.45
2:AA:1121:C:C2	2:AA:1122:G:C8	3.05	0.45
2:AA:1179:C:C2	2:AA:1180:C:H5	2.35	0.45
2:AA:1270:C:H1'	2:AA:1325:G:C6	2.51	0.45
2:AA:1326:U:O2'	2:AA:2010:G:O2'	2.20	0.45
2:AA:1342:A:H2'	2:AA:1345:C:H41	1.81	0.45
2:AA:1351:C:C4	2:AA:1381:G:C2	3.05	0.45
2:AA:1418:G:N2	2:AA:1580:A:C2	2.85	0.45
2:AA:1566:A:C2	4:AD:212:HIS:HB3	2.49	0.45
2:AA:1629:U:O2	2:AA:2698:U:H5''	2.17	0.45
2:AA:1644:C:O2	2:AA:1644:C:H2'	2.17	0.45
2:AA:1668:A:C8	2:AA:1993:U:O4	2.69	0.45
2:AA:1671:U:O2'	5:AE:225:LYS:HE3	2.16	0.45
2:AA:1780:A:P	2:AA:1782:C:OP1	2.74	0.45
2:AA:1785:A:H8	2:AA:1785:A:C3'	2.29	0.45
2:AA:1818:U:O2	2:AA:1818:U:H2'	2.16	0.45
2:AA:1885:A:C8	2:AA:1886:C:C5	3.04	0.45
2:AA:1935:G:C6	2:AA:1962:C:C5	3.04	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2131:G:H2'	3:AC:5:LYS:O	2.17	0.45
2:AA:2195:C:O2'	2:AA:2196:C:C4'	2.64	0.45
2:AA:2261:C:O5'	2:AA:2261:C:H6	1.99	0.45
2:AA:2318:G:O2'	2:AA:2319:G:OP2	2.28	0.45
2:AA:2345:G:N2	2:AA:2382:G:P	2.82	0.45
2:AA:2349:G:N1	2:AA:2369:A:C6	2.85	0.45
2:AA:2351:G:C5'	2:AA:2352:A:OP1	2.64	0.45
2:AA:2466:C:C6	2:AA:2466:C:C3'	3.00	0.45
2:AA:2476:A:C8	2:AA:2476:A:H3'	2.51	0.45
2:AA:2767:C:H2'	2:AA:2768:C:O5'	2.15	0.45
2:AA:2853:C:C2'	2:AA:2854:G:C5'	2.91	0.45
2:AA:2862:G:O2'	2:AA:2863:C:C5'	2.64	0.45
2:AA:2900:A:H2'	2:AA:2901:C:C6	2.48	0.45
3:AC:28:LEU:HA	3:AC:31:GLU:OE1	2.14	0.45
3:AC:29:VAL:HG22	3:AC:216:THR:HG23	1.98	0.45
3:AC:53:ARG:C	3:AC:55:ASP:N	2.74	0.45
3:AC:108:MET:HE1	3:AC:130:ILE:O	2.17	0.45
3:AC:110:PHE:CE1	3:AC:136:LEU:HD13	2.51	0.45
3:AC:180:PHE:HD2	3:AC:184:LYS:CB	2.29	0.45
4:AD:174:ARG:CZ	4:AD:174:ARG:CB	2.90	0.45
5:AE:61:PRO:CB	5:AE:69:PRO:CA	2.74	0.45
5:AE:261:ARG:C	5:AE:262:THR:HG22	2.41	0.45
5:AE:292:PRO:C	5:AE:293:TYR:CD2	2.93	0.45
6:AF:112:ARG:O	6:AF:113:SER:C	2.56	0.45
6:AF:138:VAL:O	6:AF:139:VAL:HB	2.16	0.45
6:AF:144:PHE:CD2	6:AF:156:LEU:HD11	2.52	0.45
6:AF:193:LEU:CD1	6:AF:223:LEU:HB2	2.47	0.45
7:AG:38:GLU:HA	7:AG:41:LEU:CG	2.45	0.45
7:AG:133:ASN:C	7:AG:134:LEU:O	2.58	0.45
8:AH:40:MET:C	8:AH:40:MET:HE2	2.41	0.45
9:AJ:13:LEU:HD13	9:AJ:21:LEU:HD12	1.99	0.45
9:AJ:111:ALA:HB1	9:AJ:115:LYS:HE3	1.97	0.45
10:AK:94:THR:CG2	10:AK:94:THR:O	2.64	0.45
10:AK:97:GLN:O	10:AK:98:ILE:C	2.59	0.45
11:AL:95:LYS:O	11:AL:96:ILE:C	2.60	0.45
12:AM:42:GLU:O	12:AM:132:LEU:O	2.35	0.45
15:AP:35:ASN:CB	15:AP:75:SER:HA	2.47	0.45
15:AP:72:VAL:O	15:AP:73:GLN:CB	2.64	0.45
16:AQ:34:LEU:HA	16:AQ:47:LEU:CD2	2.46	0.45
17:AR:49:LEU:HD13	17:AR:54:THR:HG21	1.98	0.45
18:AS:4:LYS:HE3	18:AS:106:ILE:CG1	2.46	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:11:ARG:C	18:AS:12:ILE:CG1	2.90	0.45
18:AS:29:LEU:C	18:AS:33:ARG:HD2	2.42	0.45
19:AT:6:LYS:NZ	19:AT:28:VAL:O	2.43	0.45
19:AT:23:LYS:HG2	19:AT:67:ARG:CG	2.45	0.45
19:AT:50:GLU:HB2	19:AT:51:GLN:H	1.57	0.45
20:AU:54:ASP:C	20:AU:56:ALA:N	2.73	0.45
20:AU:65:VAL:HA	20:AU:72:ILE:CG1	2.47	0.45
20:AU:92:ASP:OD2	20:AU:94:SER:HB3	2.15	0.45
20:AU:101:LEU:HD22	20:AU:103:LEU:HG	1.97	0.45
21:AV:51:LEU:CD2	21:AV:65:LEU:HG	2.47	0.45
24:A0:57:ARG:NE	24:A0:62:ALA:HB2	2.29	0.45
24:A0:65:LEU:O	24:A0:68:ARG:CB	2.64	0.45
26:A2:5:ILE:HD12	26:A2:39:PHE:CE2	2.51	0.45
26:A2:95:ILE:HD12	26:A2:95:ILE:H	1.80	0.45
27:A3:24:LYS:C	27:A3:25:LYS:HG3	2.41	0.45
27:A3:31:VAL:O	27:A3:32:LYS:C	2.59	0.45
27:A3:74:LYS:O	27:A3:75:GLY:O	2.33	0.45
29:A5:6:VAL:HG13	29:A5:7:PRO:CG	2.47	0.45
29:A5:40:LYS:NZ	29:A5:49:CYS:SG	2.86	0.45
34:BA:97:G:C5	34:BA:98:U:C5	3.04	0.45
34:BA:101:A:C4	34:BA:102:G:N7	2.84	0.45
34:BA:134:A:H1'	34:BA:325:A:N1	2.31	0.45
34:BA:161:A:C2'	34:BA:162:A:O5'	2.64	0.45
34:BA:285:G:C5	34:BA:286:G:N7	2.85	0.45
34:BA:341:C:O2'	34:BA:342:C:C5'	2.65	0.45
34:BA:359:U:O2'	34:BA:360:A:H5'	2.16	0.45
34:BA:397:A:N6	34:BA:548:G:C5	2.84	0.45
34:BA:575:G:C6	34:BA:821:G:N7	2.84	0.45
34:BA:582:U:N1	52:BT:105:ALA:HB1	2.31	0.45
34:BA:608:A:N3	34:BA:609:A:C8	2.85	0.45
34:BA:707:C:H2'	34:BA:708:C:C5'	2.47	0.45
34:BA:739:C:N3	34:BA:740:U:C6	2.84	0.45
34:BA:751:U:OP1	50:BR:18:PHE:CZ	2.69	0.45
34:BA:806:C:N3	34:BA:807:A:C5	2.85	0.45
34:BA:934:C:C5	34:BA:1344:C:C5	3.04	0.45
34:BA:947:G:C4	34:BA:948:C:C5	3.05	0.45
34:BA:1017:G:H2'	34:BA:1018:C:C6	2.49	0.45
34:BA:1030:C:C4	34:BA:1032:G:C6	3.05	0.45
34:BA:1047:G:H2'	34:BA:1048:G:H5'	1.98	0.45
34:BA:1422:G:C6	34:BA:1423:G:C5	3.04	0.45
34:BA:1494:G:N3	34:BA:1495:U:H5	2.15	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1514:C:C4	34:BA:1515:C:N4	2.84	0.45
34:BA:1539:C:OP1	53:BU:54:ARG:NH1	2.49	0.45
35:BC:11:C:H2'	35:BC:12:U:C6	2.51	0.45
35:BC:34:G:N1	36:B1:62:G:N1	2.47	0.45
36:B1:14:U:OP2	36:B1:14:U:H6	1.99	0.45
36:B1:15:A:C2	36:B1:41:U:O2	2.68	0.45
37:BE:61:LEU:HD21	37:BE:66:GLY:O	2.16	0.45
37:BE:70:PHE:CD1	37:BE:90:MET:HB2	2.49	0.45
37:BE:71:VAL:CG2	37:BE:93:VAL:HB	2.46	0.45
37:BE:72:GLY:C	37:BE:74:LYS:H	2.23	0.45
37:BE:132:LYS:C	37:BE:133:LYS:HE2	2.40	0.45
37:BE:193:ASP:CB	37:BE:196:LEU:HD21	2.46	0.45
37:BE:221:LEU:HD13	37:BE:221:LEU:O	2.17	0.45
38:BF:20:SER:OG	38:BF:57:ILE:HB	2.17	0.45
38:BF:20:SER:HB2	38:BF:40:ARG:HH22	1.75	0.45
38:BF:121:ALA:CB	38:BF:187:ALA:HB1	2.47	0.45
39:BG:38:TYR:CB	39:BG:39:PRO:HD2	2.25	0.45
39:BG:40:PRO:O	39:BG:44:GLY:CA	2.62	0.45
40:BH:9:LYS:NZ	40:BH:108:ALA:HA	2.32	0.45
40:BH:62:ALA:O	40:BH:64:ARG:O	2.34	0.45
41:BI:12:PRO:HG3	41:BI:57:GLN:HE22	1.82	0.45
41:BI:44:GLY:C	41:BI:45:LEU:HG	2.41	0.45
42:BJ:31:MET:O	42:BJ:32:ARG:HB3	2.16	0.45
42:BJ:35:LYS:C	42:BJ:37:ASN:N	2.71	0.45
46:BN:31:THR:HG23	46:BN:42:TRP:CB	2.33	0.45
46:BN:32:ILE:HG12	46:BN:41:THR:O	2.16	0.45
46:BN:126:ARG:O	46:BN:127:LYS:C	2.59	0.45
47:BO:33:ARG:HA	47:BO:33:ARG:NE	2.24	0.45
48:BP:73:GLU:CD	48:BP:74:VAL:N	2.75	0.45
48:BP:91:ARG:HD2	48:BP:98:VAL:HA	1.98	0.45
49:BQ:24:CYS:CA	49:BQ:33:VAL:HG11	2.46	0.45
51:BS:6:LEU:CD2	51:BS:17:TYR:HD2	2.08	0.45
51:BS:48:TRP:H	51:BS:48:TRP:CD1	2.35	0.45
53:BU:74:ARG:CA	53:BU:79:LEU:CD2	2.93	0.45
53:BU:78:LEU:C	53:BU:79:LEU:HD13	2.41	0.45
54:BV:13:ASP:O	54:BV:14:HIS:C	2.59	0.45
54:BV:33:THR:CG2	54:BV:34:TRP:N	2.79	0.45
54:BV:72:GLY:C	54:BV:74:PHE:N	2.74	0.45
55:BW:43:LEU:HD22	55:BW:48:LYS:HG2	1.99	0.45
56:BX:5:ASP:OD1	56:BX:7:ARG:N	2.46	0.45
1:AB:32:C:N3	1:AB:51:G:C2	2.85	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:73:A:N3	1:AB:74:U:C6	2.84	0.45
2:AA:21:A:C5	2:AA:22:C:C5	3.04	0.45
2:AA:25:U:C4	2:AA:26:G:C5	3.04	0.45
2:AA:27:G:H1'	2:AA:513:A:N6	2.32	0.45
2:AA:54:G:O2'	31:A7:35:ARG:NH2	2.49	0.45
2:AA:124:G:OP1	2:AA:1376:C:O4'	2.34	0.45
2:AA:239:U:H2'	2:AA:240:G:H8	1.80	0.45
2:AA:289:A:C8	2:AA:350:U:O4	2.69	0.45
2:AA:319:C:C4	2:AA:333:G:C2	3.04	0.45
2:AA:319:C:N1	2:AA:320:A:C8	2.85	0.45
2:AA:339:U:C4	2:AA:340:A:C6	3.04	0.45
2:AA:372:G:O6	2:AA:424:G:OP2	2.35	0.45
2:AA:388:G:OP2	28:A4:23:GLU:CB	2.54	0.45
2:AA:390:A:O2'	2:AA:391:G:C8	2.68	0.45
2:AA:424:G:C2	2:AA:425:G:C8	3.04	0.45
2:AA:499:U:H3'	2:AA:500:G:C8	2.52	0.45
2:AA:645:C:OP2	2:AA:2369:A:H4'	2.16	0.45
2:AA:747:U:O5'	2:AA:747:U:H6	2.00	0.45
2:AA:778:G:C2	2:AA:787:U:C2	3.04	0.45
2:AA:863:A:N3	2:AA:864:G:N7	2.65	0.45
2:AA:879:G:N1	2:AA:880:G:C5	2.85	0.45
2:AA:930:U:O3'	2:AA:931:G:H4'	2.16	0.45
2:AA:936:C:C2'	2:AA:937:U:O5'	2.65	0.45
2:AA:968:G:H8	2:AA:968:G:O5'	2.00	0.45
2:AA:1003:G:N1	2:AA:1153:C:C5	2.85	0.45
2:AA:1021:A:C2	2:AA:1122:G:C4'	3.00	0.45
2:AA:1147:C:C6	2:AA:1147:C:C3'	3.00	0.45
2:AA:1151:G:O2'	2:AA:1152:C:H5'	2.17	0.45
2:AA:1216:G:OP1	25:A1:8:ILE:HG22	2.16	0.45
2:AA:1303:G:N7	2:AA:1304:C:N4	2.64	0.45
2:AA:1308:A:N1	2:AA:1608:A:N1	2.64	0.45
2:AA:1359:A:O2'	2:AA:1360:A:H5'	2.16	0.45
2:AA:1425:G:H2'	2:AA:1426:G:C4	2.51	0.45
2:AA:1538:G:C8	2:AA:1539:G:O4'	2.69	0.45
2:AA:1561:G:O5'	2:AA:1561:G:H8	1.99	0.45
2:AA:1664:A:C8	2:AA:1664:A:C3'	3.00	0.45
2:AA:1669:A:H4'	2:AA:2550:G:P	2.57	0.45
2:AA:1669:A:N3	2:AA:1670:C:H5'	2.31	0.45
2:AA:1788:C:H2'	2:AA:1789:A:H8	1.81	0.45
2:AA:1834:U:O2	2:AA:1834:U:C2'	2.60	0.45
2:AA:1856:G:H2'	2:AA:1857:G:C5'	2.46	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1948:G:C2	2:AA:1949:G:C5	3.04	0.45
2:AA:1975:G:C6	2:AA:1976:U:C4	3.04	0.45
2:AA:2000:G:N1	2:AA:2001:A:C5	2.84	0.45
2:AA:2044:C:C2'	2:AA:2045:C:H5'	2.46	0.45
2:AA:2056:G:P	2:AA:2057:A:OP2	2.74	0.45
2:AA:2079:U:O3'	28:A4:32:HIS:CD2	2.70	0.45
2:AA:2206:C:C4	2:AA:2207:C:C5	3.04	0.45
2:AA:2228:G:N7	2:AA:2229:C:C5	2.84	0.45
2:AA:2246:G:C4	2:AA:2426:A:N3	2.85	0.45
2:AA:2254:C:C2'	2:AA:2255:G:C5'	2.86	0.45
2:AA:2269:A:O2'	2:AA:2270:G:C5'	2.65	0.45
2:AA:2275:C:HO2'	2:AA:2276:G:P	2.37	0.45
2:AA:2498:C:C2'	2:AA:2498:C:O2	2.57	0.45
2:AA:2505:G:H2'	2:AA:2576:G:H21	1.74	0.45
2:AA:2516:G:H2'	2:AA:2517:C:C6	2.51	0.45
2:AA:2528:U:P	33:A9:30:VAL:HG11	2.57	0.45
2:AA:2532:G:H21	2:AA:2663:G:H1'	1.81	0.45
2:AA:2564:A:O2'	2:AA:2565:A:C5'	2.62	0.45
2:AA:2638:G:N7	2:AA:2775:A:C6	2.85	0.45
2:AA:2736:G:N1	2:AA:2769:C:C4	2.85	0.45
2:AA:2794:C:N4	2:AA:2802:G:N1	2.42	0.45
3:AC:70:LYS:HA	3:AC:157:LYS:HE2	1.98	0.45
4:AD:74:PRO:O	4:AD:74:PRO:HG2	2.16	0.45
5:AE:72:VAL:CG1	5:AE:295:LEU:HD21	2.47	0.45
5:AE:180:ILE:HG21	5:AE:187:HIS:HA	1.98	0.45
6:AF:24:THR:HB	6:AF:25:PRO:CD	2.45	0.45
6:AF:89:ALA:HB3	6:AF:90:HIS:CE1	2.51	0.45
6:AF:194:PHE:CE1	6:AF:210:ALA:HA	2.52	0.45
6:AF:232:LEU:O	6:AF:233:THR:HG22	2.16	0.45
8:AH:88:LEU:HD23	8:AH:88:LEU:C	2.42	0.45
9:AI:64:LYS:HE2	9:AI:125:VAL:C	2.42	0.45
10:AK:6:LEU:HD22	10:AK:6:LEU:O	2.17	0.45
10:AK:32:LYS:O	10:AK:33:GLN:O	2.34	0.45
10:AK:69:LYS:CG	10:AK:73:GLU:OE1	2.65	0.45
10:AK:77:VAL:CG1	10:AK:143:VAL:HG22	2.43	0.45
10:AK:115:ILE:CG2	10:AK:129:VAL:HG11	2.47	0.45
11:AL:9:ILE:HD13	11:AL:28:LEU:HD22	1.97	0.45
11:AL:79:LEU:O	11:AL:82:ALA:HB3	2.17	0.45
11:AL:97:VAL:O	11:AL:99:LYS:HD2	2.16	0.45
12:AM:17:CYS:HB2	12:AM:22:VAL:CG2	2.43	0.45
12:AM:108:PRO:C	12:AM:109:TYR:CG	2.94	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:12:ASP:OD2	13:AN:14:SER:OG	2.20	0.45
15:AP:21:SER:OG	15:AP:92:VAL:HG21	2.16	0.45
15:AP:33:MET:CE	21:AV:174:PRO:O	2.65	0.45
15:AP:36:ASN:HD22	15:AP:41:THR:N	2.08	0.45
15:AP:76:GLY:HA2	15:AP:126:VAL:CG2	2.46	0.45
15:AP:101:MET:C	15:AP:101:MET:CE	2.88	0.45
18:AS:18:ARG:NE	18:AS:76:VAL:HG12	2.32	0.45
21:AV:43:PHE:HB3	21:AV:47:SER:OG	2.16	0.45
24:A0:25:ALA:O	24:A0:28:LEU:HB3	2.16	0.45
25:A1:15:LYS:O	25:A1:18:LEU:CB	2.53	0.45
27:A3:39:ARG:HG2	27:A3:69:PHE:CE1	2.48	0.45
28:A4:73:LYS:OXT	28:A4:73:LYS:CG	2.61	0.45
29:A5:49:CYS:HB3	29:A5:50:GLY:H	1.35	0.45
30:A6:32:GLN:OE1	30:A6:35:LEU:HD12	2.17	0.45
33:A9:10:MET:H	33:A9:14:CYS:HB2	1.82	0.45
34:BA:6:G:H4'	34:BA:298:A:O2'	2.16	0.45
34:BA:51:A:N1	34:BA:353:A:N1	2.64	0.45
34:BA:130:A:H5''	34:BA:190(F):G:C2'	2.37	0.45
34:BA:190(D):U:OP2	34:BA:190(D):U:C6	2.70	0.45
34:BA:263:A:C2'	34:BA:264:U:C5'	2.91	0.45
34:BA:494:G:O2'	34:BA:495:U:C6	2.63	0.45
34:BA:549:C:C2	34:BA:550:G:C8	3.03	0.45
34:BA:640:A:N3	43:BK:115:SER:HB2	2.31	0.45
34:BA:814:A:N7	34:BA:816:A:C6	2.84	0.45
34:BA:990:C:H2'	34:BA:991:U:O4'	2.17	0.45
34:BA:1033:G:H2'	34:BA:1034:G:H8	1.81	0.45
34:BA:1050:G:H2'	34:BA:1051:C:C6	2.51	0.45
34:BA:1057:G:C5	34:BA:1204:A:C2	3.05	0.45
34:BA:1118:C:H1'	34:BA:1179:A:N9	2.32	0.45
34:BA:1151:A:H2'	34:BA:1152:A:O5'	2.16	0.45
34:BA:1241:G:H2'	34:BA:1242:C:C6	2.51	0.45
34:BA:1290:G:C2	34:BA:1291:G:C8	3.05	0.45
34:BA:1317:C:C2	49:BQ:16:PHE:CE2	3.04	0.45
34:BA:1319:A:H8	34:BA:1319:A:H3'	1.82	0.45
34:BA:1324:A:H5'	34:BA:361(A):C:O2'	2.17	0.45
34:BA:1389:C:O2'	34:BA:1390:U:H5'	2.16	0.45
34:BA:1503:A:HO2'	34:BA:1504:G:P	2.40	0.45
34:BA:1516:G:N3	34:BA:1518:A:OP2	2.49	0.45
35:BB:41:U:C6	35:BB:41:U:C5'	2.97	0.45
35:BC:18:G:N1	35:BC:58:A:C6	2.84	0.45
35:BC:47:U:C5	35:BC:49:C:C4'	3.00	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:121:LEU:H	37:BE:121:LEU:HG	1.30	0.45
37:BE:187:LEU:HD23	37:BE:201:ILE:CG2	2.23	0.45
38:BF:84:ILE:HA	38:BF:87:LEU:CD1	2.21	0.45
39:BG:41:GLY:C	39:BG:43:HIS:H	2.24	0.45
39:BG:154:ASN:N	39:BG:154:ASN:ND2	2.64	0.45
40:BH:103:GLY:CA	40:BH:107:ARG:NH2	2.79	0.45
40:BH:143:ARG:HG3	40:BH:143:ARG:HH11	1.81	0.45
40:BH:147:ASP:O	40:BH:148:VAL:C	2.59	0.45
41:BI:67:MET:HB2	41:BI:68:PRO:HD2	1.98	0.45
42:BJ:99:LEU:HD23	42:BJ:102:ARG:CD	2.44	0.45
43:BK:32:LYS:HG2	43:BK:33:GLU:H	1.81	0.45
43:BK:40:ALA:HB2	43:BK:45:ILE:CG2	2.45	0.45
44:BL:28:VAL:HG21	44:BL:32:ASP:C	2.42	0.45
44:BL:33:PHE:CE1	44:BL:37:PHE:CE1	3.05	0.45
45:BM:79:ARG:O	45:BM:82:ILE:HG13	2.16	0.45
46:BN:72:ALA:O	46:BN:77:MET:CB	2.63	0.45
46:BN:103:LEU:HD22	46:BN:103:LEU:HA	1.62	0.45
48:BP:66:LEU:C	48:BP:70:LEU:HB2	2.39	0.45
48:BP:109:THR:HG22	48:BP:110:ARG:N	2.32	0.45
50:BR:29:VAL:CG1	50:BR:85:LEU:CD1	2.94	0.45
52:BT:62:SER:CB	52:BT:72:ARG:HG3	2.47	0.45
52:BT:83:ASP:HA	52:BT:86:GLU:HG2	1.98	0.45
52:BT:84:LEU:O	52:BT:85:VAL:C	2.58	0.45
52:BT:96:GLN:OE1	52:BT:97:SER:HB3	2.17	0.45
53:BU:52:PRO:O	53:BU:55:ARG:N	2.50	0.45
53:BU:76:LEU:N	53:BU:76:LEU:CD2	2.79	0.45
54:BV:15:LEU:HD13	54:BV:71:LEU:HD11	1.99	0.45
55:BW:59:ALA:C	55:BW:61:SER:N	2.73	0.45
55:BW:68:LYS:O	55:BW:69:GLY:O	2.34	0.45
1:AB:13:A:N1	1:AB:69:G:H2'	2.31	0.45
1:AB:71:C:O2'	1:AB:72:G:C5'	2.62	0.45
1:AB:81:G:C5	1:AB:82:G:C8	3.04	0.45
1:AB:90:C:H2'	1:AB:91:C:O5'	2.15	0.45
1:AB:117:G:N3	1:AB:117:G:H2'	2.31	0.45
2:AA:139:G:O4'	2:AA:139:G:N3	2.49	0.45
2:AA:152:G:N2	2:AA:176:G:N3	2.64	0.45
2:AA:191:A:C2	2:AA:192:C:C4	3.04	0.45
2:AA:195:A:C2	2:AA:198:C:C4	3.04	0.45
2:AA:249:C:O2'	32:A8:8:LYS:CE	2.64	0.45
2:AA:281:G:C2'	2:AA:282:A:O4'	2.64	0.45
2:AA:324:A:C6	2:AA:339:U:O2	2.70	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:389:G:N3	2:AA:389:G:C2'	2.77	0.45
2:AA:414:C:C5'	2:AA:1863:G:N2	2.80	0.45
2:AA:431:U:H6	2:AA:431:U:C3'	2.18	0.45
2:AA:518:G:C4'	18:AS:18:ARG:NH2	2.77	0.45
2:AA:601:C:C2'	2:AA:601:C:O2	2.64	0.45
2:AA:654:A:N1	2:AA:655:A:H3'	2.32	0.45
2:AA:685:A:C1'	2:AA:688:U:C4	2.99	0.45
2:AA:687:C:C4'	31:A7:4:THR:CG2	2.94	0.45
2:AA:692:C:C2'	2:AA:693:C:H5'	2.47	0.45
2:AA:698:C:C5'	2:AA:698:C:C6	2.90	0.45
2:AA:701:G:C2	2:AA:702:G:C8	3.04	0.45
2:AA:768:G:C2'	2:AA:769:G:H8	2.12	0.45
2:AA:782:A:O4'	2:AA:783:A:N6	2.49	0.45
2:AA:792:G:C4	2:AA:2440:C:C2	3.05	0.45
2:AA:963:U:H1'	2:AA:2250:G:H21	1.80	0.45
2:AA:988:A:C5	23:AX:13:ILE:HG21	2.52	0.45
2:AA:996:A:C2	2:AA:997:G:C5	3.05	0.45
2:AA:996:A:C4	2:AA:997:G:C8	3.05	0.45
2:AA:1000:A:C5	2:AA:1001:A:C2	3.04	0.45
2:AA:1063:G:N1	2:AA:1075:C:C4	2.84	0.45
2:AA:1084:A:O3'	9:AI:34:ALA:CB	2.60	0.45
2:AA:1120:G:C6	2:AA:1121:C:C4	3.04	0.45
2:AA:1181:C:HO2'	2:AA:1182:A:C1'	2.28	0.45
2:AA:1232:G:N3	2:AA:1232:G:H2'	2.31	0.45
2:AA:1235:G:C2'	2:AA:1236:G:O5'	2.65	0.45
2:AA:1360:A:H2'	2:AA:1360:A:N3	2.31	0.45
2:AA:1418:G:H5'	2:AA:1587:A:O2'	2.16	0.45
2:AA:1424:G:N3	2:AA:1424:G:C2'	2.78	0.45
2:AA:1462:C:O2	2:AA:1462:C:C2'	2.61	0.45
2:AA:1466:G:H5''	2:AA:1467:C:OP1	2.17	0.45
2:AA:1498:C:O2	2:AA:1499:C:C2	2.69	0.45
2:AA:1609:A:O2'	2:AA:1616:A:C4'	2.65	0.45
2:AA:1690:A:C5	2:AA:1697:G:N2	2.84	0.45
2:AA:1718:G:C2'	2:AA:1725:G:H8	2.09	0.45
2:AA:1818:U:C5'	4:AD:155:ARG:HG3	2.44	0.45
2:AA:1844:C:O2'	2:AA:1845:G:H5'	2.15	0.45
2:AA:1853:A:C2	2:AA:2087:G:N3	2.84	0.45
2:AA:1861:G:C5'	3:AC:205:LYS:HE2	2.46	0.45
2:AA:1952:A:H2'	2:AA:1953:A:O4'	2.16	0.45
2:AA:2019:A:C2'	2:AA:2020:A:H5''	2.46	0.45
2:AA:2027:G:N3	2:AA:2037:G:C2	2.85	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2049:G:C2	2:AA:2620:C:N3	2.85	0.45
2:AA:2054:A:C6	2:AA:2615:U:O4	2.66	0.45
2:AA:2075:U:H3'	2:AA:2238:G:N2	2.31	0.45
2:AA:2077:A:C4	2:AA:2435:A:C8	3.04	0.45
2:AA:2096:U:HO2'	2:AA:2097:C:H5'	1.81	0.45
2:AA:2137:C:N4	2:AA:2155:G:H1'	2.32	0.45
2:AA:2182:G:C2	2:AA:2183:C:C4	3.05	0.45
2:AA:2255:G:N1	2:AA:2256:G:H1'	2.30	0.45
2:AA:2256:G:OP1	27:A3:5:LYS:HD3	2.16	0.45
2:AA:2263:C:H3'	2:AA:2263:C:C6	2.50	0.45
2:AA:2283:C:C2	2:AA:2284:C:C1'	2.99	0.45
2:AA:2350:C:H2'	2:AA:2351:G:O4'	2.16	0.45
2:AA:2466:C:O2	2:AA:2485:G:C4	2.70	0.45
2:AA:2492:U:C2'	2:AA:2493:U:C5'	2.95	0.45
2:AA:2509:G:C2	2:AA:2510:C:H1'	2.39	0.45
2:AA:2535:G:H5'	2:AA:2536:G:OP2	2.17	0.45
2:AA:2648:C:C4	2:AA:2649:U:O4	2.70	0.45
2:AA:2662:A:C2	2:AA:2663:G:H4'	2.52	0.45
2:AA:2742:C:H5''	33:A9:35:ARG:NH2	2.32	0.45
2:AA:2797:U:H1'	2:AA:2799:A:H8	1.81	0.45
2:AA:2814:C:H2'	2:AA:2815:C:C6	2.52	0.45
2:AA:2838:G:C4	2:AA:2839:G:C8	3.04	0.45
2:AA:2844:G:N3	2:AA:2845:G:C8	2.84	0.45
2:AA:2849:U:H4'	2:AA:2850:A:C5'	2.43	0.45
2:AA:2852:G:O6	2:AA:2866:U:O4	2.33	0.45
2:AA:2873:A:HO2'	2:AA:2874:C:P	2.40	0.45
3:AC:104:LEU:HD22	3:AC:126:LYS:HZ1	1.82	0.45
3:AC:163:PHE:CE1	3:AC:199:HIS:CD2	3.04	0.45
5:AE:211:GLN:N	5:AE:216:ARG:NH2	2.63	0.45
6:AF:68:ALA:C	6:AF:69:HIS:ND1	2.75	0.45
7:AG:19:GLU:HB3	7:AG:135:VAL:HG11	1.98	0.45
7:AG:95:THR:HG22	7:AG:96:SER:H	1.80	0.45
8:AH:102:LEU:HD21	8:AH:114:ILE:HG22	1.98	0.45
8:AH:158:GLY:O	8:AH:159:LYS:HB2	2.16	0.45
9:AJ:103:LYS:HD3	9:AJ:114:ILE:CD1	2.47	0.45
10:AK:43:ASN:O	10:AK:44:LEU:C	2.59	0.45
10:AK:116:GLU:OE1	10:AK:130:PRO:CB	2.65	0.45
10:AK:119:ASP:O	10:AK:121:ILE:HD12	2.17	0.45
11:AL:114:PRO:HB2	11:AL:115:ASP:H	1.67	0.45
12:AM:45:VAL:CA	12:AM:132:LEU:HD13	2.46	0.45
12:AM:76:ASP:C	12:AM:80:LYS:HG2	2.37	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:17:ARG:NE	13:AN:46:ALA:C	2.74	0.45
13:AN:106:LEU:N	13:AN:106:LEU:CD2	2.64	0.45
14:AO:116:HIS:HD2	14:AO:118:LEU:CD2	2.28	0.45
15:AP:49:VAL:HG22	15:AP:120:HIS:CA	2.47	0.45
15:AP:65:ARG:NH2	15:AP:122:PHE:CD2	2.79	0.45
15:AP:65:ARG:C	15:AP:67:ALA:N	2.70	0.45
18:AS:19:LEU:C	29:A5:25:LEU:CD1	2.90	0.45
18:AS:51:LEU:N	18:AS:51:LEU:CD1	2.78	0.45
19:AT:18:MET:SD	19:AT:24:LEU:HA	2.57	0.45
21:AV:15:ASP:O	21:AV:16:GLU:HG2	2.16	0.45
21:AV:112:LEU:HD23	21:AV:113:VAL:N	2.31	0.45
21:AV:123:VAL:CG1	21:AV:160:LEU:HA	2.47	0.45
22:AW:42:ASN:OD1	22:AW:42:ASN:C	2.58	0.45
24:A0:26:LYS:O	24:A0:27:SER:C	2.59	0.45
24:A0:47:PHE:O	24:A0:48:VAL:C	2.60	0.45
24:A0:82:GLU:HB3	24:A0:83:ILE:HD11	1.94	0.45
25:A1:35:ALA:HB3	25:A1:36:PHE:HD1	1.82	0.45
25:A1:39:LEU:O	25:A1:42:ALA:N	2.50	0.45
25:A1:88:ILE:C	25:A1:89:ASP:CG	2.84	0.45
27:A3:25:LYS:HZ1	27:A3:57:HIS:HE1	1.62	0.45
27:A3:65:GLY:C	27:A3:66:LYS:CE	2.90	0.45
28:A4:20:VAL:O	28:A4:21:VAL:O	2.35	0.45
28:A4:48:ARG:HD3	28:A4:49:PHE:CD2	2.51	0.45
30:A6:12:MET:O	30:A6:25:THR:O	2.35	0.45
31:A7:30:ILE:CD1	31:A7:33:ARG:HD2	2.44	0.45
34:BA:109:A:N3	34:BA:109:A:O4'	2.49	0.45
34:BA:129(A):G:C2	34:BA:190(G):G:C4	3.05	0.45
34:BA:227:G:H2'	34:BA:228:A:H8	1.79	0.45
34:BA:238:G:N1	34:BA:239:U:C4	2.85	0.45
34:BA:260:G:C6	34:BA:261:U:N3	2.85	0.45
34:BA:271:C:C2	34:BA:272:C:C6	3.05	0.45
34:BA:410:G:C2	34:BA:429:U:N3	2.85	0.45
34:BA:521:G:OP2	47:BO:54:LYS:NZ	2.35	0.45
34:BA:522:C:H5	34:BA:523:A:H62	1.56	0.45
34:BA:542:G:H2'	34:BA:542:G:N3	2.30	0.45
34:BA:560:U:C5'	34:BA:566:G:N2	2.79	0.45
34:BA:685:G:H2'	34:BA:686:U:H6	1.81	0.45
34:BA:818:G:C3'	34:BA:819:A:H5''	2.32	0.45
34:BA:840:C:C5'	34:BA:841:U:O5'	2.59	0.45
34:BA:881:G:H2'	34:BA:882:C:C6	2.51	0.45
34:BA:895:G:C4	34:BA:896:C:C5	3.05	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:951:G:C2'	34:BA:970:C:O2'	2.65	0.45
34:BA:961:U:O2'	34:BA:962:C:C5'	2.59	0.45
34:BA:976:G:C8	34:BA:361(A):C:N4	2.85	0.45
34:BA:988:G:C2	34:BA:989:C:H1'	2.52	0.45
34:BA:3(A):G:N1	34:BA:1037:C:O2	2.49	0.45
34:BA:1091:U:C4	34:BA:1093:A:OP2	2.69	0.45
34:BA:1128:C:C4	34:BA:1139:G:C6	3.04	0.45
34:BA:1150:U:C1'	34:BA:1280:A:N6	2.79	0.45
34:BA:1215:G:C2	34:BA:1216:G:N7	2.84	0.45
34:BA:1329:A:H5'	48:BP:29:ARG:CZ	2.45	0.45
34:BA:1518:A:O5'	34:BA:1518:A:C8	2.57	0.45
35:BB:53:G:C2	35:BB:54:U:C4	3.04	0.45
35:BB:64:A:C2	35:BB:65:G:C4	3.04	0.45
36:B1:67:U:C3'	36:B1:68:U:H5'	2.46	0.45
37:BE:16:HIS:H	37:BE:210:SER:HB2	1.81	0.45
37:BE:39:ILE:O	37:BE:41:ILE:CD1	2.65	0.45
37:BE:63:MET:O	37:BE:64:ARG:C	2.58	0.45
37:BE:101:MET:HE3	37:BE:152:PHE:HD2	1.81	0.45
38:BF:44:GLU:HG2	38:BF:52:LEU:CD1	2.46	0.45
38:BF:53:ALA:HB2	38:BF:115:LEU:HD11	1.98	0.45
39:BG:19:LEU:N	39:BG:33:MET:HE1	2.32	0.45
39:BG:62:GLN:HB3	39:BG:66:ARG:CZ	2.47	0.45
39:BG:100:ARG:HG2	39:BG:100:ARG:NH1	2.31	0.45
39:BG:171:GLY:C	39:BG:173:TRP:H	2.24	0.45
39:BG:173:TRP:CD1	39:BG:189:PRO:HD3	2.51	0.45
40:BH:146:ALA:O	40:BH:149:GLU:N	2.50	0.45
40:BH:152:ARG:HA	43:BK:64:LYS:NZ	2.31	0.45
41:BI:6:VAL:HG11	41:BI:63:TYR:HB2	1.96	0.45
41:BI:80:ARG:HG3	41:BI:80:ARG:H	1.43	0.45
41:BI:80:ARG:NH1	41:BI:88:VAL:HG12	2.31	0.45
42:BJ:16:LEU:O	42:BJ:17:VAL:CG2	2.63	0.45
42:BJ:29:LYS:HZ3	42:BJ:102:ARG:HH21	1.64	0.45
42:BJ:54:THR:O	42:BJ:54:THR:CG2	2.59	0.45
42:BJ:86:GLN:CB	42:BJ:148:ASN:HD22	2.29	0.45
42:BJ:149:ARG:O	42:BJ:152:ALA:HB2	2.17	0.45
43:BK:24:THR:CG2	43:BK:61:VAL:H	2.28	0.45
43:BK:96:GLY:C	43:BK:97:VAL:HG12	2.40	0.45
47:BO:27:LEU:HD13	47:BO:62:SER:HB3	1.98	0.45
47:BO:127:GLU:CD	47:BO:127:GLU:O	2.60	0.45
48:BP:67:GLU:HG2	48:BP:68:GLY:N	2.32	0.45
48:BP:77:ASN:HD21	48:BP:88:ARG:HH12	1.64	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BP:121:LYS:HD2	48:BP:121:LYS:N	2.27	0.45
49:BQ:57:ARG:HG2	49:BQ:58:LYS:N	2.32	0.45
50:BR:66:LEU:HA	50:BR:66:LEU:HD13	1.49	0.45
50:BR:70:LEU:CG	50:BR:78:TYR:HB2	2.46	0.45
52:BT:11:VAL:O	52:BT:11:VAL:HG23	2.16	0.45
52:BT:31:LEU:C	52:BT:32:TYR:CD2	2.94	0.45
55:BW:89:ARG:HB2	55:BW:104:LEU:HD13	1.99	0.45
56:BX:9:ARG:O	56:BX:11:GLY:N	2.49	0.45
56:BX:22:ARG:O	56:BX:22:ARG:HG2	2.17	0.45
1:AB:21:G:N1	1:AB:62:C:N4	2.28	0.45
2:AA:23:G:O2'	2:AA:24:G:H5'	2.17	0.45
2:AA:123:G:O2'	2:AA:124:G:H5'	2.17	0.45
2:AA:150:C:N4	2:AA:151:C:C4	2.85	0.45
2:AA:205:G:C2'	2:AA:206:U:OP2	2.65	0.45
2:AA:265:A:N6	2:AA:281:G:H5'	2.32	0.45
2:AA:270(D):C:H1'	2:AA:273(A):G:OP1	2.16	0.45
2:AA:271(B):G:C4'	2:AA:271(C):U:H5'	2.43	0.45
2:AA:273(A):G:H1	2:AA:363(E):U:H3	1.62	0.45
2:AA:273(D):C:H2'	2:AA:273(E):U:C5'	2.47	0.45
2:AA:281:G:OP1	2:AA:281:G:C8	2.69	0.45
2:AA:287:C:C2	2:AA:353:G:N1	2.83	0.45
2:AA:445:C:H3'	25:A1:3:ARG:CZ	2.47	0.45
2:AA:541:C:N4	2:AA:552:G:N1	2.43	0.45
2:AA:547:A:N3	2:AA:547:A:H3'	2.31	0.45
2:AA:571:A:C4	2:AA:2030:A:N6	2.84	0.45
2:AA:595:C:O2'	2:AA:596:G:C5'	2.64	0.45
2:AA:693:C:H2'	2:AA:694:U:O5'	2.16	0.45
2:AA:786:C:O2'	2:AA:787:U:O4'	2.35	0.45
2:AA:823:G:N1	2:AA:835:A:C4	2.84	0.45
2:AA:907:U:O2	2:AA:908:C:C6	2.69	0.45
2:AA:969:U:N1	2:AA:970:C:C6	2.85	0.45
2:AA:981:A:H3'	2:AA:982:C:H6	1.82	0.45
2:AA:1058:G:H4'	9:AI:3:ILE:N	2.28	0.45
2:AA:1106:G:O4'	9:AI:27:ASP:CB	2.64	0.45
2:AA:1183:G:O2'	2:AA:1184:G:C8	2.69	0.45
2:AA:1270:C:O2	2:AA:1325:G:C5	2.69	0.45
2:AA:1285:G:O5'	2:AA:1285:G:C8	2.69	0.45
2:AA:1298:C:N4	2:AA:1643:G:C6	2.85	0.45
2:AA:1324:G:N1	2:AA:1331:A:C6	2.84	0.45
2:AA:1438:U:O4'	2:AA:1517:G:OP1	2.34	0.45
2:AA:1492:G:N2	2:AA:1493:C:N4	2.61	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1582:C:C4	2:AA:1583:A:C4	3.05	0.45
2:AA:1656:C:OP2	5:AE:233:ARG:HD3	2.17	0.45
2:AA:1684:C:O2'	2:AA:1685:C:C5'	2.65	0.45
2:AA:1695:G:N3	2:AA:1695:G:C3'	2.74	0.45
2:AA:1971:A:O2'	2:AA:1972:A:OP2	2.34	0.45
2:AA:2148:G:O6	2:AA:2149:G:C6	2.70	0.45
2:AA:2174:C:OP2	3:AC:7:TYR:CE2	2.70	0.45
2:AA:2175:C:OP1	3:AC:219:GLY:O	2.34	0.45
2:AA:2252:G:N2	35:BC:74:C:H42	2.15	0.45
2:AA:2356:C:H4'	27:A3:17:ASN:CB	2.46	0.45
2:AA:2376:A:C8	2:AA:2376:A:OP1	2.69	0.45
2:AA:2447:G:O6	2:AA:2501:C:O2	2.35	0.45
2:AA:2476:A:C8	2:AA:2476:A:C3'	2.99	0.45
2:AA:2511:U:C2'	2:AA:2512:C:H5'	2.47	0.45
2:AA:2537:U:C4	2:AA:2538:C:N4	2.85	0.45
2:AA:2575:C:C2'	2:AA:2575:C:O2	2.62	0.45
2:AA:2586:C:C2	2:AA:2587:A:N7	2.84	0.45
2:AA:2592:G:C2	2:AA:2603:G:N1	2.85	0.45
2:AA:2626:C:O2'	2:AA:2627:G:C5'	2.63	0.45
2:AA:2761:G:H2'	2:AA:2762:G:H5'	1.99	0.45
2:AA:2785:C:H4'	5:AE:99:VAL:CG2	2.46	0.45
2:AA:2857:G:C6	2:AA:2861:G:N1	2.85	0.45
2:AA:2898:U:O2	2:AA:2898:U:C2'	2.64	0.45
3:AC:54:SER:HA	3:AC:57:ASN:HD22	1.80	0.45
3:AC:117:PRO:C	3:AC:118:ASP:CG	2.85	0.45
4:AD:144:GLU:HA	4:AD:152:GLN:HB2	1.97	0.45
5:AE:69:PRO:C	5:AE:70:VAL:HG23	2.42	0.45
5:AE:201:VAL:CG1	5:AE:202:ALA:N	2.79	0.45
5:AE:226:HIS:HB3	5:AE:229:GLN:OE1	2.16	0.45
6:AF:28:SER:CA	6:AF:31:ILE:HG13	2.46	0.45
6:AF:219:ASN:N	6:AF:222:ASP:OD1	2.50	0.45
8:AH:12:ALA:C	8:AH:14:VAL:N	2.75	0.45
8:AH:37:HIS:C	8:AH:40:MET:SD	2.99	0.45
8:AH:147:ILE:CG2	8:AH:148:ARG:N	2.71	0.45
9:AI:19:ALA:HB1	9:AJ:45:ALA:O	2.16	0.45
9:AI:50:GLY:O	9:AI:53:GLN:N	2.50	0.45
9:AI:74:ILE:CD1	9:AI:89:LYS:HG2	2.32	0.45
9:AI:106:VAL:CG1	9:AI:110:GLU:CB	2.95	0.45
9:AJ:69:ASN:HB3	9:AJ:72:GLN:CG	2.47	0.45
10:AK:1:MET:CB	10:AK:22:ALA:HA	2.47	0.45
11:AL:105:ILE:HG23	11:AL:128:ILE:CG2	2.28	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:32:LYS:HE3	21:AV:172:LEU:HD13	1.97	0.45
15:AP:156:ASN:O	15:AP:157:ALA:HB2	2.17	0.45
16:AQ:32:PRO:CB	16:AQ:49:THR:OG1	2.64	0.45
16:AQ:98:GLU:CG	16:AQ:99:GLU:H	2.29	0.45
16:AQ:114:LYS:O	16:AQ:115:VAL:C	2.60	0.45
18:AS:83:LYS:O	18:AS:84:ARG:NH2	2.49	0.45
19:AT:57:THR:O	19:AT:59:ASP:CG	2.60	0.45
20:AU:18:GLU:CB	20:AU:21:LYS:HD3	2.46	0.45
21:AV:6:LYS:N	21:AV:7:PRO:CD	2.79	0.45
21:AV:34:LEU:CD2	21:AV:83:PHE:CZ	3.00	0.45
21:AV:127:PRO:C	21:AV:129:ARG:N	2.73	0.45
23:AX:20:LYS:HD3	23:AX:23:LEU:HD12	1.98	0.45
24:A0:19:ALA:O	24:A0:22:ARG:CB	2.60	0.45
24:A0:36:THR:HB	24:A0:40:LYS:HB3	1.98	0.45
25:A1:74:MET:HE2	25:A1:117:ARG:NH2	2.31	0.45
26:A2:78:VAL:O	26:A2:79:GLN:C	2.60	0.45
28:A4:5:LEU:O	28:A4:56:VAL:HG22	2.17	0.45
28:A4:18:GLY:C	28:A4:19:GLN:NE2	2.75	0.45
28:A4:57:ASP:O	28:A4:58:LYS:C	2.60	0.45
31:A7:28:ARG:C	31:A7:31:LEU:HG	2.41	0.45
34:BA:80:G:H2'	34:BA:81:U:C5'	2.45	0.45
34:BA:115:G:C1'	34:BA:116:A:N7	2.79	0.45
34:BA:261:U:H5	55:BW:79:ARG:CZ	2.28	0.45
34:BA:306:G:C5	34:BA:307:C:C5	3.05	0.45
34:BA:336:C:H2'	34:BA:337:C:H6	1.82	0.45
34:BA:429:U:O2'	34:BA:430:A:H5''	2.17	0.45
34:BA:499:A:HO2'	34:BA:500:G:C1'	2.30	0.45
34:BA:502:G:C2'	34:BA:503:C:H5'	2.46	0.45
34:BA:587:G:C4	34:BA:755:G:C2	3.04	0.45
34:BA:722:A:N6	34:BA:733:A:C2	2.79	0.45
34:BA:754:C:OP2	34:BA:755:G:N7	2.49	0.45
34:BA:761:G:C5'	52:BT:102:GLY:HA3	2.29	0.45
34:BA:889:A:C4'	34:BA:890:G:OP1	2.64	0.45
34:BA:899:C:O5'	34:BA:899:C:H6	1.99	0.45
34:BA:919:A:H2'	34:BA:920:U:H6	1.82	0.45
34:BA:921:U:C2'	34:BA:922:G:H5'	2.46	0.45
34:BA:971:G:C8	34:BA:1365:G:H4'	2.52	0.45
34:BA:980:C:H3'	34:BA:981:U:C6	2.51	0.45
34:BA:981:U:C6	34:BA:981:U:H3'	2.52	0.45
34:BA:1044:A:O2'	34:BA:1045:C:H5'	2.16	0.45
34:BA:1117:G:C2	34:BA:1184:G:C2	3.05	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1228:C:OP2	48:BP:111:LYS:NZ	2.28	0.45
34:BA:1241:G:N1	34:BA:1242:C:C4	2.85	0.45
34:BA:1259:C:C5	34:BA:1260:C:C6	3.04	0.45
34:BA:1262:C:C2	34:BA:1263:C:C5	3.05	0.45
34:BA:1349:A:C5	34:BA:1374:A:C8	3.04	0.45
34:BA:1394:A:O5'	34:BA:1394:A:C8	2.66	0.45
34:BA:1419:G:C6	34:BA:1482:G:N1	2.84	0.45
34:BA:1472:U:C2'	34:BA:1473:A:C5'	2.93	0.45
35:BB:6:U:O4	35:BB:7:U:C5	2.70	0.45
35:BB:26:G:H22	35:BB:27:C:H1'	1.77	0.45
35:BB:49:C:C4	35:BB:66:A:N6	2.85	0.45
35:BB:64:A:N3	35:BB:65:G:C8	2.85	0.45
35:BC:9:A:H62	35:BC:22:G:H8	1.63	0.45
35:BC:52:U:O2	35:BC:62:A:N1	2.50	0.45
37:BE:144:ARG:HD3	37:BE:148:TYR:OH	2.15	0.45
38:BF:47:LEU:N	38:BF:47:LEU:CD2	2.76	0.45
39:BG:16:GLY:O	39:BG:17:VAL:C	2.59	0.45
39:BG:66:ARG:O	39:BG:68:TYR:N	2.50	0.45
39:BG:79:PHE:C	39:BG:79:PHE:CD1	2.92	0.45
39:BG:190:ASP:C	39:BG:194:LEU:HD23	2.41	0.45
41:BI:64:GLN:O	41:BI:65:VAL:HG13	2.16	0.45
41:BI:76:ALA:HA	41:BI:79:LEU:HD12	1.98	0.45
42:BJ:44:TYR:O	42:BJ:46:ALA:N	2.50	0.45
44:BL:38:GLN:C	44:BL:40:LEU:HG	2.35	0.45
44:BL:99:LEU:O	44:BL:100:GLY:O	2.34	0.45
45:BM:19:SER:O	45:BM:23:ILE:HD13	2.17	0.45
45:BM:60:ARG:HH11	45:BM:60:ARG:CB	2.26	0.45
46:BN:18:ARG:HG2	46:BN:18:ARG:NH1	2.29	0.45
46:BN:110:ASP:HA	53:BU:88:LYS:NZ	2.15	0.45
47:BO:56:ALA:HB3	47:BO:100:ILE:HD12	1.97	0.45
47:BO:117:ARG:NH1	47:BO:117:ARG:HB2	2.32	0.45
51:BS:8:ARG:C	51:BS:9:PHE:CD2	2.92	0.45
52:BT:84:LEU:O	52:BT:87:LYS:N	2.50	0.45
52:BT:95:TYR:C	52:BT:97:SER:H	2.25	0.45
55:BW:64:ASP:HA	55:BW:67:ALA:HB2	1.97	0.45
1:AB:43:C:C6	1:AB:43:C:OP2	2.70	0.45
1:AB:58:A:H2'	7:AG:140:ARG:NH1	2.31	0.45
1:AB:83:G:C5'	23:AX:52:HIS:HD2	2.29	0.45
2:AA:41:C:O2'	2:AA:43:G:C5'	2.65	0.45
2:AA:246:C:O2	2:AA:246:C:C2'	2.64	0.45
2:AA:258:G:O5'	2:AA:258:G:C8	2.66	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:297:C:H3'	2:AA:298:G:H8	1.75	0.45
2:AA:311:A:C5'	2:AA:312:G:N7	2.79	0.45
2:AA:315:G:H2'	2:AA:316:C:C1'	2.46	0.45
2:AA:358:U:C3'	2:AA:359:A:C5'	2.92	0.45
2:AA:476:G:O4'	2:AA:505:A:C2	2.64	0.45
2:AA:574:C:C2'	2:AA:575:A:OP2	2.64	0.45
2:AA:611:C:N3	2:AA:617:G:C6	2.85	0.45
2:AA:652:C:H3'	2:AA:653:A:O3'	2.16	0.45
2:AA:680:G:C5	2:AA:798:G:C2	3.05	0.45
2:AA:836:G:O6	2:AA:943:U:O4	2.35	0.45
2:AA:997:G:C2	2:AA:998:C:C5	3.05	0.45
2:AA:1047:G:C6	2:AA:1110:G:N7	2.84	0.45
2:AA:1159:U:C2'	2:AA:1160:G:O5'	2.64	0.45
2:AA:1170:G:N2	2:AA:1180:C:C4	2.85	0.45
2:AA:1179:C:C2'	2:AA:1180:C:C6	3.00	0.45
2:AA:1183:G:C3'	2:AA:1183:G:P	2.99	0.45
2:AA:1297:C:O2'	2:AA:1302:A:N6	2.50	0.45
2:AA:1342:A:C4	2:AA:1345:C:C4	3.05	0.45
2:AA:1353:A:H61	2:AA:1354:A:N6	2.14	0.45
2:AA:1394:U:C4'	2:AA:1603:A:C5'	2.93	0.45
2:AA:1447:G:H1'	2:AA:545(A):A:H1'	1.99	0.45
2:AA:1525:G:O2'	2:AA:1526:G:O5'	2.35	0.45
2:AA:1605:C:C6	2:AA:1606:G:C8	3.03	0.45
2:AA:1614:A:H61	18:AS:88:ARG:H	1.57	0.45
2:AA:1652:A:H62	2:AA:1653:G:H21	1.65	0.45
2:AA:1658:C:P	5:AE:230:GLY:HA2	2.57	0.45
2:AA:1754:C:C4	2:AA:1755:A:C6	3.05	0.45
2:AA:1779:U:H1'	2:AA:1783:A:N6	2.31	0.45
2:AA:1779:U:C1'	2:AA:1783:A:H62	2.29	0.45
2:AA:1794:U:C4'	2:AA:1900:A:C5	2.99	0.45
2:AA:1843:C:H2'	2:AA:1844:C:C5	2.51	0.45
2:AA:1936:A:C4	2:AA:1945:G:N7	2.84	0.45
2:AA:1975:G:C4	2:AA:1976:U:C6	3.05	0.45
2:AA:2021:C:H5	25:A1:25:TRP:CZ2	2.33	0.45
2:AA:2040:C:O2	2:AA:2041:U:N1	2.50	0.45
2:AA:2051:A:O2'	2:AA:2052:G:P	2.75	0.45
2:AA:2113:U:O2'	2:AA:2114:A:OP2	2.27	0.45
2:AA:2124:G:OP1	3:AC:132:GLY:N	2.50	0.45
2:AA:2234:G:H2'	2:AA:2235:G:O4'	2.16	0.45
2:AA:2329:G:N3	2:AA:2330:G:C8	2.85	0.45
2:AA:2393:A:H5'	32:A8:13:ARG:HH21	1.81	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2408:U:O2'	2:AA:2409:G:C5'	2.64	0.45
2:AA:2417:C:C2'	2:AA:2418:A:C5'	2.95	0.45
2:AA:2458:G:C8	2:AA:2490:G:C5	3.04	0.45
2:AA:2478:A:C2	2:AA:2529:G:C4	3.04	0.45
2:AA:2517:C:C2'	2:AA:2518:A:O5'	2.64	0.45
2:AA:2543:G:C6	2:AA:2544:G:C6	3.05	0.45
2:AA:2570:G:H3'	2:AA:2571:C:C6	2.52	0.45
2:AA:2617:C:C2'	2:AA:2618:G:H5'	2.46	0.45
2:AA:2653:U:C2'	2:AA:2654:A:N7	2.78	0.45
2:AA:2677:G:N3	2:AA:2678:C:C6	2.85	0.45
2:AA:2718:G:C2'	2:AA:2719:G:C8	2.93	0.45
2:AA:2721:A:C2'	2:AA:2722:G:C8	2.99	0.45
2:AA:2726:U:H3'	2:AA:2727:G:C8	2.51	0.45
4:AD:73:ILE:CG2	4:AD:96:ALA:HB3	2.47	0.45
4:AD:208:GLY:C	4:AD:210:LYS:N	2.75	0.45
5:AE:222:ARG:NH2	5:AE:234:ARG:CA	2.80	0.45
5:AE:271:ILE:HG23	5:AE:272:GLY:H	1.81	0.45
5:AE:299:SER:O	5:AE:300:VAL:C	2.59	0.45
6:AF:61:PHE:O	6:AF:65:ARG:NE	2.50	0.45
6:AF:142:ASP:H	6:AF:237:GLU:CD	2.25	0.45
7:AG:19:GLU:O	7:AG:20:LYS:HB2	2.16	0.45
7:AG:91:ALA:O	7:AG:92:GLU:OE2	2.34	0.45
8:AH:51:VAL:HG22	8:AH:68:ARG:HG3	1.98	0.45
8:AH:67:THR:O	8:AH:71:LEU:CD1	2.62	0.45
9:AI:23:LYS:O	9:AI:27:ASP:OD1	2.35	0.45
9:AJ:66:PHE:CD2	9:AJ:73:VAL:HB	2.52	0.45
10:AK:76:THR:CG2	10:AK:142:LYS:HE2	2.47	0.45
14:AO:61:ALA:CB	14:AO:107:LYS:CE	2.94	0.45
14:AO:62:ALA:HB3	14:AO:105:TYR:HB2	1.97	0.45
14:AO:65:ASP:HB3	14:AO:109:LEU:CB	2.45	0.45
14:AO:67:ARG:HH11	14:AO:111:ALA:CB	2.24	0.45
15:AP:22:GLY:O	15:AP:23:ILE:CD1	2.65	0.45
15:AP:32:LYS:HE3	21:AV:172:LEU:HD22	1.99	0.45
15:AP:65:ARG:CZ	15:AP:85:ILE:CB	2.84	0.45
15:AP:117:GLY:O	15:AP:118:ALA:CB	2.61	0.45
16:AQ:38:LYS:NZ	16:AQ:114:LYS:HB2	2.32	0.45
18:AS:22:ASP:HA	18:AS:25:ARG:HD2	1.99	0.45
18:AS:84:ARG:HB3	18:AS:96:ILE:HG13	1.97	0.45
20:AU:20:HIS:C	20:AU:22:GLN:N	2.72	0.45
20:AU:51:LEU:HD22	20:AU:51:LEU:C	2.42	0.45
20:AU:81:LYS:NZ	20:AU:84:GLY:N	2.58	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:62:PHE:C	21:AV:85:MET:SD	3.00	0.45
22:AW:45:ARG:HH21	22:AW:49:LEU:HD23	1.78	0.45
23:AX:24:LYS:O	23:AX:27:GLY:HA2	2.17	0.45
24:A0:14:SER:O	24:A0:15:SER:C	2.59	0.45
24:A0:63:ARG:NH2	24:A0:77:ARG:CG	2.71	0.45
24:A0:90:ARG:HH12	24:A0:117:VAL:HG21	1.81	0.45
24:A0:97:VAL:CA	24:A0:114:VAL:HG13	2.42	0.45
25:A1:16:LYS:O	25:A1:17:VAL:C	2.60	0.45
25:A1:44:THR:HG1	26:A2:77:GLY:C	2.21	0.45
25:A1:57:PHE:O	25:A1:60:LEU:HB2	2.17	0.45
26:A2:41:GLY:N	26:A2:54:TYR:CD1	2.85	0.45
26:A2:49:GLU:C	26:A2:53:LYS:HD2	2.40	0.45
27:A3:7:VAL:HG22	35:BC:64:A:OP2	2.17	0.45
27:A3:47:ALA:HB2	27:A3:75:GLY:CA	2.47	0.45
29:A5:18:MET:CA	29:A5:21:SER:HB3	2.42	0.45
30:A6:16:ALA:HB2	30:A6:42:PRO:HD3	1.97	0.45
30:A6:31:THR:O	30:A6:32:GLN:O	2.34	0.45
32:A8:5:LYS:HD2	32:A8:7:HIS:CE1	2.52	0.45
34:BA:12:U:O2	34:BA:22:G:N2	2.41	0.45
34:BA:132:C:C2'	34:BA:133:U:C6	2.99	0.45
34:BA:133:U:O3'	34:BA:134:A:H8	1.99	0.45
34:BA:197:A:N6	34:BA:221:C:H5''	2.28	0.45
34:BA:226:G:N2	34:BA:227:G:C4	2.84	0.45
34:BA:255:G:OP1	52:BT:69:LYS:NZ	2.50	0.45
34:BA:447:G:O2'	34:BA:448:A:O5'	2.28	0.45
34:BA:451:A:C2	34:BA:480:U:C4	3.05	0.45
34:BA:501:C:H3'	34:BA:501:C:C6	2.52	0.45
34:BA:602:A:C6	34:BA:603:U:N3	2.84	0.45
34:BA:668:G:C4	34:BA:669:U:C5	3.05	0.45
34:BA:751:U:OP1	50:BR:18:PHE:CE1	2.69	0.45
34:BA:768:A:C8	34:BA:768:A:C3'	3.00	0.45
34:BA:932:C:H5'	42:BJ:3:ARG:HB3	1.98	0.45
34:BA:934:C:C5	34:BA:1344:C:H3'	2.51	0.45
34:BA:934:C:C4	34:BA:1344:C:C4	3.05	0.45
34:BA:976:G:C5	34:BA:361(A):C:C4	3.05	0.45
34:BA:30(D):A:H3'	34:BA:1031:G:O4'	2.17	0.45
34:BA:1065:U:C2'	34:BA:1066:C:OP2	2.64	0.45
34:BA:1126:U:O2'	34:BA:1127:G:C5'	2.65	0.45
34:BA:1133:G:C4	34:BA:1134:G:C8	3.05	0.45
34:BA:1226:C:C4'	34:BA:1227:A:OP1	2.65	0.45
34:BA:1287:A:H2'	34:BA:1288:A:N7	2.26	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:361(A):C:H2'	34:BA:1362:C:H5''	1.99	0.45
34:BA:1368:G:C5	34:BA:1369:C:C5	3.04	0.45
34:BA:1507:A:N1	34:BA:1528:U:C4	2.83	0.45
35:BB:1:G:N1	35:BB:73:A:C6	2.82	0.45
35:BB:48:C:N4	35:BB:60:C:C2	2.84	0.45
35:BC:15:G:H1	35:BC:21:A:H2	1.64	0.45
35:BC:43:G:N3	35:BC:44:A:C8	2.85	0.45
35:BC:51:G:C2'	35:BC:52:U:O5'	2.65	0.45
35:BC:54:U:O4	35:BC:55:U:N3	2.49	0.45
36:B1:46:A:H5''	36:B1:47:U:H5	1.76	0.45
37:BE:97:TRP:CH2	37:BE:173:ALA:CA	3.00	0.45
37:BE:99:GLY:C	37:BE:101:MET:H	2.25	0.45
37:BE:207:ALA:O	37:BE:210:SER:N	2.50	0.45
38:BF:10:PHE:HE1	38:BF:178:LEU:CD2	2.23	0.45
38:BF:33:LEU:HD11	49:BQ:53:LEU:HA	1.98	0.45
39:BG:13:ARG:HH22	39:BG:36:ARG:HD3	1.82	0.45
39:BG:83:SER:HA	39:BG:89:THR:CB	2.46	0.45
42:BJ:15:ASP:OD1	42:BJ:17:VAL:CB	2.64	0.45
42:BJ:136:LYS:HD2	42:BJ:136:LYS:C	2.42	0.45
43:BK:38:ILE:HD13	43:BK:38:ILE:H	1.82	0.45
43:BK:103:VAL:CG2	43:BK:108:GLY:C	2.89	0.45
44:BL:45:ALA:O	44:BL:78:LYS:HG3	2.16	0.45
44:BL:62:TYR:CA	44:BL:63:ILE:HD12	2.47	0.45
44:BL:124:GLN:O	44:BL:124:GLN:HG3	2.16	0.45
45:BM:51:ARG:N	45:BM:59:SER:HB3	2.31	0.45
46:BN:48:ILE:C	46:BN:50:TYR:N	2.75	0.45
47:BO:27:LEU:CD1	47:BO:64:TYR:CE1	3.00	0.45
47:BO:117:ARG:CB	47:BO:117:ARG:NH1	2.79	0.45
48:BP:8:GLU:C	48:BP:10:PRO:CD	2.90	0.45
48:BP:22:ILE:CG2	48:BP:66:LEU:HD12	2.47	0.45
53:BU:63:GLN:CA	53:BU:66:LEU:HG	2.46	0.45
54:BV:11:VAL:HG21	54:BV:41:VAL:HG13	1.98	0.45
54:BV:66:MET:O	54:BV:74:PHE:HZ	1.99	0.45
1:AB:44:G:C2	1:AB:48:A:H1'	2.50	0.45
2:AA:13:A:N1	2:AA:525:U:C2'	2.66	0.45
2:AA:72:U:H5'	19:AT:2:TRP:CZ2	2.51	0.45
2:AA:262:A:O2'	2:AA:263:C:H5'	2.16	0.45
2:AA:273(B):C:O5'	2:AA:273(B):C:H6	2.00	0.45
2:AA:274:G:P	2:AA:274:G:H21	2.40	0.45
2:AA:283:A:H2	2:AA:360:G:C2	2.35	0.45
2:AA:285:C:C2	2:AA:286:C:N4	2.85	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:300:A:N1	2:AA:334:C:O4'	2.50	0.45
2:AA:303:U:N3	2:AA:304:G:N7	2.64	0.45
2:AA:325:G:H2'	2:AA:326:G:O5'	2.17	0.45
2:AA:449:A:OP1	6:AF:84:VAL:HG12	2.16	0.45
2:AA:511:U:O4	2:AA:512:G:N3	2.49	0.45
2:AA:619:G:O6	2:AA:620:G:N2	2.50	0.45
2:AA:621:A:N6	2:AA:622:G:N3	2.65	0.45
2:AA:715:G:C3'	2:AA:715:G:C8	2.99	0.45
2:AA:737:C:C2	2:AA:759:G:N2	2.85	0.45
2:AA:764:A:H5''	2:AA:765:G:H5'	1.98	0.45
2:AA:825:C:H4'	2:AA:2428:G:N7	2.31	0.45
2:AA:880:G:H2'	2:AA:881:G:O4'	2.16	0.45
2:AA:911:A:N1	15:AP:17:ARG:NH1	2.64	0.45
2:AA:929:G:H8	2:AA:929:G:P	2.39	0.45
2:AA:965:C:C4'	2:AA:2273:A:N3	2.78	0.45
2:AA:1023:U:OP2	2:AA:1025:G:C2	2.69	0.45
2:AA:1080:C:O3'	11:AL:126:LYS:HD3	2.17	0.45
2:AA:1083:U:O2	9:AI:37:VAL:HG13	2.17	0.45
2:AA:1120:G:O2'	2:AA:1121:C:H5'	2.16	0.45
2:AA:1152:C:H4'	25:A1:80:ILE:CD1	2.47	0.45
2:AA:1173:G:N2	2:AA:1175:U:H3'	2.31	0.45
2:AA:1334:G:C2'	2:AA:1335:U:O5'	2.65	0.45
2:AA:1366:A:P	28:A4:3:LYS:NZ	2.90	0.45
2:AA:1406:U:C2	2:AA:1407:C:C5	3.04	0.45
2:AA:1475:G:C4	2:AA:1475:G:C3'	2.97	0.45
2:AA:1489:U:H5''	2:AA:1490:A:OP2	2.16	0.45
2:AA:1508:A:C6	2:AA:1510:A:C2	3.05	0.45
2:AA:1570:A:N3	2:AA:1571:A:C8	2.85	0.45
2:AA:1589:C:O2'	2:AA:1590:U:H5'	2.16	0.45
2:AA:1659:U:HO2'	2:AA:1660:C:H5'	1.80	0.45
2:AA:1742:C:H2'	2:AA:1743:G:N9	2.30	0.45
2:AA:1770:G:C6	2:AA:1771:C:C4	3.05	0.45
2:AA:1782:C:O2	2:AA:2609:U:C6	2.70	0.45
2:AA:1801:G:C6	2:AA:2207:C:H4'	2.50	0.45
2:AA:1826:G:O2'	2:AA:1971:A:O5'	2.35	0.45
2:AA:1858:G:N1	2:AA:1885:A:N7	2.65	0.45
2:AA:1919:A:C2'	2:AA:1920:C:H5'	2.47	0.45
2:AA:2026:C:O2	2:AA:2026:C:C2'	2.65	0.45
2:AA:2118:U:H2'	2:AA:2119:A:C5'	2.47	0.45
2:AA:2256:G:H5'	27:A3:5:LYS:CG	2.34	0.45
2:AA:2356:C:O2'	2:AA:2357:U:H5'	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2367:G:C4	2:AA:2368:C:C5	3.05	0.45
2:AA:2373:G:C6	2:AA:2374:C:N4	2.84	0.45
2:AA:2419:U:P	32:A8:41:ILE:HD12	2.56	0.45
2:AA:2432:A:N6	28:A4:31:ILE:H	2.15	0.45
2:AA:2491:U:H5'	2:AA:2570:G:H4'	1.99	0.45
2:AA:2554:U:C4	2:AA:2555:U:C4	3.05	0.45
2:AA:2602:A:OP1	35:BC:74:C:O3'	2.35	0.45
2:AA:2605:U:H2'	2:AA:2606:C:H5'	1.98	0.45
2:AA:2623:G:C5'	2:AA:2826:A:H1'	2.46	0.45
2:AA:2626:C:O2	2:AA:2627:G:C8	2.69	0.45
2:AA:2670:A:N6	2:AA:2671:A:N6	2.65	0.45
2:AA:2721:A:C2'	2:AA:2722:G:H8	2.29	0.45
2:AA:2758:A:N3	2:AA:2758:A:C2'	2.75	0.45
2:AA:2824:C:C2	2:AA:2825:C:O4'	2.70	0.45
2:AA:2836:U:C2	2:AA:2883:A:C6	3.05	0.45
2:AA:2841:C:C2	2:AA:2842:G:C5	3.05	0.45
3:AC:103:ILE:HB	3:AC:127:LEU:HD13	1.97	0.45
3:AC:126:LYS:O	3:AC:130:ILE:HD13	2.15	0.45
5:AE:102:ASP:HA	5:AE:104:PHE:CZ	2.50	0.45
5:AE:211:GLN:OE1	5:AE:215:LYS:N	2.50	0.45
5:AE:217:TRP:O	5:AE:218:GLY:C	2.60	0.45
6:AF:167:ASP:OD2	6:AF:231:ARG:C	2.60	0.45
6:AF:223:LEU:C	6:AF:225:PRO:CD	2.89	0.45
9:AI:106:VAL:HG12	9:AI:111:ALA:N	2.31	0.45
10:AK:95:SER:O	10:AK:96:LYS:C	2.59	0.45
12:AM:5:GLU:CA	12:AM:109:TYR:CE2	2.75	0.45
12:AM:45:VAL:HG13	12:AM:131:THR:OG1	2.17	0.45
12:AM:53:ILE:HG22	12:AM:135:ILE:HD11	1.93	0.45
13:AN:121:VAL:C	13:AN:122:ILE:CG1	2.89	0.45
14:AO:126:SER:N	14:AO:129:ALA:HB3	2.32	0.45
15:AP:58:HIS:C	15:AP:62:GLU:HG3	2.42	0.45
16:AQ:90:LEU:HD23	16:AQ:93:GLN:HE21	1.82	0.45
19:AT:18:MET:CB	19:AT:24:LEU:HA	2.46	0.45
19:AT:36:GLU:H	19:AT:36:GLU:HG2	1.48	0.45
21:AV:46:GLN:HG3	21:AV:50:GLY:CA	2.47	0.45
21:AV:98:VAL:HG23	21:AV:121:GLN:HE22	1.82	0.45
24:A0:38:VAL:O	24:A0:39:PRO:C	2.58	0.45
24:A0:63:ARG:NH1	24:A0:80:PHE:CD2	2.85	0.45
24:A0:77:ARG:CG	24:A0:77:ARG:NH1	2.59	0.45
25:A1:42:ALA:O	25:A1:46:GLU:CG	2.60	0.45
25:A1:50:ARG:CA	25:A1:53:LYS:HZ2	2.11	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:87:ASN:HB3	25:A1:88:ILE:CD1	2.46	0.45
26:A2:74:TYR:HD1	26:A2:86:HIS:HB2	1.81	0.45
27:A3:33:ALA:HB2	27:A3:65:GLY:CA	2.43	0.45
27:A3:41:ARG:C	27:A3:42:GLY:O	2.59	0.45
28:A4:4:ASP:OD1	28:A4:11:PRO:CG	2.63	0.45
28:A4:40:HIS:CB	28:A4:41:PRO:CD	2.85	0.45
28:A4:57:ASP:CA	28:A4:61:LYS:HE2	2.46	0.45
29:A5:46:CYS:C	29:A5:48:ASN:N	2.74	0.45
30:A6:35:LEU:O	30:A6:36:GLU:CG	2.64	0.45
30:A6:50:PHE:N	30:A6:50:PHE:HD1	2.15	0.45
31:A7:33:ARG:HB3	31:A7:37:LYS:HD2	1.98	0.45
32:A8:16:ILE:HA	32:A8:21:LYS:O	2.17	0.45
34:BA:33:A:C6	34:BA:34:C:C4	3.05	0.45
34:BA:35:G:C2'	34:BA:36:C:H5'	2.47	0.45
34:BA:156:G:H1	34:BA:165:C:H42	1.64	0.45
34:BA:237:C:OP1	52:BT:40:LYS:HD2	2.16	0.45
34:BA:360:A:N1	34:BA:361:G:N3	2.65	0.45
34:BA:422:C:H5'	34:BA:423:G:C4	2.52	0.45
34:BA:579:G:N1	34:BA:763:G:N1	2.64	0.45
34:BA:593:G:C6	34:BA:594:G:C5	3.05	0.45
34:BA:675:A:C2	34:BA:716:A:H2	2.35	0.45
34:BA:676:A:C6	34:BA:677:U:O4	2.70	0.45
34:BA:710:G:C2'	34:BA:711:G:C5'	2.94	0.45
34:BA:731:G:OP1	34:BA:766:A:H1'	2.16	0.45
34:BA:755:G:C2'	34:BA:756:C:H6	2.30	0.45
34:BA:836:G:P	53:BU:61:LYS:NZ	2.90	0.45
34:BA:926:G:C2	34:BA:1505:G:C4	3.05	0.45
34:BA:947:G:O3'	48:BP:109:THR:CB	2.64	0.45
34:BA:953:G:C2'	34:BA:954:G:H5'	2.46	0.45
34:BA:1007:C:O2	34:BA:1008:C:C6	2.70	0.45
34:BA:30(D):A:H2'	34:BA:1031:G:O4'	2.17	0.45
34:BA:1076:C:C4	34:BA:1082:G:C2	3.05	0.45
34:BA:1104:G:C2'	34:BA:1105:A:C5'	2.95	0.45
34:BA:1110:A:N7	34:BA:1111:A:N7	2.65	0.45
34:BA:1149:C:O5'	34:BA:1149:C:H6	2.00	0.45
34:BA:1188:A:H2'	34:BA:1189:C:O4'	2.17	0.45
34:BA:1237:C:O4'	34:BA:1334:G:N2	2.49	0.45
34:BA:1253:G:N2	34:BA:1254:C:H1'	2.32	0.45
34:BA:1298:C:H1'	34:BA:1299:A:N1	2.32	0.45
34:BA:1346:A:C2	42:BJ:10:ARG:HD3	2.51	0.45
34:BA:1465:C:O2	34:BA:1465:C:C2'	2.63	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1499:A:C6	34:BA:1500:A:N7	2.85	0.45
34:BA:1529:G:C4'	34:BA:1530:G:OP2	2.65	0.45
34:BA:1532:U:O2'	34:BA:1533:C:C5	2.68	0.45
34:BA:1534:A:N3	34:BA:1534:A:H5'	2.31	0.45
35:BC:14:A:C2	35:BC:22:G:C2	3.05	0.45
35:BC:55:U:H3	35:BC:58:A:P	2.33	0.45
35:BC:75:C:C3'	35:BC:76:A:O3'	2.64	0.45
37:BE:14:GLY:CA	37:BE:209:ARG:CZ	2.91	0.45
37:BE:19:HIS:NE2	37:BE:206:ASP:HB2	2.31	0.45
37:BE:73:THR:HB	37:BE:95:GLN:C	2.42	0.45
37:BE:131:PRO:C	37:BE:132:LYS:HE2	2.41	0.45
37:BE:131:PRO:O	37:BE:135:GLN:NE2	2.50	0.45
37:BE:171:ALA:O	37:BE:174:VAL:CB	2.65	0.45
38:BF:13:GLY:C	38:BF:14:ILE:CG1	2.88	0.45
38:BF:88:ARG:CD	38:BF:101:LEU:HB2	2.46	0.45
39:BG:18:LYS:HE3	39:BG:33:MET:HG3	1.98	0.45
39:BG:91:SER:O	39:BG:92:VAL:C	2.60	0.45
40:BH:47:LYS:N	40:BH:47:LYS:CD	2.62	0.45
40:BH:107:ARG:NH1	40:BH:107:ARG:CB	2.80	0.45
40:BH:117:ASP:O	40:BH:118:ILE:HG12	2.17	0.45
42:BJ:48:LYS:O	42:BJ:51:GLN:HB2	2.17	0.45
43:BK:70:GLN:HA	43:BK:70:GLN:NE2	2.31	0.45
43:BK:83:ILE:HG12	43:BK:84:ARG:N	2.32	0.45
43:BK:84:ARG:C	43:BK:135:CYS:SG	3.00	0.45
44:BL:23:ASN:C	44:BL:57:GLY:C	2.85	0.45
45:BM:12:ASP:C	45:BM:14:LYS:N	2.75	0.45
45:BM:29:ARG:O	45:BM:30:SER:HB3	2.17	0.45
46:BN:102:GLY:O	46:BN:105:VAL:CG2	2.64	0.45
48:BP:33:ALA:HA	48:BP:59:TYR:HE2	1.82	0.45
48:BP:81:LEU:HD13	48:BP:81:LEU:N	2.17	0.45
48:BP:91:ARG:O	48:BP:96:LEU:CD2	2.65	0.45
50:BR:49:ASP:OD1	50:BR:52:SER:CB	2.65	0.45
50:BR:55:GLY:O	50:BR:58:MET:HG3	2.17	0.45
50:BR:62:GLN:O	50:BR:66:LEU:CD2	2.58	0.45
52:BT:52:LYS:O	52:BT:53:LEU:O	2.35	0.45
54:BV:11:VAL:HA	54:BV:38:SER:CB	2.47	0.45
54:BV:22:LEU:CD2	54:BV:25:LYS:HD3	2.42	0.45
55:BW:13:LEU:O	55:BW:16:HIS:HB2	2.16	0.45
1:AB:59:A:C4'	7:AG:144:ARG:NE	2.80	0.45
1:AB:83:G:C2	1:AB:84:C:C5	3.04	0.45
1:AB:100:G:N2	2:AA:863:A:H4'	2.32	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:14:A:C2	2:AA:2625:G:O2'	2.70	0.45
2:AA:14:A:H2'	2:AA:15:G:O5'	2.16	0.45
2:AA:59:U:C2'	2:AA:60:G:H4'	2.47	0.45
2:AA:77:C:C2	2:AA:78:A:C8	3.05	0.45
2:AA:108:U:HO2'	2:AA:109:G:P	2.39	0.45
2:AA:182:A:O2'	2:AA:183:C:O5'	2.35	0.45
2:AA:239:U:C1'	2:AA:259:G:H22	2.28	0.45
2:AA:270:A:C6	2:AA:370:G:C4	3.05	0.45
2:AA:270(E):G:H8	2:AA:270(E):G:OP2	2.00	0.45
2:AA:329:G:C6	2:AA:477:A:C2	3.05	0.45
2:AA:413:C:N4	2:AA:2410:G:C6	2.85	0.45
2:AA:475:U:C6	2:AA:509:C:C4	3.05	0.45
2:AA:492:A:C2'	2:AA:493:G:H5'	2.46	0.45
2:AA:515:A:H2'	2:AA:516:C:O4'	2.17	0.45
2:AA:562:U:O2'	2:AA:563:G:C5'	2.44	0.45
2:AA:569:U:OP1	2:AA:945:A:C6	2.69	0.45
2:AA:593:G:H1'	32:A8:3:LYS:HZ1	1.78	0.45
2:AA:593:G:H2'	2:AA:594:U:O4'	2.17	0.45
2:AA:685:A:N3	2:AA:688:U:N3	2.65	0.45
2:AA:699:A:N3	2:AA:1633:G:O2'	2.44	0.45
2:AA:704:G:HO2'	2:AA:705:A:P	2.40	0.45
2:AA:784:A:H2'	2:AA:785:G:H5''	1.93	0.45
2:AA:819:A:N3	2:AA:820:A:C8	2.85	0.45
2:AA:860:U:C5	2:AA:861:A:O4'	2.69	0.45
2:AA:1011:G:C6	2:AA:1150:C:N3	2.85	0.45
2:AA:1011:G:OP2	25:A1:75:ASN:OD1	2.35	0.45
2:AA:1053:C:C2	2:AA:1106:G:N2	2.77	0.45
2:AA:1063:G:N7	2:AA:1070:A:OP1	2.50	0.45
2:AA:142(A):A:N6	2:AA:1143:A:C5	2.85	0.45
2:AA:142(A):A:C2'	2:AA:1143:A:H5'	2.46	0.45
2:AA:1233:C:C2'	2:AA:1234:U:H5'	2.47	0.45
2:AA:1246:A:C6	2:AA:1247:A:C2	3.05	0.45
2:AA:1269:A:H2'	2:AA:1325:G:O6	2.17	0.45
2:AA:1270:C:C5'	2:AA:1271:G:H5''	2.43	0.45
2:AA:1293:C:C2	2:AA:1294:U:C6	3.05	0.45
2:AA:1295:C:C2	2:AA:1296:G:C8	3.05	0.45
2:AA:1379:A:OP1	2:AA:1379:A:C6	2.70	0.45
2:AA:1515:C:O2'	2:AA:1516:U:OP1	2.23	0.45
2:AA:1538:G:C5	2:AA:1539:G:C4	3.05	0.45
2:AA:1651:G:N2	2:AA:2006:C:C2	2.73	0.45
2:AA:1652:A:N6	2:AA:1653:G:H21	2.14	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1663:C:C4	2:AA:1992:G:C8	3.05	0.45
2:AA:1695:G:C2'	2:AA:1696:G:O5'	2.62	0.45
2:AA:1707:G:O4'	2:AA:1756:G:C2'	2.64	0.45
2:AA:1778:U:H2'	2:AA:1784:A:C2	2.51	0.45
2:AA:1780:A:OP2	2:AA:1782:C:O5'	2.35	0.45
2:AA:1802:A:C5'	2:AA:1803:A:OP2	2.64	0.45
2:AA:1805:U:C5'	4:AD:235:PRO:CB	2.94	0.45
2:AA:1840:G:H2'	2:AA:1841:U:C5'	2.47	0.45
2:AA:1853:A:C4	2:AA:1854:A:C8	3.05	0.45
2:AA:1859:A:H3'	2:AA:1859:A:H8	1.81	0.45
2:AA:1893:C:C6	2:AA:1894:C:C5	3.05	0.45
2:AA:1904:G:C2'	2:AA:1905:C:C5'	2.95	0.45
2:AA:2000:G:C2	2:AA:2001:A:C8	3.05	0.45
2:AA:2009:G:H1'	24:A0:106:GLY:O	2.17	0.45
2:AA:2083:G:C4	2:AA:2084:C:C5	3.05	0.45
2:AA:2094:G:N2	2:AA:2196:C:C2	2.84	0.45
2:AA:2136:C:O5'	2:AA:2136:C:C6	2.66	0.45
2:AA:2143:C:H42	2:AA:2147:G:H1	1.65	0.45
2:AA:2177:C:H5''	3:AC:46:LYS:CD	2.45	0.45
2:AA:2241:A:O2'	2:AA:2242:G:C5'	2.65	0.45
2:AA:2262:U:H2'	2:AA:2263:C:H5'	1.96	0.45
2:AA:2270:G:C6	2:AA:2271:G:C2	3.04	0.45
2:AA:2310:A:C5	7:AG:55:LYS:HD3	2.52	0.45
2:AA:2328:A:C5	2:AA:2329:G:N7	2.85	0.45
2:AA:2348:U:OP2	32:A8:42:ARG:NH1	2.44	0.45
2:AA:2352:A:N3	2:AA:2353:G:O4'	2.50	0.45
2:AA:2380:C:C2'	2:AA:2381:C:C5'	2.91	0.45
2:AA:2432:A:H62	28:A4:31:ILE:H	1.64	0.45
2:AA:2436:G:O2'	2:AA:2598:A:C2	2.60	0.45
2:AA:2450:A:C2	2:AA:2451:A:C4	3.05	0.45
2:AA:2468:G:O6	2:AA:2481:G:C6	2.70	0.45
2:AA:2548:G:N1	2:AA:2560:C:N4	2.57	0.45
2:AA:2550:G:C2	2:AA:2559:C:C2	3.05	0.45
2:AA:2571:C:H2'	2:AA:2571:C:O2	2.16	0.45
2:AA:2592:G:C2	2:AA:2603:G:C6	3.04	0.45
2:AA:2661:G:H2'	2:AA:2662:A:N7	2.30	0.45
2:AA:2694:G:C5	2:AA:2695:C:C5	3.05	0.45
2:AA:2699:C:O2	2:AA:2699:C:C2'	2.65	0.45
2:AA:2767:C:C2	2:AA:2768:C:C5	3.04	0.45
2:AA:2816:C:H2'	2:AA:2817:G:C5'	2.46	0.45
2:AA:2870:C:H2'	2:AA:2871:C:O5'	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2873:A:H3'	2:AA:2874:C:C5	2.52	0.45
2:AA:2877:G:H2'	2:AA:2878:U:C6	2.52	0.45
2:AA:2881:C:P	24:A0:90:ARG:NH1	2.90	0.45
3:AC:115:ALA:HB3	3:AC:138:PRO:CB	2.46	0.45
3:AC:198:ALA:O	3:AC:200:LYS:N	2.50	0.45
4:AD:65:ASP:HA	4:AD:67:LYS:HZ3	1.82	0.45
4:AD:107:LYS:CA	4:AD:194:VAL:O	2.63	0.45
4:AD:134:ILE:HA	4:AD:135:PRO:HD2	1.85	0.45
4:AD:143:ILE:HG12	4:AD:153:LEU:HB3	1.99	0.45
4:AD:157:ALA:O	4:AD:158:GLY:C	2.60	0.45
4:AD:174:ARG:NH2	4:AD:180:VAL:HG11	2.32	0.45
5:AE:197:GLU:O	5:AE:267:ARG:HA	2.16	0.45
5:AE:243:PRO:O	5:AE:244:SER:CB	2.64	0.45
6:AF:196:THR:HG22	6:AF:197:SER:N	2.28	0.45
7:AG:56:ARG:HH22	35:BC:19:G:N2	2.15	0.45
9:AI:111:ALA:HB1	9:AI:115:LYS:HE3	1.98	0.45
10:AK:88:ARG:HG2	10:AK:122:ARG:C	2.42	0.45
12:AM:66:ASP:C	12:AM:68:GLY:H	2.24	0.45
13:AN:1:MET:H1	13:AN:32:TYR:HB3	1.72	0.45
13:AN:10:VAL:HG12	13:AN:12:ASP:OD1	2.16	0.45
13:AN:45:ASP:CA	13:AN:54:LYS:HE2	2.47	0.45
13:AN:120:GLU:CG	13:AN:121:VAL:H	2.28	0.45
15:AP:41:THR:HG23	15:AP:43:PRO:HD2	1.98	0.45
15:AP:61:LEU:H	15:AP:61:LEU:CD2	2.09	0.45
15:AP:97:ASP:O	15:AP:97:ASP:CG	2.60	0.45
15:AP:139:ALA:O	15:AP:143:VAL:HG13	2.16	0.45
18:AS:51:LEU:O	18:AS:54:ALA:HB3	2.17	0.45
19:AT:3:ASP:O	22:AW:24:LYS:HD2	2.16	0.45
21:AV:92:VAL:O	21:AV:123:VAL:O	2.34	0.45
22:AW:22:ASP:O	22:AW:23:LEU:C	2.59	0.45
25:A1:8:ILE:O	25:A1:11:ARG:CG	2.59	0.45
25:A1:81:ASN:O	25:A1:82:GLY:C	2.57	0.45
26:A2:90:PHE:O	26:A2:91:THR:CG2	2.65	0.45
32:A8:38:GLY:HA2	32:A8:41:ILE:HG13	1.98	0.45
33:A9:11:CYS:CB	33:A9:32:HIS:CE1	2.78	0.45
34:BA:8:A:N6	39:BG:209:ARG:CA	2.80	0.45
34:BA:40:C:C2'	34:BA:41:G:O5'	2.65	0.45
34:BA:134:A:C6	34:BA:135:C:N4	2.85	0.45
34:BA:183:G:N2	34:BA:223:U:H4'	2.31	0.45
34:BA:190(F):G:OP1	34:BA:190(F):G:H8	1.97	0.45
34:BA:237:C:H2'	34:BA:238:G:C8	2.50	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:321:A:N3	34:BA:333:G:N2	2.65	0.45
34:BA:359:U:C5	34:BA:360:A:N7	2.85	0.45
34:BA:404:U:OP1	39:BG:118:ARG:CZ	2.64	0.45
34:BA:448:A:O2'	34:BA:449:C:C5'	2.65	0.45
34:BA:563:A:C2	34:BA:567:G:C4	3.04	0.45
34:BA:676:A:O2'	34:BA:677:U:C5'	2.65	0.45
34:BA:763:G:C4	34:BA:764:C:C5	3.05	0.45
34:BA:833:U:HO2'	34:BA:834:C:H6	1.65	0.45
34:BA:958:A:H5'	54:BV:55:LYS:NZ	2.31	0.45
34:BA:974:A:OP2	49:BQ:31:ARG:HG2	2.17	0.45
34:BA:1007:C:N4	34:BA:1022:G:H1	2.11	0.45
34:BA:1015:A:H2'	34:BA:1016:A:O5'	2.17	0.45
34:BA:30(A):G:H21	34:BA:30(C):G:H3'	1.82	0.45
34:BA:1033:G:C2	34:BA:1034:G:C8	3.05	0.45
34:BA:1308:U:N3	34:BA:1309:G:N7	2.65	0.45
34:BA:1349:A:H2'	34:BA:1350:A:O4'	2.17	0.45
34:BA:1402:C:H2'	34:BA:1403:C:O5'	2.17	0.45
34:BA:1428:A:C6	34:BA:1473:A:N6	2.85	0.45
34:BA:1459:C:P	55:BW:27:LYS:NZ	2.89	0.45
34:BA:1533:C:N3	34:BA:1534:A:O2'	2.50	0.45
35:BB:74:C:OP1	35:BB:74:C:C4'	2.60	0.45
35:BC:16:U:P	35:BC:60:C:O2'	2.75	0.45
35:BC:18:G:C4	35:BC:58:A:C2	3.05	0.45
35:BC:29:A:H61	35:BC:41:U:H3	1.64	0.45
35:BC:75:C:O5'	35:BC:76:A:O5'	2.35	0.45
36:B1:37:C:C4	36:B1:38:C:C4	3.05	0.45
36:B1:47:U:H2'	36:B1:48:A:O5'	2.17	0.45
37:BE:32:ILE:HD11	37:BE:40:HIS:HB3	1.99	0.45
37:BE:145:LEU:CD1	37:BE:149:LEU:CD1	2.95	0.45
37:BE:213:LEU:HD23	37:BE:213:LEU:O	2.17	0.45
38:BF:107:GLN:H	38:BF:107:GLN:NE2	2.15	0.45
38:BF:186:PHE:CA	38:BF:198:VAL:O	2.64	0.45
39:BG:56:VAL:CG1	39:BG:57:ARG:N	2.53	0.45
39:BG:128:VAL:HG13	39:BG:129:ASN:H	1.82	0.45
40:BH:79:GLU:HB3	40:BH:91:LEU:O	2.16	0.45
40:BH:94:ALA:HB1	40:BH:98:THR:CG2	2.32	0.45
40:BH:102:ALA:HB2	40:BH:120:THR:HG22	1.98	0.45
41:BI:9:VAL:HG13	41:BI:60:PHE:CA	2.43	0.45
42:BJ:9:VAL:O	42:BJ:10:ARG:O	2.35	0.45
42:BJ:14:PRO:O	42:BJ:15:ASP:C	2.60	0.45
43:BK:26:VAL:HG13	43:BK:27:PRO:HD2	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BK:44:PHE:HE2	43:BK:109:ILE:HG21	1.75	0.45
43:BK:134:ILE:HG22	43:BK:135:CYS:CB	2.47	0.45
44:BL:30:GLY:O	44:BL:31:GLN:CB	2.65	0.45
46:BN:123:LYS:O	46:BN:125:PHE:N	2.50	0.45
47:BO:45:PRO:HD2	47:BO:51:ALA:H	1.79	0.45
47:BO:90:VAL:HB	47:BO:96:VAL:HB	1.99	0.45
47:BO:113:ARG:C	47:BO:114:LYS:CG	2.79	0.45
50:BR:6:GLU:H	50:BR:6:GLU:CD	2.25	0.45
50:BR:29:VAL:HG21	50:BR:81:LEU:CD1	2.44	0.45
52:BT:43:LEU:HD13	52:BT:69:LYS:HB2	1.99	0.45
52:BT:96:GLN:NE2	52:BT:97:SER:HA	2.31	0.45
53:BU:53:ARG:HA	53:BU:56:THR:OG1	2.16	0.45
54:BV:32:LYS:HB2	54:BV:57:HIS:NE2	2.31	0.45
1:AB:44:G:H8	1:AB:44:G:P	2.39	0.45
1:AB:61:G:H2'	1:AB:62:C:C5	2.52	0.45
2:AA:68:G:C2'	2:AA:69:C:C6	2.77	0.45
2:AA:106:C:O2'	2:AA:293:U:O2'	2.33	0.45
2:AA:195:A:H4'	2:AA:251:A:C4'	2.47	0.45
2:AA:247:G:H4'	2:AA:386:G:C2	2.48	0.45
2:AA:270(H):C:H2'	2:AA:270(I):G:H8	1.82	0.45
2:AA:273(E):U:C4	2:AA:363(A):A:N1	2.85	0.45
2:AA:324:A:N1	2:AA:325:G:C4	2.85	0.45
2:AA:460:A:N7	2:AA:461:C:C5	2.85	0.45
2:AA:541:C:O2'	2:AA:542:C:C5'	2.64	0.45
2:AA:570:G:H22	2:AA:2498:C:H4'	1.82	0.45
2:AA:585:G:C2'	2:AA:586:A:N7	2.80	0.45
2:AA:610:C:N1	2:AA:611:C:H5	2.15	0.45
2:AA:715:G:H3'	2:AA:715:G:H8	1.82	0.45
2:AA:789:A:HO2'	2:AA:1781:C:H42	1.64	0.45
2:AA:819:A:H2	2:AA:943:U:H1'	1.82	0.45
2:AA:832:G:O2'	2:AA:833:U:C5'	2.65	0.45
2:AA:946:G:O2'	2:AA:947:G:O4'	2.35	0.45
2:AA:969:U:C5'	23:AX:14:GLY:O	2.65	0.45
2:AA:1049:C:H42	2:AA:1050:A:H62	1.64	0.45
2:AA:1281:G:C5	2:AA:1282:U:C5	3.05	0.45
2:AA:1358:G:C2'	2:AA:1371:G:N2	2.78	0.45
2:AA:1394:U:O3'	2:AA:1603:A:C5'	2.65	0.45
2:AA:1395:A:N1	2:AA:1398:C:C2	2.85	0.45
2:AA:1408:C:H2'	2:AA:1409:C:H6	1.82	0.45
2:AA:1478:G:N1	2:AA:1515:C:N4	2.65	0.45
2:AA:1510:A:C8	2:AA:1511:A:N6	2.85	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1748:G:C2	2:AA:1749:A:C5	3.05	0.45
2:AA:1750:G:C4	2:AA:1751:C:C5	3.05	0.45
2:AA:1782:C:C5	2:AA:2587:A:N6	2.85	0.45
2:AA:1887:C:O2'	2:AA:1888:G:C5'	2.61	0.45
2:AA:1900:A:C2	2:AA:1970:A:N6	2.84	0.45
2:AA:1928:A:H3'	2:AA:1929:G:C5'	2.47	0.45
2:AA:1937:A:C5	2:AA:1939:U:C4	3.04	0.45
2:AA:2012:G:OP1	18:AS:98:LYS:HD2	2.17	0.45
2:AA:2027:G:C1'	2:AA:2037:G:H22	2.30	0.45
2:AA:2139:C:N3	2:AA:2152:G:C6	2.82	0.45
2:AA:2216:G:H2'	2:AA:2217:G:O4'	2.17	0.45
2:AA:2268:A:OP1	2:AA:2268:A:C4'	2.63	0.45
2:AA:2278:A:H1'	15:AP:19:TYR:CD2	2.52	0.45
2:AA:2279:G:C4	2:AA:2280:G:C8	3.05	0.45
2:AA:2306:C:N4	7:AG:53:LYS:HZ2	2.15	0.45
2:AA:2386:C:C4'	27:A3:39:ARG:HH21	2.28	0.45
2:AA:2515:C:N4	2:AA:2569:G:C6	2.77	0.45
2:AA:2520:C:C6	2:AA:2567:G:C1'	3.00	0.45
2:AA:2558:C:C2	2:AA:2559:C:C6	3.05	0.45
2:AA:2590:A:C5	2:AA:2591:C:C5	3.04	0.45
2:AA:2623:G:C4'	2:AA:2826:A:H1'	2.41	0.45
2:AA:2655:G:H2'	2:AA:2656:U:OP2	2.17	0.45
2:AA:2727:G:C4'	13:AN:70:ARG:CZ	2.89	0.45
2:AA:2731:G:C2	2:AA:2732:G:C2	3.05	0.45
2:AA:2737:G:N1	2:AA:2768:C:C4	2.85	0.45
2:AA:2816:C:C2	2:AA:2817:G:C8	3.05	0.45
2:AA:2837:G:C6	2:AA:2882:A:N1	2.84	0.45
2:AA:2839:G:C6	2:AA:2840:C:N3	2.85	0.45
3:AC:5:LYS:HZ1	3:AC:8:ARG:CB	2.19	0.45
3:AC:128:GLY:CA	3:AC:137:LEU:HD21	2.43	0.45
3:AC:137:LEU:HG	3:AC:164:ARG:NH2	2.32	0.45
3:AC:225:ASN:OD1	3:AC:227:HIS:HB2	2.17	0.45
4:AD:202:LYS:O	4:AD:204:PHE:HE1	2.00	0.45
4:AD:213:LYS:CA	4:AD:215:LYS:H	2.19	0.45
8:AH:10:ILE:HD12	8:AH:49:ILE:HG12	1.97	0.45
8:AH:40:MET:HE2	8:AH:41:THR:N	2.32	0.45
9:AI:26:GLU:C	9:AI:28:LYS:H	2.25	0.45
9:AJ:38:ALA:HA	9:AJ:41:ALA:CB	2.46	0.45
10:AK:69:LYS:HG2	10:AK:70:GLU:H	1.76	0.45
11:AL:32:GLY:O	11:AL:60:VAL:HG21	2.17	0.45
12:AM:4:ALA:CA	12:AM:109:TYR:OH	2.65	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:61:VAL:CG2	12:AM:139:LEU:CB	2.64	0.45
12:AM:98:PHE:HD1	12:AM:98:PHE:H	1.63	0.45
14:AO:56:LYS:O	14:AO:57:VAL:CB	2.65	0.45
14:AO:120:LEU:CD1	14:AO:122:ALA:HB2	2.46	0.45
15:AP:34:GLY:CA	15:AP:83:PHE:HD1	2.30	0.45
15:AP:49:VAL:HG22	15:AP:121:ASP:H	1.80	0.45
15:AP:66:ASN:O	15:AP:70:ARG:NE	2.50	0.45
16:AQ:57:THR:O	16:AQ:58:LEU:HB3	2.16	0.45
16:AQ:60:SER:HB2	16:AQ:88:ALA:HB1	1.99	0.45
16:AQ:67:ALA:O	16:AQ:69:TYR:CD1	2.71	0.45
19:AT:28:VAL:HG23	19:AT:28:VAL:O	2.17	0.45
20:AU:46:ASP:CG	20:AU:47:THR:N	2.75	0.45
20:AU:46:ASP:CA	20:AU:102:ASP:OD1	2.62	0.45
20:AU:92:ASP:O	20:AU:92:ASP:CG	2.60	0.45
21:AV:16:GLU:CA	21:AV:36:ARG:HH12	2.30	0.45
21:AV:66:VAL:O	21:AV:67:LYS:NZ	2.50	0.45
21:AV:104:SER:CB	21:AV:108:VAL:HB	2.38	0.45
24:A0:18:LEU:CD1	24:A0:22:ARG:CZ	2.80	0.45
24:A0:38:VAL:CG1	24:A0:39:PRO:HD3	2.47	0.45
24:A0:87:TYR:N	24:A0:87:TYR:HD2	2.14	0.45
24:A0:105:ARG:N	24:A0:105:ARG:NH2	2.65	0.45
25:A1:6:THR:O	25:A1:9:VAL:CG2	2.64	0.45
25:A1:28:ARG:HH11	25:A1:28:ARG:CG	2.30	0.45
25:A1:46:GLU:O	25:A1:49:ASP:HB2	2.17	0.45
26:A2:29:ALA:O	26:A2:31:ASP:N	2.49	0.45
26:A2:80:TYR:C	26:A2:82:ARG:N	2.75	0.45
27:A3:14:ARG:HH11	27:A3:14:ARG:CG	2.30	0.45
32:A8:28:GLY:O	32:A8:29:LYS:CG	2.55	0.45
33:A9:11:CYS:H	33:A9:32:HIS:CD2	2.34	0.45
33:A9:29:ASN:HB3	33:A9:31:LYS:HB2	1.99	0.45
34:BA:15:G:C5'	40:BH:24:ARG:HH22	2.29	0.45
34:BA:51:A:H4'	34:BA:52:G:OP2	2.16	0.45
34:BA:120:A:C4	34:BA:122:G:C5	3.05	0.45
34:BA:130:A:C2	34:BA:264:U:C6	3.05	0.45
34:BA:150:C:O5'	34:BA:150:C:H6	1.99	0.45
34:BA:150:C:O2'	34:BA:151:A:O4'	2.30	0.45
34:BA:190(C):C:H1'	34:BA:190(G):G:N2	2.32	0.45
34:BA:292:G:C4	34:BA:309:G:N2	2.85	0.45
34:BA:321:A:C6	34:BA:322:C:C4	3.05	0.45
34:BA:378:G:C2	34:BA:385:C:N3	2.75	0.45
34:BA:382:A:O2'	34:BA:383:A:C5'	2.65	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:448:A:O2'	34:BA:449:C:O4'	2.24	0.45
34:BA:594:G:O2'	34:BA:595:G:H5'	2.16	0.45
34:BA:608:A:C2	34:BA:609:A:O4'	2.70	0.45
34:BA:626:U:H5''	51:BS:38:TYR:CG	2.52	0.45
34:BA:716:A:C2'	34:BA:717:C:C5'	2.95	0.45
34:BA:760:G:H1	52:BT:105:ALA:CB	2.12	0.45
34:BA:791:G:N2	34:BA:1497:G:C5'	2.80	0.45
34:BA:1041:A:C2'	34:BA:1042:G:O5'	2.65	0.45
34:BA:1103:C:O2'	37:BE:111:ARG:HG3	2.16	0.45
34:BA:1222:G:C2	34:BA:1223:C:C2	3.05	0.45
34:BA:1223:C:OP1	34:BA:1224:G:H3'	2.17	0.45
34:BA:1286:A:H5'	56:BX:25:LYS:CG	2.44	0.45
34:BA:1291:G:P	42:BJ:37:ASN:ND2	2.90	0.45
34:BA:1363:A:OP1	34:BA:1363:A:C8	2.65	0.45
34:BA:1374:A:H4'	42:BJ:31:MET:HE1	1.99	0.45
34:BA:1480:G:C2'	34:BA:1481:U:C5'	2.95	0.45
34:BA:1519:A:C3'	34:BA:1520:G:H5'	2.46	0.45
37:BE:17:PHE:CD1	37:BE:17:PHE:C	2.94	0.45
37:BE:28:PHE:HE1	37:BE:31:TYR:O	1.95	0.45
37:BE:55:PHE:CE2	37:BE:218:ALA:CA	2.93	0.45
37:BE:77:ALA:HB2	37:BE:211:ILE:HD12	1.98	0.45
37:BE:124:SER:OG	37:BE:126:GLU:CG	2.65	0.45
37:BE:133:LYS:N	37:BE:133:LYS:CE	2.78	0.45
38:BF:5:ILE:HD12	38:BF:5:ILE:O	2.17	0.45
38:BF:43:LEU:O	38:BF:47:LEU:HD23	2.17	0.45
38:BF:51:GLY:O	38:BF:70:VAL:HG13	2.16	0.45
39:BG:62:GLN:HE21	39:BG:62:GLN:CA	2.23	0.45
39:BG:94:LEU:O	39:BG:97:LEU:HB2	2.17	0.45
39:BG:95:GLY:O	39:BG:98:GLU:N	2.50	0.45
40:BH:76:ILE:CG1	40:BH:77:PRO:HD2	2.47	0.45
41:BI:72:VAL:O	41:BI:73:ASN:C	2.59	0.45
42:BJ:14:PRO:CB	42:BJ:19:GLY:C	2.87	0.45
43:BK:104:ARG:HB2	43:BK:108:GLY:N	2.32	0.45
45:BM:31:GLY:N	45:BM:81:THR:OG1	2.50	0.45
45:BM:48:THR:CG2	45:BM:49:VAL:N	2.79	0.45
45:BM:49:VAL:C	45:BM:60:ARG:HD2	2.42	0.45
47:BO:68:ALA:HA	47:BO:98:TYR:O	2.17	0.45
51:BS:53:VAL:HG23	51:BS:54:GLU:H	1.81	0.45
53:BU:31:LEU:HD13	53:BU:65:ILE:CG1	2.46	0.45
54:BV:36:ARG:NH2	54:BV:72:GLY:C	2.75	0.45
55:BW:62:LEU:C	55:BW:65:LYS:HG2	2.41	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:42:C:H5'	7:AG:48:MET:HG3	1.97	0.44
1:AB:59:A:O5'	7:AG:144:ARG:CZ	2.65	0.44
1:AB:83:G:C2	1:AB:84:C:C6	3.05	0.44
2:AA:56:A:C3'	2:AA:57:C:C6	3.00	0.44
2:AA:60:G:C6	2:AA:63:U:O4	2.70	0.44
2:AA:80:G:O5'	2:AA:80:G:C8	2.69	0.44
2:AA:108:U:OP1	2:AA:292:C:O2'	2.35	0.44
2:AA:155:C:O2'	2:AA:161:U:O5'	2.35	0.44
2:AA:197:A:C3'	2:AA:198:C:H6	2.30	0.44
2:AA:245:G:N1	2:AA:254:G:N3	2.65	0.44
2:AA:283:A:C8	2:AA:284:U:C5	3.04	0.44
2:AA:302:C:C4	2:AA:303:U:O4	2.70	0.44
2:AA:319:C:C3'	2:AA:320:A:H8	2.30	0.44
2:AA:458:G:H2'	2:AA:469:G:O6	2.16	0.44
2:AA:552:G:C5	2:AA:553:U:C5	3.04	0.44
2:AA:612:G:O3'	2:AA:616:A:N6	2.50	0.44
2:AA:664:C:H4'	2:AA:941:A:OP1	2.17	0.44
2:AA:677:A:C2	2:AA:678:C:C5	3.05	0.44
2:AA:701:G:N1	2:AA:732:C:N4	2.65	0.44
2:AA:745:G:C2'	2:AA:746:A:H5'	2.47	0.44
2:AA:820:A:H2'	2:AA:820:A:N3	2.32	0.44
2:AA:880:G:C2	2:AA:881:G:H1'	2.51	0.44
2:AA:969:U:O2'	2:AA:970:C:O4'	2.35	0.44
2:AA:973:A:H2'	2:AA:974:G:C5'	2.14	0.44
2:AA:996:A:C5'	25:A1:93:LYS:CG	2.92	0.44
2:AA:1027:A:O2'	2:AA:1028:A:O5'	2.34	0.44
2:AA:1050:A:N6	2:AA:2751:G:C6	2.85	0.44
2:AA:1059:G:O6	2:AA:1060:U:H1'	2.18	0.44
2:AA:1153:C:C4	2:AA:1154:G:C6	3.06	0.44
2:AA:1179:C:C2'	2:AA:1180:C:H6	2.30	0.44
2:AA:1181:C:O2'	2:AA:1182:A:OP2	2.36	0.44
2:AA:1196:C:C2	2:AA:1197:G:N7	2.85	0.44
2:AA:1249:U:O2'	2:AA:1250:G:C5'	2.65	0.44
2:AA:1405:U:C2'	2:AA:1406:U:C6	2.95	0.44
2:AA:1436:G:C6	2:AA:1437:C:C5	3.05	0.44
2:AA:1456:G:N3	2:AA:1457:A:C8	2.86	0.44
2:AA:1475:G:C6	2:AA:1517:G:N2	2.85	0.44
2:AA:1508:A:C8	2:AA:1509:C:OP2	2.64	0.44
2:AA:1656:C:H2'	2:AA:1657:C:OP2	2.17	0.44
2:AA:1665:A:O2'	2:AA:1666:G:C5'	2.59	0.44
2:AA:1717:G:N1	2:AA:1718:G:C2	2.81	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1754:C:O2'	17:AR:44:ARG:NH2	2.50	0.44
2:AA:1829:A:N6	2:AA:1977:A:H62	2.14	0.44
2:AA:1861:G:C4'	3:AC:205:LYS:HZ3	2.30	0.44
2:AA:1891:G:N3	2:AA:1891:G:C2'	2.80	0.44
2:AA:1988:C:C2'	2:AA:1989:G:H5'	2.47	0.44
2:AA:2082:A:C5	2:AA:2239:G:N1	2.85	0.44
2:AA:2116:G:OP2	3:AC:126:LYS:HB2	2.14	0.44
2:AA:2143:C:C4	2:AA:2149:G:N1	2.83	0.44
2:AA:2150:U:C2'	2:AA:2151:G:N7	2.79	0.44
2:AA:2264:C:H2'	2:AA:2265:U:O5'	2.16	0.44
2:AA:2302:G:O6	2:AA:2315:G:O6	2.35	0.44
2:AA:2364:C:N4	2:AA:2365:G:C2	2.86	0.44
2:AA:2371:G:O2'	30:A6:47:HIS:NE2	2.31	0.44
2:AA:2388:A:N7	2:AA:2389:G:C6	2.85	0.44
2:AA:2406:U:O4	14:AO:55:GLN:HB3	2.16	0.44
2:AA:2615:U:C2	29:A5:7:PRO:HA	2.51	0.44
2:AA:2620:C:OP1	5:AE:248:SER:C	2.60	0.44
2:AA:2637:U:C2	2:AA:2782:G:C2	3.05	0.44
2:AA:2684:U:H5'	13:AN:76:TYR:CZ	2.52	0.44
2:AA:2754:U:C2'	2:AA:2756:U:OP2	2.64	0.44
2:AA:2761:G:C2'	2:AA:2762:G:C5'	2.94	0.44
2:AA:2808:U:H5''	2:AA:2809:A:OP2	2.17	0.44
2:AA:2856:C:C4	2:AA:2862:G:N1	2.84	0.44
2:AA:2874:C:O5'	2:AA:2874:C:H6	2.00	0.44
3:AC:36:LYS:CG	3:AC:37:PHE:CD2	2.94	0.44
3:AC:130:ILE:HG22	3:AC:131:LEU:HD23	1.97	0.44
4:AD:107:LYS:CB	4:AD:193:GLU:HB2	2.44	0.44
4:AD:116:MET:N	4:AD:127:ASN:OD1	2.34	0.44
4:AD:144:GLU:CD	4:AD:148:GLY:N	2.75	0.44
6:AF:33:LYS:N	6:AF:36:ARG:HE	2.14	0.44
6:AF:46:TYR:H	6:AF:98:ARG:NH1	2.15	0.44
6:AF:82:GLN:HE21	6:AF:82:GLN:HB3	1.53	0.44
7:AG:147:ALA:O	7:AG:149:ARG:N	2.50	0.44
8:AH:108:TYR:N	8:AH:108:TYR:HD2	2.12	0.44
8:AH:121:GLU:OE2	8:AH:121:GLU:N	2.48	0.44
10:AK:8:ASP:O	10:AK:9:VAL:HB	2.16	0.44
10:AK:72:LEU:O	10:AK:73:GLU:C	2.60	0.44
10:AK:79:ILE:HD13	10:AK:145:VAL:HG23	1.99	0.44
10:AK:133:LEU:HD12	10:AK:139:ALA:N	2.32	0.44
12:AM:14:ALA:C	12:AM:15:ARG:HG3	2.42	0.44
13:AN:43:VAL:CG1	13:AN:54:LYS:CA	2.75	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:52:LYS:CE	14:AO:53:ARG:CZ	2.94	0.44
14:AO:66:VAL:CG2	14:AO:110:GLY:O	2.65	0.44
15:AP:11:LYS:HD2	15:AP:91:HIS:NE2	2.31	0.44
15:AP:67:ALA:HA	15:AP:70:ARG:NE	2.32	0.44
16:AQ:16:ALA:C	16:AQ:18:THR:N	2.75	0.44
16:AQ:32:PRO:HD3	16:AQ:100:ALA:HA	1.97	0.44
16:AQ:90:LEU:HD23	16:AQ:93:GLN:NE2	2.32	0.44
18:AS:11:ARG:HE	18:AS:82:LEU:HD21	1.82	0.44
19:AT:17:ASP:O	19:AT:22:ASN:O	2.35	0.44
21:AV:45:GLN:NE2	21:AV:45:GLN:CA	2.79	0.44
21:AV:56:VAL:CG1	21:AV:57:GLU:HG2	2.45	0.44
23:AX:5:LYS:HA	23:AX:35:ARG:O	2.17	0.44
23:AX:12:PRO:HG2	23:AX:13:ILE:N	2.32	0.44
24:A0:29:LEU:N	24:A0:29:LEU:CD2	2.80	0.44
24:A0:45:ARG:HG2	24:A0:45:ARG:NH1	2.31	0.44
25:A1:64:ARG:O	25:A1:67:ALA:CB	2.65	0.44
25:A1:94:VAL:O	25:A1:97:ASP:HB2	2.17	0.44
26:A2:78:VAL:CB	26:A2:80:TYR:CD1	2.77	0.44
26:A2:96:LEU:HD23	26:A2:96:LEU:N	2.28	0.44
27:A3:24:LYS:CD	27:A3:56:ASP:CG	2.90	0.44
27:A3:29:GLU:O	27:A3:31:VAL:CG2	2.65	0.44
29:A5:51:TYR:HB3	29:A5:52:TYR:H	1.37	0.44
30:A6:37:LEU:HD23	30:A6:50:PHE:O	2.18	0.44
31:A7:24:THR:HG23	31:A7:27:GLY:N	2.31	0.44
33:A9:9:LYS:CE	33:A9:16:VAL:CG2	2.93	0.44
34:BA:61:G:N7	34:BA:62:U:C5	2.85	0.44
34:BA:131:C:C2'	34:BA:132:C:O5'	2.66	0.44
34:BA:191:G:H2'	34:BA:192:U:C6	2.49	0.44
34:BA:386:C:H3'	34:BA:386:C:C6	2.52	0.44
34:BA:424:G:N3	34:BA:425:G:C8	2.86	0.44
34:BA:516:U:C5	34:BA:517:G:C6	3.05	0.44
34:BA:583:A:O2'	34:BA:584:G:H5'	2.17	0.44
34:BA:597:G:H2'	34:BA:598:U:H5'	1.98	0.44
34:BA:630:G:C2	34:BA:631:G:C8	3.04	0.44
34:BA:767:A:N1	34:BA:768:A:C2	2.85	0.44
34:BA:781:A:H2'	34:BA:782:A:O5'	2.15	0.44
34:BA:802:A:N6	34:BA:803:G:N2	2.64	0.44
34:BA:849:C:C2'	34:BA:850:U:H5'	2.46	0.44
34:BA:915:A:C2'	34:BA:916:G:H5'	2.47	0.44
34:BA:979:C:OP2	34:BA:980:C:N4	2.51	0.44
34:BA:1018:C:N3	34:BA:1019:C:C6	2.85	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1101:A:C2	37:BE:99:GLY:HA3	2.52	0.44
34:BA:1153:C:N4	34:BA:1154:G:C6	2.85	0.44
34:BA:1156:G:C1'	34:BA:1179:A:H61	2.19	0.44
34:BA:1192:C:C4	34:BA:1193:G:C4	3.04	0.44
34:BA:1217:C:H6	34:BA:1217:C:O5'	2.00	0.44
34:BA:1239:A:H2'	34:BA:1298:C:H41	1.72	0.44
34:BA:1245:A:H2'	34:BA:1246:C:H6	1.72	0.44
34:BA:1327:C:O2'	34:BA:1328:C:C5'	2.65	0.44
34:BA:1390:U:C2	34:BA:1391:U:C5	3.05	0.44
34:BA:1419:G:H2'	34:BA:1420:C:C6	2.52	0.44
34:BA:1433:A:C4	34:BA:1468:A:C2	3.05	0.44
34:BA:1513:A:H2'	34:BA:1514:C:H6	1.73	0.44
35:BC:21:A:N1	35:BC:48:C:C4	2.85	0.44
37:BE:7:VAL:O	37:BE:9:GLU:N	2.50	0.44
37:BE:67:THR:HB	37:BE:90:MET:SD	2.57	0.44
37:BE:102:LEU:O	37:BE:180:LEU:HD11	2.17	0.44
37:BE:189:ASP:OD2	37:BE:205:ASP:N	2.45	0.44
38:BF:33:LEU:CG	49:BQ:54:PRO:HD2	2.44	0.44
38:BF:91:LEU:HD23	38:BF:92:ALA:CA	2.47	0.44
38:BF:179:ARG:O	38:BF:181:ASN:N	2.50	0.44
39:BG:19:LEU:H	39:BG:33:MET:HE1	1.80	0.44
39:BG:53:ASP:C	39:BG:56:VAL:HB	2.34	0.44
39:BG:145:GLU:CG	39:BG:184:LYS:HE2	2.26	0.44
39:BG:161:ASN:O	39:BG:162:LEU:C	2.59	0.44
40:BH:76:ILE:HG23	40:BH:77:PRO:CG	2.47	0.44
40:BH:112:LEU:HD22	40:BH:112:LEU:HA	1.80	0.44
41:BI:76:ALA:O	41:BI:79:LEU:HG	2.16	0.44
42:BJ:20:ASP:OD1	42:BJ:63:LYS:NZ	2.50	0.44
42:BJ:115:ARG:C	42:BJ:118:VAL:HG23	2.42	0.44
42:BJ:146:GLU:HG3	42:BJ:149:ARG:NH2	2.24	0.44
43:BK:18:ARG:HH11	43:BK:18:ARG:N	2.08	0.44
43:BK:56:LYS:HA	43:BK:57:PRO:HD2	1.77	0.44
43:BK:114:THR:HB	43:BK:130:GLY:O	2.16	0.44
44:BL:102:LEU:O	44:BL:103:THR:HB	2.17	0.44
46:BN:33:THR:CA	46:BN:40:ILE:HG13	2.48	0.44
46:BN:67:ASP:C	46:BN:67:ASP:OD1	2.60	0.44
47:BO:30:ALA:CB	47:BO:31:PRO:CD	2.92	0.44
47:BO:42:THR:C	47:BO:43:VAL:HG23	2.42	0.44
48:BP:60:VAL:C	48:BP:63:THR:HG22	2.41	0.44
48:BP:74:VAL:HG12	48:BP:78:ILE:HD12	1.93	0.44
49:BQ:47:LEU:HB3	49:BQ:53:LEU:HD21	1.97	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BQ:50:LYS:HD3	49:BQ:52:GLN:CD	2.42	0.44
53:BU:46:GLU:N	53:BU:46:GLU:CD	2.75	0.44
53:BU:53:ARG:C	53:BU:55:ARG:N	2.53	0.44
54:BV:62:ILE:CG1	54:BV:63:THR:N	2.73	0.44
56:BX:14:TRP:CZ3	56:BX:15:ARG:HG3	2.53	0.44
2:AA:14:A:N7	2:AA:15:G:C5	2.82	0.44
2:AA:25:U:H3'	2:AA:26:G:C8	2.52	0.44
2:AA:185:U:O2'	2:AA:186:G:C5'	2.65	0.44
2:AA:200:U:H2'	2:AA:201:C:H5'	1.99	0.44
2:AA:203:C:P	2:AA:204:A:H3'	2.57	0.44
2:AA:269:U:O4	2:AA:370:G:N7	2.50	0.44
2:AA:280:C:HO2'	2:AA:281:G:P	2.35	0.44
2:AA:356:G:H2'	2:AA:357:A:C4	2.51	0.44
2:AA:374:A:N3	2:AA:375:C:O4'	2.50	0.44
2:AA:396:G:O2'	28:A4:39:VAL:CG1	2.65	0.44
2:AA:519:U:H5'	18:AS:75:TYR:CB	2.47	0.44
2:AA:565:C:C4	2:AA:566:U:C4	3.05	0.44
2:AA:578:A:H2'	2:AA:579:G:C5'	2.47	0.44
2:AA:668:G:H5'	2:AA:669:G:P	2.56	0.44
2:AA:831:G:O6	2:AA:832:G:C6	2.70	0.44
2:AA:846:C:H1'	2:AA:847:U:H5	1.82	0.44
2:AA:892:G:N1	2:AA:893:C:C4	2.86	0.44
2:AA:917:A:H5''	2:AA:2268:A:N6	2.33	0.44
2:AA:971:C:O2'	2:AA:972:G:H4'	2.17	0.44
2:AA:1008:C:O5'	2:AA:1008:C:H6	2.00	0.44
2:AA:1084:A:N1	2:AA:1085:A:C2	2.86	0.44
2:AA:1106:G:O6	2:AA:1107:G:O6	2.35	0.44
2:AA:1173:G:H2'	2:AA:1174:A:N7	2.32	0.44
2:AA:1311:G:C8	2:AA:1311:G:C3'	3.00	0.44
2:AA:1349:A:C2'	2:AA:1350:C:OP1	2.65	0.44
2:AA:1353:A:N7	2:AA:1377:G:N2	2.65	0.44
2:AA:1364:G:O5'	2:AA:1809:A:C5	2.69	0.44
2:AA:1380:G:C6	2:AA:1381:G:C5	3.05	0.44
2:AA:1381:G:O6	2:AA:1382:G:C6	2.71	0.44
2:AA:1425:G:H2'	2:AA:1426:G:C5	2.52	0.44
2:AA:1451:C:C3'	2:AA:1453:A:H5'	2.47	0.44
2:AA:1650:G:C2	2:AA:1651:G:N9	2.84	0.44
2:AA:1657:C:C2	2:AA:1658:C:C6	3.06	0.44
2:AA:1663:C:C4	2:AA:1992:G:N7	2.85	0.44
2:AA:1707:G:C3'	2:AA:1708:C:H6	2.30	0.44
2:AA:1839:G:N3	2:AA:1839:G:C2'	2.80	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1857:G:C6	2:AA:1884:A:N1	2.85	0.44
2:AA:2004:G:C6	2:AA:2005:A:C6	3.05	0.44
2:AA:2018:G:N1	2:AA:2019:A:C4	2.85	0.44
2:AA:2032:G:O6	2:AA:2454:G:C4'	2.66	0.44
2:AA:2053:G:C2	2:AA:2054:A:C4	3.05	0.44
2:AA:2069:G:C4	2:AA:2443:C:N3	2.84	0.44
2:AA:2107:C:C6	2:AA:2107:C:H3'	2.53	0.44
2:AA:2115:G:N3	2:AA:2115:G:C2'	2.80	0.44
2:AA:2135:A:H62	2:AA:2150:U:C2'	2.30	0.44
2:AA:2654:A:O2'	2:AA:2655:G:C1'	2.65	0.44
2:AA:2694:G:H2'	2:AA:2695:C:H5'	1.99	0.44
2:AA:2746:U:O4	2:AA:2756:U:C5	2.71	0.44
2:AA:2765:A:H3'	2:AA:2765:A:N3	2.33	0.44
2:AA:2766:G:C2	2:AA:2767:C:C5	3.06	0.44
2:AA:2785:C:H1'	5:AE:100:TRP:NE1	2.32	0.44
2:AA:2850:A:O2'	2:AA:2851:A:O5'	2.31	0.44
3:AC:91:ALA:CB	3:AC:153:ILE:HD13	2.47	0.44
3:AC:225:ASN:C	3:AC:227:HIS:N	2.74	0.44
4:AD:76:ARG:HB3	4:AD:113:MET:CG	2.45	0.44
4:AD:144:GLU:OE1	4:AD:187:CYS:HB3	2.17	0.44
5:AE:43:GLY:O	5:AE:309:PRO:HG2	2.17	0.44
5:AE:68:VAL:CG1	5:AE:69:PRO:N	2.78	0.44
5:AE:196:GLY:HA2	5:AE:297:LYS:NZ	2.31	0.44
5:AE:240:PRO:C	5:AE:243:PRO:HD2	2.42	0.44
6:AF:93:LYS:HB2	6:AF:96:LYS:HE3	1.99	0.44
6:AF:102:LEU:HB2	6:AF:107:ARG:NE	2.23	0.44
6:AF:144:PHE:C	6:AF:146:ASP:N	2.74	0.44
6:AF:144:PHE:CD2	6:AF:156:LEU:CD1	3.01	0.44
7:AG:58:VAL:CG1	7:AG:61:PHE:CD1	3.00	0.44
8:AH:123:GLU:O	8:AH:130:ILE:HG23	2.17	0.44
9:AI:63:LEU:HB3	9:AI:95:ALA:HB1	1.98	0.44
10:AK:4:ILE:CG1	10:AK:37:ILE:O	2.64	0.44
10:AK:99:ALA:HA	10:AK:102:LEU:HG	1.99	0.44
10:AK:110:LEU:CD1	10:AK:114:LYS:HZ1	2.30	0.44
10:AK:114:LYS:NZ	10:AK:133:LEU:HD22	2.32	0.44
10:AK:131:VAL:HG12	10:AK:133:LEU:HD21	1.99	0.44
11:AL:21:ALA:HB3	11:AL:22:PRO:HD3	1.97	0.44
11:AL:113:MET:CA	11:AL:116:LEU:HB3	2.47	0.44
12:AM:19:MET:CB	12:AM:46:ILE:HG13	2.47	0.44
12:AM:108:PRO:HD2	12:AM:109:TYR:H	1.81	0.44
15:AP:26:LYS:HZ2	15:AP:88:PHE:HB3	1.78	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:50:VAL:HG11	15:AP:147:VAL:HG22	1.99	0.44
18:AS:12:ILE:HD12	18:AS:46:PHE:CD2	2.52	0.44
19:AT:3:ASP:HA	22:AW:24:LYS:CD	2.48	0.44
19:AT:16:ASN:O	19:AT:19:ASP:OD1	2.35	0.44
19:AT:44:GLN:OE1	19:AT:45:TYR:HD1	1.99	0.44
20:AU:19:ARG:HA	20:AU:22:GLN:CD	2.41	0.44
20:AU:20:HIS:CD2	20:AU:20:HIS:C	2.95	0.44
22:AW:8:ILE:O	22:AW:11:MET:CB	2.63	0.44
22:AW:45:ARG:HG3	22:AW:46:ILE:N	2.32	0.44
24:A0:16:HIS:O	24:A0:19:ALA:HB3	2.16	0.44
24:A0:43:GLU:O	24:A0:44:LEU:C	2.60	0.44
24:A0:67:LEU:CD2	24:A0:71:GLN:CA	2.91	0.44
25:A1:5:LYS:C	25:A1:7:GLY:N	2.68	0.44
25:A1:13:ARG:O	25:A1:14:HIS:C	2.57	0.44
25:A1:14:HIS:CD2	25:A1:36:PHE:CE2	3.05	0.44
25:A1:111:ASP:HA	25:A1:114:ARG:HG3	1.98	0.44
27:A3:39:ARG:NH1	27:A3:69:PHE:CD1	2.86	0.44
28:A4:32:HIS:O	28:A4:33:VAL:O	2.35	0.44
29:A5:49:CYS:O	29:A5:57:VAL:HG11	2.17	0.44
33:A9:9:LYS:N	33:A9:34:GLN:HE22	2.14	0.44
34:BA:25:C:H4'	34:BA:524:G:N3	2.33	0.44
34:BA:116:A:C6	34:BA:117:G:C5	3.05	0.44
34:BA:188:C:N3	34:BA:189:G:N7	2.65	0.44
34:BA:240:C:N3	34:BA:241:C:H5	2.14	0.44
34:BA:286:G:HO2'	34:BA:287:U:H5'	1.81	0.44
34:BA:293:G:C6	34:BA:305:G:C2	3.05	0.44
34:BA:315:A:O2'	34:BA:316:G:OP2	2.33	0.44
34:BA:386:C:C2'	34:BA:387:U:C5'	2.69	0.44
34:BA:442:C:C2	34:BA:443:C:C6	3.04	0.44
34:BA:463:A:C8	34:BA:474:G:N7	2.85	0.44
34:BA:532:A:HO2'	34:BA:533:A:P	2.38	0.44
34:BA:730:G:C5	34:BA:731:G:H1'	2.52	0.44
34:BA:740:U:OP2	50:BR:2:PRO:CG	2.64	0.44
34:BA:742:G:H2'	34:BA:743:U:O4'	2.17	0.44
34:BA:838:G:C2	34:BA:849:C:C2	3.06	0.44
34:BA:939:G:H5''	42:BJ:102:ARG:NH1	2.26	0.44
34:BA:957:U:H3	34:BA:960:U:C5'	2.29	0.44
34:BA:974:A:C1'	49:BQ:31:ARG:NH2	2.62	0.44
34:BA:979:C:H42	49:BQ:18:VAL:C	2.25	0.44
34:BA:1026:G:C5	34:BA:1027:C:C6	3.05	0.44
34:BA:1075:C:H4'	34:BA:1101:A:N6	2.32	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1113:C:OP2	34:BA:1113:C:C5	2.69	0.44
34:BA:1117:G:C4	34:BA:1184:G:N1	2.86	0.44
34:BA:1127:G:H1'	34:BA:1148:U:C4	2.51	0.44
34:BA:1129:C:C5	34:BA:1133:G:O6	2.70	0.44
34:BA:1130:A:C2	34:BA:1146:A:C4	3.06	0.44
34:BA:1188:A:H4'	49:BQ:58:LYS:HZ1	1.82	0.44
34:BA:1249:C:C1'	44:BL:70:LYS:NZ	2.80	0.44
34:BA:1269:A:N9	34:BA:1313:U:H1'	2.33	0.44
34:BA:1288:A:C4	34:BA:1289:A:N7	2.84	0.44
34:BA:1317:C:OP1	34:BA:1317:C:H6	1.99	0.44
34:BA:1321:C:H41	54:BV:37:ARG:NH1	2.15	0.44
34:BA:1386:G:C2'	34:BA:1387:G:O5'	2.65	0.44
34:BA:1402:C:H2'	34:BA:1403:C:O4'	2.17	0.44
34:BA:1435:G:H1	34:BA:1466:C:H42	1.65	0.44
34:BA:1468:A:N7	34:BA:1469:G:N7	2.65	0.44
35:BB:16:U:H4'	35:BB:18:G:H5''	1.99	0.44
35:BB:58:A:C4	35:BB:61:C:C5	3.05	0.44
35:BB:60:C:OP2	35:BB:61:C:H6	1.88	0.44
35:BC:10:G:N1	35:BC:11:C:C4	2.85	0.44
35:BC:21:A:C2	35:BC:48:C:C4	3.06	0.44
37:BE:39:ILE:CG2	37:BE:40:HIS:O	2.66	0.44
37:BE:152:PHE:CD1	37:BE:153:ARG:N	2.85	0.44
37:BE:166:ASP:HA	37:BE:187:LEU:O	2.17	0.44
37:BE:182:ILE:HG22	37:BE:183:PRO:HD2	1.98	0.44
38:BF:18:TRP:HZ2	49:BQ:57:ARG:HB2	1.82	0.44
38:BF:21:ARG:O	38:BF:22:TRP:CD1	2.70	0.44
38:BF:23:TYR:CD2	38:BF:24:ALA:N	2.83	0.44
38:BF:145:GLY:O	38:BF:146:ALA:HB2	2.16	0.44
39:BG:8:VAL:CA	39:BG:11:LEU:HG	2.46	0.44
39:BG:47:ARG:NH2	39:BG:48:ALA:O	2.47	0.44
39:BG:60:GLU:HB3	39:BG:202:LEU:HB3	1.97	0.44
40:BH:43:LEU:HD13	40:BH:133:TYR:HE2	1.80	0.44
41:BI:89:MET:HG2	53:BU:76:LEU:HD11	1.98	0.44
42:BJ:35:LYS:O	42:BJ:36:LYS:C	2.59	0.44
42:BJ:38:LEU:HA	42:BJ:41:ARG:CG	2.29	0.44
42:BJ:122:HIS:O	42:BJ:125:MET:HB2	2.18	0.44
42:BJ:124:LEU:C	42:BJ:127:ALA:HB3	2.39	0.44
43:BK:38:ILE:CA	43:BK:41:ARG:HB3	2.41	0.44
43:BK:88:LYS:O	43:BK:89:PRO:C	2.60	0.44
44:BL:116:LYS:HB3	44:BL:122:ALA:CA	2.41	0.44
45:BM:3:LYS:HG3	45:BM:75:ILE:HG23	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:30:SER:CB	45:BM:81:THR:CA	2.95	0.44
47:BO:39:VAL:CG1	47:BO:41:ARG:HB2	2.47	0.44
50:BR:63:ARG:O	50:BR:67:LEU:HG	2.17	0.44
51:BS:54:GLU:C	51:BS:56:ALA:N	2.75	0.44
52:BT:28:PRO:CA	52:BT:35:VAL:HA	2.41	0.44
53:BU:36:ASN:HB3	53:BU:40:LEU:CG	2.47	0.44
54:BV:41:VAL:C	54:BV:67:VAL:CG1	2.90	0.44
55:BW:14:LYS:C	55:BW:16:HIS:N	2.69	0.44
55:BW:26:ASN:HB3	55:BW:71:THR:HG23	1.99	0.44
55:BW:92:LEU:HG	55:BW:92:LEU:H	1.48	0.44
1:AB:17:C:C3'	1:AB:18:G:H8	2.29	0.44
1:AB:83:G:H5''	23:AX:52:HIS:CD2	2.53	0.44
2:AA:60:G:N7	2:AA:63:U:C5	2.86	0.44
2:AA:62:C:P	2:AA:63:U:OP1	2.75	0.44
2:AA:72:U:H1'	22:AW:54:ALA:CA	2.46	0.44
2:AA:136:G:C6	2:AA:143:C:C2	3.05	0.44
2:AA:143:C:H6	2:AA:143:C:C3'	2.30	0.44
2:AA:261:G:N2	2:AA:262:A:C4	2.85	0.44
2:AA:322:A:C4'	2:AA:341:G:H5'	2.46	0.44
2:AA:354:G:O5'	2:AA:354:G:H8	2.00	0.44
2:AA:391:G:N7	2:AA:411:G:N2	2.65	0.44
2:AA:435:C:H2'	2:AA:436:C:C5'	2.46	0.44
2:AA:438:G:H2'	2:AA:439:G:O5'	2.17	0.44
2:AA:449:A:C2	2:AA:450:G:C5	3.04	0.44
2:AA:531:C:H2'	2:AA:532:A:OP1	2.17	0.44
2:AA:556:G:C2'	2:AA:557:U:O4'	2.64	0.44
2:AA:561:G:O2'	25:A1:45:TYR:OH	2.26	0.44
2:AA:674:G:C2	2:AA:804:A:C2	3.05	0.44
2:AA:680:G:C6	2:AA:681:G:C6	3.06	0.44
2:AA:684:G:N1	2:AA:775:G:C8	2.85	0.44
2:AA:729:G:N1	2:AA:1775:U:C6	2.85	0.44
2:AA:819:A:C2	2:AA:1189:A:N3	2.86	0.44
2:AA:834:C:C1'	2:AA:2358:G:C2	2.99	0.44
2:AA:851:U:N3	2:AA:928:G:N2	2.65	0.44
2:AA:852:G:N1	2:AA:853:G:C5	2.86	0.44
2:AA:958:U:C4	15:AP:9:SER:HA	2.52	0.44
2:AA:988:A:OP1	23:AX:11:SER:CB	2.51	0.44
2:AA:1024:G:H3'	2:AA:1024:G:H8	1.80	0.44
2:AA:1024:G:C6	2:AA:1025:G:C8	3.06	0.44
2:AA:1063:G:C2	2:AA:1075:C:N4	2.84	0.44
2:AA:1064:C:N4	2:AA:1075:C:N4	2.65	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1085:A:P	9:AI:34:ALA:HA	2.57	0.44
2:AA:1154:G:O2'	2:AA:1155:A:C5'	2.64	0.44
2:AA:1198:U:H2'	2:AA:1199:U:C5	2.52	0.44
2:AA:1233:C:H2'	2:AA:1233:C:O2	2.16	0.44
2:AA:1256:G:H2'	2:AA:1257:C:C6	2.45	0.44
2:AA:1342:A:C8	2:AA:1342:A:H3'	2.52	0.44
2:AA:1351:C:C4	2:AA:1381:G:N1	2.86	0.44
2:AA:1365:A:N6	2:AA:1366:A:C6	2.85	0.44
2:AA:1413:G:C4	2:AA:1414:G:C8	3.06	0.44
2:AA:444(A):A:H2'	2:AA:1460:A:HO2'	1.82	0.44
2:AA:1522:G:H8	2:AA:1522:G:O5'	2.00	0.44
2:AA:1566:A:O4'	2:AA:1566:A:P	2.75	0.44
2:AA:1571:A:H2	2:AA:1572:A:H8	1.66	0.44
2:AA:1625:C:H6	2:AA:1625:C:O5'	2.01	0.44
2:AA:1657:C:C6	2:AA:1657:C:O5'	2.70	0.44
2:AA:1660:C:H2'	2:AA:1661:G:H8	1.82	0.44
2:AA:1668:A:N7	2:AA:1993:U:O4	2.49	0.44
2:AA:1684:C:N4	2:AA:1705:G:N1	2.66	0.44
2:AA:1767:C:C4	2:AA:1768:U:C5	3.05	0.44
2:AA:1778:U:N3	2:AA:1784:A:N3	2.65	0.44
2:AA:1803:A:C8	2:AA:1803:A:H3'	2.52	0.44
2:AA:1881:C:H2'	2:AA:1882:C:O4'	2.18	0.44
2:AA:1891:G:C6	2:AA:1892:C:C4	3.05	0.44
2:AA:1999:C:H4'	2:AA:2723:C:O2	2.16	0.44
2:AA:2078:C:C4	2:AA:2079:U:C5	3.05	0.44
2:AA:2110:G:O6	2:AA:2179:C:N3	2.50	0.44
2:AA:2193:G:N1	2:AA:2194:G:N7	2.65	0.44
2:AA:2197:U:O2'	2:AA:2198:A:C8	2.64	0.44
2:AA:2261:C:H5'	2:AA:2388:A:C4'	2.47	0.44
2:AA:2284:C:N4	2:AA:2285:C:N4	2.65	0.44
2:AA:2345:G:N2	2:AA:2381:C:H2'	2.32	0.44
2:AA:2385:C:C2	2:AA:2386:C:C6	3.06	0.44
2:AA:2461:C:O2	2:AA:2462:U:C6	2.71	0.44
2:AA:2468:G:O2'	2:AA:2469:A:H8	1.88	0.44
2:AA:2600:A:N3	2:AA:2601:C:C5	2.85	0.44
2:AA:2624:G:N1	2:AA:2625:G:C4	2.86	0.44
2:AA:2635:C:N3	2:AA:2636:U:C6	2.85	0.44
2:AA:2637:U:C2	2:AA:2782:G:N2	2.86	0.44
2:AA:2639:A:H1'	2:AA:2778:A:C2	2.52	0.44
2:AA:2737:G:N2	2:AA:2768:C:C2	2.86	0.44
2:AA:2781:A:H5'	2:AA:2782:G:O4'	2.16	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2785:C:H1'	5:AE:100:TRP:HD1	1.76	0.44
2:AA:2804:C:H5	2:AA:2805:G:O6	1.98	0.44
2:AA:2825:C:C4	2:AA:2826:A:C8	3.06	0.44
2:AA:2836:U:C2'	2:AA:2837:G:O5'	2.66	0.44
2:AA:2873:A:O2'	2:AA:2874:C:OP1	2.33	0.44
2:AA:2877:G:C2	2:AA:2878:U:C4	3.05	0.44
3:AC:62:VAL:HG21	3:AC:192:PHE:HA	1.99	0.44
3:AC:177:LYS:C	3:AC:179:SER:N	2.73	0.44
4:AD:78:ALA:HB2	4:AD:94:ASN:CG	2.42	0.44
6:AF:89:ALA:O	6:AF:90:HIS:CD2	2.71	0.44
6:AF:200:PRO:HD3	6:AF:214:THR:HG22	1.99	0.44
8:AH:13:GLY:O	8:AH:15:THR:N	2.51	0.44
8:AH:76:GLU:C	8:AH:79:SER:HG	2.22	0.44
9:AJ:1:MET:N	9:AJ:5:GLU:OE1	2.50	0.44
10:AK:7:LYS:N	10:AK:14:LYS:CG	2.79	0.44
11:AL:85:ILE:HG23	11:AL:85:ILE:O	2.16	0.44
11:AL:93:LYS:HZ2	21:AV:108:VAL:CG1	2.28	0.44
13:AN:65:THR:OG1	13:AN:67:ARG:HG2	2.17	0.44
13:AN:112:MET:N	13:AN:115:ILE:HD12	2.32	0.44
14:AO:113:GLN:O	14:AO:114:VAL:C	2.60	0.44
15:AP:143:VAL:HG21	15:AP:147:VAL:CG2	2.47	0.44
16:AQ:80:SER:OG	16:AQ:81:ALA:N	2.51	0.44
20:AU:80:GLU:HA	20:AU:86:GLU:HA	1.99	0.44
20:AU:101:LEU:HD13	20:AU:113:GLU:CB	2.47	0.44
24:A0:64:ARG:NH1	24:A0:65:LEU:HG	2.31	0.44
24:A0:67:LEU:CB	24:A0:76:VAL:HG21	2.43	0.44
24:A0:100:LEU:HD23	24:A0:113:LEU:H	1.81	0.44
25:A1:10:ARG:O	25:A1:11:ARG:C	2.59	0.44
25:A1:19:LYS:HB2	25:A1:19:LYS:HE3	1.56	0.44
34:BA:25:C:N4	34:BA:558:G:N2	2.65	0.44
34:BA:32:A:N3	34:BA:33:A:H1'	2.33	0.44
34:BA:67:C:O2	34:BA:171:A:H2	2.01	0.44
34:BA:89:C:C5	34:BA:90:U:C5	3.06	0.44
34:BA:120:A:C6	34:BA:122:G:C2	3.06	0.44
34:BA:376:G:C6	34:BA:377:G:N7	2.86	0.44
34:BA:381:C:H2'	34:BA:382:A:C8	2.51	0.44
34:BA:405:U:H3'	34:BA:406:G:H5'	1.98	0.44
34:BA:484:G:O2'	34:BA:485:G:OP2	2.33	0.44
34:BA:557:G:H5''	34:BA:558:G:OP2	2.18	0.44
34:BA:586:C:N3	34:BA:755:G:N2	2.61	0.44
34:BA:628:G:C2'	34:BA:629:G:H8	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:642:A:C2	43:BK:114:THR:C	2.96	0.44
34:BA:673:G:O2'	34:BA:674:G:O4'	2.30	0.44
34:BA:683:G:N2	46:BN:39:PRO:HD2	2.33	0.44
34:BA:685:G:O5'	34:BA:685:G:H8	2.00	0.44
34:BA:722:A:N1	34:BA:724:G:C6	2.85	0.44
34:BA:886:G:C6	34:BA:912:C:N3	2.86	0.44
34:BA:946:A:N3	34:BA:947:G:C8	2.85	0.44
34:BA:951:G:C2	34:BA:952:U:N1	2.85	0.44
34:BA:959:A:C2	34:BA:1221:G:N3	2.81	0.44
34:BA:1005:A:H3'	34:BA:1006:C:H6	1.82	0.44
34:BA:1104:G:C4	34:BA:1105:A:C8	3.06	0.44
34:BA:1178:G:H8	34:BA:1178:G:P	2.40	0.44
34:BA:1186:G:OP2	34:BA:1186:G:H8	2.00	0.44
34:BA:1189:C:H5''	38:BF:5:ILE:HG12	1.99	0.44
34:BA:1193:G:C6	34:BA:1194:U:C4	3.06	0.44
34:BA:1216:G:H5''	49:BQ:5:ALA:HB1	1.97	0.44
34:BA:1265:G:O6	34:BA:1266:G:N2	2.51	0.44
34:BA:1412:C:C2	34:BA:1489:G:N2	2.85	0.44
34:BA:1485:U:O2	34:BA:1486:G:C8	2.71	0.44
34:BA:1490:C:C6	34:BA:1490:C:C4'	2.97	0.44
36:B1:12:U:H2'	36:B1:13:G:O5'	2.17	0.44
36:B1:25:U:O4	36:B1:28:U:OP2	2.34	0.44
36:B1:66:G:H2'	36:B1:66:G:N3	2.31	0.44
37:BE:97:TRP:CZ2	37:BE:173:ALA:HB2	2.53	0.44
37:BE:197:VAL:HG12	37:BE:198:ASP:N	2.32	0.44
37:BE:217:ARG:HG3	37:BE:217:ARG:HH11	1.81	0.44
37:BE:218:ALA:C	37:BE:220:ASP:H	2.25	0.44
38:BF:21:ARG:HH21	38:BF:54:ARG:NH2	2.10	0.44
38:BF:77:ILE:O	38:BF:81:GLY:HA2	2.18	0.44
38:BF:83:ARG:CZ	38:BF:87:LEU:HD21	2.43	0.44
38:BF:107:GLN:O	38:BF:108:ASN:HB2	2.16	0.44
38:BF:156:ARG:N	38:BF:163:ALA:CB	2.76	0.44
39:BG:62:GLN:O	39:BG:63:LYS:C	2.57	0.44
39:BG:148:VAL:HG21	39:BG:181:MET:HE2	1.97	0.44
39:BG:193:ASP:O	39:BG:194:LEU:HD22	2.13	0.44
40:BH:28:PHE:HE1	40:BH:49:PRO:C	2.25	0.44
40:BH:28:PHE:HE1	40:BH:49:PRO:O	2.01	0.44
40:BH:39:GLY:CA	40:BH:69:VAL:HG23	2.47	0.44
41:BI:26:ILE:O	41:BI:27:GLN:C	2.59	0.44
41:BI:70:ASP:CG	41:BI:71:ARG:N	2.74	0.44
42:BJ:26:PHE:CE2	42:BJ:30:ILE:HD11	2.52	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:80:VAL:O	42:BJ:80:VAL:HG12	2.18	0.44
42:BJ:125:MET:C	42:BJ:127:ALA:N	2.74	0.44
43:BK:14:ARG:HD2	43:BK:15:ASN:N	2.33	0.44
43:BK:28:ALA:HB2	43:BK:57:PRO:C	2.42	0.44
43:BK:92:ARG:HB3	43:BK:94:TYR:HE1	1.83	0.44
44:BL:48:GLU:N	44:BL:49:PRO:CD	2.80	0.44
46:BN:42:TRP:CE3	46:BN:43:SER:HA	2.45	0.44
46:BN:43:SER:OG	46:BN:44:SER:N	2.50	0.44
48:BP:71:ARG:HA	48:BP:74:VAL:CG2	2.45	0.44
49:BQ:43:CYS:O	49:BQ:47:LEU:CG	2.62	0.44
50:BR:79:ARG:O	50:BR:82:ILE:HB	2.16	0.44
51:BS:14:ASN:OD1	51:BS:16:HIS:CE1	2.70	0.44
54:BV:21:GLU:C	54:BV:23:ASN:H	2.26	0.44
55:BW:67:ALA:O	55:BW:68:LYS:O	2.35	0.44
1:AB:29:A:OP1	16:AQ:39:SER:HB3	2.18	0.44
1:AB:45:A:H3'	1:AB:46:A:C8	2.53	0.44
2:AA:71:A:H3'	2:AA:71:A:OP2	2.18	0.44
2:AA:147:U:C2	2:AA:148:C:C6	3.05	0.44
2:AA:147:U:N3	2:AA:148:C:C4	2.85	0.44
2:AA:270(V):G:C5	2:AA:270(W):G:N7	2.85	0.44
2:AA:298:G:H1	2:AA:338:G:H4'	1.82	0.44
2:AA:325:G:O2'	2:AA:326:G:C5'	2.63	0.44
2:AA:342:G:C2'	2:AA:343:C:H6	2.21	0.44
2:AA:449:A:H4'	2:AA:1248:G:H22	1.82	0.44
2:AA:541:C:C2'	2:AA:542:C:H6	2.22	0.44
2:AA:592:G:HO2'	32:A8:3:LYS:HG3	1.81	0.44
2:AA:630:G:N1	2:AA:634:C:N4	2.66	0.44
2:AA:638:G:O2'	2:AA:639:U:C5'	2.57	0.44
2:AA:645:C:OP2	2:AA:2369:A:O4'	2.35	0.44
2:AA:679:C:H2'	2:AA:680:G:O5'	2.18	0.44
2:AA:706:A:C2'	2:AA:707:G:H5'	2.47	0.44
2:AA:720:C:H2'	2:AA:721:C:O4'	2.17	0.44
2:AA:917:A:C8	2:AA:917:A:H5''	2.53	0.44
2:AA:1068:G:C2	2:AA:1073:A:C2	3.06	0.44
2:AA:1073:A:OP2	2:AA:1094:U:O4	2.36	0.44
2:AA:1206:G:H1'	2:AA:1242:A:H61	1.81	0.44
2:AA:1215:G:H2'	2:AA:1216:G:O4'	2.18	0.44
2:AA:1243:G:C5	2:AA:1244:G:N7	2.86	0.44
2:AA:1255:U:H6	2:AA:2502:G:N2	2.15	0.44
2:AA:1300:U:O2	2:AA:1634:A:H1'	2.18	0.44
2:AA:1342:A:H5'	19:AT:53:ASN:OD1	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1576:U:C5	2:AA:1577:C:C4	2.90	0.44
2:AA:1682:G:OP1	2:AA:1699:G:N1	2.50	0.44
2:AA:1725:G:N1	2:AA:1735:C:C2	2.79	0.44
2:AA:1800:C:H1'	2:AA:1802:A:H1'	1.99	0.44
2:AA:1845:G:C2	2:AA:1896:G:C2	3.06	0.44
2:AA:1855:G:N2	2:AA:1887:C:C2	2.73	0.44
2:AA:1878:G:C2'	2:AA:1879:C:O5'	2.66	0.44
2:AA:1913:A:C8	2:AA:1918:A:C6	3.03	0.44
2:AA:2051:A:OP2	2:AA:2051:A:O4'	2.36	0.44
2:AA:2052:G:H5'	5:AE:239:GLY:N	2.15	0.44
2:AA:2100:G:O6	2:AA:2101:G:C6	2.70	0.44
2:AA:2120:G:C2	2:AA:2179:C:N3	2.85	0.44
2:AA:2320:A:H8	2:AA:2320:A:P	2.40	0.44
2:AA:2334:G:C2'	2:AA:2335:A:C5'	2.90	0.44
2:AA:2357:U:H2'	2:AA:2358:G:O5'	2.17	0.44
2:AA:2418:A:C6	2:AA:2419:U:N3	2.86	0.44
2:AA:2584:U:C2'	2:AA:2585:U:C5	3.01	0.44
2:AA:2657:A:C5	2:AA:2664:G:N2	2.85	0.44
2:AA:2682:U:O2	5:AE:61:PRO:HG3	2.17	0.44
2:AA:2711:A:OP1	2:AA:2712:U:O3'	2.35	0.44
2:AA:2779:U:H5''	2:AA:2780:G:C5'	2.46	0.44
2:AA:2873:A:O2'	2:AA:2874:C:P	2.74	0.44
3:AC:110:PHE:CD1	3:AC:110:PHE:C	2.96	0.44
4:AD:71:ASP:CG	4:AD:118:GLY:HA2	2.42	0.44
5:AE:86:TYR:CD1	5:AE:86:TYR:N	2.86	0.44
5:AE:99:VAL:C	5:AE:100:TRP:CD1	2.96	0.44
5:AE:217:TRP:CZ2	5:AE:251:PRO:CB	3.00	0.44
6:AF:20:ASP:O	6:AF:23:GLU:HB2	2.16	0.44
6:AF:68:ALA:O	6:AF:69:HIS:CG	2.70	0.44
6:AF:154:VAL:O	6:AF:157:LEU:CB	2.64	0.44
6:AF:194:PHE:HE1	6:AF:210:ALA:HA	1.82	0.44
7:AG:87:ALA:C	7:AG:89:PRO:N	2.74	0.44
7:AG:134:LEU:O	7:AG:139:TYR:CE2	2.70	0.44
8:AH:37:HIS:ND1	8:AH:37:HIS:N	2.63	0.44
9:AI:53:GLN:HA	9:AI:128:LYS:NZ	2.31	0.44
9:AJ:18:LEU:HD22	9:AJ:44:VAL:HB	1.98	0.44
9:AJ:52:ALA:HB1	9:AJ:58:GLU:CB	2.42	0.44
9:AJ:60:ASP:HB2	9:AJ:128:LYS:CE	2.47	0.44
9:AJ:110:GLU:O	9:AJ:114:ILE:HG13	2.18	0.44
10:AK:10:LYS:HG3	10:AK:11:GLY:N	2.32	0.44
10:AK:132:LYS:HG3	10:AK:132:LYS:H	1.51	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:108:PRO:HG2	12:AM:109:TYR:CE1	2.51	0.44
12:AM:108:PRO:CD	12:AM:109:TYR:N	2.79	0.44
14:AO:92:ASP:N	14:AO:118:LEU:CD2	2.80	0.44
14:AO:94:ARG:NE	14:AO:118:LEU:CB	2.76	0.44
15:AP:41:THR:CB	15:AP:126:VAL:HA	2.47	0.44
15:AP:94:ARG:HA	15:AP:107:LYS:O	2.18	0.44
15:AP:130:PRO:O	15:AP:134:PHE:CD2	2.70	0.44
16:AQ:11:ARG:HG3	16:AQ:12:ARG:CG	2.42	0.44
16:AQ:90:LEU:HG	16:AQ:90:LEU:H	1.53	0.44
19:AT:23:LYS:CA	19:AT:66:VAL:O	2.66	0.44
20:AU:17:HIS:O	20:AU:18:GLU:C	2.60	0.44
20:AU:81:LYS:CD	20:AU:83:ASP:OD1	2.65	0.44
21:AV:16:GLU:OE1	21:AV:16:GLU:HA	2.17	0.44
21:AV:26:LYS:O	21:AV:27:GLU:HB2	2.17	0.44
22:AW:48:GLU:O	22:AW:51:LYS:N	2.51	0.44
23:AX:25:ALA:C	23:AX:27:GLY:N	2.73	0.44
25:A1:56:ASP:O	25:A1:60:LEU:HD12	2.17	0.44
27:A3:24:LYS:O	27:A3:25:LYS:CB	2.66	0.44
27:A3:36:ILE:O	27:A3:37:LEU:HD23	2.18	0.44
28:A4:7:PRO:O	28:A4:60:ASN:ND2	2.51	0.44
30:A6:37:LEU:C	30:A6:38:LYS:HG3	2.43	0.44
31:A7:33:ARG:O	31:A7:37:LYS:CG	2.66	0.44
32:A8:29:LYS:CD	32:A8:36:LYS:NZ	2.58	0.44
33:A9:24:LEU:HD22	33:A9:35:ARG:HA	1.98	0.44
34:BA:147:G:C2	34:BA:176:C:C2	3.05	0.44
34:BA:246:A:HO2'	34:BA:247:G:P	2.41	0.44
34:BA:259:G:C2'	34:BA:260:G:O5'	2.66	0.44
34:BA:291:C:O2	34:BA:292:G:C8	2.70	0.44
34:BA:313:A:C6	34:BA:314:C:N4	2.85	0.44
34:BA:448:A:C5	34:BA:487:A:C2	3.06	0.44
34:BA:483:C:OP2	34:BA:484:G:H2'	2.17	0.44
34:BA:565:U:C6	34:BA:566:G:C8	3.05	0.44
34:BA:577:G:C1'	34:BA:816:A:N3	2.79	0.44
34:BA:606:G:C2	34:BA:631:G:C2	3.05	0.44
34:BA:659:U:O2'	34:BA:660:G:O5'	2.36	0.44
34:BA:731:G:H2'	34:BA:732:C:C6	2.52	0.44
34:BA:775:G:C4	34:BA:776:G:C8	3.04	0.44
34:BA:821:G:O2'	34:BA:822:C:C5'	2.65	0.44
34:BA:872:A:O2'	34:BA:873:A:C3'	2.60	0.44
34:BA:1026:G:N7	34:BA:1027:C:C6	2.85	0.44
34:BA:1080:A:H4'	40:BH:16:THR:HB	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1128:C:N3	34:BA:1144:G:C2	2.86	0.44
34:BA:1188:A:H4'	49:BQ:58:LYS:NZ	2.32	0.44
34:BA:1193:G:C6	34:BA:1194:U:C5	3.04	0.44
34:BA:1236:A:C5'	34:BA:1304:G:H5''	2.45	0.44
34:BA:1237:C:H1'	34:BA:1334:G:H21	1.81	0.44
34:BA:1288:A:C2	34:BA:1352:C:O2	2.68	0.44
34:BA:1418:A:N6	34:BA:1483:A:C5	2.85	0.44
34:BA:1523:G:C4	34:BA:1524:C:C5	3.05	0.44
35:BC:52:U:C2	35:BC:53:G:C8	3.05	0.44
36:B1:60:A:H2'	36:B1:61:U:O5'	2.17	0.44
37:BE:19:HIS:O	37:BE:39:ILE:HG23	2.18	0.44
37:BE:75:LYS:HD3	37:BE:75:LYS:HA	1.80	0.44
37:BE:142:LEU:C	37:BE:142:LEU:CD2	2.89	0.44
38:BF:88:ARG:NH2	38:BF:101:LEU:N	2.65	0.44
38:BF:94:LEU:C	38:BF:95:THR:HG23	2.42	0.44
38:BF:164:ARG:CG	38:BF:164:ARG:NH1	2.80	0.44
39:BG:55:ALA:C	39:BG:59:ARG:HG2	2.35	0.44
39:BG:170:VAL:CG2	39:BG:176:LEU:HD13	2.47	0.44
40:BH:27:ARG:C	40:BH:28:PHE:CD1	2.94	0.44
40:BH:141:GLN:CB	40:BH:143:ARG:NH2	2.80	0.44
41:BI:2:ARG:HH21	50:BR:2:PRO:HD2	1.83	0.44
41:BI:16:GLN:C	41:BI:18:GLN:N	2.75	0.44
41:BI:45:LEU:HD23	41:BI:59:TYR:N	2.33	0.44
41:BI:97:PHE:CD2	53:BU:31:LEU:HD12	2.49	0.44
43:BK:109:ILE:CG1	43:BK:137:VAL:O	2.54	0.44
44:BL:56:LEU:C	44:BL:56:LEU:HD23	2.43	0.44
45:BM:8:LEU:HD23	45:BM:95:GLU:O	2.16	0.44
46:BN:29:ILE:HG22	46:BN:44:SER:HB3	1.99	0.44
46:BN:63:LEU:HA	46:BN:63:LEU:HD23	1.74	0.44
46:BN:82:VAL:C	46:BN:83:ILE:HD12	2.42	0.44
47:BO:84:LEU:HB3	47:BO:104:VAL:CG1	2.46	0.44
47:BO:93:LEU:O	47:BO:94:PRO:O	2.36	0.44
48:BP:126:LYS:O	48:BP:126:LYS:HG2	2.18	0.44
50:BR:6:GLU:N	50:BR:6:GLU:CD	2.76	0.44
51:BS:4:ILE:HG13	51:BS:66:PRO:HA	1.99	0.44
51:BS:9:PHE:CZ	51:BS:18:ARG:NE	2.86	0.44
51:BS:39:TYR:CE2	51:BS:73:LEU:HD11	2.52	0.44
51:BS:55:ARG:HH21	51:BS:58:TYR:CB	2.30	0.44
51:BS:67:THR:C	51:BS:70:ALA:HB3	2.42	0.44
52:BT:15:MET:CB	52:BT:18:THR:CB	2.93	0.44
53:BU:51:LEU:H	53:BU:51:LEU:CD1	2.27	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:65:ILE:CG1	53:BU:66:LEU:N	2.80	0.44
54:BV:15:LEU:CG	54:BV:16:LEU:H	2.29	0.44
56:BX:20:LYS:HD2	56:BX:21:TYR:CE2	2.52	0.44
1:AB:25:A:C2'	1:AB:26:A:C5'	2.96	0.44
1:AB:32:C:N4	1:AB:51:G:N1	2.66	0.44
1:AB:50:G:N1	1:AB:51:G:C5	2.85	0.44
2:AA:81:G:O6	2:AA:82:G:C2	2.70	0.44
2:AA:123:G:N2	2:AA:124:G:N3	2.65	0.44
2:AA:164:U:C2	2:AA:171:G:H4'	2.45	0.44
2:AA:173:G:O2'	2:AA:174:C:O5'	2.34	0.44
2:AA:196:A:HO2'	2:AA:197:A:P	2.41	0.44
2:AA:200:U:C5	2:AA:201:C:C2	3.06	0.44
2:AA:289:A:N7	2:AA:350:U:O4	2.51	0.44
2:AA:312:G:OP2	2:AA:332:A:C5'	2.65	0.44
2:AA:329:G:H4'	2:AA:330:A:OP1	2.10	0.44
2:AA:332:A:C5	2:AA:335:C:C4	3.05	0.44
2:AA:342:G:O2'	2:AA:343:C:O4'	2.29	0.44
2:AA:372:G:O4'	28:A4:69:ARG:NH2	2.51	0.44
2:AA:459:U:H2'	2:AA:460:A:O5'	2.18	0.44
2:AA:489:G:N1	2:AA:491:G:C5	2.85	0.44
2:AA:535:C:O2'	2:AA:536:A:H5'	2.17	0.44
2:AA:563:G:N1	2:AA:564:C:C2	2.86	0.44
2:AA:570:G:OP1	2:AA:973:A:OP2	2.36	0.44
2:AA:583:G:H1	2:AA:1257:C:N4	2.09	0.44
2:AA:607:U:H2'	2:AA:608:A:H8	1.82	0.44
2:AA:685:A:C6	2:AA:774:A:C2	3.05	0.44
2:AA:722:A:O2'	2:AA:723:G:O5'	2.35	0.44
2:AA:752:A:N1	2:AA:1781:C:O2'	2.46	0.44
2:AA:818:G:N2	2:AA:1190:G:N1	2.66	0.44
2:AA:885:C:N3	2:AA:892:G:C2	2.86	0.44
2:AA:939:G:C2'	2:AA:940:G:O5'	2.66	0.44
2:AA:970:C:O2	2:AA:970:C:C2'	2.62	0.44
2:AA:1000:A:C2	2:AA:1155:A:C5	3.06	0.44
2:AA:1020:A:O2'	12:AM:49:ARG:NH1	2.50	0.44
2:AA:1040:C:C2	2:AA:1115:G:C2	3.06	0.44
2:AA:1057:A:C8	2:AA:1085:A:C2	3.06	0.44
2:AA:1075:C:O2	2:AA:1075:C:H2'	2.17	0.44
2:AA:1224:G:O2'	2:AA:1225:C:H5'	2.17	0.44
2:AA:1229:G:O6	2:AA:1230:C:O2	2.35	0.44
2:AA:1257:C:H2'	2:AA:1258:C:H5'	1.99	0.44
2:AA:1266:G:H2'	2:AA:1267:U:OP2	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1293:C:O2	2:AA:1294:U:C6	2.70	0.44
2:AA:1297:C:P	2:AA:2710:C:H4'	2.58	0.44
2:AA:1314:C:O5'	2:AA:1314:C:H6	2.00	0.44
2:AA:1395:A:C2	2:AA:1398:C:C6	3.05	0.44
2:AA:1423:G:N2	2:AA:1424:G:N3	2.66	0.44
2:AA:1429:G:O4'	2:AA:1568:G:H1'	2.18	0.44
2:AA:1498:C:C2	2:AA:1499:C:C5	3.04	0.44
2:AA:1506:C:N4	2:AA:1507:A:C8	2.86	0.44
2:AA:1525:G:H2'	2:AA:1526:G:H8	1.81	0.44
2:AA:1645:G:C5'	2:AA:1646:C:O4'	2.60	0.44
2:AA:1650:G:C6	2:AA:2008:C:C2	3.05	0.44
2:AA:1665:A:N1	2:AA:1666:G:C5	2.85	0.44
2:AA:1666:G:O2'	13:AN:6:SER:HB3	2.18	0.44
2:AA:1835:G:C2	2:AA:1836:C:C5	3.06	0.44
2:AA:1840:G:N2	2:AA:1841:U:C1'	2.81	0.44
2:AA:1901:A:N3	2:AA:1901:A:H2'	2.32	0.44
2:AA:1908:C:O2'	2:AA:1909:C:C5'	2.65	0.44
2:AA:1968:G:O2'	2:AA:1969:A:O5'	2.34	0.44
2:AA:1998:G:C5	2:AA:1999:C:C5	3.06	0.44
2:AA:2006:C:H4'	2:AA:2048:G:H4'	1.99	0.44
2:AA:2116:G:P	3:AC:126:LYS:CB	3.03	0.44
2:AA:2126:A:OP2	2:AA:2126:A:O4'	2.36	0.44
2:AA:2215:G:H2'	2:AA:2216:G:O4'	2.18	0.44
2:AA:2239:G:C4	2:AA:2240:C:C5	3.06	0.44
2:AA:2246:G:C2	2:AA:2247:A:C6	3.05	0.44
2:AA:2303:G:H4'	7:AG:99:ASP:HB2	1.99	0.44
2:AA:2391:G:N2	2:AA:2424:C:O2	2.50	0.44
2:AA:2414:G:C4	2:AA:2415:G:C8	3.06	0.44
2:AA:2465:C:N3	2:AA:2485:G:C6	2.83	0.44
2:AA:2489:G:C2'	2:AA:2490:G:O4'	2.65	0.44
2:AA:2491:U:H5'	2:AA:2570:G:C4'	2.46	0.44
2:AA:2588:G:O6	2:AA:2589:A:C6	2.70	0.44
2:AA:2618:G:C4	2:AA:2619:C:C5	3.06	0.44
2:AA:2789:C:HO2'	2:AA:2790:A:P	2.40	0.44
2:AA:2795:G:C2'	2:AA:2797:U:O5'	2.66	0.44
2:AA:2805:G:C8	2:AA:2807:G:C1'	3.00	0.44
2:AA:2888:C:N3	2:AA:2889:C:C5	2.85	0.44
3:AC:42:GLU:CD	3:AC:173:ALA:C	2.86	0.44
3:AC:100:ILE:HG23	3:AC:127:LEU:HG	1.99	0.44
4:AD:114:GLU:O	4:AD:115:ILE:HG23	2.16	0.44
4:AD:118:GLY:O	4:AD:129:LEU:HD21	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:210:LYS:HE2	4:AD:211:HIS:HD2	1.82	0.44
6:AF:50:GLU:H	6:AF:50:GLU:HG3	1.32	0.44
6:AF:100:LEU:O	6:AF:101:ASP:C	2.60	0.44
6:AF:193:LEU:HD11	6:AF:231:ARG:CD	2.47	0.44
6:AF:215:ALA:O	6:AF:242:GLU:CG	2.65	0.44
8:AH:43:THR:HG23	8:AH:52:THR:HG23	2.00	0.44
8:AH:66:THR:HG22	8:AH:67:THR:H	1.83	0.44
8:AH:138:GLN:O	8:AH:142:GLU:CD	2.61	0.44
9:AI:73:VAL:CA	9:AI:121:ALA:HB1	2.35	0.44
10:AK:81:ALA:C	10:AK:89:LEU:CD2	2.90	0.44
11:AL:18:ALA:HB1	11:AL:39:CYS:CA	2.48	0.44
11:AL:113:MET:O	11:AL:116:LEU:HB3	2.17	0.44
12:AM:103:VAL:O	12:AM:104:TYR:CG	2.70	0.44
14:AO:114:VAL:HG21	14:AO:132:LYS:C	2.43	0.44
15:AP:48:ASN:CG	15:AP:122:PHE:H	2.24	0.44
15:AP:142:LYS:CE	15:AP:143:VAL:HA	2.41	0.44
16:AQ:12:ARG:NE	16:AQ:20:TYR:OH	2.51	0.44
18:AS:11:ARG:NE	18:AS:82:LEU:HD21	2.32	0.44
18:AS:66:GLU:OE2	18:AS:67:ASP:HB3	2.18	0.44
19:AT:46:ASP:HB2	19:AT:47:VAL:H	1.60	0.44
19:AT:55:GLN:HG2	19:AT:56:ASN:O	2.18	0.44
20:AU:5:ASP:C	20:AU:7:GLN:N	2.71	0.44
21:AV:20:ALA:HB1	21:AV:32:PHE:CG	2.52	0.44
22:AW:60:GLN:C	22:AW:60:GLN:CD	2.85	0.44
23:AX:1:MET:H3	23:AX:2:PRO:HD3	1.80	0.44
23:AX:37:LEU:HD12	23:AX:43:ILE:HG23	2.00	0.44
23:AX:53:LEU:O	23:AX:54:VAL:HG12	2.18	0.44
26:A2:15:SER:CB	26:A2:99:GLN:NE2	2.80	0.44
27:A3:5:LYS:HZ3	35:BC:3:G:H5''	1.81	0.44
28:A4:35:VAL:CG1	28:A4:36:TRP:N	2.80	0.44
28:A4:57:ASP:HA	28:A4:61:LYS:CE	2.45	0.44
30:A6:22:TYR:CD1	30:A6:22:TYR:N	2.85	0.44
32:A8:58:MET:O	32:A8:61:MET:HB2	2.17	0.44
34:BA:89:C:H2'	34:BA:90:U:O4'	2.18	0.44
34:BA:133:U:N3	34:BA:230:G:C2	2.86	0.44
34:BA:248:C:HO2'	34:BA:283:C:H4'	1.82	0.44
34:BA:321:A:N1	34:BA:322:C:C4	2.86	0.44
34:BA:579:G:C6	34:BA:580:U:C5	3.06	0.44
34:BA:608:A:C2	34:BA:609:A:C1'	3.01	0.44
34:BA:626:U:C2	34:BA:627:G:N7	2.85	0.44
34:BA:650:G:O2'	34:BA:651:C:C5'	2.63	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:674:G:H4'	53:BU:81:PHE:HZ	1.83	0.44
34:BA:739:C:H2'	34:BA:739:C:O2	2.16	0.44
34:BA:790:A:C6	34:BA:791:G:C5	3.06	0.44
34:BA:946:A:N3	34:BA:947:G:N7	2.65	0.44
34:BA:1085:U:H6	34:BA:1094:G:N2	2.15	0.44
34:BA:1088:G:N3	34:BA:1088:G:H2'	2.32	0.44
34:BA:1104:G:H2'	34:BA:1105:A:C5'	2.48	0.44
34:BA:1267:C:H3'	34:BA:1267:C:C6	2.51	0.44
34:BA:1326:C:C2	34:BA:1327:C:C6	3.05	0.44
34:BA:1336:C:O4'	34:BA:1337:G:C2	2.71	0.44
34:BA:1369:C:H2'	34:BA:1370:G:C8	2.52	0.44
34:BA:1386:G:C2	34:BA:1387:G:C8	3.05	0.44
34:BA:1414:U:C2	34:BA:1415:G:C8	3.05	0.44
34:BA:1419:G:N2	34:BA:1420:C:O2	2.49	0.44
35:BB:2:C:C4	35:BB:71:G:N1	2.80	0.44
37:BE:28:PHE:O	37:BE:29:ALA:C	2.61	0.44
37:BE:28:PHE:O	37:BE:31:TYR:HB2	2.18	0.44
39:BG:9:CYS:O	39:BG:13:ARG:HG2	2.18	0.44
39:BG:42:GLN:C	39:BG:43:HIS:CG	2.95	0.44
40:BH:151:LEU:HD22	43:BK:65:TYR:C	2.41	0.44
41:BI:1:MET:SD	41:BI:68:PRO:N	2.91	0.44
42:BJ:76:ARG:CG	42:BJ:89:MET:SD	3.05	0.44
42:BJ:85:TYR:O	42:BJ:87:VAL:HG23	2.16	0.44
43:BK:36:LEU:HA	43:BK:39:LEU:CB	2.43	0.44
43:BK:40:ALA:O	43:BK:41:ARG:C	2.61	0.44
43:BK:69:ARG:HG3	43:BK:69:ARG:HH11	1.83	0.44
44:BL:5:TYR:CE2	44:BL:18:PHE:CZ	3.06	0.44
46:BN:21:ILE:HA	46:BN:30:VAL:HG22	1.99	0.44
47:BO:36:VAL:O	47:BO:58:VAL:HA	2.17	0.44
48:BP:34:LEU:O	48:BP:35:GLU:C	2.60	0.44
48:BP:77:ASN:CB	48:BP:80:ARG:NH1	2.64	0.44
49:BQ:45:ARG:O	49:BQ:49:HIS:HD2	2.00	0.44
50:BR:66:LEU:C	50:BR:68:ARG:N	2.75	0.44
50:BR:81:LEU:O	50:BR:84:LYS:N	2.50	0.44
51:BS:32:TYR:HE2	51:BS:35:LYS:HD3	1.82	0.44
53:BU:75:ILE:C	53:BU:77:GLY:H	2.24	0.44
55:BW:45:GLN:HG2	55:BW:91:LEU:CD2	2.41	0.44
1:AB:88:C:H6	1:AB:88:C:O5'	2.00	0.44
1:AB:118:G:C2'	1:AB:119:A:O5'	2.65	0.44
2:AA:55:G:N3	2:AA:56:A:C8	2.85	0.44
2:AA:58:G:C4	2:AA:73:A:C2	3.05	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:154:G:C6	2:AA:155:C:O2	2.71	0.44
2:AA:226:G:C2	2:AA:227:A:C4	3.04	0.44
2:AA:237:C:C4	2:AA:238:C:H5	2.32	0.44
2:AA:242:G:O2'	2:AA:243:U:OP2	2.35	0.44
2:AA:270(M):U:O2	2:AA:270(M):U:C3'	2.66	0.44
2:AA:287:C:C2'	2:AA:288:C:H5'	2.48	0.44
2:AA:311:A:C3'	2:AA:312:G:C8	2.99	0.44
2:AA:603:A:N1	2:AA:625:G:C5	2.85	0.44
2:AA:617:G:OP1	6:AF:221:GLU:CD	2.61	0.44
2:AA:625:G:H3'	2:AA:626:U:C5'	2.47	0.44
2:AA:668:G:C2	2:AA:670:A:C5	3.05	0.44
2:AA:695:G:C2	2:AA:696:G:C8	3.06	0.44
2:AA:699:A:H62	2:AA:733:G:H21	1.65	0.44
2:AA:818:G:N7	2:AA:1187:G:C2	2.85	0.44
2:AA:836:G:C6	2:AA:837:C:N3	2.85	0.44
2:AA:940:G:C2	2:AA:941:A:H8	2.34	0.44
2:AA:1164:G:C5	2:AA:1165:U:C5	3.06	0.44
2:AA:1186:G:C2'	2:AA:1187:G:H8	2.29	0.44
2:AA:1189:A:H3'	2:AA:1190:G:C5'	2.47	0.44
2:AA:1255:U:O2	2:AA:1255:U:C2'	2.60	0.44
2:AA:1263:U:C6	2:AA:1264:G:C6	3.06	0.44
2:AA:1399:C:P	19:AT:67:ARG:NH2	2.91	0.44
2:AA:1405:U:HO2'	2:AA:1406:U:C5'	2.31	0.44
2:AA:1408:C:H2'	2:AA:1409:C:C6	2.53	0.44
2:AA:1414:G:C4	2:AA:1415:U:C4	3.06	0.44
2:AA:1483:G:C6	2:AA:1484:G:C8	3.06	0.44
2:AA:1500:G:O2'	4:AD:98:GLY:HA3	2.18	0.44
2:AA:1536:A:O2'	2:AA:1537:C:OP1	2.33	0.44
2:AA:1555:G:O4'	2:AA:1555:G:P	2.76	0.44
2:AA:1577:C:P	2:AA:1577:C:O4'	2.76	0.44
2:AA:1588:C:O2'	2:AA:1589:C:C5'	2.58	0.44
2:AA:1591:G:C2	2:AA:1592:C:N3	2.86	0.44
2:AA:1642:G:H2'	2:AA:1643:G:O5'	2.18	0.44
2:AA:1649:G:H1	2:AA:2008:C:H42	1.66	0.44
2:AA:1668:A:C2	2:AA:1670:C:C4	3.05	0.44
2:AA:1766:U:H3	2:AA:1986:A:N6	2.16	0.44
2:AA:1848:A:C4	34:BA:702:A:C2	3.06	0.44
2:AA:1935:G:N3	2:AA:1962:C:N3	2.65	0.44
2:AA:1955:U:H2'	2:AA:1956:U:OP1	2.17	0.44
2:AA:1961:C:H2'	2:AA:1962:C:C4'	2.48	0.44
2:AA:1975:G:H2'	2:AA:1976:U:O5'	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2022:U:O2'	2:AA:2023:G:P	2.75	0.44
2:AA:2033:A:O2'	2:AA:2034:U:OP1	2.36	0.44
2:AA:2049:G:O2'	2:AA:2050:C:OP1	2.36	0.44
2:AA:2054:A:H62	2:AA:2577:A:H61	1.65	0.44
2:AA:2132:U:OP2	3:AC:5:LYS:HB3	2.18	0.44
2:AA:2211:G:O5'	2:AA:2211:G:C8	2.70	0.44
2:AA:2218:G:C4'	4:AD:184:LEU:HD13	2.48	0.44
2:AA:2234:G:C2'	2:AA:2235:G:H5'	2.47	0.44
2:AA:2246:G:O2'	2:AA:2247:A:O5'	2.36	0.44
2:AA:2291:U:H4'	2:AA:2380:C:O2	2.18	0.44
2:AA:2308:G:H5'	2:AA:2309:A:P	2.55	0.44
2:AA:2355:C:N4	2:AA:2362:G:N1	2.22	0.44
2:AA:2386:C:H1'	27:A3:39:ARG:HH21	1.81	0.44
2:AA:2457:U:O4	2:AA:2458:G:N1	2.51	0.44
2:AA:2589:A:C5	2:AA:2590:A:C8	3.05	0.44
2:AA:2606:C:O2	2:AA:2607:G:C8	2.71	0.44
2:AA:2633:G:C5'	2:AA:2812:G:H5'	2.47	0.44
2:AA:2653:U:C3'	2:AA:2654:A:C8	2.98	0.44
2:AA:2682:U:O2'	5:AE:61:PRO:HD3	2.18	0.44
2:AA:2693:A:C2	2:AA:2717:G:C6	3.05	0.44
2:AA:2698:U:O2	2:AA:2709:G:O6	2.35	0.44
2:AA:2735:G:N1	2:AA:2736:G:C5	2.86	0.44
2:AA:2745:C:H2'	8:AH:142:GLU:OE2	2.17	0.44
2:AA:2747:G:O2'	2:AA:2748:A:H5''	2.18	0.44
2:AA:2795:G:O2'	2:AA:2797:U:C6	2.66	0.44
3:AC:10:LEU:HA	3:AC:10:LEU:HD12	1.69	0.44
3:AC:118:ASP:C	3:AC:119:VAL:HG13	2.42	0.44
3:AC:148:ASN:CB	3:AC:151:GLU:HB2	2.48	0.44
4:AD:68:ARG:HH21	4:AD:190:THR:HG22	1.82	0.44
4:AD:139:LEU:O	4:AD:139:LEU:HD13	2.14	0.44
4:AD:167:GLU:CB	4:AD:170:TYR:HE1	2.11	0.44
4:AD:168:GLY:HA3	4:AD:170:TYR:CZ	2.52	0.44
5:AE:87:GLU:OE1	5:AE:96:LEU:CB	2.64	0.44
5:AE:200:ASP:HA	5:AE:266:LYS:HB2	2.00	0.44
5:AE:205:THR:CG2	5:AE:259:HIS:N	2.81	0.44
5:AE:220:GLN:HE22	5:AE:223:LYS:NZ	2.15	0.44
5:AE:315:VAL:O	5:AE:317:PRO:N	2.51	0.44
6:AF:207:LEU:C	6:AF:209:GLY:N	2.74	0.44
7:AG:105:SER:OG	7:AG:131:THR:CG2	2.63	0.44
8:AH:59:HIS:O	8:AH:61:ARG:N	2.51	0.44
8:AH:106:VAL:O	8:AH:108:TYR:CE2	2.70	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:144:ALA:O	8:AH:145:ALA:C	2.58	0.44
9:AI:112:GLU:O	9:AI:116:LYS:HG3	2.18	0.44
9:AJ:23:LYS:O	9:AJ:27:ASP:OD1	2.36	0.44
9:AJ:74:ILE:CG1	9:AJ:92:VAL:HG11	2.47	0.44
10:AK:7:LYS:HA	10:AK:12:LYS:O	2.18	0.44
10:AK:8:ASP:O	10:AK:10:LYS:HG2	2.18	0.44
10:AK:8:ASP:HB3	10:AK:9:VAL:H	1.35	0.44
11:AL:19:THR:N	11:AL:20:PRO:CD	2.72	0.44
11:AL:73:PRO:CG	11:AL:78:LEU:HD11	2.45	0.44
12:AM:98:PHE:O	12:AM:99:GLU:C	2.56	0.44
12:AM:101:VAL:O	12:AM:101:VAL:HG12	2.17	0.44
13:AN:62:VAL:HA	13:AN:84:CYS:SG	2.57	0.44
14:AO:54:PRO:O	14:AO:55:GLN:HB2	2.17	0.44
14:AO:70:ASP:OD2	14:AO:115:ARG:HB2	2.17	0.44
15:AP:41:THR:C	15:AP:125:TRP:HZ3	2.23	0.44
16:AQ:32:PRO:CD	16:AQ:101:VAL:HG12	2.45	0.44
17:AR:21:PHE:O	17:AR:22:VAL:HG13	2.17	0.44
18:AS:97:LYS:HB3	18:AS:99:ARG:CD	2.47	0.44
20:AU:77:VAL:CG1	20:AU:91:LEU:HD22	2.48	0.44
21:AV:34:LEU:HD21	21:AV:83:PHE:CZ	2.52	0.44
21:AV:137:ASP:C	21:AV:139:THR:N	2.74	0.44
22:AW:19:GLU:OE2	22:AW:23:LEU:CD1	2.65	0.44
24:A0:29:LEU:CB	24:A0:75:LEU:HD11	2.48	0.44
24:A0:63:ARG:O	24:A0:64:ARG:C	2.60	0.44
25:A1:20:ARG:NH1	26:A2:75:LYS:CG	2.81	0.44
26:A2:6:GLN:NE2	26:A2:10:LYS:HG2	2.32	0.44
26:A2:16:GLU:O	26:A2:18:ASP:N	2.51	0.44
26:A2:49:GLU:CB	26:A2:53:LYS:HD2	2.44	0.44
27:A3:39:ARG:HG2	27:A3:39:ARG:NH1	2.32	0.44
28:A4:16:TYR:C	28:A4:17:GLN:HG3	2.34	0.44
30:A6:19:GLY:CA	30:A6:44:ALA:CB	2.95	0.44
33:A9:25:VAL:HG23	33:A9:34:GLN:HB3	1.99	0.44
33:A9:29:ASN:O	33:A9:30:VAL:C	2.60	0.44
34:BA:27:G:N1	34:BA:557:G:C2	2.86	0.44
34:BA:38:G:C5	34:BA:397:A:C2	3.06	0.44
34:BA:43:C:C2	34:BA:44:G:H8	2.32	0.44
34:BA:78:G:N1	34:BA:92:C:C4	2.85	0.44
34:BA:119:A:H4'	34:BA:120:A:C8	2.53	0.44
34:BA:193:C:C2'	34:BA:194:C:C6	2.89	0.44
34:BA:203:U:C4'	34:BA:204:U:OP1	2.65	0.44
34:BA:299:G:C2'	34:BA:300:A:N7	2.76	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:321:A:N7	34:BA:328:C:C5	2.85	0.44
34:BA:328:C:HO2'	34:BA:329:A:P	2.39	0.44
34:BA:370:C:H2'	34:BA:371:G:C8	2.50	0.44
34:BA:462:G:N1	34:BA:463:A:C5	2.85	0.44
34:BA:495:U:C2'	34:BA:496:A:O5'	2.66	0.44
34:BA:517:G:HO2'	34:BA:530:G:H4'	1.66	0.44
34:BA:551:U:H4'	47:BO:119:LYS:HE2	2.00	0.44
34:BA:591:U:H3	34:BA:648:A:N6	2.13	0.44
34:BA:625:G:OP1	51:BS:9:PHE:CB	2.33	0.44
34:BA:642:A:C2	43:BK:114:THR:HA	2.53	0.44
34:BA:662:G:N1	34:BA:663:A:C2	2.86	0.44
34:BA:881:G:H2'	34:BA:882:C:H6	1.82	0.44
34:BA:1083:U:C4	34:BA:1084:G:C6	3.06	0.44
34:BA:1127:G:O2'	34:BA:1148:U:N3	2.50	0.44
34:BA:1154:G:C2	34:BA:1155:G:C5	3.05	0.44
34:BA:1235:U:OP1	56:BX:3:LYS:HD2	2.15	0.44
34:BA:1292:U:OP2	34:BA:1292:U:H3'	2.18	0.44
34:BA:1319:A:P	54:BV:5:LEU:HD22	2.57	0.44
34:BA:1348:U:O2'	44:BL:120:ARG:HD2	2.18	0.44
34:BA:1355:G:H2'	34:BA:1356:G:O5'	2.18	0.44
34:BA:1360:A:C2	34:BA:1361:G:N3	2.86	0.44
34:BA:1417:G:C5	34:BA:1482:G:O6	2.70	0.44
34:BA:1426:C:C2'	34:BA:1427:U:O5'	2.65	0.44
34:BA:1538:C:H2'	34:BA:1539:C:O4'	2.17	0.44
35:BB:51:G:C4	35:BB:52:U:C4	3.06	0.44
35:BB:53:G:C2	35:BB:54:U:C5	3.06	0.44
35:BB:56:C:H6	35:BB:56:C:C5'	2.31	0.44
37:BE:25:ASN:OD1	37:BE:192:SER:O	2.36	0.44
37:BE:97:TRP:HE3	37:BE:172:ILE:HD12	1.81	0.44
37:BE:219:VAL:O	37:BE:222:ILE:HG12	2.17	0.44
38:BF:23:TYR:CZ	45:BM:11:PHE:CE2	3.05	0.44
38:BF:58:GLU:O	38:BF:59:ARG:CB	2.65	0.44
38:BF:69:HIS:C	38:BF:70:VAL:HG23	2.43	0.44
38:BF:203:PHE:C	38:BF:204:LEU:HD23	2.43	0.44
39:BG:104:VAL:HG11	39:BG:146:ILE:CD1	2.48	0.44
39:BG:157:LEU:O	39:BG:160:GLN:HB2	2.18	0.44
43:BK:63:LEU:O	43:BK:64:LYS:HB2	2.16	0.44
44:BL:78:LYS:HE3	44:BL:101:PHE:HE2	1.82	0.44
45:BM:27:ALA:HB1	45:BM:81:THR:CG2	2.48	0.44
46:BN:102:GLY:O	46:BN:105:VAL:HG22	2.18	0.44
49:BQ:37:PHE:HB3	49:BQ:39:LEU:HG	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BS:18:ARG:HH11	51:BS:35:LYS:HD3	1.83	0.44
51:BS:26:ARG:HD2	51:BS:31:LYS:N	2.32	0.44
51:BS:53:VAL:O	51:BS:56:ALA:HB3	2.17	0.44
53:BU:51:LEU:HA	53:BU:52:PRO:HD2	1.72	0.44
54:BV:5:LEU:HD23	54:BV:5:LEU:N	2.32	0.44
55:BW:50:GLU:HB2	55:BW:99:LEU:HB3	2.00	0.44
1:AB:96:G:N1	1:AB:97:G:C5	2.85	0.44
2:AA:85:G:H2'	2:AA:86:C:C6	2.52	0.44
2:AA:131:G:C2	2:AA:149:A:N1	2.86	0.44
2:AA:225:A:C2	2:AA:230:U:N3	2.86	0.44
2:AA:270(T):G:N3	2:AA:270(T):G:H2'	2.33	0.44
2:AA:285:C:C1'	2:AA:356:G:H22	2.30	0.44
2:AA:447:A:C5	2:AA:473:G:N7	2.86	0.44
2:AA:460:A:C6	2:AA:470:A:C8	3.05	0.44
2:AA:462:C:C2'	2:AA:463:G:H5'	2.38	0.44
2:AA:511:U:C4	2:AA:512:G:H1'	2.52	0.44
2:AA:573:G:C2'	2:AA:574:C:O5'	2.66	0.44
2:AA:638:G:C2'	2:AA:639:U:C5'	2.96	0.44
2:AA:770:G:C5'	31:A7:10:ARG:NH1	2.72	0.44
2:AA:783:A:O2'	2:AA:784:A:H5'	2.17	0.44
2:AA:797:C:C6	2:AA:797:C:H3'	2.52	0.44
2:AA:870:A:N6	2:AA:907:U:N3	2.27	0.44
2:AA:976:C:C5'	2:AA:1156:A:H61	2.19	0.44
2:AA:1011:G:N1	2:AA:1150:C:C2	2.78	0.44
2:AA:1014:U:OP1	2:AA:1142:U:O2	2.35	0.44
2:AA:1022:G:O2'	2:AA:1023:U:C5	2.70	0.44
2:AA:1056:G:H21	2:AA:1104:C:N4	2.15	0.44
2:AA:1062:G:O6	2:AA:1077:A:C4	2.70	0.44
2:AA:1077:A:C5	2:AA:1078:U:C2	3.06	0.44
2:AA:1122:G:N2	2:AA:1123:C:C4	2.86	0.44
2:AA:1197:G:N1	2:AA:1198:U:C5	2.85	0.44
2:AA:1268:A:C8	2:AA:2013:A:N6	2.86	0.44
2:AA:1309:G:H4'	31:A7:7:PRO:O	2.18	0.44
2:AA:1414:G:C5	2:AA:1415:U:O4	2.71	0.44
2:AA:1422:G:C2	2:AA:1423:G:C8	3.05	0.44
2:AA:1451:C:C6	2:AA:1451:C:C3'	3.00	0.44
2:AA:1491:G:H2'	2:AA:1492:G:OP2	2.18	0.44
2:AA:1529:A:N3	2:AA:1530:G:C4'	2.81	0.44
2:AA:1565:C:C4	2:AA:1567:A:C8	3.05	0.44
2:AA:1592:C:O2'	2:AA:1593:G:H5'	2.16	0.44
2:AA:1612:C:H2'	31:A7:3:ARG:CZ	2.43	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1614:A:N3	2:AA:1614:A:C2'	2.80	0.44
2:AA:1650:G:C5'	24:A0:104:ARG:NH2	2.76	0.44
2:AA:1734:C:H2'	2:AA:1735:C:O4'	2.17	0.44
2:AA:1829:A:H5''	2:AA:1830:C:C5	2.51	0.44
2:AA:1848:A:C6	34:BA:702:A:N1	2.86	0.44
2:AA:1930:G:C8	2:AA:1930:G:H3'	2.53	0.44
2:AA:2000:G:C6	2:AA:2001:A:C6	3.06	0.44
2:AA:2019:A:C2'	2:AA:2020:A:C5'	2.95	0.44
2:AA:2127:G:C5	2:AA:2174:C:C5	3.05	0.44
2:AA:2199:A:N3	2:AA:2225:A:H2	2.13	0.44
2:AA:2212:A:H2	2:AA:2213:U:H3'	1.83	0.44
2:AA:2269:A:O2'	2:AA:2270:G:H5'	2.18	0.44
2:AA:2303:G:H2'	2:AA:2304:G:H8	1.81	0.44
2:AA:2333:A:C1'	2:AA:2335:A:N3	2.81	0.44
2:AA:2336:A:O2'	2:AA:2337:G:OP1	2.33	0.44
2:AA:2408:U:O2'	2:AA:2409:G:H5'	2.17	0.44
2:AA:2432:A:C2	2:AA:2433:A:C4	3.06	0.44
2:AA:2462:U:C2	2:AA:2463:C:C5	3.06	0.44
2:AA:2513:G:C6	2:AA:2514:U:C4	3.06	0.44
2:AA:2539:C:H2'	2:AA:2540:C:O5'	2.18	0.44
2:AA:2566:A:O4'	2:AA:2566:A:P	2.76	0.44
2:AA:2636:U:O2'	2:AA:2637:U:O5'	2.36	0.44
2:AA:2657:A:C6	2:AA:2665:A:N7	2.86	0.44
2:AA:2674:G:C6	2:AA:2675:A:C6	3.06	0.44
2:AA:2740:A:C6	2:AA:2764:A:C4	3.06	0.44
2:AA:2770:G:O2'	5:AE:316:ARG:NH2	2.48	0.44
2:AA:2771:C:C2	2:AA:2772:C:C5	3.06	0.44
2:AA:2784:C:O2	5:AE:98:GLU:OE1	2.35	0.44
2:AA:2789:C:HO2'	2:AA:2893:G:H22	1.65	0.44
3:AC:76:ALA:CB	3:AC:86:ALA:CB	2.88	0.44
4:AD:66:PHE:O	4:AD:67:LYS:CB	2.66	0.44
4:AD:140:VAL:HA	4:AD:191:VAL:HG12	1.99	0.44
4:AD:143:ILE:CB	4:AD:153:LEU:HB2	2.47	0.44
5:AE:107:GLU:C	5:AE:109:ASP:H	2.26	0.44
5:AE:176:HIS:O	5:AE:179:ASP:N	2.51	0.44
5:AE:213:PRO:O	5:AE:214:VAL:O	2.36	0.44
6:AF:19:PRO:HB2	6:AF:21:VAL:HG23	2.00	0.44
6:AF:38:ALA:HB2	6:AF:221:GLU:CG	2.45	0.44
6:AF:38:ALA:HB1	6:AF:221:GLU:HG2	1.97	0.44
6:AF:230:GLY:O	6:AF:231:ARG:HG3	2.17	0.44
8:AH:41:THR:CA	8:AH:52:THR:OG1	2.66	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:43:THR:OG1	8:AH:43:THR:O	2.36	0.44
8:AH:151:ARG:CA	8:AH:161:ILE:HD11	2.48	0.44
9:AJ:63:LEU:HD13	9:AJ:66:PHE:HZ	1.81	0.44
9:AJ:63:LEU:HB3	9:AJ:95:ALA:HB1	1.99	0.44
9:AJ:64:LYS:O	9:AJ:65:SER:HB3	2.18	0.44
11:AL:11:LEU:HD21	11:AL:28:LEU:CD2	2.48	0.44
11:AL:12:GLN:O	11:AL:13:LEU:CD2	2.64	0.44
12:AM:5:GLU:O	12:AM:6:PHE:CG	2.71	0.44
12:AM:26:VAL:HG11	12:AM:83:ILE:CG2	2.48	0.44
12:AM:45:VAL:C	12:AM:131:THR:O	2.61	0.44
14:AO:117:GLU:O	14:AO:118:LEU:CD2	2.52	0.44
16:AQ:41:LYS:HZ2	16:AQ:68:GLU:CD	2.26	0.44
16:AQ:49:THR:H	16:AQ:55:ASP:CB	2.31	0.44
17:AR:9:CYS:C	17:AR:11:THR:H	2.25	0.44
18:AS:8:ARG:NH1	18:AS:8:ARG:HB2	2.33	0.44
18:AS:69:LEU:HB3	18:AS:107:LEU:HD22	1.99	0.44
18:AS:89:ALA:N	18:AS:92:ARG:N	2.66	0.44
19:AT:29:ASP:O	19:AT:30:ASP:OD2	2.36	0.44
20:AU:28:SER:CB	20:AU:99:THR:HG23	2.41	0.44
20:AU:63:ILE:CG1	20:AU:75:GLU:OE2	2.66	0.44
21:AV:19:ILE:CD1	21:AV:79:ILE:HG12	2.48	0.44
21:AV:76:ARG:HA	21:AV:76:ARG:HD2	1.86	0.44
21:AV:92:VAL:O	21:AV:94:VAL:N	2.51	0.44
21:AV:118:HIS:O	21:AV:120:LEU:HD23	2.18	0.44
24:A0:50:HIS:ND1	24:A0:54:LEU:HD11	2.32	0.44
24:A0:114:VAL:CG1	24:A0:115:GLU:N	2.81	0.44
25:A1:47:TYR:CE2	25:A1:50:ARG:NH1	2.86	0.44
25:A1:107:LYS:O	25:A1:110:VAL:N	2.51	0.44
26:A2:60:VAL:O	26:A2:98:ILE:O	2.36	0.44
26:A2:65:ARG:HH11	26:A2:94:LYS:NZ	2.10	0.44
26:A2:76:SER:OG	26:A2:84:THR:C	2.60	0.44
27:A3:7:VAL:HG22	35:BC:64:A:OP1	2.17	0.44
27:A3:55:ARG:CZ	27:A3:55:ARG:HB3	2.34	0.44
28:A4:31:ILE:O	28:A4:32:HIS:ND1	2.51	0.44
29:A5:40:LYS:HZ3	29:A5:45:ILE:C	2.26	0.44
31:A7:21:ARG:CZ	31:A7:43:THR:N	2.81	0.44
31:A7:29:ASN:O	31:A7:30:ILE:C	2.59	0.44
34:BA:22:G:H4'	34:BA:885:G:C1'	2.47	0.44
34:BA:58:C:C6	34:BA:58:C:C4'	3.00	0.44
34:BA:127:G:N2	34:BA:235:C:C2	2.85	0.44
34:BA:203:U:C6	34:BA:203:U:OP2	2.71	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:241:C:H2'	34:BA:242:C:O5'	2.17	0.44
34:BA:258:G:H2'	34:BA:259:G:H8	1.82	0.44
34:BA:380:G:N2	34:BA:383:A:C8	2.81	0.44
34:BA:484:G:O2'	34:BA:485:G:P	2.76	0.44
34:BA:530:G:N1	35:BB:34:G:N3	2.66	0.44
34:BA:560:U:P	34:BA:566:G:H22	2.41	0.44
34:BA:582:U:H5'	50:BR:64:ARG:HH21	1.74	0.44
34:BA:607:A:H2'	34:BA:608:A:O4'	2.18	0.44
34:BA:656:C:O5'	34:BA:656:C:H6	2.01	0.44
34:BA:686:U:C2'	34:BA:687:A:O5'	2.66	0.44
34:BA:769:G:H22	34:BA:811:C:H1'	1.82	0.44
34:BA:891:U:C5	34:BA:906:G:C2	3.05	0.44
34:BA:898:G:N2	34:BA:900:A:H3'	2.33	0.44
34:BA:1005:A:H2'	34:BA:1006:C:C4'	2.48	0.44
34:BA:1043:C:N3	34:BA:1044:A:C8	2.86	0.44
34:BA:1132:C:N3	34:BA:1142:G:N2	2.59	0.44
34:BA:1145:C:O2'	34:BA:1146:A:H8	2.00	0.44
34:BA:1165:C:C5	34:BA:1166:G:C8	3.05	0.44
34:BA:1250:A:C5	34:BA:1251:A:C6	3.06	0.44
34:BA:1261:A:C4	34:BA:1262:C:C5	3.06	0.44
34:BA:1270:C:C4'	34:BA:1313:U:O2'	2.65	0.44
34:BA:1291:G:OP1	42:BJ:37:ASN:ND2	2.47	0.44
34:BA:1300:G:H2'	34:BA:1301:U:OP2	2.17	0.44
34:BA:1325:C:H2'	34:BA:1326:C:O5'	2.18	0.44
34:BA:1336:C:H4'	34:BA:1337:G:C2	2.53	0.44
34:BA:1391:U:C2'	34:BA:1392:G:H8	2.25	0.44
34:BA:1402:C:H2'	34:BA:1403:C:C6	2.43	0.44
34:BA:1505:G:H3'	34:BA:1505:G:C8	2.53	0.44
34:BA:1533:C:C2'	34:BA:1534:A:O5'	2.65	0.44
35:BB:7:U:H4'	35:BB:8:U:OP2	2.15	0.44
35:BB:16:U:C2'	35:BB:17:U:OP2	2.66	0.44
35:BB:66:A:H5'	35:BB:67:A:OP2	2.18	0.44
37:BE:12:GLU:OE1	37:BE:209:ARG:NH1	2.45	0.44
37:BE:13:ALA:HA	37:BE:17:PHE:CE2	2.52	0.44
37:BE:20:GLU:C	37:BE:39:ILE:HD13	2.42	0.44
37:BE:88:ALA:CA	37:BE:219:VAL:HG13	2.46	0.44
37:BE:92:TYR:O	37:BE:151:GLY:C	2.60	0.44
37:BE:168:THR:CB	37:BE:192:SER:HA	2.48	0.44
38:BF:87:LEU:C	38:BF:89:GLU:N	2.75	0.44
38:BF:183:ASP:OD2	38:BF:183:ASP:C	2.60	0.44
38:BF:202:ILE:O	38:BF:204:LEU:CD2	2.65	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:12:CYS:CB	39:BG:33:MET:SD	2.87	0.44
39:BG:42:GLN:O	39:BG:43:HIS:CG	2.71	0.44
40:BH:91:LEU:HD23	40:BH:92:LYS:C	2.42	0.44
41:BI:46:ARG:O	41:BI:57:GLN:HA	2.18	0.44
41:BI:49:ALA:HB3	53:BU:79:LEU:H	1.82	0.44
41:BI:57:GLN:NE2	41:BI:57:GLN:H	2.15	0.44
41:BI:80:ARG:HA	41:BI:85:VAL:HG11	1.99	0.44
43:BK:31:PHE:HD2	43:BK:32:LYS:N	2.16	0.44
43:BK:43:GLY:O	43:BK:44:PHE:C	2.60	0.44
44:BL:40:LEU:C	44:BL:42:ARG:N	2.76	0.44
44:BL:69:GLY:O	44:BL:70:LYS:C	2.59	0.44
46:BN:22:HIS:HB3	46:BN:29:ILE:CG1	2.48	0.44
46:BN:62:GLN:OE1	46:BN:63:LEU:CA	2.63	0.44
46:BN:90:GLY:O	46:BN:91:ARG:C	2.61	0.44
47:BO:27:LEU:HD23	47:BO:33:ARG:HD3	1.99	0.44
47:BO:59:ARG:CD	47:BO:65:GLU:HG3	2.47	0.44
47:BO:119:LYS:O	47:BO:120:TYR:HB2	2.17	0.44
48:BP:19:LEU:HD13	48:BP:25:ILE:HG21	1.99	0.44
48:BP:64:TRP:HD1	48:BP:65:LYS:H	1.64	0.44
49:BQ:15:LYS:C	49:BQ:16:PHE:CG	2.96	0.44
52:BT:62:SER:HG	52:BT:72:ARG:HG3	1.74	0.44
53:BU:45:SER:C	53:BU:46:GLU:OE2	2.61	0.44
54:BV:16:LEU:O	54:BV:19:VAL:HG13	2.17	0.44
55:BW:40:ALA:HB2	55:BW:55:ILE:CB	2.44	0.44
1:AB:116:G:H2'	1:AB:117:G:C1'	2.48	0.44
1:AB:119:A:C8	1:AB:119:A:H3'	2.52	0.44
2:AA:26:G:N2	2:AA:513:A:N6	2.66	0.44
2:AA:52:A:C6	2:AA:118:A:C2	3.06	0.44
2:AA:116:C:H2'	2:AA:117:G:O5'	2.18	0.44
2:AA:124:G:C2'	31:A7:19:ARG:NH1	2.81	0.44
2:AA:285:C:C1'	2:AA:356:G:N2	2.81	0.44
2:AA:365:C:C6	2:AA:365:C:H3'	2.53	0.44
2:AA:675:A:C5	2:AA:676:A:C2	3.05	0.44
2:AA:774:A:C8	2:AA:775:G:N7	2.86	0.44
2:AA:783:A:C8	2:AA:783:A:C3'	3.01	0.44
2:AA:786:C:H6	2:AA:786:C:O5'	2.01	0.44
2:AA:799:G:N7	2:AA:800:A:C2	2.86	0.44
2:AA:832:G:C6	2:AA:833:U:O4	2.71	0.44
2:AA:907:U:N3	2:AA:908:C:H5	2.15	0.44
2:AA:917:A:N3	2:AA:918:A:O4'	2.50	0.44
2:AA:929:G:H2'	23:AX:37:LEU:CD1	2.46	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:971:C:O2	2:AA:971:C:O2'	2.34	0.44
2:AA:993:G:O4'	26:A2:90:PHE:HE2	2.01	0.44
2:AA:997:G:N3	2:AA:998:C:C6	2.86	0.44
2:AA:1083:U:H2'	9:AI:37:VAL:HG13	1.99	0.44
2:AA:1097:U:C2	2:AA:1098:A:O4'	2.70	0.44
2:AA:1136:G:O4'	2:AA:2038:G:O2'	2.33	0.44
2:AA:1138:G:N3	2:AA:1138:G:C2'	2.73	0.44
2:AA:1189:A:N7	2:AA:1190:G:N9	2.66	0.44
2:AA:1274:A:N3	2:AA:1297:C:H1'	2.33	0.44
2:AA:1300:U:H3'	2:AA:1635:G:OP1	2.18	0.44
2:AA:1366:A:H8	2:AA:1366:A:OP2	1.96	0.44
2:AA:449(A):G:N3	2:AA:1450:C:C6	2.86	0.44
2:AA:1525:G:O2'	2:AA:1526:G:P	2.75	0.44
2:AA:1639:U:H6	2:AA:1639:U:O5'	2.01	0.44
2:AA:1641:A:C6	2:AA:1642:G:C4	3.06	0.44
2:AA:1650:G:H21	2:AA:1651:G:C1'	2.28	0.44
2:AA:1657:C:C2	2:AA:1658:C:C5	3.06	0.44
2:AA:1670:C:H6	2:AA:1670:C:C4'	2.31	0.44
2:AA:1783:A:C6	2:AA:2587:A:H2	2.34	0.44
2:AA:1814:G:C3'	2:AA:1815:A:C8	2.99	0.44
2:AA:1827:C:H5''	2:AA:1971:A:H4'	1.99	0.44
2:AA:1970:A:O2'	2:AA:1971:A:OP2	2.36	0.44
2:AA:1979:C:O2	2:AA:1979:C:C2'	2.66	0.44
2:AA:1999:C:C4	2:AA:2000:G:C8	3.06	0.44
2:AA:2121:G:H21	3:AC:168:THR:CG2	2.30	0.44
2:AA:2123:G:O6	2:AA:2175:C:C2	2.71	0.44
2:AA:2184:G:C2	2:AA:2185:C:C2	3.06	0.44
2:AA:2196:C:O2	2:AA:2197:U:O2	2.36	0.44
2:AA:2224:G:H3'	2:AA:2224:G:C8	2.53	0.44
2:AA:2250:G:H5''	2:AA:2250:G:H8	1.83	0.44
2:AA:2376:A:C2'	2:AA:2377:A:O4'	2.66	0.44
2:AA:2415:G:H21	2:AA:2416:C:C1'	2.27	0.44
2:AA:2484:G:N2	2:AA:2485:G:O4'	2.49	0.44
2:AA:2527:C:O3'	33:A9:30:VAL:HG11	2.17	0.44
2:AA:2638:G:N2	2:AA:2776:A:C8	2.86	0.44
2:AA:2741:A:OP2	2:AA:2742:C:H5	2.00	0.44
2:AA:2875:C:N4	2:AA:2876:G:C6	2.86	0.44
3:AC:126:LYS:HG3	3:AC:127:LEU:HD23	1.99	0.44
4:AD:83:ASP:N	4:AD:89:ASN:HA	2.19	0.44
4:AD:184:LEU:O	4:AD:187:CYS:SG	2.74	0.44
4:AD:210:LYS:CA	4:AD:213:LYS:HE2	2.43	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:213:LYS:CB	4:AD:215:LYS:O	2.66	0.44
5:AE:177:ALA:O	5:AE:181:VAL:CB	2.64	0.44
6:AF:224:ALA:H	6:AF:225:PRO:HD2	1.76	0.44
8:AH:88:LEU:HD21	8:AH:93:TYR:O	2.18	0.44
9:AI:12:LYS:O	9:AI:13:LEU:C	2.60	0.44
9:AJ:53:GLN:HA	9:AJ:128:LYS:NZ	2.32	0.44
9:AJ:77:VAL:HG21	9:AJ:92:VAL:HG22	2.00	0.44
10:AK:5:PHE:CG	10:AK:17:GLU:C	2.96	0.44
10:AK:7:LYS:CD	10:AK:12:LYS:HZ2	2.30	0.44
10:AK:77:VAL:O	10:AK:144:HIS:CE1	2.71	0.44
10:AK:79:ILE:HA	10:AK:80:PRO:HD3	1.52	0.44
11:AL:19:THR:HG23	11:AL:39:CYS:HB2	2.00	0.44
11:AL:99:LYS:HB3	11:AL:140:VAL:HB	2.00	0.44
12:AM:63:ILE:O	12:AM:71:TYR:CE1	2.71	0.44
13:AN:8:LEU:HB2	13:AN:83:ALA:HA	1.98	0.44
13:AN:68:GLY:HA2	13:AN:78:ARG:CG	2.41	0.44
13:AN:101:PRO:HB3	13:AN:120:GLU:HB3	1.99	0.44
14:AO:52:LYS:HG2	14:AO:53:ARG:CZ	2.48	0.44
15:AP:47:GLU:HG2	15:AP:150:ASP:OD1	2.18	0.44
15:AP:93:ILE:O	15:AP:109:VAL:O	2.35	0.44
16:AQ:22:GLN:OE1	16:AQ:22:GLN:CA	2.66	0.44
16:AQ:66:LEU:O	16:AQ:69:TYR:CZ	2.71	0.44
18:AS:29:LEU:HD12	18:AS:33:ARG:HG2	1.99	0.44
19:AT:29:ASP:OD2	19:AT:30:ASP:OD1	2.35	0.44
19:AT:38:ALA:HB1	19:AT:49:VAL:HG22	2.00	0.44
21:AV:6:LYS:HZ2	21:AV:30:VAL:HG11	1.81	0.44
21:AV:37:LYS:C	21:AV:40:ASP:CG	2.86	0.44
21:AV:98:VAL:CG1	21:AV:99:HIS:N	2.81	0.44
22:AW:27:LEU:HD21	22:AW:49:LEU:HB3	2.00	0.44
23:AX:26:LEU:HD11	23:AX:47:VAL:HG22	1.90	0.44
24:A0:45:ARG:HG3	24:A0:95:THR:CG2	2.48	0.44
24:A0:46:GLY:O	24:A0:49:ASP:HB3	2.18	0.44
25:A1:49:ASP:O	25:A1:53:LYS:HG3	2.18	0.44
25:A1:99:ALA:N	25:A1:106:PHE:CD1	2.86	0.44
26:A2:71:ILE:O	26:A2:72:ARG:HG2	2.17	0.44
27:A3:37:LEU:CG	27:A3:71:ASN:HD22	2.31	0.44
27:A3:45:PHE:CE2	27:A3:80:SER:HB2	2.51	0.44
28:A4:43:TRP:HB2	28:A4:55:ARG:C	2.42	0.44
33:A9:19:ARG:HD2	33:A9:24:LEU:CG	2.47	0.44
34:BA:59:A:N7	34:BA:354:G:C6	2.86	0.44
34:BA:181:G:N2	34:BA:195:A:C4	2.86	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:246:A:N1	34:BA:279:A:C8	2.86	0.44
34:BA:250:A:H5'	34:BA:252:U:O4'	2.18	0.44
34:BA:313:A:C8	34:BA:314:C:H5	2.36	0.44
34:BA:325:A:C2'	34:BA:326:G:H5'	2.48	0.44
34:BA:429:U:C3'	39:BG:22:LYS:NZ	2.80	0.44
34:BA:437:U:C5	34:BA:438:G:C8	3.06	0.44
34:BA:462:G:C2	34:BA:463:A:C5	3.05	0.44
34:BA:475:G:N3	34:BA:476:G:N7	2.66	0.44
34:BA:587:G:C2	34:BA:755:G:C5	3.05	0.44
34:BA:590:C:P	43:BK:29:SER:OG	2.75	0.44
34:BA:602:A:C6	34:BA:637:G:C6	3.05	0.44
34:BA:627:G:OP1	51:BS:38:TYR:HE2	2.00	0.44
34:BA:671:G:C6	34:BA:672:U:C4	3.06	0.44
34:BA:787:A:O2'	34:BA:788:U:C5'	2.63	0.44
34:BA:830:G:H2'	34:BA:831:U:H5'	1.99	0.44
34:BA:924:C:H2'	34:BA:925:G:H8	1.81	0.44
34:BA:970:C:H42	48:BP:126:LYS:HE2	1.80	0.44
34:BA:1053:G:C3'	34:BA:1054:C:H5'	2.48	0.44
34:BA:1057:G:H1'	38:BF:195:VAL:CG1	2.48	0.44
34:BA:1085:U:H5'	34:BA:1094:G:N2	2.33	0.44
34:BA:1174:G:H2'	34:BA:1175:G:H5'	1.99	0.44
34:BA:1191:A:OP1	38:BF:4:LYS:NZ	2.40	0.44
34:BA:1261:A:H3'	34:BA:1262:C:C5	2.53	0.44
34:BA:1400:C:P	34:BA:1400:C:H6	2.39	0.44
34:BA:1402:C:O2'	34:BA:1403:C:H5'	2.17	0.44
34:BA:1430:C:O2'	34:BA:1431:C:C5'	2.66	0.44
34:BA:1436:U:H2'	34:BA:1437:C:H6	1.83	0.44
34:BA:1446:A:O2'	34:BA:1447:G:C5'	2.65	0.44
34:BA:1519:A:H3'	34:BA:1519:A:H8	1.81	0.44
37:BE:15:VAL:HG23	37:BE:16:HIS:N	2.32	0.44
37:BE:48:MET:CA	37:BE:51:LEU:HD12	2.42	0.44
37:BE:60:ASP:C	37:BE:64:ARG:NH1	2.76	0.44
37:BE:146:GLN:NE2	37:BE:150:SER:HB2	2.32	0.44
38:BF:147:LYS:HB3	38:BF:203:PHE:CD2	2.52	0.44
39:BG:132:ARG:CG	39:BG:132:ARG:NH1	2.78	0.44
39:BG:140:VAL:HG11	39:BG:185:PHE:CB	2.47	0.44
40:BH:78:HIS:NE2	40:BH:142:LEU:CD2	2.66	0.44
41:BI:4:TYR:C	41:BI:93:SER:OG	2.61	0.44
42:BJ:104:LEU:HD13	42:BJ:134:ALA:HB3	1.99	0.44
43:BK:35:ILE:CD1	43:BK:134:ILE:HG21	2.48	0.44
44:BL:78:LYS:HE2	44:BL:79:LEU:CD2	2.46	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BL:97:LYS:O	44:BL:100:GLY:CA	2.65	0.44
44:BL:114:TYR:CB	45:BM:60:ARG:NH1	2.69	0.44
45:BM:66:ARG:CD	45:BM:68:HIS:NE2	2.77	0.44
46:BN:12:ARG:CB	46:BN:75:TYR:CD2	3.01	0.44
47:BO:60:LEU:CD2	47:BO:64:TYR:CB	2.96	0.44
49:BQ:7:ILE:O	49:BQ:7:ILE:HG22	2.18	0.44
49:BQ:46:GLU:O	49:BQ:47:LEU:C	2.60	0.44
50:BR:15:PHE:CZ	50:BR:30:ALA:HB2	2.53	0.44
50:BR:33:THR:HA	50:BR:36:ILE:HB	2.00	0.44
51:BS:7:ALA:HB3	51:BS:18:ARG:CB	2.48	0.44
54:BV:67:VAL:C	54:BV:69:HIS:N	2.76	0.44
55:BW:42:GLN:O	55:BW:45:GLN:HB2	2.18	0.44
55:BW:58:LYS:O	55:BW:61:SER:HB2	2.18	0.44
1:AB:9:G:N2	1:AB:10:C:C2	2.86	0.44
2:AA:39:C:C2	2:AA:40:C:C5	3.06	0.44
2:AA:81:G:C2	2:AA:106:C:N3	2.86	0.44
2:AA:136:G:H8	2:AA:136:G:P	2.40	0.44
2:AA:150:C:H2'	2:AA:151:C:H5'	2.00	0.44
2:AA:154:G:C4	2:AA:155:C:N1	2.86	0.44
2:AA:204:A:O2'	2:AA:205:G:H4'	2.18	0.44
2:AA:233:A:C2'	2:AA:234:C:O5'	2.66	0.44
2:AA:241:A:O3'	2:AA:242:G:H4'	2.17	0.44
2:AA:269:U:O2	2:AA:270:A:N6	2.51	0.44
2:AA:285:C:C4	2:AA:286:C:N4	2.86	0.44
2:AA:307:G:H21	2:AA:330:A:H61	1.66	0.44
2:AA:313:C:C5	2:AA:314:A:N7	2.86	0.44
2:AA:422:A:N3	2:AA:422:A:C2'	2.69	0.44
2:AA:519:U:O4'	18:AS:75:TYR:HB3	2.17	0.44
2:AA:541:C:OP2	2:AA:541:C:O4'	2.35	0.44
2:AA:556:G:O2'	2:AA:557:U:C5'	2.65	0.44
2:AA:619:G:C8	2:AA:619:G:C3'	3.01	0.44
2:AA:646:A:C2	2:AA:647:G:C5	3.06	0.44
2:AA:660:G:N3	2:AA:661:C:C5	2.86	0.44
2:AA:679:C:N3	2:AA:798:G:N2	2.48	0.44
2:AA:688:U:O2'	2:AA:689:A:C5'	2.65	0.44
2:AA:692:C:C4	2:AA:693:C:C5	3.06	0.44
2:AA:714:U:C6	2:AA:714:U:H3'	2.53	0.44
2:AA:741:G:H1	2:AA:756:C:H42	1.65	0.44
2:AA:742:G:H5'	2:AA:1675:C:O2'	2.18	0.44
2:AA:752:A:C4'	2:AA:753:C:H5'	2.40	0.44
2:AA:752:A:C2'	2:AA:753:C:OP2	2.66	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:780:G:O5'	2:AA:780:G:H8	2.01	0.44
2:AA:799:G:OP1	2:AA:800:A:C5'	2.64	0.44
2:AA:806:C:H6	2:AA:806:C:H3'	1.82	0.44
2:AA:917:A:C8	2:AA:917:A:C5'	3.01	0.44
2:AA:929:G:C8	2:AA:929:G:P	3.11	0.44
2:AA:948:G:N2	2:AA:970:C:H1'	2.33	0.44
2:AA:988:A:C6	23:AX:13:ILE:HG21	2.53	0.44
2:AA:996:A:C6	2:AA:997:G:C5	3.06	0.44
2:AA:1078:U:C5'	2:AA:1079:C:OP1	2.64	0.44
2:AA:1080:C:O2'	11:AL:127:ILE:N	2.51	0.44
2:AA:1155:A:H2'	2:AA:1157:G:C8	2.53	0.44
2:AA:1173:G:H2'	2:AA:1173:G:N3	2.33	0.44
2:AA:1213:A:H1'	2:AA:1238:G:H1'	2.00	0.44
2:AA:1229:G:C6	2:AA:1230:C:C2	3.06	0.44
2:AA:1269:A:O2'	2:AA:1325:G:O6	2.29	0.44
2:AA:1343:G:N3	2:AA:1384:A:C2	2.79	0.44
2:AA:1494:A:N6	2:AA:1495:A:N3	2.66	0.44
2:AA:1545:A:C2	2:AA:545(A):A:C2	3.06	0.44
2:AA:1559:G:C4	2:AA:1559:G:C3'	2.63	0.44
2:AA:1578:U:H3'	2:AA:1579:A:H8	1.83	0.44
2:AA:1632:A:C6	2:AA:1633:G:N1	2.86	0.44
2:AA:1636:C:C2'	2:AA:1760:A:HO2'	2.29	0.44
2:AA:1678:G:H8	2:AA:1678:G:O5'	2.01	0.44
2:AA:1807:G:N2	2:AA:1809:A:H5'	2.30	0.44
2:AA:1835:G:N3	2:AA:1931:U:N3	2.66	0.44
2:AA:1903:G:C4	2:AA:1904:G:C8	3.06	0.44
2:AA:1913:A:H61	2:AA:1916:A:C3'	2.30	0.44
2:AA:1917:U:H2'	2:AA:1918:A:O5'	2.16	0.44
2:AA:1945:G:N1	2:AA:1946:U:C4	2.86	0.44
2:AA:2042:A:N6	12:AM:90:LYS:NZ	2.66	0.44
2:AA:2044:C:C2'	2:AA:2044:C:O2	2.65	0.44
2:AA:2093:G:C5'	10:AK:25:TYR:CD1	2.95	0.44
2:AA:2099:U:O2'	2:AA:2100:G:H5'	2.17	0.44
2:AA:2133:G:N3	2:AA:2133:G:C3'	2.80	0.44
2:AA:2178:C:O2	2:AA:2178:C:H2'	2.18	0.44
2:AA:2273:A:C8	2:AA:2274:A:C8	3.06	0.44
2:AA:2283:C:O2	2:AA:2283:C:C2'	2.63	0.44
2:AA:2306:C:N4	7:AG:53:LYS:HD3	2.33	0.44
2:AA:2333:A:O4'	2:AA:2335:A:N3	2.51	0.44
2:AA:2418:A:H2'	2:AA:2419:U:C6	2.53	0.44
2:AA:2468:G:C6	2:AA:2481:G:N1	2.86	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2478:A:H2'	2:AA:2479:G:O5'	2.17	0.44
2:AA:2509:G:H1	2:AA:2579:C:N4	2.15	0.44
2:AA:2564:A:C8	2:AA:2648:C:C5'	3.01	0.44
2:AA:2578:G:C2'	2:AA:2579:C:O5'	2.66	0.44
2:AA:2646:C:C2	2:AA:2647:U:C6	3.06	0.44
2:AA:2684:U:H4'	13:AN:76:TYR:CZ	2.53	0.44
2:AA:2733:A:H2'	2:AA:2734:A:O4'	2.18	0.44
2:AA:2745:C:N4	2:AA:2746:U:C4	2.86	0.44
2:AA:2754:U:O2	2:AA:2756:U:OP1	2.36	0.44
2:AA:2825:C:C6	2:AA:2825:C:C3'	3.01	0.44
3:AC:86:ALA:O	3:AC:87:GLU:C	2.61	0.44
3:AC:89:ALA:CB	3:AC:154:ARG:NH1	2.81	0.44
3:AC:181:PRO:O	3:AC:182:PRO:C	2.60	0.44
4:AD:74:PRO:HG2	4:AD:96:ALA:N	2.33	0.44
4:AD:120:ASP:O	4:AD:121:ALA:HB2	2.18	0.44
5:AE:43:GLY:O	5:AE:309:PRO:CG	2.65	0.44
5:AE:107:GLU:HG2	5:AE:110:ARG:NH2	2.32	0.44
5:AE:208:LYS:CB	5:AE:256:THR:O	2.65	0.44
5:AE:267:ARG:C	5:AE:297:LYS:HE2	2.43	0.44
6:AF:98:ARG:C	6:AF:99:SER:O	2.61	0.44
6:AF:155:SER:O	6:AF:157:LEU:N	2.51	0.44
6:AF:157:LEU:N	6:AF:157:LEU:HD23	2.32	0.44
8:AH:60:HIS:HA	8:AH:63:LEU:CB	2.44	0.44
8:AH:70:LEU:O	8:AH:73:ASN:N	2.51	0.44
8:AH:85:ALA:HA	8:AH:131:ILE:HG21	1.91	0.44
8:AH:86:LEU:HD23	8:AH:148:ARG:CG	2.47	0.44
9:AI:61:VAL:HG12	9:AI:102:ILE:HG22	2.00	0.44
9:AI:76:VAL:CG1	9:AI:118:LEU:HD23	2.48	0.44
9:AJ:50:GLY:O	9:AJ:53:GLN:N	2.50	0.44
10:AK:6:LEU:O	10:AK:6:LEU:CG	2.63	0.44
10:AK:10:LYS:NZ	10:AK:17:GLU:OE2	2.51	0.44
10:AK:32:LYS:NZ	28:A4:73:LYS:HD3	2.32	0.44
10:AK:64:ASN:HD22	10:AK:64:ASN:H	1.65	0.44
10:AK:135:PRO:O	10:AK:136:GLU:HG3	2.18	0.44
11:AL:93:LYS:O	21:AV:109:GLN:HA	2.18	0.44
12:AM:46:ILE:N	12:AM:131:THR:HG1	2.13	0.44
12:AM:60:ARG:O	12:AM:71:TYR:CD2	2.71	0.44
12:AM:87:LEU:CD1	12:AM:98:PHE:CZ	2.97	0.44
12:AM:136:SER:O	12:AM:137:GLU:C	2.59	0.44
13:AN:41:ALA:O	13:AN:58:VAL:O	2.36	0.44
13:AN:110:ASP:O	13:AN:111:PHE:CG	2.70	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:45:GLN:OE1	15:AP:153:PRO:CD	2.66	0.44
15:AP:64:ALA:HA	15:AP:142:LYS:HD3	1.99	0.44
15:AP:145:PRO:O	15:AP:147:VAL:N	2.47	0.44
16:AQ:32:PRO:HD2	16:AQ:100:ALA:HA	1.97	0.44
16:AQ:67:ALA:O	16:AQ:69:TYR:N	2.50	0.44
16:AQ:87:LEU:HD23	16:AQ:87:LEU:H	1.82	0.44
18:AS:12:ILE:HD13	18:AS:42:ARG:CD	2.48	0.44
18:AS:19:LEU:O	29:A5:25:LEU:CD1	2.63	0.44
19:AT:7:HIS:ND1	19:AT:8:PRO:N	2.66	0.44
19:AT:44:GLN:CD	19:AT:45:TYR:N	2.76	0.44
21:AV:98:VAL:CG2	21:AV:121:GLN:HE22	2.30	0.44
22:AW:9:ARG:HB2	22:AW:59:ILE:CD1	2.47	0.44
22:AW:13:PRO:O	22:AW:16:ARG:HB2	2.18	0.44
24:A0:20:LEU:CD1	24:A0:21:TYR:N	2.81	0.44
24:A0:20:LEU:O	24:A0:22:ARG:N	2.51	0.44
24:A0:27:SER:O	24:A0:30:THR:HB	2.18	0.44
25:A1:93:LYS:C	25:A1:94:VAL:HG23	2.43	0.44
26:A2:2:PHE:O	26:A2:43:GLU:O	2.36	0.44
28:A4:5:LEU:CG	28:A4:8:LYS:O	2.64	0.44
28:A4:58:LYS:HB3	28:A4:59:PHE:H	1.63	0.44
32:A8:4:MET:C	32:A8:5:LYS:HD2	2.43	0.44
32:A8:31:HIS:O	32:A8:32:GLN:CG	2.50	0.44
32:A8:64:ARG:HG2	32:A8:64:ARG:HH11	1.83	0.44
33:A9:27:CYS:HB3	33:A9:32:HIS:CG	2.53	0.44
34:BA:22:G:C2	34:BA:23:C:C2	3.06	0.44
34:BA:140:A:N1	34:BA:224:C:N3	2.66	0.44
34:BA:146:G:H1	34:BA:176:C:N4	2.13	0.44
34:BA:220:G:C2'	34:BA:221:C:H5'	2.46	0.44
34:BA:266:G:O2'	34:BA:268:C:OP2	2.36	0.44
34:BA:716:A:H1'	46:BN:118:GLY:HA3	1.99	0.44
34:BA:744:C:H2'	34:BA:745:C:C6	2.53	0.44
34:BA:856:C:C2	34:BA:857:C:C5	3.06	0.44
34:BA:942:G:H21	44:BL:124:GLN:CD	2.20	0.44
34:BA:952:U:H5''	34:BA:972:C:N4	2.32	0.44
34:BA:1033:G:C4	34:BA:1034:G:N7	2.85	0.44
34:BA:1038:C:O2	34:BA:1039:C:C6	2.71	0.44
34:BA:1084:G:O2'	34:BA:1085:U:P	2.76	0.44
34:BA:1124:G:H21	34:BA:1126:U:H3	1.66	0.44
34:BA:1141:C:H2'	34:BA:1142:G:H8	1.83	0.44
34:BA:1216:G:H2'	34:BA:1217:C:C5	2.52	0.44
34:BA:1380:U:O2'	34:BA:1381:U:P	2.75	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1400:C:C1'	35:BC:34:G:H22	2.23	0.44
35:BB:29:A:H2'	35:BB:30:G:H8	1.82	0.44
35:BB:31:A:H61	35:BB:39:U:H3	1.66	0.44
35:BB:37:G:H2'	35:BB:38:A:H8	1.83	0.44
37:BE:36:ARG:O	37:BE:38:GLY:N	2.50	0.44
37:BE:95:GLN:CB	37:BE:148:TYR:HB3	2.46	0.44
38:BF:35:GLU:CD	38:BF:95:THR:HG21	2.43	0.44
39:BG:105:VAL:HB	39:BG:117:ALA:HB1	2.00	0.44
39:BG:191:ARG:NH2	39:BG:196:LEU:O	2.49	0.44
40:BH:51:VAL:CB	40:BH:52:PRO:CD	2.91	0.44
40:BH:112:LEU:O	40:BH:113:ALA:C	2.61	0.44
41:BI:42:GLU:HG3	41:BI:61:LEU:HD23	1.96	0.44
41:BI:52:ILE:CD1	41:BI:87:ARG:NH2	2.81	0.44
42:BJ:15:ASP:HB2	42:BJ:23:VAL:CB	2.47	0.44
42:BJ:22:LEU:HG	42:BJ:62:PHE:HE2	1.83	0.44
43:BK:14:ARG:O	43:BK:18:ARG:CD	2.64	0.44
43:BK:24:THR:N	43:BK:60:ARG:CD	2.81	0.44
43:BK:73:ASP:OD2	43:BK:74:PRO:N	2.51	0.44
46:BN:29:ILE:HA	46:BN:44:SER:HB3	2.00	0.44
47:BO:83:VAL:HG22	47:BO:84:LEU:N	2.27	0.44
48:BP:23:TYR:CE2	48:BP:70:LEU:HD22	2.52	0.44
48:BP:108:ARG:CZ	48:BP:111:LYS:CB	2.94	0.44
50:BR:53:HIS:CD2	50:BR:57:LEU:HD13	2.52	0.44
50:BR:64:ARG:HG3	50:BR:65:ARG:N	2.32	0.44
52:BT:76:LEU:HD23	52:BT:77:VAL:N	2.32	0.44
53:BU:74:ARG:HB3	53:BU:81:PHE:HD2	1.82	0.44
53:BU:82:THR:O	53:BU:83:GLU:CD	2.61	0.44
1:AB:24:G:H2'	1:AB:27:C:H41	1.82	0.43
2:AA:143:C:H3'	2:AA:143:C:C6	2.51	0.43
2:AA:162:U:O5'	2:AA:171:G:N3	2.51	0.43
2:AA:181:A:C5	2:AA:182:A:N7	2.86	0.43
2:AA:260:G:N1	2:AA:261:G:N7	2.66	0.43
2:AA:270(G):C:O2	2:AA:270(H):C:C6	2.71	0.43
2:AA:270(I):G:C6	2:AA:270(J):G:C8	3.05	0.43
2:AA:295:G:H3'	2:AA:338:G:H22	1.83	0.43
2:AA:309:G:C5	2:AA:330:A:C6	3.06	0.43
2:AA:319:C:C6	2:AA:320:A:N7	2.86	0.43
2:AA:371:A:C5'	2:AA:423:A:N7	2.81	0.43
2:AA:398:G:P	28:A4:58:LYS:HD2	2.57	0.43
2:AA:458:G:H2'	2:AA:469:G:C6	2.53	0.43
2:AA:527:C:C5	2:AA:2779:U:C6	3.06	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:581:C:H5''	25:A1:32:TYR:CG	2.53	0.43
2:AA:625:G:C3'	2:AA:626:U:C5'	2.95	0.43
2:AA:629:G:C6	2:AA:630:G:C5	3.06	0.43
2:AA:674:G:C4'	6:AF:69:HIS:HA	2.48	0.43
2:AA:700:G:N1	2:AA:701:G:C5	2.86	0.43
2:AA:713:G:H22	2:AA:714:U:H1'	1.82	0.43
2:AA:740:U:O4	2:AA:758:C:O2	2.36	0.43
2:AA:823:G:N1	2:AA:824:A:C6	2.86	0.43
2:AA:823:G:N1	2:AA:824:A:N6	2.66	0.43
2:AA:842:G:N2	2:AA:937:U:C2	2.86	0.43
2:AA:852:G:H2'	2:AA:853:G:O5'	2.18	0.43
2:AA:855:G:H22	27:A3:26:PHE:HZ	1.65	0.43
2:AA:933:A:C2'	2:AA:934:G:C5'	2.96	0.43
2:AA:957:A:C5'	2:AA:957:A:H8	2.31	0.43
2:AA:997:G:P	25:A1:93:LYS:HE2	2.58	0.43
2:AA:1021:A:C2	2:AA:1122:G:H4'	2.53	0.43
2:AA:1072:C:H42	2:AA:1100:C:H41	1.66	0.43
2:AA:1173:G:N2	2:AA:1175:U:C3'	2.81	0.43
2:AA:1178:C:H2'	2:AA:1179:C:OP2	2.17	0.43
2:AA:1208:C:C4	2:AA:1209:G:N7	2.86	0.43
2:AA:1224:G:C8	2:AA:1224:G:OP1	2.70	0.43
2:AA:1263:U:C5	2:AA:1264:G:C6	3.06	0.43
2:AA:1277:G:N3	24:A0:23:ASN:ND2	2.66	0.43
2:AA:1283:G:C2	2:AA:1285:G:C8	3.06	0.43
2:AA:1342:A:C5	2:AA:1345:C:N4	2.86	0.43
2:AA:1375:C:C4	2:AA:1376:C:C5	3.06	0.43
2:AA:1419:A:N7	2:AA:1421:G:C6	2.86	0.43
2:AA:1446:C:N3	2:AA:1466:G:C2	2.86	0.43
2:AA:1451:C:C3'	2:AA:1453:A:C5'	2.95	0.43
2:AA:1568:G:N3	2:AA:1568:G:O4'	2.50	0.43
2:AA:1637:A:N1	2:AA:1638:C:C4	2.86	0.43
2:AA:1657:C:N3	2:AA:1658:C:C5	2.86	0.43
2:AA:1742:C:C2'	2:AA:1743:G:C1'	2.93	0.43
2:AA:1934:C:C2'	2:AA:1935:G:O5'	2.65	0.43
2:AA:2021:C:OP2	29:A5:15:LYS:HE3	2.17	0.43
2:AA:2069:G:C6	2:AA:2443:C:N4	2.86	0.43
2:AA:2113:U:OP2	2:AA:2116:G:C2'	2.55	0.43
2:AA:2123:G:O3'	3:AC:132:GLY:C	2.61	0.43
2:AA:2192:G:C2	2:AA:2193:G:C8	3.05	0.43
2:AA:2218:G:O2'	4:AD:184:LEU:HD11	2.17	0.43
2:AA:2227:A:C6	2:AA:2228:G:N7	2.86	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2266:A:C2	2:AA:2272:U:C5	3.06	0.43
2:AA:2312:U:N3	2:AA:2313:C:N3	2.65	0.43
2:AA:2363:C:C2'	2:AA:2364:C:H5'	2.47	0.43
2:AA:2364:C:H5''	27:A3:38:VAL:HG12	1.99	0.43
2:AA:2376:A:H2'	2:AA:2377:A:O4'	2.18	0.43
2:AA:2404:C:O2	2:AA:2404:C:H2'	2.18	0.43
2:AA:2418:A:C8	2:AA:2419:U:C5	3.06	0.43
2:AA:2528:U:OP1	33:A9:30:VAL:HB	2.18	0.43
2:AA:2538:C:O2	2:AA:2539:C:C6	2.71	0.43
2:AA:2595:G:C2	2:AA:2597:G:P	3.10	0.43
2:AA:2603:G:O2'	2:AA:2604:U:H5'	2.18	0.43
2:AA:2620:C:H2'	2:AA:2621:A:H5''	1.99	0.43
2:AA:2650:U:O2	2:AA:2650:U:H2'	2.18	0.43
2:AA:2759:G:C4	2:AA:2760:C:C5	3.06	0.43
2:AA:2804:C:C6	2:AA:2805:G:N1	2.86	0.43
3:AC:133:PRO:CD	3:AC:134:ARG:H	2.30	0.43
3:AC:214:VAL:HG23	3:AC:224:ILE:HD11	2.01	0.43
4:AD:129:LEU:CD2	4:AD:133:ASN:HB2	2.47	0.43
4:AD:170:TYR:N	4:AD:170:TYR:CD2	2.86	0.43
5:AE:264:LEU:O	5:AE:265:ASN:CG	2.61	0.43
5:AE:268:LEU:C	5:AE:297:LYS:HZ3	2.25	0.43
5:AE:268:LEU:CD1	5:AE:296:VAL:HG22	2.48	0.43
5:AE:292:PRO:O	5:AE:293:TYR:CE2	2.69	0.43
6:AF:149:LYS:O	6:AF:152:GLU:CB	2.63	0.43
7:AG:38:GLU:HG2	7:AG:41:LEU:HD12	2.00	0.43
7:AG:40:ILE:O	7:AG:41:LEU:C	2.61	0.43
7:AG:96:SER:OG	7:AG:97:GLN:N	2.51	0.43
9:AJ:22:VAL:HA	9:AJ:38:ALA:CB	2.48	0.43
9:AJ:60:ASP:OD2	9:AJ:101:VAL:HG21	2.17	0.43
12:AM:42:GLU:CD	12:AM:42:GLU:H	2.26	0.43
12:AM:84:ARG:O	12:AM:87:LEU:N	2.50	0.43
13:AN:10:VAL:HG21	13:AN:17:ARG:N	2.33	0.43
14:AO:59:GLU:C	14:AO:60:GLU:CG	2.90	0.43
15:AP:56:ILE:CD1	15:AP:115:SER:CB	2.80	0.43
16:AQ:60:SER:O	16:AQ:88:ALA:CB	2.66	0.43
17:AR:9:CYS:O	17:AR:10:GLY:C	2.60	0.43
18:AS:8:ARG:HD2	18:AS:9:TYR:HD1	1.82	0.43
18:AS:59:VAL:HG21	18:AS:66:GLU:N	2.33	0.43
19:AT:34:LYS:O	19:AT:38:ALA:CB	2.65	0.43
20:AU:52:ARG:HB2	20:AU:95:ASN:CG	2.43	0.43
21:AV:14:LEU:HD21	21:AV:80:HIS:CE1	2.53	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AV:51:LEU:HA	21:AV:65:LEU:HD12	1.99	0.43
21:AV:57:GLU:N	21:AV:57:GLU:OE1	2.51	0.43
21:AV:86:VAL:C	21:AV:88:TYR:H	2.26	0.43
22:AW:20:LEU:HD22	22:AW:20:LEU:HA	1.73	0.43
22:AW:21:ASP:O	22:AW:22:ASP:C	2.61	0.43
24:A0:76:VAL:HG12	24:A0:77:ARG:HG2	1.99	0.43
25:A1:46:GLU:HG3	25:A1:46:GLU:H	1.41	0.43
27:A3:36:ILE:O	27:A3:37:LEU:CD2	2.66	0.43
29:A5:46:CYS:CB	29:A5:48:ASN:HD22	2.30	0.43
32:A8:26:LYS:HB2	32:A8:44:LYS:CG	2.48	0.43
34:BA:16:A:H2'	34:BA:17:U:C5'	2.48	0.43
34:BA:34:C:H2'	34:BA:35:G:C8	2.53	0.43
34:BA:247:G:OP1	52:BT:100:LYS:HG3	2.18	0.43
34:BA:257:G:H1	34:BA:269:C:H42	1.66	0.43
34:BA:440:A:C6	34:BA:495:U:C4	3.05	0.43
34:BA:452:A:C2'	34:BA:453:A:C8	2.89	0.43
34:BA:509:A:C2	34:BA:510:A:C2	3.06	0.43
34:BA:597:G:C5	34:BA:644:G:C2	3.05	0.43
34:BA:620:C:H2'	34:BA:621:A:C4'	2.46	0.43
34:BA:699:C:H2'	34:BA:700:G:H8	1.82	0.43
34:BA:723:U:H3'	34:BA:723:U:C2	2.53	0.43
34:BA:767:A:C2	34:BA:768:A:C4	3.06	0.43
34:BA:827:U:C2	34:BA:870:U:O4	2.71	0.43
34:BA:841:U:C3'	34:BA:848:C:C5'	2.94	0.43
34:BA:859:A:C2'	34:BA:860:A:O4'	2.60	0.43
34:BA:931:C:C2	34:BA:1387:G:C2	3.06	0.43
34:BA:1054:C:OP2	34:BA:1197:G:P	2.75	0.43
34:BA:1056:U:OP1	38:BF:162:GLN:NE2	2.51	0.43
34:BA:1171:G:HO2'	34:BA:1172:C:H6	1.60	0.43
34:BA:1234:C:H4'	34:BA:1364:U:C1'	2.48	0.43
34:BA:1273:G:C2'	34:BA:1274:G:H5'	2.49	0.43
34:BA:1305:G:OP2	34:BA:1305:G:O4'	2.36	0.43
34:BA:1314:C:C4	34:BA:1315:U:O4	2.71	0.43
34:BA:1350:A:N1	34:BA:1372:U:C2	2.86	0.43
34:BA:1355:G:C2'	34:BA:1356:G:O5'	2.66	0.43
34:BA:1374:A:O2'	42:BJ:31:MET:CE	2.66	0.43
34:BA:1422:G:N1	34:BA:1423:G:C5	2.85	0.43
34:BA:1531:A:HO2'	34:BA:1532:U:C1'	2.29	0.43
34:BA:1539:C:C2'	34:BA:1539:C:O2	2.62	0.43
35:BB:7:U:C4	35:BB:67:A:C6	3.04	0.43
35:BB:75:C:O2	35:BB:75:C:H2'	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:17:PHE:HD1	37:BE:17:PHE:C	2.25	0.43
37:BE:162:ILE:CD1	37:BE:183:PRO:O	2.62	0.43
38:BF:6:HIS:ND1	38:BF:7:PRO:HD2	2.33	0.43
38:BF:20:SER:C	38:BF:21:ARG:CG	2.90	0.43
38:BF:36:ASP:HA	38:BF:39:ILE:CD1	2.24	0.43
39:BG:204:ILE:HD12	39:BG:204:ILE:N	2.30	0.43
40:BH:21:ALA:C	40:BH:23:GLY:N	2.76	0.43
41:BI:62:TRP:CD2	41:BI:62:TRP:C	2.96	0.43
43:BK:31:PHE:O	43:BK:34:GLU:HB2	2.18	0.43
44:BL:47:LEU:HD11	44:BL:50:LEU:HD12	1.99	0.43
44:BL:75:ASP:O	44:BL:78:LYS:N	2.50	0.43
44:BL:125:TYR:HE2	44:BL:128:ARG:HH22	1.63	0.43
46:BN:57:THR:HG23	46:BN:60:ALA:CB	2.47	0.43
47:BO:32:PHE:HB2	47:BO:84:LEU:HD11	2.00	0.43
49:BQ:42:ILE:CG2	49:BQ:46:GLU:OE2	2.65	0.43
51:BS:26:ARG:C	51:BS:27:LYS:O	2.56	0.43
52:BT:45:HIS:CE1	52:BT:47:PRO:HA	2.52	0.43
53:BU:61:LYS:HD2	53:BU:64:ARG:HH22	1.83	0.43
55:BW:73:HIS:CD2	55:BW:74:LYS:NZ	2.86	0.43
1:AB:89(A):A:C3'	1:AB:90:C:C5'	2.96	0.43
2:AA:83:G:C2'	2:AA:84:A:OP2	2.65	0.43
2:AA:84:A:P	20:AU:111:ARG:HH12	2.38	0.43
2:AA:110:G:C6	2:AA:111:A:N6	2.86	0.43
2:AA:112:U:C4	2:AA:113:G:C4	3.06	0.43
2:AA:116:C:C2'	2:AA:117:G:O5'	2.67	0.43
2:AA:215:G:C4'	2:AA:216:A:O5'	2.39	0.43
2:AA:242:G:H8	32:A8:3:LYS:O	2.00	0.43
2:AA:244:A:N9	2:AA:255:A:N6	2.64	0.43
2:AA:319:C:H3'	2:AA:320:A:H8	1.82	0.43
2:AA:363(F):A:N3	2:AA:363(F):A:H2'	2.33	0.43
2:AA:439:G:H2'	2:AA:440:G:C8	2.53	0.43
2:AA:467:G:O2'	2:AA:796:C:O2'	2.16	0.43
2:AA:515:A:O4'	2:AA:581:C:C1'	2.66	0.43
2:AA:529:A:H2'	2:AA:530:G:OP2	2.18	0.43
2:AA:539:G:N2	2:AA:540:G:C5	2.86	0.43
2:AA:617:G:C8	2:AA:618:G:C8	3.05	0.43
2:AA:668:G:N3	2:AA:670:A:C5	2.86	0.43
2:AA:678:C:C2	2:AA:679:C:C6	3.06	0.43
2:AA:717:G:O6	2:AA:718:A:C5	2.72	0.43
2:AA:729:G:N2	2:AA:1775:U:C1'	2.82	0.43
2:AA:742:G:C5'	2:AA:1675:C:O2'	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:776:G:C4	2:AA:793:A:C6	3.06	0.43
2:AA:819:A:C8	2:AA:819:A:C3'	3.01	0.43
2:AA:928:G:H2'	2:AA:929:G:N9	2.33	0.43
2:AA:935:C:H2'	2:AA:936:C:H6	1.84	0.43
2:AA:958:U:H6	2:AA:958:U:H3'	1.84	0.43
2:AA:1001:A:H2'	2:AA:1002:G:O4'	2.18	0.43
2:AA:1025:G:C8	2:AA:1134:G:H4'	2.52	0.43
2:AA:1025:G:N3	2:AA:1025:G:H3'	2.33	0.43
2:AA:1057:A:H2	2:AA:1082:U:H3	1.65	0.43
2:AA:1170:G:N1	2:AA:1180:C:C4	2.86	0.43
2:AA:1233:C:N3	2:AA:1234:U:C6	2.86	0.43
2:AA:1258:C:C2'	2:AA:1259:G:H5'	2.49	0.43
2:AA:1267:U:H2'	2:AA:1268:A:C5'	2.48	0.43
2:AA:1268:A:C2	2:AA:1269:A:C4	3.06	0.43
2:AA:1283:G:N2	2:AA:1285:G:C8	2.86	0.43
2:AA:1333:C:C6	2:AA:1333:C:C5'	2.96	0.43
2:AA:1405:U:O2'	2:AA:1406:U:O5'	2.36	0.43
2:AA:1472:A:C8	2:AA:1473:G:C8	3.05	0.43
2:AA:1484:G:H2'	2:AA:1485:G:OP2	2.18	0.43
2:AA:1538:G:O6	2:AA:1539:G:C6	2.71	0.43
2:AA:1568:G:C3'	4:AD:60:GLN:HG2	2.47	0.43
2:AA:1599:C:O5'	2:AA:1599:C:H6	2.01	0.43
2:AA:1657:C:OP1	5:AE:232:ARG:O	2.36	0.43
2:AA:1661:G:O2'	2:AA:1662:C:C5'	2.63	0.43
2:AA:1747:G:N3	2:AA:1748:G:C8	2.86	0.43
2:AA:1758:G:O6	2:AA:2695:C:O3'	2.36	0.43
2:AA:1789:A:H4'	4:AD:224:VAL:CG1	2.45	0.43
2:AA:1859:A:C2	2:AA:1884:A:O2'	2.71	0.43
2:AA:1909:C:O2'	35:BC:11:C:H4'	2.18	0.43
2:AA:1935:G:N2	2:AA:1962:C:O2'	2.50	0.43
2:AA:1941:C:C2'	2:AA:1942:C:O5'	2.58	0.43
2:AA:1945:G:C2	2:AA:1946:U:C6	3.06	0.43
2:AA:2009:G:O3'	18:AS:41:LYS:HG3	2.18	0.43
2:AA:2046:G:H1'	29:A5:22:HIS:CE1	2.53	0.43
2:AA:2049:G:C6	2:AA:2050:C:N4	2.86	0.43
2:AA:2077:A:N7	2:AA:2238:G:O6	2.51	0.43
2:AA:2082:A:N3	2:AA:2082:A:C2'	2.81	0.43
2:AA:2135:A:N7	2:AA:2151:G:OP2	2.52	0.43
2:AA:2185:C:N4	2:AA:2186:G:O6	2.51	0.43
2:AA:2233:U:O2'	2:AA:2234:G:C5'	2.58	0.43
2:AA:2294:C:H2'	2:AA:2295:C:O5'	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2386:C:H1'	27:A3:39:ARG:NH2	2.32	0.43
2:AA:2464:C:N3	2:AA:2486:G:C2	2.77	0.43
2:AA:2640:G:C2	2:AA:2641:G:C8	3.06	0.43
2:AA:2648:C:N3	2:AA:2673:G:C2	2.86	0.43
2:AA:2734:A:N6	5:AE:316:ARG:NH2	2.53	0.43
2:AA:2753:A:H2'	2:AA:2754:U:H6	1.83	0.43
2:AA:2820:A:O2'	5:AE:207:GLY:O	2.35	0.43
2:AA:2838:G:O2'	2:AA:2839:G:C5'	2.64	0.43
3:AC:72:VAL:O	3:AC:74:VAL:HG23	2.18	0.43
3:AC:190:ARG:O	3:AC:193:ILE:HB	2.18	0.43
4:AD:141:HIS:C	4:AD:143:ILE:H	2.12	0.43
5:AE:44:TYR:HB2	5:AE:74:GLU:HG2	2.00	0.43
5:AE:218:GLY:O	5:AE:219:VAL:HG23	2.17	0.43
5:AE:221:LYS:O	5:AE:222:ARG:C	2.61	0.43
6:AF:93:LYS:CB	6:AF:95:GLU:O	2.66	0.43
6:AF:111:VAL:HG13	6:AF:220:THR:H	1.83	0.43
8:AH:10:ILE:CD1	8:AH:49:ILE:CG1	2.93	0.43
8:AH:36:PHE:C	8:AH:37:HIS:ND1	2.75	0.43
8:AH:77:GLY:O	8:AH:78:VAL:C	2.60	0.43
8:AH:116:PRO:CA	8:AH:120:LEU:HD12	2.38	0.43
9:AI:23:LYS:HD2	9:AJ:47:ALA:CA	2.49	0.43
10:AK:4:ILE:CD1	10:AK:39:ALA:N	2.82	0.43
10:AK:114:LYS:NZ	10:AK:133:LEU:HD23	2.25	0.43
11:AL:15:ALA:O	11:AL:17:LYS:HG3	2.18	0.43
11:AL:18:ALA:O	11:AL:19:THR:CB	2.67	0.43
11:AL:19:THR:HG23	11:AL:39:CYS:HB3	1.99	0.43
13:AN:17:ARG:HH12	13:AN:54:LYS:HZ3	1.65	0.43
13:AN:112:MET:O	13:AN:114:ILE:N	2.51	0.43
15:AP:67:ALA:HA	15:AP:70:ARG:NH1	2.33	0.43
15:AP:142:LYS:CE	15:AP:142:LYS:C	2.91	0.43
20:AU:49:GLU:O	20:AU:97:ARG:CD	2.66	0.43
20:AU:51:LEU:CB	20:AU:97:ARG:HE	2.30	0.43
20:AU:84:GLY:O	20:AU:85:GLU:C	2.60	0.43
21:AV:63:PRO:O	21:AV:64:ALA:CB	2.66	0.43
21:AV:79:ILE:HG22	21:AV:80:HIS:CG	2.53	0.43
23:AX:4:LEU:N	23:AX:4:LEU:HD23	2.33	0.43
25:A1:101:ARG:HG2	25:A1:101:ARG:H	1.53	0.43
25:A1:105:ALA:O	25:A1:106:PHE:C	2.60	0.43
27:A3:75:GLY:O	27:A3:76:ALA:CB	2.66	0.43
28:A4:9:ALA:C	28:A4:10:VAL:HG23	2.43	0.43
28:A4:52:THR:O	28:A4:53:GLU:CB	2.64	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:A8:5:LYS:HE2	32:A8:63:PRO:HG3	1.98	0.43
32:A8:10:ALA:O	32:A8:14:ILE:CG2	2.66	0.43
34:BA:34:C:N3	34:BA:35:G:N7	2.67	0.43
34:BA:66:G:C4'	34:BA:173:U:C4	3.01	0.43
34:BA:97:G:O2'	34:BA:98:U:H5'	2.18	0.43
34:BA:122:G:O2'	34:BA:123:C:H5'	2.18	0.43
34:BA:325:A:C8	34:BA:326:G:N7	2.86	0.43
34:BA:394:G:C5	34:BA:395:C:N4	2.86	0.43
34:BA:432:A:H2'	34:BA:433:C:O4'	2.18	0.43
34:BA:442:C:N3	34:BA:443:C:C6	2.86	0.43
34:BA:443:C:N3	34:BA:491:G:N2	2.61	0.43
34:BA:485:G:O2'	34:BA:486:U:C6	2.71	0.43
34:BA:529:G:C8	34:BA:529:G:C3'	3.01	0.43
34:BA:585:G:C2	34:BA:586:C:C2	3.06	0.43
34:BA:596:C:O2	34:BA:596:C:C2'	2.66	0.43
34:BA:643:C:N3	34:BA:644:G:N7	2.66	0.43
34:BA:671:G:C2'	34:BA:671:G:N3	2.79	0.43
34:BA:706:A:H4'	46:BN:22:HIS:ND1	2.33	0.43
34:BA:720:C:N4	34:BA:721:G:N3	2.65	0.43
34:BA:728:A:C6	34:BA:729:A:C6	3.06	0.43
34:BA:744:C:C2	34:BA:745:C:C5	3.06	0.43
34:BA:858:G:C6	34:BA:869:G:C8	3.06	0.43
34:BA:883:C:N3	34:BA:884:U:C4	2.87	0.43
34:BA:997:U:C4	34:BA:998:G:N7	2.86	0.43
34:BA:1051:C:H3'	34:BA:1052:U:C6	2.53	0.43
34:BA:1134:G:H1	34:BA:1140:C:H42	0.56	0.43
34:BA:1277:C:O4'	34:BA:1282:C:H1'	2.18	0.43
34:BA:1331:G:O2'	34:BA:1332:A:P	2.76	0.43
34:BA:1414:U:O2'	34:BA:1415:G:C5'	2.66	0.43
34:BA:1433:A:H2'	34:BA:1434:A:C5'	2.48	0.43
34:BA:1505:G:H3'	34:BA:1505:G:H8	1.83	0.43
35:BB:26:G:N1	35:BB:27:C:N1	2.66	0.43
35:BB:41:U:H3'	35:BB:42:G:O4'	2.18	0.43
35:BC:35:A:C2	36:B1:62:G:C5	3.06	0.43
36:B1:61:U:N3	36:B1:62:G:C8	2.86	0.43
37:BE:46:LYS:O	37:BE:47:THR:C	2.61	0.43
37:BE:48:MET:CG	37:BE:51:LEU:HD12	2.48	0.43
37:BE:219:VAL:HG12	37:BE:223:ILE:HD11	2.00	0.43
38:BF:23:TYR:HD2	38:BF:24:ALA:H	1.62	0.43
38:BF:70:VAL:HG12	38:BF:71:ALA:N	2.33	0.43
38:BF:124:ILE:O	38:BF:125:GLU:C	2.60	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:56:VAL:CG1	39:BG:57:ARG:HD2	2.47	0.43
39:BG:100:ARG:HB2	39:BG:103:ASN:CB	2.49	0.43
41:BI:23:LYS:NZ	41:BI:42:GLU:OE1	2.52	0.43
41:BI:80:ARG:CA	41:BI:88:VAL:HG21	2.48	0.43
42:BJ:36:LYS:NZ	42:BJ:36:LYS:CB	2.75	0.43
43:BK:4:ASP:O	43:BK:7:ALA:HB3	2.18	0.43
43:BK:6:ILE:CD1	43:BK:6:ILE:C	2.80	0.43
43:BK:17:THR:HG22	43:BK:78:GLN:CD	2.43	0.43
44:BL:101:PHE:N	44:BL:102:LEU:HD23	2.33	0.43
44:BL:105:ASP:C	44:BL:107:ARG:H	2.22	0.43
45:BM:9:ARG:O	45:BM:94:VAL:CG1	2.65	0.43
46:BN:15:ALA:HA	46:BN:78:GLN:HE22	1.74	0.43
47:BO:24:VAL:HG22	47:BO:98:TYR:OH	2.18	0.43
48:BP:55:ARG:NH2	48:BP:56:LEU:CD2	2.66	0.43
48:BP:92:HIS:CE1	48:BP:98:VAL:HB	2.53	0.43
49:BQ:25:VAL:CG1	49:BQ:38:GLY:O	2.66	0.43
50:BR:3:ILE:CA	50:BR:38:ARG:HH21	2.30	0.43
50:BR:24:SER:C	50:BR:28:GLN:HG2	2.41	0.43
50:BR:39:LEU:HD22	50:BR:56:LEU:HD22	1.93	0.43
52:BT:5:VAL:HG13	52:BT:59:ILE:H	1.82	0.43
54:BV:32:LYS:O	54:BV:57:HIS:CE1	2.71	0.43
55:BW:50:GLU:HA	55:BW:100:ILE:HG13	1.99	0.43
1:AB:9:G:C6	1:AB:112:G:N7	2.86	0.43
1:AB:17:C:N4	1:AB:68:C:H42	2.16	0.43
1:AB:70:C:C4	1:AB:71:C:H5	2.37	0.43
2:AA:25:U:C6	2:AA:26:G:N7	2.86	0.43
2:AA:76:C:H4'	22:AW:55:ARG:CG	2.48	0.43
2:AA:97:C:C2'	2:AA:98:G:O5'	2.66	0.43
2:AA:126:A:H5''	31:A7:18:PHE:HD1	1.83	0.43
2:AA:137(A):G:C8	2:AA:138:G:C6	3.07	0.43
2:AA:164:U:H2'	2:AA:171:G:C5'	2.49	0.43
2:AA:215:G:O2'	2:AA:216:A:P	2.76	0.43
2:AA:234:C:H2'	2:AA:235:U:C5'	2.48	0.43
2:AA:292:C:N3	2:AA:348:G:C6	2.84	0.43
2:AA:297:C:C4	2:AA:298:G:N3	2.86	0.43
2:AA:298:G:O6	2:AA:338:G:H4'	2.17	0.43
2:AA:311:A:O5'	2:AA:312:G:N7	2.52	0.43
2:AA:363(D):G:HO2'	2:AA:363(E):U:H5'	1.78	0.43
2:AA:370:G:C6	2:AA:424:G:N7	2.87	0.43
2:AA:371:A:C2'	2:AA:372:G:N7	2.74	0.43
2:AA:413:C:N4	2:AA:2410:G:N1	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:421:U:OP2	2:AA:421:U:H6	2.00	0.43
2:AA:462:C:O5'	2:AA:462:C:H6	2.01	0.43
2:AA:502:A:C8	2:AA:502:A:C3'	3.01	0.43
2:AA:583:G:H8	2:AA:583:G:O5'	2.01	0.43
2:AA:607:U:H5'	2:AA:608:A:OP2	2.18	0.43
2:AA:636:G:H5'	2:AA:639:U:OP1	2.18	0.43
2:AA:682:G:H5'	31:A7:26:SER:HB3	2.00	0.43
2:AA:711:G:N2	2:AA:720:C:C2	2.83	0.43
2:AA:721:C:C4	2:AA:722:A:N7	2.86	0.43
2:AA:729:G:H1'	2:AA:763:G:C4'	2.46	0.43
2:AA:744:G:OP1	5:AE:229:GLN:O	2.37	0.43
2:AA:799:G:C6	2:AA:800:A:C6	3.07	0.43
2:AA:810:U:OP1	2:AA:1253:A:C8	2.71	0.43
2:AA:831:G:N1	2:AA:832:G:N3	2.66	0.43
2:AA:850:C:H5''	23:AX:18:ASP:CB	2.46	0.43
2:AA:920:G:N2	2:AA:921:G:C4	2.87	0.43
2:AA:979:G:C4	2:AA:982:C:N4	2.86	0.43
2:AA:1022:G:N1	2:AA:1139:G:C2	2.86	0.43
2:AA:1221:C:H2'	2:AA:1222:C:O5'	2.17	0.43
2:AA:1233:C:C2'	2:AA:1234:U:C5'	2.96	0.43
2:AA:1298:C:C5'	2:AA:1302:A:N6	2.81	0.43
2:AA:1301:A:O2'	2:AA:1302:A:P	2.77	0.43
2:AA:1320:C:H42	2:AA:1330:C:N4	2.15	0.43
2:AA:1324:G:N2	2:AA:1328:G:N2	2.63	0.43
2:AA:1356:G:N2	2:AA:1357:U:C2	2.86	0.43
2:AA:1379:A:N3	2:AA:1379:A:H2'	2.32	0.43
2:AA:1497:U:O4	2:AA:1498:C:H5	2.00	0.43
2:AA:1526:G:O3'	2:AA:1527:G:O4'	2.37	0.43
2:AA:1534:G:H21	2:AA:1535:U:C5'	2.27	0.43
2:AA:1559:G:C6	2:AA:1560:G:O5'	2.70	0.43
2:AA:1625:C:C2'	2:AA:1626:G:H5'	2.45	0.43
2:AA:1663:C:H6	2:AA:1663:C:H3'	1.83	0.43
2:AA:1689:A:C2	2:AA:1690:A:N7	2.86	0.43
2:AA:1730:U:O2'	2:AA:1731:G:C8	2.70	0.43
2:AA:1769:G:C6	2:AA:1984:G:O6	2.71	0.43
2:AA:1785:A:C8	2:AA:1785:A:C4'	3.01	0.43
2:AA:1787:A:C2	2:AA:1788:C:C2	3.07	0.43
2:AA:1878:G:H2'	2:AA:1879:C:O5'	2.19	0.43
2:AA:1917:U:C5	2:AA:1918:A:C8	3.06	0.43
2:AA:1927:A:C5	2:AA:1928:A:C2	3.06	0.43
2:AA:1978:A:N6	2:AA:1979:C:N4	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2008:C:N4	2:AA:2009:G:O6	2.51	0.43
2:AA:2021:C:OP2	29:A5:15:LYS:CE	2.66	0.43
2:AA:2040:C:C2	2:AA:2041:U:C6	3.07	0.43
2:AA:2044:C:OP2	2:AA:2044:C:H3'	2.18	0.43
2:AA:2046:G:OP1	29:A5:19:ARG:N	2.51	0.43
2:AA:2056:G:N7	2:AA:2577:A:C4	2.87	0.43
2:AA:2074:U:C2	2:AA:2075:U:C5	3.07	0.43
2:AA:2075:U:O2'	2:AA:2076:U:H3'	2.17	0.43
2:AA:2124:G:C5'	2:AA:2125:G:OP2	2.67	0.43
2:AA:2131:G:H5''	3:AC:6:ARG:HB3	1.98	0.43
2:AA:2132:U:OP2	3:AC:5:LYS:CA	2.66	0.43
2:AA:2174:C:OP2	3:AC:7:TYR:HE2	2.01	0.43
2:AA:2199:A:OP2	2:AA:2205:C:H5	2.00	0.43
2:AA:2228:G:C5	2:AA:2229:C:C2	3.06	0.43
2:AA:2232:U:O2'	2:AA:2233:U:C5'	2.56	0.43
2:AA:2259:G:O4'	2:AA:2427:C:C5	2.72	0.43
2:AA:2300:G:C2'	2:AA:2301:C:H5'	2.48	0.43
2:AA:2312:U:O2	7:AG:72:LYS:NZ	2.50	0.43
2:AA:2314:C:C5'	7:AG:22:VAL:HG11	2.37	0.43
2:AA:2347:C:C4'	30:A6:40:TYR:OH	2.59	0.43
2:AA:2379:G:C2	2:AA:2380:C:C2	3.06	0.43
2:AA:2524:G:H2'	2:AA:2525:G:O4'	2.18	0.43
2:AA:2552:U:N3	2:AA:2554:U:H5'	2.33	0.43
2:AA:2562:U:O4	2:AA:2563:U:C4	2.71	0.43
2:AA:2588:G:N2	2:AA:2607:G:C4	2.86	0.43
2:AA:2682:U:C4	2:AA:2683:C:C5	3.06	0.43
2:AA:2758:A:OP2	2:AA:2758:A:N9	2.51	0.43
2:AA:2794:C:C2	2:AA:2802:G:N2	2.84	0.43
2:AA:2811:G:O2'	2:AA:2812:G:C5'	2.66	0.43
3:AC:103:ILE:CG2	3:AC:130:ILE:CG2	2.95	0.43
3:AC:156:ILE:O	3:AC:157:LYS:HB2	2.18	0.43
4:AD:71:ASP:CB	4:AD:119:PRO:HD2	2.48	0.43
4:AD:154:VAL:HG13	4:AD:157:ALA:O	2.18	0.43
4:AD:194:VAL:HG21	4:AD:196:ASN:HD21	1.78	0.43
5:AE:44:TYR:HB2	5:AE:74:GLU:CG	2.48	0.43
5:AE:61:PRO:HB3	5:AE:69:PRO:HB3	1.97	0.43
5:AE:73:ILE:HG22	5:AE:74:GLU:N	2.34	0.43
5:AE:269:ILE:HD11	5:AE:296:VAL:C	2.43	0.43
6:AF:48:SER:O	6:AF:48:SER:OG	2.28	0.43
6:AF:53:GLY:C	6:AF:54:LEU:CD1	2.91	0.43
6:AF:141:SER:OG	6:AF:144:PHE:HE1	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:231:ARG:O	6:AF:232:LEU:CG	2.66	0.43
6:AF:240:LEU:HD22	6:AF:243:VAL:HG21	2.00	0.43
7:AG:76:ARG:C	7:AG:80:ALA:HB3	2.43	0.43
7:AG:141:VAL:CA	7:AG:144:ARG:HH11	2.30	0.43
8:AH:19:ASN:C	8:AH:21:ASN:N	2.76	0.43
8:AH:29:LYS:HE3	8:AH:80:LYS:C	2.43	0.43
8:AH:30:GLY:HA3	8:AH:78:VAL:O	2.18	0.43
8:AH:55:SER:C	8:AH:57:GLU:H	2.25	0.43
8:AH:57:GLU:HG2	8:AH:57:GLU:H	1.62	0.43
9:AI:64:LYS:O	9:AI:65:SER:HB3	2.18	0.43
9:AJ:106:VAL:CG1	9:AJ:110:GLU:CB	2.95	0.43
10:AK:40:THR:O	10:AK:42:ALA:N	2.51	0.43
10:AK:47:LEU:CD1	10:AK:48:GLU:N	2.81	0.43
10:AK:112:LYS:O	10:AK:113:ARG:C	2.60	0.43
11:AL:125:MET:O	11:AL:128:ILE:CB	2.59	0.43
12:AM:44:ALA:HB3	12:AM:132:LEU:HB3	2.00	0.43
12:AM:65:ASN:O	12:AM:66:ASP:C	2.61	0.43
12:AM:75:PRO:HG2	12:AM:76:ASP:OD2	2.18	0.43
13:AN:49:GLY:CA	13:AN:53:LYS:HG2	2.48	0.43
14:AO:62:ALA:CB	14:AO:104:ASP:O	2.66	0.43
14:AO:77:ALA:HA	14:AO:81:VAL:CG1	2.48	0.43
14:AO:94:ARG:HD3	14:AO:120:LEU:CA	2.48	0.43
15:AP:48:ASN:ND2	15:AP:122:PHE:O	2.52	0.43
15:AP:135:ALA:HA	15:AP:138:ARG:HD2	1.99	0.43
16:AQ:22:GLN:CA	16:AQ:25:ARG:HB3	2.47	0.43
16:AQ:34:LEU:HD23	16:AQ:101:VAL:N	2.33	0.43
16:AQ:47:LEU:CD1	16:AQ:58:LEU:HD21	2.46	0.43
18:AS:19:LEU:HD22	29:A5:25:LEU:CB	2.47	0.43
20:AU:47:THR:O	20:AU:98:VAL:HG13	2.17	0.43
21:AV:19:ILE:CG1	21:AV:79:ILE:HA	2.43	0.43
22:AW:2:VAL:N	22:AW:4:HIS:HE1	2.16	0.43
22:AW:19:GLU:HG2	22:AW:23:LEU:HD21	2.00	0.43
23:AX:42:ALA:HB3	23:AX:43:ILE:CD1	2.47	0.43
24:A0:100:LEU:O	29:A5:44:HIS:CD2	2.71	0.43
25:A1:58:ARG:O	25:A1:62:ILE:CG1	2.59	0.43
27:A3:25:LYS:HG2	27:A3:59:LEU:H	1.82	0.43
28:A4:10:VAL:H	28:A4:11:PRO:HD3	1.83	0.43
28:A4:39:VAL:O	28:A4:40:HIS:CG	2.70	0.43
28:A4:48:ARG:N	28:A4:52:THR:HG1	2.06	0.43
28:A4:59:PHE:N	28:A4:62:ARG:NE	2.66	0.43
32:A8:23:MET:HE3	32:A8:23:MET:HB2	1.77	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:37:U:H5'	34:BA:501:C:OP1	2.19	0.43
34:BA:68:G:H5'	34:BA:171:A:O2'	2.18	0.43
34:BA:84:U:O2'	34:BA:88:A:H5'	2.18	0.43
34:BA:98:U:O2'	34:BA:99:C:C5'	2.65	0.43
34:BA:102:G:H2'	34:BA:103:C:H6	1.83	0.43
34:BA:134:A:H1'	34:BA:325:A:C6	2.53	0.43
34:BA:145:G:O2'	34:BA:146:G:H5'	2.19	0.43
34:BA:149:A:C2	34:BA:150:C:C2	3.06	0.43
34:BA:163:C:O2'	34:BA:164:U:O4'	2.37	0.43
34:BA:191:G:C4	34:BA:192:U:C5	3.06	0.43
34:BA:197:A:H62	34:BA:221:C:C5'	2.30	0.43
34:BA:229:U:C4	34:BA:230:G:C5	3.06	0.43
34:BA:311:C:C2	34:BA:312:C:C6	3.07	0.43
34:BA:430:A:P	39:BG:9:CYS:H	2.40	0.43
34:BA:444:C:C2	34:BA:491:G:N2	2.86	0.43
34:BA:445:G:H8	34:BA:445:G:O5'	2.01	0.43
34:BA:564:C:OP2	34:BA:565:U:OP2	2.36	0.43
34:BA:597:G:C5	34:BA:598:U:C6	3.06	0.43
34:BA:609:A:O2'	34:BA:610:G:C5'	2.67	0.43
34:BA:626:U:C2'	34:BA:627:G:C8	2.83	0.43
34:BA:627:G:C2'	34:BA:628:G:O5'	2.67	0.43
34:BA:645:C:C4	34:BA:646:U:C4	3.06	0.43
34:BA:682:G:H1	34:BA:708:C:H42	1.67	0.43
34:BA:720:C:C5	34:BA:720:C:OP2	2.70	0.43
34:BA:766:A:C8	34:BA:814:A:C6	3.04	0.43
34:BA:778:G:C2	34:BA:779:C:C5	3.07	0.43
34:BA:821:G:C4	34:BA:822:C:C6	3.06	0.43
34:BA:922:G:C2	34:BA:923:A:C4	3.06	0.43
34:BA:950:U:N3	34:BA:951:G:C8	2.86	0.43
34:BA:951:G:N3	34:BA:970:C:O2'	2.36	0.43
34:BA:964:A:H5'	34:BA:1199:U:OP1	2.19	0.43
34:BA:981:U:C6	34:BA:981:U:C3'	3.02	0.43
34:BA:1052:U:H3	34:BA:1207:G:H1	1.59	0.43
34:BA:1076:C:C4	34:BA:1082:G:N1	2.85	0.43
34:BA:1114:C:C2	34:BA:1187:G:C2	3.07	0.43
34:BA:1281:U:O2'	34:BA:1282:C:OP1	2.32	0.43
34:BA:1292:U:O2'	34:BA:1293:G:H5'	2.18	0.43
34:BA:1329:A:C5'	48:BP:29:ARG:CG	2.95	0.43
34:BA:1334:G:H2'	34:BA:1335:C:O5'	2.18	0.43
34:BA:1386:G:C6	34:BA:1387:G:N7	2.87	0.43
34:BA:1500:A:OP1	34:BA:1505:G:OP1	2.36	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:23:A:C2	35:BB:24:G:N1	2.86	0.43
35:BB:57:G:O2'	35:BB:58:A:H5''	2.17	0.43
37:BE:208:ILE:CA	37:BE:211:ILE:HB	2.47	0.43
37:BE:215:LEU:HA	37:BE:215:LEU:HD22	1.50	0.43
38:BF:21:ARG:C	38:BF:22:TRP:CD1	2.97	0.43
38:BF:35:GLU:O	38:BF:38:ARG:N	2.51	0.43
38:BF:122:GLU:O	38:BF:125:GLU:CB	2.63	0.43
38:BF:180:ALA:O	38:BF:181:ASN:HB3	2.18	0.43
39:BG:34:GLU:O	39:BG:35:ARG:CB	2.66	0.43
39:BG:43:HIS:C	39:BG:45:GLN:N	2.75	0.43
39:BG:70:ILE:O	39:BG:71:SER:O	2.35	0.43
39:BG:125:HIS:ND1	39:BG:125:HIS:N	2.65	0.43
39:BG:153:ARG:HB3	39:BG:181:MET:CE	2.48	0.43
39:BG:170:VAL:CG1	39:BG:174:LEU:HB2	2.48	0.43
39:BG:189:PRO:HB2	39:BG:194:LEU:HD21	1.99	0.43
41:BI:29:ALA:HA	41:BI:32:ASN:OD1	2.18	0.43
42:BJ:50:ILE:O	42:BJ:54:THR:O	2.35	0.43
42:BJ:102:ARG:HE	42:BJ:102:ARG:HB2	1.52	0.43
44:BL:28:VAL:CG2	44:BL:33:PHE:HA	2.46	0.43
44:BL:55:ALA:HB3	44:BL:58:ARG:NH2	2.32	0.43
45:BM:51:ARG:H	45:BM:59:SER:HB3	1.82	0.43
45:BM:60:ARG:NH1	45:BM:60:ARG:CG	2.81	0.43
46:BN:12:ARG:HH11	46:BN:75:TYR:HE2	1.65	0.43
46:BN:83:ILE:N	46:BN:83:ILE:CD1	2.81	0.43
47:BO:21:LYS:O	47:BO:22:SER:C	2.61	0.43
47:BO:42:THR:HG21	47:BO:52:LEU:HD13	2.00	0.43
48:BP:81:LEU:HA	48:BP:84:ILE:CG1	2.45	0.43
48:BP:98:VAL:H	48:BP:110:ARG:NH2	2.16	0.43
51:BS:31:LYS:HB3	51:BS:31:LYS:HE2	1.70	0.43
52:BT:29:HIS:HB3	52:BT:32:TYR:N	2.32	0.43
52:BT:67:LYS:O	52:BT:68:ARG:HB3	2.18	0.43
55:BW:101:GLY:O	55:BW:104:LEU:O	2.37	0.43
56:BX:11:GLY:O	56:BX:12:LYS:C	2.60	0.43
1:AB:9:G:N7	1:AB:112:G:O6	2.51	0.43
1:AB:38:C:H2'	1:AB:39:A:C8	2.53	0.43
2:AA:14:A:N7	2:AA:15:G:N9	2.67	0.43
2:AA:16:G:C5'	29:A5:18:MET:SD	3.06	0.43
2:AA:69:C:O2	2:AA:69:C:C2'	2.56	0.43
2:AA:134:C:H2'	2:AA:135:G:C5'	2.48	0.43
2:AA:162:U:H4'	2:AA:171:G:C2	2.53	0.43
2:AA:201:C:C4	2:AA:202:U:C4	3.07	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:260:G:O2'	2:AA:608:A:N1	2.51	0.43
2:AA:270(Q):C:C4	2:AA:270(R):G:C8	3.05	0.43
2:AA:270(R):G:N2	2:AA:270(S):G:C4	2.86	0.43
2:AA:281:G:C8	2:AA:281:G:P	3.11	0.43
2:AA:336:C:H2'	2:AA:337:C:O5'	2.18	0.43
2:AA:361:G:H5''	2:AA:362:U:OP1	2.19	0.43
2:AA:389:G:O4'	2:AA:2413:G:H4'	2.19	0.43
2:AA:396:G:OP1	28:A4:10:VAL:HA	2.18	0.43
2:AA:461:C:H42	2:AA:469:G:N2	2.14	0.43
2:AA:478:A:C6	2:AA:480:A:C5	3.06	0.43
2:AA:484:C:C2	2:AA:485:C:C5	3.06	0.43
2:AA:535:C:O2'	25:A1:53:LYS:HG2	2.18	0.43
2:AA:556:G:H2'	2:AA:557:U:H6	1.83	0.43
2:AA:591:C:C5	2:AA:592:G:N7	2.86	0.43
2:AA:656:G:C5	2:AA:657:U:C4	3.06	0.43
2:AA:668:G:C2	2:AA:670:A:C6	3.07	0.43
2:AA:672:C:C2'	2:AA:673:C:O5'	2.67	0.43
2:AA:729:G:C8	4:AD:207:ALA:HB1	2.53	0.43
2:AA:729:G:C5	4:AD:207:ALA:HA	2.52	0.43
2:AA:785:G:N3	2:AA:786:C:C5	2.86	0.43
2:AA:827:U:C5	2:AA:2430:A:C6	3.06	0.43
2:AA:858:U:C2'	2:AA:2268:A:C2'	2.93	0.43
2:AA:861:A:N7	2:AA:862:G:N7	2.66	0.43
2:AA:874:G:OP1	21:AV:172:LEU:HD12	2.18	0.43
2:AA:879:G:C2	2:AA:880:G:N9	2.87	0.43
2:AA:893:C:C2	2:AA:894:C:C5	3.06	0.43
2:AA:910:A:N6	15:AP:12:PRO:O	2.52	0.43
2:AA:974:G:H3'	26:A2:82:ARG:NH1	2.33	0.43
2:AA:997:G:O3'	25:A1:92:ARG:NH1	2.51	0.43
2:AA:1080:C:C2'	2:AA:1081:U:H5'	2.49	0.43
2:AA:1082:U:H3'	2:AA:1083:U:H6	1.83	0.43
2:AA:1083:U:C3'	9:AI:37:VAL:N	2.74	0.43
2:AA:1129:A:N3	2:AA:2570:G:H1'	2.30	0.43
2:AA:1152:C:O2'	25:A1:80:ILE:CD1	2.67	0.43
2:AA:1160:G:C5	2:AA:1161:C:N4	2.86	0.43
2:AA:1171:G:H2'	2:AA:1173:G:C4'	2.46	0.43
2:AA:1257:C:N3	2:AA:1258:C:C5	2.86	0.43
2:AA:1425:G:H2'	2:AA:1426:G:N7	2.29	0.43
2:AA:1455:G:C5	2:AA:1456:G:C8	3.07	0.43
2:AA:1522:G:N2	2:AA:1523:U:N1	2.66	0.43
2:AA:1587:A:C5	2:AA:1588:C:N4	2.86	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1588:C:HO2'	2:AA:1589:C:H5'	1.80	0.43
2:AA:1591:G:C6	2:AA:1592:C:C4	3.06	0.43
2:AA:1689:A:N1	2:AA:1700:A:N1	2.67	0.43
2:AA:1757:U:O2	2:AA:1757:U:C2'	2.65	0.43
2:AA:1766:U:H2'	2:AA:1767:C:C6	2.54	0.43
2:AA:1824:G:H2'	2:AA:1825:A:C4'	2.48	0.43
2:AA:1858:G:N2	2:AA:1885:A:N7	2.66	0.43
2:AA:1891:G:H2'	2:AA:1892:C:C6	2.54	0.43
2:AA:1919:A:O3'	34:BA:1517:G:C1'	2.62	0.43
2:AA:1944:U:H4'	2:AA:1955:U:H1'	1.99	0.43
2:AA:1989:G:C5	2:AA:1990:C:C6	3.05	0.43
2:AA:2000:G:C6	2:AA:2001:A:C5	3.06	0.43
2:AA:2032:G:C6	2:AA:2454:G:H4'	2.54	0.43
2:AA:2046:G:C6	2:AA:2623:G:C6	3.06	0.43
2:AA:2051:A:C5	2:AA:2614:A:C5	3.06	0.43
2:AA:2122:U:C2'	2:AA:2123:G:H5'	2.46	0.43
2:AA:2178:C:OP2	2:AA:2178:C:H6	2.01	0.43
2:AA:2179:C:OP1	2:AA:2180:U:OP2	2.36	0.43
2:AA:2195:C:O2'	2:AA:2196:C:H4'	2.17	0.43
2:AA:2273:A:C8	2:AA:2274:A:O4'	2.63	0.43
2:AA:2303:G:N1	2:AA:2304:G:C5	2.86	0.43
2:AA:2307:G:C2'	2:AA:2311:A:N6	2.81	0.43
2:AA:2312:U:C4	2:AA:2313:C:C4	3.06	0.43
2:AA:2453:A:O2'	2:AA:2572:A:H1'	2.19	0.43
2:AA:2508:G:OP1	35:BB:75:C:O2	2.36	0.43
2:AA:2551:C:O2'	2:AA:2552:U:H5'	2.18	0.43
2:AA:2563:U:O2	2:AA:2566:A:N7	2.52	0.43
2:AA:2589:A:N1	2:AA:2606:C:C4	2.87	0.43
2:AA:2618:G:O2'	2:AA:2619:C:C5'	2.66	0.43
2:AA:2628:C:O4'	2:AA:2781:A:C2	2.72	0.43
2:AA:2756:U:C4	2:AA:2759:G:O6	2.71	0.43
2:AA:2825:C:N3	2:AA:2826:A:C5	2.86	0.43
2:AA:2838:G:H4'	24:A0:45:ARG:HH22	1.83	0.43
2:AA:2850:A:C2	24:A0:61:HIS:CE1	3.06	0.43
2:AA:2851:A:C8	24:A0:61:HIS:NE2	2.84	0.43
3:AC:20:TYR:CE1	3:AC:222:VAL:CG2	2.97	0.43
3:AC:89:ALA:CA	3:AC:154:ARG:HH12	2.24	0.43
3:AC:208:PHE:HB3	3:AC:209:LEU:H	1.65	0.43
4:AD:85:ASN:C	4:AD:86:ARG:CD	2.90	0.43
4:AD:85:ASN:O	4:AD:86:ARG:HB3	2.19	0.43
5:AE:268:LEU:HG	5:AE:296:VAL:CG2	2.23	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:1:MET:HB2	6:AF:2:GLU:H	1.56	0.43
6:AF:158:GLU:N	6:AF:158:GLU:CD	2.74	0.43
7:AG:67:ASP:O	7:AG:68:PRO:C	2.58	0.43
8:AH:43:THR:CB	8:AH:50:THR:O	2.67	0.43
8:AH:102:LEU:CG	8:AH:104:LEU:HD11	2.48	0.43
9:AI:69:ASN:HB3	9:AI:72:GLN:CG	2.47	0.43
10:AK:23:ASP:HB3	10:AK:24:GLY:H	1.52	0.43
10:AK:69:LYS:O	10:AK:73:GLU:CG	2.63	0.43
10:AK:88:ARG:HG2	10:AK:123:ALA:CA	2.49	0.43
10:AK:110:LEU:CD2	10:AK:110:LEU:C	2.88	0.43
10:AK:120:ALA:C	10:AK:121:ILE:HD12	2.43	0.43
11:AL:79:LEU:HD11	11:AL:132:ALA:HB2	2.00	0.43
11:AL:96:ILE:CG2	11:AL:138:GLU:OE2	2.66	0.43
11:AL:113:MET:HA	11:AL:116:LEU:HB3	1.99	0.43
12:AM:47:THR:O	12:AM:48:GLY:O	2.36	0.43
12:AM:52:GLN:HB3	12:AM:55:GLU:OE2	2.18	0.43
12:AM:54:VAL:CA	12:AM:135:ILE:HD12	2.49	0.43
12:AM:58:GLU:O	12:AM:61:VAL:CA	2.66	0.43
12:AM:135:ILE:HG23	12:AM:139:LEU:CD1	2.48	0.43
13:AN:88:ARG:O	13:AN:90:ASP:O	2.36	0.43
13:AN:92:SER:HB3	13:AN:113:LYS:HZ2	1.82	0.43
14:AO:123:ASP:O	14:AO:124:ASP:OD2	2.36	0.43
15:AP:17:ARG:HA	15:AP:22:GLY:CA	2.41	0.43
15:AP:35:ASN:HB2	15:AP:75:SER:HA	2.00	0.43
16:AQ:11:ARG:HG3	16:AQ:12:ARG:H	1.82	0.43
16:AQ:43:VAL:C	16:AQ:44:ARG:CG	2.91	0.43
16:AQ:55:ASP:HB2	16:AQ:56:ASP:H	1.59	0.43
18:AS:84:ARG:N	18:AS:95:ILE:HG23	2.33	0.43
19:AT:4:VAL:HB	19:AT:5:ILE:H	1.44	0.43
20:AU:49:GLU:HB3	20:AU:97:ARG:HH11	1.83	0.43
20:AU:90:PRO:HG2	20:AU:90:PRO:O	2.17	0.43
20:AU:93:THR:OG1	20:AU:94:SER:N	2.52	0.43
21:AV:3:LEU:CD2	21:AV:34:LEU:O	2.66	0.43
21:AV:126:GLY:O	21:AV:129:ARG:CB	2.61	0.43
23:AX:57:GLU:HG2	23:AX:58:VAL:N	2.32	0.43
24:A0:86:ARG:HH12	24:A0:118:GLU:CD	2.21	0.43
25:A1:25:TRP:O	25:A1:27:SER:N	2.51	0.43
28:A4:11:PRO:HA	28:A4:40:HIS:HD2	1.78	0.43
30:A6:17:GLY:O	30:A6:18:THR:CG2	2.63	0.43
31:A7:34:ARG:HH11	31:A7:42:LEU:HA	1.81	0.43
32:A8:5:LYS:N	32:A8:5:LYS:CD	2.74	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:20:U:H6	34:BA:20:U:O5'	2.00	0.43
34:BA:145:G:C2'	34:BA:146:G:H5'	2.49	0.43
34:BA:161:A:H2'	34:BA:162:A:H8	1.83	0.43
34:BA:241:C:C2'	34:BA:242:C:O5'	2.66	0.43
34:BA:246:A:C4	34:BA:282:A:N6	2.87	0.43
34:BA:261:U:C5	55:BW:79:ARG:NH2	2.87	0.43
34:BA:320:C:O2'	34:BA:321:A:O5'	2.37	0.43
34:BA:510:A:O2'	34:BA:542:G:H2'	2.18	0.43
34:BA:522:C:O3'	47:BO:120:TYR:OH	2.36	0.43
34:BA:544:G:N2	34:BA:549:C:H4'	2.34	0.43
34:BA:569:C:O4'	34:BA:574:A:N1	2.51	0.43
34:BA:573:A:H2'	34:BA:574:A:H8	1.68	0.43
34:BA:608:A:C2	34:BA:609:A:N9	2.86	0.43
34:BA:658:G:C5	34:BA:659:U:C6	3.06	0.43
34:BA:682:G:C8	34:BA:682:G:O5'	2.72	0.43
34:BA:723:U:C5	34:BA:723:U:P	3.12	0.43
34:BA:757:U:H5'	34:BA:878:G:H22	1.76	0.43
34:BA:761:G:C4'	52:BT:103:GLY:H	2.28	0.43
34:BA:860:A:N6	34:BA:869:G:O2'	2.52	0.43
34:BA:920:U:C4	34:BA:921:U:C5	3.06	0.43
34:BA:947:G:H21	34:BA:948:C:H1'	1.83	0.43
34:BA:959:A:N1	34:BA:1221:G:O2'	2.36	0.43
34:BA:964:A:H2'	34:BA:965:A:C8	2.53	0.43
34:BA:979:C:OP1	34:BA:981:U:O4	2.37	0.43
34:BA:982:U:OP1	34:BA:982:U:H6	2.02	0.43
34:BA:993:G:C2'	34:BA:994:A:OP1	2.66	0.43
34:BA:1060:C:C5'	45:BM:52:GLY:H	2.27	0.43
34:BA:1066:C:H3'	34:BA:1067:A:H8	1.83	0.43
34:BA:1068:G:O6	34:BA:1108:G:C2	2.72	0.43
34:BA:1091:U:C5	34:BA:1093:A:OP2	2.71	0.43
34:BA:1109:C:OP1	38:BF:176:HIS:NE2	2.51	0.43
34:BA:1239:A:H62	34:BA:1299:A:H61	1.61	0.43
34:BA:1260:C:H4'	34:BA:1284:C:C5'	2.47	0.43
34:BA:1300:G:O2'	34:BA:1301:U:H6	2.02	0.43
34:BA:1421:G:C2'	34:BA:1422:G:H5'	2.48	0.43
34:BA:1438:G:H2'	34:BA:1439:C:H6	1.83	0.43
34:BA:1479:C:H3'	34:BA:1479:C:C6	2.53	0.43
34:BA:1480:G:H2'	34:BA:1481:U:H5'	2.01	0.43
35:BB:1:G:C2	35:BB:73:A:C4	3.06	0.43
35:BB:56:C:N4	35:BB:57:G:C6	2.87	0.43
35:BB:58:A:H2'	35:BB:59:U:H5''	1.99	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:4:G:H2'	35:BC:5:A:H8	1.83	0.43
35:BC:4:G:N7	35:BC:5:A:N7	2.66	0.43
37:BE:28:PHE:HD1	37:BE:31:TYR:CB	2.30	0.43
37:BE:50:GLU:C	37:BE:52:GLU:N	2.73	0.43
37:BE:69:LEU:C	37:BE:69:LEU:CD1	2.88	0.43
37:BE:105:PHE:HA	37:BE:108:ILE:HG12	2.00	0.43
37:BE:189:ASP:HB2	37:BE:191:ASP:OD1	2.19	0.43
38:BF:16:ARG:NH2	38:BF:184:TYR:N	2.42	0.43
38:BF:30:ARG:O	38:BF:31:HIS:C	2.59	0.43
38:BF:71:ALA:CB	38:BF:109:PRO:HG3	2.49	0.43
38:BF:191:THR:CG2	38:BF:196:LEU:HD11	2.48	0.43
39:BG:120:LEU:HA	39:BG:125:HIS:CD2	2.54	0.43
40:BH:103:GLY:C	40:BH:107:ARG:NH2	2.76	0.43
40:BH:109:ILE:HG21	40:BH:135:THR:CG2	2.47	0.43
40:BH:116:THR:O	40:BH:117:ASP:CG	2.61	0.43
41:BI:27:GLN:HA	41:BI:27:GLN:OE1	2.19	0.43
43:BK:6:ILE:CD1	43:BK:10:LEU:CD1	2.94	0.43
44:BL:5:TYR:CZ	44:BL:16:ARG:HG3	2.51	0.43
44:BL:26:VAL:HG13	44:BL:61:ALA:O	2.18	0.43
44:BL:66:ARG:HG2	44:BL:67:GLY:H	1.83	0.43
46:BN:64:ALA:C	46:BN:66:LEU:N	2.71	0.43
46:BN:111:ASP:OD2	46:BN:113:PRO:CG	2.66	0.43
47:BO:87:GLY:C	47:BO:99:HIS:CE1	2.96	0.43
48:BP:21:TYR:N	48:BP:21:TYR:CD2	2.84	0.43
48:BP:48:LEU:HD23	48:BP:49:THR:N	2.32	0.43
49:BQ:42:ILE:HG22	49:BQ:46:GLU:CD	2.44	0.43
50:BR:27:VAL:O	50:BR:31:LEU:CB	2.64	0.43
51:BS:20:VAL:CG2	51:BS:32:TYR:CD2	2.86	0.43
52:BT:32:TYR:O	52:BT:33:GLY:C	2.59	0.43
52:BT:44:ALA:HA	52:BT:71:PHE:O	2.18	0.43
54:BV:11:VAL:HG12	54:BV:16:LEU:HD13	2.00	0.43
55:BW:73:HIS:HD2	55:BW:74:LYS:CE	2.30	0.43
2:AA:136:G:C4	2:AA:137:C:O2'	2.72	0.43
2:AA:201:C:H4'	2:AA:386:G:C6	2.54	0.43
2:AA:206:U:C2'	2:AA:207:A:H5'	2.48	0.43
2:AA:252:G:C2	2:AA:253:C:N1	2.86	0.43
2:AA:265:A:N6	2:AA:428:A:C8	2.87	0.43
2:AA:272:G:C2	2:AA:273:G:N3	2.87	0.43
2:AA:301:G:C5'	2:AA:334:C:HO2'	2.31	0.43
2:AA:434:U:H6	2:AA:434:U:P	2.42	0.43
2:AA:458:G:H2'	31:A7:40:HIS:NE2	2.34	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:475:U:OP2	2:AA:475:U:C6	2.69	0.43
2:AA:475:U:O4	2:AA:481:G:N1	2.51	0.43
2:AA:605:C:P	6:AF:105:LYS:HD3	2.59	0.43
2:AA:612:G:C2	2:AA:615:G:N2	2.86	0.43
2:AA:646:A:O2'	2:AA:647:G:O4'	2.24	0.43
2:AA:744:G:N2	2:AA:754:C:N1	2.67	0.43
2:AA:747:U:O5'	2:AA:747:U:C6	2.71	0.43
2:AA:793:A:OP2	2:AA:793:A:O4'	2.36	0.43
2:AA:806:C:H6	2:AA:806:C:OP2	2.01	0.43
2:AA:814:C:H4'	2:AA:1224:G:N2	2.33	0.43
2:AA:980:A:C6	2:AA:1135:C:C4'	3.01	0.43
2:AA:1052:C:O2	2:AA:1053:C:C6	2.72	0.43
2:AA:1053:C:H2'	2:AA:1054:A:O4'	2.18	0.43
2:AA:1055:G:C1'	9:AI:28:LYS:HZ3	2.29	0.43
2:AA:1162:G:N2	26:A2:90:PHE:CD2	2.86	0.43
2:AA:1231:G:H3'	2:AA:1231:G:C8	2.54	0.43
2:AA:1300:U:O2'	2:AA:1301:A:OP2	2.34	0.43
2:AA:1466:G:H2'	2:AA:1547:C:H5	1.80	0.43
2:AA:1524:G:C6	2:AA:1525:G:C5	3.06	0.43
2:AA:1579:A:C2'	2:AA:1580:A:H5'	2.49	0.43
2:AA:1605:C:O2	2:AA:1610:A:H2'	2.18	0.43
2:AA:1746:G:O5'	2:AA:1747:G:P	2.76	0.43
2:AA:1812:A:C6	2:AA:1813:G:C5	3.07	0.43
2:AA:1942:C:N1	2:AA:1943:U:H5	2.17	0.43
2:AA:2004:G:O6	2:AA:2005:A:N1	2.51	0.43
2:AA:2009:G:C2'	2:AA:2010:G:H5'	2.49	0.43
2:AA:2044:C:C5	2:AA:2625:G:C2	3.07	0.43
2:AA:2140:C:C2	2:AA:2152:G:N2	2.87	0.43
2:AA:2208:U:O5'	2:AA:2208:U:O3'	2.35	0.43
2:AA:2216:G:H2'	2:AA:2217:G:H5'	1.98	0.43
2:AA:2218:G:N1	2:AA:2219:G:C5	2.86	0.43
2:AA:2274:A:O5'	2:AA:2275:C:OP2	2.37	0.43
2:AA:2295:C:N4	2:AA:2337:G:C6	2.85	0.43
2:AA:2432:A:H2	2:AA:2433:A:C5	2.37	0.43
2:AA:2472:G:H2'	2:AA:2475:C:C4	2.46	0.43
2:AA:2478:A:N7	2:AA:2479:G:C5	2.86	0.43
2:AA:2509:G:C6	2:AA:2580:U:N3	2.87	0.43
2:AA:2522:U:C5'	2:AA:2523:G:OP2	2.66	0.43
2:AA:2547:U:C6	2:AA:2566:A:C5	3.06	0.43
2:AA:2711:A:P	2:AA:712(A):A:OP2	2.77	0.43
2:AA:2732:G:C5'	2:AA:2733:A:O5'	2.64	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2743:C:C4	2:AA:2762:G:C6	3.06	0.43
2:AA:2782:G:C8	2:AA:2782:G:O5'	2.71	0.43
2:AA:2840:C:H4'	24:A0:53:HIS:NE2	2.33	0.43
2:AA:2845:G:C6	2:AA:2871:C:N3	2.86	0.43
3:AC:117:PRO:HG3	3:AC:145:VAL:HG13	2.00	0.43
3:AC:198:ALA:O	3:AC:199:HIS:C	2.61	0.43
4:AD:62:ARG:HD3	4:AD:62:ARG:N	2.34	0.43
4:AD:90:ILE:HG23	4:AD:91:ALA:H	1.81	0.43
4:AD:202:LYS:HG3	4:AD:203:PRO:HD2	2.00	0.43
5:AE:73:ILE:O	5:AE:293:TYR:CD2	2.71	0.43
5:AE:222:ARG:HG2	5:AE:232:ARG:N	2.33	0.43
6:AF:149:LYS:H	6:AF:152:GLU:CD	2.27	0.43
7:AG:15:GLU:HA	7:AG:16:PRO:HD2	1.61	0.43
7:AG:134:LEU:O	7:AG:135:VAL:HG22	2.18	0.43
8:AH:22:THR:CG2	8:AH:34:ARG:O	2.56	0.43
8:AH:36:PHE:O	8:AH:37:HIS:O	2.37	0.43
8:AH:101:LYS:HZ3	8:AH:115:GLU:CB	2.32	0.43
8:AH:143:LEU:CA	8:AH:146:ASN:HB2	2.47	0.43
9:AJ:49:ALA:O	9:AJ:50:GLY:C	2.61	0.43
10:AK:94:THR:CG2	10:AK:97:GLN:H	2.23	0.43
10:AK:114:LYS:HB3	10:AK:115:ILE:H	1.44	0.43
11:AL:39:CYS:O	11:AL:42:PHE:CB	2.56	0.43
11:AL:42:PHE:CZ	11:AL:58:ILE:CD1	3.02	0.43
15:AP:15:THR:N	15:AP:20:ILE:CD1	2.78	0.43
15:AP:36:ASN:O	15:AP:41:THR:HB	2.19	0.43
17:AR:54:THR:HG23	17:AR:55:ALA:N	2.33	0.43
18:AS:30:GLU:CG	18:AS:31:GLU:N	2.78	0.43
18:AS:49:LYS:CD	18:AS:50:VAL:N	2.77	0.43
20:AU:20:HIS:HA	20:AU:67:LEU:CD2	2.48	0.43
20:AU:31:LEU:HA	20:AU:34:GLU:OE1	2.16	0.43
20:AU:47:THR:C	20:AU:48:VAL:HG23	2.44	0.43
21:AV:106:GLY:H	21:AV:141:MET:HG2	1.84	0.43
24:A0:36:THR:CB	24:A0:40:LYS:HB3	2.48	0.43
24:A0:44:LEU:HD13	24:A0:48:VAL:CG2	2.49	0.43
24:A0:54:LEU:HD13	24:A0:54:LEU:N	2.25	0.43
24:A0:57:ARG:NH2	24:A0:59:ASP:OD1	2.51	0.43
25:A1:13:ARG:HD2	25:A1:16:LYS:NZ	2.33	0.43
25:A1:111:ASP:C	25:A1:115:ASN:ND2	2.76	0.43
26:A2:11:GLN:HB3	26:A2:21:ARG:NE	2.33	0.43
26:A2:20:ILE:HG23	26:A2:67:LYS:NZ	2.32	0.43
26:A2:49:GLU:O	26:A2:54:TYR:OH	2.36	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:69:ILE:CG2	26:A2:88:GLN:CB	2.96	0.43
29:A5:18:MET:O	29:A5:19:ARG:O	2.37	0.43
30:A6:28:ARG:NH1	30:A6:28:ARG:CB	2.52	0.43
34:BA:29:G:O4'	34:BA:296:U:OP1	2.37	0.43
34:BA:70:G:C6	34:BA:73:C:C4	3.06	0.43
34:BA:118:U:O4	34:BA:289:G:C5'	2.66	0.43
34:BA:130:A:C2	34:BA:263:A:C2	2.89	0.43
34:BA:290:C:C2	34:BA:291:C:C6	3.06	0.43
34:BA:308:C:H2'	34:BA:309:G:H5'	1.98	0.43
34:BA:335:C:O4'	34:BA:1434:A:H4'	2.19	0.43
34:BA:602:A:C6	34:BA:603:U:C4	3.07	0.43
34:BA:604:G:C2	34:BA:605:U:H1'	2.54	0.43
34:BA:644:G:C5	34:BA:645:C:C6	3.06	0.43
34:BA:756:C:N3	34:BA:757:U:C5	2.86	0.43
34:BA:828:A:N6	34:BA:859:A:O4'	2.50	0.43
34:BA:839:U:O2	34:BA:839:U:C2'	2.64	0.43
34:BA:946:A:C2	34:BA:947:G:C5	3.06	0.43
34:BA:952:U:O4	48:BP:104:ARG:NH1	2.52	0.43
34:BA:953:G:H2'	34:BA:954:G:O5'	2.18	0.43
34:BA:964:A:C6	34:BA:965:A:N6	2.86	0.43
34:BA:1011:G:H2'	34:BA:1012:U:H5'	1.99	0.43
34:BA:1026:G:OP2	34:BA:1026:G:H8	2.01	0.43
34:BA:1123:A:H2'	34:BA:1124:G:C1'	2.49	0.43
34:BA:1201:A:HO2'	34:BA:1202:G:P	2.36	0.43
34:BA:1228:C:H4'	48:BP:115:LYS:C	2.44	0.43
34:BA:1236:A:H5'	34:BA:1305:G:OP1	2.19	0.43
34:BA:1243:C:O2'	34:BA:1244:C:H5'	2.18	0.43
34:BA:1271:G:O2'	34:BA:1272:G:H5'	2.18	0.43
34:BA:1283:G:H2'	34:BA:1284:C:C5'	2.48	0.43
34:BA:1349:A:OP2	44:BL:118:LYS:CD	2.66	0.43
34:BA:1378:C:O2	34:BA:1379:G:O5'	2.35	0.43
34:BA:1423:G:O2'	34:BA:1424:C:O4'	2.33	0.43
35:BB:11:C:H2'	35:BB:12:U:O5'	2.18	0.43
35:BB:12:U:O4	35:BB:23:A:N1	2.52	0.43
35:BB:26:G:C2	35:BB:27:C:N1	2.87	0.43
36:B1:6:U:O3'	36:B1:7:A:O4'	2.37	0.43
36:B1:28:U:N3	36:B1:29:G:C6	2.86	0.43
36:B1:31:G:H2'	36:B1:32:G:C8	2.53	0.43
36:B1:68:U:H5''	36:B1:69:A:P	2.58	0.43
37:BE:20:GLU:N	37:BE:39:ILE:HD13	2.33	0.43
37:BE:80:ILE:HD12	37:BE:211:ILE:CG2	2.48	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:133:LYS:HE2	37:BE:133:LYS:CA	2.48	0.43
37:BE:171:ALA:O	37:BE:172:ILE:C	2.61	0.43
37:BE:187:LEU:C	37:BE:187:LEU:CD1	2.84	0.43
38:BF:30:ARG:CG	38:BF:31:HIS:H	2.30	0.43
38:BF:30:ARG:CG	38:BF:31:HIS:N	2.81	0.43
38:BF:59:ARG:O	38:BF:60:ALA:CB	2.65	0.43
38:BF:84:ILE:O	38:BF:88:ARG:HB2	2.18	0.43
38:BF:155:GLY:O	38:BF:196:LEU:HB3	2.19	0.43
39:BG:28:SER:O	39:BG:30:LYS:N	2.51	0.43
39:BG:29:PRO:CA	39:BG:34:GLU:HG2	2.44	0.43
39:BG:63:LYS:HB3	39:BG:63:LYS:HE3	1.83	0.43
40:BH:61:TYR:O	40:BH:64:ARG:O	2.36	0.43
40:BH:102:ALA:HB2	40:BH:120:THR:O	2.17	0.43
40:BH:144:THR:O	40:BH:148:VAL:HG23	2.18	0.43
41:BI:7:ASN:ND2	41:BI:62:TRP:HD1	2.16	0.43
41:BI:50:TYR:CE1	53:BU:81:PHE:CE2	3.06	0.43
42:BJ:110:GLN:O	42:BJ:111:ARG:O	2.35	0.43
43:BK:27:PRO:O	43:BK:32:LYS:CE	2.65	0.43
43:BK:79:VAL:O	43:BK:80:ILE:C	2.61	0.43
43:BK:97:VAL:HG13	43:BK:98:LYS:H	1.83	0.43
44:BL:113:LYS:NZ	44:BL:119:ALA:CB	2.73	0.43
45:BM:40:LEU:HD12	45:BM:71:LEU:HD23	2.01	0.43
45:BM:60:ARG:HH11	45:BM:60:ARG:CG	2.31	0.43
45:BM:63:PHE:CA	49:BQ:59:ALA:HB2	2.49	0.43
47:BO:28:LYS:HD2	47:BO:33:ARG:CZ	2.48	0.43
48:BP:14:ARG:CG	48:BP:16:ASP:OD2	2.60	0.43
48:BP:60:VAL:HA	48:BP:63:THR:HG21	1.97	0.43
48:BP:60:VAL:O	48:BP:61:GLU:C	2.61	0.43
48:BP:75:ALA:O	48:BP:76:ALA:C	2.60	0.43
48:BP:81:LEU:HD21	48:BP:88:ARG:HH21	1.84	0.43
49:BQ:13:THR:O	49:BQ:13:THR:CG2	2.57	0.43
49:BQ:29:ARG:O	49:BQ:33:VAL:HG11	2.18	0.43
50:BR:25:THR:HG23	50:BR:66:LEU:HD12	2.00	0.43
50:BR:55:GLY:HA2	50:BR:58:MET:HG3	2.01	0.43
50:BR:71:GLN:O	50:BR:72:ARG:C	2.61	0.43
51:BS:10:GLY:CA	51:BS:14:ASN:ND2	2.82	0.43
52:BT:32:TYR:O	52:BT:34:LYS:N	2.51	0.43
54:BV:11:VAL:O	54:BV:12:ASP:C	2.61	0.43
55:BW:104:LEU:O	55:BW:105:SER:C	2.61	0.43
1:AB:8:U:O2	1:AB:9:G:C8	2.71	0.43
1:AB:40:U:C4	1:AB:43:C:P	3.12	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:73:A:N3	1:AB:73:A:C2'	2.82	0.43
2:AA:6:A:H5'	12:AM:4:ALA:CB	2.41	0.43
2:AA:30:G:C4	2:AA:31:C:C6	3.06	0.43
2:AA:49:A:N1	2:AA:177:G:C2	2.86	0.43
2:AA:89:G:OP2	2:AA:90:U:H5'	2.19	0.43
2:AA:115:C:C2	2:AA:116:C:C6	3.06	0.43
2:AA:120:U:C2'	2:AA:121:G:OP2	2.66	0.43
2:AA:134:C:C2'	2:AA:135:G:C5'	2.96	0.43
2:AA:209:C:H2'	2:AA:210:C:O5'	2.19	0.43
2:AA:214:G:C2	2:AA:215:G:C4	3.07	0.43
2:AA:216:A:C2	2:AA:217:G:C6	3.07	0.43
2:AA:312:G:O4'	2:AA:312:G:P	2.77	0.43
2:AA:332:A:C8	2:AA:335:C:C4	3.06	0.43
2:AA:340:A:H8	2:AA:340:A:O5'	2.02	0.43
2:AA:348:G:H2'	2:AA:348:G:N3	2.33	0.43
2:AA:473:G:O2'	2:AA:474:G:H5'	2.18	0.43
2:AA:512:G:H3'	2:AA:512:G:C8	2.54	0.43
2:AA:556:G:H2'	2:AA:557:U:C6	2.52	0.43
2:AA:614:U:H3'	2:AA:615:G:C5'	2.49	0.43
2:AA:614:U:P	2:AA:615:G:O4'	2.77	0.43
2:AA:705:A:O2'	2:AA:706:A:O5'	2.37	0.43
2:AA:791:C:O2	2:AA:794:G:H5'	2.12	0.43
2:AA:831:G:C6	2:AA:832:G:C5	3.07	0.43
2:AA:839:U:C4'	2:AA:1191:G:H21	2.32	0.43
2:AA:869:G:H2'	2:AA:870:A:O4'	2.19	0.43
2:AA:918:A:C5'	2:AA:918:A:N3	2.81	0.43
2:AA:997:G:C4	2:AA:998:C:C5	3.07	0.43
2:AA:1007:C:O5'	2:AA:1007:C:H6	2.01	0.43
2:AA:1017:G:C2	2:AA:1146:C:N3	2.87	0.43
2:AA:1047:G:C2	2:AA:1110:G:N7	2.87	0.43
2:AA:1161:C:H4'	26:A2:8:GLY:HA3	2.01	0.43
2:AA:1171:G:C3'	2:AA:1173:G:C5'	2.91	0.43
2:AA:1173:G:C2'	2:AA:1174:A:N7	2.81	0.43
2:AA:1213:A:C2	2:AA:1237:A:O2'	2.68	0.43
2:AA:1224:G:H1'	26:A2:86:HIS:CD2	2.54	0.43
2:AA:1272:A:C8	2:AA:1618:A:C1'	3.01	0.43
2:AA:1283:G:O2'	2:AA:1285:G:O6	2.29	0.43
2:AA:1286:A:C4	2:AA:1329:U:C4	3.06	0.43
2:AA:1419:A:C8	2:AA:1420:U:O2	2.71	0.43
2:AA:1422:G:C6	2:AA:1576:U:C4	3.05	0.43
2:AA:1440:G:O2'	2:AA:1441:G:H5'	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1527:G:C1'	2:AA:1545:A:H62	2.28	0.43
2:AA:1566:A:C2	4:AD:212:HIS:HA	2.53	0.43
2:AA:1670:C:P	2:AA:2550:G:OP2	2.75	0.43
2:AA:1768:U:C2	2:AA:1985:G:C6	3.05	0.43
2:AA:1835:G:N2	2:AA:1836:C:C2	2.86	0.43
2:AA:1912:A:C5	2:AA:1918:A:C2	3.07	0.43
2:AA:1917:U:H5''	2:AA:1918:A:N7	2.33	0.43
2:AA:1973:G:C6	2:AA:1974:C:N4	2.86	0.43
2:AA:2067:G:C6	2:AA:2444:G:C6	3.07	0.43
2:AA:2090:G:C5	2:AA:2230:G:C6	3.07	0.43
2:AA:2119:A:N6	2:AA:2147:G:H5''	2.33	0.43
2:AA:2124:G:H21	2:AA:2175:C:N4	2.16	0.43
2:AA:2196:C:C2	2:AA:2197:U:O2	2.72	0.43
2:AA:2290:G:C2	2:AA:2291:U:C2	3.06	0.43
2:AA:2294:C:O2	2:AA:2294:C:C2'	2.57	0.43
2:AA:2321:G:N3	2:AA:2321:G:C2'	2.80	0.43
2:AA:2349:G:C4	2:AA:2369:A:C2	3.06	0.43
2:AA:2364:C:O2'	27:A3:32:LYS:NZ	2.41	0.43
2:AA:2478:A:N7	2:AA:2479:G:N7	2.66	0.43
2:AA:2478:A:C4	2:AA:2529:G:C5	3.06	0.43
2:AA:2737:G:N2	2:AA:2768:C:C4	2.86	0.43
2:AA:2779:U:H5''	2:AA:2780:G:H3'	2.00	0.43
2:AA:2873:A:H2'	2:AA:2874:C:O5'	2.19	0.43
3:AC:27:HIS:O	3:AC:31:GLU:CG	2.65	0.43
3:AC:216:THR:O	3:AC:217:THR:C	2.61	0.43
4:AD:186:LYS:O	4:AD:187:CYS:C	2.61	0.43
4:AD:199:ARG:NH1	4:AD:199:ARG:CG	2.73	0.43
5:AE:48:MET:O	5:AE:49:THR:CG2	2.62	0.43
5:AE:107:GLU:HG2	5:AE:110:ARG:CZ	2.49	0.43
5:AE:214:VAL:CG1	5:AE:221:LYS:NZ	2.71	0.43
6:AF:32:GLY:HA3	6:AF:36:ARG:CZ	2.44	0.43
6:AF:237:GLU:O	6:AF:240:LEU:HB2	2.19	0.43
7:AG:23:VAL:HG23	7:AG:73:VAL:O	2.18	0.43
7:AG:29:HIS:CE1	7:AG:64:ARG:NH1	2.87	0.43
7:AG:37:ALA:O	7:AG:40:ILE:N	2.52	0.43
7:AG:81:GLU:O	7:AG:82:GLU:C	2.60	0.43
7:AG:82:GLU:CA	7:AG:85:GLN:CD	2.87	0.43
8:AH:36:PHE:CE2	8:AH:71:LEU:HG	2.53	0.43
9:AI:66:PHE:CE2	9:AI:73:VAL:CG1	3.01	0.43
9:AJ:72:GLN:HA	9:AJ:75:LYS:CE	2.49	0.43
9:AJ:80:ILE:CG2	9:AJ:81:THR:HG23	2.39	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:72:LEU:HD21	10:AK:108:LEU:HD12	2.01	0.43
10:AK:127:THR:O	10:AK:143:VAL:O	2.36	0.43
11:AL:72:THR:HA	11:AL:73:PRO:HD2	1.80	0.43
11:AL:117:ASN:CG	11:AL:127:ILE:HD11	2.42	0.43
13:AN:17:ARG:NH1	13:AN:54:LYS:HZ3	2.17	0.43
13:AN:17:ARG:NH2	13:AN:46:ALA:O	2.52	0.43
15:AP:26:LYS:HD2	15:AP:89:PRO:HG2	2.00	0.43
16:AQ:33:ARG:HG2	16:AQ:48:VAL:O	2.18	0.43
16:AQ:40:ASN:HA	16:AQ:114:LYS:NZ	2.34	0.43
16:AQ:110:THR:CG2	16:AQ:115:VAL:HG23	2.36	0.43
18:AS:11:ARG:HB3	18:AS:11:ARG:CZ	2.48	0.43
18:AS:48:ALA:O	18:AS:52:GLU:HG2	2.18	0.43
18:AS:66:GLU:CD	18:AS:67:ASP:H	2.27	0.43
20:AU:23:VAL:O	20:AU:24:ARG:O	2.37	0.43
20:AU:81:LYS:NZ	20:AU:84:GLY:C	2.77	0.43
20:AU:81:LYS:HD2	20:AU:83:ASP:N	2.31	0.43
21:AV:52:PHE:N	21:AV:65:LEU:CD1	2.57	0.43
22:AW:13:PRO:N	22:AW:16:ARG:NH1	2.66	0.43
23:AX:6:VAL:HG23	23:AX:56:VAL:HG23	2.00	0.43
25:A1:21:ALA:CA	25:A1:24:PHE:CZ	3.01	0.43
25:A1:55:ARG:HH11	25:A1:55:ARG:HD3	1.69	0.43
25:A1:89:ASP:HB3	26:A2:51:ALA:HB3	2.00	0.43
26:A2:15:SER:CA	26:A2:99:GLN:NE2	2.80	0.43
26:A2:65:ARG:O	26:A2:93:ILE:CG1	2.64	0.43
26:A2:70:TYR:O	26:A2:71:ILE:C	2.61	0.43
31:A7:17:GLY:O	31:A7:20:ALA:HB3	2.19	0.43
31:A7:31:LEU:C	31:A7:35:ARG:HG3	2.43	0.43
32:A8:39:ASP:O	32:A8:42:ARG:CB	2.67	0.43
34:BA:19:C:C1'	34:BA:864:A:N3	2.68	0.43
34:BA:20:U:O2	34:BA:21:G:N9	2.52	0.43
34:BA:43:C:C5'	51:BS:12:LYS:HB2	2.48	0.43
34:BA:46:G:N2	34:BA:366:C:H1'	2.34	0.43
34:BA:58:C:H5''	34:BA:58:C:H6	1.83	0.43
34:BA:65:U:H5''	34:BA:66:G:OP1	2.18	0.43
34:BA:90:U:H2'	34:BA:91:C:C6	2.53	0.43
34:BA:115:G:H4'	34:BA:116:A:C8	2.53	0.43
34:BA:132:C:C6	34:BA:133:U:H5	2.35	0.43
34:BA:247:G:OP2	52:BT:99:SER:C	2.62	0.43
34:BA:258:G:C2	34:BA:269:C:N3	2.87	0.43
34:BA:282:A:N7	34:BA:283:C:H5	2.16	0.43
34:BA:314:C:C2'	34:BA:315:A:H1'	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:352:C:O2	34:BA:352:C:C2'	2.65	0.43
34:BA:397:A:N7	34:BA:547:A:O2'	2.51	0.43
34:BA:413:G:H2'	34:BA:413:G:N3	2.33	0.43
34:BA:463:A:C5'	51:BS:75:ARG:HH12	2.31	0.43
34:BA:478:A:N7	34:BA:479:C:N4	2.66	0.43
34:BA:559:A:HO2'	34:BA:560:U:P	2.40	0.43
34:BA:581:G:C4'	50:BR:64:ARG:NH1	2.72	0.43
34:BA:597:G:N2	34:BA:643:C:C2	2.83	0.43
34:BA:629:G:N3	34:BA:630:G:C8	2.86	0.43
34:BA:694:A:C2	34:BA:695:A:N9	2.86	0.43
34:BA:698:G:C2	34:BA:699:C:C2	3.06	0.43
34:BA:781:A:C2'	34:BA:782:A:O5'	2.66	0.43
34:BA:841:U:O3'	34:BA:848:C:O4'	2.36	0.43
34:BA:886:G:C6	34:BA:912:C:C2	3.06	0.43
34:BA:921:U:HO2'	40:BH:19:MET:C	2.13	0.43
34:BA:930:C:N4	34:BA:1387:G:H1	2.16	0.43
34:BA:969:A:C2	34:BA:970:C:C2	3.07	0.43
34:BA:979:C:C3'	34:BA:980:C:H5'	2.49	0.43
34:BA:994:A:N1	34:BA:1047:G:C4'	2.81	0.43
34:BA:996:A:C2	34:BA:997:U:C5	3.06	0.43
34:BA:30(A):G:C4	34:BA:1031:G:N1	2.87	0.43
34:BA:1057:G:OP1	38:BF:155:GLY:HA3	2.18	0.43
34:BA:1064:G:O6	34:BA:1193:G:O6	2.37	0.43
34:BA:1122:U:C4	34:BA:1123:A:C6	3.06	0.43
34:BA:1148:U:C2'	34:BA:1149:C:O4'	2.66	0.43
34:BA:1165:C:N4	34:BA:1166:G:C5	2.86	0.43
34:BA:1203:C:H2'	34:BA:1204:A:H8	1.83	0.43
34:BA:1240:U:H2'	42:BJ:32:ARG:HH21	1.83	0.43
34:BA:1319:A:O3'	54:BV:70:LYS:NZ	2.51	0.43
34:BA:1339:A:C3'	34:BA:1340:A:H5'	2.48	0.43
34:BA:1346:A:C8	34:BA:1348:U:C5	3.06	0.43
34:BA:1368:G:C4	34:BA:1369:C:C6	3.06	0.43
34:BA:1442:G:N3	34:BA:1442:G:H3'	2.34	0.43
34:BA:1523:G:C6	34:BA:1524:C:N4	2.86	0.43
34:BA:1530:G:C2	34:BA:1531:A:C2	3.06	0.43
35:BB:8:U:C6	35:BB:8:U:H3'	2.54	0.43
37:BE:67:THR:HG21	37:BE:155:LEU:CD1	2.39	0.43
37:BE:112:VAL:O	37:BE:113:HIS:C	2.58	0.43
38:BF:77:ILE:HD13	38:BF:77:ILE:HA	1.84	0.43
40:BH:78:HIS:CD2	40:BH:78:HIS:H	2.37	0.43
41:BI:30:LEU:O	41:BI:31:GLU:C	2.61	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:26:PHE:CZ	42:BJ:30:ILE:HD11	2.54	0.43
42:BJ:69:VAL:HG21	42:BJ:104:LEU:HD11	1.99	0.43
43:BK:75:ARG:HA	43:BK:76:PRO:HD3	1.88	0.43
43:BK:103:VAL:HG11	43:BK:109:ILE:C	2.44	0.43
44:BL:23:ASN:ND2	44:BL:23:ASN:C	2.74	0.43
44:BL:78:LYS:HA	44:BL:81:ILE:CD1	2.47	0.43
44:BL:97:LYS:HD2	44:BL:102:LEU:HD21	1.99	0.43
45:BM:3:LYS:CG	45:BM:75:ILE:HG12	2.48	0.43
45:BM:16:LEU:HB3	45:BM:70:ARG:NE	2.33	0.43
45:BM:71:LEU:O	45:BM:73:ASP:N	2.51	0.43
47:BO:21:LYS:O	47:BO:22:SER:O	2.37	0.43
47:BO:27:LEU:HD23	47:BO:33:ARG:CD	2.47	0.43
47:BO:36:VAL:C	47:BO:58:VAL:HG13	2.39	0.43
47:BO:42:THR:HG23	47:BO:43:VAL:N	2.32	0.43
47:BO:58:VAL:CG1	47:BO:59:ARG:N	2.82	0.43
47:BO:68:ALA:HB1	47:BO:98:TYR:C	2.43	0.43
47:BO:89:ARG:O	47:BO:90:VAL:HG22	2.18	0.43
48:BP:14:ARG:HG3	48:BP:17:VAL:HG23	2.00	0.43
51:BS:16:HIS:C	51:BS:17:TYR:HD1	2.26	0.43
54:BV:15:LEU:HD11	54:BV:38:SER:OG	2.18	0.43
54:BV:58:VAL:HG21	54:BV:75:ALA:CB	2.49	0.43
1:AB:73:A:N6	1:AB:104:A:C5	2.86	0.43
1:AB:112:G:C6	1:AB:113:C:C4	3.06	0.43
2:AA:23:G:N3	2:AA:24:G:O4'	2.52	0.43
2:AA:107:C:C2'	2:AA:108:U:C6	2.96	0.43
2:AA:126:A:C6	31:A7:18:PHE:CE2	3.07	0.43
2:AA:147:U:C2'	2:AA:148:C:H5'	2.49	0.43
2:AA:178:G:C8	2:AA:178:G:C3'	3.01	0.43
2:AA:197:A:N3	2:AA:198:C:H1'	2.33	0.43
2:AA:222:A:N6	2:AA:224:G:C2	2.87	0.43
2:AA:233:A:O2'	2:AA:234:C:H5'	2.18	0.43
2:AA:270(S):G:O2'	2:AA:270(T):G:H8	2.01	0.43
2:AA:285:C:H3'	2:AA:286:C:C6	2.54	0.43
2:AA:321:G:H5'	6:AF:150:THR:CG2	2.41	0.43
2:AA:382:G:H2'	2:AA:383:U:O4'	2.19	0.43
2:AA:434:U:C2'	2:AA:435:C:OP2	2.66	0.43
2:AA:462:C:N3	2:AA:468:G:C2	2.84	0.43
2:AA:489:G:N2	2:AA:491:G:N3	2.67	0.43
2:AA:533:G:H5''	2:AA:534:U:OP2	2.18	0.43
2:AA:571:A:O2'	2:AA:572:A:P	2.77	0.43
2:AA:642:G:H3'	2:AA:642:G:C8	2.53	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:717:G:N1	2:AA:718:A:H1'	2.30	0.43
2:AA:744:G:H5'	2:AA:1659:U:OP1	2.17	0.43
2:AA:750:A:C5'	2:AA:1617:C:O2	2.67	0.43
2:AA:776:G:N1	2:AA:793:A:N7	2.66	0.43
2:AA:791:C:C2	2:AA:794:G:C5'	2.78	0.43
2:AA:939:G:H2'	2:AA:940:G:H8	1.82	0.43
2:AA:1071:G:O5'	2:AA:1089:G:O6	2.36	0.43
2:AA:1077:A:C8	2:AA:1078:U:N3	2.87	0.43
2:AA:1085:A:H5'	9:AI:29:PHE:CD1	2.53	0.43
2:AA:1197:G:N3	2:AA:1197:G:H2'	2.34	0.43
2:AA:1197:G:O6	2:AA:1198:U:O4	2.37	0.43
2:AA:1199:U:O4	2:AA:1246:A:N1	2.52	0.43
2:AA:1210:A:OP1	2:AA:1212:G:OP1	2.36	0.43
2:AA:1222:C:H2'	2:AA:1223:C:O5'	2.18	0.43
2:AA:1352:U:HO2'	2:AA:1570:A:H2'	1.84	0.43
2:AA:1366:A:C2	2:AA:1367:A:C8	3.07	0.43
2:AA:1403:C:H4'	2:AA:1471:A:H5''	1.92	0.43
2:AA:1405:U:C2	2:AA:1406:U:C4	3.07	0.43
2:AA:1420:U:H1'	2:AA:1421:G:C8	2.53	0.43
2:AA:1459:G:C6	2:AA:1461:G:C4	3.06	0.43
2:AA:1468:C:C2'	2:AA:1469:A:O5'	2.66	0.43
2:AA:1508:A:H5'	2:AA:1510:A:N7	2.34	0.43
2:AA:1514:U:H2'	2:AA:1515:C:OP2	2.19	0.43
2:AA:1534:G:C2	2:AA:1536:A:H1'	2.53	0.43
2:AA:1617:C:C2'	2:AA:1617:C:O2	2.67	0.43
2:AA:1707:G:C2	2:AA:1756:G:C2	3.06	0.43
2:AA:1707:G:C4'	2:AA:1756:G:HO2'	2.27	0.43
2:AA:1799:G:N9	2:AA:1819:A:N6	2.67	0.43
2:AA:1839:G:C8	2:AA:1927:A:H1'	2.54	0.43
2:AA:1871:A:C2	2:AA:1872:A:C5	3.07	0.43
2:AA:1937:A:C6	2:AA:1939:U:C5	3.07	0.43
2:AA:1944:U:O4'	2:AA:1955:U:H6	1.98	0.43
2:AA:2131:G:O4'	2:AA:2131:G:P	2.76	0.43
2:AA:2131:G:C5'	3:AC:6:ARG:HB2	2.47	0.43
2:AA:2150:U:O3'	2:AA:2151:G:C8	2.69	0.43
2:AA:2278:A:C6	2:AA:2279:G:N7	2.86	0.43
2:AA:2299:G:H2'	2:AA:2300:G:H8	1.84	0.43
2:AA:2331:G:H21	2:AA:2385:C:N4	2.10	0.43
2:AA:2389:G:OP2	2:AA:2390:U:H5'	2.18	0.43
2:AA:2551:C:C2	2:AA:2552:U:C6	3.06	0.43
2:AA:2563:U:C4'	13:AN:27:GLY:HA2	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2715:C:C2	2:AA:2716:U:C6	3.07	0.43
2:AA:2718:G:N2	2:AA:2719:G:H1'	2.34	0.43
2:AA:2746:U:O2	2:AA:2759:G:C2	2.71	0.43
2:AA:2803:C:O2	2:AA:2804:C:O2	2.36	0.43
3:AC:20:TYR:HB3	3:AC:24:GLU:OE1	2.18	0.43
3:AC:108:MET:CE	3:AC:136:LEU:HD11	2.48	0.43
3:AC:131:LEU:C	3:AC:133:PRO:HD3	2.42	0.43
4:AD:89:ASN:C	4:AD:90:ILE:CD1	2.76	0.43
4:AD:131:LEU:O	4:AD:166:LYS:NZ	2.28	0.43
6:AF:30:LEU:O	6:AF:33:LYS:N	2.52	0.43
6:AF:223:LEU:O	6:AF:225:PRO:O	2.37	0.43
7:AG:10:PHE:N	7:AG:10:PHE:HD1	2.17	0.43
8:AH:44:VAL:O	8:AH:44:VAL:HG13	2.19	0.43
9:AI:35:ALA:CB	9:AI:36:PRO:CD	2.75	0.43
9:AI:110:GLU:O	9:AI:114:ILE:HG13	2.18	0.43
9:AJ:63:LEU:HD11	9:AJ:102:ILE:CD1	2.33	0.43
9:AJ:80:ILE:HD11	9:AJ:117:LYS:HD2	2.01	0.43
10:AK:23:ASP:HB2	10:AK:25:TYR:CD2	2.53	0.43
10:AK:70:GLU:O	10:AK:71:GLN:C	2.62	0.43
10:AK:70:GLU:HG3	10:AK:71:GLN:N	2.33	0.43
10:AK:76:THR:HG22	10:AK:142:LYS:HE3	1.99	0.43
11:AL:79:LEU:HD13	11:AL:132:ALA:HA	2.01	0.43
11:AL:118:ALA:C	11:AL:119:ASN:CG	2.86	0.43
13:AN:76:TYR:CB	17:AR:19:THR:OG1	2.67	0.43
15:AP:68:ALA:O	15:AP:72:VAL:HG23	2.18	0.43
15:AP:90:PHE:CD1	15:AP:90:PHE:N	2.86	0.43
16:AQ:46:GLN:HE21	16:AQ:57:THR:CB	2.32	0.43
16:AQ:122:ALA:HB1	16:AQ:127:LEU:HB3	1.99	0.43
18:AS:19:LEU:O	18:AS:20:VAL:C	2.62	0.43
19:AT:31:ARG:N	19:AT:31:ARG:NE	2.67	0.43
20:AU:17:HIS:O	20:AU:20:HIS:N	2.51	0.43
20:AU:61:GLU:HB2	20:AU:75:GLU:OE2	2.19	0.43
23:AX:1:MET:O	23:AX:3:ARG:HG3	2.18	0.43
23:AX:18:ASP:O	23:AX:19:GLN:C	2.62	0.43
23:AX:39:ASP:O	23:AX:44:ARG:HB2	2.19	0.43
24:A0:44:LEU:HD13	24:A0:48:VAL:HG21	1.99	0.43
24:A0:104:ARG:N	24:A0:111:LEU:HD11	2.33	0.43
25:A1:70:ARG:O	25:A1:73:GLY:N	2.51	0.43
25:A1:98:ILE:HA	25:A1:101:ARG:HG2	2.00	0.43
26:A2:67:LYS:HZ2	26:A2:94:LYS:CG	2.31	0.43
26:A2:69:ILE:HG22	26:A2:88:GLN:CB	2.48	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:A3:26:PHE:O	27:A3:60:PHE:CD1	2.72	0.43
27:A3:33:ALA:HB3	27:A3:66:LYS:H	1.83	0.43
28:A4:5:LEU:HB2	28:A4:56:VAL:HG13	2.00	0.43
28:A4:11:PRO:CA	28:A4:40:HIS:CD2	2.95	0.43
32:A8:21:LYS:C	32:A8:22:VAL:HG23	2.43	0.43
33:A9:19:ARG:O	33:A9:19:ARG:CG	2.67	0.43
33:A9:27:CYS:HB3	33:A9:32:HIS:HB2	2.01	0.43
34:BA:173:U:H5'	34:BA:197:A:C5'	2.47	0.43
34:BA:262:A:C2	34:BA:263:A:C5	3.07	0.43
34:BA:293:G:C2	34:BA:294:U:C6	3.06	0.43
34:BA:391:G:C2'	34:BA:392:G:O5'	2.67	0.43
34:BA:499:A:C8	34:BA:547:A:C6	3.07	0.43
34:BA:540:G:C4	34:BA:541:G:C8	3.06	0.43
34:BA:608:A:C2'	34:BA:609:A:O5'	2.66	0.43
34:BA:609:A:C2	34:BA:610:G:N9	2.87	0.43
34:BA:646:U:C2'	34:BA:647:C:O5'	2.66	0.43
34:BA:664:G:N2	34:BA:741:G:H1	2.16	0.43
34:BA:718:G:H4'	46:BN:117:ASN:ND2	2.33	0.43
34:BA:878:G:P	43:BK:88:LYS:HB3	2.58	0.43
34:BA:913:A:O2'	34:BA:914:A:C5'	2.66	0.43
34:BA:925:G:N1	34:BA:1392:G:C5	2.86	0.43
34:BA:953:G:H2'	34:BA:954:G:C5'	2.48	0.43
34:BA:987:G:C2'	34:BA:988:G:C5'	2.91	0.43
34:BA:988:G:H2'	34:BA:989:C:C6	2.53	0.43
34:BA:1013:G:O2'	34:BA:1014:A:C8	2.72	0.43
34:BA:1047:G:O6	34:BA:1210:C:N3	2.52	0.43
34:BA:1118:C:H4'	34:BA:1179:A:O4'	2.19	0.43
34:BA:1226:C:O3'	48:BP:111:LYS:HE3	2.19	0.43
34:BA:1236:A:C5'	56:BX:2:GLY:N	2.80	0.43
34:BA:1266:G:N2	34:BA:1270:C:H42	2.16	0.43
34:BA:1327:C:OP1	56:BX:20:LYS:HE2	2.19	0.43
34:BA:1353:G:C2	34:BA:1370:G:C2	3.06	0.43
34:BA:1398:A:C8	34:BA:1398:A:H3'	2.53	0.43
34:BA:1415:G:H2'	34:BA:1416:G:O5'	2.19	0.43
35:BB:2:C:N4	35:BB:71:G:N1	2.66	0.43
35:BB:22:G:C2	35:BB:23:A:C8	3.07	0.43
35:BB:29:A:N1	35:BB:30:G:C4	2.87	0.43
35:BB:65:G:N3	35:BB:66:A:N7	2.67	0.43
35:BB:67:A:N3	35:BB:68:U:C6	2.86	0.43
35:BC:21:A:C6	35:BC:46:G:N1	2.86	0.43
37:BE:103:THR:OG1	37:BE:180:LEU:HD21	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:124:SER:C	37:BE:126:GLU:N	2.73	0.43
37:BE:167:PRO:CG	37:BE:192:SER:OG	2.67	0.43
37:BE:169:LYS:NZ	37:BE:169:LYS:O	2.48	0.43
37:BE:200:ILE:C	37:BE:202:PRO:HD3	2.43	0.43
37:BE:219:VAL:HG13	37:BE:222:ILE:HD13	2.01	0.43
38:BF:182:ILE:CD1	38:BF:203:PHE:CD1	3.01	0.43
39:BG:12:CYS:CA	39:BG:33:MET:HE1	2.48	0.43
40:BH:74:GLY:O	40:BH:115:VAL:HA	2.18	0.43
42:BJ:37:ASN:ND2	42:BJ:37:ASN:C	2.76	0.43
43:BK:45:ILE:HD12	43:BK:61:VAL:CG1	2.49	0.43
43:BK:104:ARG:HB2	43:BK:108:GLY:H	1.83	0.43
43:BK:116:LYS:HB2	43:BK:119:LEU:HD21	2.01	0.43
44:BL:11:LYS:HG2	44:BL:12:GLU:OE1	2.19	0.43
44:BL:32:ASP:OD1	44:BL:34:ASN:N	2.51	0.43
44:BL:37:PHE:O	44:BL:38:GLN:C	2.61	0.43
45:BM:16:LEU:O	45:BM:70:ARG:HG3	2.19	0.43
45:BM:24:VAL:O	45:BM:28:ARG:CG	2.66	0.43
45:BM:26:ALA:O	45:BM:84:GLN:OE1	2.37	0.43
46:BN:22:HIS:HB3	46:BN:29:ILE:HG13	1.99	0.43
47:BO:59:ARG:HA	47:BO:64:TYR:O	2.18	0.43
48:BP:81:LEU:CD2	48:BP:88:ARG:HE	2.31	0.43
49:BQ:12:ARG:O	49:BQ:14:PRO:CD	2.67	0.43
51:BS:22:THR:OG1	51:BS:23:ASP:N	2.49	0.43
52:BT:75:ARG:HH12	52:BT:76:LEU:C	2.26	0.43
53:BU:75:ILE:C	53:BU:77:GLY:N	2.76	0.43
54:BV:20:LEU:CG	54:BV:21:GLU:N	2.81	0.43
54:BV:63:THR:HB	54:BV:66:MET:CE	2.47	0.43
56:BX:12:LYS:N	56:BX:12:LYS:CD	2.81	0.43
1:AB:24:G:H2'	1:AB:27:C:N4	2.33	0.43
1:AB:77:U:O5'	1:AB:77:U:C6	2.72	0.43
1:AB:115:G:O3'	16:AQ:65:ASP:OD1	2.35	0.43
2:AA:133:C:C2'	2:AA:134:C:O5'	2.67	0.43
2:AA:186:G:N1	2:AA:211:A:C6	2.87	0.43
2:AA:336:C:C2'	2:AA:337:C:O5'	2.66	0.43
2:AA:374:A:N3	2:AA:375:C:C1'	2.82	0.43
2:AA:377:C:H2'	2:AA:378:C:C6	2.53	0.43
2:AA:427:U:O5'	2:AA:427:U:C6	2.63	0.43
2:AA:443:A:C2	2:AA:1245:G:N2	2.84	0.43
2:AA:448:U:O2'	6:AF:84:VAL:CG1	2.67	0.43
2:AA:482:A:N3	2:AA:482:A:C2'	2.70	0.43
2:AA:536:A:O2'	2:AA:537:C:H5'	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:539:G:H2'	2:AA:540:G:H8	1.82	0.43
2:AA:543:C:O2'	2:AA:544:C:P	2.76	0.43
2:AA:599:G:N2	2:AA:658:C:C2	2.73	0.43
2:AA:602:G:H2'	2:AA:655:A:H2	1.84	0.43
2:AA:729:G:C5	4:AD:207:ALA:CB	3.02	0.43
2:AA:729:G:C1'	2:AA:763:G:H4'	2.47	0.43
2:AA:743:G:C2'	2:AA:744:G:O5'	2.67	0.43
2:AA:771:G:C2	2:AA:772:C:C2	3.06	0.43
2:AA:813:U:O4'	2:AA:1226:G:O4'	2.36	0.43
2:AA:934:G:N1	2:AA:935:C:C4	2.87	0.43
2:AA:1022:G:C2	2:AA:1139:G:N3	2.85	0.43
2:AA:1050:A:C2'	2:AA:1051:G:C5'	2.90	0.43
2:AA:1084:A:H1'	9:AI:25:LEU:HB3	1.99	0.43
2:AA:1107:G:C8	2:AA:1108:U:C5	3.06	0.43
2:AA:1185:C:O5'	2:AA:1186:G:OP1	2.37	0.43
2:AA:1195:G:O2'	2:AA:1196:C:H5'	2.19	0.43
2:AA:1261:C:O2'	2:AA:1262:A:O4'	2.32	0.43
2:AA:1264:G:N7	2:AA:1265:A:N7	2.64	0.43
2:AA:1275:A:N6	24:A0:19:ALA:CB	2.81	0.43
2:AA:1364:G:O5'	2:AA:1809:A:N6	2.51	0.43
2:AA:1384:A:H1'	2:AA:1405:U:C4'	2.49	0.43
2:AA:1417:C:C2'	2:AA:1418:G:O5'	2.63	0.43
2:AA:1438:U:C2'	2:AA:1439:A:H5'	2.17	0.43
2:AA:1506:C:C4	2:AA:1507:A:C8	3.07	0.43
2:AA:1523:U:H2'	2:AA:1524:G:O5'	2.19	0.43
2:AA:1529:A:C3'	2:AA:1530:G:H5'	2.49	0.43
2:AA:1683:C:N3	2:AA:1684:C:C5	2.87	0.43
2:AA:1767:C:C2'	2:AA:1768:U:H5'	2.49	0.43
2:AA:1905:C:N3	2:AA:1930:G:C2	2.87	0.43
2:AA:1906:G:O4'	2:AA:1929:G:C8	2.72	0.43
2:AA:1913:A:C6	2:AA:1917:U:C5	3.07	0.43
2:AA:1916:A:C2'	2:AA:1917:U:N3	2.81	0.43
2:AA:1942:C:OP2	2:AA:1942:C:C3'	2.54	0.43
2:AA:1954:G:HO2'	2:AA:1955:U:P	2.40	0.43
2:AA:1965:C:H3'	2:AA:1966:A:N7	2.28	0.43
2:AA:1975:G:C5	2:AA:1976:U:C6	3.07	0.43
2:AA:2019:A:O2'	2:AA:2020:A:O5'	2.36	0.43
2:AA:2044:C:H3'	2:AA:2044:C:P	2.58	0.43
2:AA:2045:C:O2'	2:AA:2046:G:O5'	2.36	0.43
2:AA:2051:A:O2'	5:AE:238:LEU:HD23	2.18	0.43
2:AA:2085:C:C2'	2:AA:2086:U:O5'	2.67	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2104:G:N2	2:AA:2105:C:O2	2.51	0.43
2:AA:2190:G:N3	2:AA:2191:G:C8	2.87	0.43
2:AA:2262:U:C1'	2:AA:2328:A:N3	2.82	0.43
2:AA:2282:G:N2	2:AA:2425:A:N7	2.67	0.43
2:AA:2322:A:C5	2:AA:2323:G:C8	3.06	0.43
2:AA:2350:C:O2'	2:AA:2351:G:O5'	2.36	0.43
2:AA:2371:G:HO2'	30:A6:47:HIS:CE1	2.29	0.43
2:AA:2437:U:H5'	2:AA:2598:A:N1	2.34	0.43
2:AA:2458:G:N7	2:AA:2490:G:C5	2.86	0.43
2:AA:2479:G:C2	2:AA:2480:C:O2	2.72	0.43
2:AA:2502:G:O2'	2:AA:2503:A:P	2.77	0.43
2:AA:2507:C:C4	2:AA:2582:G:C2	3.06	0.43
2:AA:2568:C:H2'	2:AA:2569:G:H5'	2.00	0.43
2:AA:2648:C:C2	2:AA:2673:G:N2	2.86	0.43
2:AA:2657:A:C6	2:AA:2664:G:N2	2.82	0.43
2:AA:2692:C:N3	2:AA:2717:G:N2	2.57	0.43
2:AA:2717:G:H2'	2:AA:2718:G:C5'	2.49	0.43
2:AA:2737:G:C2	2:AA:2768:C:C4	3.07	0.43
2:AA:2772:C:C2	2:AA:2773:C:C5	3.07	0.43
3:AC:216:THR:O	3:AC:218:MET:N	2.52	0.43
4:AD:78:ALA:HA	4:AD:113:MET:HG3	2.01	0.43
4:AD:140:VAL:C	4:AD:141:HIS:ND1	2.77	0.43
4:AD:172:ILE:N	4:AD:182:MET:HG2	2.33	0.43
5:AE:44:TYR:C	5:AE:309:PRO:HG3	2.43	0.43
5:AE:205:THR:HG23	5:AE:261:ARG:HG3	2.00	0.43
6:AF:111:VAL:HG13	6:AF:220:THR:N	2.33	0.43
6:AF:153:VAL:HG12	6:AF:157:LEU:CD2	2.46	0.43
6:AF:162:VAL:CG1	6:AF:163:HIS:H	2.29	0.43
7:AG:56:ARG:NH2	7:AG:63:ILE:CG1	2.77	0.43
7:AG:93:LEU:CD2	7:AG:106:PHE:CD2	3.01	0.43
7:AG:97:GLN:CD	7:AG:106:PHE:CE2	2.97	0.43
8:AH:7:PRO:C	8:AH:8:ILE:HG13	2.44	0.43
8:AH:37:HIS:O	8:AH:40:MET:HE1	2.19	0.43
8:AH:59:HIS:C	8:AH:61:ARG:H	2.25	0.43
9:AJ:3:ILE:HG22	9:AJ:7:ILE:HD11	2.01	0.43
11:AL:112:LYS:O	11:AL:113:MET:C	2.62	0.43
11:AL:116:LEU:HD13	11:AL:117:ASN:O	2.19	0.43
12:AM:8:ALA:O	12:AM:9:ASP:C	2.61	0.43
12:AM:52:GLN:O	12:AM:56:LYS:HE2	2.19	0.43
13:AN:17:ARG:HH12	13:AN:54:LYS:NZ	2.17	0.43
13:AN:43:VAL:HG23	13:AN:56:GLN:O	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AO:92:ASP:HB3	14:AO:118:LEU:CG	2.44	0.43
14:AO:94:ARG:HD2	14:AO:119:THR:C	2.38	0.43
15:AP:31:PHE:HE1	15:AP:87:LYS:O	2.02	0.43
15:AP:43:PRO:O	15:AP:125:TRP:CZ2	2.72	0.43
15:AP:123:ILE:CA	15:AP:136:TRP:HE1	2.32	0.43
16:AQ:61:ALA:C	16:AQ:62:HIS:ND1	2.77	0.43
16:AQ:102:LEU:CD1	16:AQ:129:ILE:HD12	2.47	0.43
16:AQ:118:ILE:O	16:AQ:121:GLY:N	2.52	0.43
17:AR:45:GLU:C	17:AR:48:ASN:OD1	2.62	0.43
18:AS:103:ILE:O	18:AS:103:ILE:CG2	2.67	0.43
19:AT:52:VAL:CG1	19:AT:53:ASN:N	2.81	0.43
20:AU:72:ILE:O	20:AU:91:LEU:CB	2.59	0.43
20:AU:81:LYS:HD2	20:AU:83:ASP:HB2	1.99	0.43
21:AV:100:THR:HG23	21:AV:137:ASP:OD1	2.19	0.43
21:AV:124:ALA:C	21:AV:159:THR:HG21	2.44	0.43
21:AV:138:VAL:HB	21:AV:140:LYS:HE3	2.01	0.43
22:AW:20:LEU:HD13	22:AW:20:LEU:O	2.18	0.43
22:AW:20:LEU:O	22:AW:23:LEU:CB	2.67	0.43
23:AX:8:LEU:CA	23:AX:54:VAL:HG12	2.45	0.43
23:AX:35:ARG:O	23:AX:36:VAL:CG1	2.66	0.43
23:AX:40:THR:O	23:AX:41:PRO:C	2.60	0.43
24:A0:23:ASN:OD1	24:A0:24:GLN:N	2.52	0.43
25:A1:9:VAL:O	25:A1:13:ARG:CZ	2.66	0.43
25:A1:13:ARG:O	25:A1:16:LYS:N	2.52	0.43
26:A2:30:GLY:HA3	26:A2:33:VAL:HG21	2.00	0.43
26:A2:89:ASN:O	26:A2:90:PHE:O	2.36	0.43
28:A4:54:GLY:O	28:A4:55:ARG:HB2	2.19	0.43
29:A5:12:SER:CB	29:A5:15:LYS:NZ	2.82	0.43
29:A5:35:GLN:C	29:A5:37:HIS:N	2.73	0.43
30:A6:32:GLN:HB3	30:A6:35:LEU:CG	2.49	0.43
32:A8:21:LYS:HD2	32:A8:48:PHE:CZ	2.53	0.43
34:BA:39:G:N1	34:BA:40:C:C5	2.87	0.43
34:BA:115:G:N3	34:BA:289:G:C8	2.87	0.43
34:BA:173:U:C2	34:BA:197:A:C2	3.06	0.43
34:BA:301:G:N2	34:BA:302:G:C1'	2.81	0.43
34:BA:355:C:C1'	34:BA:388:G:H2'	2.49	0.43
34:BA:377:G:H1	34:BA:386:C:H42	1.65	0.43
34:BA:513:C:N3	34:BA:514:C:C4	2.87	0.43
34:BA:558:G:C5	34:BA:559:A:C2	3.07	0.43
34:BA:597:G:C6	34:BA:644:G:C6	3.06	0.43
34:BA:695:A:C5	34:BA:696:A:C5	3.06	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:738:C:N4	34:BA:739:C:N4	2.67	0.43
34:BA:747:C:H2'	34:BA:748:C:C1'	2.49	0.43
34:BA:751:U:H5'	50:BR:24:SER:HB2	2.01	0.43
34:BA:762:C:N3	34:BA:763:G:N7	2.67	0.43
34:BA:1041:A:N1	34:BA:1042:G:N7	2.66	0.43
34:BA:1060:C:N4	38:BF:2:GLY:HA3	2.33	0.43
34:BA:1106:G:OP1	38:BF:172:ARG:HD3	2.19	0.43
34:BA:1121:U:H3	34:BA:1152:A:H2	1.62	0.43
34:BA:1123:A:O3'	45:BM:38:ILE:CG2	2.67	0.43
34:BA:1188:A:C4	34:BA:1189:C:C5	3.07	0.43
34:BA:1295:G:N2	34:BA:1302:U:C2	2.87	0.43
34:BA:1348:U:O3'	44:BL:120:ARG:HD2	2.17	0.43
34:BA:1400:C:C2	35:BC:34:G:C2	3.07	0.43
35:BB:59:U:OP1	35:BB:59:U:C4	2.68	0.43
35:BC:29:A:C5	35:BC:42:G:C2	3.06	0.43
36:B1:52:A:C6	36:B1:53:G:O6	2.71	0.43
37:BE:82:ARG:HD2	37:BE:92:TYR:HE1	1.82	0.43
37:BE:97:TRP:CZ2	37:BE:102:LEU:CD1	2.97	0.43
37:BE:186:ALA:C	37:BE:201:ILE:HB	2.40	0.43
37:BE:187:LEU:HD21	37:BE:203:GLY:C	2.43	0.43
37:BE:228:GLY:O	37:BE:229:VAL:C	2.61	0.43
39:BG:20:TYR:CA	39:BG:26:CYS:HB3	2.48	0.43
40:BH:12:LEU:C	40:BH:13:ILE:HG13	2.43	0.43
42:BJ:40:ALA:O	42:BJ:43:PHE:HB3	2.19	0.43
42:BJ:46:ALA:HA	42:BJ:49:ILE:CD1	2.37	0.43
42:BJ:80:VAL:HG23	42:BJ:85:TYR:HB2	1.99	0.43
43:BK:1:MET:HG2	43:BK:2:LEU:H	1.83	0.43
44:BL:11:LYS:O	44:BL:13:ALA:N	2.52	0.43
44:BL:26:VAL:CG2	44:BL:61:ALA:HB3	2.29	0.43
45:BM:51:ARG:HG2	49:BQ:45:ARG:CZ	2.49	0.43
46:BN:34:ASP:C	46:BN:36:ASP:H	2.27	0.43
48:BP:12:ASN:OD1	48:BP:12:ASN:O	2.37	0.43
48:BP:51:ALA:HA	48:BP:54:VAL:CG2	2.49	0.43
48:BP:57:ARG:O	48:BP:58:GLU:C	2.62	0.43
48:BP:91:ARG:CB	48:BP:98:VAL:HG22	2.20	0.43
49:BQ:7:ILE:C	49:BQ:9:LYS:H	2.27	0.43
49:BQ:36:PHE:CD1	49:BQ:37:PHE:CD2	3.05	0.43
50:BR:7:GLU:O	50:BR:8:LYS:C	2.61	0.43
50:BR:70:LEU:HG	50:BR:78:TYR:CG	2.53	0.43
51:BS:49:LEU:HD12	51:BS:50:LYS:H	1.82	0.43
52:BT:97:SER:CB	52:BT:103:GLY:HA2	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BU:69:THR:C	53:BU:71:LYS:N	2.77	0.43
54:BV:19:VAL:CG2	54:BV:47:HIS:HE2	2.31	0.43
1:AB:110:G:O2'	1:AB:111:U:H5'	2.19	0.43
2:AA:77:C:N4	2:AA:78:A:N6	2.66	0.43
2:AA:191:A:N1	2:AA:799:G:O2'	2.52	0.43
2:AA:262:A:C2'	2:AA:263:C:O5'	2.67	0.43
2:AA:270(C):C:C5	2:AA:270(D):C:C5	3.01	0.43
2:AA:272:G:O2'	2:AA:273:G:O4'	2.37	0.43
2:AA:294:A:C8	2:AA:294:A:C3'	3.02	0.43
2:AA:303:U:C2'	2:AA:304:G:H5'	2.49	0.43
2:AA:337:C:N4	2:AA:339:U:C4	2.87	0.43
2:AA:452:G:H5''	2:AA:453:C:OP2	2.18	0.43
2:AA:512:G:C8	2:AA:512:G:C3'	3.02	0.43
2:AA:527:C:O2'	2:AA:528:A:C5	2.67	0.43
2:AA:575:A:H2'	2:AA:576:U:H5'	2.01	0.43
2:AA:605:C:OP2	6:AF:105:LYS:HE2	2.19	0.43
2:AA:675:A:C4	2:AA:676:A:C2	3.07	0.43
2:AA:681:G:N2	2:AA:682:G:C4	2.87	0.43
2:AA:768:G:H5'	2:AA:1622:G:H4'	2.01	0.43
2:AA:857:C:OP1	27:A3:24:LYS:NZ	2.34	0.43
2:AA:919:G:O2'	2:AA:920:G:H8	2.02	0.43
2:AA:930:U:H3'	2:AA:931:G:O4'	2.19	0.43
2:AA:932:G:H4'	23:AX:24:LYS:HD3	2.01	0.43
2:AA:957:A:N6	2:AA:959:A:C4	2.86	0.43
2:AA:1001:A:N7	2:AA:1002:G:C5	2.87	0.43
2:AA:1002:G:N1	2:AA:1153:C:C4	2.77	0.43
2:AA:1011:G:O6	2:AA:1151:G:C6	2.71	0.43
2:AA:1027:A:O2'	2:AA:1028:A:C5'	2.67	0.43
2:AA:1029:A:C6	2:AA:1125:G:N2	2.87	0.43
2:AA:1029:A:N6	2:AA:1125:G:N2	2.67	0.43
2:AA:1127:A:C5	2:AA:2518:A:H2	2.37	0.43
2:AA:1199:U:N3	2:AA:1200:C:C5	2.87	0.43
2:AA:1210:A:C8	2:AA:1237:A:N6	2.87	0.43
2:AA:1263:U:C6	2:AA:1264:G:C2	3.07	0.43
2:AA:1296:G:N1	2:AA:1297:C:C4	2.86	0.43
2:AA:1317:A:C6	2:AA:1318:C:C4	3.07	0.43
2:AA:1364:G:C8	28:A4:3:LYS:CE	3.02	0.43
2:AA:1422:G:C2'	2:AA:1423:G:H8	2.10	0.43
2:AA:1464:C:C2	2:AA:1465:G:N7	2.87	0.43
2:AA:1543:A:C8	2:AA:1544:C:C2	3.07	0.43
2:AA:1630:G:O6	2:AA:630(A):C:N4	2.52	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1674:G:C6	2:AA:1989:G:O6	2.72	0.43
2:AA:1725:G:N3	2:AA:1725:G:H2'	2.34	0.43
2:AA:1819:A:O4'	2:AA:1821:A:C8	2.72	0.43
2:AA:1856:G:O6	2:AA:1886:C:N3	2.51	0.43
2:AA:1879:C:C4	2:AA:1880:C:H5	2.36	0.43
2:AA:2012:G:P	18:AS:98:LYS:HZ2	2.42	0.43
2:AA:2020:A:OP1	25:A1:31:GLN:NE2	2.42	0.43
2:AA:2044:C:O2	2:AA:2044:C:H2'	2.17	0.43
2:AA:2052:G:H2'	2:AA:2053:G:C8	2.41	0.43
2:AA:2176:A:C4	2:AA:2177:C:C5	3.07	0.43
2:AA:2226:C:C2'	2:AA:2227:A:C4'	2.82	0.43
2:AA:2228:G:O6	2:AA:2229:C:C2	2.71	0.43
2:AA:2262:U:H4'	2:AA:2328:A:C2	2.52	0.43
2:AA:2274:A:C5	2:AA:2276:G:C8	3.06	0.43
2:AA:2276:G:OP2	15:AP:104:PRO:CD	2.52	0.43
2:AA:2332:U:O4'	2:AA:2336:A:N6	2.52	0.43
2:AA:2519:U:O4	2:AA:2542:A:C8	2.72	0.43
2:AA:2536:G:C5	2:AA:2537:U:C5	3.07	0.43
2:AA:2562:U:O2	2:AA:2562:U:H2'	2.19	0.43
2:AA:2632:A:H2'	2:AA:2632:A:N3	2.34	0.43
2:AA:2714:G:O2'	2:AA:2715:C:H5'	2.19	0.43
2:AA:2717:G:N3	2:AA:2718:G:C8	2.87	0.43
2:AA:2749:A:C6	2:AA:2750:A:N7	2.85	0.43
2:AA:2765:A:C5'	2:AA:2766:G:OP2	2.63	0.43
2:AA:2820:A:H62	5:AE:304:ASP:HB3	1.83	0.43
2:AA:2835:A:H61	2:AA:2878:U:C3'	2.32	0.43
2:AA:2866:U:C2'	2:AA:2867:G:O5'	2.66	0.43
3:AC:90:GLY:C	3:AC:91:ALA:O	2.61	0.43
3:AC:131:LEU:HB3	3:AC:136:LEU:CB	2.45	0.43
3:AC:186:ALA:C	3:AC:190:ARG:HH12	2.27	0.43
5:AE:39:GLN:OE1	5:AE:174:LEU:CD2	2.55	0.43
5:AE:45:LYS:HB2	5:AE:305:LYS:HA	1.95	0.43
5:AE:200:ASP:O	5:AE:201:VAL:CG2	2.66	0.43
5:AE:201:VAL:HA	5:AE:310:PHE:O	2.19	0.43
6:AF:22:PHE:O	6:AF:23:GLU:C	2.61	0.43
6:AF:35:VAL:O	6:AF:38:ALA:CB	2.61	0.43
6:AF:225:PRO:CB	6:AF:231:ARG:HH21	2.31	0.43
6:AF:235:PHE:HB3	6:AF:239:ALA:HB1	2.01	0.43
6:AF:242:GLU:O	6:AF:245:GLU:N	2.51	0.43
7:AG:11:HIS:C	7:AG:13:MET:N	2.77	0.43
7:AG:76:ARG:C	7:AG:80:ALA:CB	2.91	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:93:LEU:HD12	7:AG:94:ALA:CA	2.42	0.43
7:AG:136:ARG:HB3	7:AG:137:PRO:HD2	1.99	0.43
8:AH:147:ILE:HA	8:AH:150:VAL:HB	2.00	0.43
9:AI:3:ILE:O	9:AI:4:ASP:C	2.61	0.43
9:AJ:12:LYS:O	9:AJ:13:LEU:C	2.61	0.43
9:AJ:97:SER:HB2	9:AJ:98:PRO:HD2	2.01	0.43
10:AK:5:PHE:HE1	10:AK:16:GLY:N	2.16	0.43
11:AL:36:MET:CE	11:AL:40:LYS:HE3	2.49	0.43
11:AL:79:LEU:CD1	11:AL:137:ILE:HG21	2.48	0.43
12:AM:108:PRO:O	12:AM:109:TYR:CG	2.72	0.43
13:AN:17:ARG:NH1	13:AN:54:LYS:NZ	2.66	0.43
13:AN:31:ARG:HB2	13:AN:32:TYR:CZ	2.50	0.43
13:AN:109:LYS:C	13:AN:110:ASP:CG	2.85	0.43
15:AP:31:PHE:HZ	15:AP:88:PHE:CE2	2.36	0.43
15:AP:48:ASN:CG	15:AP:121:ASP:HB3	2.43	0.43
15:AP:49:VAL:HG12	15:AP:50:VAL:N	2.33	0.43
16:AQ:71:TRP:C	16:AQ:72:GLU:O	2.62	0.43
16:AQ:86:LEU:HA	16:AQ:121:GLY:O	2.19	0.43
18:AS:10:VAL:CB	18:AS:101:SER:O	2.58	0.43
19:AT:1:SER:C	19:AT:2:TRP:CD1	2.97	0.43
20:AU:78:THR:C	20:AU:89:ARG:HE	2.23	0.43
21:AV:51:LEU:HD23	21:AV:52:PHE:O	2.18	0.43
21:AV:73:LYS:HA	21:AV:73:LYS:HD3	1.78	0.43
21:AV:123:VAL:HB	21:AV:159:THR:CG2	2.49	0.43
21:AV:143:ILE:C	21:AV:145:ASP:H	2.27	0.43
21:AV:165:GLU:O	21:AV:166:LEU:HB2	2.17	0.43
22:AW:13:PRO:N	22:AW:16:ARG:CZ	2.82	0.43
23:AX:8:LEU:HD12	23:AX:54:VAL:HG12	2.00	0.43
23:AX:8:LEU:HG	23:AX:31:LEU:HD23	2.00	0.43
25:A1:48:ARG:O	25:A1:52:ASN:OD1	2.37	0.43
26:A2:40:VAL:CG1	26:A2:55:THR:CG2	2.96	0.43
27:A3:24:LYS:C	27:A3:26:PHE:HE1	2.27	0.43
27:A3:30:VAL:CG2	27:A3:62:LEU:HB3	2.46	0.43
31:A7:9:ASN:O	31:A7:10:ARG:O	2.37	0.43
31:A7:38:GLY:O	31:A7:40:HIS:ND1	2.51	0.43
31:A7:40:HIS:ND1	31:A7:40:HIS:N	2.66	0.43
32:A8:26:LYS:HB2	32:A8:44:LYS:HG2	2.00	0.43
34:BA:62:U:OP1	34:BA:386:C:H5'	2.18	0.43
34:BA:68:G:H2'	34:BA:69:G:O5'	2.19	0.43
34:BA:96:G:N2	34:BA:97:G:C4	2.87	0.43
34:BA:108:G:O6	55:BW:15:ARG:CD	2.65	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:119:A:O2'	34:BA:120:A:OP2	2.29	0.43
34:BA:297:G:O2'	34:BA:299:G:N7	2.41	0.43
34:BA:427:U:H5'	39:BG:41:GLY:HA2	2.01	0.43
34:BA:491:G:C8	34:BA:491:G:O5'	2.69	0.43
34:BA:528:C:C4'	34:BA:535:A:C6	3.01	0.43
34:BA:602:A:C2	34:BA:637:G:C5	3.07	0.43
34:BA:665:A:C1'	34:BA:733:A:H1'	2.48	0.43
34:BA:723:U:C2	34:BA:723:U:C3'	3.02	0.43
34:BA:752:G:O2'	34:BA:753:A:P	2.77	0.43
34:BA:801:U:O2	34:BA:801:U:C2'	2.62	0.43
34:BA:815:A:C2	34:BA:1529:G:N3	2.87	0.43
34:BA:937:A:N6	34:BA:938:A:N6	2.67	0.43
34:BA:942:G:N2	44:BL:124:GLN:CD	2.77	0.43
34:BA:956:U:C2'	34:BA:957:U:O5'	2.67	0.43
34:BA:1027:C:C4	34:BA:1028:C:C4	3.07	0.43
34:BA:1142:G:C2	34:BA:1143:G:H1'	2.54	0.43
34:BA:1231:G:OP1	44:BL:126:SER:HB2	2.18	0.43
34:BA:1362:C:C5'	34:BA:1363:A:O5'	2.67	0.43
34:BA:1410:G:N1	34:BA:1490:C:N4	2.35	0.43
34:BA:1414:U:O2'	34:BA:1415:G:O5'	2.36	0.43
34:BA:1435:G:C2	34:BA:1436:U:O4	2.72	0.43
34:BA:1459:C:OP1	55:BW:27:LYS:HD3	2.18	0.43
34:BA:1503:A:C4	36:B1:57:A:C6	3.07	0.43
34:BA:1506:U:OP1	34:BA:1506:U:O4'	2.37	0.43
35:BB:6:U:O2	35:BB:68:U:C2	2.69	0.43
35:BB:15:G:C8	35:BB:15:G:OP2	2.72	0.43
35:BC:35:A:C2	36:B1:62:G:C2	3.07	0.43
36:B1:24:A:O5'	36:B1:24:A:H8	2.02	0.43
36:B1:34:U:O2'	36:B1:35:C:H5'	2.19	0.43
36:B1:60:A:C2'	36:B1:61:U:O5'	2.67	0.43
37:BE:74:LYS:HZ1	37:BE:206:ASP:CG	2.27	0.43
37:BE:182:ILE:HA	37:BE:183:PRO:HD3	1.91	0.43
37:BE:187:LEU:C	37:BE:187:LEU:HD22	2.44	0.43
37:BE:197:VAL:CG1	37:BE:198:ASP:N	2.82	0.43
38:BF:50:ALA:O	38:BF:70:VAL:HG11	2.19	0.43
39:BG:121:VAL:HB	39:BG:136:PRO:HG3	2.01	0.43
39:BG:144:ASP:O	39:BG:184:LYS:CA	2.43	0.43
41:BI:4:TYR:OH	41:BI:67:MET:CE	2.64	0.43
41:BI:6:VAL:HG13	41:BI:63:TYR:N	2.31	0.43
41:BI:16:GLN:OE1	41:BI:16:GLN:HA	2.18	0.43
41:BI:26:ILE:O	41:BI:29:ALA:HB3	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:113:GLU:CD	42:BJ:118:VAL:HB	2.44	0.43
42:BJ:142:GLU:O	42:BJ:145:ALA:N	2.52	0.43
43:BK:44:PHE:HD1	43:BK:79:VAL:CG1	2.31	0.43
43:BK:86:ILE:HG21	43:BK:133:LEU:HB2	2.01	0.43
45:BM:51:ARG:CA	45:BM:59:SER:HB3	2.48	0.43
45:BM:56:HIS:C	45:BM:58:ASP:N	2.71	0.43
46:BN:66:LEU:C	46:BN:68:ALA:N	2.75	0.43
46:BN:95:ILE:CG2	46:BN:108:ILE:HD11	2.37	0.43
47:BO:41:ARG:HH11	47:BO:41:ARG:HB3	1.83	0.43
47:BO:123:LYS:O	47:BO:125:PRO:CD	2.66	0.43
48:BP:16:ASP:CG	48:BP:17:VAL:N	2.76	0.43
48:BP:19:LEU:HD12	48:BP:20:THR:H	1.82	0.43
48:BP:102:ARG:O	48:BP:103:THR:HG23	2.18	0.43
52:BT:11:VAL:HG22	52:BT:20:THR:C	2.43	0.43
53:BU:45:SER:OG	53:BU:46:GLU:N	2.50	0.43
54:BV:51:VAL:HB	54:BV:58:VAL:CG2	2.49	0.43
55:BW:66:ALA:HB1	55:BW:72:LEU:HB2	1.98	0.43
2:AA:32:C:C4	2:AA:33:U:O4	2.71	0.43
2:AA:70:G:OP1	2:AA:112:U:C2	2.71	0.43
2:AA:200:U:H5'	2:AA:201:C:OP2	2.19	0.43
2:AA:226:G:O2'	2:AA:227:A:C5'	2.66	0.43
2:AA:270(D):C:H42	2:AA:270(V):G:H1	1.67	0.43
2:AA:344:G:H2'	2:AA:345:A:N9	2.33	0.43
2:AA:422:A:O2'	2:AA:423:A:O5'	2.37	0.43
2:AA:447:A:N7	2:AA:473:G:C6	2.87	0.43
2:AA:507:A:H1'	2:AA:509:C:C4	2.54	0.43
2:AA:530:G:HO2'	2:AA:531:C:C3'	2.31	0.43
2:AA:589:C:H42	2:AA:668:G:H1	0.59	0.43
2:AA:604:G:C8	2:AA:605:C:H5	2.37	0.43
2:AA:609(A):G:C8	2:AA:610:C:C5	3.06	0.43
2:AA:631:A:C8	2:AA:632:A:C8	3.07	0.43
2:AA:632:A:H2'	2:AA:633:A:C8	2.54	0.43
2:AA:718:A:H3'	2:AA:719:C:H6	1.84	0.43
2:AA:840:C:H4'	2:AA:1192:G:H1'	2.01	0.43
2:AA:969:U:C2'	2:AA:970:C:H5'	2.49	0.43
2:AA:1006:C:O4'	12:AM:24:SER:HB2	2.18	0.43
2:AA:1025:G:N9	2:AA:1134:G:H4'	2.33	0.43
2:AA:1050:A:C6	2:AA:2751:G:C5	3.06	0.43
2:AA:1106:G:H2'	2:AA:1107:G:C8	2.54	0.43
2:AA:1120:G:C6	2:AA:1121:C:C5	3.07	0.43
2:AA:1130:U:H6	2:AA:1130:U:O5'	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1137:G:C5	2:AA:1138:G:H1'	2.54	0.43
2:AA:1148:A:C2	2:AA:1149:G:C5	3.07	0.43
2:AA:1164:G:C4	2:AA:1165:U:C6	3.07	0.43
2:AA:1174:A:N1	2:AA:1176:G:C5'	2.82	0.43
2:AA:1266:G:H5''	18:AS:15:ARG:NH2	2.34	0.43
2:AA:1278:A:N6	2:AA:1292:U:H3	2.17	0.43
2:AA:1395:A:P	2:AA:1603:A:C5'	3.05	0.43
2:AA:1489:U:H4'	2:AA:1490:A:OP2	2.19	0.43
2:AA:1580:A:H2'	2:AA:1581:G:C1'	2.48	0.43
2:AA:1612:C:C2	31:A7:3:ARG:CZ	3.01	0.43
2:AA:1635:G:C8	2:AA:1635:G:O5'	2.72	0.43
2:AA:1856:G:C5	2:AA:1857:G:C2	3.07	0.43
2:AA:2027:G:C5	2:AA:2028:U:C5	3.07	0.43
2:AA:2036:C:H2'	2:AA:2037:G:O5'	2.19	0.43
2:AA:2055:C:H5'	2:AA:2056:G:OP1	2.18	0.43
2:AA:2230:G:C6	2:AA:2231:C:N4	2.87	0.43
2:AA:2248:C:OP2	2:AA:2249:U:H5	2.02	0.43
2:AA:2255:G:C6	2:AA:2256:G:C5	3.07	0.43
2:AA:2313:C:O2'	2:AA:2314:C:C5'	2.66	0.43
2:AA:2392:A:C8	2:AA:2393:A:C8	3.07	0.43
2:AA:2443:C:C5	2:AA:2444:G:N7	2.87	0.43
2:AA:2576:G:H4'	2:AA:2577:A:H5'	1.97	0.43
2:AA:2619:C:C4'	5:AE:246:VAL:HG12	2.49	0.43
2:AA:2652:C:C4	2:AA:2653:U:C4	3.07	0.43
2:AA:2727:G:O2'	13:AN:70:ARG:CZ	2.66	0.43
2:AA:2810:A:C8	2:AA:2810:A:C3'	3.02	0.43
2:AA:2862:G:C2	2:AA:2863:C:C4	3.07	0.43
2:AA:2882:A:H5''	24:A0:98:LEU:CD2	2.41	0.43
2:AA:2889:C:O2	2:AA:2891:G:C1'	2.67	0.43
5:AE:43:GLY:O	5:AE:309:PRO:O	2.36	0.43
5:AE:44:TYR:CE2	5:AE:308:VAL:HG22	2.54	0.43
5:AE:61:PRO:CA	5:AE:69:PRO:HA	2.49	0.43
5:AE:300:VAL:O	5:AE:300:VAL:HG12	2.19	0.43
6:AF:153:VAL:O	6:AF:155:SER:N	2.52	0.43
7:AG:19:GLU:O	7:AG:19:GLU:CG	2.65	0.43
7:AG:24:HIS:CD2	7:AG:72:LYS:HB3	2.54	0.43
7:AG:44:ILE:HG13	7:AG:44:ILE:H	1.68	0.43
9:AJ:25:LEU:HA	9:AJ:28:LYS:HD2	2.01	0.43
9:AJ:115:LYS:NZ	9:AJ:127:LEU:HB3	2.34	0.43
10:AK:115:ILE:HG21	10:AK:129:VAL:HG11	2.01	0.43
11:AL:80:LYS:O	11:AL:81:LYS:C	2.61	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:116:LEU:HD22	11:AL:117:ASN:H	1.84	0.43
12:AM:60:ARG:C	12:AM:71:TYR:CD2	2.97	0.43
13:AN:66:LYS:HZ1	13:AN:82:ASN:ND2	2.17	0.43
14:AO:94:ARG:HH21	14:AO:118:LEU:CB	2.20	0.43
14:AO:132:LYS:O	14:AO:135:GLY:N	2.52	0.43
15:AP:22:GLY:C	15:AP:23:ILE:CG1	2.91	0.43
17:AR:10:GLY:HA2	17:AR:53:ASP:CG	2.43	0.43
17:AR:49:LEU:HD21	17:AR:54:THR:HG22	1.91	0.43
18:AS:27:LYS:HB3	18:AS:31:GLU:OE2	2.19	0.43
18:AS:36:LEU:O	18:AS:39:THR:HG22	2.18	0.43
21:AV:94:VAL:HG13	21:AV:130:ILE:HG21	1.95	0.43
21:AV:176:LEU:HD23	21:AV:177:THR:N	2.34	0.43
22:AW:35:ALA:O	22:AW:36:ALA:C	2.58	0.43
23:AX:13:ILE:H	23:AX:13:ILE:CD1	2.13	0.43
23:AX:26:LEU:CD1	23:AX:28:LEU:HD11	2.48	0.43
23:AX:30:ARG:CZ	23:AX:33:GLN:HB2	2.49	0.43
24:A0:56:LYS:HB3	24:A0:56:LYS:HE3	1.60	0.43
28:A4:7:PRO:CB	28:A4:60:ASN:HB3	2.49	0.43
28:A4:33:VAL:HG12	28:A4:34:ASP:H	1.76	0.43
30:A6:17:GLY:O	30:A6:18:THR:CB	2.67	0.43
33:A9:9:LYS:O	33:A9:10:MET:SD	2.77	0.43
34:BA:37:U:OP2	47:BO:123:LYS:NZ	2.27	0.43
34:BA:140:A:N1	34:BA:224:C:C4	2.87	0.43
34:BA:230:G:O2'	34:BA:231:G:H5'	2.19	0.43
34:BA:251:G:C2	34:BA:266:G:C6	3.07	0.43
34:BA:292:G:C2	34:BA:309:G:C4	3.07	0.43
34:BA:377:G:H1	34:BA:386:C:N4	2.17	0.43
34:BA:492:G:N7	34:BA:494:G:N7	2.67	0.43
34:BA:523:A:HO2'	34:BA:524:G:H8	1.66	0.43
34:BA:550:G:C6	34:BA:551:U:O4	2.71	0.43
34:BA:658:G:C4	34:BA:659:U:C6	3.07	0.43
34:BA:685:G:N2	34:BA:686:U:C5	2.87	0.43
34:BA:730:G:H2'	34:BA:731:G:O5'	2.18	0.43
34:BA:785:G:C6	34:BA:798:G:C6	3.07	0.43
34:BA:945:G:C6	34:BA:1337:G:C5	3.07	0.43
34:BA:975:A:O2'	34:BA:976:G:P	2.77	0.43
34:BA:1160:G:N2	34:BA:1161:C:N1	2.67	0.43
34:BA:1180:A:O2'	34:BA:1181:G:H5'	2.19	0.43
34:BA:1181:G:C6	34:BA:1182:G:N2	2.87	0.43
34:BA:1239:A:H1'	34:BA:1241:G:C8	2.54	0.43
34:BA:1256:A:H61	34:BA:1278:U:Cl'	2.32	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1259:C:N4	34:BA:1276:G:N1	2.48	0.43
34:BA:1296:C:O4'	34:BA:1302:U:C4	2.72	0.43
34:BA:1333:A:H2'	34:BA:1334:G:O4'	2.19	0.43
34:BA:1399:C:O2	34:BA:1401:G:C8	2.72	0.43
34:BA:1472:U:C2	34:BA:1473:A:C8	3.07	0.43
34:BA:1488:G:N3	34:BA:1489:G:C8	2.87	0.43
34:BA:1492:A:N7	34:BA:1493:A:C4	2.87	0.43
35:BB:64:A:C4	35:BB:65:G:N7	2.87	0.43
35:BB:64:A:N1	35:BB:65:G:C5	2.87	0.43
35:BC:51:G:O2'	35:BC:52:U:O5'	2.37	0.43
35:BC:56:C:N3	35:BC:57:G:N3	2.67	0.43
36:B1:50:G:C6	36:B1:51:G:C6	3.06	0.43
37:BE:12:GLU:OE2	37:BE:12:GLU:HA	2.13	0.43
37:BE:45:GLN:O	37:BE:48:MET:N	2.49	0.43
37:BE:74:LYS:NZ	37:BE:206:ASP:OD1	2.52	0.43
38:BF:37:GLN:O	38:BF:38:ARG:C	2.60	0.43
38:BF:127:ARG:C	38:BF:128:PHE:CD1	2.97	0.43
38:BF:147:LYS:HG3	38:BF:205:GLY:N	2.34	0.43
38:BF:205:GLY:O	38:BF:206:GLU:CB	2.67	0.43
39:BG:3:ARG:NE	39:BG:71:SER:H	2.17	0.43
39:BG:8:VAL:O	39:BG:11:LEU:HG	2.19	0.43
39:BG:70:ILE:O	39:BG:71:SER:C	2.61	0.43
41:BI:48:LEU:HD21	41:BI:58:GLY:N	2.34	0.43
41:BI:99:ALA:O	41:BI:100:ASN:C	2.60	0.43
42:BJ:113:GLU:C	42:BJ:115:ARG:H	2.26	0.43
47:BO:75:HIS:CG	47:BO:77:LEU:HD12	2.54	0.43
48:BP:38:GLY:C	48:BP:39:ILE:HG12	2.43	0.43
49:BQ:26:ARG:C	49:BQ:28:GLY:N	2.76	0.43
51:BS:45:THR:HB	51:BS:46:PRO:CD	2.42	0.43
51:BS:71:ARG:HB3	51:BS:71:ARG:NH1	2.34	0.43
52:BT:27:PHE:CE2	52:BT:36:ILE:HD11	2.54	0.43
52:BT:40:LYS:HB3	52:BT:42:TYR:CE1	2.52	0.43
52:BT:96:GLN:HE22	52:BT:97:SER:CB	2.32	0.43
53:BU:34:TYR:CD2	53:BU:34:TYR:N	2.87	0.43
54:BV:28:LYS:HG2	54:BV:29:ARG:N	2.32	0.43
54:BV:30:LEU:HD23	54:BV:31:ILE:H	1.80	0.43
55:BW:62:LEU:O	55:BW:65:LYS:HG2	2.19	0.43
55:BW:72:LEU:CD2	55:BW:76:ALA:CB	2.95	0.43
55:BW:102:GLY:C	55:BW:104:LEU:N	2.75	0.43
1:AB:65:C:C6	1:AB:108:C:N4	2.87	0.42
2:AA:59:U:H6	2:AA:59:U:C5'	2.25	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:72:U:H4'	22:AW:57:LYS:NZ	2.35	0.42
2:AA:121:G:O5'	2:AA:121:G:H8	2.02	0.42
2:AA:135:G:N1	2:AA:144:C:C4	2.80	0.42
2:AA:138:G:C3'	2:AA:138:G:C4	2.99	0.42
2:AA:194:G:C6	2:AA:195:A:C6	3.06	0.42
2:AA:243:U:OP2	2:AA:254:G:N1	2.36	0.42
2:AA:270(R):G:N1	2:AA:270(S):G:C6	2.87	0.42
2:AA:270(U):C:H2'	2:AA:270(V):G:C8	2.54	0.42
2:AA:279:C:C6	2:AA:280:C:N4	2.85	0.42
2:AA:285:C:N3	2:AA:286:C:N4	2.67	0.42
2:AA:295:G:N2	2:AA:296:C:C2	2.87	0.42
2:AA:333:G:N1	2:AA:334:C:C4	2.88	0.42
2:AA:526:A:H5''	2:AA:527:C:P	2.59	0.42
2:AA:533:G:N1	2:AA:560:C:N4	1.92	0.42
2:AA:548:A:H5'	2:AA:549:G:N7	2.30	0.42
2:AA:561:G:C2'	25:A1:45:TYR:OH	2.67	0.42
2:AA:579:G:C2	2:AA:580:C:C5	3.07	0.42
2:AA:627:A:C5	2:AA:637:A:H1'	2.47	0.42
2:AA:653:A:H3'	2:AA:654:A:C4'	2.49	0.42
2:AA:782:A:H2	4:AD:233:ASP:CG	2.27	0.42
2:AA:839:U:H4'	2:AA:1191:G:N2	2.34	0.42
2:AA:878:A:C4	2:AA:879:G:N7	2.87	0.42
2:AA:880:G:O2'	2:AA:881:G:H5'	2.18	0.42
2:AA:976:C:O2	2:AA:976:C:C2'	2.67	0.42
2:AA:1022:G:O6	12:AM:47:THR:CB	2.66	0.42
2:AA:1122:G:N3	2:AA:1123:C:C5	2.87	0.42
2:AA:1139:G:H2'	12:AM:47:THR:HG23	2.00	0.42
2:AA:1157:G:C6	2:AA:1158:C:C4	3.07	0.42
2:AA:1164:G:O2'	2:AA:1165:U:C5'	2.67	0.42
2:AA:1278:A:C2	2:AA:1279:G:C4	3.07	0.42
2:AA:1294:U:H5'	2:AA:1295:C:OP2	2.19	0.42
2:AA:1326:U:HO2'	2:AA:1327:C:H5'	1.82	0.42
2:AA:1429:G:O2'	2:AA:1430:C:O4'	2.33	0.42
2:AA:1544:C:H2'	2:AA:1545:A:O4'	2.19	0.42
2:AA:1690:A:N3	2:AA:1691:C:O4'	2.52	0.42
2:AA:1693:U:C4'	2:AA:1694:C:OP2	2.67	0.42
2:AA:1803:A:N7	2:AA:1804:C:H5	2.15	0.42
2:AA:1805:U:C2	2:AA:1813:G:N2	2.86	0.42
2:AA:1818:U:C3'	4:AD:155:ARG:HG3	2.46	0.42
2:AA:1829:A:C3'	2:AA:1830:C:H5'	2.49	0.42
2:AA:1840:G:C2'	2:AA:1841:U:C5'	2.97	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1911:U:O2'	2:AA:1912:A:C5'	2.48	0.42
2:AA:2007:C:H4'	2:AA:2824:C:O2'	2.19	0.42
2:AA:2013:A:C8	2:AA:2013:A:C3'	3.02	0.42
2:AA:2034:U:O2	2:AA:2034:U:C2'	2.66	0.42
2:AA:2069:G:N2	2:AA:2070:G:C1'	2.81	0.42
2:AA:2102:U:N3	2:AA:2103:C:C4	2.87	0.42
2:AA:2103:C:C2	2:AA:2187:G:N1	2.87	0.42
2:AA:2197:U:C6	2:AA:2224:G:C2	3.07	0.42
2:AA:2205:C:O2'	2:AA:2228:G:N2	2.52	0.42
2:AA:2230:G:C5	2:AA:2231:C:C5	3.07	0.42
2:AA:2252:G:H2'	2:AA:2253:G:O5'	2.18	0.42
2:AA:2276:G:OP2	15:AP:103:ALA:HA	2.19	0.42
2:AA:2334:G:C2'	2:AA:2335:A:H5'	2.27	0.42
2:AA:2380:C:C4	2:AA:2381:C:C5	3.07	0.42
2:AA:2476:A:C8	2:AA:2477:C:C5	3.04	0.42
2:AA:2556:C:C2'	2:AA:2557:G:H5'	2.49	0.42
2:AA:2628:C:C2'	2:AA:2781:A:H2'	2.49	0.42
2:AA:2680:C:H5'	5:AE:302:GLY:CA	2.46	0.42
2:AA:2791:C:O2	2:AA:2805:G:C2	2.71	0.42
2:AA:2807:G:C4	2:AA:2808:U:H5	2.37	0.42
4:AD:60:GLN:O	4:AD:62:ARG:CD	2.55	0.42
4:AD:100:LYS:O	4:AD:101:ARG:HG3	2.19	0.42
4:AD:145:LEU:CB	4:AD:152:GLN:HG2	2.48	0.42
4:AD:167:GLU:O	4:AD:170:TYR:CG	2.72	0.42
4:AD:174:ARG:HE	4:AD:180:VAL:HG21	1.78	0.42
4:AD:222:PRO:O	4:AD:224:VAL:HG23	2.19	0.42
5:AE:44:TYR:HA	5:AE:309:PRO:HG3	1.97	0.42
5:AE:104:PHE:CD2	5:AE:104:PHE:N	2.86	0.42
5:AE:174:LEU:O	5:AE:177:ALA:CA	2.67	0.42
5:AE:222:ARG:CZ	5:AE:232:ARG:C	2.92	0.42
5:AE:261:ARG:O	5:AE:262:THR:HB	2.18	0.42
5:AE:308:VAL:CG1	5:AE:310:PHE:HE1	2.27	0.42
6:AF:1:MET:O	6:AF:3:ALA:N	2.52	0.42
6:AF:155:SER:O	6:AF:158:GLU:N	2.50	0.42
7:AG:87:ALA:O	7:AG:89:PRO:N	2.53	0.42
7:AG:93:LEU:CG	7:AG:94:ALA:H	2.26	0.42
7:AG:105:SER:CB	7:AG:131:THR:HG22	2.48	0.42
8:AH:8:ILE:CG2	8:AH:9:GLU:H	2.31	0.42
8:AH:20:GLY:O	8:AH:21:ASN:OD1	2.37	0.42
8:AH:48:VAL:C	8:AH:49:ILE:CG1	2.90	0.42
8:AH:53:ARG:O	8:AH:56:ASP:OD1	2.37	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:13:LEU:CD2	9:AI:17:GLU:CD	2.93	0.42
9:AI:50:GLY:HA2	9:AI:53:GLN:OE1	2.19	0.42
9:AI:63:LEU:HD21	9:AI:118:LEU:HB3	2.01	0.42
9:AJ:3:ILE:O	9:AJ:4:ASP:C	2.62	0.42
10:AK:7:LYS:CA	10:AK:14:LYS:HE2	2.48	0.42
10:AK:30:LEU:HG	10:AK:30:LEU:H	1.45	0.42
10:AK:52:GLN:O	10:AK:55:GLN:N	2.52	0.42
11:AL:15:ALA:CB	11:AL:50:ALA:HA	2.49	0.42
11:AL:18:ALA:HB1	11:AL:39:CYS:HB3	2.00	0.42
12:AM:54:VAL:HA	12:AM:135:ILE:CD1	2.49	0.42
14:AO:65:ASP:OD2	14:AO:68:GLU:HB2	2.18	0.42
14:AO:66:VAL:CB	14:AO:67:ARG:NH2	2.78	0.42
14:AO:112:GLY:O	14:AO:113:GLN:CD	2.63	0.42
15:AP:41:THR:CG2	15:AP:42:TYR:N	2.82	0.42
15:AP:149:ILE:H	15:AP:149:ILE:HD12	1.84	0.42
16:AQ:28:LYS:O	16:AQ:29:SER:HB2	2.19	0.42
16:AQ:49:THR:H	16:AQ:55:ASP:CG	2.27	0.42
19:AT:29:ASP:CG	19:AT:30:ASP:OD1	2.62	0.42
21:AV:116:VAL:O	21:AV:116:VAL:CG2	2.62	0.42
21:AV:117:VAL:HG12	21:AV:117:VAL:O	2.19	0.42
28:A4:57:ASP:C	28:A4:61:LYS:CG	2.91	0.42
29:A5:4:HIS:CB	29:A5:5:PRO:HD3	2.49	0.42
29:A5:12:SER:C	29:A5:14:SER:HG	2.25	0.42
30:A6:41:ASP:C	30:A6:42:PRO:O	2.62	0.42
32:A8:15:LYS:O	32:A8:22:VAL:CG1	2.53	0.42
32:A8:22:VAL:CG1	32:A8:23:MET:H	2.26	0.42
32:A8:51:ALA:O	32:A8:52:LYS:C	2.61	0.42
34:BA:40:C:O2'	34:BA:41:G:C5'	2.67	0.42
34:BA:58:C:H6	34:BA:58:C:C5'	2.32	0.42
34:BA:101:A:H2'	34:BA:102:G:C5'	2.48	0.42
34:BA:146:G:C2'	34:BA:147:G:H5'	2.49	0.42
34:BA:190:C:H2'	34:BA:190(A):C:O4'	2.17	0.42
34:BA:192:U:H4'	55:BW:57:ARG:NH1	2.33	0.42
34:BA:258:G:O2'	34:BA:259:G:H5'	2.19	0.42
34:BA:378:G:O5'	34:BA:378:G:C8	2.65	0.42
34:BA:393:A:C6	34:BA:394:G:C5	3.07	0.42
34:BA:559:A:O2'	34:BA:560:U:P	2.77	0.42
34:BA:570:G:C2	34:BA:873:A:C6	3.07	0.42
34:BA:687:A:H4'	34:BA:688:G:O5'	2.18	0.42
34:BA:761:G:N7	34:BA:762:C:C5	2.87	0.42
34:BA:769:G:N2	34:BA:811:C:H1'	2.33	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:815:A:C1'	34:BA:1529:G:C6	3.02	0.42
34:BA:836:G:C5	34:BA:851:G:C6	3.07	0.42
34:BA:840:C:H5'	34:BA:848:C:O2	2.19	0.42
34:BA:996:A:C2	34:BA:997:U:C4	3.07	0.42
34:BA:1061:G:H2'	34:BA:1062:U:O4'	2.19	0.42
34:BA:1268:A:C2	34:BA:1269:A:C2	3.07	0.42
34:BA:1422:G:O2'	34:BA:1423:G:H5'	2.19	0.42
34:BA:1428:A:C4	34:BA:1429:C:C4	3.07	0.42
34:BA:1440:C:O2	34:BA:1441:G:H1'	2.19	0.42
34:BA:1442:G:N2	34:BA:1446:A:C4	2.87	0.42
34:BA:1451:A:C8	34:BA:1451:A:OP1	2.72	0.42
35:BB:10:G:N3	35:BB:10:G:H2'	2.33	0.42
35:BC:35:A:C8	35:BC:35:A:C5'	2.96	0.42
35:BC:75:C:C6	35:BC:75:C:C3'	3.02	0.42
36:B1:66:G:OP2	36:B1:66:G:C8	2.72	0.42
37:BE:88:ALA:CB	37:BE:222:ILE:HD13	2.49	0.42
37:BE:144:ARG:O	37:BE:145:LEU:C	2.61	0.42
38:BF:107:GLN:H	38:BF:107:GLN:CD	2.27	0.42
39:BG:98:GLU:CA	39:BG:103:ASN:ND2	2.78	0.42
39:BG:101:LEU:HD22	39:BG:138:TYR:CB	2.47	0.42
39:BG:129:ASN:CG	39:BG:144:ASP:HB3	2.43	0.42
40:BH:107:ARG:C	40:BH:111:GLU:HG3	2.43	0.42
40:BH:131:ILE:HA	40:BH:131:ILE:HD13	1.82	0.42
41:BI:57:GLN:NE2	41:BI:57:GLN:CA	2.80	0.42
43:BK:103:VAL:O	43:BK:108:GLY:N	2.49	0.42
44:BL:99:LEU:HD13	44:BL:99:LEU:HA	1.89	0.42
46:BN:26:ASN:O	46:BN:27:ASN:HB3	2.19	0.42
46:BN:105:VAL:O	46:BN:106:LYS:O	2.37	0.42
47:BO:28:LYS:HG3	47:BO:33:ARG:HH12	1.84	0.42
47:BO:68:ALA:HB1	47:BO:98:TYR:O	2.18	0.42
47:BO:89:ARG:HB3	47:BO:90:VAL:H	1.64	0.42
48:BP:16:ASP:C	48:BP:18:ALA:N	2.76	0.42
48:BP:16:ASP:O	48:BP:17:VAL:C	2.61	0.42
48:BP:60:VAL:O	48:BP:63:THR:HG22	2.19	0.42
48:BP:108:ARG:HD2	48:BP:111:LYS:HD2	2.01	0.42
49:BQ:35:ARG:O	49:BQ:36:PHE:C	2.61	0.42
50:BR:31:LEU:O	50:BR:34:LEU:HB3	2.18	0.42
51:BS:21:VAL:O	51:BS:22:THR:HG22	2.19	0.42
52:BT:87:LYS:O	52:BT:88:TYR:O	2.37	0.42
53:BU:77:GLY:C	53:BU:79:LEU:HD13	2.44	0.42
54:BV:61:TYR:HD2	54:BV:62:ILE:H	1.67	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:77:THR:CG2	54:BV:78:ARG:HG3	2.41	0.42
55:BW:50:GLU:CB	55:BW:99:LEU:CB	2.96	0.42
1:AB:15:A:C2'	1:AB:16:G:OP1	2.67	0.42
1:AB:59:A:O4'	7:AG:144:ARG:NE	2.52	0.42
1:AB:70:C:N4	1:AB:106:G:N1	2.05	0.42
1:AB:70:C:C2'	1:AB:71:C:H5'	2.48	0.42
1:AB:78:A:C2	1:AB:99:A:C6	3.07	0.42
2:AA:72:U:H1'	22:AW:57:LYS:HD2	2.01	0.42
2:AA:104:U:O2'	2:AA:105:C:H5'	2.19	0.42
2:AA:145:G:C2	2:AA:146:G:N9	2.87	0.42
2:AA:225:A:N1	2:AA:230:U:C4	2.87	0.42
2:AA:239:U:C2'	2:AA:240:G:O5'	2.67	0.42
2:AA:270:A:C8	2:AA:270(A):A:C8	3.07	0.42
2:AA:270(D):C:H2'	2:AA:270(E):G:C8	2.55	0.42
2:AA:360:G:HO2'	2:AA:361:G:C4'	2.32	0.42
2:AA:382:G:H1	2:AA:392:C:N4	2.17	0.42
2:AA:410:G:C2	2:AA:2407:G:C5	3.07	0.42
2:AA:482:A:N6	2:AA:506:G:N3	2.66	0.42
2:AA:528:A:H62	2:AA:2042:A:H8	1.64	0.42
2:AA:532:A:OP1	25:A1:25:TRP:NE1	2.52	0.42
2:AA:579:G:H1'	2:AA:2017:U:N3	2.34	0.42
2:AA:705:A:C2'	2:AA:706:A:O5'	2.67	0.42
2:AA:715:G:N3	2:AA:716:A:C2	2.87	0.42
2:AA:723:G:O2'	2:AA:724:U:C5'	2.67	0.42
2:AA:723:G:C4	2:AA:724:U:C6	3.07	0.42
2:AA:734:A:C2	2:AA:735:A:C4	3.06	0.42
2:AA:771:G:N3	2:AA:772:C:C6	2.87	0.42
2:AA:808:G:O2'	2:AA:809:G:C5'	2.67	0.42
2:AA:899:A:C2'	2:AA:900:A:H5'	2.49	0.42
2:AA:943:U:H3'	2:AA:944:G:N7	2.34	0.42
2:AA:951:C:O2'	2:AA:952:G:O5'	2.37	0.42
2:AA:987:G:C8	2:AA:987:G:C3'	3.01	0.42
2:AA:1019:U:N3	2:AA:1143:A:N6	2.66	0.42
2:AA:1031:G:H4'	33:A9:8:LYS:HE2	2.01	0.42
2:AA:1055:G:C1'	9:AI:28:LYS:NZ	2.82	0.42
2:AA:1082:U:C5	2:AA:1083:U:C4	3.07	0.42
2:AA:1183:G:O2'	2:AA:1184:G:N9	2.52	0.42
2:AA:1221:C:C2'	2:AA:1222:C:O5'	2.67	0.42
2:AA:1224:G:HO2'	26:A2:86:HIS:HB3	1.84	0.42
2:AA:1319:G:N3	2:AA:1319:G:H2'	2.34	0.42
2:AA:1365:A:C4	2:AA:1366:A:C8	3.06	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1380:G:N1	2:AA:1381:G:C5	2.87	0.42
2:AA:1381:G:C5	2:AA:1382:G:N7	2.87	0.42
2:AA:1422:G:O6	2:AA:1576:U:C4	2.73	0.42
2:AA:1429:G:H2'	2:AA:1430:C:H6	1.70	0.42
2:AA:1608:A:C5	2:AA:1611:C:C2	3.08	0.42
2:AA:1656:C:C2'	2:AA:1657:C:OP2	2.63	0.42
2:AA:1712:C:N4	2:AA:1746:G:H1	2.18	0.42
2:AA:1769:G:C2	2:AA:1984:G:C6	3.07	0.42
2:AA:1815:A:O4'	2:AA:1817:G:C1'	2.67	0.42
2:AA:1818:U:OP1	4:AD:155:ARG:CB	2.67	0.42
2:AA:1829:A:N6	2:AA:1977:A:N6	2.67	0.42
2:AA:1883:G:N3	2:AA:1884:A:C2	2.87	0.42
2:AA:1906:G:O4'	2:AA:1929:G:H8	2.02	0.42
2:AA:1926:U:H3'	2:AA:1926:U:H6	1.83	0.42
2:AA:1996:C:C6	2:AA:1996:C:C4'	3.02	0.42
2:AA:2019:A:H2'	2:AA:2020:A:H5''	2.00	0.42
2:AA:2128:C:H3'	2:AA:2129:C:H5'	2.02	0.42
2:AA:2354:G:HO2'	27:A3:31:VAL:CG1	2.32	0.42
2:AA:2404:C:N4	2:AA:2405:G:C6	2.87	0.42
2:AA:2423:U:O2'	2:AA:2424:C:OP2	2.28	0.42
2:AA:2526:G:C6	2:AA:2538:C:N3	2.88	0.42
2:AA:2528:U:C2	2:AA:2536:G:C2	3.07	0.42
2:AA:2603:G:H5'	2:AA:2603:G:C8	2.46	0.42
2:AA:2604:U:C2	2:AA:2605:U:C6	3.07	0.42
2:AA:2648:C:N4	2:AA:2672:G:N1	2.36	0.42
2:AA:2790:A:C5'	2:AA:2791:C:OP1	2.68	0.42
2:AA:2820:A:N6	5:AE:304:ASP:HB3	2.33	0.42
2:AA:2851:A:H2'	2:AA:2852:G:O5'	2.18	0.42
2:AA:2899:G:C2'	2:AA:2900:A:O5'	2.67	0.42
3:AC:119:VAL:O	3:AC:122:ALA:HB3	2.19	0.42
3:AC:172:HIS:O	3:AC:173:ALA:CB	2.67	0.42
4:AD:68:ARG:HH21	4:AD:128:ALA:HB3	1.84	0.42
4:AD:71:ASP:CB	4:AD:119:PRO:CD	2.97	0.42
4:AD:140:VAL:CG1	4:AD:190:THR:O	2.66	0.42
4:AD:171:VAL:C	4:AD:182:MET:CG	2.91	0.42
4:AD:231:ALA:HB1	4:AD:232:VAL:H	1.50	0.42
5:AE:45:LYS:CE	5:AE:301:PRO:O	2.66	0.42
5:AE:45:LYS:HB2	5:AE:307:LEU:H	1.85	0.42
5:AE:198:TYR:CD2	5:AE:265:ASN:CA	3.00	0.42
5:AE:222:ARG:HD2	5:AE:222:ARG:H	1.75	0.42
5:AE:222:ARG:CD	5:AE:232:ARG:CA	2.97	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:222:ARG:HB2	5:AE:227:ALA:HA	2.00	0.42
6:AF:145:GLU:OE2	6:AF:196:THR:HG22	2.19	0.42
6:AF:193:LEU:CD1	6:AF:231:ARG:CB	2.94	0.42
7:AG:139:TYR:O	7:AG:140:ARG:C	2.62	0.42
8:AH:104:LEU:HB2	8:AH:151:ARG:NH2	2.28	0.42
9:AI:18:LEU:HD13	9:AI:45:ALA:CA	2.49	0.42
9:AI:20:GLU:CD	9:AJ:53:GLN:CD	2.86	0.42
9:AI:63:LEU:HD11	9:AI:102:ILE:CD1	2.36	0.42
9:AI:97:SER:HB2	9:AI:98:PRO:HD2	2.01	0.42
10:AK:15:LYS:O	10:AK:17:GLU:HG3	2.19	0.42
10:AK:99:ALA:O	10:AK:103:GLN:HG3	2.18	0.42
10:AK:133:LEU:HG	10:AK:138:THR:HB	2.02	0.42
11:AL:14:PRO:O	11:AL:15:ALA:C	2.62	0.42
11:AL:66:PHE:O	11:AL:67:THR:CB	2.67	0.42
11:AL:79:LEU:CD1	11:AL:132:ALA:HA	2.49	0.42
11:AL:139:VAL:O	11:AL:139:VAL:HG23	2.19	0.42
12:AM:66:ASP:O	12:AM:67:ASN:C	2.62	0.42
13:AN:63:VAL:CG2	13:AN:84:CYS:CA	2.90	0.42
13:AN:99:PHE:HB3	13:AN:100:GLY:H	1.44	0.42
14:AO:124:ASP:CG	14:AO:130:ARG:NH2	2.77	0.42
15:AP:67:ALA:O	15:AP:71:PHE:CD1	2.69	0.42
17:AR:13:ILE:HG12	17:AR:33:SER:HB2	1.95	0.42
18:AS:43:GLY:O	18:AS:45:TYR:N	2.52	0.42
20:AU:11:GLN:HG2	20:AU:12:ARG:N	2.34	0.42
20:AU:41:ARG:HD2	20:AU:111:ARG:O	2.19	0.42
20:AU:65:VAL:HA	20:AU:72:ILE:HG12	2.01	0.42
21:AV:26:LYS:O	21:AV:27:GLU:OE2	2.37	0.42
21:AV:88:TYR:O	21:AV:91:PRO:CD	2.66	0.42
21:AV:116:VAL:CB	21:AV:169:VAL:HG22	2.49	0.42
24:A0:31:HIS:ND1	24:A0:31:HIS:N	2.67	0.42
24:A0:39:PRO:O	24:A0:42:LYS:N	2.52	0.42
26:A2:2:PHE:CD1	26:A2:2:PHE:N	2.87	0.42
26:A2:69:ILE:CG2	26:A2:89:ASN:N	2.82	0.42
26:A2:87:ARG:HB2	26:A2:87:ARG:NH1	2.33	0.42
27:A3:38:VAL:O	27:A3:40:GLN:CD	2.62	0.42
27:A3:59:LEU:C	27:A3:60:PHE:CD1	2.97	0.42
27:A3:78:PHE:CD1	27:A3:78:PHE:N	2.78	0.42
29:A5:32:GLU:O	29:A5:33:CYS:O	2.36	0.42
29:A5:43:HIS:O	29:A5:52:TYR:OH	2.36	0.42
32:A8:12:ARG:O	32:A8:13:ARG:O	2.37	0.42
33:A9:9:LYS:NZ	33:A9:16:VAL:HG21	2.34	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:119:A:C5	34:BA:240:C:C5	3.07	0.42
34:BA:197:A:C6	34:BA:220:G:O2'	2.72	0.42
34:BA:197:A:N1	34:BA:220:G:O2'	2.52	0.42
34:BA:242:C:H2'	34:BA:243:A:O5'	2.20	0.42
34:BA:267:C:C2	34:BA:268:C:C5	3.07	0.42
34:BA:463:A:O3'	51:BS:80:PHE:O	2.37	0.42
34:BA:566:G:C4'	34:BA:567:G:OP1	2.61	0.42
34:BA:570:G:C2	34:BA:873:A:N1	2.87	0.42
34:BA:592:G:C2'	34:BA:593:G:C5'	2.96	0.42
34:BA:618:C:H3'	34:BA:619:U:H5''	2.01	0.42
34:BA:654:G:O6	34:BA:655:A:C6	2.72	0.42
34:BA:682:G:O5'	34:BA:682:G:H8	2.02	0.42
34:BA:719:C:OP2	34:BA:720:C:N4	2.52	0.42
34:BA:720:C:C6	34:BA:720:C:H3'	2.54	0.42
34:BA:764:C:H2'	34:BA:765:G:O4'	2.20	0.42
34:BA:856:C:N3	34:BA:857:C:C5	2.87	0.42
34:BA:885:G:C2	34:BA:913:A:N1	2.87	0.42
34:BA:905:U:O4	34:BA:906:G:C4	2.72	0.42
34:BA:998:G:H2'	34:BA:998:G:N3	2.34	0.42
34:BA:1060:C:H5'	45:BM:52:GLY:N	2.26	0.42
34:BA:1061:G:C2	34:BA:1197:G:N3	2.87	0.42
34:BA:1125:U:C4	45:BM:5:ARG:NH2	2.87	0.42
34:BA:1191:A:OP1	38:BF:3:ASN:ND2	2.52	0.42
34:BA:1208:C:O2'	34:BA:1209:C:C5'	2.67	0.42
34:BA:1216:G:OP1	49:BQ:3:ARG:HD2	2.18	0.42
34:BA:1227:A:N7	34:BA:1228:C:C6	2.88	0.42
34:BA:1261:A:C5	34:BA:1262:C:C4	3.07	0.42
34:BA:1288:A:H61	34:BA:1371:G:H1'	1.84	0.42
34:BA:1299:A:N7	34:BA:1301:U:C1'	2.59	0.42
34:BA:1341:U:H5'	35:BC:32:C:OP1	2.19	0.42
34:BA:1382:C:O2'	34:BA:1383:C:H5'	2.18	0.42
34:BA:1414:U:O2	34:BA:1415:G:C8	2.72	0.42
34:BA:1469:G:N2	34:BA:1470:G:C4	2.87	0.42
34:BA:1503:A:O2'	34:BA:1504:G:P	2.77	0.42
34:BA:1530:G:C6	34:BA:1531:A:C6	3.07	0.42
34:BA:1533:C:O2'	34:BA:1535:C:H5	1.99	0.42
35:BB:37:G:O5'	35:BB:37:G:C1'	2.67	0.42
35:BB:49:C:OP2	35:BB:49:C:C4'	2.67	0.42
35:BB:60:C:H5'	35:BB:61:C:OP2	2.19	0.42
35:BC:35:A:C2	36:B1:62:G:N1	2.87	0.42
36:B1:37:C:O2'	36:B1:39:A:N6	2.51	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:15:VAL:CG2	37:BE:209:ARG:CD	2.76	0.42
37:BE:17:PHE:CA	37:BE:42:ILE:CG2	2.97	0.42
37:BE:216:SER:O	37:BE:220:ASP:CG	2.63	0.42
38:BF:74:GLY:C	38:BF:76:VAL:N	2.77	0.42
39:BG:4:TYR:CE1	39:BG:5:ILE:O	2.71	0.42
39:BG:31:CYS:CB	39:BG:33:MET:HG2	2.35	0.42
39:BG:122:ARG:NH2	39:BG:134:ASP:OD2	2.52	0.42
40:BH:152:ARG:HD3	43:BK:64:LYS:HZ3	1.82	0.42
41:BI:19:LEU:HG	41:BI:23:LYS:CD	2.49	0.42
41:BI:50:TYR:CE2	41:BI:52:ILE:CD1	2.99	0.42
41:BI:76:ALA:O	41:BI:80:ARG:CG	2.60	0.42
43:BK:31:PHE:O	43:BK:32:LYS:C	2.63	0.42
43:BK:36:LEU:HD12	43:BK:48:TYR:HB2	2.00	0.42
43:BK:46:LYS:NZ	43:BK:65:TYR:H	2.04	0.42
43:BK:97:VAL:CG2	43:BK:98:LYS:H	2.15	0.42
44:BL:23:ASN:OD1	44:BL:25:LYS:HE3	2.18	0.42
44:BL:36:TYR:CZ	44:BL:70:LYS:HE3	2.53	0.42
45:BM:82:ILE:HG13	45:BM:82:ILE:H	1.67	0.42
46:BN:32:ILE:C	46:BN:40:ILE:CG1	2.88	0.42
46:BN:57:THR:HG23	46:BN:60:ALA:HB2	2.00	0.42
46:BN:61:ALA:CB	46:BN:90:GLY:O	2.68	0.42
47:BO:37:CYS:CA	47:BO:58:VAL:HG22	2.48	0.42
48:BP:49:THR:O	48:BP:50:GLU:C	2.61	0.42
50:BR:5:LYS:O	50:BR:8:LYS:N	2.52	0.42
51:BS:25:ARG:C	51:BS:26:ARG:O	2.58	0.42
51:BS:75:ARG:HG3	51:BS:75:ARG:HH11	1.84	0.42
52:BT:96:GLN:C	52:BT:96:GLN:NE2	2.78	0.42
53:BU:56:THR:CB	53:BU:58:LEU:HD12	2.47	0.42
55:BW:14:LYS:C	55:BW:18:GLN:HG3	2.44	0.42
55:BW:57:ARG:NH2	55:BW:102:GLY:HA3	2.34	0.42
55:BW:62:LEU:H	55:BW:62:LEU:CD2	2.15	0.42
1:AB:18:G:P	7:AG:149:ARG:NE	2.91	0.42
1:AB:21:G:C2	1:AB:22:U:O2	2.72	0.42
1:AB:44:G:C5'	1:AB:45:A:OP1	2.59	0.42
2:AA:36:G:N1	2:AA:445:C:C2	2.88	0.42
2:AA:61:G:H2'	2:AA:62:C:O5'	2.19	0.42
2:AA:69:C:OP2	2:AA:69:C:O4'	2.36	0.42
2:AA:120:U:H1'	2:AA:150:C:N1	2.35	0.42
2:AA:262:A:C2'	2:AA:263:C:C5'	2.97	0.42
2:AA:270(X):G:C5	2:AA:270(Y):G:C1'	3.02	0.42
2:AA:276:A:OP2	2:AA:276:A:O4'	2.37	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:307:G:H1	2:AA:310:A:H5'	1.84	0.42
2:AA:318:C:O2	2:AA:334:C:O2	2.37	0.42
2:AA:365:C:C6	2:AA:365:C:C3'	3.02	0.42
2:AA:373:U:H2'	2:AA:374:A:OP2	2.19	0.42
2:AA:418:G:H2'	2:AA:419:C:O5'	2.19	0.42
2:AA:460:A:H3'	2:AA:461:C:C5	2.55	0.42
2:AA:461:C:N3	2:AA:468:G:O6	2.53	0.42
2:AA:489:G:C6	2:AA:491:G:C5	3.07	0.42
2:AA:499:U:H2'	2:AA:500:G:O4'	2.19	0.42
2:AA:507:A:O4'	2:AA:509:C:C2	2.71	0.42
2:AA:529:A:H2	2:AA:2022:U:P	2.42	0.42
2:AA:550:G:C2'	2:AA:1220:A:C2	3.02	0.42
2:AA:563:G:C5'	2:AA:564:C:OP2	2.67	0.42
2:AA:579:G:N1	2:AA:580:C:C4	2.88	0.42
2:AA:587:C:H4'	2:AA:588:U:OP2	2.19	0.42
2:AA:593:G:C2	2:AA:594:U:N1	2.88	0.42
2:AA:641:C:H5	2:AA:642:G:C2	2.36	0.42
2:AA:653:A:N6	2:AA:655:A:N3	2.66	0.42
2:AA:671:C:C2	2:AA:809:G:N2	2.81	0.42
2:AA:703:U:H2'	2:AA:704:G:C1'	2.49	0.42
2:AA:778:G:C5	2:AA:779:U:C2	3.08	0.42
2:AA:815:C:N4	2:AA:816:C:H41	2.17	0.42
2:AA:851:U:H4'	23:AX:46:ASN:HA	2.02	0.42
2:AA:929:G:C1'	23:AX:43:ILE:HG13	2.49	0.42
2:AA:974:G:C8	26:A2:80:TYR:CD1	3.06	0.42
2:AA:1013:C:OP2	2:AA:1014:U:OP1	2.37	0.42
2:AA:1301:A:O3'	2:AA:1607:C:N4	2.52	0.42
2:AA:1305:C:H2'	2:AA:1306:C:C6	2.54	0.42
2:AA:1326:U:H5'	2:AA:2010:G:H21	1.84	0.42
2:AA:1358:G:H3'	2:AA:1371:G:H22	1.84	0.42
2:AA:1380:G:C2	2:AA:1381:G:C8	3.07	0.42
2:AA:449(A):G:C6	2:AA:1450:C:C5	3.06	0.42
2:AA:1555:G:C8	2:AA:1555:G:P	3.12	0.42
2:AA:1615:C:N4	2:AA:1617:C:N1	2.67	0.42
2:AA:1655:A:O3'	5:AE:212:GLY:CA	2.67	0.42
2:AA:1681:G:C5'	2:AA:1682:G:OP2	2.67	0.42
2:AA:1686:C:O2	2:AA:1702:G:N1	2.47	0.42
2:AA:1767:C:C2	2:AA:1768:U:C6	3.07	0.42
2:AA:1779:U:C4	2:AA:1784:A:C2	3.08	0.42
2:AA:1817:G:C5'	2:AA:1817:G:C8	3.00	0.42
2:AA:1900:A:O2'	2:AA:1901:A:P	2.77	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1968:G:C2'	2:AA:1969:A:OP2	2.61	0.42
2:AA:1990:C:N3	2:AA:1991:U:O2	2.52	0.42
2:AA:2027:G:N9	2:AA:2037:G:N2	2.62	0.42
2:AA:2055:C:C5'	2:AA:2056:G:OP1	2.67	0.42
2:AA:2121:G:H2'	2:AA:2122:U:C5	2.46	0.42
2:AA:2124:G:H2'	2:AA:2125:G:C4	2.55	0.42
2:AA:2219:G:OP1	4:AD:184:LEU:HD22	2.18	0.42
2:AA:2269:A:C8	2:AA:2270:G:N7	2.87	0.42
2:AA:2396:G:P	28:A4:28:ARG:CZ	3.07	0.42
2:AA:2517:C:H42	2:AA:2567:G:H1	1.65	0.42
2:AA:2594:C:H2'	2:AA:2595:G:O4'	2.17	0.42
2:AA:2606:C:C2	2:AA:2607:G:C8	3.07	0.42
2:AA:2628:C:O2'	2:AA:2781:A:H3'	2.18	0.42
2:AA:2634:G:C2	2:AA:2635:C:H6	2.37	0.42
2:AA:2662:A:N1	2:AA:2663:G:H1'	2.34	0.42
2:AA:2700:C:C2'	2:AA:2701:C:C5'	2.87	0.42
2:AA:2807:G:C8	2:AA:2808:U:H5	2.36	0.42
2:AA:2817:G:C5	2:AA:2818:G:N7	2.87	0.42
3:AC:19:ILE:HD12	3:AC:223:ARG:HG2	2.01	0.42
4:AD:132:GLU:HB3	4:AD:133:ASN:H	1.62	0.42
5:AE:111:THR:O	5:AE:112:LEU:O	2.37	0.42
6:AF:206:ASN:O	6:AF:207:LEU:CG	2.67	0.42
6:AF:225:PRO:CB	6:AF:231:ARG:HE	2.20	0.42
7:AG:20:LYS:HB3	7:AG:133:ASN:ND2	2.34	0.42
7:AG:25:MET:O	7:AG:71:ALA:O	2.37	0.42
8:AH:25:VAL:HG11	8:AH:74:MET:CB	2.47	0.42
8:AH:137:LYS:CD	8:AH:138:GLN:H	2.20	0.42
9:AI:19:ALA:O	9:AI:22:VAL:HB	2.19	0.42
9:AI:118:LEU:HD12	9:AI:125:VAL:HG21	2.01	0.42
10:AK:43:ASN:O	10:AK:46:ALA:HB3	2.20	0.42
12:AM:18:ILE:HG21	12:AM:21:ARG:HH11	1.84	0.42
12:AM:77:GLY:O	12:AM:79:PHE:N	2.51	0.42
13:AN:22:ILE:CB	13:AN:40:VAL:HG12	2.44	0.42
15:AP:22:GLY:O	15:AP:23:ILE:CB	2.67	0.42
15:AP:43:PRO:CD	21:AV:99:HIS:HE2	2.21	0.42
15:AP:142:LYS:CE	15:AP:143:VAL:N	2.74	0.42
16:AQ:23:ARG:NH2	16:AQ:48:VAL:HG21	2.23	0.42
16:AQ:59:ALA:CB	16:AQ:91:ARG:NH1	2.79	0.42
18:AS:28:SER:OG	18:AS:31:GLU:CB	2.57	0.42
20:AU:15:PRO:C	20:AU:17:HIS:N	2.69	0.42
20:AU:31:LEU:CD1	20:AU:101:LEU:HB2	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AU:61:GLU:HB2	20:AU:75:GLU:CG	2.49	0.42
21:AV:51:LEU:HD21	21:AV:65:LEU:HG	2.01	0.42
21:AV:66:VAL:CG2	21:AV:69:VAL:CG2	2.93	0.42
21:AV:71:MET:O	21:AV:78:PRO:CA	2.67	0.42
21:AV:81:VAL:CG1	21:AV:82:ASP:N	2.83	0.42
21:AV:148:THR:C	21:AV:168:VAL:CG2	2.92	0.42
23:AX:58:VAL:C	23:AX:59:VAL:CG2	2.92	0.42
24:A0:54:LEU:N	24:A0:54:LEU:HD12	2.31	0.42
24:A0:90:ARG:NH2	24:A0:117:VAL:CG1	2.82	0.42
25:A1:48:ARG:O	25:A1:52:ASN:ND2	2.52	0.42
25:A1:50:ARG:HH22	26:A2:74:TYR:N	2.17	0.42
25:A1:102:GLU:HA	25:A1:103:PRO:HD2	1.44	0.42
28:A4:17:GLN:CB	28:A4:33:VAL:HB	2.49	0.42
30:A6:21:TYR:HD2	30:A6:22:TYR:H	1.60	0.42
32:A8:60:LEU:O	32:A8:61:MET:C	2.63	0.42
33:A9:7:VAL:O	33:A9:8:LYS:HE3	2.19	0.42
33:A9:27:CYS:HB3	33:A9:32:HIS:CB	2.49	0.42
34:BA:46:G:C2	34:BA:396:G:C6	3.07	0.42
34:BA:110:C:H2'	34:BA:111:G:H8	1.85	0.42
34:BA:167:G:O2'	34:BA:168:G:C5'	2.61	0.42
34:BA:325:A:H2'	34:BA:326:G:O5'	2.18	0.42
34:BA:332:G:C2'	34:BA:333:G:O5'	2.67	0.42
34:BA:373:A:C5	34:BA:482:A:C5	3.06	0.42
34:BA:411:A:C8	34:BA:413:G:C8	3.07	0.42
34:BA:449:C:C5	34:BA:450:G:C4	3.07	0.42
34:BA:571:U:OP1	34:BA:819:A:C2'	2.67	0.42
34:BA:690:G:C6	34:BA:691:G:N3	2.87	0.42
34:BA:721:G:O6	53:BU:71:LYS:NZ	2.43	0.42
34:BA:748:C:C6	34:BA:748:C:C3'	3.02	0.42
34:BA:770:C:H1'	34:BA:900:A:C2	2.54	0.42
34:BA:860:A:N6	34:BA:861:G:C2	2.88	0.42
34:BA:925:G:O2'	34:BA:927:G:H5''	2.19	0.42
34:BA:926:G:C2'	34:BA:1505:G:H21	2.28	0.42
34:BA:926:G:N3	34:BA:1505:G:C2	2.87	0.42
34:BA:962:C:C5	34:BA:963:G:C8	3.07	0.42
34:BA:969:A:C2	34:BA:970:C:N1	2.88	0.42
34:BA:992:U:C4'	34:BA:993:G:O5'	2.57	0.42
34:BA:995:C:O2'	49:BQ:4:LYS:NZ	2.52	0.42
34:BA:1021:G:N3	34:BA:1022:G:H1'	2.33	0.42
34:BA:1024:G:C2'	34:BA:1025:U:O5'	2.67	0.42
34:BA:1060:C:OP1	45:BM:51:ARG:HD3	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1160:G:C2	34:BA:1161:C:C5	3.07	0.42
34:BA:1224:G:O6	34:BA:1322:C:O4'	2.37	0.42
34:BA:1255:G:N2	34:BA:1259:C:O2	2.52	0.42
34:BA:1274:G:H21	34:BA:1275:A:N6	2.14	0.42
34:BA:1357:A:H61	34:BA:1363:A:H2	1.61	0.42
34:BA:1373:G:H5''	42:BJ:36:LYS:HB2	1.98	0.42
34:BA:1511:G:C5	34:BA:1512:U:C5	3.06	0.42
34:BA:1524:C:OP1	46:BN:120:ARG:NH2	2.52	0.42
35:BB:37:G:C8	35:BB:39:U:O4	2.73	0.42
35:BB:50:U:C2	35:BB:65:G:N2	2.87	0.42
35:BB:51:G:C2	35:BB:52:U:C2	3.07	0.42
37:BE:16:HIS:O	37:BE:17:PHE:C	2.62	0.42
37:BE:18:GLY:HA2	37:BE:42:ILE:N	2.25	0.42
37:BE:32:ILE:HD11	37:BE:40:HIS:CG	2.54	0.42
37:BE:59:GLU:O	37:BE:62:ALA:HB3	2.19	0.42
37:BE:61:LEU:CD2	37:BE:66:GLY:O	2.67	0.42
37:BE:153:ARG:HH22	37:BE:156:LYS:HB2	1.84	0.42
38:BF:2:GLY:C	38:BF:3:ASN:CG	2.88	0.42
38:BF:77:ILE:CG2	38:BF:81:GLY:HA2	2.49	0.42
39:BG:77:ASN:O	39:BG:78:LEU:C	2.62	0.42
39:BG:115:ARG:O	39:BG:116:GLN:C	2.58	0.42
39:BG:163:GLU:C	39:BG:165:MET:N	2.72	0.42
41:BI:7:ASN:HD21	41:BI:62:TRP:HD1	1.66	0.42
41:BI:32:ASN:ND2	41:BI:32:ASN:H	2.17	0.42
42:BJ:28:ASN:O	42:BJ:31:MET:CB	2.67	0.42
42:BJ:42:ILE:HG21	42:BJ:116:ALA:HB1	2.01	0.42
46:BN:33:THR:C	46:BN:40:ILE:CD1	2.83	0.42
46:BN:84:VAL:CG2	53:BU:88:LYS:HZ1	2.31	0.42
47:BO:69:TYR:C	47:BO:100:ILE:HD11	2.44	0.42
48:BP:24:GLY:CA	48:BP:66:LEU:HB3	2.34	0.42
48:BP:37:THR:O	48:BP:37:THR:HG23	2.20	0.42
48:BP:90:LEU:CD2	48:BP:93:ARG:NH1	2.78	0.42
49:BQ:10:ALA:C	49:BQ:12:ARG:H	2.26	0.42
49:BQ:41:ARG:CA	49:BQ:44:LEU:HD23	2.46	0.42
50:BR:11:VAL:HB	50:BR:12:ILE:H	1.61	0.42
50:BR:71:GLN:HB2	50:BR:78:TYR:CD2	2.54	0.42
54:BV:10:PHE:C	54:BV:11:VAL:HG23	2.44	0.42
1:AB:16:G:C5	1:AB:17:C:C5	3.07	0.42
2:AA:131:G:N3	2:AA:131:G:H2'	2.34	0.42
2:AA:270:A:H8	2:AA:270:A:O5'	2.03	0.42
2:AA:430:G:C8	2:AA:430:G:O5'	2.71	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:514:A:C4	2:AA:515:A:N7	2.88	0.42
2:AA:529:A:C2	2:AA:2022:U:H5''	2.54	0.42
2:AA:533:G:H2'	2:AA:534:U:C1'	2.49	0.42
2:AA:534:U:H5''	25:A1:46:GLU:HG2	1.99	0.42
2:AA:558:G:H2'	2:AA:559:G:H8	1.85	0.42
2:AA:565:C:O4'	2:AA:1252:G:O6	2.37	0.42
2:AA:598:G:H21	6:AF:33:LYS:CE	2.32	0.42
2:AA:611:C:O2	2:AA:611:C:C2'	2.66	0.42
2:AA:693:C:C2	2:AA:694:U:C5	3.07	0.42
2:AA:711:G:H2'	2:AA:712:G:C5'	2.49	0.42
2:AA:741:G:C2	2:AA:757:U:H1'	2.54	0.42
2:AA:751:A:C2	2:AA:789:A:C5	3.08	0.42
2:AA:785:G:C2	2:AA:786:C:C4	3.08	0.42
2:AA:809:G:C6	2:AA:810:U:C4	3.07	0.42
2:AA:873:G:C2	2:AA:905:U:C2	3.07	0.42
2:AA:935:C:H2'	2:AA:936:C:C6	2.54	0.42
2:AA:969:U:C4'	23:AX:14:GLY:O	2.66	0.42
2:AA:1031:G:O6	2:AA:1032:A:N6	2.52	0.42
2:AA:1044:G:C5'	2:AA:1047:G:H4'	2.49	0.42
2:AA:1105:U:H4'	9:AI:30:GLY:CA	2.46	0.42
2:AA:1155:A:OP1	25:A1:55:ARG:HD3	2.18	0.42
2:AA:1213:A:C6	2:AA:1237:A:N9	2.87	0.42
2:AA:1237:A:C2'	2:AA:1238:G:OP2	2.67	0.42
2:AA:1286:A:C4	2:AA:1329:U:N3	2.87	0.42
2:AA:1303:G:N2	2:AA:1626:G:H1'	2.34	0.42
2:AA:1424:G:OP2	2:AA:1424:G:H8	2.01	0.42
2:AA:1528:A:C2'	2:AA:1529:A:H4'	2.49	0.42
2:AA:1568:G:C3'	4:AD:60:GLN:CG	2.97	0.42
2:AA:1613:G:N2	2:AA:1619:G:N9	2.67	0.42
2:AA:1818:U:H5	4:AD:155:ARG:NH2	2.18	0.42
2:AA:1858:G:C8	2:AA:1858:G:OP2	2.73	0.42
2:AA:1972:A:N3	2:AA:1973:G:N7	2.67	0.42
2:AA:1998:G:H2'	2:AA:1999:C:O5'	2.18	0.42
2:AA:2015:A:N7	29:A5:6:VAL:HG21	2.33	0.42
2:AA:2052:G:N3	5:AE:246:VAL:HG23	2.34	0.42
2:AA:2259:G:N7	2:AA:2260:C:C5	2.88	0.42
2:AA:2263:C:C6	2:AA:2263:C:C3'	3.01	0.42
2:AA:2295:C:H2'	2:AA:2296:U:C4'	2.50	0.42
2:AA:2309:A:O4'	2:AA:2309:A:P	2.77	0.42
2:AA:2371:G:HO2'	30:A6:47:HIS:CD2	2.29	0.42
2:AA:2392:A:C2	2:AA:2429:G:C5	3.08	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2417:C:H2'	2:AA:2418:A:C5'	2.50	0.42
2:AA:2431:U:C2	2:AA:2433:A:OP2	2.73	0.42
2:AA:2509:G:H2'	2:AA:2510:C:O4'	2.19	0.42
2:AA:2513:G:C2	2:AA:2514:U:C2	3.07	0.42
2:AA:2514:U:C4'	5:AE:247:ARG:NH1	2.82	0.42
2:AA:2548:G:N2	2:AA:2560:C:N3	2.46	0.42
2:AA:2565:A:O5'	2:AA:2566:A:OP2	2.38	0.42
2:AA:2621:A:HO2'	5:AE:255:GLN:CD	2.17	0.42
2:AA:2640:G:H4'	12:AM:70:PHE:CD2	2.54	0.42
2:AA:2653:U:H3'	2:AA:2654:A:N7	2.35	0.42
2:AA:2657:A:N1	2:AA:2665:A:C8	2.87	0.42
2:AA:2694:G:C2	2:AA:2695:C:C6	3.07	0.42
2:AA:2695:C:O2'	2:AA:2696:U:O4'	2.38	0.42
2:AA:2733:A:N6	2:AA:2734:A:C6	2.87	0.42
2:AA:2795:G:N3	2:AA:2795:G:C2'	2.79	0.42
2:AA:2799:A:H2'	2:AA:2802:G:C6	2.54	0.42
2:AA:2868:A:O2'	2:AA:2869:G:C5'	2.61	0.42
2:AA:2888:C:H2'	2:AA:2889:C:C6	2.53	0.42
3:AC:100:ILE:O	3:AC:126:LYS:HD3	2.19	0.42
3:AC:166:ASP:OD1	3:AC:166:ASP:C	2.63	0.42
4:AD:85:ASN:HD22	4:AD:85:ASN:H	1.55	0.42
4:AD:108:ASN:CG	4:AD:109:LEU:N	2.77	0.42
5:AE:194:ARG:HB2	5:AE:195:ALA:H	1.31	0.42
5:AE:216:ARG:HD3	5:AE:253:GLN:C	2.44	0.42
6:AF:28:SER:O	6:AF:29:ASP:C	2.62	0.42
7:AG:18:ILE:O	7:AG:18:ILE:HG22	2.17	0.42
7:AG:139:TYR:CE1	7:AG:156:ARG:HA	2.54	0.42
8:AH:167:LEU:CD1	8:AH:169:ARG:HH12	2.31	0.42
9:AI:13:LEU:HD13	9:AI:21:LEU:HD12	2.01	0.42
9:AI:103:LYS:HD3	9:AI:114:ILE:HD13	2.02	0.42
9:AJ:76:VAL:CG1	9:AJ:118:LEU:HD23	2.50	0.42
10:AK:91:GLY:O	10:AK:92:SER:O	2.38	0.42
11:AL:19:THR:H	11:AL:20:PRO:HD3	1.82	0.42
11:AL:37:GLU:CD	11:AL:41:ARG:HH12	2.27	0.42
11:AL:93:LYS:CA	11:AL:96:ILE:HG13	2.48	0.42
11:AL:132:ALA:HA	11:AL:137:ILE:CD1	2.50	0.42
12:AM:23:ALA:O	12:AM:24:SER:C	2.61	0.42
12:AM:42:GLU:OE2	12:AM:105:LEU:O	2.37	0.42
12:AM:60:ARG:O	12:AM:71:TYR:CB	2.68	0.42
13:AN:77:ILE:O	13:AN:77:ILE:HG23	2.19	0.42
15:AP:83:PHE:HA	15:AP:136:TRP:CZ2	2.55	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:142:LYS:C	15:AP:142:LYS:CD	2.89	0.42
16:AQ:19:ASP:HB2	16:AQ:22:GLN:CG	2.49	0.42
18:AS:15:ARG:O	18:AS:18:ARG:N	2.53	0.42
20:AU:81:LYS:HZ2	20:AU:81:LYS:HB3	1.85	0.42
21:AV:90:GLU:H	21:AV:91:PRO:CD	2.32	0.42
22:AW:49:LEU:HD23	22:AW:49:LEU:HA	1.80	0.42
23:AX:11:SER:OG	23:AX:13:ILE:HD11	2.19	0.42
23:AX:32:GLN:CD	23:AX:32:GLN:C	2.88	0.42
24:A0:87:TYR:O	24:A0:88:ARG:C	2.62	0.42
26:A2:35:LEU:HD12	26:A2:63:HIS:NE2	2.34	0.42
26:A2:57:GLN:NE2	26:A2:100:GLY:C	2.78	0.42
27:A3:33:ALA:CB	27:A3:66:LYS:N	2.83	0.42
27:A3:35:ASN:C	27:A3:36:ILE:HG12	2.43	0.42
27:A3:44:LYS:CB	27:A3:45:PHE:CD1	2.98	0.42
28:A4:31:ILE:C	28:A4:32:HIS:ND1	2.77	0.42
29:A5:33:CYS:CB	29:A5:34:PRO:HD2	2.42	0.42
30:A6:16:ALA:CB	30:A6:19:GLY:HA3	2.50	0.42
30:A6:40:TYR:N	30:A6:50:PHE:CD1	2.87	0.42
30:A6:40:TYR:CB	30:A6:50:PHE:CE2	3.03	0.42
31:A7:39:ARG:O	31:A7:40:HIS:HB2	2.19	0.42
31:A7:43:THR:O	31:A7:44:VAL:C	2.61	0.42
34:BA:22:G:C2	34:BA:23:C:N3	2.87	0.42
34:BA:138:G:N2	34:BA:226:G:C1'	2.83	0.42
34:BA:162:A:H2'	34:BA:163:C:H5'	2.01	0.42
34:BA:229:U:O3'	51:BS:33:ILE:HD13	2.19	0.42
34:BA:257:G:C6	34:BA:258:G:N7	2.88	0.42
34:BA:293:G:H4'	34:BA:609:A:C2	2.54	0.42
34:BA:306:G:C2	34:BA:307:C:C6	3.07	0.42
34:BA:392:G:C6	34:BA:393:A:N7	2.88	0.42
34:BA:408:A:H5'	39:BG:116:GLN:HG3	2.01	0.42
34:BA:444:C:N3	34:BA:491:G:C2	2.87	0.42
34:BA:501:C:C6	34:BA:501:C:C3'	3.02	0.42
34:BA:594:G:N2	34:BA:596:C:H41	2.18	0.42
34:BA:607:A:C5	34:BA:608:A:C8	3.08	0.42
34:BA:629:G:C4	34:BA:630:G:C8	3.07	0.42
34:BA:643:C:C4	34:BA:644:G:N7	2.87	0.42
34:BA:666:G:O2'	34:BA:667:G:H5'	2.20	0.42
34:BA:766:A:C5	34:BA:814:A:N1	2.87	0.42
34:BA:769:G:H5'	34:BA:1513:A:H4'	2.01	0.42
34:BA:790:A:C6	34:BA:791:G:N1	2.87	0.42
34:BA:809:G:C2'	34:BA:810:C:O5'	2.67	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:836:G:C2	34:BA:837:G:N9	2.88	0.42
34:BA:837:G:C2	34:BA:838:G:C4	3.06	0.42
34:BA:964:A:N3	34:BA:969:A:C1'	2.74	0.42
34:BA:970:C:H2'	34:BA:1231:G:H1'	2.01	0.42
34:BA:1034:G:C2'	34:BA:1035:A:H8	2.29	0.42
34:BA:1093:A:C2	34:BA:1095:U:O4'	2.73	0.42
34:BA:1267:C:C6	34:BA:1267:C:C3'	3.02	0.42
34:BA:1294:G:C2	34:BA:1295:G:C5	3.08	0.42
34:BA:1305:G:O4'	34:BA:1305:G:P	2.77	0.42
34:BA:1326:C:OP2	56:BX:6:ARG:HD2	2.19	0.42
34:BA:1409:C:N4	34:BA:1410:G:O6	2.52	0.42
34:BA:1410:G:H2'	34:BA:1411:C:C6	2.54	0.42
34:BA:1531:A:C4	34:BA:1532:U:C4	3.08	0.42
34:BA:1538:C:O2	36:B1:52:A:C2	2.72	0.42
35:BB:22:G:H2'	35:BB:23:A:N7	2.28	0.42
35:BB:54:U:H5'	35:BB:54:U:H6	1.84	0.42
35:BC:51:G:N2	35:BC:63:C:C2	2.82	0.42
36:B1:35:C:H2'	36:B1:36:A:C8	2.54	0.42
37:BE:125:PRO:O	37:BE:126:GLU:C	2.61	0.42
37:BE:145:LEU:CD1	37:BE:149:LEU:HD12	2.49	0.42
38:BF:26:LYS:N	38:BF:26:LYS:CD	2.70	0.42
38:BF:120:VAL:HG22	38:BF:137:ALA:HB2	2.01	0.42
39:BG:53:ASP:O	39:BG:56:VAL:CB	2.47	0.42
39:BG:58:LEU:HD22	39:BG:62:GLN:HG2	2.00	0.42
39:BG:76:ARG:O	39:BG:79:PHE:N	2.53	0.42
39:BG:187:ARG:CG	39:BG:188:LEU:N	2.80	0.42
41:BI:10:LEU:HD21	41:BI:26:ILE:CD1	2.42	0.42
41:BI:85:VAL:CG1	41:BI:88:VAL:CG2	2.96	0.42
42:BJ:65:ALA:O	42:BJ:68:ASN:HB2	2.19	0.42
42:BJ:77:SER:C	42:BJ:156:TRP:CH2	2.97	0.42
42:BJ:114:ARG:NH1	42:BJ:114:ARG:CG	2.74	0.42
42:BJ:136:LYS:O	42:BJ:138:LYS:N	2.52	0.42
43:BK:16:ALA:O	43:BK:17:THR:C	2.62	0.42
43:BK:60:ARG:HG2	43:BK:61:VAL:N	2.35	0.42
43:BK:65:TYR:HA	43:BK:79:VAL:HG23	2.00	0.42
43:BK:67:PRO:C	43:BK:68:ARG:O	2.62	0.42
44:BL:5:TYR:CD1	44:BL:18:PHE:CE2	3.07	0.42
44:BL:17:VAL:HA	44:BL:63:ILE:CG1	2.49	0.42
44:BL:22:GLY:H	44:BL:59:PHE:HA	1.84	0.42
44:BL:65:VAL:O	44:BL:66:ARG:HB2	2.19	0.42
44:BL:83:ARG:O	44:BL:84:ALA:C	2.62	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BL:116:LYS:N	44:BL:116:LYS:CD	2.79	0.42
46:BN:11:LYS:N	46:BN:13:GLN:HE21	2.18	0.42
46:BN:16:SER:HA	46:BN:79:SER:O	2.20	0.42
46:BN:28:THR:O	46:BN:44:SER:CB	2.59	0.42
46:BN:99:GLN:HA	46:BN:105:VAL:HG21	1.98	0.42
47:BO:44:THR:HG22	47:BO:45:PRO:N	2.34	0.42
48:BP:81:LEU:HA	48:BP:84:ILE:CD1	2.49	0.42
49:BQ:51:GLY:C	49:BQ:53:LEU:H	2.27	0.42
50:BR:12:ILE:HG23	50:BR:27:VAL:HG11	2.01	0.42
50:BR:25:THR:CG2	50:BR:66:LEU:HD12	2.49	0.42
50:BR:29:VAL:HG11	50:BR:81:LEU:CD2	2.44	0.42
50:BR:36:ILE:CG2	50:BR:37:ASN:ND2	2.81	0.42
50:BR:36:ILE:O	50:BR:39:LEU:HB3	2.19	0.42
50:BR:40:SER:O	50:BR:44:LYS:CE	2.67	0.42
52:BT:52:LYS:HE3	52:BT:52:LYS:HB2	1.78	0.42
53:BU:25:THR:HG22	53:BU:42:ARG:HH22	1.80	0.42
53:BU:54:ARG:C	53:BU:55:ARG:HG2	2.45	0.42
1:AB:69:G:C6	1:AB:70:C:C4	3.08	0.42
2:AA:33:U:H1'	2:AA:34:C:H5	1.84	0.42
2:AA:103:A:C2'	2:AA:104:U:O5'	2.68	0.42
2:AA:122:G:N2	2:AA:130:C:N1	2.67	0.42
2:AA:126:A:O2'	2:AA:127:A:H5'	2.19	0.42
2:AA:138:G:C8	19:AT:39:ASP:OD1	2.73	0.42
2:AA:196:A:C2	2:AA:2068:U:C5	3.07	0.42
2:AA:242:G:C8	2:AA:254:G:O6	2.72	0.42
2:AA:300:A:C4	2:AA:319:C:H1'	2.54	0.42
2:AA:301:G:H5''	2:AA:334:C:H2'	2.02	0.42
2:AA:303:U:C2	2:AA:304:G:N7	2.87	0.42
2:AA:462:C:C4	2:AA:468:G:C2	3.06	0.42
2:AA:498:G:C8	2:AA:498:G:OP2	2.71	0.42
2:AA:568:U:O4	2:AA:973:A:H5'	2.20	0.42
2:AA:618:G:C6	2:AA:618(A):C:N4	2.87	0.42
2:AA:670:A:C4'	2:AA:671:C:OP1	2.66	0.42
2:AA:683:C:O5'	2:AA:683:C:H6	2.01	0.42
2:AA:729:G:C2	2:AA:1775:U:C2	3.07	0.42
2:AA:778:G:N2	2:AA:787:U:N1	2.67	0.42
2:AA:850:C:C5'	23:AX:18:ASP:HB2	2.49	0.42
2:AA:859:G:H2'	2:AA:2268:A:C2	2.54	0.42
2:AA:864:G:N3	2:AA:865:C:C6	2.87	0.42
2:AA:877:U:O5'	2:AA:877:U:C6	2.66	0.42
2:AA:882:G:N1	2:AA:894:C:N4	2.30	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:910:A:C2'	2:AA:911:A:O5'	2.68	0.42
2:AA:911:A:OP1	2:AA:912:C:C6	2.73	0.42
2:AA:974(A):C:C1'	2:AA:989:G:H1	2.23	0.42
2:AA:1000:A:H2'	2:AA:1001:A:C1'	2.49	0.42
2:AA:1370:C:N3	2:AA:1371:G:C8	2.88	0.42
2:AA:1427:A:O2'	2:AA:1428:C:OP2	2.37	0.42
2:AA:1490:A:N3	2:AA:1490:A:H2'	2.34	0.42
2:AA:1495:A:C5	2:AA:1496:A:N6	2.88	0.42
2:AA:1502:C:C2	2:AA:1503:U:C6	3.07	0.42
2:AA:1527:G:C8	2:AA:1527:G:P	3.13	0.42
2:AA:1534:G:H2'	2:AA:1535:U:H5'	2.01	0.42
2:AA:1779:U:C5	2:AA:1784:A:N1	2.75	0.42
2:AA:1788:C:C2'	2:AA:1789:A:O5'	2.67	0.42
2:AA:1819:A:O4'	2:AA:1821:A:N7	2.51	0.42
2:AA:1927:A:H2'	2:AA:1928:A:C1'	2.49	0.42
2:AA:1932:A:C2	2:AA:1933:G:N9	2.88	0.42
2:AA:2004:G:N7	2:AA:2005:A:C5	2.87	0.42
2:AA:2014:A:C5	2:AA:2015:A:N6	2.88	0.42
2:AA:2038:G:C5	2:AA:2039:C:C5	3.08	0.42
2:AA:2088:G:C2'	2:AA:2089:U:O5'	2.66	0.42
2:AA:2090:G:C6	2:AA:2091:U:O4	2.72	0.42
2:AA:2108:C:C5	2:AA:2109:U:O4	2.73	0.42
2:AA:2119:A:P	2:AA:2120:G:C5'	3.04	0.42
2:AA:2210:G:N2	4:AD:69:ASP:HB3	2.35	0.42
2:AA:2217:G:C2	2:AA:2218:G:N7	2.87	0.42
2:AA:2269:A:H2'	2:AA:2270:G:O5'	2.19	0.42
2:AA:2287:A:N6	2:AA:2289:G:C4	2.88	0.42
2:AA:2436:G:H2'	2:AA:2437:U:C5'	2.49	0.42
2:AA:2467:C:N3	2:AA:2484:G:O6	2.52	0.42
2:AA:2472:G:C2	2:AA:2475:C:C2	3.08	0.42
2:AA:2476:A:H2'	2:AA:2477:C:C5'	2.49	0.42
2:AA:2494:G:C2	2:AA:2495:G:C8	3.08	0.42
2:AA:2522:U:O2	2:AA:2522:U:H2'	2.19	0.42
2:AA:2734:A:H8	2:AA:2734:A:C5'	2.32	0.42
2:AA:2740:A:C5	2:AA:2741:A:C5	3.07	0.42
2:AA:2769:C:C2'	2:AA:2770:G:C5'	2.93	0.42
2:AA:2771:C:O2	2:AA:2771:C:C2'	2.66	0.42
2:AA:2836:U:H5'	2:AA:2836:U:H6	1.85	0.42
2:AA:2889:C:C2	2:AA:2891:G:C8	3.08	0.42
3:AC:118:ASP:O	3:AC:119:VAL:CG1	2.68	0.42
4:AD:64:ILE:CG1	4:AD:102:TYR:HB2	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:148:GLY:C	4:AD:149:ARG:CZ	2.92	0.42
5:AE:187:HIS:O	5:AE:188:ALA:C	2.63	0.42
5:AE:211:GLN:CD	5:AE:216:ARG:N	2.77	0.42
5:AE:226:HIS:CD2	5:AE:229:GLN:OE1	2.72	0.42
6:AF:1:MET:C	6:AF:18:LEU:CG	2.89	0.42
6:AF:98:ARG:H	6:AF:98:ARG:HG2	1.45	0.42
6:AF:154:VAL:O	6:AF:158:GLU:OE2	2.37	0.42
6:AF:167:ASP:OD2	6:AF:231:ARG:HA	2.19	0.42
6:AF:194:PHE:HB3	6:AF:212:VAL:HG22	2.01	0.42
8:AH:34:ARG:NH1	8:AH:36:PHE:HZ	2.17	0.42
9:AI:39:VAL:CG2	9:AJ:39:VAL:HG13	2.47	0.42
9:AI:74:ILE:CG1	9:AI:92:VAL:HG11	2.49	0.42
9:AJ:59:PHE:HZ	9:AJ:108:LYS:HE2	1.83	0.42
9:AJ:73:VAL:O	9:AJ:77:VAL:HG23	2.19	0.42
10:AK:108:LEU:O	10:AK:109:LYS:HE2	2.19	0.42
11:AL:32:GLY:O	11:AL:60:VAL:CG1	2.62	0.42
11:AL:53:ILE:H	11:AL:53:ILE:HG13	1.60	0.42
11:AL:79:LEU:HD11	11:AL:132:ALA:CB	2.50	0.42
11:AL:93:LYS:HD2	21:AV:108:VAL:O	2.19	0.42
11:AL:121:LEU:O	11:AL:125:MET:HG2	2.20	0.42
12:AM:58:GLU:C	12:AM:61:VAL:HB	2.43	0.42
12:AM:135:ILE:C	12:AM:138:THR:HG1	2.26	0.42
13:AN:38:VAL:HG22	13:AN:61:VAL:HG22	2.02	0.42
13:AN:63:VAL:N	13:AN:84:CYS:SG	2.86	0.42
14:AO:61:ALA:CB	14:AO:107:LYS:HE2	2.50	0.42
14:AO:69:ILE:HA	14:AO:73:VAL:HG23	2.01	0.42
15:AP:35:ASN:O	15:AP:126:VAL:HG23	2.19	0.42
15:AP:42:TYR:HB2	15:AP:43:PRO:HD3	2.02	0.42
15:AP:44:ALA:HB1	15:AP:156:ASN:O	2.20	0.42
15:AP:45:GLN:CG	15:AP:152:SER:O	2.67	0.42
17:AR:7:ASP:OD1	17:AR:30:HIS:C	2.57	0.42
17:AR:29:THR:HB	17:AR:31:PHE:CE1	2.54	0.42
19:AT:19:ASP:OD1	19:AT:20:PHE:N	2.53	0.42
19:AT:23:LYS:CA	19:AT:67:ARG:HA	2.50	0.42
19:AT:56:ASN:O	19:AT:57:THR:CG2	2.61	0.42
20:AU:18:GLU:C	20:AU:21:LYS:NZ	2.73	0.42
20:AU:19:ARG:N	20:AU:21:LYS:NZ	2.66	0.42
21:AV:47:SER:O	21:AV:48:THR:C	2.61	0.42
21:AV:118:HIS:CD2	21:AV:168:VAL:CG2	3.03	0.42
24:A0:85:PRO:C	24:A0:87:TYR:N	2.77	0.42
25:A1:86:ALA:HB1	25:A1:90:LEU:HD23	2.00	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:97:ASP:C	25:A1:101:ARG:HG2	2.35	0.42
26:A2:13:ARG:C	26:A2:14:VAL:HG23	2.45	0.42
26:A2:20:ILE:HD13	26:A2:67:LYS:HZ3	1.83	0.42
26:A2:50:ASP:N	26:A2:50:ASP:OD1	2.52	0.42
26:A2:61:VAL:HG22	26:A2:98:ILE:H	1.85	0.42
26:A2:77:GLY:C	26:A2:78:VAL:HG22	2.42	0.42
27:A3:31:VAL:HG13	27:A3:32:LYS:N	2.33	0.42
28:A4:58:LYS:CB	28:A4:62:ARG:HH21	2.31	0.42
29:A5:40:LYS:HE3	29:A5:49:CYS:SG	2.59	0.42
31:A7:28:ARG:O	31:A7:31:LEU:N	2.53	0.42
34:BA:49:U:O4	34:BA:362:G:N3	2.53	0.42
34:BA:266:G:O2'	34:BA:267:C:P	2.77	0.42
34:BA:276:G:OP1	52:BT:20:THR:HG21	2.20	0.42
34:BA:292:G:N7	34:BA:293:G:H1'	2.34	0.42
34:BA:386:C:C6	34:BA:386:C:C3'	3.02	0.42
34:BA:389:A:C6	34:BA:390:C:C1'	3.02	0.42
34:BA:399:G:O2'	34:BA:400:C:H5'	2.19	0.42
34:BA:401:C:OP2	39:BG:73:ARG:NH2	2.49	0.42
34:BA:410:G:C2	34:BA:429:U:C2	3.07	0.42
34:BA:445:G:N1	34:BA:490:G:C6	2.88	0.42
34:BA:456:C:N4	34:BA:476:G:H1	2.18	0.42
34:BA:517:G:N2	34:BA:532:A:O3'	2.36	0.42
34:BA:521:G:N2	34:BA:522:C:C2	2.88	0.42
34:BA:577:G:O2'	34:BA:578:C:H5'	2.19	0.42
34:BA:583:A:O2'	34:BA:584:G:C5'	2.67	0.42
34:BA:616:G:H2'	34:BA:617:G:H5'	2.01	0.42
34:BA:694:A:C2	34:BA:695:A:C4	3.07	0.42
34:BA:921:U:O2'	34:BA:922:G:H5'	2.18	0.42
34:BA:976:G:OP1	49:BQ:32:SER:HA	2.18	0.42
34:BA:1043:C:N3	34:BA:1044:A:N7	2.67	0.42
34:BA:1108:G:H4'	34:BA:1191:A:H1'	2.01	0.42
34:BA:1117:G:N1	34:BA:1184:G:C6	2.88	0.42
34:BA:1166:G:H1'	34:BA:1169:A:N6	2.32	0.42
34:BA:1226:C:H5''	48:BP:103:THR:O	2.20	0.42
34:BA:1432:G:N1	34:BA:1467:G:C6	2.88	0.42
35:BB:18:G:N1	35:BB:57:G:N2	2.58	0.42
35:BB:36:A:N6	36:B1:65:U:O2	2.44	0.42
35:BB:50:U:C4	35:BB:65:G:N1	2.88	0.42
35:BC:31:A:C5	35:BC:32:C:C5	3.07	0.42
36:B1:49:A:O2'	36:B1:50:G:H5'	2.20	0.42
37:BE:10:LEU:C	37:BE:11:LEU:HD23	2.44	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:16:HIS:CE1	37:BE:209:ARG:HH11	2.37	0.42
37:BE:56:ARG:NH1	37:BE:56:ARG:HB2	2.33	0.42
37:BE:110:GLN:O	37:BE:111:ARG:C	2.61	0.42
37:BE:112:VAL:O	37:BE:116:GLU:CD	2.62	0.42
37:BE:155:LEU:HB3	37:BE:159:PRO:HG3	1.98	0.42
37:BE:219:VAL:O	37:BE:222:ILE:HG23	2.20	0.42
38:BF:76:VAL:O	38:BF:83:ARG:CG	2.67	0.42
39:BG:34:GLU:C	39:BG:35:ARG:CG	2.91	0.42
39:BG:43:HIS:HB3	39:BG:46:LYS:CG	2.41	0.42
39:BG:124:GLY:C	39:BG:126:ILE:N	2.78	0.42
40:BH:105:VAL:CG1	40:BH:106:PRO:HD3	2.48	0.42
40:BH:111:GLU:O	40:BH:112:LEU:C	2.59	0.42
41:BI:31:GLU:C	41:BI:33:TYR:N	2.76	0.42
41:BI:96:PRO:O	53:BU:32:ARG:NH2	2.52	0.42
44:BL:5:TYR:CE1	44:BL:18:PHE:CZ	3.07	0.42
44:BL:116:LYS:HA	44:BL:121:ARG:O	2.20	0.42
45:BM:7:LYS:HG3	45:BM:71:LEU:HD22	1.98	0.42
46:BN:71:LYS:O	46:BN:72:ALA:C	2.62	0.42
47:BO:7:ILE:O	47:BO:10:LEU:HB2	2.20	0.42
47:BO:58:VAL:C	47:BO:60:LEU:CD1	2.93	0.42
47:BO:117:ARG:CZ	47:BO:123:LYS:C	2.92	0.42
49:BQ:29:ARG:HH11	49:BQ:42:ILE:CD1	2.25	0.42
2:AA:48:G:N2	2:AA:178:G:C6	2.87	0.42
2:AA:175:G:C4	2:AA:176:G:C8	3.06	0.42
2:AA:215:G:O2'	2:AA:216:A:OP2	2.35	0.42
2:AA:270(C):C:C6	2:AA:270(D):C:C5	3.07	0.42
2:AA:302:C:HO2'	2:AA:303:U:P	2.43	0.42
2:AA:338:G:C8	20:AU:21:LYS:HD2	2.51	0.42
2:AA:432:A:C2	2:AA:433:C:C1'	3.02	0.42
2:AA:447:A:C8	2:AA:454:A:N6	2.88	0.42
2:AA:458:G:H2'	2:AA:469:G:N1	2.29	0.42
2:AA:571:A:C2	2:AA:573:G:N7	2.88	0.42
2:AA:603:A:C6	2:AA:604:G:C6	3.07	0.42
2:AA:794:G:C2'	2:AA:795:C:O5'	2.67	0.42
2:AA:846:C:N4	2:AA:932:G:H1	2.18	0.42
2:AA:928:G:C2	2:AA:929:G:N1	2.88	0.42
2:AA:969:U:C5	2:AA:970:C:H5	2.37	0.42
2:AA:993:G:O6	2:AA:1161:C:N3	2.52	0.42
2:AA:1027:A:H2	2:AA:2487:G:O2'	2.02	0.42
2:AA:1078:U:O2	2:AA:1088:A:H4'	2.20	0.42
2:AA:1090:U:OP2	2:AA:1090:U:H6	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1136:G:C2	2:AA:1137:G:N9	2.88	0.42
2:AA:1153:C:O2	2:AA:1153:C:C2'	2.64	0.42
2:AA:1249:U:C6	2:AA:1249:U:C3'	3.02	0.42
2:AA:1303:G:N7	2:AA:1304:C:C5	2.87	0.42
2:AA:1330:C:O2	2:AA:1330:C:H2'	2.18	0.42
2:AA:1409:C:C2	2:AA:1594:G:N2	2.87	0.42
2:AA:1414:G:N1	2:AA:1588:C:C4	2.73	0.42
2:AA:1417:C:O2'	2:AA:1588:C:O4'	2.34	0.42
2:AA:1443:G:O6	2:AA:1548:C:N3	2.53	0.42
2:AA:1483:G:N1	2:AA:1507:A:H1'	2.34	0.42
2:AA:1486:A:O2'	2:AA:1487:G:O4'	2.35	0.42
2:AA:1526:G:P	2:AA:1527:G:OP1	2.77	0.42
2:AA:1568:G:P	4:AD:60:GLN:CB	3.08	0.42
2:AA:1606:G:O2'	2:AA:1608:A:C2	2.71	0.42
2:AA:1609:A:C8	2:AA:1616:A:N3	2.87	0.42
2:AA:1625:C:C5	2:AA:1626:G:C8	3.07	0.42
2:AA:1649:G:O6	2:AA:2009:G:C6	2.73	0.42
2:AA:1657:C:OP1	5:AE:232:ARG:C	2.63	0.42
2:AA:1660:C:C2	2:AA:2001:A:C2	3.08	0.42
2:AA:1805:U:C5'	4:AD:235:PRO:HB3	2.50	0.42
2:AA:1806:C:C4	2:AA:1807:G:N7	2.88	0.42
2:AA:1943:U:N3	2:AA:1945:G:O4'	2.53	0.42
2:AA:2018:G:C2	2:AA:2019:A:C1'	3.03	0.42
2:AA:2031:A:O4'	2:AA:2031:A:P	2.78	0.42
2:AA:2092:U:H5	2:AA:2227:A:C6	2.32	0.42
2:AA:2101:G:O2'	2:AA:2102:U:C5'	2.62	0.42
2:AA:2119:A:C6	2:AA:2147:G:P	3.12	0.42
2:AA:2147:G:P	2:AA:2147:G:O4'	2.78	0.42
2:AA:2181:G:N1	2:AA:2182:G:C8	2.87	0.42
2:AA:2196:C:O2	2:AA:2196:C:C2'	2.66	0.42
2:AA:2260:C:H2'	2:AA:2261:C:C6	2.55	0.42
2:AA:2289:G:H5''	2:AA:2384:G:H1'	2.02	0.42
2:AA:2296:U:H3	16:AQ:16:ALA:HB2	1.85	0.42
2:AA:2360:A:H5''	32:A8:49:VAL:HG22	2.01	0.42
2:AA:2505:G:C2'	2:AA:2576:G:N2	2.65	0.42
2:AA:2580:U:H2'	2:AA:2581:G:O4'	2.20	0.42
2:AA:2585:U:C6	2:AA:2585:U:OP1	2.63	0.42
2:AA:2593:U:C2	2:AA:2600:A:N1	2.88	0.42
2:AA:2596:U:C3'	2:AA:2597:G:O4'	2.68	0.42
2:AA:2615:U:HO2'	2:AA:2616:C:C5'	2.32	0.42
2:AA:2637:U:C2'	2:AA:2638:G:O4'	2.61	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2747:G:O6	2:AA:2755:C:C5'	2.64	0.42
2:AA:2748:A:N7	2:AA:2749:A:C4	2.88	0.42
2:AA:2785:C:O2'	5:AE:100:TRP:N	2.53	0.42
2:AA:2808:U:N1	2:AA:2892:A:N6	2.68	0.42
2:AA:2836:U:C5	2:AA:2883:A:N6	2.88	0.42
3:AC:145:VAL:C	3:AC:152:ILE:CD1	2.93	0.42
4:AD:70:LYS:HB3	4:AD:70:LYS:HZ2	1.84	0.42
4:AD:213:LYS:HB3	4:AD:215:LYS:CG	2.46	0.42
5:AE:76:PRO:CA	5:AE:292:PRO:HB2	2.49	0.42
5:AE:211:GLN:NE2	5:AE:215:LYS:CB	2.81	0.42
6:AF:107:ARG:O	6:AF:110:ALA:N	2.52	0.42
6:AF:151:GLN:OE1	6:AF:154:VAL:CG2	2.65	0.42
7:AG:85:GLN:O	7:AG:86:THR:C	2.62	0.42
7:AG:95:THR:O	7:AG:97:GLN:N	2.51	0.42
7:AG:134:LEU:CD1	7:AG:136:ARG:HE	2.12	0.42
9:AI:60:ASP:CG	9:AI:101:VAL:HG11	2.44	0.42
9:AJ:18:LEU:HD13	9:AJ:45:ALA:CA	2.50	0.42
10:AK:29:PHE:CD2	10:AK:30:LEU:HD21	2.51	0.42
10:AK:70:GLU:OE1	10:AK:74:LYS:HD2	2.19	0.42
10:AK:78:THR:CA	10:AK:144:HIS:NE2	2.79	0.42
10:AK:88:ARG:CB	10:AK:122:ARG:O	2.68	0.42
10:AK:115:ILE:CG2	10:AK:116:GLU:N	2.57	0.42
10:AK:130:PRO:CA	10:AK:140:THR:HG23	2.50	0.42
10:AK:130:PRO:HB3	10:AK:140:THR:HG23	2.02	0.42
12:AM:13:ASP:HA	12:AM:38:VAL:HG13	2.00	0.42
12:AM:94:GLY:O	12:AM:95:ARG:C	2.62	0.42
13:AN:23:LYS:HE3	13:AN:24:VAL:O	2.20	0.42
13:AN:107:ARG:HG2	13:AN:115:ILE:HG21	2.01	0.42
14:AO:116:HIS:HB3	14:AO:118:LEU:CD1	2.49	0.42
15:AP:42:TYR:O	21:AV:119:ASN:ND2	2.50	0.42
16:AQ:22:GLN:HA	16:AQ:25:ARG:HB2	2.02	0.42
16:AQ:31:LYS:HB2	16:AQ:31:LYS:HE3	1.86	0.42
16:AQ:46:GLN:CD	16:AQ:57:THR:HG21	2.45	0.42
18:AS:69:LEU:CD1	18:AS:107:LEU:HD13	2.44	0.42
19:AT:39:ASP:O	19:AT:43:GLU:OE2	2.37	0.42
20:AU:1:SER:N	20:AU:6:LYS:HD3	2.35	0.42
21:AV:43:PHE:N	21:AV:43:PHE:CD2	2.86	0.42
21:AV:79:ILE:O	21:AV:80:HIS:CB	2.68	0.42
21:AV:166:LEU:CD1	21:AV:167:THR:OG1	2.68	0.42
22:AW:7:GLU:O	22:AW:8:ILE:C	2.62	0.42
22:AW:12:THR:O	22:AW:16:ARG:CD	2.67	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:11:SER:OG	23:AX:13:ILE:CG1	2.67	0.42
24:A0:27:SER:O	24:A0:30:THR:CB	2.67	0.42
24:A0:105:ARG:NH1	24:A0:105:ARG:CB	2.80	0.42
25:A1:23:GLY:O	25:A1:24:PHE:O	2.38	0.42
25:A1:28:ARG:CZ	25:A1:28:ARG:HB3	2.47	0.42
26:A2:39:PHE:CZ	26:A2:42:GLY:HA2	2.54	0.42
26:A2:63:HIS:N	26:A2:95:ILE:HG23	2.34	0.42
26:A2:78:VAL:O	26:A2:80:TYR:N	2.52	0.42
27:A3:27:GLY:O	27:A3:28:GLY:C	2.62	0.42
27:A3:29:GLU:O	27:A3:31:VAL:CB	2.67	0.42
27:A3:36:ILE:HG12	27:A3:72:LYS:CE	2.49	0.42
27:A3:60:PHE:CA	27:A3:81:ILE:HD13	2.50	0.42
28:A4:5:LEU:O	28:A4:56:VAL:CG1	2.54	0.42
29:A5:14:SER:OG	29:A5:15:LYS:N	2.53	0.42
32:A8:21:LYS:O	32:A8:22:VAL:HG23	2.20	0.42
34:BA:25:C:N4	34:BA:558:G:C2	2.87	0.42
34:BA:40:C:C4	34:BA:403:C:N3	2.88	0.42
34:BA:116:A:C2'	34:BA:117:G:H5'	2.49	0.42
34:BA:118:U:H2'	34:BA:288:A:C6	2.51	0.42
34:BA:134:A:N9	34:BA:325:A:C2	2.88	0.42
34:BA:145:G:H5''	34:BA:145:G:H8	1.85	0.42
34:BA:159:G:HO2'	34:BA:160:A:H8	1.63	0.42
34:BA:181:G:O2'	34:BA:182:U:P	2.77	0.42
34:BA:226:G:N2	34:BA:227:G:N3	2.66	0.42
34:BA:276:G:N1	34:BA:277:C:C6	2.87	0.42
34:BA:341:C:O2'	34:BA:342:C:H5'	2.20	0.42
34:BA:411:A:C8	34:BA:413:G:H1'	2.54	0.42
34:BA:440:A:O2'	34:BA:442:C:H5'	2.20	0.42
34:BA:459:G:C3'	34:BA:460:A:H5''	2.50	0.42
34:BA:463:A:C5	34:BA:474:G:N7	2.88	0.42
34:BA:519:C:C2'	34:BA:520:A:C5'	2.84	0.42
34:BA:550:G:C2	34:BA:551:U:C6	3.07	0.42
34:BA:572:A:H2	34:BA:916:G:H22	1.68	0.42
34:BA:598:U:H4'	43:BK:94:TYR:CG	2.54	0.42
34:BA:689:C:C2'	34:BA:690:G:O5'	2.68	0.42
34:BA:696:A:C2'	34:BA:697:U:O5'	2.68	0.42
34:BA:701:C:C2	34:BA:703:G:N1	2.87	0.42
34:BA:710:G:HO2'	34:BA:711:G:H5'	1.79	0.42
34:BA:718:G:C5	46:BN:116:HIS:NE2	2.88	0.42
34:BA:724:G:H21	34:BA:725:G:H1'	1.84	0.42
34:BA:727:G:C5'	34:BA:741:G:N2	2.82	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:815:A:H1'	34:BA:1529:G:O6	2.17	0.42
34:BA:877:C:OP1	43:BK:88:LYS:CD	2.68	0.42
34:BA:883:C:O2	34:BA:883:C:H2'	2.18	0.42
34:BA:909:A:H2'	34:BA:910:C:O4'	2.20	0.42
34:BA:938:A:H2'	34:BA:939:G:O5'	2.20	0.42
34:BA:948:C:H5'	34:BA:1306:A:O2'	2.19	0.42
34:BA:979:C:C6	34:BA:980:C:C5	3.07	0.42
34:BA:985:C:N4	34:BA:1220:G:N1	2.28	0.42
34:BA:1001:A:C2	34:BA:1040:U:N3	2.73	0.42
34:BA:1073:U:C2'	34:BA:1074:G:C8	2.86	0.42
34:BA:1102:A:N3	34:BA:1103:C:C6	2.88	0.42
34:BA:1115:C:C4	34:BA:1116:C:C5	3.07	0.42
34:BA:1249:C:O2	44:BL:70:LYS:NZ	2.42	0.42
34:BA:1352:C:C4	34:BA:1371:G:O6	2.72	0.42
34:BA:1391:U:O2'	34:BA:1392:G:O5'	2.38	0.42
34:BA:1497:G:C4	34:BA:1498:U:C5	3.07	0.42
34:BA:1531:A:C4	34:BA:1532:U:N3	2.87	0.42
35:BC:31:A:H5'	44:BL:127:LYS:O	2.19	0.42
35:BC:36:A:C6	36:B1:60:A:N1	2.87	0.42
36:B1:46:A:C8	36:B1:47:U:C4	3.08	0.42
37:BE:9:GLU:HB2	37:BE:217:ARG:CZ	2.48	0.42
37:BE:42:ILE:HD11	37:BE:202:PRO:O	2.20	0.42
37:BE:84:GLU:O	37:BE:88:ALA:N	2.46	0.42
37:BE:169:LYS:NZ	37:BE:170:GLU:OE1	2.45	0.42
38:BF:3:ASN:HB2	38:BF:4:LYS:H	1.54	0.42
38:BF:16:ARG:C	38:BF:17:ASP:CG	2.88	0.42
38:BF:73:PRO:CG	38:BF:74:GLY:N	2.82	0.42
39:BG:43:HIS:O	39:BG:46:LYS:HB2	2.20	0.42
39:BG:104:VAL:O	39:BG:107:ARG:N	2.52	0.42
39:BG:180:GLY:HA3	39:BG:182:LYS:HE2	2.01	0.42
40:BH:15:ARG:NH1	40:BH:15:ARG:CG	2.78	0.42
40:BH:79:GLU:CG	40:BH:92:LYS:HA	2.50	0.42
40:BH:110:LEU:O	40:BH:111:GLU:C	2.59	0.42
41:BI:24:GLU:HG3	41:BI:25:ILE:H	1.84	0.42
41:BI:67:MET:HA	41:BI:68:PRO:HD3	1.91	0.42
41:BI:86:ARG:HG2	41:BI:86:ARG:H	1.70	0.42
42:BJ:24:THR:O	42:BJ:28:ASN:HB2	2.20	0.42
42:BJ:72:ARG:HH11	42:BJ:72:ARG:CG	2.23	0.42
43:BK:17:THR:CG2	43:BK:78:GLN:OE1	2.68	0.42
43:BK:33:GLU:O	43:BK:34:GLU:C	2.62	0.42
43:BK:104:ARG:CG	43:BK:138:TRP:CE3	3.00	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BL:32:ASP:OD1	44:BL:32:ASP:C	2.63	0.42
44:BL:47:LEU:CD1	44:BL:50:LEU:HB3	2.49	0.42
44:BL:49:PRO:CD	44:BL:78:LYS:HD3	2.49	0.42
44:BL:55:ALA:CB	44:BL:58:ARG:HE	2.17	0.42
45:BM:4:ILE:HA	45:BM:100:THR:HA	2.02	0.42
45:BM:5:ARG:HG3	45:BM:6:ILE:N	2.34	0.42
45:BM:57:LYS:O	45:BM:58:ASP:CG	2.62	0.42
45:BM:60:ARG:HD3	45:BM:60:ARG:H	1.85	0.42
49:BQ:20:ALA:C	49:BQ:21:TYR:HD1	2.27	0.42
50:BR:70:LEU:HD11	50:BR:74:ASP:O	2.20	0.42
52:BT:29:HIS:CB	52:BT:32:TYR:H	2.32	0.42
52:BT:60:ILE:HG22	52:BT:72:ARG:O	2.19	0.42
52:BT:76:LEU:C	52:BT:76:LEU:CD2	2.92	0.42
52:BT:96:GLN:NE2	52:BT:97:SER:N	2.66	0.42
54:BV:17:GLU:O	54:BV:21:GLU:HG3	2.20	0.42
55:BW:54:LYS:HG2	55:BW:100:ILE:HD12	1.99	0.42
55:BW:59:ALA:O	55:BW:61:SER:N	2.53	0.42
1:AB:43:C:C5	1:AB:43:C:OP2	2.73	0.42
1:AB:73:A:C6	1:AB:104:A:C4	3.08	0.42
1:AB:88:C:H6	1:AB:88:C:C3'	2.27	0.42
2:AA:29:U:H4'	25:A1:11:ARG:CZ	2.47	0.42
2:AA:99:U:O2	2:AA:99:U:C2'	2.66	0.42
2:AA:123:G:N2	2:AA:128:C:N3	2.56	0.42
2:AA:181:A:H2	2:AA:434:U:O2'	1.92	0.42
2:AA:189:G:O6	2:AA:205:G:N9	2.53	0.42
2:AA:200:U:C2'	2:AA:201:C:H5'	2.50	0.42
2:AA:270(X):G:C2'	2:AA:270(Y):G:C5'	2.69	0.42
2:AA:359:A:O2'	2:AA:360:G:N9	2.52	0.42
2:AA:372:G:H8	2:AA:372:G:H3'	1.83	0.42
2:AA:387:U:O3'	28:A4:23:GLU:OE1	2.37	0.42
2:AA:418:G:C2	2:AA:419:C:C6	3.08	0.42
2:AA:449:A:H4'	2:AA:1248:G:H1	1.84	0.42
2:AA:464:U:O2	2:AA:465:G:C1'	2.67	0.42
2:AA:503:A:H5''	2:AA:504:U:OP1	2.18	0.42
2:AA:549:G:C2'	2:AA:550:G:O5'	2.68	0.42
2:AA:585:G:O2'	2:AA:586:A:N7	2.48	0.42
2:AA:600:G:C5'	6:AF:27:ARG:HH11	2.23	0.42
2:AA:607:U:H2'	2:AA:608:A:C8	2.55	0.42
2:AA:611:C:C6	2:AA:618:G:N1	2.83	0.42
2:AA:641:C:O2'	2:AA:642:G:C5'	2.66	0.42
2:AA:651:G:H8	2:AA:652:C:C6	2.38	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:658:C:N3	2:AA:659:C:C4	2.88	0.42
2:AA:660:G:C2	2:AA:661:C:C5	3.08	0.42
2:AA:706:A:H2'	2:AA:707:G:H5'	2.02	0.42
2:AA:772:C:H2'	2:AA:773:U:C5	2.55	0.42
2:AA:783:A:O2'	2:AA:784:A:C5'	2.68	0.42
2:AA:783:A:C8	2:AA:783:A:O5'	2.72	0.42
2:AA:851:U:O2	2:AA:929:G:N2	2.53	0.42
2:AA:1019:U:H1'	2:AA:1144:G:N2	2.35	0.42
2:AA:1246:A:N6	2:AA:1247:A:N1	2.61	0.42
2:AA:1269:A:C2'	2:AA:1325:G:O6	2.68	0.42
2:AA:1312:U:O2'	2:AA:1313:U:O5'	2.31	0.42
2:AA:1353:A:C2	2:AA:1354:A:C4	3.07	0.42
2:AA:1364:G:C5	28:A4:2:GLN:OE1	2.73	0.42
2:AA:1398:C:O2'	2:AA:1399:C:H5'	2.20	0.42
2:AA:1453:A:C6	24:A0:77:ARG:CD	3.03	0.42
2:AA:1523:U:C2'	2:AA:1524:G:C5'	2.97	0.42
2:AA:1569:A:H2'	2:AA:1570:A:C8	2.55	0.42
2:AA:1635:G:H2'	2:AA:1636:C:O4'	2.20	0.42
2:AA:1669:A:C4'	2:AA:2550:G:OP1	2.66	0.42
2:AA:1814:G:C2'	2:AA:1815:A:C8	3.02	0.42
2:AA:1899:G:N2	2:AA:1902:C:N4	2.59	0.42
2:AA:1925:C:C2	2:AA:1929:G:O6	2.70	0.42
2:AA:1935:G:N1	2:AA:1962:C:C6	2.88	0.42
2:AA:1948:G:N1	2:AA:1949:G:C6	2.87	0.42
2:AA:1997:G:C2	2:AA:1998:G:C5	3.07	0.42
2:AA:2004:G:N7	2:AA:2005:A:N7	2.67	0.42
2:AA:2019:A:O2'	2:AA:2020:A:C5'	2.68	0.42
2:AA:2029:G:N1	2:AA:2033:A:N7	2.66	0.42
2:AA:2072:G:O5'	2:AA:2072:G:H8	2.01	0.42
2:AA:2134:A:OP1	2:AA:2135:A:OP2	2.37	0.42
2:AA:2146:C:C6	2:AA:2147:G:N2	2.88	0.42
2:AA:2274:A:N6	2:AA:2276:G:N9	2.68	0.42
2:AA:2279:G:H2'	2:AA:2280:G:H8	1.85	0.42
2:AA:2301:C:N4	2:AA:2302:G:O6	2.53	0.42
2:AA:2335:A:C8	2:AA:2337:G:C6	3.08	0.42
2:AA:2344:U:C2'	2:AA:2345:G:OP2	2.67	0.42
2:AA:2370:G:N3	2:AA:2371:G:C8	2.87	0.42
2:AA:2783:G:C2'	2:AA:2784:C:O4'	2.63	0.42
2:AA:2819:G:O5'	2:AA:2819:G:H8	2.02	0.42
2:AA:2848:G:N2	2:AA:2849:U:O2	2.52	0.42
3:AC:19:ILE:HG23	3:AC:224:ILE:CA	2.50	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:211:SER:HB2	3:AC:213:TYR:CE1	2.55	0.42
5:AE:40:GLY:O	5:AE:41:PHE:CD2	2.72	0.42
5:AE:77:PRO:CB	5:AE:187:HIS:C	2.93	0.42
6:AF:219:ASN:O	6:AF:222:ASP:CB	2.58	0.42
7:AG:56:ARG:HE	7:AG:65:GLU:CB	2.28	0.42
9:AJ:61:VAL:HG12	9:AJ:102:ILE:HG22	2.01	0.42
9:AJ:66:PHE:CE2	9:AJ:73:VAL:CG1	3.02	0.42
9:AJ:71:ILE:CA	11:AL:61:TYR:HB2	2.49	0.42
10:AK:54:GLU:OE1	10:AK:54:GLU:CA	2.63	0.42
10:AK:65:ALA:O	10:AK:66:LYS:C	2.61	0.42
10:AK:88:ARG:NH2	10:AK:121:ILE:CG2	2.82	0.42
11:AL:63:ASP:O	11:AL:64:LYS:CB	2.67	0.42
14:AO:61:ALA:CB	14:AO:107:LYS:HE3	2.50	0.42
15:AP:133:GLU:O	15:AP:134:PHE:C	2.63	0.42
15:AP:140:TYR:CE1	15:AP:149:ILE:HA	2.54	0.42
16:AQ:22:GLN:OE1	16:AQ:22:GLN:N	2.52	0.42
16:AQ:41:LYS:HB3	16:AQ:42:HIS:NE2	2.34	0.42
16:AQ:104:ILE:CG2	16:AQ:106:LEU:O	2.63	0.42
20:AU:30:ASP:HB2	20:AU:34:GLU:OE2	2.19	0.42
20:AU:44:ALA:C	20:AU:65:VAL:CG2	2.93	0.42
20:AU:55:PHE:CE1	20:AU:89:ARG:HD3	2.55	0.42
21:AV:105:GLN:CB	21:AV:141:MET:HG2	2.34	0.42
21:AV:151:ASP:HB3	21:AV:153:LYS:HZ2	1.84	0.42
22:AW:3:LEU:C	22:AW:4:HIS:ND1	2.78	0.42
23:AX:16:PRO:CB	23:AX:19:GLN:OE1	2.68	0.42
24:A0:54:LEU:CD1	24:A0:54:LEU:H	2.27	0.42
24:A0:84:ALA:N	24:A0:85:PRO:CD	2.83	0.42
25:A1:59:ARG:HH11	25:A1:59:ARG:CG	2.32	0.42
25:A1:61:TRP:CH2	25:A1:93:LYS:HB3	2.54	0.42
25:A1:69:ALA:HB1	25:A1:79:PHE:CD1	2.53	0.42
26:A2:65:ARG:C	26:A2:93:ILE:HG13	2.44	0.42
27:A3:33:ALA:HB3	27:A3:66:LYS:N	2.35	0.42
34:BA:23:C:O2	34:BA:23:C:H2'	2.19	0.42
34:BA:28:G:N2	34:BA:556:C:C4	2.88	0.42
34:BA:110:C:C2'	34:BA:111:G:H8	2.33	0.42
34:BA:131:C:H2'	34:BA:132:C:O5'	2.20	0.42
34:BA:186:C:C2	34:BA:187:C:C5	3.08	0.42
34:BA:186:C:C2'	55:BW:85:MET:SD	3.07	0.42
34:BA:272:C:C2	34:BA:273:A:C8	3.07	0.42
34:BA:303:A:N7	34:BA:304:U:C5	2.87	0.42
34:BA:316:G:N7	34:BA:351:G:C2	2.88	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:371:G:N1	34:BA:390:C:N4	2.22	0.42
34:BA:428:G:O2'	34:BA:429:U:P	2.78	0.42
34:BA:499:A:C4'	34:BA:500:G:OP1	2.63	0.42
34:BA:509:A:C8	34:BA:509:A:H3'	2.55	0.42
34:BA:548:G:H2'	34:BA:549:C:H6	1.84	0.42
34:BA:551:U:C4'	47:BO:119:LYS:HE2	2.50	0.42
34:BA:571:U:C3'	34:BA:572:A:C5'	2.79	0.42
34:BA:582:U:O4'	52:BT:105:ALA:O	2.38	0.42
34:BA:595:G:C8	34:BA:641:U:C4	3.07	0.42
34:BA:598:U:C1'	43:BK:94:TYR:HD2	2.33	0.42
34:BA:599:C:O2'	43:BK:130:GLY:N	2.53	0.42
34:BA:643:C:O2'	43:BK:132:GLU:OE2	2.37	0.42
34:BA:688:G:C2'	34:BA:689:C:C5'	2.96	0.42
34:BA:790:A:H2'	34:BA:791:G:O4'	2.20	0.42
34:BA:881:G:O2'	34:BA:882:C:C5'	2.66	0.42
34:BA:881:G:C5	34:BA:882:C:C4	3.08	0.42
34:BA:1057:G:C1'	38:BF:195:VAL:HG12	2.49	0.42
34:BA:1099:G:C6	34:BA:1100:C:C2	3.07	0.42
34:BA:1125:U:H5''	34:BA:1126:U:C5	2.39	0.42
34:BA:1150:U:O2	34:BA:1151:A:C8	2.73	0.42
34:BA:1157:A:C1'	34:BA:1181:G:C2	3.03	0.42
34:BA:1240:U:C2'	42:BJ:32:ARG:HH21	2.33	0.42
34:BA:1331:G:O2'	34:BA:1332:A:O5'	2.38	0.42
34:BA:1391:U:HO2'	34:BA:1392:G:C5'	2.32	0.42
34:BA:1401:G:HO2'	34:BA:1402:C:H5'	1.84	0.42
34:BA:1428:A:C4	34:BA:1429:C:C5	3.07	0.42
34:BA:1436:U:C2	34:BA:1437:C:C6	3.07	0.42
34:BA:1463:C:H2'	34:BA:1464:G:H5'	2.02	0.42
35:BC:37:G:O6	35:BC:38:A:N6	2.53	0.42
35:BC:53:G:C5	35:BC:62:A:N6	2.88	0.42
37:BE:68:ILE:O	37:BE:90:MET:CG	2.68	0.42
37:BE:114:ARG:HD3	37:BE:114:ARG:O	2.20	0.42
37:BE:124:SER:C	37:BE:126:GLU:H	2.27	0.42
37:BE:236:TYR:HA	37:BE:240:GLN:NE2	2.35	0.42
38:BF:50:ALA:HB1	38:BF:72:LYS:O	2.19	0.42
38:BF:73:PRO:CD	38:BF:105:GLU:OE2	2.68	0.42
38:BF:120:VAL:HG11	38:BF:134:ILE:HG13	2.00	0.42
39:BG:4:TYR:HE2	39:BG:8:VAL:CG2	2.14	0.42
39:BG:121:VAL:O	39:BG:134:ASP:CA	2.65	0.42
39:BG:154:ASN:C	39:BG:155:LEU:HD23	2.44	0.42
40:BH:43:LEU:H	40:BH:65:ASN:ND2	2.17	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:92:LYS:CG	40:BH:93:PRO:HD2	2.49	0.42
40:BH:107:ARG:O	40:BH:109:ILE:N	2.53	0.42
42:BJ:50:ILE:CD1	42:BJ:58:PRO:CA	2.98	0.42
42:BJ:74:GLU:CG	42:BJ:75:VAL:H	2.25	0.42
43:BK:45:ILE:CG1	43:BK:47:GLY:N	2.81	0.42
43:BK:54:ASP:O	43:BK:56:LYS:HD2	2.19	0.42
44:BL:48:GLU:O	44:BL:51:ARG:CB	2.63	0.42
47:BO:58:VAL:HG12	47:BO:60:LEU:HD12	2.01	0.42
47:BO:83:VAL:CG2	47:BO:107:ALA:HB3	2.50	0.42
48:BP:32:GLU:HB3	48:BP:64:TRP:CZ3	2.47	0.42
49:BQ:23:ARG:HA	49:BQ:33:VAL:HG21	2.02	0.42
51:BS:27:LYS:C	51:BS:29:ASP:N	2.77	0.42
52:BT:24:GLU:CG	52:BT:38:ARG:O	2.65	0.42
55:BW:51:GLU:HG2	55:BW:52:ALA:H	1.84	0.42
1:AB:9:G:N1	1:AB:112:G:N7	2.68	0.42
1:AB:77:U:H5'	21:AV:80:HIS:ND1	2.34	0.42
2:AA:15:G:C2'	2:AA:16:G:C5'	2.91	0.42
2:AA:56:A:H3'	2:AA:57:C:H5	1.80	0.42
2:AA:137(A):G:C5'	2:AA:137(A):G:C2	2.91	0.42
2:AA:153:C:H1'	2:AA:175:G:C2	2.55	0.42
2:AA:190:A:C6	2:AA:191:A:N6	2.87	0.42
2:AA:244:A:N6	2:AA:245:G:N2	2.67	0.42
2:AA:270(E):G:C2	2:AA:270(F):U:C6	3.07	0.42
2:AA:290:G:N2	2:AA:350:U:C1'	2.82	0.42
2:AA:341:G:C2'	2:AA:342:G:O4'	2.49	0.42
2:AA:346:A:O2'	2:AA:347:A:C8	2.72	0.42
2:AA:372:G:O2'	28:A4:63:PHE:CZ	2.60	0.42
2:AA:387:U:P	28:A4:31:ILE:HD11	2.60	0.42
2:AA:440:G:OP1	20:AU:6:LYS:HD2	2.18	0.42
2:AA:489:G:N2	2:AA:491:G:C1'	2.77	0.42
2:AA:492:A:H2'	2:AA:493:G:C4'	2.49	0.42
2:AA:574:C:C2	2:AA:2055:C:C5	3.08	0.42
2:AA:605:C:O2'	2:AA:658:C:H4'	2.20	0.42
2:AA:613:U:H5'	2:AA:614:U:C6	2.55	0.42
2:AA:636:G:H4'	2:AA:638:G:O2'	2.19	0.42
2:AA:691:C:N3	2:AA:692:C:C5	2.88	0.42
2:AA:828:U:C2'	2:AA:829:A:O4'	2.67	0.42
2:AA:842:G:N1	2:AA:937:U:N3	2.68	0.42
2:AA:852:G:C6	2:AA:853:G:C6	3.08	0.42
2:AA:868:U:H3	2:AA:909:A:N6	2.14	0.42
2:AA:934:G:N3	2:AA:934:G:H2'	2.35	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:952:G:O6	2:AA:966:G:C6	2.72	0.42
2:AA:955:C:H2'	2:AA:956:G:C5'	2.49	0.42
2:AA:960:A:C2	2:AA:962:G:C1'	3.02	0.42
2:AA:1058:G:C4'	9:AI:2:THR:CA	2.83	0.42
2:AA:1193:G:N1	2:AA:1194:A:C4	2.88	0.42
2:AA:1254:A:N7	2:AA:1256:G:H1'	2.34	0.42
2:AA:1266:G:O6	18:AS:16:LYS:NZ	2.49	0.42
2:AA:1421:G:N3	2:AA:1422:G:C8	2.88	0.42
2:AA:1456:G:C8	2:AA:1456:G:O5'	2.73	0.42
2:AA:1465:G:C2	2:AA:1466:G:N9	2.87	0.42
2:AA:1466:G:C4	2:AA:1547:C:N4	2.88	0.42
2:AA:1491:G:C2'	2:AA:1492:G:OP2	2.68	0.42
2:AA:1535:U:H5'	2:AA:1536:A:O4'	2.17	0.42
2:AA:1569:A:C4	2:AA:1570:A:N7	2.88	0.42
2:AA:1572:A:O2'	2:AA:1573:G:P	2.78	0.42
2:AA:1689:A:N7	2:AA:1698:A:H2	2.17	0.42
2:AA:1764:G:C2	2:AA:1765:C:C2	3.07	0.42
2:AA:1789:A:N3	2:AA:1790:C:H1'	2.35	0.42
2:AA:2083:G:N2	2:AA:2084:C:C2	2.88	0.42
2:AA:2131:G:H3'	3:AC:6:ARG:CB	2.30	0.42
2:AA:2135:A:H2'	2:AA:2152:G:C8	2.51	0.42
2:AA:2329:G:C4	2:AA:2330:G:C8	3.07	0.42
2:AA:2329:G:H1	2:AA:2386:C:N4	2.15	0.42
2:AA:2399:G:H1'	30:A6:22:TYR:OH	2.19	0.42
2:AA:2448:A:H3'	2:AA:2449:U:H6	1.84	0.42
2:AA:2450:A:C2	2:AA:2451:A:N9	2.87	0.42
2:AA:2458:G:C8	2:AA:2490:G:N1	2.87	0.42
2:AA:2460:U:C4	2:AA:2461:C:C5	3.08	0.42
2:AA:2462:U:C2	2:AA:2463:C:C6	3.08	0.42
2:AA:2524:G:C2'	2:AA:2741:A:H2	2.32	0.42
2:AA:2638:G:H21	2:AA:2778:A:N6	2.11	0.42
2:AA:2695:C:O2	2:AA:2696:U:C4	2.72	0.42
2:AA:2765:A:N3	2:AA:2765:A:C2'	2.83	0.42
2:AA:2795:G:O5'	2:AA:2799:A:C2	2.72	0.42
2:AA:2831:G:C5'	2:AA:2834:G:O2'	2.68	0.42
2:AA:2836:U:C6	2:AA:2883:A:N6	2.88	0.42
3:AC:82:LYS:HA	3:AC:82:LYS:HD3	1.74	0.42
3:AC:89:ALA:CB	3:AC:150:GLY:HA2	2.50	0.42
3:AC:89:ALA:HB1	3:AC:154:ARG:NH1	2.35	0.42
3:AC:93:TYR:CE2	3:AC:110:PHE:HA	2.54	0.42
3:AC:146:GLY:O	3:AC:149:ILE:N	2.53	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:110:LYS:H	4:AD:110:LYS:HG2	1.60	0.42
4:AD:140:VAL:HA	4:AD:191:VAL:CA	2.44	0.42
5:AE:206:LYS:O	5:AE:208:LYS:N	2.53	0.42
6:AF:80:VAL:HA	6:AF:81:PRO:HD3	1.88	0.42
6:AF:84:VAL:HG21	6:AF:85:LYS:HZ1	1.85	0.42
6:AF:194:PHE:CD1	6:AF:211:ASP:O	2.73	0.42
7:AG:66:GLY:C	7:AG:67:ASP:OD1	2.62	0.42
7:AG:73:VAL:HG12	7:AG:75:LEU:HG	2.02	0.42
7:AG:152:PRO:C	7:AG:154:LYS:N	2.72	0.42
9:AI:49:ALA:O	9:AI:52:ALA:HB3	2.19	0.42
9:AI:80:ILE:CG2	9:AI:81:THR:N	2.82	0.42
9:AJ:118:LEU:O	9:AJ:119:GLU:C	2.63	0.42
12:AM:16:ASP:O	12:AM:17:CYS:O	2.38	0.42
12:AM:53:ILE:HG23	12:AM:54:VAL:N	2.32	0.42
13:AN:52:VAL:O	13:AN:53:LYS:CB	2.64	0.42
15:AP:17:ARG:H	15:AP:17:ARG:CD	2.32	0.42
15:AP:42:TYR:CB	21:AV:99:HIS:CE1	3.02	0.42
15:AP:67:ALA:CA	15:AP:70:ARG:NE	2.83	0.42
15:AP:123:ILE:HG22	15:AP:124:ALA:C	2.45	0.42
16:AQ:11:ARG:O	16:AQ:14:ARG:HD2	2.20	0.42
16:AQ:17:ARG:HH22	16:AQ:106:LEU:HD21	1.85	0.42
16:AQ:33:ARG:CB	16:AQ:35:VAL:CG2	2.95	0.42
18:AS:23:LEU:HD21	29:A5:27:ALA:H	1.85	0.42
18:AS:25:ARG:HG3	18:AS:26:GLY:H	1.81	0.42
18:AS:36:LEU:HD23	18:AS:36:LEU:HA	1.86	0.42
22:AW:60:GLN:O	22:AW:61:GLY:O	2.38	0.42
23:AX:26:LEU:HD21	23:AX:46:ASN:HD22	1.80	0.42
23:AX:49:LYS:C	23:AX:51:ALA:H	2.26	0.42
24:A0:79:LEU:CD2	24:A0:80:PHE:CD1	3.03	0.42
25:A1:114:ARG:HB2	25:A1:115:ASN:ND2	2.34	0.42
26:A2:7:THR:O	26:A2:7:THR:OG1	2.37	0.42
26:A2:15:SER:CB	26:A2:99:GLN:OE1	2.67	0.42
26:A2:20:ILE:HG23	26:A2:94:LYS:CG	2.48	0.42
26:A2:62:GLU:O	26:A2:95:ILE:CG2	2.68	0.42
28:A4:7:PRO:HB2	28:A4:60:ASN:HB3	2.00	0.42
31:A7:14:LYS:O	31:A7:15:THR:C	2.63	0.42
31:A7:33:ARG:CA	31:A7:37:LYS:HD2	2.49	0.42
33:A9:7:VAL:O	33:A9:8:LYS:CE	2.68	0.42
34:BA:43:C:N3	34:BA:44:G:N7	2.67	0.42
34:BA:45:U:O2	34:BA:398:C:N3	2.52	0.42
34:BA:149:A:C2	34:BA:150:C:N3	2.88	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:292:G:C8	34:BA:293:G:C8	3.08	0.42
34:BA:295:C:H2'	34:BA:296:U:O5'	2.19	0.42
34:BA:302:G:N2	34:BA:556:C:H4'	2.33	0.42
34:BA:371:G:C2	34:BA:372:C:C5	3.07	0.42
34:BA:408:A:N6	34:BA:435:C:H42	2.17	0.42
34:BA:499:A:N9	34:BA:547:A:C6	2.88	0.42
34:BA:567:G:N2	34:BA:568:G:H1'	2.34	0.42
34:BA:647:C:C2	34:BA:648:A:C8	3.07	0.42
34:BA:673:G:C6	34:BA:734:G:C5	3.08	0.42
34:BA:687:A:C2	34:BA:704:A:C6	3.08	0.42
34:BA:692:U:O2	34:BA:694:A:C5	2.73	0.42
34:BA:715:A:H5'	34:BA:777:A:H62	1.83	0.42
34:BA:948:C:OP1	48:BP:109:THR:CG2	2.68	0.42
34:BA:990:C:C2'	34:BA:991:U:O4'	2.68	0.42
34:BA:1060:C:O2'	34:BA:1061:G:H5'	2.19	0.42
34:BA:1196:U:C3'	34:BA:1196:U:H6	2.32	0.42
34:BA:1203:C:C2'	34:BA:1204:A:O4'	2.65	0.42
34:BA:1298:C:C1'	42:BJ:114:ARG:NH1	2.83	0.42
34:BA:1399:C:N4	34:BA:1502:A:C5	2.87	0.42
34:BA:1427:U:C2	34:BA:1474:G:N2	2.88	0.42
34:BA:1450:U:C1'	34:BA:1454:G:N2	2.79	0.42
34:BA:1465:C:N3	34:BA:1466:C:C5	2.88	0.42
35:BB:2:C:H2'	35:BB:3:G:C5'	2.50	0.42
35:BC:40:C:O2	35:BC:41:U:H5''	2.19	0.42
35:BC:46:G:OP2	35:BC:46:G:C8	2.60	0.42
36:B1:69:A:O2'	36:B1:70:U:C5	2.72	0.42
37:BE:19:HIS:CD2	37:BE:20:GLU:CG	3.02	0.42
37:BE:42:ILE:CD1	37:BE:202:PRO:O	2.67	0.42
37:BE:63:MET:HG2	37:BE:64:ARG:N	2.35	0.42
37:BE:68:ILE:HB	37:BE:90:MET:HG3	2.01	0.42
37:BE:95:GLN:OE1	37:BE:95:GLN:HA	2.19	0.42
37:BE:97:TRP:CE3	37:BE:172:ILE:HB	2.47	0.42
37:BE:131:PRO:C	37:BE:133:LYS:N	2.76	0.42
37:BE:155:LEU:CG	37:BE:159:PRO:HG3	2.48	0.42
37:BE:155:LEU:HG	37:BE:159:PRO:HG3	2.01	0.42
38:BF:12:LEU:CD2	38:BF:16:ARG:O	2.67	0.42
38:BF:76:VAL:CG1	38:BF:103:VAL:HG11	2.39	0.42
38:BF:88:ARG:HH21	38:BF:100:ALA:CA	2.33	0.42
38:BF:172:ARG:NH1	38:BF:203:PHE:CE2	2.87	0.42
39:BG:64:LEU:CD1	39:BG:65:ARG:N	2.82	0.42
39:BG:93:PHE:C	39:BG:95:GLY:N	2.75	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:117:ASP:C	40:BH:118:ILE:CG1	2.92	0.42
41:BI:15:ASP:N	41:BI:18:GLN:HE21	2.18	0.42
42:BJ:64:GLN:HG2	42:BJ:128:ALA:HB1	1.99	0.42
42:BJ:69:VAL:HG12	42:BJ:100:ALA:CB	2.49	0.42
42:BJ:89:MET:O	42:BJ:90:GLU:O	2.38	0.42
42:BJ:118:VAL:O	42:BJ:119:ARG:C	2.61	0.42
43:BK:104:ARG:CZ	43:BK:138:TRP:CH2	3.02	0.42
45:BM:24:VAL:CB	45:BM:34:VAL:HG11	2.49	0.42
45:BM:65:LEU:CD1	49:BQ:36:PHE:HZ	2.31	0.42
46:BN:108:ILE:CG2	46:BN:109:VAL:N	2.82	0.42
47:BO:54:LYS:N	47:BO:54:LYS:HD2	2.34	0.42
49:BQ:25:VAL:HG12	49:BQ:38:GLY:O	2.20	0.42
51:BS:21:VAL:CG2	51:BS:36:ILE:HD13	2.33	0.42
55:BW:34:LYS:O	55:BW:36:LEU:N	2.52	0.42
1:AB:74:U:C3'	1:AB:75:G:H8	2.32	0.42
2:AA:81:G:N2	2:AA:106:C:C5	2.88	0.42
2:AA:121:G:O2'	2:AA:122:G:C5'	2.68	0.42
2:AA:137(A):G:C5'	2:AA:137(A):G:H21	2.33	0.42
2:AA:171:G:H3'	2:AA:171:G:C8	2.55	0.42
2:AA:279:C:C6	2:AA:279:C:H3'	2.55	0.42
2:AA:297:C:C2'	2:AA:298:G:H5'	2.50	0.42
2:AA:310:A:C5	2:AA:312:G:C4	3.07	0.42
2:AA:311:A:C8	2:AA:332:A:C6	3.08	0.42
2:AA:339:U:H2'	2:AA:340:A:N7	2.28	0.42
2:AA:388:G:P	28:A4:29:PRO:HG3	2.60	0.42
2:AA:405:U:H5''	2:AA:406:G:O5'	2.20	0.42
2:AA:530:G:C4	2:AA:2021:C:C4	3.08	0.42
2:AA:595:C:N3	2:AA:663:G:O6	2.52	0.42
2:AA:610:C:O2'	2:AA:611:C:H5'	2.19	0.42
2:AA:716:A:H8	2:AA:716:A:O5'	2.03	0.42
2:AA:740:U:O2	2:AA:1981:A:N9	2.53	0.42
2:AA:752:A:O2'	2:AA:753:C:C5	2.72	0.42
2:AA:853:G:O2'	2:AA:854:G:C4'	2.67	0.42
2:AA:867:C:OP1	2:AA:868:U:OP2	2.37	0.42
2:AA:879:G:N2	2:AA:880:G:N9	2.68	0.42
2:AA:885:C:H5''	2:AA:887:A:N1	2.34	0.42
2:AA:934:G:N2	2:AA:935:C:C2	2.88	0.42
2:AA:993:G:N2	25:A1:54:LYS:NZ	2.68	0.42
2:AA:1152:C:H5''	25:A1:80:ILE:HG21	1.99	0.42
2:AA:1155:A:H8	2:AA:1155:A:C5'	2.29	0.42
2:AA:1166:C:N4	2:AA:1184:G:O6	2.53	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1186:G:H2'	2:AA:1187:G:C8	2.51	0.42
2:AA:1247:A:C2'	2:AA:1248:G:O5'	2.68	0.42
2:AA:1300:U:O2	2:AA:1626:G:C2	2.72	0.42
2:AA:1309:G:P	31:A7:9:ASN:ND2	2.70	0.42
2:AA:1344:G:C2	2:AA:1404:C:C2	3.08	0.42
2:AA:1364:G:O5'	28:A4:3:LYS:HG2	2.20	0.42
2:AA:1440:G:H2'	2:AA:1441:G:O4'	2.20	0.42
2:AA:1444:G:C2'	2:AA:444(A):A:OP1	2.68	0.42
2:AA:1484:G:C2	2:AA:1506:C:C4	3.07	0.42
2:AA:1492:G:N3	2:AA:1493:C:C5	2.87	0.42
2:AA:1500:G:O2'	4:AD:98:GLY:CA	2.68	0.42
2:AA:1529:A:C5'	2:AA:1530:G:C8	3.02	0.42
2:AA:1543:A:H3'	2:AA:1544:C:C5	2.48	0.42
2:AA:1608:A:O2'	2:AA:1609:A:C5'	2.67	0.42
2:AA:1672:C:H5	2:AA:1673:U:C5	2.37	0.42
2:AA:1685:C:O2	2:AA:1704:G:C2	2.73	0.42
2:AA:1882:C:O5'	2:AA:1883:G:OP2	2.36	0.42
2:AA:1907:G:N1	2:AA:1908:C:C4	2.88	0.42
2:AA:1913:A:H2'	2:AA:1916:A:N6	2.35	0.42
2:AA:1913:A:N6	2:AA:1916:A:C3'	2.82	0.42
2:AA:1961:C:H2'	2:AA:1962:C:C5'	2.50	0.42
2:AA:2059:A:C2	2:AA:2503:A:C5	3.08	0.42
2:AA:2106:G:N1	2:AA:2184:G:C6	2.87	0.42
2:AA:2124:G:N7	3:AC:129:ARG:HG2	2.35	0.42
2:AA:2199:A:N7	2:AA:2205:C:C5	2.88	0.42
2:AA:2239:G:C2'	2:AA:2240:C:O4'	2.61	0.42
2:AA:2287:A:C5	2:AA:2289:G:C5	3.08	0.42
2:AA:2315:G:C2'	2:AA:2316:C:O5'	2.68	0.42
2:AA:2330:G:N2	2:AA:2385:C:C4	2.84	0.42
2:AA:2406:U:O2	14:AO:56:LYS:HG2	2.20	0.42
2:AA:2436:G:O6	2:AA:2437:U:O4	2.37	0.42
2:AA:2509:G:H21	2:AA:2510:C:H1'	1.78	0.42
2:AA:2525:G:N2	2:AA:2539:C:C2	2.88	0.42
2:AA:2549:G:C4	2:AA:2550:G:C8	3.08	0.42
2:AA:2631:G:N2	2:AA:2810:A:H1'	2.35	0.42
2:AA:2649:U:N3	2:AA:2672:G:C2	2.88	0.42
2:AA:2652:C:N3	2:AA:2669:G:C2	2.88	0.42
2:AA:2678:C:C2'	2:AA:2679:A:H5'	2.50	0.42
2:AA:2687:U:O2	2:AA:2687:U:C2'	2.61	0.42
2:AA:2887:U:H2'	2:AA:2888:C:C6	2.52	0.42
3:AC:56:GLN:NE2	3:AC:203:GLY:O	2.52	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:59:ARG:NE	3:AC:139:ASN:ND2	2.67	0.42
3:AC:132:GLY:N	3:AC:133:PRO:CD	2.83	0.42
4:AD:81:GLU:HG3	4:AD:92:LEU:HD11	2.00	0.42
4:AD:161:ALA:CB	4:AD:173:VAL:HG12	2.34	0.42
4:AD:227:VAL:HG22	4:AD:227:VAL:O	2.19	0.42
5:AE:256:THR:HG22	5:AE:259:HIS:CE1	2.55	0.42
6:AF:115:LEU:HD13	6:AF:118:THR:CG2	2.49	0.42
6:AF:115:LEU:O	6:AF:118:THR:OG1	2.22	0.42
6:AF:141:SER:HG	6:AF:144:PHE:HE1	1.66	0.42
7:AG:28:GLY:O	7:AG:29:HIS:C	2.61	0.42
8:AH:7:PRO:O	8:AH:8:ILE:HG13	2.19	0.42
9:AI:103:LYS:HB2	9:AI:114:ILE:HG21	2.02	0.42
9:AJ:40:ALA:O	9:AJ:43:PRO:CD	2.65	0.42
9:AJ:49:ALA:O	9:AJ:52:ALA:HB3	2.19	0.42
9:AJ:63:LEU:HD21	9:AJ:118:LEU:HB3	2.02	0.42
10:AK:78:THR:HG22	10:AK:144:HIS:NE2	2.34	0.42
10:AK:95:SER:OG	10:AK:115:ILE:CD1	2.64	0.42
10:AK:95:SER:C	10:AK:98:ILE:N	2.77	0.42
10:AK:124:LEU:HD21	10:AK:146:THR:C	2.45	0.42
11:AL:65:SER:C	11:AL:66:PHE:HD1	2.28	0.42
11:AL:93:LYS:CD	21:AV:108:VAL:HG12	2.50	0.42
12:AM:6:PHE:HE1	12:AM:109:TYR:CZ	2.36	0.42
12:AM:15:ARG:CB	12:AM:43:ARG:HD2	2.49	0.42
13:AN:63:VAL:CG2	13:AN:85:VAL:HG23	2.32	0.42
14:AO:64:ILE:CB	14:AO:107:LYS:O	2.65	0.42
15:AP:17:ARG:O	15:AP:22:GLY:C	2.63	0.42
15:AP:71:PHE:O	15:AP:138:ARG:NH1	2.52	0.42
15:AP:85:ILE:HA	15:AP:122:PHE:HB3	2.02	0.42
15:AP:132:VAL:O	15:AP:135:ALA:N	2.52	0.42
18:AS:50:VAL:HG12	18:AS:105:VAL:CG2	2.50	0.42
19:AT:5:ILE:CG1	19:AT:40:ALA:CB	2.94	0.42
20:AU:22:GLN:O	20:AU:24:ARG:N	2.53	0.42
20:AU:30:ASP:C	20:AU:34:GLU:HG3	2.43	0.42
20:AU:77:VAL:CA	20:AU:89:ARG:NH1	2.65	0.42
20:AU:105:ASP:O	20:AU:108:ARG:HB2	2.19	0.42
21:AV:56:VAL:HG12	21:AV:56:VAL:O	2.20	0.42
21:AV:79:ILE:CG2	21:AV:80:HIS:CE1	3.02	0.42
21:AV:138:VAL:HB	21:AV:140:LYS:NZ	2.33	0.42
22:AW:56:ILE:O	22:AW:57:LYS:C	2.63	0.42
24:A0:49:ASP:O	24:A0:52:ILE:CB	2.67	0.42
25:A1:28:ARG:HB3	25:A1:38:THR:HG21	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A2:5:ILE:O	26:A2:6:GLN:HG2	2.19	0.42
27:A3:46:LYS:HG2	27:A3:58:THR:HG23	2.01	0.42
27:A3:74:LYS:O	27:A3:75:GLY:C	2.62	0.42
28:A4:49:PHE:HZ	28:A4:70:GLY:O	2.01	0.42
28:A4:59:PHE:N	28:A4:59:PHE:CD1	2.76	0.42
29:A5:15:LYS:HA	29:A5:18:MET:HG3	1.92	0.42
29:A5:50:GLY:HA3	29:A5:57:VAL:HB	2.00	0.42
34:BA:14:U:H3	34:BA:16:A:H3'	1.85	0.42
34:BA:16:A:N6	34:BA:920:U:N3	2.68	0.42
34:BA:46:G:OP1	34:BA:307:C:O4'	2.37	0.42
34:BA:197:A:C6	34:BA:221:C:H5'	2.55	0.42
34:BA:255:G:H5'	52:BT:16:GLN:O	2.20	0.42
34:BA:270:A:N6	34:BA:271:C:N4	2.68	0.42
34:BA:330:C:H2'	34:BA:331:G:C8	2.53	0.42
34:BA:422:C:OP2	34:BA:422:C:C6	2.72	0.42
34:BA:436:C:O2'	39:BG:157:LEU:HD11	2.20	0.42
34:BA:463:A:H1'	51:BS:82:GLN:HG2	2.01	0.42
34:BA:490:G:H8	34:BA:490:G:O5'	2.02	0.42
34:BA:502:G:C2	34:BA:503:C:C2	3.07	0.42
34:BA:545:C:OP1	39:BG:72:GLU:HG2	2.20	0.42
34:BA:587:G:C2	34:BA:755:G:C4	3.08	0.42
34:BA:690:G:C6	34:BA:691:G:C4	3.08	0.42
34:BA:696:A:N3	34:BA:697:U:C6	2.88	0.42
34:BA:730:G:N2	34:BA:765:G:C5'	2.83	0.42
34:BA:748:C:O2	34:BA:749:C:H5	2.03	0.42
34:BA:768:A:N6	34:BA:769:G:C5	2.87	0.42
34:BA:784:C:N3	34:BA:785:G:C8	2.87	0.42
34:BA:874:G:N2	34:BA:875:C:N1	2.67	0.42
34:BA:878:G:OP1	43:BK:88:LYS:CB	2.68	0.42
34:BA:920:U:O2'	34:BA:921:U:H5'	2.20	0.42
34:BA:930:C:C2'	34:BA:931:C:O5'	2.68	0.42
34:BA:954:G:N2	34:BA:1228:C:C4	2.87	0.42
34:BA:1003:G:N3	34:BA:1003:G:C2'	2.83	0.42
34:BA:3(A):G:C6	34:BA:1004:A:H1'	2.54	0.42
34:BA:1005:A:H5'	34:BA:1037:C:H1'	2.01	0.42
34:BA:1089:G:C2	34:BA:1097:C:C2	3.08	0.42
34:BA:1089:G:C5	34:BA:1090:U:C5	3.08	0.42
34:BA:1128:C:N4	34:BA:1143:G:N1	2.67	0.42
34:BA:1227:A:O2'	48:BP:115:LYS:HD3	2.19	0.42
34:BA:1229:A:O2'	34:BA:1230:C:O4'	2.38	0.42
34:BA:1252:A:C6	34:BA:1253:G:C8	3.07	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1275:A:N3	34:BA:1275:A:H2'	2.35	0.42
34:BA:1394:A:C5	34:BA:1501:C:O4'	2.73	0.42
34:BA:1476:G:H2'	34:BA:1477:C:C6	2.54	0.42
34:BA:1479:C:H2'	34:BA:1480:G:O4'	2.19	0.42
34:BA:1507:A:H2'	34:BA:1508:G:O4'	2.18	0.42
34:BA:1507:A:C2	34:BA:1530:G:C1'	3.02	0.42
34:BA:1509:C:O2'	34:BA:1510:U:H5'	2.20	0.42
35:BC:75:C:H3'	35:BC:75:C:H6	1.84	0.42
36:B1:59:A:O4'	36:B1:59:A:OP1	2.38	0.42
37:BE:162:ILE:HD11	37:BE:177:ALA:HB1	2.00	0.42
37:BE:216:SER:O	37:BE:217:ARG:C	2.62	0.42
38:BF:29:TYR:O	38:BF:29:TYR:HD2	2.03	0.42
38:BF:49:SER:O	38:BF:51:GLY:N	2.53	0.42
38:BF:130:VAL:C	38:BF:133:ALA:HB3	2.42	0.42
38:BF:153:VAL:HB	38:BF:166:GLU:CB	2.29	0.42
39:BG:19:LEU:HA	39:BG:19:LEU:HD23	1.83	0.42
40:BH:57:LYS:CG	40:BH:61:TYR:CE2	2.91	0.42
41:BI:57:GLN:N	41:BI:57:GLN:NE2	2.67	0.42
41:BI:67:MET:CE	41:BI:69:GLU:O	2.50	0.42
41:BI:94:GLN:N	41:BI:94:GLN:CD	2.78	0.42
43:BK:96:GLY:O	43:BK:97:VAL:C	2.62	0.42
43:BK:122:ARG:CD	43:BK:122:ARG:H	2.29	0.42
44:BL:62:TYR:O	44:BL:63:ILE:HG13	2.19	0.42
46:BN:11:LYS:CA	46:BN:13:GLN:HE21	2.33	0.42
46:BN:84:VAL:CG2	46:BN:109:VAL:O	2.67	0.42
47:BO:27:LEU:HD22	47:BO:62:SER:HB3	2.00	0.42
47:BO:61:THR:C	47:BO:62:SER:OG	2.63	0.42
48:BP:45:VAL:O	48:BP:47:ASP:N	2.53	0.42
48:BP:55:ARG:HE	48:BP:55:ARG:HB2	1.55	0.42
50:BR:42:HIS:O	50:BR:43:LEU:C	2.63	0.42
50:BR:42:HIS:CG	50:BR:43:LEU:N	2.78	0.42
50:BR:57:LEU:C	50:BR:59:MET:N	2.76	0.42
51:BS:26:ARG:O	51:BS:27:LYS:C	2.62	0.42
51:BS:58:TYR:CD1	51:BS:59:TRP:CA	2.93	0.42
52:BT:10:VAL:HB	52:BT:53:LEU:C	2.43	0.42
53:BU:17:SER:OG	53:BU:55:ARG:HD2	2.20	0.42
53:BU:28:GLU:O	53:BU:28:GLU:OE1	2.38	0.42
54:BV:15:LEU:H	54:BV:15:LEU:CD2	2.12	0.42
55:BW:22:ARG:O	55:BW:25:ARG:N	2.53	0.42
55:BW:89:ARG:HH11	55:BW:89:ARG:HD3	1.74	0.42
1:AB:48:A:H2'	1:AB:49:C:C5	2.55	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:59:A:C5'	7:AG:144:ARG:NE	2.83	0.42
1:AB:62:C:C2	1:AB:63:G:N7	2.88	0.42
1:AB:71:C:C2	1:AB:72:G:N9	2.87	0.42
1:AB:73:A:C2	1:AB:74:U:C6	3.08	0.42
2:AA:18:C:H4'	25:A1:24:PHE:O	2.20	0.42
2:AA:115:C:C2'	2:AA:116:C:O5'	2.68	0.42
2:AA:140:A:H2'	2:AA:141:A:OP1	2.20	0.42
2:AA:143:C:C6	2:AA:143:C:P	3.13	0.42
2:AA:270(D):C:C2	2:AA:270(E):G:N7	2.88	0.42
2:AA:270(J):G:C6	2:AA:270(P):C:N3	2.84	0.42
2:AA:270(V):G:OP2	2:AA:270(V):G:H8	2.02	0.42
2:AA:271(C):U:O5'	2:AA:271(C):U:C6	2.73	0.42
2:AA:271:G:C2'	2:AA:272:G:H8	2.16	0.42
2:AA:297:C:N4	2:AA:342:G:N1	2.67	0.42
2:AA:325:G:C2	2:AA:326:G:C4	3.08	0.42
2:AA:360:G:O2'	2:AA:361:G:C4'	2.67	0.42
2:AA:364:C:OP2	2:AA:364:C:H6	2.03	0.42
2:AA:373:U:C2'	2:AA:374:A:OP2	2.67	0.42
2:AA:566:U:C2'	2:AA:567:A:H8	2.32	0.42
2:AA:576:U:C2	2:AA:577:G:C8	3.08	0.42
2:AA:596:G:C6	2:AA:597:U:C2	3.08	0.42
2:AA:612:G:O3'	2:AA:615:G:C2'	2.68	0.42
2:AA:613:U:O5'	2:AA:615:G:C8	2.73	0.42
2:AA:617:G:OP1	6:AF:219:ASN:ND2	2.53	0.42
2:AA:711:G:H2'	2:AA:712:G:O5'	2.20	0.42
2:AA:756:C:H2'	2:AA:757:U:H5'	2.02	0.42
2:AA:764:A:OP1	4:AD:212:HIS:NE2	2.53	0.42
2:AA:797:C:H6	2:AA:797:C:O5'	2.02	0.42
2:AA:816:C:N3	2:AA:1191:G:O6	2.53	0.42
2:AA:852:G:C6	2:AA:853:G:C5	3.08	0.42
2:AA:874:G:N2	2:AA:875:G:C4	2.88	0.42
2:AA:958:U:O2'	2:AA:959:A:C5'	2.68	0.42
2:AA:1094:U:N3	2:AA:1096:A:H5''	2.35	0.42
2:AA:1179:C:HO2'	2:AA:1180:C:C5'	2.26	0.42
2:AA:1191:G:H2'	2:AA:1192:G:C8	2.47	0.42
2:AA:1210:A:H5'	2:AA:1211:U:C3'	2.42	0.42
2:AA:1233:C:C2	2:AA:1234:U:H6	2.38	0.42
2:AA:1331:A:H2'	2:AA:1333:C:H5	1.85	0.42
2:AA:1416:G:N2	2:AA:1582:C:N4	2.63	0.42
2:AA:1439:A:H2'	2:AA:1440:G:C4'	2.47	0.42
2:AA:1444:G:C8	2:AA:1445:C:N4	2.88	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1570:A:C4	2:AA:1571:A:N7	2.88	0.42
2:AA:1578:U:H2'	2:AA:1578:U:O2	2.20	0.42
2:AA:1792:G:C8	2:AA:1792:G:C3'	3.02	0.42
2:AA:1815:A:O2'	2:AA:1816:G:P	2.75	0.42
2:AA:1922:G:C8	2:AA:1922:G:H3'	2.54	0.42
2:AA:1943:U:C2'	2:AA:1944:U:OP2	2.68	0.42
2:AA:2000:G:C6	2:AA:2001:A:N6	2.88	0.42
2:AA:2009:G:C2'	2:AA:2010:G:O5'	2.68	0.42
2:AA:2076:U:H3'	2:AA:2076:U:H6	1.84	0.42
2:AA:2078:C:H1'	2:AA:2434:A:N3	2.35	0.42
2:AA:2099:U:H2'	2:AA:2100:G:O5'	2.20	0.42
2:AA:2103:C:O2'	2:AA:2104:G:C5'	2.62	0.42
2:AA:2238:G:H4'	2:AA:2240:C:H5	1.85	0.42
2:AA:2282:G:H5''	2:AA:2283:C:O5'	2.20	0.42
2:AA:2284:C:C4	2:AA:2285:C:C4	3.08	0.42
2:AA:2298:A:C2'	2:AA:2299:G:H5'	2.50	0.42
2:AA:2361:A:C4	2:AA:2362:G:C8	3.07	0.42
2:AA:2463:C:N3	2:AA:2487:G:C6	2.85	0.42
2:AA:2467:C:C5	2:AA:2468:G:C6	3.08	0.42
2:AA:2492:U:C2	2:AA:2493:U:C5	3.07	0.42
2:AA:2495:G:O2'	15:AP:101:MET:CG	2.68	0.42
2:AA:2529:G:O5'	2:AA:2530:A:H5''	2.20	0.42
2:AA:2578:G:C2	2:AA:2579:C:C6	3.08	0.42
2:AA:2583:G:N3	2:AA:2584:U:O2	2.53	0.42
2:AA:2619:C:O2	2:AA:2620:C:C6	2.73	0.42
2:AA:2625:G:H3'	2:AA:2626:C:C6	2.54	0.42
2:AA:2688:U:C5	2:AA:2720:U:OP2	2.72	0.42
2:AA:2718:G:C2	2:AA:2719:G:C4	3.08	0.42
2:AA:2740:A:H61	2:AA:2764:A:H1'	1.85	0.42
2:AA:2754:U:C2	2:AA:2756:U:OP1	2.73	0.42
2:AA:2763:G:H8	2:AA:2763:G:O5'	2.02	0.42
2:AA:2881:C:O2'	24:A0:96:ARG:HA	2.20	0.42
3:AC:10:LEU:HG	3:AC:32:LEU:CD2	2.44	0.42
3:AC:53:ARG:C	3:AC:55:ASP:H	2.27	0.42
3:AC:96:GLY:O	3:AC:97:GLU:C	2.62	0.42
4:AD:63:ILE:HD12	4:AD:63:ILE:HG23	1.68	0.42
4:AD:66:PHE:HB3	4:AD:67:LYS:HZ2	1.85	0.42
4:AD:104:ILE:O	4:AD:104:ILE:CD1	2.66	0.42
4:AD:107:LYS:HB3	4:AD:193:GLU:OE1	2.19	0.42
4:AD:130:PRO:HA	4:AD:188:ARG:HA	2.00	0.42
4:AD:191:VAL:HB	4:AD:192:GLY:H	1.66	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:80:ALA:HB2	5:AE:185:GLY:O	2.20	0.42
6:AF:87:ARG:NH1	6:AF:87:ARG:CG	2.78	0.42
7:AG:41:LEU:O	7:AG:42:GLY:C	2.63	0.42
7:AG:151:ILE:HD13	7:AG:156:ARG:NH1	2.34	0.42
8:AH:43:THR:CG2	8:AH:52:THR:HG23	2.49	0.42
9:AI:1:MET:CE	11:AL:10:LYS:NZ	2.70	0.42
10:AK:78:THR:OG1	10:AK:106:HIS:HE1	2.02	0.42
11:AL:72:THR:HG23	11:AL:115:ASP:CB	2.50	0.42
11:AL:100:VAL:HG12	11:AL:104:GLN:OE1	2.19	0.42
11:AL:140:VAL:O	11:AL:140:VAL:HG12	2.19	0.42
13:AN:19:VAL:CG1	13:AN:20:LEU:N	2.83	0.42
13:AN:90:ASP:O	13:AN:91:LYS:C	2.60	0.42
14:AO:55:GLN:NE2	14:AO:56:LYS:HB3	2.34	0.42
14:AO:117:GLU:C	14:AO:118:LEU:HG	2.45	0.42
15:AP:48:ASN:OD1	15:AP:121:ASP:OD1	2.37	0.42
15:AP:133:GLU:OE1	15:AP:133:GLU:O	2.37	0.42
18:AS:6:ILE:CG1	18:AS:104:THR:CG2	2.96	0.42
18:AS:76:VAL:HG23	18:AS:103:ILE:HA	2.02	0.42
19:AT:6:LYS:CE	19:AT:29:ASP:HA	2.50	0.42
20:AU:18:GLU:CA	20:AU:21:LYS:HD3	2.49	0.42
20:AU:19:ARG:HA	20:AU:22:GLN:HE21	1.81	0.42
21:AV:19:ILE:HG13	21:AV:79:ILE:CA	2.43	0.42
21:AV:37:LYS:O	21:AV:40:ASP:CB	2.67	0.42
21:AV:116:VAL:CG2	21:AV:169:VAL:HG22	2.50	0.42
23:AX:20:LYS:O	23:AX:23:LEU:HG	2.20	0.42
23:AX:33:GLN:CD	23:AX:34:GLU:O	2.63	0.42
23:AX:37:LEU:HA	23:AX:37:LEU:HD23	1.44	0.42
24:A0:25:ALA:CB	24:A0:48:VAL:HG22	2.50	0.42
24:A0:56:LYS:C	24:A0:58:GLY:N	2.78	0.42
25:A1:45:TYR:O	25:A1:46:GLU:C	2.62	0.42
25:A1:55:ARG:C	25:A1:57:PHE:N	2.72	0.42
26:A2:3:ALA:N	26:A2:44:GLN:OE1	2.52	0.42
26:A2:74:TYR:OH	26:A2:88:GLN:CA	2.58	0.42
27:A3:39:ARG:O	27:A3:39:ARG:CG	2.65	0.42
27:A3:45:PHE:CE1	27:A3:78:PHE:HD2	2.38	0.42
30:A6:8:ILE:H	30:A6:8:ILE:HG12	1.66	0.42
30:A6:46:LYS:HE2	30:A6:46:LYS:CA	2.45	0.42
30:A6:54:LYS:NZ	30:A6:54:LYS:CA	2.76	0.42
31:A7:21:ARG:CZ	31:A7:43:THR:CB	2.98	0.42
32:A8:17:THR:C	32:A8:19:THR:N	2.78	0.42
34:BA:8:A:C8	34:BA:8:A:OP2	2.73	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:32:A:H2'	34:BA:33:A:H8	1.82	0.42
34:BA:158:G:C2	34:BA:164:U:O2	2.73	0.42
34:BA:233:C:C4	34:BA:234:C:C5	3.07	0.42
34:BA:307:C:H3'	34:BA:307:C:C2	2.54	0.42
34:BA:371:G:C3'	34:BA:372:C:H5'	2.49	0.42
34:BA:372:C:C4	34:BA:389:A:N6	2.76	0.42
34:BA:373:A:C8	34:BA:482:A:C8	3.07	0.42
34:BA:411:A:C5	34:BA:429:U:C4	3.08	0.42
34:BA:440:A:N6	34:BA:495:U:C4	2.86	0.42
34:BA:497:A:H4'	34:BA:498:U:OP1	2.19	0.42
34:BA:539:A:H2'	34:BA:540:G:H8	1.83	0.42
34:BA:558:G:O5'	34:BA:559:A:O3'	2.38	0.42
34:BA:673:G:O2'	34:BA:674:G:N9	2.53	0.42
34:BA:761:G:C5	34:BA:762:C:C5	3.08	0.42
34:BA:774:G:C6	34:BA:775:G:N7	2.88	0.42
34:BA:791:G:C5	34:BA:792:A:N7	2.88	0.42
34:BA:913:A:HO2'	34:BA:914:A:C4'	2.15	0.42
34:BA:920:U:C2	34:BA:921:U:H6	2.37	0.42
34:BA:975:A:C4	34:BA:1357:A:H2	2.38	0.42
34:BA:994:A:H2	49:BQ:4:LYS:CB	2.31	0.42
34:BA:30(D):A:H2'	34:BA:1031:G:C4'	2.50	0.42
34:BA:1076:C:N4	34:BA:1082:G:C6	2.88	0.42
34:BA:1086:U:C4	34:BA:1099:G:N1	2.82	0.42
34:BA:1129:C:O2'	34:BA:1131:G:C3'	2.63	0.42
34:BA:1129:C:O2	34:BA:1132:C:OP2	2.37	0.42
34:BA:1171:G:C2	34:BA:1172:C:C4	3.08	0.42
34:BA:1309:G:OP1	48:BP:88:ARG:HD2	2.19	0.42
34:BA:1498:U:O2	34:BA:1498:U:C2'	2.67	0.42
34:BA:1537:U:N3	36:B1:53:G:C6	2.87	0.42
35:BB:22:G:C2	35:BB:23:A:N7	2.87	0.42
36:B1:50:G:C6	36:B1:51:G:O6	2.73	0.42
37:BE:18:GLY:HA3	37:BE:41:ILE:CG2	2.45	0.42
37:BE:23:ARG:C	37:BE:24:TRP:CD1	2.98	0.42
37:BE:29:ALA:O	37:BE:31:TYR:N	2.53	0.42
37:BE:70:PHE:HE2	37:BE:163:PHE:CB	2.29	0.42
37:BE:74:LYS:NZ	37:BE:206:ASP:CG	2.78	0.42
37:BE:186:ALA:O	37:BE:201:ILE:CB	2.58	0.42
38:BF:94:LEU:O	38:BF:95:THR:CG2	2.66	0.42
38:BF:120:VAL:CG2	38:BF:137:ALA:CB	2.98	0.42
41:BI:73:ASN:O	41:BI:76:ALA:N	2.52	0.42
42:BJ:13:GLN:HA	42:BJ:14:PRO:HD2	1.87	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BJ:62:PHE:HA	42:BJ:124:LEU:HD21	2.02	0.42
43:BK:6:ILE:CG1	43:BK:85:ARG:HD3	2.50	0.42
43:BK:18:ARG:NH1	43:BK:18:ARG:HG3	2.34	0.42
43:BK:102:ARG:HB2	43:BK:105:ARG:HH11	1.85	0.42
44:BL:24:GLY:HA3	44:BL:57:GLY:HA2	2.02	0.42
44:BL:27:THR:HG22	44:BL:30:GLY:H	1.85	0.42
44:BL:97:LYS:O	44:BL:100:GLY:N	2.53	0.42
44:BL:111:ARG:HB3	44:BL:113:LYS:HE3	2.02	0.42
44:BL:115:GLY:C	44:BL:116:LYS:HD3	2.44	0.42
48:BP:43:THR:C	48:BP:47:ASP:OD2	2.62	0.42
50:BR:3:ILE:CG2	50:BR:34:LEU:HD21	2.45	0.42
55:BW:13:LEU:O	55:BW:14:LYS:O	2.38	0.42
55:BW:44:ALA:HB3	55:BW:91:LEU:HD12	2.02	0.42
2:AA:71:A:P	2:AA:71:A:H3'	2.60	0.41
2:AA:72:U:O4	2:AA:111:A:O2'	2.28	0.41
2:AA:84:A:C6	2:AA:99:U:H1'	2.55	0.41
2:AA:135:G:C6	2:AA:144:C:N4	2.85	0.41
2:AA:197:A:O4'	2:AA:2068:U:C2	2.73	0.41
2:AA:231:C:N3	2:AA:232:G:N2	2.51	0.41
2:AA:245:G:O6	2:AA:253:C:N4	2.53	0.41
2:AA:247:G:N2	32:A8:8:LYS:HE3	2.35	0.41
2:AA:270(C):C:N3	2:AA:270(W):G:C2	2.88	0.41
2:AA:298:G:H8	2:AA:298:G:O5'	2.03	0.41
2:AA:337:C:C3'	2:AA:338:G:H5''	2.36	0.41
2:AA:344:G:O3'	2:AA:345:A:O4'	2.38	0.41
2:AA:388:G:N3	2:AA:390:A:N1	2.68	0.41
2:AA:397:G:OP1	28:A4:41:PRO:CD	2.68	0.41
2:AA:495:G:C2'	2:AA:496:G:O5'	2.68	0.41
2:AA:526:A:N1	2:AA:2626:C:O4'	2.53	0.41
2:AA:531:C:C2	2:AA:532:A:O2'	2.65	0.41
2:AA:661:C:C2	2:AA:662:G:C8	3.08	0.41
2:AA:673:C:H2'	2:AA:674:G:C5'	2.50	0.41
2:AA:749:C:C5	2:AA:750:A:N7	2.88	0.41
2:AA:861:A:C2	2:AA:917:A:C2	3.08	0.41
2:AA:864:G:N2	2:AA:865:C:C4	2.88	0.41
2:AA:876:C:H6	2:AA:876:C:O5'	2.02	0.41
2:AA:931:G:C3'	2:AA:932:G:C8	3.03	0.41
2:AA:962:G:C2	2:AA:963:U:N3	2.88	0.41
2:AA:1028:A:C2	2:AA:1029:A:C5	3.08	0.41
2:AA:1044:G:C5	2:AA:1048:A:C4	3.08	0.41
2:AA:1175:U:O2	2:AA:1175:U:C2'	2.67	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1267:U:H2'	2:AA:1268:A:H5'	2.02	0.41
2:AA:1287:A:C6	2:AA:1649:G:O4'	2.73	0.41
2:AA:1314:C:P	2:AA:1332:G:H5'	2.59	0.41
2:AA:1338:G:N2	2:AA:1339:G:C4	2.88	0.41
2:AA:1342:A:C2	2:AA:1345:C:C5	3.08	0.41
2:AA:1343:G:C2	2:AA:1405:U:C4	3.07	0.41
2:AA:1365:A:OP2	28:A4:3:LYS:HD2	2.19	0.41
2:AA:1376:C:C2'	2:AA:1377:G:H8	2.30	0.41
2:AA:1378:A:C8	2:AA:1380:G:C6	3.08	0.41
2:AA:1388:G:C5	2:AA:1389:G:C8	3.08	0.41
2:AA:1599:C:H3'	2:AA:1599:C:C6	2.55	0.41
2:AA:1613:G:N9	2:AA:1617:C:N4	2.68	0.41
2:AA:1633:G:C6	2:AA:1635:G:N2	2.88	0.41
2:AA:1685:C:C2	2:AA:1704:G:C2	3.08	0.41
2:AA:1709:U:C5	2:AA:1710:C:C5	3.08	0.41
2:AA:1726:G:N1	2:AA:1734:C:O2	2.51	0.41
2:AA:1779:U:OP2	2:AA:1784:A:N6	2.48	0.41
2:AA:1807:G:N3	2:AA:1809:A:H5'	2.35	0.41
2:AA:1818:U:H2'	4:AD:153:LEU:HA	2.01	0.41
2:AA:1861:G:C2'	2:AA:1862:G:H5'	2.50	0.41
2:AA:1893:C:C6	2:AA:1894:C:H5	2.38	0.41
2:AA:1918:A:OP2	2:AA:1918:A:O4'	2.37	0.41
2:AA:1941:C:C4	2:AA:1965:C:C2	3.08	0.41
2:AA:1959:G:N1	2:AA:1960:A:C5	2.87	0.41
2:AA:1999:C:C4	2:AA:2000:G:N7	2.88	0.41
2:AA:2049:G:C2	2:AA:2620:C:C4	3.08	0.41
2:AA:2110:G:H3'	2:AA:2120:G:OP2	2.20	0.41
2:AA:2138:C:N3	2:AA:2139:C:C5	2.88	0.41
2:AA:2263:C:H2'	2:AA:2264:C:H6	1.85	0.41
2:AA:2273:A:C8	2:AA:2274:A:N9	2.88	0.41
2:AA:2278:A:OP1	15:AP:20:ILE:HG23	2.20	0.41
2:AA:2282:G:C4'	2:AA:2283:C:O5'	2.68	0.41
2:AA:2313:C:H4'	7:AG:72:LYS:HB3	2.02	0.41
2:AA:2332:U:C2'	2:AA:2336:A:H62	2.29	0.41
2:AA:2333:A:O4'	2:AA:2335:A:C4	2.72	0.41
2:AA:2443:C:C4	2:AA:2444:G:N7	2.87	0.41
2:AA:2458:G:N7	2:AA:2490:G:C4	2.87	0.41
2:AA:2461:C:C6	2:AA:2461:C:O5'	2.73	0.41
2:AA:2569:G:O2'	2:AA:2570:G:O5'	2.32	0.41
2:AA:2589:A:N7	2:AA:2590:A:N7	2.68	0.41
2:AA:2667:C:O2	8:AH:108:TYR:HA	2.18	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2688:U:O4	2:AA:2720:U:OP2	2.38	0.41
2:AA:2718:G:C2'	2:AA:2719:G:O5'	2.67	0.41
3:AC:49:ILE:HB	3:AC:56:GLN:HG2	2.02	0.41
3:AC:74:VAL:HG13	3:AC:112:ALA:O	2.20	0.41
3:AC:163:PHE:CG	3:AC:171:ILE:HD11	2.55	0.41
4:AD:62:ARG:NH2	4:AD:85:ASN:CG	2.77	0.41
4:AD:77:VAL:HA	4:AD:93:ILE:HD12	2.02	0.41
4:AD:81:GLU:CG	4:AD:92:LEU:CD1	2.94	0.41
4:AD:200:THR:O	4:AD:201:ASP:C	2.63	0.41
5:AE:79:ARG:HH12	5:AE:104:PHE:C	2.28	0.41
6:AF:158:GLU:OE2	6:AF:158:GLU:CA	2.67	0.41
7:AG:53:LYS:HD2	7:AG:69:ILE:CG2	2.50	0.41
7:AG:68:PRO:C	7:AG:69:ILE:HG13	2.44	0.41
8:AH:34:ARG:HB3	8:AH:36:PHE:HE1	1.85	0.41
8:AH:163:TYR:O	8:AH:166:GLU:HG2	2.20	0.41
9:AI:18:LEU:CD1	9:AI:45:ALA:HA	2.50	0.41
9:AI:30:GLY:C	9:AI:32:THR:N	2.78	0.41
9:AJ:94:LYS:O	9:AJ:95:ALA:C	2.63	0.41
9:AJ:103:LYS:HD3	9:AJ:114:ILE:CG2	2.50	0.41
10:AK:95:SER:OG	10:AK:98:ILE:CB	2.68	0.41
10:AK:116:GLU:CD	10:AK:130:PRO:C	2.88	0.41
11:AL:72:THR:HG21	11:AL:115:ASP:H	1.85	0.41
12:AM:46:ILE:CG2	12:AM:53:ILE:HD11	2.42	0.41
12:AM:103:VAL:HG12	12:AM:104:TYR:N	2.35	0.41
13:AN:77:ILE:O	13:AN:78:ARG:HG2	2.20	0.41
14:AO:66:VAL:N	14:AO:67:ARG:NH2	2.48	0.41
14:AO:67:ARG:NH1	14:AO:111:ALA:CB	2.69	0.41
15:AP:27:GLY:O	15:AP:28:ILE:HG12	2.19	0.41
16:AQ:72:GLU:HB3	16:AQ:74:PRO:HD2	2.01	0.41
18:AS:11:ARG:HH11	18:AS:11:ARG:HG3	1.85	0.41
19:AT:7:HIS:CD2	19:AT:27:ALA:CB	3.03	0.41
19:AT:18:MET:HA	19:AT:24:LEU:HA	2.01	0.41
20:AU:19:ARG:O	20:AU:20:HIS:C	2.62	0.41
20:AU:50:VAL:CG1	20:AU:52:ARG:H	2.33	0.41
20:AU:71:VAL:O	20:AU:72:ILE:HG13	2.20	0.41
21:AV:36:ARG:HG3	21:AV:36:ARG:H	1.27	0.41
21:AV:46:GLN:HE21	21:AV:50:GLY:HA2	1.75	0.41
21:AV:163:ASP:OD2	21:AV:164:PRO:HG2	2.20	0.41
22:AW:19:GLU:OE2	22:AW:56:ILE:HD13	2.20	0.41
24:A0:61:HIS:C	24:A0:64:ARG:NH1	2.72	0.41
24:A0:83:ILE:O	24:A0:86:ARG:HG3	2.19	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:32:TYR:C	25:A1:36:PHE:CE1	2.98	0.41
25:A1:61:TRP:H	25:A1:61:TRP:CD1	2.37	0.41
25:A1:113:SER:HA	25:A1:116:ALA:HB2	2.01	0.41
26:A2:46:VAL:O	26:A2:47:PHE:CG	2.73	0.41
27:A3:26:PHE:CA	27:A3:60:PHE:CE1	3.03	0.41
28:A4:41:PRO:HB2	28:A4:42:PHE:H	1.63	0.41
31:A7:4:THR:O	31:A7:6:GLN:OE1	2.37	0.41
32:A8:5:LYS:HB3	32:A8:60:LEU:HA	2.02	0.41
32:A8:13:ARG:CB	32:A8:24:ALA:HB1	2.35	0.41
32:A8:45:GLY:C	32:A8:46:LYS:CG	2.93	0.41
33:A9:29:ASN:C	33:A9:31:LYS:N	2.75	0.41
34:BA:41:G:C2	34:BA:42:G:C5	3.08	0.41
34:BA:105:G:N2	34:BA:379:C:O2'	2.53	0.41
34:BA:137:C:H2'	34:BA:138:G:C5'	2.50	0.41
34:BA:166:G:N1	34:BA:167:G:C8	2.88	0.41
34:BA:380:G:N2	34:BA:383:A:OP2	2.52	0.41
34:BA:411:A:H3'	34:BA:411:A:H8	1.84	0.41
34:BA:428:G:C2	34:BA:430:A:C6	3.07	0.41
34:BA:483:C:N4	34:BA:484:G:N2	2.67	0.41
34:BA:584:G:N1	34:BA:585:G:C5	2.88	0.41
34:BA:606:G:N2	34:BA:632:A:H62	2.17	0.41
34:BA:667:G:N2	34:BA:740:U:N1	2.67	0.41
34:BA:696:A:H2'	34:BA:697:U:H6	1.84	0.41
34:BA:830:G:C2	34:BA:857:C:O2	2.73	0.41
34:BA:859:A:H2'	34:BA:860:A:C4'	2.48	0.41
34:BA:859:A:N7	34:BA:860:A:C4	2.88	0.41
34:BA:905:U:C4	34:BA:906:G:C4	3.08	0.41
34:BA:937:A:H2'	34:BA:938:A:C8	2.55	0.41
34:BA:961:U:C5	34:BA:983:A:N6	2.88	0.41
34:BA:981:U:C2'	34:BA:982:U:C5	3.00	0.41
34:BA:1051:C:C5	34:BA:1052:U:C4	3.08	0.41
34:BA:1061:G:C6	34:BA:1197:G:C6	3.07	0.41
34:BA:1163:C:C4	34:BA:1174:G:C2	3.08	0.41
34:BA:1193:G:N1	34:BA:1194:U:C2	2.88	0.41
34:BA:1283:G:C2'	34:BA:1284:C:C5'	2.95	0.41
34:BA:1300:G:C2'	34:BA:1301:U:OP2	2.68	0.41
34:BA:1508:G:C2'	34:BA:1509:C:O5'	2.68	0.41
35:BB:65:G:C4	35:BB:66:A:N7	2.88	0.41
35:BB:72:C:H2'	35:BB:73:A:O5'	2.20	0.41
35:BC:23:A:C6	35:BC:24:G:C6	3.08	0.41
36:B1:66:G:C8	36:B1:66:G:P	3.13	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:32:ILE:HD11	37:BE:40:HIS:CD2	2.54	0.41
37:BE:54:THR:O	37:BE:55:PHE:C	2.60	0.41
37:BE:56:ARG:O	37:BE:59:GLU:HG3	2.20	0.41
37:BE:150:SER:CA	37:BE:153:ARG:CB	2.84	0.41
37:BE:167:PRO:HG3	37:BE:188:ALA:HB2	2.02	0.41
37:BE:217:ARG:HH11	37:BE:217:ARG:CG	2.33	0.41
38:BF:21:ARG:O	38:BF:22:TRP:HD1	2.03	0.41
38:BF:59:ARG:HD3	38:BF:64:VAL:HG22	2.02	0.41
38:BF:61:ALA:O	38:BF:62:ASP:C	2.63	0.41
38:BF:110:ASN:CB	38:BF:144:SER:OG	2.68	0.41
38:BF:172:ARG:NH2	38:BF:203:PHE:CE2	2.83	0.41
39:BG:64:LEU:HD22	39:BG:64:LEU:C	2.44	0.41
39:BG:173:TRP:NE1	39:BG:189:PRO:HD3	2.34	0.41
40:BH:39:GLY:HA2	40:BH:69:VAL:HB	2.01	0.41
40:BH:95:ALA:HB3	40:BH:96:PRO:HD2	2.02	0.41
41:BI:80:ARG:CA	41:BI:85:VAL:HG11	2.50	0.41
41:BI:97:PHE:CD2	53:BU:31:LEU:HB2	2.55	0.41
42:BJ:14:PRO:HB3	42:BJ:21:VAL:N	2.35	0.41
42:BJ:69:VAL:CG2	42:BJ:134:ALA:HB1	2.41	0.41
42:BJ:146:GLU:HG2	42:BJ:149:ARG:CZ	2.50	0.41
43:BK:39:LEU:HD12	43:BK:44:PHE:HB3	2.02	0.41
43:BK:93:VAL:HB	43:BK:133:LEU:CD1	2.47	0.41
43:BK:97:VAL:HG12	43:BK:99:GLU:HG3	2.02	0.41
44:BL:10:ARG:HB2	44:BL:104:ARG:O	2.20	0.41
44:BL:53:VAL:O	44:BL:54:ASP:HB3	2.20	0.41
44:BL:99:LEU:O	44:BL:101:PHE:CE1	2.73	0.41
46:BN:43:SER:CA	46:BN:47:VAL:HG11	2.48	0.41
46:BN:45:GLY:HA3	46:BN:55:LYS:CG	2.50	0.41
46:BN:66:LEU:O	46:BN:68:ALA:N	2.53	0.41
47:BO:58:VAL:C	47:BO:60:LEU:HD13	2.44	0.41
48:BP:29:ARG:HD3	48:BP:64:TRP:CD1	2.55	0.41
49:BQ:54:PRO:O	49:BQ:56:VAL:N	2.53	0.41
50:BR:3:ILE:CA	50:BR:38:ARG:NH2	2.83	0.41
50:BR:32:LEU:N	50:BR:32:LEU:HD23	2.34	0.41
50:BR:71:GLN:HA	50:BR:75:PRO:HA	2.01	0.41
52:BT:5:VAL:HG22	52:BT:59:ILE:O	2.20	0.41
52:BT:52:LYS:O	52:BT:55:ASP:OD2	2.38	0.41
52:BT:76:LEU:HD23	52:BT:77:VAL:C	2.45	0.41
53:BU:63:GLN:CA	53:BU:66:LEU:CD2	2.96	0.41
53:BU:79:LEU:O	53:BU:79:LEU:CD2	2.55	0.41
53:BU:83:GLU:C	53:BU:84:LYS:HG2	2.44	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:53:ASN:HD21	54:BV:58:VAL:CG1	2.28	0.41
1:AB:21:G:C2	1:AB:63:G:C6	3.08	0.41
1:AB:94:C:H6	1:AB:94:C:O5'	2.02	0.41
2:AA:72:U:OP2	19:AT:2:TRP:NE1	2.53	0.41
2:AA:97:C:C5	2:AA:98:G:N7	2.88	0.41
2:AA:133:C:C2	2:AA:134:C:C6	3.09	0.41
2:AA:172:C:C2	2:AA:173:G:N7	2.88	0.41
2:AA:199:A:C5	2:AA:2433:A:N7	2.88	0.41
2:AA:207:A:N3	2:AA:208:C:C1'	2.82	0.41
2:AA:221:A:C6	2:AA:266:G:N7	2.88	0.41
2:AA:271(B):G:OP1	2:AA:271(C):U:O4'	2.38	0.41
2:AA:358:U:OP2	2:AA:359:A:N7	2.53	0.41
2:AA:422:A:C2	2:AA:423:A:O4'	2.73	0.41
2:AA:438:G:C6	2:AA:439:G:N7	2.88	0.41
2:AA:528:A:N7	2:AA:2042:A:N7	2.68	0.41
2:AA:570:G:C5	2:AA:2030:A:N1	2.89	0.41
2:AA:614:U:OP2	2:AA:615:G:O4'	2.39	0.41
2:AA:624:C:O2	2:AA:657:U:OP1	2.38	0.41
2:AA:627:A:N3	2:AA:637:A:C2	2.87	0.41
2:AA:656:G:H8	2:AA:656:G:P	2.43	0.41
2:AA:675:A:N7	2:AA:804:A:N1	2.69	0.41
2:AA:705:A:C2	2:AA:706:A:C4	3.08	0.41
2:AA:759:G:N3	2:AA:760:G:C8	2.88	0.41
2:AA:804:A:C3'	2:AA:806:C:H42	2.33	0.41
2:AA:859:G:O4'	2:AA:859:G:P	2.78	0.41
2:AA:879:G:C2	2:AA:880:G:C4	3.09	0.41
2:AA:956:G:H2'	2:AA:957:A:H5'	2.00	0.41
2:AA:962:G:C2	2:AA:963:U:C2	3.08	0.41
2:AA:987:G:C2'	2:AA:988:A:C5'	2.82	0.41
2:AA:990:A:N6	2:AA:1186:G:H1'	2.35	0.41
2:AA:997:G:N3	2:AA:998:C:C5	2.88	0.41
2:AA:1020:A:H4'	12:AM:49:ARG:NH2	2.33	0.41
2:AA:1062:G:H21	11:AL:92:PRO:HG3	1.77	0.41
2:AA:1071:G:C3'	2:AA:1072:C:C5'	2.98	0.41
2:AA:1082:U:O2'	11:AL:118:ALA:HB2	2.19	0.41
2:AA:1164:G:O2'	2:AA:1165:U:H5'	2.19	0.41
2:AA:1316:U:C2	2:AA:1337:G:N2	2.88	0.41
2:AA:1387:C:N4	2:AA:1400:G:H1	2.14	0.41
2:AA:1468:C:N3	2:AA:1469:A:C5	2.88	0.41
2:AA:1506:C:H2'	2:AA:1507:A:O5'	2.20	0.41
2:AA:1628:G:H2'	2:AA:1629:U:C6	2.54	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1640:C:C5	2:AA:1641:A:N7	2.88	0.41
2:AA:1670:C:O5'	2:AA:1671:U:H5	2.03	0.41
2:AA:1679:U:O2	2:AA:1989:G:N2	2.39	0.41
2:AA:1791:A:O5'	2:AA:1791:A:C8	2.62	0.41
2:AA:1798:U:H1'	2:AA:1802:A:C2	2.55	0.41
2:AA:1802:A:N3	2:AA:1802:A:C2'	2.77	0.41
2:AA:1805:U:C5'	4:AD:235:PRO:HG2	2.50	0.41
2:AA:1807:G:N2	2:AA:1809:A:OP2	2.53	0.41
2:AA:1864:U:HO2'	2:AA:1869:G:H5'	1.83	0.41
2:AA:1935:G:O2'	2:AA:1936:A:OP2	2.29	0.41
2:AA:1957:C:C2	2:AA:1958:C:C5	3.08	0.41
2:AA:1957:C:H3'	2:AA:1958:C:C6	2.55	0.41
2:AA:1986:A:C2	2:AA:1987:G:N9	2.88	0.41
2:AA:2052:G:H4'	5:AE:239:GLY:O	2.20	0.41
2:AA:2097:C:C2	2:AA:2192:G:N2	2.76	0.41
2:AA:2122:U:N3	2:AA:2123:G:C8	2.88	0.41
2:AA:2148:G:H2'	2:AA:2149:G:C4'	2.45	0.41
2:AA:2181:G:N3	2:AA:2182:G:H5''	2.35	0.41
2:AA:2266:A:C2	2:AA:2272:U:C6	3.08	0.41
2:AA:2280:G:N3	2:AA:2281:C:C5	2.87	0.41
2:AA:2348:U:H5''	32:A8:42:ARG:NH2	2.31	0.41
2:AA:2391:G:H22	2:AA:2424:C:H3'	1.84	0.41
2:AA:2393:A:O2'	2:AA:2394:C:H5'	2.20	0.41
2:AA:2453:A:C4'	2:AA:2572:A:O2'	2.57	0.41
2:AA:2516:G:C5	2:AA:2517:C:C4	3.09	0.41
2:AA:2525:G:C6	2:AA:2539:C:N4	2.88	0.41
2:AA:2558:C:O2	2:AA:2558:C:H2'	2.20	0.41
2:AA:2578:G:N3	2:AA:2579:C:C6	2.88	0.41
2:AA:2694:G:C2'	2:AA:2695:C:O5'	2.68	0.41
2:AA:2779:U:C6	2:AA:2779:U:C3'	3.03	0.41
2:AA:2792:G:C2	2:AA:2793:G:C6	3.08	0.41
3:AC:110:PHE:CE1	3:AC:113:VAL:HG23	2.54	0.41
3:AC:133:PRO:HG3	3:AC:134:ARG:HH12	1.81	0.41
3:AC:167:LYS:HB2	3:AC:167:LYS:HE3	1.71	0.41
4:AD:134:ILE:CG2	4:AD:163:VAL:HG21	2.51	0.41
4:AD:141:HIS:O	4:AD:142:ASN:CB	2.69	0.41
4:AD:204:PHE:HB3	4:AD:209:ASN:HB2	2.01	0.41
4:AD:208:GLY:C	4:AD:211:HIS:CE1	2.97	0.41
5:AE:198:TYR:HD2	5:AE:265:ASN:HA	1.85	0.41
6:AF:62:GLY:C	6:AF:63:SER:HG	2.19	0.41
6:AF:138:VAL:O	6:AF:139:VAL:CB	2.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:141:SER:O	6:AF:144:PHE:HD1	2.03	0.41
6:AF:206:ASN:O	6:AF:207:LEU:CD2	2.69	0.41
7:AG:93:LEU:CD1	7:AG:106:PHE:CD2	2.99	0.41
8:AH:58:LYS:CA	8:AH:61:ARG:NH1	2.83	0.41
8:AH:115:GLU:O	8:AH:115:GLU:OE2	2.37	0.41
9:AI:61:VAL:CG1	9:AI:125:VAL:HG11	2.51	0.41
9:AI:94:LYS:O	9:AI:95:ALA:C	2.63	0.41
9:AI:103:LYS:HD3	9:AI:114:ILE:CG2	2.50	0.41
9:AJ:5:GLU:HA	9:AJ:8:GLU:CD	2.46	0.41
9:AJ:72:GLN:H	9:AJ:72:GLN:HG2	1.59	0.41
9:AJ:74:ILE:HD12	11:AL:61:TYR:CD2	2.38	0.41
11:AL:61:TYR:CD1	11:AL:61:TYR:N	2.87	0.41
12:AM:19:MET:HE1	12:AM:22:VAL:CG1	2.49	0.41
12:AM:45:VAL:CG1	12:AM:131:THR:OG1	2.69	0.41
14:AO:92:ASP:CB	14:AO:118:LEU:CG	2.98	0.41
15:AP:34:GLY:CA	15:AP:83:PHE:CD1	3.03	0.41
15:AP:43:PRO:HD2	15:AP:127:ASN:OD1	2.20	0.41
15:AP:64:ALA:CB	15:AP:142:LYS:HG3	2.48	0.41
15:AP:89:PRO:CG	15:AP:89:PRO:O	2.67	0.41
15:AP:94:ARG:NH1	15:AP:105:PHE:O	2.52	0.41
15:AP:129:ASP:O	15:AP:129:ASP:CG	2.58	0.41
16:AQ:92:ALA:C	16:AQ:94:GLU:N	2.78	0.41
18:AS:29:LEU:CD1	18:AS:33:ARG:CD	2.91	0.41
18:AS:47:VAL:O	18:AS:50:VAL:HB	2.20	0.41
20:AU:101:LEU:CD2	20:AU:112:LEU:HD11	2.47	0.41
21:AV:52:PHE:O	21:AV:65:LEU:CG	2.68	0.41
22:AW:28:LEU:O	22:AW:31:ARG:N	2.53	0.41
23:AX:16:PRO:CB	23:AX:19:GLN:CD	2.93	0.41
23:AX:51:ALA:C	23:AX:53:LEU:N	2.77	0.41
24:A0:44:LEU:HD13	24:A0:44:LEU:C	2.45	0.41
25:A1:50:ARG:NH2	26:A2:74:TYR:CD2	2.79	0.41
25:A1:102:GLU:O	25:A1:105:ALA:HB3	2.20	0.41
27:A3:35:ASN:O	27:A3:36:ILE:CG1	2.67	0.41
28:A4:10:VAL:O	28:A4:10:VAL:CG1	2.65	0.41
28:A4:42:PHE:C	28:A4:57:ASP:CG	2.88	0.41
30:A6:17:GLY:C	30:A6:18:THR:HG22	2.45	0.41
31:A7:30:ILE:C	31:A7:33:ARG:HB2	2.45	0.41
32:A8:16:ILE:CD1	32:A8:64:ARG:HB3	2.50	0.41
34:BA:237:C:OP2	52:BT:40:LYS:NZ	2.52	0.41
34:BA:252:U:C2	34:BA:253:U:C5	3.08	0.41
34:BA:259:G:C2	34:BA:260:G:N3	2.88	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:265:G:H5''	52:BT:65:ILE:HA	2.02	0.41
34:BA:332:G:H2'	34:BA:333:G:O5'	2.20	0.41
34:BA:395:C:C2	34:BA:396:G:C8	3.09	0.41
34:BA:413:G:C2'	34:BA:414:A:OP2	2.68	0.41
34:BA:446:G:C6	34:BA:447:G:C5	3.08	0.41
34:BA:463:A:H2'	34:BA:474:G:O5'	2.20	0.41
34:BA:495:U:H2'	34:BA:496:A:H5'	2.02	0.41
34:BA:499:A:C2	34:BA:547:A:C2	3.09	0.41
34:BA:541:G:C2	34:BA:542:G:C8	3.08	0.41
34:BA:563:A:O2'	34:BA:566:G:C2'	2.66	0.41
34:BA:582:U:H1'	52:BT:105:ALA:HA	2.02	0.41
34:BA:690:G:H2'	34:BA:691:G:H5'	2.01	0.41
34:BA:713:G:C2	34:BA:714:G:N1	2.88	0.41
34:BA:939:G:H5''	42:BJ:102:ARG:HH22	1.86	0.41
34:BA:944:G:O6	34:BA:1337:G:H8	2.03	0.41
34:BA:962:C:N4	34:BA:963:G:C6	2.88	0.41
34:BA:988:G:N1	34:BA:1217:C:C2	2.82	0.41
34:BA:1015:A:O2'	34:BA:1218:C:H4'	2.20	0.41
34:BA:1108:G:H2'	34:BA:1109:C:C5'	2.49	0.41
34:BA:1160:G:N2	34:BA:1161:C:C6	2.87	0.41
34:BA:1164:G:C6	34:BA:1165:C:C4	3.08	0.41
34:BA:1167:A:H2'	34:BA:1168:A:C8	2.55	0.41
34:BA:1199:U:C4'	45:BM:54:PHE:HE2	2.34	0.41
34:BA:1338:G:N3	35:BC:41:U:O2'	2.53	0.41
34:BA:1343:G:H2'	34:BA:1344:C:O4'	2.19	0.41
34:BA:1348:U:O2	34:BA:1349:A:H8	2.03	0.41
34:BA:1350:A:C5	34:BA:1351:U:C4	3.08	0.41
34:BA:1415:G:C4	34:BA:1416:G:C8	3.08	0.41
34:BA:1438:G:C4	34:BA:1439:C:C6	3.08	0.41
34:BA:1530:G:N1	34:BA:1531:A:C6	2.88	0.41
35:BB:4:G:H2'	35:BB:5:A:O4'	2.20	0.41
35:BB:5:A:N1	35:BB:69:U:C2	2.88	0.41
35:BB:31:A:C2	35:BB:40:C:N3	2.88	0.41
35:BC:73:A:O2'	35:BC:74:C:OP2	2.37	0.41
35:BC:74:C:H2'	35:BC:75:C:C4'	2.50	0.41
37:BE:169:LYS:C	37:BE:169:LYS:HE2	2.45	0.41
39:BG:43:HIS:C	39:BG:45:GLN:H	2.27	0.41
39:BG:54:TYR:O	39:BG:56:VAL:N	2.51	0.41
39:BG:64:LEU:HD13	39:BG:65:ARG:CA	2.50	0.41
39:BG:170:VAL:CG2	39:BG:176:LEU:CB	2.92	0.41
40:BH:35:GLY:C	40:BH:112:LEU:HD12	2.44	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BI:7:ASN:O	41:BI:89:MET:O	2.38	0.41
42:BJ:38:LEU:O	42:BJ:41:ARG:HB2	2.20	0.41
42:BJ:54:THR:O	42:BJ:55:GLY:C	2.63	0.41
42:BJ:69:VAL:HG22	42:BJ:135:VAL:N	2.35	0.41
42:BJ:94:ARG:HH11	42:BJ:94:ARG:CG	2.30	0.41
42:BJ:116:ALA:C	42:BJ:118:VAL:N	2.77	0.41
43:BK:18:ARG:H	43:BK:18:ARG:CD	2.29	0.41
43:BK:35:ILE:C	43:BK:37:ARG:N	2.75	0.41
45:BM:27:ALA:C	45:BM:29:ARG:H	2.27	0.41
45:BM:52:GLY:HA2	45:BM:53:PRO:HD2	1.85	0.41
46:BN:90:GLY:O	46:BN:92:GLU:N	2.53	0.41
47:BO:46:LYS:HE3	47:BO:47:LYS:CE	2.37	0.41
47:BO:70:ILE:HG21	47:BO:70:ILE:HD13	1.86	0.41
47:BO:73:GLU:OE2	47:BO:73:GLU:CA	2.67	0.41
48:BP:69:GLU:CA	48:BP:72:ALA:HB3	2.50	0.41
48:BP:90:LEU:C	48:BP:93:ARG:HB3	2.42	0.41
49:BQ:26:ARG:O	49:BQ:28:GLY:N	2.47	0.41
50:BR:59:MET:C	50:BR:61:GLY:N	2.72	0.41
51:BS:10:GLY:HA2	51:BS:14:ASN:HD21	1.84	0.41
51:BS:18:ARG:HA	51:BS:35:LYS:HZ2	1.84	0.41
52:BT:75:ARG:NH1	52:BT:75:ARG:CG	2.70	0.41
54:BV:71:LEU:O	54:BV:72:GLY:C	2.63	0.41
2:AA:55:G:C4	2:AA:56:A:C8	3.08	0.41
2:AA:107:C:HO2'	2:AA:108:U:C5'	2.33	0.41
2:AA:122:G:C2	2:AA:130:C:N1	2.89	0.41
2:AA:150:C:H2'	2:AA:151:C:C5'	2.49	0.41
2:AA:181:A:C4	2:AA:182:A:C8	3.09	0.41
2:AA:226:G:O2'	2:AA:227:A:O4'	2.37	0.41
2:AA:269:U:C2	2:AA:424:G:C6	3.08	0.41
2:AA:289:A:O2'	2:AA:351:G:N7	2.51	0.41
2:AA:300:A:C4	2:AA:334:C:H1'	2.56	0.41
2:AA:382:G:H2'	2:AA:383:U:H5'	2.03	0.41
2:AA:451:C:H2'	2:AA:452:G:C8	2.55	0.41
2:AA:470:A:H3'	2:AA:471:A:H8	1.85	0.41
2:AA:475:U:HO2'	2:AA:476:G:H5'	1.82	0.41
2:AA:485:C:N3	2:AA:495:G:O6	2.53	0.41
2:AA:537:C:O2'	2:AA:539:G:H5'	2.19	0.41
2:AA:558:G:C6	2:AA:559:G:O6	2.73	0.41
2:AA:575:A:HO2'	2:AA:576:U:H5'	1.83	0.41
2:AA:588:U:O4	2:AA:589:C:N4	2.51	0.41
2:AA:592:G:C2	2:AA:593:G:C8	3.09	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:612:G:O4'	2:AA:612:G:OP2	2.39	0.41
2:AA:640:C:C2'	2:AA:641:C:C5'	2.90	0.41
2:AA:659:C:N3	2:AA:660:G:N7	2.68	0.41
2:AA:673:C:C2'	2:AA:674:G:O5'	2.68	0.41
2:AA:686:G:C8	31:A7:8:ASN:ND2	2.87	0.41
2:AA:700:G:C2	2:AA:701:G:C4	3.09	0.41
2:AA:735:A:C6	2:AA:736:C:C2	3.08	0.41
2:AA:892:G:O6	2:AA:893:C:N4	2.53	0.41
2:AA:993:G:H1'	2:AA:1162:G:C2	2.51	0.41
2:AA:1034:G:C5	2:AA:1035:U:C5	3.08	0.41
2:AA:1083:U:H2'	2:AA:1083:U:O2	2.19	0.41
2:AA:1181:C:C2	2:AA:1182:A:N7	2.88	0.41
2:AA:1219:G:N2	2:AA:1229:G:O6	2.53	0.41
2:AA:1224:G:O2'	26:A2:86:HIS:HB3	2.20	0.41
2:AA:1233:C:N3	2:AA:1234:U:C5	2.88	0.41
2:AA:1364:G:C4	2:AA:1368:G:C2	3.08	0.41
2:AA:1410:G:C6	2:AA:1593:G:N1	2.87	0.41
2:AA:1424:G:C6	2:AA:1425:G:C1'	3.03	0.41
2:AA:1447:G:H1'	2:AA:545(A):A:O4'	2.20	0.41
2:AA:1484:G:C2	2:AA:1485:G:C5	3.08	0.41
2:AA:1535:U:O5'	2:AA:1535:U:C2	2.73	0.41
2:AA:1661:G:H2'	2:AA:1662:C:O5'	2.20	0.41
2:AA:1769:G:C2'	2:AA:1770:G:O5'	2.68	0.41
2:AA:1841:U:H3	2:AA:1901:A:H61	1.68	0.41
2:AA:1851:U:C2'	2:AA:1852:C:H6	2.26	0.41
2:AA:1859:A:C8	2:AA:1859:A:C3'	3.03	0.41
2:AA:1919:A:P	2:AA:1920:C:OP2	2.78	0.41
2:AA:1935:G:C5	2:AA:1962:C:C4	3.04	0.41
2:AA:2020:A:H62	29:A5:9:LYS:CE	2.32	0.41
2:AA:2053:G:OP1	5:AE:241:TRP:HA	2.20	0.41
2:AA:2061:G:C4	2:AA:2503:A:C2	3.08	0.41
2:AA:2086:U:H3	2:AA:2233:U:H3	1.67	0.41
2:AA:2101:G:C6	2:AA:2102:U:C4	3.08	0.41
2:AA:2174:C:C4'	3:AC:218:MET:HE3	2.50	0.41
2:AA:2278:A:N1	2:AA:2279:G:C4	2.88	0.41
2:AA:2404:C:C4	2:AA:2414:G:C2	3.08	0.41
2:AA:2421:G:C5'	30:A6:4:ASP:OD1	2.54	0.41
2:AA:2455:G:C2	2:AA:2456:C:C2	3.09	0.41
2:AA:2475:C:HO2'	2:AA:2477:C:P	2.43	0.41
2:AA:2540:C:O2'	2:AA:2541:A:H5'	2.19	0.41
2:AA:2635:C:H2'	2:AA:2636:U:O5'	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2720:U:C6	2:AA:2721:A:N7	2.88	0.41
2:AA:2733:A:H1'	5:AE:318:ASN:ND2	2.36	0.41
2:AA:2747:G:N1	2:AA:2754:U:N3	2.68	0.41
2:AA:2804:C:O2	2:AA:2804:C:O4'	2.37	0.41
2:AA:2838:G:C2	2:AA:2839:G:C8	3.09	0.41
2:AA:2889:C:O2'	2:AA:2891:G:H5'	2.20	0.41
3:AC:56:GLN:CA	3:AC:201:PRO:CB	2.90	0.41
4:AD:130:PRO:C	4:AD:132:GLU:N	2.74	0.41
4:AD:169:LYS:HZ3	4:AD:169:LYS:HB2	1.86	0.41
4:AD:181:ARG:HB3	4:AD:181:ARG:HH11	1.72	0.41
5:AE:45:LYS:N	5:AE:74:GLU:OE1	2.53	0.41
5:AE:66:GLU:HB2	5:AE:67:THR:H	1.73	0.41
5:AE:76:PRO:CA	5:AE:292:PRO:CG	2.82	0.41
5:AE:269:ILE:CB	5:AE:297:LYS:HZ2	2.33	0.41
6:AF:115:LEU:HD23	6:AF:246:ARG:HH22	1.81	0.41
7:AG:35:ALA:O	7:AG:36:ASN:ND2	2.53	0.41
7:AG:37:ALA:C	7:AG:39:ASP:N	2.77	0.41
7:AG:142:ALA:HB2	7:AG:151:ILE:HD11	2.02	0.41
8:AH:27:GLY:HA3	8:AH:28:PRO:HD2	1.94	0.41
9:AJ:5:GLU:O	9:AJ:8:GLU:HB2	2.20	0.41
10:AK:25:TYR:HB2	10:AK:26:ALA:H	1.55	0.41
10:AK:110:LEU:CD2	10:AK:114:LYS:HZ1	2.32	0.41
10:AK:111:ASP:OD2	10:AK:112:LYS:N	2.53	0.41
10:AK:119:ASP:CG	10:AK:120:ALA:H	2.22	0.41
12:AM:19:MET:HA	12:AM:19:MET:CE	2.28	0.41
12:AM:52:GLN:HB3	12:AM:56:LYS:HE2	2.01	0.41
12:AM:63:ILE:CB	12:AM:71:TYR:CZ	3.03	0.41
14:AO:62:ALA:HB3	14:AO:105:TYR:C	2.44	0.41
14:AO:65:ASP:OD1	14:AO:68:GLU:OE1	2.37	0.41
14:AO:81:VAL:HG12	14:AO:116:HIS:NE2	2.33	0.41
15:AP:67:ALA:CB	15:AP:70:ARG:HH11	2.31	0.41
15:AP:142:LYS:O	15:AP:143:VAL:C	2.59	0.41
16:AQ:9:PRO:HB2	16:AQ:10:MET:H	1.37	0.41
16:AQ:12:ARG:CD	16:AQ:20:TYR:CZ	3.03	0.41
16:AQ:22:GLN:HA	16:AQ:25:ARG:CB	2.50	0.41
16:AQ:75:THR:O	16:AQ:76:GLY:C	2.62	0.41
17:AR:6:CYS:C	17:AR:7:ASP:CG	2.88	0.41
19:AT:13:LYS:HE2	19:AT:13:LYS:HB2	1.75	0.41
19:AT:24:LEU:HD12	19:AT:66:VAL:O	2.20	0.41
19:AT:51:GLN:O	19:AT:52:VAL:HG23	2.19	0.41
21:AV:114:ASP:HA	21:AV:170:SER:O	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AX:6:VAL:CG2	23:AX:55:ARG:O	2.68	0.41
24:A0:97:VAL:HG13	24:A0:114:VAL:HG21	1.92	0.41
25:A1:76:TYR:O	25:A1:80:ILE:CD1	2.68	0.41
25:A1:98:ILE:HD11	26:A2:13:ARG:NE	2.11	0.41
29:A5:43:HIS:O	29:A5:52:TYR:CE2	2.73	0.41
29:A5:56:GLN:O	29:A5:57:VAL:CG2	2.65	0.41
31:A7:35:ARG:HB2	31:A7:36:ALA:H	1.68	0.41
34:BA:10:A:C2'	34:BA:11:G:O5'	2.69	0.41
34:BA:27:G:H22	34:BA:557:G:H1'	1.84	0.41
34:BA:39:G:C2	34:BA:40:C:C6	3.08	0.41
34:BA:49:U:C2'	34:BA:50:A:OP1	2.68	0.41
34:BA:152:A:H62	34:BA:169:C:H42	1.67	0.41
34:BA:250:A:O4'	34:BA:252:U:C6	2.73	0.41
34:BA:280:C:H4'	34:BA:281:G:OP2	2.18	0.41
34:BA:363:A:N7	47:BO:30:ALA:HB1	2.35	0.41
34:BA:447:G:H21	34:BA:487:A:H62	1.68	0.41
34:BA:483:C:C6	34:BA:483:C:O5'	2.74	0.41
34:BA:503:C:O2'	34:BA:510:A:N1	2.50	0.41
34:BA:542:G:H5'	39:BG:41:GLY:HA3	2.02	0.41
34:BA:544:G:H2'	34:BA:545:C:O4'	2.20	0.41
34:BA:582:U:C1'	52:BT:105:ALA:O	2.68	0.41
34:BA:600:C:P	43:BK:97:VAL:H	2.40	0.41
34:BA:604:G:C2	34:BA:605:U:C2	3.08	0.41
34:BA:627:G:O2'	34:BA:628:G:H5'	2.20	0.41
34:BA:703:G:O2'	34:BA:704:A:P	2.78	0.41
34:BA:729:A:H2'	34:BA:730:G:O5'	2.20	0.41
34:BA:786:G:C6	34:BA:787:A:C5	3.08	0.41
34:BA:819:A:O3'	34:BA:820:U:H6	2.02	0.41
34:BA:820:U:O4	34:BA:873:A:N7	2.53	0.41
34:BA:887:G:O2'	34:BA:888:G:H5'	2.20	0.41
34:BA:892:A:C2	34:BA:907:A:C4	3.08	0.41
34:BA:931:C:C4	34:BA:1387:G:C6	3.08	0.41
34:BA:996:A:N1	34:BA:997:U:C5	2.87	0.41
34:BA:1085:U:P	34:BA:1086:U:H5	2.43	0.41
34:BA:1145:C:H1'	34:BA:1146:A:H8	1.83	0.41
34:BA:1347:G:N2	34:BA:1373:G:H2'	2.36	0.41
34:BA:1499:A:C2'	34:BA:1500:A:H5'	2.50	0.41
34:BA:1503:A:O2'	34:BA:1504:G:OP1	2.38	0.41
34:BA:1534:A:C3'	34:BA:1534:A:C4	2.93	0.41
35:BB:2:C:C2'	35:BB:3:G:H5'	2.50	0.41
35:BC:60:C:O4'	35:BC:60:C:OP2	2.38	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:B1:62:G:OP1	36:B1:62:G:O4'	2.38	0.41
37:BE:46:LYS:C	37:BE:48:MET:N	2.77	0.41
37:BE:88:ALA:O	37:BE:222:ILE:HD12	2.19	0.41
37:BE:102:LEU:HD13	37:BE:102:LEU:H	1.83	0.41
38:BF:22:TRP:HB2	38:BF:23:TYR:H	1.68	0.41
38:BF:24:ALA:HB1	38:BF:28:GLN:CD	2.44	0.41
38:BF:52:LEU:O	38:BF:70:VAL:HG13	2.19	0.41
38:BF:138:VAL:C	38:BF:170:GLN:NE2	2.78	0.41
39:BG:56:VAL:O	39:BG:59:ARG:N	2.53	0.41
40:BH:11:ILE:CG2	40:BH:31:LEU:HD22	2.50	0.41
40:BH:19:MET:SD	40:BH:20:GLN:N	2.93	0.41
41:BI:47:ARG:CG	41:BI:47:ARG:NH1	2.83	0.41
42:BJ:65:ALA:HB3	42:BJ:124:LEU:HD23	1.98	0.41
43:BK:14:ARG:NH1	43:BK:14:ARG:H	2.17	0.41
43:BK:17:THR:O	43:BK:20:TYR:CD1	2.73	0.41
43:BK:63:LEU:N	43:BK:63:LEU:HD22	2.34	0.41
46:BN:44:SER:N	46:BN:47:VAL:HG21	2.35	0.41
46:BN:85:ARG:HD3	46:BN:85:ARG:HA	1.85	0.41
47:BO:109:GLY:HA3	47:BO:122:THR:HG23	2.01	0.41
48:BP:94:ARG:HD3	48:BP:94:ARG:HA	1.89	0.41
49:BQ:40:CYS:O	49:BQ:44:LEU:CB	2.64	0.41
51:BS:17:TYR:N	51:BS:17:TYR:CD1	2.88	0.41
52:BT:40:LYS:HE2	52:BT:40:LYS:HB3	1.42	0.41
52:BT:40:LYS:CE	52:BT:42:TYR:HE1	2.27	0.41
53:BU:48:GLY:N	53:BU:49:LYS:HZ1	2.18	0.41
53:BU:66:LEU:CG	53:BU:67:ALA:N	2.83	0.41
53:BU:81:PHE:O	53:BU:82:THR:CG2	2.68	0.41
54:BV:21:GLU:O	54:BV:24:ALA:CB	2.68	0.41
54:BV:38:SER:C	54:BV:70:LYS:HG2	2.45	0.41
55:BW:35:THR:HA	55:BW:38:LYS:HE3	2.02	0.41
55:BW:52:ALA:O	55:BW:55:ILE:HB	2.20	0.41
1:AB:78:A:OP1	21:AV:73:LYS:CE	2.68	0.41
1:AB:85:G:C2	1:AB:86:G:N7	2.88	0.41
2:AA:7:G:O2'	2:AA:8:A:O4'	2.26	0.41
2:AA:15:G:O2'	2:AA:16:G:H5'	2.20	0.41
2:AA:49:A:H5'	2:AA:50:U:P	2.60	0.41
2:AA:132:G:C8	2:AA:132:G:OP2	2.74	0.41
2:AA:162:U:H5'	2:AA:171:G:N3	2.35	0.41
2:AA:233:A:N6	2:AA:430:G:N1	2.68	0.41
2:AA:298:G:O6	2:AA:338:G:C4'	2.68	0.41
2:AA:315:G:H2'	2:AA:316:C:O4'	2.19	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:440:G:H3'	20:AU:3:GLN:NE2	2.35	0.41
2:AA:497:A:N1	2:AA:498:G:C2	2.89	0.41
2:AA:628:G:C2	2:AA:629:G:C6	3.09	0.41
2:AA:659:C:H2'	2:AA:660:G:C8	2.48	0.41
2:AA:684:G:C2	2:AA:775:G:C6	3.08	0.41
2:AA:699:A:H1'	2:AA:1634:A:N7	2.35	0.41
2:AA:800:A:O2'	2:AA:801:G:P	2.79	0.41
2:AA:861:A:C6	2:AA:917:A:C6	3.08	0.41
2:AA:981:A:H1'	2:AA:2037:G:C4'	2.50	0.41
2:AA:997:G:H2'	2:AA:998:C:C6	2.56	0.41
2:AA:1151:G:N2	2:AA:1152:C:C2	2.88	0.41
2:AA:1188:U:O2	2:AA:1188:U:C2'	2.61	0.41
2:AA:1198:U:C2'	2:AA:1199:U:OP2	2.69	0.41
2:AA:1227:A:OP1	25:A1:16:LYS:HE2	2.20	0.41
2:AA:1238:G:N1	2:AA:1240:U:C5	2.82	0.41
2:AA:1243:G:C2	2:AA:1244:G:C6	3.08	0.41
2:AA:1333:C:C6	2:AA:1333:C:C4'	3.04	0.41
2:AA:1353:A:C5	2:AA:1354:A:N7	2.88	0.41
2:AA:1388:G:O2'	2:AA:1524:G:O2'	2.26	0.41
2:AA:1494:A:C4	2:AA:1494:A:C3'	2.91	0.41
2:AA:1529:A:C5'	2:AA:1530:G:H8	2.33	0.41
2:AA:1566:A:N1	4:AD:212:HIS:CD2	2.89	0.41
2:AA:1574:C:C4	2:AA:1575:C:N4	2.88	0.41
2:AA:1670:C:P	2:AA:1671:U:H5	2.44	0.41
2:AA:1702:G:N1	2:AA:1703:G:C8	2.88	0.41
2:AA:1817:G:C8	2:AA:1817:G:C4'	3.03	0.41
2:AA:1827:C:C2	2:AA:1828:G:O4'	2.73	0.41
2:AA:1863:G:C2	2:AA:1864:U:C2	3.09	0.41
2:AA:1894:C:C2'	2:AA:1895:C:O5'	2.68	0.41
2:AA:1897:G:O2'	2:AA:1898:U:H5'	2.20	0.41
2:AA:1919:A:OP2	2:AA:1920:C:H5	2.03	0.41
2:AA:1935:G:N9	2:AA:1962:C:C4	2.86	0.41
2:AA:1957:C:H3'	2:AA:1958:C:H6	1.84	0.41
2:AA:1966:A:C2'	2:AA:1967:C:OP2	2.68	0.41
2:AA:1969:A:H5'	2:AA:1970:A:H5'	2.01	0.41
2:AA:2054:A:H2	2:AA:2615:U:H3	1.68	0.41
2:AA:2107:C:H6	2:AA:2107:C:P	2.42	0.41
2:AA:2146:C:O3'	2:AA:2147:G:O4'	2.37	0.41
2:AA:2218:G:H2'	2:AA:2219:G:O5'	2.20	0.41
2:AA:2276:G:C4	2:AA:2277:G:C8	3.08	0.41
2:AA:2283:C:H42	2:AA:2325:G:H1	1.67	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2312:U:C4	2:AA:2313:C:N4	2.88	0.41
2:AA:2331:G:C6	2:AA:2332:U:N3	2.88	0.41
2:AA:2336:A:H2'	2:AA:2337:G:C5'	2.39	0.41
2:AA:2409:G:C2	2:AA:2410:G:C8	3.08	0.41
2:AA:2418:A:C5	2:AA:2419:U:C4	3.09	0.41
2:AA:2442:C:C2'	2:AA:2443:C:H5'	2.50	0.41
2:AA:2466:C:H41	2:AA:2467:C:N4	2.16	0.41
2:AA:2509:G:H2'	2:AA:2510:C:H5'	1.89	0.41
2:AA:2525:G:N1	2:AA:2539:C:C4	2.89	0.41
2:AA:2574:G:C2'	2:AA:2575:C:H6	2.21	0.41
2:AA:2681:C:H1'	2:AA:2682:U:H5	1.85	0.41
2:AA:2682:U:O4	2:AA:2728:U:O4'	2.39	0.41
2:AA:2861:G:O2'	2:AA:2862:G:O5'	2.38	0.41
3:AC:10:LEU:CD2	3:AC:220:PRO:CD	2.97	0.41
3:AC:90:GLY:O	3:AC:91:ALA:O	2.37	0.41
3:AC:139:ASN:O	3:AC:144:THR:OG1	2.39	0.41
4:AD:71:ASP:C	4:AD:73:ILE:H	2.28	0.41
4:AD:97:ASP:HB3	4:AD:99:GLU:HG2	2.02	0.41
6:AF:36:ARG:C	6:AF:38:ALA:N	2.77	0.41
6:AF:44:GLN:C	6:AF:45:ASP:CG	2.89	0.41
6:AF:141:SER:OG	6:AF:144:PHE:CE1	2.71	0.41
7:AG:44:ILE:O	7:AG:83:PHE:HZ	2.03	0.41
8:AH:71:LEU:O	8:AH:74:MET:N	2.53	0.41
8:AH:88:LEU:HD21	8:AH:94:ARG:HA	2.01	0.41
9:AI:18:LEU:HD13	9:AI:44:VAL:C	2.45	0.41
9:AI:103:LYS:HB3	9:AI:114:ILE:HD13	2.02	0.41
9:AJ:18:LEU:CD1	9:AJ:45:ALA:HA	2.51	0.41
10:AK:30:LEU:C	10:AK:31:PHE:HD1	2.28	0.41
10:AK:79:ILE:CB	10:AK:145:VAL:HG22	2.33	0.41
10:AK:82:LYS:N	10:AK:89:LEU:CD2	2.83	0.41
10:AK:82:LYS:N	10:AK:89:LEU:HD23	2.34	0.41
10:AK:124:LEU:CD1	10:AK:146:THR:CA	2.99	0.41
11:AL:13:LEU:HD22	11:AL:24:VAL:CG2	2.50	0.41
12:AM:40:ASN:O	12:AM:42:GLU:HG2	2.20	0.41
12:AM:92:GLN:O	12:AM:93:ARG:C	2.63	0.41
13:AN:34:ASN:H	13:AN:62:VAL:HG21	1.84	0.41
15:AP:48:ASN:ND2	15:AP:122:PHE:CD1	2.88	0.41
15:AP:49:VAL:CG2	15:AP:121:ASP:N	2.83	0.41
18:AS:42:ARG:C	18:AS:44:ALA:H	2.28	0.41
18:AS:82:LEU:HD23	18:AS:98:LYS:HB3	1.97	0.41
19:AT:76:GLU:OE1	19:AT:76:GLU:C	2.63	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:76:GLU:O	19:AT:77:VAL:C	2.64	0.41
20:AU:51:LEU:HD21	20:AU:95:ASN:OD1	2.20	0.41
21:AV:56:VAL:O	21:AV:57:GLU:HB2	2.20	0.41
21:AV:67:LYS:CD	21:AV:93:GLU:CD	2.77	0.41
21:AV:72:ASP:HB2	21:AV:73:LYS:H	1.61	0.41
22:AW:27:LEU:HD23	22:AW:27:LEU:HA	1.61	0.41
23:AX:49:LYS:O	23:AX:50:VAL:C	2.63	0.41
24:A0:14:SER:O	24:A0:16:HIS:N	2.53	0.41
24:A0:58:GLY:CA	24:A0:80:PHE:CZ	3.00	0.41
24:A0:107:ASP:OD2	24:A0:109:ALA:N	2.46	0.41
25:A1:9:VAL:CG1	25:A1:13:ARG:NH2	2.63	0.41
25:A1:53:LYS:O	25:A1:54:LYS:C	2.63	0.41
25:A1:62:ILE:O	25:A1:66:ASN:CG	2.64	0.41
26:A2:50:ASP:OD1	26:A2:53:LYS:CE	2.63	0.41
28:A4:31:ILE:HD13	28:A4:31:ILE:N	2.35	0.41
28:A4:48:ARG:CG	28:A4:49:PHE:N	2.80	0.41
30:A6:38:LYS:HD2	30:A6:52:GLU:OE2	2.20	0.41
31:A7:20:ALA:HA	31:A7:23:LYS:CE	2.50	0.41
34:BA:19:C:C2	34:BA:20:U:C5	3.08	0.41
34:BA:27:G:N1	34:BA:557:G:N3	2.68	0.41
34:BA:37:U:C2'	34:BA:38:G:H5'	2.51	0.41
34:BA:43:C:N3	34:BA:44:G:C8	2.88	0.41
34:BA:128:G:H5'	52:BT:2:PRO:CD	2.51	0.41
34:BA:135:C:H6	34:BA:135:C:O5'	2.04	0.41
34:BA:372:C:N4	34:BA:390:C:C2	2.87	0.41
34:BA:445:G:N3	34:BA:446:G:C8	2.89	0.41
34:BA:459:G:N2	34:BA:462:G:C6	2.88	0.41
34:BA:528:C:O4'	34:BA:535:A:N1	2.54	0.41
34:BA:574:A:H8	34:BA:574:A:O5'	2.03	0.41
34:BA:595:G:C8	34:BA:641:U:O4	2.73	0.41
34:BA:673:G:N2	34:BA:674:G:N1	2.68	0.41
34:BA:781:A:N1	34:BA:802:A:N3	2.68	0.41
34:BA:812:C:HO2'	34:BA:813:U:P	2.43	0.41
34:BA:946:A:N6	34:BA:1236:A:N1	2.68	0.41
34:BA:978:A:N6	34:BA:1361:G:H21	2.17	0.41
34:BA:996:A:N1	34:BA:997:U:O4	2.52	0.41
34:BA:1003:G:C8	34:BA:1003:G:OP2	2.74	0.41
34:BA:1051:C:C4	34:BA:1052:U:O4	2.74	0.41
34:BA:1081:G:OP1	40:BH:17:ALA:C	2.63	0.41
34:BA:1140:C:C2'	34:BA:1141:C:H5'	2.51	0.41
34:BA:1185:G:C2'	34:BA:1186:G:O4'	2.59	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1201:A:O2'	34:BA:1202:G:P	2.78	0.41
34:BA:1330:U:H4'	48:BP:23:TYR:OH	2.18	0.41
34:BA:1365:G:C5	34:BA:1366:C:C5	3.08	0.41
34:BA:1367:C:OP1	44:BL:114:TYR:CA	2.61	0.41
34:BA:1379:G:C4	34:BA:1380:U:C5	3.09	0.41
34:BA:1494:G:C5	34:BA:1495:U:H5	2.38	0.41
35:BB:21:A:C6	35:BB:46:G:N2	2.88	0.41
35:BB:22:G:C2	35:BB:23:A:C5	3.08	0.41
35:BB:28:C:C2	35:BB:29:A:H8	2.23	0.41
35:BB:31:A:N3	35:BB:31:A:C2'	2.83	0.41
35:BB:35:A:H2'	35:BB:36:A:H8	1.85	0.41
36:B1:18:U:C4	36:B1:19:G:C5	3.09	0.41
36:B1:48:A:C2	36:B1:49:A:C5	3.08	0.41
37:BE:67:THR:OG1	37:BE:155:LEU:HD11	2.21	0.41
37:BE:130:ARG:HB3	37:BE:134:GLU:HG2	1.99	0.41
37:BE:131:PRO:HG2	37:BE:134:GLU:OE2	2.21	0.41
38:BF:12:LEU:HB3	38:BF:17:ASP:HA	2.03	0.41
38:BF:88:ARG:C	38:BF:91:LEU:HB3	2.39	0.41
38:BF:92:ALA:O	38:BF:95:THR:C	2.64	0.41
38:BF:138:VAL:HG13	38:BF:149:ALA:CB	2.50	0.41
38:BF:189:ALA:HB1	38:BF:196:LEU:HG	2.02	0.41
39:BG:165:MET:O	39:BG:165:MET:CE	2.68	0.41
39:BG:196:LEU:HB3	39:BG:198:VAL:HG23	2.02	0.41
40:BH:15:ARG:NH2	40:BH:26:PHE:CE2	2.88	0.41
40:BH:109:ILE:HG13	40:BH:135:THR:CG2	2.42	0.41
41:BI:57:GLN:HE21	41:BI:57:GLN:CA	2.31	0.41
41:BI:73:ASN:O	41:BI:74:ASP:C	2.62	0.41
41:BI:96:PRO:HA	53:BU:32:ARG:HG3	2.00	0.41
42:BJ:28:ASN:OD1	42:BJ:31:MET:CE	2.67	0.41
42:BJ:40:ALA:O	42:BJ:44:TYR:CD1	2.73	0.41
42:BJ:44:TYR:O	42:BJ:47:CYS:N	2.53	0.41
43:BK:112:LEU:HD22	43:BK:114:THR:HG22	2.01	0.41
44:BL:28:VAL:HG21	44:BL:33:PHE:CA	2.48	0.41
44:BL:113:LYS:O	44:BL:114:TYR:C	2.63	0.41
47:BO:79:GLU:OE1	47:BO:80:HIS:CE1	2.68	0.41
47:BO:110:VAL:O	47:BO:113:ARG:HB2	2.20	0.41
49:BQ:26:ARG:NH1	49:BQ:47:LEU:CD2	2.83	0.41
50:BR:31:LEU:O	50:BR:32:LEU:C	2.63	0.41
52:BT:17:LYS:NZ	52:BT:47:PRO:HA	2.35	0.41
53:BU:26:LEU:CD2	53:BU:39:VAL:HG13	2.51	0.41
53:BU:83:GLU:OE1	53:BU:83:GLU:HA	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BV:20:LEU:HD12	54:BV:21:GLU:CA	2.50	0.41
55:BW:53:LEU:HG	55:BW:53:LEU:H	1.57	0.41
55:BW:65:LYS:O	55:BW:68:LYS:N	2.53	0.41
55:BW:96:GLY:O	55:BW:97:ALA:HB3	2.20	0.41
56:BX:20:LYS:HE3	56:BX:21:TYR:CE1	2.55	0.41
1:AB:14:U:O2'	1:AB:107:U:C1'	2.69	0.41
1:AB:61:G:C2	1:AB:62:C:N3	2.85	0.41
1:AB:68:C:C5	1:AB:69:G:C8	3.07	0.41
1:AB:100:G:C2'	1:AB:101:A:H8	2.21	0.41
2:AA:70:G:C6	2:AA:114:U:O4	2.73	0.41
2:AA:75:G:O2'	22:AW:51:LYS:HE2	2.20	0.41
2:AA:189:G:N3	2:AA:189:G:H2'	2.36	0.41
2:AA:270(C):C:C4	2:AA:270(W):G:N2	2.83	0.41
2:AA:273:G:H2'	2:AA:273(A):G:H8	1.85	0.41
2:AA:290:G:O2'	2:AA:291:C:H5'	2.19	0.41
2:AA:326:G:C4	2:AA:327:G:N7	2.89	0.41
2:AA:330:A:O4'	2:AA:1210:A:C6	2.73	0.41
2:AA:335:C:C2'	2:AA:336:C:O5'	2.69	0.41
2:AA:338:G:P	2:AA:338:G:C3'	2.96	0.41
2:AA:426:C:O2'	2:AA:427:U:H5'	2.21	0.41
2:AA:429:A:C5	2:AA:430:G:O6	2.73	0.41
2:AA:449:A:H2	2:AA:450:G:N9	2.10	0.41
2:AA:449:A:N3	2:AA:449:A:H2'	2.35	0.41
2:AA:508:G:H4'	2:AA:509:C:C5'	2.51	0.41
2:AA:514:A:C2	2:AA:515:A:C8	3.08	0.41
2:AA:733:G:N7	2:AA:761:A:N6	2.67	0.41
2:AA:778:G:N2	2:AA:787:U:C1'	2.83	0.41
2:AA:804:A:C5'	2:AA:805:G:OP1	2.65	0.41
2:AA:817:C:O2	2:AA:839:U:C5'	2.68	0.41
2:AA:839:U:H4'	2:AA:1191:G:H21	1.85	0.41
2:AA:843:G:H2'	2:AA:844:C:H6	1.85	0.41
2:AA:854:G:N3	2:AA:855:G:C8	2.89	0.41
2:AA:864:G:HO2'	2:AA:865:C:C1'	2.33	0.41
2:AA:920:G:N3	2:AA:921:G:C8	2.89	0.41
2:AA:936:C:N3	2:AA:937:U:C4	2.89	0.41
2:AA:990:A:C5'	2:AA:1157:G:OP1	2.68	0.41
2:AA:1075:C:O2	2:AA:1075:C:C2'	2.69	0.41
2:AA:1081:U:O4	2:AA:1086:A:C4	2.73	0.41
2:AA:1134:G:O6	2:AA:1137:G:N7	2.53	0.41
2:AA:1191:G:C8	2:AA:1191:G:H3'	2.55	0.41
2:AA:1364:G:OP1	28:A4:43:TRP:HH2	2.04	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1420:U:O2	2:AA:1421:G:N7	2.53	0.41
2:AA:1472:A:N6	2:AA:1474:C:N4	2.62	0.41
2:AA:1513:C:H6	2:AA:1513:C:C3'	2.34	0.41
2:AA:1660:C:C2	2:AA:2001:A:N1	2.88	0.41
2:AA:1748:G:N3	2:AA:1749:A:C8	2.89	0.41
2:AA:1812:A:C2'	2:AA:1813:G:C5'	2.96	0.41
2:AA:1844:C:C6	2:AA:1897:G:N2	2.89	0.41
2:AA:1897:G:H2'	2:AA:1898:U:C5'	2.50	0.41
2:AA:1910:G:C6	2:AA:1911:U:N3	2.88	0.41
2:AA:1913:A:N6	2:AA:1917:U:P	2.93	0.41
2:AA:1936:A:C6	2:AA:1945:G:C5	3.08	0.41
2:AA:1959:G:C6	2:AA:1960:A:N7	2.89	0.41
2:AA:1959:G:C2	2:AA:1960:A:C8	3.09	0.41
2:AA:2016:U:O2'	2:AA:2017:U:H5'	2.20	0.41
2:AA:2033:A:O4'	2:AA:2033:A:P	2.78	0.41
2:AA:2098:U:C4	2:AA:2191:G:O6	2.73	0.41
2:AA:2262:U:OP2	27:A3:14:ARG:NE	2.51	0.41
2:AA:2265:U:O2	2:AA:2265:U:C2'	2.67	0.41
2:AA:2275:C:O2'	15:AP:103:ALA:HB1	2.18	0.41
2:AA:2291:U:O2'	2:AA:2374:C:H1'	2.20	0.41
2:AA:2309:A:H5'	2:AA:2310:A:OP2	2.19	0.41
2:AA:2311:A:H2'	2:AA:2312:U:H6	1.85	0.41
2:AA:2320:A:N1	16:AQ:13:ARG:HD2	2.36	0.41
2:AA:2373:G:O2'	2:AA:2374:C:C5'	2.68	0.41
2:AA:2430:A:C3'	2:AA:2431:U:H5'	2.50	0.41
2:AA:2456:C:C2'	2:AA:2457:U:C5'	2.98	0.41
2:AA:2544:G:C8	2:AA:2544:G:O5'	2.67	0.41
2:AA:2762:G:C5	2:AA:2763:G:C5	3.08	0.41
2:AA:2791:C:H5	2:AA:2893:G:O6	2.03	0.41
2:AA:2811:G:N1	2:AA:2891:G:N3	2.68	0.41
2:AA:2836:U:O2'	2:AA:2837:G:O5'	2.38	0.41
3:AC:72:VAL:O	3:AC:73:ARG:C	2.64	0.41
3:AC:138:PRO:C	3:AC:145:VAL:HG23	2.46	0.41
4:AD:213:LYS:HG3	4:AD:215:LYS:HB2	2.03	0.41
5:AE:44:TYR:CE1	5:AE:308:VAL:CG1	2.88	0.41
5:AE:226:HIS:O	5:AE:227:ALA:C	2.62	0.41
5:AE:271:ILE:HG12	5:AE:294:THR:CB	2.49	0.41
7:AG:136:ARG:O	7:AG:139:TYR:CD1	2.73	0.41
8:AH:32:LEU:HD12	8:AH:136:ASP:OD2	2.21	0.41
8:AH:40:MET:CA	8:AH:54:PRO:CG	2.97	0.41
8:AH:53:ARG:CB	8:AH:56:ASP:OD1	2.59	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:55:SER:OG	8:AH:60:HIS:HB2	2.20	0.41
8:AH:98:GLN:O	8:AH:99:GLY:O	2.38	0.41
9:AI:63:LEU:HD13	9:AI:66:PHE:HZ	1.82	0.41
9:AJ:3:ILE:HG22	9:AJ:4:ASP:N	2.36	0.41
10:AK:19:LYS:HE3	10:AK:20:ASN:C	2.46	0.41
10:AK:44:LEU:HA	10:AK:47:LEU:CD2	2.49	0.41
11:AL:18:ALA:CB	11:AL:39:CYS:O	2.69	0.41
12:AM:54:VAL:CA	12:AM:135:ILE:CD1	2.99	0.41
13:AN:14:SER:OG	13:AN:95:GLY:N	2.52	0.41
14:AO:56:LYS:H	14:AO:56:LYS:HG2	1.72	0.41
15:AP:32:LYS:O	15:AP:32:LYS:HG3	2.19	0.41
15:AP:57:ARG:CB	15:AP:60:ALA:CB	2.97	0.41
15:AP:58:HIS:NE2	15:AP:59:ASN:CG	2.78	0.41
16:AQ:48:VAL:CG1	16:AQ:55:ASP:OD2	2.68	0.41
16:AQ:97:VAL:O	16:AQ:98:GLU:HG2	2.21	0.41
16:AQ:110:THR:HG23	16:AQ:115:VAL:H	1.84	0.41
17:AR:35:LYS:HE2	17:AR:35:LYS:HB3	1.53	0.41
17:AR:37:GLU:O	17:AR:38:ASN:C	2.60	0.41
18:AS:19:LEU:HA	18:AS:19:LEU:HD23	1.87	0.41
18:AS:84:ARG:O	18:AS:95:ILE:CB	2.69	0.41
18:AS:99:ARG:O	18:AS:100:THR:C	2.62	0.41
19:AT:24:LEU:C	19:AT:25:GLN:OE1	2.64	0.41
19:AT:29:ASP:OD2	19:AT:30:ASP:CG	2.64	0.41
19:AT:34:LYS:NZ	19:AT:52:VAL:CG1	2.73	0.41
21:AV:46:GLN:HG3	21:AV:50:GLY:N	2.36	0.41
21:AV:70:GLN:CG	21:AV:72:ASP:CB	2.97	0.41
21:AV:160:LEU:HD12	21:AV:160:LEU:N	2.35	0.41
22:AW:51:LYS:C	22:AW:55:ARG:CD	2.93	0.41
23:AX:3:ARG:CB	23:AX:60:GLU:HG2	2.50	0.41
23:AX:19:GLN:O	23:AX:20:LYS:C	2.63	0.41
23:AX:44:ARG:O	23:AX:48:GLU:OE1	2.39	0.41
24:A0:116:LEU:HG	24:A0:116:LEU:H	1.01	0.41
25:A1:13:ARG:C	25:A1:16:LYS:HB2	2.35	0.41
25:A1:21:ALA:C	25:A1:24:PHE:CE2	2.99	0.41
26:A2:48:GLY:C	26:A2:49:GLU:OE1	2.64	0.41
29:A5:40:LYS:HZ1	29:A5:46:CYS:CB	2.30	0.41
34:BA:8:A:C5'	40:BH:121:LYS:HA	2.51	0.41
34:BA:22:G:H3'	34:BA:23:C:C6	2.49	0.41
34:BA:28:G:N1	34:BA:556:C:C4	2.89	0.41
34:BA:36:C:C5'	47:BO:122:THR:O	2.65	0.41
34:BA:37:U:H2'	34:BA:38:G:H5'	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:231:G:N1	34:BA:232:G:C5	2.88	0.41
34:BA:276:G:C5'	52:BT:15:MET:HE2	2.50	0.41
34:BA:354:G:H2'	34:BA:355:C:O5'	2.20	0.41
34:BA:354:G:C2'	34:BA:355:C:O5'	2.67	0.41
34:BA:384:G:C5	34:BA:385:C:C5	3.09	0.41
34:BA:423:G:N2	34:BA:424:G:C5	2.88	0.41
34:BA:437:U:N3	34:BA:496:A:N7	2.69	0.41
34:BA:476:G:H2'	34:BA:477:G:H8	1.84	0.41
34:BA:509:A:H5'	39:BG:54:TYR:HD2	1.84	0.41
34:BA:522:C:O4'	34:BA:536:C:H4'	2.20	0.41
34:BA:538:G:O2'	47:BO:114:LYS:NZ	2.53	0.41
34:BA:540:G:N3	34:BA:541:G:C1'	2.83	0.41
34:BA:591:U:O2	34:BA:648:A:N1	2.53	0.41
34:BA:628:G:H2'	34:BA:629:G:O4'	2.21	0.41
34:BA:707:C:C4	34:BA:708:C:C5	3.09	0.41
34:BA:722:A:O3'	34:BA:723:U:C4	2.73	0.41
34:BA:791:G:N2	34:BA:1497:G:C4'	2.84	0.41
34:BA:926:G:C4	34:BA:1505:G:N2	2.88	0.41
34:BA:938:A:C2'	34:BA:939:G:O5'	2.68	0.41
34:BA:976:G:C2'	34:BA:977:A:OP2	2.68	0.41
34:BA:982:U:H3	34:BA:1223:C:H42	1.67	0.41
34:BA:990:C:H2'	34:BA:991:U:N1	2.31	0.41
34:BA:992:U:O2'	34:BA:993:G:P	2.79	0.41
34:BA:3(A):G:C6	34:BA:1038:C:C2	3.09	0.41
34:BA:1020:U:H2'	34:BA:1021:G:H8	1.82	0.41
34:BA:1055:A:H2'	34:BA:1056:U:O5'	2.20	0.41
34:BA:1057:G:H5'	38:BF:196:LEU:HA	2.02	0.41
34:BA:1058:G:C4	34:BA:1059:C:C6	3.08	0.41
34:BA:1062:U:O4	38:BF:3:ASN:OD1	2.37	0.41
34:BA:1353:G:C6	34:BA:1370:G:C2	3.09	0.41
34:BA:1412:C:C2	34:BA:1489:G:C2	3.08	0.41
34:BA:1477:C:C4	34:BA:1478:C:C5	3.09	0.41
35:BB:8:U:C6	35:BB:8:U:C3'	3.04	0.41
35:BB:29:A:C6	35:BB:42:G:C2	3.09	0.41
35:BC:11:C:O2'	35:BC:12:U:C5'	2.64	0.41
36:B1:36:A:O5'	36:B1:36:A:C8	2.66	0.41
37:BE:72:GLY:HA3	37:BE:165:VAL:HG13	2.01	0.41
37:BE:92:TYR:CE2	37:BE:151:GLY:HA2	2.54	0.41
37:BE:114:ARG:HA	37:BE:117:GLU:OE2	2.20	0.41
38:BF:12:LEU:CD2	38:BF:16:ARG:C	2.84	0.41
39:BG:57:ARG:HG3	39:BG:202:LEU:O	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BH:57:LYS:O	40:BH:61:TYR:CD2	2.74	0.41
40:BH:78:HIS:CD2	40:BH:78:HIS:N	2.87	0.41
40:BH:151:LEU:CD2	43:BK:65:TYR:O	2.62	0.41
41:BI:16:GLN:O	41:BI:17:SER:C	2.62	0.41
41:BI:39:LYS:HB3	41:BI:39:LYS:HE3	1.60	0.41
41:BI:52:ILE:CD1	41:BI:87:ARG:HH22	2.31	0.41
43:BK:24:THR:HG22	43:BK:61:VAL:C	2.43	0.41
43:BK:91:ARG:HA	52:BT:34:LYS:HB2	2.02	0.41
43:BK:136:GLU:O	43:BK:137:VAL:CG2	2.69	0.41
44:BL:26:VAL:HA	44:BL:61:ALA:O	2.21	0.41
44:BL:43:ALA:C	44:BL:45:ALA:H	2.29	0.41
44:BL:48:GLU:CA	44:BL:51:ARG:CZ	2.98	0.41
44:BL:82:ALA:CB	44:BL:101:PHE:CD2	3.04	0.41
44:BL:103:THR:CG2	44:BL:104:ARG:N	2.83	0.41
44:BL:110:GLU:OE2	44:BL:111:ARG:O	2.39	0.41
45:BM:3:LYS:N	45:BM:3:LYS:CD	2.59	0.41
45:BM:89:ASP:O	45:BM:90:LEU:HG	2.21	0.41
46:BN:44:SER:O	46:BN:48:ILE:HG13	2.20	0.41
46:BN:92:GLU:O	46:BN:96:ARG:HB2	2.20	0.41
46:BN:96:ARG:O	46:BN:97:ALA:C	2.63	0.41
47:BO:56:ALA:HB3	47:BO:100:ILE:CD1	2.51	0.41
47:BO:69:TYR:O	47:BO:100:ILE:CD1	2.68	0.41
48:BP:20:THR:OG1	48:BP:25:ILE:HG22	2.20	0.41
48:BP:38:GLY:O	48:BP:55:ARG:NH2	2.53	0.41
50:BR:7:GLU:O	50:BR:10:LYS:N	2.53	0.41
50:BR:43:LEU:CD2	50:BR:49:ASP:HB3	2.50	0.41
51:BS:14:ASN:CA	51:BS:42:ARG:NH2	2.72	0.41
52:BT:52:LYS:O	52:BT:53:LEU:C	2.63	0.41
52:BT:96:GLN:HE22	52:BT:97:SER:CA	2.33	0.41
53:BU:34:TYR:CE1	53:BU:35:ARG:NE	2.88	0.41
54:BV:55:LYS:O	54:BV:55:LYS:HG2	2.20	0.41
1:AB:44:G:N2	1:AB:48:A:C1'	2.75	0.41
1:AB:59:A:C5	1:AB:60:C:C6	3.09	0.41
1:AB:78:A:C2'	1:AB:79:C:C5'	2.98	0.41
1:AB:105:G:O2'	1:AB:106:G:H5'	2.20	0.41
2:AA:7:G:N3	2:AA:8:A:C8	2.89	0.41
2:AA:14:A:H2	2:AA:2625:G:HO2'	1.61	0.41
2:AA:99:U:C4	20:AU:107:LYS:HD2	2.56	0.41
2:AA:155:C:O2	2:AA:162:U:OP1	2.38	0.41
2:AA:188:G:C2'	2:AA:189:G:C5'	2.97	0.41
2:AA:241:A:H1'	2:AA:243:U:N1	2.35	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:250:G:OP2	32:A8:8:LYS:HB3	2.21	0.41
2:AA:259:G:N3	2:AA:621:A:H1'	2.36	0.41
2:AA:298:G:C6	2:AA:338:G:H4'	2.56	0.41
2:AA:352:G:C8	2:AA:352:G:P	3.14	0.41
2:AA:372:G:C8	2:AA:372:G:C3'	3.03	0.41
2:AA:419:C:N3	2:AA:420:C:C5	2.88	0.41
2:AA:493:G:C2	2:AA:494:G:C8	3.09	0.41
2:AA:514:A:C4	2:AA:515:A:C8	3.08	0.41
2:AA:575:A:H2'	2:AA:576:U:C6	2.55	0.41
2:AA:657:U:C2	2:AA:658:C:C5	3.09	0.41
2:AA:663:G:N2	2:AA:940:G:P	2.81	0.41
2:AA:668:G:C4	2:AA:670:A:C8	3.08	0.41
2:AA:695:G:C4	2:AA:768:G:N1	2.88	0.41
2:AA:809:G:C2'	2:AA:810:U:H5'	2.50	0.41
2:AA:814:C:C2	2:AA:815:C:C5	3.09	0.41
2:AA:817:C:H2'	2:AA:818:G:C8	2.55	0.41
2:AA:824:A:C5	2:AA:825:C:N4	2.89	0.41
2:AA:827:U:C5	2:AA:2430:A:C5	3.09	0.41
2:AA:864:G:H22	2:AA:909:A:N6	2.18	0.41
2:AA:924:C:H2'	2:AA:925:C:C6	2.56	0.41
2:AA:993:G:C4'	26:A2:90:PHE:CE2	3.04	0.41
2:AA:1021:A:C6	2:AA:1023:U:N1	2.89	0.41
2:AA:1050:A:H2'	2:AA:1051:G:C5'	2.49	0.41
2:AA:1084:A:C8	9:AI:37:VAL:CB	2.93	0.41
2:AA:1084:A:N9	9:AI:25:LEU:CB	2.83	0.41
2:AA:1087:G:C2'	2:AA:1103:A:C2	3.03	0.41
2:AA:1097:U:C6	2:AA:1098:A:C8	3.09	0.41
2:AA:1116:C:H2'	2:AA:1117:G:C8	2.56	0.41
2:AA:1120:G:C4	2:AA:1121:C:C5	3.09	0.41
2:AA:1222:C:C4	2:AA:1227:A:N6	2.78	0.41
2:AA:1263:U:C5'	2:AA:1264:G:OP2	2.69	0.41
2:AA:1370:C:H2'	2:AA:1371:G:C5'	2.51	0.41
2:AA:1398:C:C2'	2:AA:1399:C:O5'	2.69	0.41
2:AA:1465:G:C4	2:AA:1466:G:N7	2.89	0.41
2:AA:1517:G:H2'	2:AA:1518:C:C5'	2.51	0.41
2:AA:1572:A:N6	2:AA:1573:G:H21	2.18	0.41
2:AA:1791:A:OP1	4:AD:210:LYS:HD3	2.20	0.41
2:AA:1800:C:N3	2:AA:1817:G:C2	2.88	0.41
2:AA:1831:G:H2'	2:AA:1832:C:H6	1.81	0.41
2:AA:1908:C:C2'	2:AA:1909:C:O5'	2.67	0.41
2:AA:1910:G:O6	2:AA:1911:U:C4	2.73	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1924:C:O2	2:AA:1925:C:C6	2.74	0.41
2:AA:1964:G:C2	2:AA:1967:C:C6	3.08	0.41
2:AA:1988:C:H2'	2:AA:1988:C:O2	2.21	0.41
2:AA:1995:U:C6	2:AA:1995:U:C4'	3.03	0.41
2:AA:1996:C:C6	2:AA:1996:C:C3'	3.03	0.41
2:AA:2151:G:N1	2:AA:2152:G:C4	2.88	0.41
2:AA:2199:A:OP2	2:AA:2199:A:C8	2.74	0.41
2:AA:2235:G:O2'	2:AA:2236:C:O5'	2.39	0.41
2:AA:2310:A:C4	7:AG:55:LYS:HD3	2.56	0.41
2:AA:2415:G:N1	2:AA:2416:C:C5	2.89	0.41
2:AA:2417:C:H2'	2:AA:2418:A:O4'	2.20	0.41
2:AA:2512:C:C5'	5:AE:219:VAL:CG1	2.98	0.41
2:AA:2562:U:O2'	13:AN:23:LYS:CD	2.69	0.41
2:AA:2579:C:N3	2:AA:2580:U:C6	2.89	0.41
2:AA:2654:A:C8	2:AA:2654:A:O5'	2.73	0.41
2:AA:2705:A:H2'	2:AA:2706:G:O5'	2.21	0.41
2:AA:2712:U:O2	2:AA:2712:U:O4'	2.39	0.41
2:AA:2724:C:O2	2:AA:2724:C:H2'	2.20	0.41
2:AA:2816:C:C4	2:AA:2817:G:N7	2.89	0.41
2:AA:2856:C:C2'	2:AA:2857:G:O5'	2.69	0.41
2:AA:2886:G:C2	2:AA:2887:U:C6	3.07	0.41
3:AC:89:ALA:CB	3:AC:150:GLY:CA	2.98	0.41
3:AC:103:ILE:CG2	3:AC:130:ILE:HG21	2.50	0.41
4:AD:140:VAL:HG13	4:AD:190:THR:C	2.45	0.41
5:AE:219:VAL:HG21	5:AE:235:ILE:HD11	2.02	0.41
7:AG:24:HIS:HB3	7:AG:71:ALA:O	2.20	0.41
10:AK:82:LYS:O	10:AK:89:LEU:HB3	2.21	0.41
10:AK:93:ILE:O	10:AK:120:ALA:HA	2.20	0.41
10:AK:110:LEU:HD11	10:AK:114:LYS:HZ2	1.80	0.41
11:AL:24:VAL:O	11:AL:35:ILE:HG23	2.21	0.41
12:AM:106:GLY:O	12:AM:107:ASN:OD1	2.39	0.41
13:AN:53:LYS:O	13:AN:56:GLN:CG	2.68	0.41
13:AN:63:VAL:H	13:AN:84:CYS:HG	1.63	0.41
13:AN:86:ILE:CA	13:AN:87:ILE:HD12	2.50	0.41
15:AP:63:ALA:O	15:AP:66:ASN:N	2.53	0.41
15:AP:64:ALA:CB	15:AP:142:LYS:HE2	2.31	0.41
16:AQ:41:LYS:HD2	16:AQ:42:HIS:HD2	1.81	0.41
16:AQ:114:LYS:O	16:AQ:117:ALA:CB	2.59	0.41
19:AT:12:GLU:O	19:AT:13:LYS:C	2.64	0.41
19:AT:17:ASP:CA	19:AT:20:PHE:CE1	3.04	0.41
19:AT:29:ASP:O	19:AT:30:ASP:CG	2.63	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AT:31:ARG:O	19:AT:32:ALA:C	2.62	0.41
20:AU:87:VAL:HG13	20:AU:88:PRO:CG	2.51	0.41
21:AV:67:LYS:HZ2	21:AV:67:LYS:CA	2.28	0.41
23:AX:53:LEU:C	23:AX:54:VAL:CG1	2.88	0.41
25:A1:53:LYS:HG3	25:A1:53:LYS:H	1.70	0.41
26:A2:19:VAL:CG1	26:A2:21:ARG:NH1	2.83	0.41
26:A2:20:ILE:HD13	26:A2:67:LYS:NZ	2.35	0.41
27:A3:29:GLU:O	27:A3:31:VAL:N	2.52	0.41
27:A3:35:ASN:CA	27:A3:68:VAL:CG2	2.93	0.41
29:A5:45:ILE:N	29:A5:52:TYR:CE1	2.87	0.41
31:A7:14:LYS:O	31:A7:16:HIS:O	2.39	0.41
32:A8:4:MET:HB2	32:A8:5:LYS:H	1.73	0.41
33:A9:11:CYS:SG	33:A9:13:ASN:C	3.02	0.41
34:BA:43:C:O2	34:BA:44:G:C8	2.73	0.41
34:BA:51:A:N6	34:BA:116:A:C4	2.88	0.41
34:BA:51:A:N6	34:BA:116:A:C5	2.89	0.41
34:BA:175:C:C2	34:BA:176:C:C5	3.08	0.41
34:BA:188:C:C2'	34:BA:189:G:C5'	2.96	0.41
34:BA:413:G:H22	34:BA:428:G:C1'	2.33	0.41
34:BA:428:G:O2'	34:BA:429:U:OP2	2.31	0.41
34:BA:429:U:C3'	39:BG:22:LYS:HZ2	2.33	0.41
34:BA:507:C:P	34:BA:508:C:H3'	2.61	0.41
34:BA:529:G:O6	47:BO:49:ASN:HA	2.19	0.41
34:BA:689:C:O2	34:BA:689:C:C2'	2.64	0.41
34:BA:774:G:C5	34:BA:775:G:N7	2.88	0.41
34:BA:853:G:C2	34:BA:854:G:C8	3.09	0.41
34:BA:890:G:C6	34:BA:906:G:N7	2.88	0.41
34:BA:891:U:C5	34:BA:892:A:N7	2.88	0.41
34:BA:927:G:O6	34:BA:1391:U:O4	2.39	0.41
34:BA:958:A:H5'	54:BV:55:LYS:HZ2	1.86	0.41
34:BA:958:A:C6	34:BA:959:A:C6	3.09	0.41
34:BA:999:C:C2	34:BA:1042:G:N1	2.80	0.41
34:BA:1010:G:C2	34:BA:1011:G:C8	3.08	0.41
34:BA:1090:U:C2'	34:BA:1091:U:O5'	2.68	0.41
34:BA:1133:G:O2'	34:BA:1134:G:H5'	2.20	0.41
34:BA:1137:C:C4'	34:BA:1138:G:C2	2.97	0.41
34:BA:1244:C:O2'	34:BA:1245:A:H5'	2.20	0.41
34:BA:1250:A:H5'	44:BL:67:GLY:O	2.20	0.41
34:BA:1340:A:H4'	35:BC:31:A:O2'	2.20	0.41
34:BA:1353:G:H5'	56:BX:13:ILE:CG2	2.50	0.41
34:BA:1370:G:N2	34:BA:1371:G:C5	2.88	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1437:C:C6	34:BA:1437:C:OP2	2.74	0.41
34:BA:1541:U:H2'	34:BA:1542:U:O3'	2.21	0.41
35:BB:38:A:H3'	35:BB:39:U:C6	2.56	0.41
36:B1:60:A:N3	36:B1:61:U:C6	2.89	0.41
37:BE:16:HIS:NE2	37:BE:213:LEU:HB3	2.34	0.41
37:BE:74:LYS:O	37:BE:76:GLN:N	2.53	0.41
37:BE:80:ILE:HD13	37:BE:211:ILE:HG22	2.03	0.41
37:BE:93:VAL:HG21	37:BE:101:MET:CE	2.33	0.41
38:BF:24:ALA:CB	38:BF:28:GLN:HE22	2.33	0.41
38:BF:53:ALA:CB	38:BF:115:LEU:HD21	2.41	0.41
38:BF:86:VAL:O	38:BF:86:VAL:HG12	2.20	0.41
38:BF:179:ARG:C	38:BF:179:ARG:HD2	2.46	0.41
39:BG:58:LEU:HD21	39:BG:62:GLN:CG	2.47	0.41
40:BH:15:ARG:NE	40:BH:26:PHE:CE2	2.88	0.41
40:BH:109:ILE:HG22	40:BH:110:LEU:HG	2.02	0.41
41:BI:33:TYR:CE2	41:BI:75:LEU:CA	3.03	0.41
41:BI:87:ARG:NH1	41:BI:87:ARG:CG	2.84	0.41
42:BJ:45:ASP:O	42:BJ:49:ILE:CD1	2.69	0.41
42:BJ:111:ARG:CD	42:BJ:123:GLU:HB2	2.44	0.41
43:BK:28:ALA:HB2	43:BK:58:TYR:C	2.46	0.41
43:BK:110:ALA:O	43:BK:120:THR:HA	2.21	0.41
44:BL:37:PHE:CZ	44:BL:74:ILE:HG23	2.55	0.41
45:BM:57:LYS:C	45:BM:58:ASP:CG	2.88	0.41
46:BN:46:GLY:C	46:BN:48:ILE:N	2.78	0.41
47:BO:82:VAL:CG1	47:BO:83:VAL:H	2.24	0.41
48:BP:2:ALA:N	48:BP:4:ILE:HG13	2.35	0.41
48:BP:36:LYS:HE2	48:BP:59:TYR:HE1	1.86	0.41
49:BQ:6:LEU:CD2	49:BQ:8:GLU:OE2	2.67	0.41
53:BU:33:ASP:C	53:BU:35:ARG:N	2.79	0.41
54:BV:38:SER:O	54:BV:70:LYS:CB	2.69	0.41
54:BV:43:GLU:O	54:BV:47:HIS:NE2	2.53	0.41
55:BW:24:LEU:O	55:BW:27:LYS:HB3	2.20	0.41
55:BW:42:GLN:O	55:BW:43:LEU:C	2.63	0.41
55:BW:50:GLU:HG2	55:BW:100:ILE:HD11	2.02	0.41
1:AB:1:U:H6	1:AB:1:U:H3'	1.83	0.41
1:AB:6:C:C2	1:AB:115:G:C2	3.09	0.41
1:AB:54:G:C4	1:AB:55:U:C6	3.08	0.41
1:AB:61:G:H2'	1:AB:62:C:H6	1.82	0.41
1:AB:113:C:O2'	16:AQ:56:ASP:OD2	2.38	0.41
2:AA:7:G:OP1	12:AM:6:PHE:CE2	2.74	0.41
2:AA:68:G:N2	2:AA:74:A:O4'	2.54	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:71:A:OP2	2:AA:113:G:H4'	2.20	0.41
2:AA:72:U:C4	2:AA:112:U:O4'	2.73	0.41
2:AA:76:C:H4'	22:AW:55:ARG:HE	1.85	0.41
2:AA:88:G:C2	2:AA:89:G:C8	3.08	0.41
2:AA:199:A:N1	2:AA:2433:A:C8	2.89	0.41
2:AA:239:U:C2	2:AA:259:G:N1	2.89	0.41
2:AA:294:A:H2'	2:AA:295:G:H5''	1.98	0.41
2:AA:323:G:N1	2:AA:333:G:C4	2.89	0.41
2:AA:352:G:C6	2:AA:353:G:N7	2.88	0.41
2:AA:372:G:O2'	28:A4:63:PHE:CE2	2.71	0.41
2:AA:393:C:C2'	2:AA:394:A:H5'	2.50	0.41
2:AA:396:G:O2'	28:A4:39:VAL:HG13	2.19	0.41
2:AA:398:G:OP2	28:A4:59:PHE:CE2	2.74	0.41
2:AA:410:G:H1	2:AA:417:C:N4	2.19	0.41
2:AA:417:C:O2	2:AA:2407:G:C2	2.74	0.41
2:AA:443:A:H2	2:AA:1245:G:N2	2.19	0.41
2:AA:493:G:C2	2:AA:494:G:C5	3.08	0.41
2:AA:530:G:O6	2:AA:2021:C:C3'	2.64	0.41
2:AA:531:C:C2'	2:AA:532:A:OP1	2.69	0.41
2:AA:543:C:HO2'	2:AA:544:C:P	2.44	0.41
2:AA:583:G:C5	2:AA:584:C:C5	3.09	0.41
2:AA:592:G:O2'	32:A8:3:LYS:CG	2.69	0.41
2:AA:629:G:C6	2:AA:630:G:C6	3.08	0.41
2:AA:666:G:O2'	2:AA:667:U:C5'	2.68	0.41
2:AA:673:C:C4'	6:AF:82:GLN:CD	2.94	0.41
2:AA:713:G:C6	2:AA:714:U:C4	3.08	0.41
2:AA:762:U:H5''	2:AA:763:G:P	2.61	0.41
2:AA:769:G:N1	2:AA:770:G:N7	2.68	0.41
2:AA:808:G:O2'	2:AA:809:G:H5'	2.20	0.41
2:AA:908:C:H2'	2:AA:909:A:H5'	2.02	0.41
2:AA:1006:C:H4'	12:AM:28:GLU:OE2	2.21	0.41
2:AA:1066:U:C2	2:AA:1069:A:P	3.13	0.41
2:AA:1097:U:O2	2:AA:1098:A:O4'	2.38	0.41
2:AA:1099:G:C4	2:AA:1100:C:C5	3.09	0.41
2:AA:1102:C:C2	2:AA:1103:A:N7	2.88	0.41
2:AA:1143:A:N3	2:AA:1144:G:N9	2.69	0.41
2:AA:1168:G:N1	2:AA:1182:A:C6	2.88	0.41
2:AA:1203:G:N7	2:AA:1207:C:C2	2.89	0.41
2:AA:1224:G:C2'	2:AA:1225:C:H5'	2.50	0.41
2:AA:1287:A:C2	2:AA:1648:C:O2'	2.67	0.41
2:AA:1311:G:H3'	2:AA:1311:G:C8	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1315:C:O2'	2:AA:1392:A:C1'	2.68	0.41
2:AA:1334:G:O2'	2:AA:1335:U:O5'	2.38	0.41
2:AA:1356:G:N2	2:AA:1357:U:H1'	2.35	0.41
2:AA:1467:C:OP1	2:AA:1467:C:C4'	2.69	0.41
2:AA:1529:A:C3'	2:AA:1530:G:O4'	2.68	0.41
2:AA:1658:C:O5'	2:AA:1659:U:OP2	2.39	0.41
2:AA:1707:G:C2	2:AA:1756:G:N2	2.89	0.41
2:AA:1762:A:C5'	2:AA:1763:G:OP2	2.69	0.41
2:AA:1789:A:C6	2:AA:1790:C:C5	3.08	0.41
2:AA:1803:A:C8	2:AA:1803:A:C3'	3.03	0.41
2:AA:1841:U:C4	2:AA:1842:G:O6	2.73	0.41
2:AA:1845:G:C2'	2:AA:1846:G:C5'	2.99	0.41
2:AA:1845:G:H1'	2:AA:1896:G:N2	2.36	0.41
2:AA:1846:G:C2	2:AA:1895:C:N3	2.88	0.41
2:AA:1904:G:N2	2:AA:1905:C:H1'	2.35	0.41
2:AA:1905:C:C4	2:AA:1930:G:C2	3.08	0.41
2:AA:1930:G:H2'	2:AA:1968:G:C6	2.56	0.41
2:AA:2032:G:C6	2:AA:2572:A:N3	2.88	0.41
2:AA:2062:A:C2'	2:AA:2063:C:OP1	2.69	0.41
2:AA:2068:U:C2	2:AA:2430:A:N1	2.87	0.41
2:AA:2105:C:C2	2:AA:2106:G:C8	3.09	0.41
2:AA:2106:G:C6	2:AA:2184:G:O6	2.73	0.41
2:AA:2177:C:C2	2:AA:2178:C:C5	3.09	0.41
2:AA:2195:C:N3	2:AA:2196:C:C6	2.88	0.41
2:AA:2245:U:H1'	2:AA:2435:A:H3'	2.03	0.41
2:AA:2262:U:H2'	2:AA:2263:C:C5'	2.51	0.41
2:AA:2280:G:O6	2:AA:2281:C:N4	2.54	0.41
2:AA:2319:G:H4'	16:AQ:9:PRO:N	2.36	0.41
2:AA:2327:A:C6	2:AA:2388:A:C2	3.09	0.41
2:AA:2371:G:C2	2:AA:2372:G:C4	3.08	0.41
2:AA:2421:G:OP1	30:A6:2:ALA:O	2.39	0.41
2:AA:2484:G:H2'	2:AA:2484:G:N3	2.35	0.41
2:AA:2516:G:C6	2:AA:2517:C:N4	2.88	0.41
2:AA:2541:A:C2	2:AA:2765:A:N6	2.58	0.41
2:AA:2717:G:C2'	2:AA:2718:G:O5'	2.69	0.41
2:AA:2758:A:OP2	2:AA:2758:A:C3'	2.69	0.41
2:AA:2767:C:O2'	2:AA:2768:C:H5'	2.21	0.41
2:AA:2791:C:C4	2:AA:2805:G:O6	2.73	0.41
2:AA:2795:G:O2'	2:AA:2797:U:O5'	2.38	0.41
2:AA:2810:A:N6	2:AA:2891:G:N3	2.68	0.41
2:AA:2837:G:C6	2:AA:2882:A:C6	3.08	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2837:G:N1	2:AA:2882:A:C6	2.88	0.41
2:AA:2839:G:C5	2:AA:2840:C:C4	3.08	0.41
3:AC:19:ILE:HG21	3:AC:225:ASN:HB2	2.02	0.41
3:AC:133:PRO:HA	3:AC:172:HIS:CE1	2.53	0.41
4:AD:129:LEU:C	4:AD:188:ARG:HG2	2.45	0.41
4:AD:166:LYS:O	4:AD:167:GLU:CD	2.63	0.41
4:AD:227:VAL:O	4:AD:227:VAL:HG13	2.17	0.41
5:AE:172:ASP:O	5:AE:175:ASP:N	2.53	0.41
5:AE:200:ASP:O	5:AE:311:PHE:CA	2.61	0.41
5:AE:304:ASP:OD1	5:AE:307:LEU:HD11	2.19	0.41
6:AF:219:ASN:ND2	6:AF:222:ASP:OD1	2.54	0.41
6:AF:225:PRO:CG	6:AF:231:ARG:NH2	2.84	0.41
7:AG:10:PHE:C	7:AG:12:GLU:H	2.28	0.41
9:AI:80:ILE:HD11	9:AI:117:LYS:HD2	2.02	0.41
10:AK:78:THR:OG1	10:AK:78:THR:O	2.24	0.41
11:AL:14:PRO:CG	11:AL:17:LYS:HD2	2.50	0.41
11:AL:25:GLY:O	11:AL:35:ILE:HD11	2.21	0.41
12:AM:44:ALA:C	12:AM:132:LEU:CB	2.61	0.41
13:AN:34:ASN:CA	13:AN:35:ILE:HD12	2.51	0.41
13:AN:109:LYS:O	13:AN:110:ASP:CB	2.68	0.41
14:AO:64:ILE:HG22	14:AO:108:VAL:CG2	2.44	0.41
14:AO:71:GLU:CG	14:AO:72:ASN:N	2.76	0.41
14:AO:71:GLU:C	14:AO:73:VAL:N	2.76	0.41
15:AP:67:ALA:HA	15:AP:70:ARG:HH11	1.86	0.41
18:AS:23:LEU:CD1	29:A5:26:THR:N	2.84	0.41
18:AS:82:LEU:CG	18:AS:98:LYS:HB2	2.50	0.41
19:AT:11:THR:N	19:AT:14:ALA:CB	2.60	0.41
19:AT:19:ASP:OD1	19:AT:20:PHE:CD2	2.74	0.41
19:AT:19:ASP:CG	19:AT:20:PHE:N	2.77	0.41
20:AU:48:VAL:CG1	20:AU:49:GLU:H	2.33	0.41
21:AV:35:ASP:OD1	21:AV:35:ASP:C	2.63	0.41
22:AW:15:GLU:O	22:AW:18:ALA:N	2.54	0.41
22:AW:22:ASP:O	22:AW:25:THR:N	2.53	0.41
22:AW:31:ARG:C	22:AW:34:GLN:N	2.75	0.41
24:A0:25:ALA:CA	24:A0:48:VAL:HG22	2.50	0.41
24:A0:26:LYS:HE2	24:A0:70:LEU:HA	2.02	0.41
25:A1:15:LYS:O	25:A1:15:LYS:HG2	2.20	0.41
25:A1:22:LYS:H	25:A1:24:PHE:HE2	1.68	0.41
28:A4:5:LEU:N	28:A4:5:LEU:CD2	2.67	0.41
30:A6:28:ARG:CG	30:A6:30:ASN:CB	2.98	0.41
34:BA:149:A:N1	34:BA:172:A:N6	2.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:198:G:C6	34:BA:220:G:N3	2.89	0.41
34:BA:218:C:H5'	34:BA:461:C:H41	1.86	0.41
34:BA:224:C:C2	34:BA:225:C:C5	3.09	0.41
34:BA:225:C:C2'	34:BA:225:C:O2	2.67	0.41
34:BA:258:G:C5	34:BA:259:G:N7	2.89	0.41
34:BA:310:G:C5	34:BA:311:C:C4	3.09	0.41
34:BA:361:G:C6	34:BA:362:G:C2	3.09	0.41
34:BA:406:G:C2	34:BA:407:G:C5	3.08	0.41
34:BA:445:G:N2	34:BA:489:C:N3	2.54	0.41
34:BA:486:U:C2	34:BA:487:A:C8	3.09	0.41
34:BA:529:G:H3'	34:BA:529:G:H8	1.85	0.41
34:BA:572:A:O5'	34:BA:573:A:P	2.79	0.41
34:BA:574:A:H5''	34:BA:575:G:OP2	2.20	0.41
34:BA:655:A:C2	34:BA:754:C:N4	2.88	0.41
34:BA:665:A:C2	34:BA:732:C:C2	3.08	0.41
34:BA:678:U:O4	34:BA:712:A:N1	2.54	0.41
34:BA:704:A:N6	46:BN:42:TRP:HZ2	2.19	0.41
34:BA:715:A:H5'	34:BA:777:A:N6	2.36	0.41
34:BA:764:C:H3'	34:BA:765:G:C8	2.36	0.41
34:BA:826:C:C5'	43:BK:12:ARG:HG2	2.51	0.41
34:BA:968:A:H5''	34:BA:969:A:P	2.55	0.41
34:BA:1057:G:C4	34:BA:1204:A:C2	3.09	0.41
34:BA:1240:U:OP1	42:BJ:119:ARG:NH2	2.50	0.41
34:BA:1271:G:H2'	34:BA:1272:G:O5'	2.20	0.41
34:BA:1419:G:C6	34:BA:1482:G:C2	3.09	0.41
34:BA:1464:G:N3	34:BA:1465:C:C5	2.89	0.41
34:BA:1528:U:H2'	34:BA:1530:G:C5'	2.50	0.41
35:BB:51:G:C6	35:BB:52:U:C4	3.08	0.41
37:BE:25:ASN:HB2	37:BE:191:ASP:O	2.20	0.41
37:BE:28:PHE:HD1	37:BE:31:TYR:HB2	1.85	0.41
37:BE:57:PHE:HD2	37:BE:57:PHE:C	2.29	0.41
38:BF:184:TYR:CG	38:BF:185:GLY:N	2.85	0.41
38:BF:184:TYR:CD1	38:BF:185:GLY:N	2.88	0.41
39:BG:64:LEU:O	39:BG:65:ARG:C	2.63	0.41
41:BI:24:GLU:O	41:BI:25:ILE:C	2.63	0.41
41:BI:80:ARG:CZ	41:BI:88:VAL:HG11	2.51	0.41
41:BI:97:PHE:HD2	53:BU:31:LEU:HB2	1.85	0.41
42:BJ:37:ASN:O	42:BJ:38:LEU:C	2.62	0.41
43:BK:23:SER:HA	43:BK:62:TYR:CD1	2.55	0.41
43:BK:74:PRO:O	43:BK:75:ARG:C	2.63	0.41
43:BK:87:SER:OG	43:BK:93:VAL:HG23	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:24:VAL:O	45:BM:28:ARG:HG3	2.21	0.41
45:BM:54:PHE:CE1	45:BM:55:LYS:CG	3.03	0.41
45:BM:86:MET:O	45:BM:86:MET:HG3	2.19	0.41
47:BO:7:ILE:CG2	52:BT:34:LYS:HE2	2.51	0.41
47:BO:68:ALA:CB	47:BO:98:TYR:O	2.69	0.41
47:BO:118:SER:O	47:BO:121:GLY:HA2	2.20	0.41
48:BP:23:TYR:CE2	48:BP:70:LEU:CD2	3.03	0.41
51:BS:14:ASN:HA	51:BS:42:ARG:CZ	2.49	0.41
52:BT:11:VAL:O	52:BT:12:SER:CB	2.63	0.41
53:BU:66:LEU:CD1	53:BU:67:ALA:H	2.26	0.41
53:BU:81:PHE:O	53:BU:82:THR:CB	2.67	0.41
54:BV:36:ARG:HB2	54:BV:72:GLY:H	1.85	0.41
55:BW:50:GLU:HG3	55:BW:100:ILE:HG12	2.02	0.41
1:AB:43:C:H3'	1:AB:44:G:H5'	2.02	0.41
1:AB:46:A:C2'	1:AB:47:C:O5'	2.69	0.41
1:AB:75:G:H1'	21:AV:22:VAL:HG22	2.03	0.41
2:AA:26:G:N2	2:AA:513:A:C5	2.89	0.41
2:AA:49:A:C5'	2:AA:50:U:OP1	2.68	0.41
2:AA:59:U:N1	2:AA:73:A:C6	2.89	0.41
2:AA:119:A:O2'	2:AA:120:U:O5'	2.38	0.41
2:AA:126:A:N7	2:AA:127:A:N3	2.67	0.41
2:AA:163:U:C6	2:AA:164:U:C4	3.08	0.41
2:AA:181:A:C6	2:AA:182:A:N6	2.88	0.41
2:AA:222:A:N1	2:AA:224:G:N3	2.68	0.41
2:AA:238:C:O2	2:AA:238:C:C2'	2.69	0.41
2:AA:270:A:N6	2:AA:424:G:C8	2.88	0.41
2:AA:444:C:HO2'	2:AA:445:C:H5'	1.77	0.41
2:AA:458:G:H3'	31:A7:38:GLY:O	2.21	0.41
2:AA:461:C:O2	2:AA:461:C:C2'	2.65	0.41
2:AA:463:G:C2	2:AA:467:G:C4	3.09	0.41
2:AA:467:G:O3'	2:AA:797:C:H5'	2.21	0.41
2:AA:534:U:H2'	2:AA:535:C:C6	2.55	0.41
2:AA:604:G:N2	2:AA:624:C:N3	2.69	0.41
2:AA:622:G:N1	2:AA:623:G:C2	2.89	0.41
2:AA:628:G:H8	2:AA:628:G:OP2	2.03	0.41
2:AA:650:C:O2	2:AA:650:C:C2'	2.68	0.41
2:AA:684:G:C3'	2:AA:684:G:C8	3.04	0.41
2:AA:686:G:H8	31:A7:8:ASN:ND2	2.18	0.41
2:AA:709:U:H6	2:AA:709:U:O5'	2.04	0.41
2:AA:956:G:C2	2:AA:962:G:O6	2.73	0.41
2:AA:974:G:C5	26:A2:80:TYR:CZ	3.09	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1027:A:H2'	2:AA:1028:A:C8	2.56	0.41
2:AA:1055:G:C4	9:AI:28:LYS:NZ	2.74	0.41
2:AA:1069:A:N7	2:AA:1073:A:C5	2.89	0.41
2:AA:1084:A:C5'	9:AI:35:ALA:O	2.62	0.41
2:AA:1143:A:C2	2:AA:1144:G:N9	2.89	0.41
2:AA:1254:A:C8	2:AA:1254:A:C3'	3.03	0.41
2:AA:1276:A:N1	2:AA:1294:U:O4	2.54	0.41
2:AA:1283:G:H2'	2:AA:1285:G:N7	2.35	0.41
2:AA:1389:G:N2	2:AA:1390:U:H1'	2.35	0.41
2:AA:1491:G:O5'	2:AA:1491:G:H8	2.03	0.41
2:AA:1493:C:O2	2:AA:1493:C:C2'	2.69	0.41
2:AA:1624:G:C4	2:AA:1625:C:N4	2.89	0.41
2:AA:1655:A:C5	2:AA:1656:C:C2	3.08	0.41
2:AA:1658:C:P	5:AE:230:GLY:O	2.79	0.41
2:AA:1706:U:O2	2:AA:1706:U:C2'	2.69	0.41
2:AA:1806:C:C2'	2:AA:1807:G:H5'	2.44	0.41
2:AA:1809:A:H4'	2:AA:1809:A:OP1	2.20	0.41
2:AA:1811:G:O2'	2:AA:1812:A:C5'	2.69	0.41
2:AA:1819:A:C8	4:AD:177:SER:CB	3.04	0.41
2:AA:1835:G:C2	2:AA:1836:C:C6	3.09	0.41
2:AA:1906:G:C6	2:AA:1907:G:O6	2.74	0.41
2:AA:1923:U:OP1	35:BC:25:C:O4'	2.39	0.41
2:AA:1935:G:C2'	2:AA:1936:A:OP2	2.69	0.41
2:AA:1944:U:C1'	2:AA:1955:U:H6	2.33	0.41
2:AA:1945:G:C2	2:AA:1946:U:C4	3.08	0.41
2:AA:2042:A:C2'	2:AA:2043:C:OP2	2.68	0.41
2:AA:2092:U:O2	2:AA:2092:U:C2'	2.67	0.41
2:AA:2192:G:N1	2:AA:2193:G:C5	2.89	0.41
2:AA:2233:U:H2'	2:AA:2234:G:O4'	2.20	0.41
2:AA:2263:C:H6	2:AA:2263:C:O5'	2.03	0.41
2:AA:2283:C:C4	2:AA:2284:C:H1'	2.50	0.41
2:AA:2287:A:N7	2:AA:2289:G:C5	2.89	0.41
2:AA:2367:G:C2'	2:AA:2368:C:H5'	2.50	0.41
2:AA:2438:U:O3'	2:AA:2440:C:OP1	2.38	0.41
2:AA:2528:U:C1'	2:AA:2536:G:N2	2.83	0.41
2:AA:2615:U:H2'	2:AA:2616:C:O5'	2.21	0.41
2:AA:2799:A:O2'	2:AA:2802:G:N3	2.49	0.41
2:AA:2815:C:H5'	29:A5:29:ASN:HD22	1.77	0.41
2:AA:2816:C:N3	2:AA:2817:G:N7	2.69	0.41
2:AA:2832:U:O2	2:AA:2832:U:H2'	2.20	0.41
2:AA:2853:C:H2'	2:AA:2854:G:C5'	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2875:C:C4	2:AA:2876:G:C5	3.08	0.41
3:AC:132:GLY:O	3:AC:172:HIS:HE1	2.03	0.41
3:AC:163:PHE:CD2	3:AC:192:PHE:CE1	3.08	0.41
4:AD:92:LEU:CD1	4:AD:102:TYR:CD2	3.03	0.41
6:AF:46:TYR:C	6:AF:92:PRO:HB2	2.45	0.41
6:AF:149:LYS:N	6:AF:152:GLU:CD	2.78	0.41
6:AF:198:ASP:O	6:AF:199:GLU:HB2	2.20	0.41
7:AG:14:ARG:CA	7:AG:137:PRO:HG3	2.50	0.41
7:AG:28:GLY:C	7:AG:69:ILE:CD1	2.94	0.41
7:AG:56:ARG:HD2	7:AG:65:GLU:HG3	2.02	0.41
8:AH:151:ARG:HA	8:AH:152:PRO:HD2	1.83	0.41
9:AI:92:VAL:O	9:AI:95:ALA:CB	2.69	0.41
9:AJ:52:ALA:CB	9:AJ:58:GLU:CD	2.94	0.41
9:AJ:61:VAL:HG22	9:AJ:115:LYS:CE	2.51	0.41
9:AJ:102:ILE:HD13	9:AJ:118:LEU:HD13	2.02	0.41
10:AK:78:THR:HG22	10:AK:144:HIS:HE1	1.84	0.41
10:AK:88:ARG:CA	10:AK:122:ARG:HG2	2.50	0.41
12:AM:12:VAL:HG12	12:AM:13:ASP:H	1.83	0.41
12:AM:47:THR:C	12:AM:48:GLY:O	2.63	0.41
13:AN:3:GLN:HG2	13:AN:4:GLN:HB2	2.03	0.41
13:AN:78:ARG:C	13:AN:79:PHE:HD2	2.28	0.41
13:AN:116:SER:O	13:AN:117:LEU:C	2.64	0.41
14:AO:60:GLU:O	14:AO:61:ALA:CB	2.67	0.41
14:AO:65:ASP:HB3	14:AO:109:LEU:H	1.85	0.41
14:AO:94:ARG:NH2	14:AO:118:LEU:CB	2.78	0.41
15:AP:11:LYS:HD2	15:AP:91:HIS:HD2	1.73	0.41
15:AP:153:PRO:O	15:AP:154:ALA:CB	2.67	0.41
16:AQ:35:VAL:HG22	16:AQ:103:ASP:CB	2.51	0.41
17:AR:21:PHE:O	17:AR:29:THR:C	2.64	0.41
18:AS:31:GLU:O	18:AS:32:ALA:C	2.61	0.41
18:AS:35:ILE:O	18:AS:39:THR:CB	2.69	0.41
18:AS:52:GLU:OE2	18:AS:52:GLU:HA	2.21	0.41
19:AT:39:ASP:O	19:AT:43:GLU:CD	2.64	0.41
19:AT:56:ASN:CG	19:AT:62:LYS:NZ	2.79	0.41
20:AU:66:ASP:OD2	20:AU:73:HIS:N	2.54	0.41
21:AV:37:LYS:N	21:AV:40:ASP:CG	2.79	0.41
21:AV:39:PHE:HA	21:AV:43:PHE:CD2	2.55	0.41
21:AV:81:VAL:CG1	21:AV:82:ASP:H	2.31	0.41
21:AV:123:VAL:HB	21:AV:159:THR:HG23	2.03	0.41
24:A0:14:SER:OG	24:A0:15:SER:N	2.48	0.41
24:A0:109:ALA:HA	24:A0:110:PRO:HD2	1.49	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A1:47:TYR:OH	26:A2:75:LYS:C	2.64	0.41
25:A1:64:ARG:NH1	25:A1:97:ASP:OD1	2.54	0.41
26:A2:11:GLN:NE2	26:A2:22:VAL:CG2	2.84	0.41
26:A2:59:GLU:OE1	26:A2:99:GLN:CA	2.65	0.41
26:A2:65:ARG:O	26:A2:93:ILE:CA	2.67	0.41
26:A2:65:ARG:O	26:A2:93:ILE:HG23	2.20	0.41
27:A3:39:ARG:CG	27:A3:39:ARG:HH11	2.34	0.41
27:A3:39:ARG:C	27:A3:40:GLN:O	2.63	0.41
27:A3:45:PHE:HD2	27:A3:80:SER:HA	1.86	0.41
28:A4:4:ASP:OD1	28:A4:11:PRO:CD	2.69	0.41
32:A8:16:ILE:HG23	32:A8:21:LYS:O	2.20	0.41
34:BA:48:C:HO2'	34:BA:49:U:P	2.35	0.41
34:BA:53:A:C2	34:BA:54:C:C2	3.09	0.41
34:BA:59:A:C5	34:BA:354:G:C6	3.08	0.41
34:BA:77:G:C2	34:BA:78:G:C4	3.09	0.41
34:BA:192:U:C4	34:BA:193:C:N4	2.89	0.41
34:BA:204:U:H4'	34:BA:216:G:O5'	2.18	0.41
34:BA:265:G:H5'	52:BT:64:PRO:HB2	2.03	0.41
34:BA:320:C:N4	34:BA:333:G:C6	2.86	0.41
34:BA:327:A:C2	34:BA:329:A:C4	3.08	0.41
34:BA:373:A:C2	34:BA:482:A:N6	2.89	0.41
34:BA:374:A:C6	34:BA:375:U:C4	3.09	0.41
34:BA:445:G:C6	34:BA:490:G:N1	2.89	0.41
34:BA:463:A:H4'	51:BS:80:PHE:O	2.20	0.41
34:BA:565:U:C6	34:BA:566:G:N7	2.89	0.41
34:BA:577:G:C4	34:BA:765:G:N2	2.88	0.41
34:BA:582:U:H5'	50:BR:64:ARG:CZ	2.47	0.41
34:BA:637:G:H2'	34:BA:638:G:O4'	2.20	0.41
34:BA:676:A:N1	34:BA:715:A:H2	2.18	0.41
34:BA:676:A:C2	34:BA:715:A:H2	2.39	0.41
34:BA:748:C:H2'	34:BA:749:C:OP2	2.20	0.41
34:BA:920:U:H2'	34:BA:921:U:H6	1.85	0.41
34:BA:947:G:C4	34:BA:948:C:C6	3.08	0.41
34:BA:977:A:O2'	34:BA:979:C:OP2	2.37	0.41
34:BA:1015:A:C2'	34:BA:1016:A:O5'	2.69	0.41
34:BA:1030:C:N4	34:BA:30(A):G:O6	2.53	0.41
34:BA:1069:C:C5	34:BA:1094:G:O6	2.74	0.41
34:BA:1092:A:N3	34:BA:1183:A:C2	2.88	0.41
34:BA:1167:A:OP1	34:BA:1167:A:H8	2.01	0.41
34:BA:1257:U:O2'	34:BA:1258:G:N7	2.51	0.41
34:BA:1308:U:C6	48:BP:99:ARG:NH1	2.89	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1327:C:C5'	56:BX:20:LYS:HB3	2.50	0.41
34:BA:1381:U:H2'	34:BA:1382:C:C5'	2.50	0.41
34:BA:1383:C:O2'	34:BA:1384:C:H5'	2.20	0.41
34:BA:1486:G:H2'	34:BA:1487:G:O4'	2.20	0.41
34:BA:1502:A:N6	34:BA:1504:G:N2	2.69	0.41
34:BA:1509:C:N3	34:BA:1510:U:C6	2.89	0.41
35:BB:19:G:H5'	35:BB:20:G:C5	2.55	0.41
35:BB:23:A:C6	35:BB:24:G:O6	2.74	0.41
36:B1:11:U:C2	36:B1:45:A:N1	2.89	0.41
36:B1:18:U:O5'	36:B1:18:U:C6	2.65	0.41
37:BE:57:PHE:C	37:BE:57:PHE:CD2	2.99	0.41
37:BE:76:GLN:OE1	37:BE:76:GLN:HA	2.21	0.41
37:BE:79:ASP:HA	37:BE:82:ARG:CB	2.50	0.41
37:BE:104:ASN:O	37:BE:108:ILE:HG12	2.20	0.41
38:BF:112:SER:HB2	38:BF:115:LEU:HB2	2.02	0.41
38:BF:119:ARG:O	38:BF:121:ALA:N	2.54	0.41
38:BF:188:LEU:HD12	38:BF:190:ARG:CG	2.51	0.41
39:BG:32:ALA:O	39:BG:34:GLU:O	2.38	0.41
39:BG:175:SER:O	39:BG:183:GLY:CA	2.66	0.41
40:BH:122:GLU:C	40:BH:123:LEU:CD2	2.94	0.41
42:BJ:69:VAL:HG12	42:BJ:100:ALA:HB1	2.02	0.41
42:BJ:69:VAL:O	42:BJ:70:LYS:C	2.63	0.41
42:BJ:88:PRO:HG2	42:BJ:152:ALA:HA	2.00	0.41
42:BJ:150:ALA:O	42:BJ:153:HIS:ND1	2.50	0.41
47:BO:16:GLU:HG2	47:BO:17:LYS:N	2.36	0.41
47:BO:75:HIS:HB2	47:BO:76:ASN:H	1.46	0.41
47:BO:112:ASP:N	47:BO:112:ASP:OD2	2.52	0.41
48:BP:16:ASP:O	48:BP:18:ALA:N	2.53	0.41
48:BP:23:TYR:C	48:BP:66:LEU:HB3	2.42	0.41
48:BP:96:LEU:HA	48:BP:110:ARG:HG2	2.03	0.41
50:BR:5:LYS:HB3	50:BR:5:LYS:HE3	1.84	0.41
50:BR:34:LEU:O	50:BR:38:ARG:HD3	2.20	0.41
50:BR:53:HIS:NE2	50:BR:57:LEU:HD11	2.36	0.41
51:BS:26:ARG:O	51:BS:27:LYS:O	2.38	0.41
52:BT:18:THR:HG23	52:BT:69:LYS:HE3	2.01	0.41
52:BT:59:ILE:HG21	52:BT:71:PHE:HD2	1.84	0.41
53:BU:21:LYS:H	53:BU:55:ARG:CZ	2.34	0.41
1:AB:9:G:N3	1:AB:9:G:H2'	2.36	0.41
1:AB:15:A:N1	1:AB:109:G:C2	2.89	0.41
1:AB:50:G:O6	1:AB:51:G:O6	2.39	0.41
1:AB:57:A:C2'	7:AG:13:MET:SD	3.07	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:74:U:H3'	1:AB:75:G:H8	1.85	0.41
1:AB:83:G:C4'	23:AX:52:HIS:CD2	2.90	0.41
1:AB:89:G:C2	1:AB:89(A):A:N1	2.89	0.41
1:AB:104:A:H1'	21:AV:24:TYR:CZ	2.51	0.41
2:AA:20:C:H6	2:AA:20:C:O5'	2.04	0.41
2:AA:67:U:O5'	2:AA:67:U:C6	2.67	0.41
2:AA:185:U:N3	2:AA:212:G:C2	2.89	0.41
2:AA:194:G:C6	2:AA:195:A:C5	3.09	0.41
2:AA:236:C:O2'	2:AA:431:U:C1'	2.68	0.41
2:AA:242:G:H2'	2:AA:254:G:O6	2.21	0.41
2:AA:262:A:C5	2:AA:263:C:C6	3.08	0.41
2:AA:270(C):C:P	2:AA:270(C):C:O4'	2.79	0.41
2:AA:276:A:C2	2:AA:277:C:H5''	2.56	0.41
2:AA:285:C:N1	2:AA:356:G:N2	2.65	0.41
2:AA:288:C:H6	2:AA:288:C:C4'	2.32	0.41
2:AA:291:C:H2'	2:AA:292:C:H6	1.86	0.41
2:AA:306:U:H3'	2:AA:306:U:H6	1.85	0.41
2:AA:353:G:H2'	2:AA:354:G:C5'	2.51	0.41
2:AA:434:U:C6	2:AA:434:U:OP2	2.74	0.41
2:AA:491:G:O2'	2:AA:492:A:O5'	2.38	0.41
2:AA:543:C:N1	2:AA:551:G:N2	2.68	0.41
2:AA:564:C:OP2	26:A2:79:GLN:CD	2.64	0.41
2:AA:590:A:N6	2:AA:591:C:N4	2.69	0.41
2:AA:592:G:C2	2:AA:593:G:C4	3.09	0.41
2:AA:631:A:O2'	2:AA:632:A:H5'	2.21	0.41
2:AA:638:G:H2'	2:AA:639:U:C5'	2.50	0.41
2:AA:638:G:O6	2:AA:650:C:C4	2.74	0.41
2:AA:640:C:O2	2:AA:648:G:N1	2.54	0.41
2:AA:662:G:C2	2:AA:663:G:O6	2.74	0.41
2:AA:662:G:H2'	2:AA:663:G:C8	2.56	0.41
2:AA:668:G:C2'	2:AA:670:A:N7	2.80	0.41
2:AA:684:G:C8	2:AA:684:G:H3'	2.56	0.41
2:AA:718:A:H5'	2:AA:719:C:OP2	2.20	0.41
2:AA:727:A:N6	2:AA:728:G:C2	2.88	0.41
2:AA:729:G:C8	4:AD:207:ALA:CB	3.03	0.41
2:AA:783:A:H3'	2:AA:783:A:C8	2.56	0.41
2:AA:785:G:C2	2:AA:786:C:N1	2.88	0.41
2:AA:789:A:H4'	2:AA:790:C:OP2	2.21	0.41
2:AA:799:G:C5	2:AA:800:A:C6	3.09	0.41
2:AA:814:C:N3	2:AA:815:C:C4	2.89	0.41
2:AA:826:U:O2	2:AA:832:G:C2	2.74	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:826:U:C2	2:AA:832:G:C2	3.09	0.41
2:AA:953:A:H1'	2:AA:2266:A:OP2	2.20	0.41
2:AA:976:C:C2	2:AA:977:G:C8	3.09	0.41
2:AA:978:G:N1	2:AA:985:C:N4	2.22	0.41
2:AA:1017:G:C6	2:AA:1146:C:N4	2.88	0.41
2:AA:1020:A:O2'	12:AM:49:ARG:CD	2.68	0.41
2:AA:1027:A:O2'	2:AA:1028:A:H5'	2.21	0.41
2:AA:1055:G:C2	9:AI:28:LYS:HB3	2.55	0.41
2:AA:1071:G:N2	2:AA:1089:G:H2'	2.36	0.41
2:AA:1078:U:H3	2:AA:1088:A:HO2'	1.62	0.41
2:AA:1085:A:OP1	9:AI:34:ALA:CA	2.69	0.41
2:AA:1094:U:H3	2:AA:1096:A:H5''	1.85	0.41
2:AA:1104:C:O2'	9:AI:29:PHE:HA	2.20	0.41
2:AA:1143:A:C4	2:AA:1144:G:N7	2.89	0.41
2:AA:1144:G:N7	2:AA:1145:C:C5	2.89	0.41
2:AA:1163:G:C4'	26:A2:23:GLU:OE2	2.69	0.41
2:AA:1180:C:H2'	2:AA:1181:C:C6	2.55	0.41
2:AA:1208:C:C5	2:AA:1209:G:N7	2.89	0.41
2:AA:1222:C:C2	2:AA:1223:C:H6	2.39	0.41
2:AA:1248:G:OP1	25:A1:2:PRO:CB	2.68	0.41
2:AA:1252:G:H22	25:A1:37:GLN:HB2	1.85	0.41
2:AA:1265:A:N3	2:AA:1265:A:C2'	2.83	0.41
2:AA:1306:C:O5'	2:AA:1306:C:H6	2.03	0.41
2:AA:1312:U:N3	19:AT:58:MET:HE2	2.36	0.41
2:AA:1313:U:O2'	2:AA:1610:A:C2	2.68	0.41
2:AA:1339:G:H4'	19:AT:13:LYS:HE3	2.02	0.41
2:AA:1343:G:C6	2:AA:1344:G:N7	2.89	0.41
2:AA:1364:G:C2	2:AA:1367:A:OP2	2.74	0.41
2:AA:1370:C:H2'	2:AA:1371:G:H5'	2.03	0.41
2:AA:1377:G:H8	2:AA:1377:G:O5'	2.04	0.41
2:AA:1386:C:H2'	2:AA:1387:C:C6	2.56	0.41
2:AA:1388:G:C4	2:AA:1389:G:C8	3.09	0.41
2:AA:1400:G:C6	2:AA:1401:G:O6	2.74	0.41
2:AA:1413:G:H2'	2:AA:1414:G:C5'	2.50	0.41
2:AA:1456:G:C2	2:AA:2704:C:N3	2.89	0.41
2:AA:1491:G:OP1	2:AA:1491:G:C3'	2.67	0.41
2:AA:1535:U:C1'	2:AA:1538:G:N2	2.83	0.41
2:AA:1600:C:O5'	2:AA:1600:C:H6	2.04	0.41
2:AA:1608:A:C6	2:AA:1611:C:C1'	3.04	0.41
2:AA:1626:G:C5'	2:AA:1627:G:OP1	2.69	0.41
2:AA:1630:G:N2	2:AA:1636:C:N3	2.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1651:G:C2	2:AA:1652:A:C5	3.09	0.41
2:AA:1680:U:H6	2:AA:1680:U:O5'	2.04	0.41
2:AA:1696:G:H2'	2:AA:1697:G:H8	1.84	0.41
2:AA:1703:G:C6	2:AA:1704:G:C5	3.09	0.41
2:AA:1718:G:C2	2:AA:1742:C:O2	2.74	0.41
2:AA:1777:U:C4	2:AA:1778:U:H5	2.37	0.41
2:AA:1844:C:N1	2:AA:1897:G:N2	2.69	0.41
2:AA:1870:C:C4	2:AA:1871:A:C6	3.08	0.41
2:AA:1922:G:C8	2:AA:1922:G:C3'	3.04	0.41
2:AA:1984:G:C2	2:AA:1985:G:N9	2.89	0.41
2:AA:1988:C:C2'	2:AA:1989:G:O5'	2.69	0.41
2:AA:1993:U:C2	2:AA:1994:C:C6	3.09	0.41
2:AA:2019:A:N1	2:AA:2035:G:O6	2.53	0.41
2:AA:2042:A:H2'	2:AA:2043:C:OP2	2.21	0.41
2:AA:2048:G:N2	2:AA:2620:C:C2	2.77	0.41
2:AA:2049:G:C2	2:AA:2620:C:C2	3.09	0.41
2:AA:2061:G:N7	2:AA:2501:C:C1'	2.80	0.41
2:AA:2080:G:C6	2:AA:2241:A:C6	3.09	0.41
2:AA:2099:U:O4	2:AA:2190:G:O6	2.39	0.41
2:AA:2107:C:C6	2:AA:2107:C:C3'	3.03	0.41
2:AA:2128:C:O2	2:AA:2128:C:H2'	2.21	0.41
2:AA:2136:C:C5'	2:AA:2137:C:OP2	2.66	0.41
2:AA:2152:G:H2'	2:AA:2153:G:O4'	2.21	0.41
2:AA:2179:C:C3'	2:AA:2180:U:C5	3.04	0.41
2:AA:2259:G:O2'	2:AA:2260:C:H5'	2.21	0.41
2:AA:2316:C:H5''	2:AA:2316:C:H6	1.86	0.41
2:AA:2323:G:H2'	2:AA:2324:C:C5	2.52	0.41
2:AA:2415:G:C2	2:AA:2416:C:C5	3.08	0.41
2:AA:2436:G:C2'	2:AA:2437:U:C5'	2.99	0.41
2:AA:2474:C:C2'	2:AA:2475:C:C5'	2.97	0.41
2:AA:2492:U:N3	2:AA:2493:U:H5	2.16	0.41
2:AA:2511:U:H2'	2:AA:2512:C:C5'	2.51	0.41
2:AA:2521:C:H2'	2:AA:2522:U:O5'	2.19	0.41
2:AA:2533:A:H2'	2:AA:2534:A:O4'	2.21	0.41
2:AA:2555:U:C5	2:AA:2556:C:C6	3.09	0.41
2:AA:2564:A:N6	2:AA:2565:A:N6	2.68	0.41
2:AA:2570:G:H2'	2:AA:2570:G:N3	2.35	0.41
2:AA:2596:U:O5'	2:AA:2596:U:H6	2.03	0.41
2:AA:2630:G:C8	2:AA:2894:G:C6	3.09	0.41
2:AA:2634:G:C6	2:AA:2635:C:H5	2.39	0.41
2:AA:2645:G:C8	2:AA:2645:G:OP2	2.74	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2731:G:N2	2:AA:2732:G:N3	2.68	0.41
2:AA:2748:A:H2'	2:AA:2749:A:O5'	2.21	0.41
2:AA:2748:A:H2'	8:AH:62:ALA:HA	2.03	0.41
2:AA:2762:G:C6	2:AA:2763:G:C6	3.09	0.41
2:AA:2797:U:OP1	2:AA:2797:U:O4'	2.38	0.41
2:AA:2820:A:N7	5:AE:304:ASP:CG	2.79	0.41
2:AA:2838:G:C5	2:AA:2839:G:C8	3.09	0.41
3:AC:15:ASP:OD1	3:AC:15:ASP:C	2.64	0.41
3:AC:16:PRO:O	3:AC:17:ASN:HB3	2.21	0.41
3:AC:22:ILE:HG21	3:AC:22:ILE:HD13	1.83	0.41
3:AC:25:ALA:O	3:AC:28:LEU:N	2.53	0.41
3:AC:34:THR:O	3:AC:34:THR:HG22	2.21	0.41
3:AC:100:ILE:HD12	3:AC:122:ALA:HB1	2.02	0.41
3:AC:114:VAL:CG2	3:AC:153:ILE:HG12	2.48	0.41
3:AC:163:PHE:HZ	3:AC:199:HIS:ND1	2.18	0.41
4:AD:64:ILE:HD12	4:AD:64:ILE:N	2.35	0.41
4:AD:70:LYS:HG3	4:AD:73:ILE:CD1	2.51	0.41
4:AD:130:PRO:N	4:AD:188:ARG:HG2	2.36	0.41
4:AD:198:GLY:C	4:AD:200:THR:N	2.78	0.41
6:AF:6:TYR:HB2	6:AF:141:SER:OG	2.20	0.41
6:AF:52:ALA:CA	6:AF:55:ARG:HH21	2.34	0.41
6:AF:158:GLU:HA	6:AF:161:ASP:OD2	2.21	0.41
7:AG:54:ALA:HB1	7:AG:55:LYS:H	1.61	0.41
7:AG:67:ASP:HB2	7:AG:69:ILE:CD1	2.49	0.41
8:AH:64:HIS:O	8:AH:65:GLY:C	2.62	0.41
8:AH:104:LEU:HD13	8:AH:151:ARG:HH21	1.86	0.41
8:AH:120:LEU:C	8:AH:121:GLU:CD	2.89	0.41
8:AH:140:VAL:O	8:AH:141:GLY:C	2.63	0.41
8:AH:143:LEU:O	8:AH:144:ALA:C	2.62	0.41
9:AI:77:VAL:HG21	9:AI:92:VAL:HG22	2.03	0.41
9:AI:115:LYS:NZ	9:AI:127:LEU:HB3	2.35	0.41
9:AI:127:LEU:H	9:AI:127:LEU:HD23	1.85	0.41
9:AJ:78:ARG:NH2	9:AJ:89:LYS:HE3	2.36	0.41
9:AJ:81:THR:CG2	9:AJ:103:LYS:HG2	2.50	0.41
9:AJ:103:LYS:HD3	9:AJ:114:ILE:HD13	2.02	0.41
9:AJ:118:LEU:HD12	9:AJ:125:VAL:HG21	2.02	0.41
10:AK:83:ALA:O	10:AK:90:PHE:CE1	2.74	0.41
10:AK:88:ARG:CB	10:AK:122:ARG:HG2	2.47	0.41
10:AK:133:LEU:HB2	10:AK:138:THR:HA	2.03	0.41
11:AL:14:PRO:O	11:AL:15:ALA:O	2.39	0.41
11:AL:33:VAL:HG13	11:AL:38:PHE:CD2	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:89:SER:HB2	11:AL:95:LYS:HG2	2.02	0.41
11:AL:118:ALA:O	11:AL:119:ASN:OD1	2.38	0.41
12:AM:12:VAL:O	12:AM:38:VAL:CG1	2.64	0.41
12:AM:58:GLU:O	12:AM:61:VAL:HB	2.21	0.41
13:AN:63:VAL:CG1	13:AN:102:VAL:HG11	2.49	0.41
13:AN:65:THR:C	13:AN:67:ARG:H	2.27	0.41
14:AO:67:ARG:CZ	14:AO:111:ALA:O	2.68	0.41
16:AQ:31:LYS:HZ2	16:AQ:99:GLU:CB	2.33	0.41
16:AQ:33:ARG:CB	16:AQ:35:VAL:HG23	2.51	0.41
16:AQ:41:LYS:NZ	16:AQ:68:GLU:OE1	2.53	0.41
16:AQ:61:ALA:O	16:AQ:62:HIS:CG	2.74	0.41
16:AQ:120:GLU:C	16:AQ:123:ILE:HB	2.44	0.41
16:AQ:126:GLY:O	16:AQ:128:ASP:N	2.53	0.41
17:AR:45:GLU:O	17:AR:46:ALA:C	2.64	0.41
17:AR:47:ARG:H	17:AR:47:ARG:HG3	1.64	0.41
18:AS:38:TYR:HB2	29:A5:30:LEU:HD21	2.03	0.41
18:AS:55:ALA:CB	18:AS:107:LEU:CD1	2.98	0.41
18:AS:60:ASN:C	18:AS:61:ASN:OD1	2.63	0.41
18:AS:65:LEU:O	18:AS:66:GLU:O	2.38	0.41
19:AT:13:LYS:O	19:AT:16:ASN:CG	2.64	0.41
19:AT:16:ASN:O	19:AT:20:PHE:CE1	2.74	0.41
19:AT:24:LEU:CB	19:AT:26:PHE:CZ	2.87	0.41
19:AT:25:GLN:CD	19:AT:65:VAL:HG22	2.45	0.41
20:AU:58:GLU:CD	20:AU:76:ASP:OD1	2.64	0.41
20:AU:92:ASP:OD1	20:AU:92:ASP:C	2.62	0.41
21:AV:30:VAL:HG12	21:AV:31:SER:N	2.35	0.41
21:AV:37:LYS:CA	21:AV:40:ASP:OD1	2.68	0.41
21:AV:135:VAL:O	21:AV:136:VAL:HG23	2.21	0.41
21:AV:148:THR:CA	21:AV:168:VAL:CG2	2.92	0.41
21:AV:172:LEU:CD2	21:AV:173:PRO:O	2.64	0.41
22:AW:12:THR:CB	22:AW:13:PRO:HD2	2.48	0.41
22:AW:30:ALA:O	22:AW:34:GLN:CG	2.69	0.41
24:A0:37:THR:O	24:A0:40:LYS:HB2	2.20	0.41
24:A0:72:ASP:O	24:A0:76:VAL:HB	2.21	0.41
24:A0:84:ALA:HB3	24:A0:85:PRO:CD	2.45	0.41
24:A0:104:ARG:CA	24:A0:105:ARG:NH2	2.84	0.41
25:A1:33:ARG:O	25:A1:35:ALA:C	2.64	0.41
25:A1:57:PHE:O	25:A1:61:TRP:HD1	2.04	0.41
25:A1:91:ASN:O	25:A1:95:LEU:CD2	2.58	0.41
26:A2:4:ILE:HG23	26:A2:13:ARG:CA	2.51	0.41
26:A2:89:ASN:O	26:A2:91:THR:HG23	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:A3:18:PRO:O	27:A3:19:LYS:HG3	2.20	0.41
27:A3:54:GLY:O	27:A3:55:ARG:HB3	2.21	0.41
28:A4:9:ALA:C	28:A4:10:VAL:CG2	2.94	0.41
28:A4:26:SER:O	28:A4:27:THR:HG23	2.20	0.41
28:A4:42:PHE:CE2	28:A4:43:TRP:O	2.73	0.41
28:A4:54:GLY:C	28:A4:55:ARG:CG	2.94	0.41
31:A7:3:ARG:C	31:A7:4:THR:HG1	2.28	0.41
32:A8:33:ASN:O	32:A8:34:THR:CB	2.69	0.41
32:A8:53:ALA:HA	32:A8:56:ALA:HB3	2.02	0.41
33:A9:2:LYS:CD	33:A9:33:LYS:O	2.58	0.41
34:BA:22:G:OP1	34:BA:561:U:O2	2.39	0.41
34:BA:51:A:C2	34:BA:353:A:N1	2.87	0.41
34:BA:90:U:H2'	34:BA:91:C:H6	1.85	0.41
34:BA:117:G:C6	34:BA:118:U:C2	3.09	0.41
34:BA:118:U:O2'	34:BA:119:A:H5'	2.21	0.41
34:BA:129(A):G:N1	34:BA:190(D):U:H4'	2.32	0.41
34:BA:138:G:C2	34:BA:226:G:C4	3.09	0.41
34:BA:182:U:C6	34:BA:182:U:H3'	2.56	0.41
34:BA:183:G:N2	34:BA:223:U:O2'	2.53	0.41
34:BA:202:U:O2'	34:BA:203:U:OP1	2.35	0.41
34:BA:236:G:C5	34:BA:237:C:N4	2.88	0.41
34:BA:254:G:C6	34:BA:273:A:N1	2.89	0.41
34:BA:262:A:C2	34:BA:263:A:N1	2.89	0.41
34:BA:301:G:C2'	34:BA:302:G:O5'	2.69	0.41
34:BA:333:G:C2	34:BA:334:C:N3	2.89	0.41
34:BA:384:G:H2'	34:BA:385:C:H6	1.86	0.41
34:BA:384:G:C2'	34:BA:385:C:O4'	2.68	0.41
34:BA:399:G:C4	34:BA:400:C:C6	3.09	0.41
34:BA:458:C:N4	34:BA:459:G:C6	2.88	0.41
34:BA:485:G:O2'	34:BA:486:U:C5	2.71	0.41
34:BA:502:G:O6	34:BA:544:G:O6	2.39	0.41
34:BA:587:G:O2'	43:BK:1:MET:SD	2.70	0.41
34:BA:597:G:C4	34:BA:598:U:C6	3.08	0.41
34:BA:640:A:N7	34:BA:641:U:C5	2.89	0.41
34:BA:641:U:O3'	34:BA:642:A:C8	2.74	0.41
34:BA:655:A:O2'	34:BA:656:C:H5'	2.21	0.41
34:BA:665:A:C4	34:BA:725:G:N2	2.89	0.41
34:BA:666:G:C5	34:BA:741:G:C6	3.09	0.41
34:BA:698:G:N1	34:BA:699:C:C4	2.89	0.41
34:BA:706:A:N3	34:BA:706:A:H2'	2.36	0.41
34:BA:774:G:C5	34:BA:775:G:C8	3.09	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:783:C:C2'	34:BA:784:C:C5'	2.89	0.41
34:BA:783:C:N4	34:BA:800:G:N2	2.69	0.41
34:BA:785:G:C2	34:BA:798:G:C5	3.09	0.41
34:BA:792:A:O2'	34:BA:793:U:H5''	2.21	0.41
34:BA:854:G:C6	34:BA:855:G:N7	2.89	0.41
34:BA:876:G:C2	34:BA:877:C:C5	3.09	0.41
34:BA:888:G:C4	34:BA:889:A:N7	2.89	0.41
34:BA:914:A:O2'	34:BA:915:A:O5'	2.39	0.41
34:BA:944:G:OP2	34:BA:945:G:N7	2.54	0.41
34:BA:953:G:H1'	48:BP:125:ARG:C	2.46	0.41
34:BA:958:A:H1'	34:BA:985:C:O2'	2.20	0.41
34:BA:974:A:OP2	49:BQ:31:ARG:CG	2.69	0.41
34:BA:988:G:C5	34:BA:989:C:C4	3.08	0.41
34:BA:992:U:H4'	34:BA:993:G:C5'	2.51	0.41
34:BA:1054:C:N3	35:BB:34:G:C5'	2.82	0.41
34:BA:1060:C:H5''	45:BM:51:ARG:CD	2.51	0.41
34:BA:1085:U:O3'	34:BA:1086:U:H6	2.02	0.41
34:BA:1086:U:H2'	34:BA:1087:G:C8	2.55	0.41
34:BA:1107:C:OP1	38:BF:172:ARG:HA	2.21	0.41
34:BA:1124:G:H3'	34:BA:1145:C:C5	2.54	0.41
34:BA:1133:G:C6	34:BA:1134:G:N7	2.88	0.41
34:BA:1145:C:C2'	34:BA:1146:A:OP2	2.69	0.41
34:BA:1148:U:H5'	44:BL:16:ARG:CD	2.50	0.41
34:BA:1157:A:H1'	34:BA:1181:G:N2	2.32	0.41
34:BA:1166:G:N2	34:BA:1171:G:O6	2.53	0.41
34:BA:1213:A:C6	34:BA:1215:G:C2	3.09	0.41
34:BA:1256:A:O2'	34:BA:1257:U:H1'	2.21	0.41
34:BA:1261:A:C2	34:BA:1262:C:N1	2.89	0.41
34:BA:1330:U:C4	34:BA:1331:G:C6	3.08	0.41
34:BA:1336:C:O2	34:BA:1336:C:C2'	2.69	0.41
34:BA:1351:U:C1'	42:BJ:33:ASP:CG	2.94	0.41
34:BA:1364:U:OP1	34:BA:1364:U:H6	2.04	0.41
34:BA:1480:G:C2'	34:BA:1481:U:H5'	2.51	0.41
34:BA:1494:G:N1	34:BA:1495:U:C4	2.89	0.41
34:BA:1496:C:H2'	34:BA:1497:G:O4'	2.20	0.41
34:BA:1506:U:N3	34:BA:1522:U:OP1	2.50	0.41
34:BA:1519:A:C8	34:BA:1519:A:C3'	3.04	0.41
34:BA:1533:C:O4'	34:BA:1533:C:OP1	2.38	0.41
35:BB:35:A:H61	36:B1:65:U:H2'	1.86	0.41
35:BB:58:A:C2	35:BB:61:C:O4'	2.74	0.41
35:BB:62:A:C2'	35:BB:63:C:C5'	2.99	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:2:C:C2'	35:BC:3:G:O5'	2.69	0.41
35:BC:9:A:H2	35:BC:45:G:N7	2.12	0.41
35:BC:9:A:H5'	35:BC:46:G:HO2'	1.86	0.41
35:BC:18:G:N2	35:BC:58:A:C4	2.89	0.41
35:BC:53:G:C2	35:BC:62:A:C6	3.09	0.41
35:BC:60:C:C4'	35:BC:61:C:OP2	2.67	0.41
35:BC:60:C:C5'	35:BC:61:C:O5'	2.69	0.41
36:B1:56:A:N3	36:B1:56:A:C2'	2.83	0.41
36:B1:65:U:O3'	36:B1:66:G:C8	2.69	0.41
36:B1:69:A:O2'	36:B1:70:U:C6	2.74	0.41
37:BE:11:LEU:N	37:BE:11:LEU:HD23	2.36	0.41
37:BE:14:GLY:C	37:BE:209:ARG:CZ	2.94	0.41
37:BE:56:ARG:O	37:BE:57:PHE:C	2.59	0.41
37:BE:72:GLY:HA2	37:BE:165:VAL:HG21	2.01	0.41
37:BE:96:ARG:N	37:BE:96:ARG:CD	2.82	0.41
37:BE:124:SER:OG	37:BE:126:GLU:HB2	2.20	0.41
38:BF:22:TRP:O	38:BF:23:TYR:HB2	2.21	0.41
38:BF:30:ARG:HB3	49:BQ:36:PHE:O	2.21	0.41
38:BF:43:LEU:HA	38:BF:47:LEU:HD23	2.03	0.41
38:BF:88:ARG:N	38:BF:101:LEU:HD12	2.36	0.41
38:BF:175:LEU:HD21	38:BF:201:TYR:CE2	2.55	0.41
39:BG:25:ARG:HE	39:BG:30:LYS:CD	2.21	0.41
39:BG:98:GLU:C	39:BG:103:ASN:ND2	2.79	0.41
39:BG:112:VAL:HG23	39:BG:161:ASN:HD21	1.85	0.41
39:BG:127:THR:OG1	39:BG:149:ALA:HA	2.20	0.41
40:BH:6:PHE:CE2	40:BH:66:MET:HE2	2.53	0.41
40:BH:75:THR:CB	40:BH:118:ILE:HG12	2.42	0.41
40:BH:86:ALA:O	40:BH:125:SER:HB2	2.20	0.41
41:BI:11:ASN:OD1	41:BI:13:ASN:C	2.64	0.41
41:BI:12:PRO:C	41:BI:14:LEU:H	2.28	0.41
41:BI:13:ASN:ND2	41:BI:13:ASN:H	2.18	0.41
41:BI:42:GLU:OE1	41:BI:59:TYR:OH	2.31	0.41
41:BI:94:GLN:H	41:BI:94:GLN:CD	2.26	0.41
42:BJ:22:LEU:HD12	42:BJ:101:LEU:HD11	2.03	0.41
42:BJ:72:ARG:O	42:BJ:90:GLU:C	2.64	0.41
43:BK:4:ASP:OD1	43:BK:6:ILE:CG2	2.62	0.41
43:BK:18:ARG:NH1	43:BK:18:ARG:CG	2.84	0.41
43:BK:29:SER:N	43:BK:32:LYS:HZ3	2.19	0.41
43:BK:49:GLU:CG	43:BK:62:TYR:OH	2.67	0.41
44:BL:20:ARG:C	44:BL:59:PHE:CD2	2.99	0.41
44:BL:67:GLY:CA	44:BL:73:GLN:HE21	2.31	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:38:ILE:HA	45:BM:39:PRO:HD2	1.81	0.41
46:BN:16:SER:CA	46:BN:77:MET:SD	3.09	0.41
46:BN:57:THR:HG23	46:BN:60:ALA:N	2.18	0.41
46:BN:67:ASP:HA	46:BN:70:LYS:HE3	2.00	0.41
46:BN:69:ALA:HA	46:BN:72:ALA:HB3	2.02	0.41
47:BO:24:VAL:HG22	47:BO:98:TYR:CE1	2.56	0.41
47:BO:56:ALA:O	47:BO:67:THR:HA	2.21	0.41
48:BP:11:ARG:HA	48:BP:11:ARG:HD2	1.93	0.41
48:BP:12:ASN:O	48:BP:44:ARG:HG2	2.21	0.41
48:BP:48:LEU:HD13	48:BP:53:VAL:CG2	2.41	0.41
48:BP:69:GLU:HG3	48:BP:72:ALA:HB3	2.03	0.41
48:BP:96:LEU:O	48:BP:98:VAL:HG23	2.20	0.41
50:BR:38:ARG:O	50:BR:41:GLU:HB3	2.21	0.41
50:BR:70:LEU:HG	50:BR:78:TYR:HA	2.01	0.41
51:BS:32:TYR:CE2	51:BS:35:LYS:CB	3.00	0.41
51:BS:53:VAL:HG23	51:BS:54:GLU:N	2.36	0.41
52:BT:11:VAL:CG2	52:BT:20:THR:OG1	2.68	0.41
52:BT:12:SER:CB	52:BT:20:THR:OG1	2.68	0.41
52:BT:65:ILE:O	52:BT:66:SER:CB	2.69	0.41
53:BU:21:LYS:CA	53:BU:55:ARG:NH1	2.77	0.41
53:BU:53:ARG:HG2	53:BU:63:GLN:OE1	2.21	0.41
53:BU:66:LEU:O	53:BU:69:THR:OG1	2.38	0.41
54:BV:11:VAL:HG21	54:BV:41:VAL:CG1	2.51	0.41
54:BV:34:TRP:O	54:BV:35:SER:C	2.64	0.41
54:BV:38:SER:O	54:BV:70:LYS:CG	2.66	0.41
54:BV:61:TYR:CD2	54:BV:62:ILE:N	2.88	0.41
54:BV:63:THR:H	54:BV:66:MET:HG3	1.86	0.41
55:BW:15:ARG:HA	55:BW:15:ARG:HD3	1.77	0.41
55:BW:43:LEU:HB3	55:BW:52:ALA:CB	2.46	0.41
56:BX:20:LYS:O	56:BX:21:TYR:O	2.39	0.41
1:AB:15:A:C6	1:AB:109:G:C6	3.09	0.41
1:AB:73:A:N6	21:AV:24:TYR:HH	2.18	0.41
1:AB:73:A:C2	1:AB:74:U:C4	3.09	0.41
1:AB:77:U:O3'	21:AV:73:LYS:NZ	2.52	0.41
2:AA:18:C:P	25:A1:26:GLY:HA2	2.61	0.41
2:AA:50:U:H6	2:AA:50:U:C3'	2.16	0.41
2:AA:57:C:H6	2:AA:57:C:P	2.43	0.41
2:AA:109:G:OP2	2:AA:109:G:H3'	2.21	0.41
2:AA:151:C:N3	2:AA:152:G:N3	2.69	0.41
2:AA:172:C:C2'	2:AA:173:G:C8	2.80	0.41
2:AA:241:A:O2'	2:AA:242:G:H1'	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:294:A:H4'	20:AU:15:PRO:CD	2.50	0.41
2:AA:303:U:C4	2:AA:304:G:N7	2.89	0.41
2:AA:326:G:O2'	2:AA:327:G:C5'	2.69	0.41
2:AA:352:G:C2	2:AA:353:G:H1'	2.56	0.41
2:AA:372:G:O5'	2:AA:372:G:C8	2.73	0.41
2:AA:434:U:O2'	2:AA:435:C:P	2.78	0.41
2:AA:448:U:O2'	2:AA:449:A:P	2.78	0.41
2:AA:472:A:H2'	2:AA:473:G:H5'	2.03	0.41
2:AA:542:C:C2	2:AA:543:C:H5	2.37	0.41
2:AA:580:C:C2	2:AA:581:C:C4	3.09	0.41
2:AA:592:G:O2'	32:A8:3:LYS:HB2	2.20	0.41
2:AA:635:C:C2'	2:AA:636:G:H8	2.19	0.41
2:AA:673:C:H1'	6:AF:82:GLN:OE1	2.21	0.41
2:AA:675:A:C6	2:AA:676:A:C6	3.08	0.41
2:AA:687:C:HO2'	2:AA:1780:A:H61	1.66	0.41
2:AA:702:G:H1	2:AA:730:C:N4	2.19	0.41
2:AA:855:G:N2	27:A3:26:PHE:CZ	2.89	0.41
2:AA:856:C:H5'	27:A3:25:LYS:NZ	2.35	0.41
2:AA:950:G:O6	2:AA:968:G:O6	2.39	0.41
2:AA:1022:G:C5	2:AA:1139:G:C2	3.09	0.41
2:AA:1025:G:C8	2:AA:1134:G:O2'	2.57	0.41
2:AA:1085:A:O2'	2:AA:1086:A:O5'	2.39	0.41
2:AA:1109:C:H5	2:AA:1110:G:N1	2.16	0.41
2:AA:1139:G:H2'	12:AM:47:THR:CG2	2.51	0.41
2:AA:1164:G:H2'	2:AA:1165:U:H6	1.84	0.41
2:AA:1183:G:H2'	2:AA:1184:G:C8	2.55	0.41
2:AA:1288:U:H5''	2:AA:1289:C:P	2.57	0.41
2:AA:1486:A:C2'	2:AA:1487:G:O4'	2.69	0.41
2:AA:1524:G:C4	2:AA:1525:G:C8	3.09	0.41
2:AA:1569:A:C6	2:AA:1570:A:C6	3.08	0.41
2:AA:1689:A:C2	2:AA:1700:A:N1	2.89	0.41
2:AA:1718:G:N2	2:AA:1742:C:N1	2.68	0.41
2:AA:1742:C:H3'	2:AA:1742:C:C6	2.56	0.41
2:AA:1787:A:C2	2:AA:1788:C:C5	3.09	0.41
2:AA:1788:C:C2'	2:AA:1789:A:H5'	2.48	0.41
2:AA:1838:C:C2'	2:AA:1898:U:O4	2.69	0.41
2:AA:1933:G:C2'	2:AA:1934:C:C5'	2.98	0.41
2:AA:1933:G:N2	2:AA:1973:G:O2'	2.48	0.41
2:AA:2004:G:H2'	2:AA:2005:A:C8	2.56	0.41
2:AA:2052:G:N3	2:AA:2053:G:C8	2.89	0.41
2:AA:2106:G:C2	2:AA:2182:G:N2	2.89	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:2125:G:N7	2:AA:2128:C:C6	2.89	0.41
2:AA:2140:C:OP2	2:AA:2140:C:C6	2.73	0.41
2:AA:2147:G:O6	2:AA:2150:U:O4	2.39	0.41
2:AA:2177:C:H5'	3:AC:46:LYS:CG	2.50	0.41
2:AA:2278:A:O2'	2:AA:2279:G:C5'	2.59	0.41
2:AA:2373:G:HO2'	2:AA:2374:C:C5'	2.34	0.41
2:AA:2383:G:C2	2:AA:2384:G:C4	3.09	0.41
2:AA:2439:A:N6	35:BC:76:A:OP2	2.53	0.41
2:AA:2581:G:P	5:AE:226:HIS:HE2	2.44	0.41
2:AA:2606:C:C6	2:AA:2606:C:H3'	2.56	0.41
2:AA:2679:A:O2'	5:AE:302:GLY:HA2	2.20	0.41
2:AA:2868:A:C2'	2:AA:2869:G:O5'	2.69	0.41
2:AA:2881:C:H2'	2:AA:2882:A:C8	2.56	0.41
3:AC:23:ASP:HA	3:AC:186:ALA:HB2	2.02	0.41
3:AC:28:LEU:HD13	3:AC:31:GLU:OE1	2.21	0.41
3:AC:52:ARG:O	3:AC:53:ARG:HG3	2.21	0.41
3:AC:74:VAL:HG21	3:AC:156:ILE:CD1	2.51	0.41
3:AC:133:PRO:CA	3:AC:172:HIS:NE2	2.75	0.41
4:AD:65:ASP:C	4:AD:67:LYS:HZ3	2.27	0.41
4:AD:142:ASN:O	4:AD:144:GLU:N	2.54	0.41
4:AD:206:LYS:H	4:AD:206:LYS:HG3	1.14	0.41
5:AE:73:ILE:CG2	5:AE:74:GLU:N	2.84	0.41
5:AE:175:ASP:C	5:AE:178:LEU:HG	2.45	0.41
6:AF:94:THR:CA	6:AF:98:ARG:NH2	2.84	0.41
6:AF:205:ARG:HG2	6:AF:212:VAL:HB	2.00	0.41
6:AF:219:ASN:N	6:AF:222:ASP:CG	2.67	0.41
7:AG:85:GLN:HG3	7:AG:85:GLN:H	1.66	0.41
7:AG:138:GLY:O	7:AG:141:VAL:HG23	2.21	0.41
8:AH:18:VAL:HG12	8:AH:42:ILE:HD12	2.00	0.41
8:AH:24:THR:HA	8:AH:33:THR:HA	2.02	0.41
8:AH:92:GLY:HA2	8:AH:94:ARG:HH21	1.86	0.41
9:AI:72:GLN:HA	9:AI:75:LYS:CE	2.51	0.41
10:AK:2:LYS:CG	10:AK:39:ALA:HB2	2.50	0.41
10:AK:8:ASP:OD2	10:AK:10:LYS:C	2.64	0.41
10:AK:29:PHE:HE2	10:AK:30:LEU:HD11	1.85	0.41
10:AK:69:LYS:HG3	10:AK:73:GLU:OE1	2.21	0.41
10:AK:121:ILE:N	10:AK:121:ILE:CD1	2.84	0.41
10:AK:133:LEU:CD1	10:AK:139:ALA:CB	2.99	0.41
11:AL:28:LEU:HD22	11:AL:33:VAL:HG21	2.03	0.41
11:AL:117:ASN:N	11:AL:117:ASN:OD1	2.44	0.41
13:AN:63:VAL:HG23	13:AN:84:CYS:SG	2.61	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:77:ILE:HD13	13:AN:78:ARG:CA	2.48	0.41
14:AO:129:ALA:O	14:AO:130:ARG:C	2.64	0.41
15:AP:32:LYS:HE3	21:AV:172:LEU:HD11	1.98	0.41
15:AP:67:ALA:CA	15:AP:70:ARG:HH11	2.32	0.41
15:AP:95:GLU:OE2	15:AP:109:VAL:HG23	2.21	0.41
16:AQ:48:VAL:HG13	16:AQ:55:ASP:OD1	2.21	0.41
16:AQ:103:ASP:O	16:AQ:105:GLY:N	2.54	0.41
16:AQ:109:PRO:HA	16:AQ:115:VAL:HB	2.02	0.41
16:AQ:121:GLY:O	16:AQ:125:ALA:HB2	2.21	0.41
16:AQ:124:ASP:N	16:AQ:124:ASP:OD1	2.54	0.41
18:AS:12:ILE:O	18:AS:14:PRO:HD3	2.21	0.41
18:AS:28:SER:OG	18:AS:31:GLU:N	2.54	0.41
18:AS:32:ALA:O	18:AS:35:ILE:CB	2.66	0.41
19:AT:3:ASP:HA	22:AW:24:LYS:CG	2.51	0.41
19:AT:6:LYS:CE	19:AT:28:VAL:C	2.92	0.41
20:AU:30:ASP:HA	20:AU:33:GLU:OE1	2.21	0.41
20:AU:103:LEU:CD2	20:AU:108:ARG:C	2.94	0.41
21:AV:3:LEU:O	21:AV:56:VAL:CG2	2.69	0.41
21:AV:19:ILE:HG13	21:AV:79:ILE:CB	2.51	0.41
21:AV:91:PRO:O	21:AV:127:PRO:HG3	2.21	0.41
21:AV:136:VAL:O	21:AV:137:ASP:CG	2.64	0.41
22:AW:12:THR:HA	22:AW:16:ARG:NH2	2.36	0.41
23:AX:12:PRO:O	23:AX:14:GLY:N	2.53	0.41
24:A0:29:LEU:HB2	24:A0:75:LEU:HD11	2.03	0.41
24:A0:79:LEU:CG	24:A0:80:PHE:N	2.84	0.41
24:A0:83:ILE:C	24:A0:85:PRO:N	2.78	0.41
24:A0:87:TYR:O	24:A0:89:ASP:N	2.54	0.41
25:A1:21:ALA:C	25:A1:24:PHE:CZ	2.99	0.41
26:A2:57:GLN:O	26:A2:58:ALA:CB	2.60	0.41
27:A3:28:GLY:N	27:A3:60:PHE:CG	2.89	0.41
27:A3:39:ARG:CZ	27:A3:69:PHE:CE2	3.04	0.41
28:A4:63:PHE:CD2	28:A4:69:ARG:NH2	2.89	0.41
30:A6:40:TYR:HB3	30:A6:41:ASP:H	1.61	0.41
31:A7:1:MET:O	31:A7:1:MET:CG	2.68	0.41
32:A8:36:LYS:HG2	32:A8:40:GLU:OE2	2.21	0.41
34:BA:22:G:C4'	34:BA:885:G:H1'	2.51	0.41
34:BA:40:C:N4	34:BA:403:C:N3	2.69	0.41
34:BA:49:U:C2	34:BA:364:A:N6	2.89	0.41
34:BA:64:G:N2	34:BA:67:C:N4	2.69	0.41
34:BA:77:G:C2	34:BA:78:G:C8	3.09	0.41
34:BA:136:C:C6	34:BA:136:C:O5'	2.74	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:138:G:N2	34:BA:226:G:N9	2.68	0.41
34:BA:175:C:O2'	34:BA:176:C:C5'	2.68	0.41
34:BA:279:A:O2'	34:BA:280:C:OP2	2.35	0.41
34:BA:309:G:H2'	34:BA:310:G:H8	1.85	0.41
34:BA:325:A:C8	34:BA:326:G:C8	3.09	0.41
34:BA:346:G:C2'	34:BA:347:G:O4'	2.67	0.41
34:BA:407:G:H2'	34:BA:408:A:O5'	2.21	0.41
34:BA:408:A:H5'	39:BG:116:GLN:HE21	1.85	0.41
34:BA:580:U:C2	34:BA:761:G:O6	2.74	0.41
34:BA:602:A:C5	34:BA:603:U:C4	3.09	0.41
34:BA:653:A:C4'	43:BK:56:LYS:NZ	2.84	0.41
34:BA:664:G:H22	34:BA:741:G:H1	1.69	0.41
34:BA:665:A:H2'	34:BA:732:C:O2	2.21	0.41
34:BA:665:A:H2	34:BA:732:C:C4	2.35	0.41
34:BA:698:G:H2'	34:BA:699:C:H6	1.84	0.41
34:BA:797:C:O2'	34:BA:798:G:C5'	2.64	0.41
34:BA:830:G:O2'	34:BA:831:U:H5'	2.21	0.41
34:BA:876:G:H2'	34:BA:877:C:H6	1.86	0.41
34:BA:893:C:C2	34:BA:894:G:N7	2.89	0.41
34:BA:960:U:O2'	34:BA:1223:C:H5'	2.21	0.41
34:BA:962:C:N4	34:BA:963:G:N7	2.68	0.41
34:BA:965:A:N3	34:BA:969:A:C4	2.89	0.41
34:BA:970:C:N4	48:BP:126:LYS:HZ3	2.16	0.41
34:BA:1027:C:C4	34:BA:1028:C:C5	3.09	0.41
34:BA:1045:C:C2'	34:BA:1046:A:O5'	2.69	0.41
34:BA:1048:G:OP1	49:BQ:3:ARG:CA	2.69	0.41
34:BA:1073:U:N3	34:BA:1102:A:C6	2.80	0.41
34:BA:1117:G:C4	34:BA:1184:G:N2	2.89	0.41
34:BA:1150:U:H5'	34:BA:1280:A:C2	2.56	0.41
34:BA:1152:A:O2'	34:BA:1153:C:O5'	2.38	0.41
34:BA:1152:A:C2	34:BA:1153:C:C5	3.08	0.41
34:BA:1153:C:N4	34:BA:1154:G:O6	2.54	0.41
34:BA:1181:G:C2'	34:BA:1182:G:O4'	2.67	0.41
34:BA:1238:A:N6	34:BA:1301:U:C2	2.87	0.41
34:BA:1251:A:H8	34:BA:1251:A:O5'	2.04	0.41
34:BA:1256:A:H4'	34:BA:1257:U:O2'	2.21	0.41
34:BA:1286:A:O2'	56:BX:22:ARG:NH2	2.54	0.41
34:BA:1308:U:C3'	48:BP:99:ARG:NH1	2.45	0.41
34:BA:1449:C:H2'	34:BA:1450:U:C5'	2.50	0.41
34:BA:1494:G:C6	34:BA:1495:U:H5	2.39	0.41
35:BB:32:C:C4	35:BB:33:U:C2	3.09	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BB:58:A:C2'	35:BB:59:U:O5'	2.68	0.41
35:BC:13:C:O2	35:BC:13:C:C2'	2.69	0.41
35:BC:47:U:C2	35:BC:50:U:P	3.14	0.41
37:BE:28:PHE:CD1	37:BE:31:TYR:HB2	2.56	0.41
37:BE:53:ARG:CG	37:BE:199:TYR:CE2	3.01	0.41
37:BE:80:ILE:CD1	37:BE:211:ILE:CG2	2.98	0.41
38:BF:77:ILE:HG22	38:BF:78:GLY:N	2.35	0.41
38:BF:84:ILE:C	38:BF:101:LEU:HD13	2.44	0.41
38:BF:134:ILE:HD12	38:BF:134:ILE:N	2.36	0.41
39:BG:177:ASP:OD2	39:BG:179:GLU:HG3	2.20	0.41
40:BH:110:LEU:O	40:BH:115:VAL:CG2	2.68	0.41
40:BH:121:LYS:HG3	40:BH:123:LEU:HD23	2.03	0.41
41:BI:10:LEU:O	41:BI:59:TYR:HB3	2.21	0.41
42:BJ:44:TYR:HE1	44:BL:41:VAL:HG21	1.86	0.41
42:BJ:138:LYS:C	42:BJ:140:ASP:N	2.79	0.41
43:BK:22:GLU:O	43:BK:63:LEU:HD13	2.22	0.41
43:BK:29:SER:HG	43:BK:30:ARG:N	2.19	0.41
43:BK:79:VAL:O	43:BK:81:HIS:N	2.54	0.41
43:BK:97:VAL:HG13	43:BK:98:LYS:HZ1	1.80	0.41
46:BN:40:ILE:O	46:BN:41:THR:HG22	2.21	0.41
46:BN:121:PRO:CB	46:BN:125:PHE:HB2	2.51	0.41
47:BO:24:VAL:HA	47:BO:25:PRO:HD3	1.76	0.41
47:BO:28:LYS:C	47:BO:30:ALA:N	2.75	0.41
47:BO:44:THR:HA	47:BO:45:PRO:HD3	1.77	0.41
48:BP:89:GLY:O	48:BP:93:ARG:CB	2.58	0.41
49:BQ:4:LYS:O	49:BQ:6:LEU:N	2.53	0.41
50:BR:46:HIS:C	50:BR:48:LYS:H	2.29	0.41
50:BR:49:ASP:OD1	50:BR:49:ASP:C	2.64	0.41
51:BS:55:ARG:HE	51:BS:55:ARG:CA	2.24	0.41
52:BT:90:ILE:HA	52:BT:93:GLN:HB2	2.03	0.41
52:BT:91:ARG:HE	52:BT:91:ARG:HB3	1.59	0.41
53:BU:70:ILE:CG2	53:BU:74:ARG:HH21	2.34	0.41
54:BV:29:ARG:O	54:BV:30:LEU:O	2.39	0.41
55:BW:40:ALA:C	55:BW:42:GLN:N	2.76	0.41
1:AB:68:C:C3'	1:AB:69:G:H8	2.29	0.40
1:AB:113:C:H2'	1:AB:114:G:O4'	2.20	0.40
2:AA:48:G:C2	2:AA:178:G:C6	3.09	0.40
2:AA:49:A:N3	2:AA:51:G:N3	2.69	0.40
2:AA:82:G:C5'	2:AA:296:C:OP1	2.69	0.40
2:AA:196:A:C2	2:AA:805:G:C2	3.09	0.40
2:AA:215:G:C1'	2:AA:216:A:C4'	2.99	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:233:A:H2'	2:AA:234:C:C6	2.48	0.40
2:AA:251:A:O2'	2:AA:252:G:P	2.79	0.40
2:AA:270(T):G:H2'	2:AA:270(U):C:O5'	2.21	0.40
2:AA:271(C):U:O2'	2:AA:271:G:C5'	2.68	0.40
2:AA:285:C:C2'	2:AA:286:C:C6	3.03	0.40
2:AA:311:A:C6	2:AA:328:U:O2	2.74	0.40
2:AA:318:C:OP2	2:AA:318:C:H6	2.04	0.40
2:AA:340:A:H8	2:AA:340:A:C5'	2.33	0.40
2:AA:342:G:C2	2:AA:344:G:C2	3.07	0.40
2:AA:346:A:O2'	2:AA:347:A:O5'	2.38	0.40
2:AA:384:U:H6	2:AA:384:U:O5'	2.04	0.40
2:AA:446:G:H8	25:A1:3:ARG:HH22	1.65	0.40
2:AA:498:G:H3'	2:AA:498:G:H8	1.82	0.40
2:AA:518:G:C4	2:AA:519:U:C5	3.09	0.40
2:AA:542:C:C4	2:AA:552:G:N2	2.89	0.40
2:AA:563:G:H2'	25:A1:37:GLN:OE1	2.20	0.40
2:AA:628:G:N1	2:AA:629:G:C6	2.89	0.40
2:AA:654:A:C2	2:AA:655:A:H3'	2.56	0.40
2:AA:656:G:C8	2:AA:656:G:P	3.13	0.40
2:AA:687:C:H2'	2:AA:688:U:O4'	2.19	0.40
2:AA:688:U:O2'	2:AA:689:A:O4'	2.34	0.40
2:AA:729:G:C3'	2:AA:729:G:C4	2.97	0.40
2:AA:817:C:C2	2:AA:1191:G:N2	2.89	0.40
2:AA:825:C:H2'	2:AA:826:U:C6	2.56	0.40
2:AA:880:G:C8	2:AA:880:G:H3'	2.56	0.40
2:AA:929:G:C2'	23:AX:43:ILE:CG1	2.99	0.40
2:AA:933:A:C6	2:AA:934:G:C8	3.08	0.40
2:AA:955:C:C2	2:AA:962:G:N2	2.76	0.40
2:AA:1013:C:C2	2:AA:1014:U:C5	3.09	0.40
2:AA:1140:C:C5'	2:AA:142(A):A:C4	3.04	0.40
2:AA:1157:G:H3'	2:AA:1157:G:P	2.56	0.40
2:AA:1191:G:C8	2:AA:1191:G:C3'	3.04	0.40
2:AA:1194:A:N6	2:AA:1195:G:C6	2.89	0.40
2:AA:1212:G:O2'	2:AA:1213:A:P	2.78	0.40
2:AA:1309:G:N1	2:AA:1310:G:C4	2.89	0.40
2:AA:1368:G:H8	2:AA:1368:G:H5''	1.86	0.40
2:AA:1539:G:O3'	2:AA:1540:G:O4'	2.39	0.40
2:AA:1559:G:N3	2:AA:1559:G:C3'	2.82	0.40
2:AA:1599:C:OP1	19:AT:33:SER:HB2	2.21	0.40
2:AA:1628:G:C2	2:AA:1629:U:C5	3.09	0.40
2:AA:1647:G:H3'	2:AA:1647:G:P	2.61	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1664:A:H61	2:AA:1667:G:H22	1.67	0.40
2:AA:1709:U:N3	2:AA:1750:G:C2	2.89	0.40
2:AA:1729:A:H62	2:AA:1731:G:H1	1.68	0.40
2:AA:1754:C:H2'	2:AA:1754:C:O2	2.20	0.40
2:AA:1786:A:H2	2:AA:2590:A:H1'	1.86	0.40
2:AA:1791:A:C2	2:AA:1829:A:C1'	3.04	0.40
2:AA:1918:A:O2'	2:AA:1919:A:C8	2.74	0.40
2:AA:1924:C:H4'	35:BC:13:C:O2'	2.21	0.40
2:AA:1932:A:C5	2:AA:1969:A:N6	2.89	0.40
2:AA:1971:A:O2'	2:AA:1972:A:P	2.76	0.40
2:AA:1998:G:C6	2:AA:1999:C:C4	3.09	0.40
2:AA:2020:A:C6	2:AA:2022:U:C2	3.09	0.40
2:AA:2091:U:H3'	2:AA:2092:U:C5'	2.51	0.40
2:AA:2113:U:O2	2:AA:2113:U:H2'	2.21	0.40
2:AA:2141:G:N1	2:AA:2151:G:C6	2.89	0.40
2:AA:2290:G:H21	2:AA:2374:C:H5'	1.86	0.40
2:AA:2302:G:H2'	2:AA:2303:G:H8	1.84	0.40
2:AA:2422:A:O2'	2:AA:2424:C:C5	2.73	0.40
2:AA:2439:A:N6	2:AA:2585:U:H5'	2.37	0.40
2:AA:2461:C:H6	2:AA:2461:C:O5'	2.04	0.40
2:AA:2510:C:C2	2:AA:2578:G:N1	2.82	0.40
2:AA:2512:C:H5''	5:AE:219:VAL:HG11	2.02	0.40
2:AA:2512:C:H3'	2:AA:2513:G:H5''	2.03	0.40
2:AA:2569:G:N1	2:AA:2570:G:N7	2.69	0.40
2:AA:2582:G:H2'	2:AA:2583:G:C5'	2.50	0.40
2:AA:2619:C:C2'	2:AA:2619:C:O2	2.68	0.40
2:AA:2712:U:C3'	2:AA:2714:G:OP2	2.50	0.40
2:AA:2721:A:H3'	2:AA:2722:G:C8	2.56	0.40
2:AA:2742:C:C5'	33:A9:35:ARG:NH2	2.84	0.40
2:AA:2815:C:H2'	2:AA:2816:C:H6	1.86	0.40
3:AC:5:LYS:O	3:AC:6:ARG:CB	2.69	0.40
3:AC:76:ALA:HA	3:AC:114:VAL:CG2	2.50	0.40
3:AC:198:ALA:C	3:AC:200:LYS:N	2.79	0.40
3:AC:200:LYS:CA	3:AC:208:PHE:HZ	2.34	0.40
5:AE:79:ARG:HA	5:AE:186:GLU:N	2.37	0.40
5:AE:304:ASP:N	5:AE:304:ASP:OD1	2.53	0.40
6:AF:151:GLN:HA	6:AF:151:GLN:OE1	2.18	0.40
6:AF:163:HIS:O	6:AF:166:ILE:CB	2.67	0.40
7:AG:56:ARG:HG2	7:AG:65:GLU:HB2	2.03	0.40
7:AG:64:ARG:O	7:AG:66:GLY:N	2.52	0.40
7:AG:76:ARG:O	7:AG:77:ASP:O	2.38	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:141:GLY:O	8:AH:144:ALA:HB3	2.21	0.40
8:AH:142:GLU:O	8:AH:143:LEU:C	2.59	0.40
9:AI:78:ARG:NH1	9:AI:85:LEU:HB3	2.35	0.40
9:AJ:50:GLY:HA2	9:AJ:53:GLN:OE1	2.21	0.40
9:AJ:55:GLU:O	9:AJ:56:LYS:CG	2.69	0.40
9:AJ:73:VAL:CA	9:AJ:121:ALA:HB1	2.34	0.40
9:AJ:92:VAL:O	9:AJ:95:ALA:CB	2.69	0.40
9:AJ:127:LEU:H	9:AJ:127:LEU:HD23	1.86	0.40
10:AK:43:ASN:HA	10:AK:46:ALA:CB	2.51	0.40
10:AK:47:LEU:HD11	10:AK:48:GLU:OE1	2.21	0.40
11:AL:15:ALA:HB1	11:AL:50:ALA:HA	2.02	0.40
11:AL:28:LEU:CD1	11:AL:33:VAL:HG21	2.42	0.40
11:AL:56:VAL:HG12	11:AL:57:VAL:N	2.36	0.40
11:AL:97:VAL:HA	11:AL:99:LYS:NZ	2.36	0.40
11:AL:117:ASN:ND2	11:AL:127:ILE:HG12	2.36	0.40
15:AP:28:ILE:HD13	15:AP:62:GLU:OE2	2.20	0.40
16:AQ:111:PRO:C	16:AQ:116:PHE:HB2	2.45	0.40
18:AS:84:ARG:C	18:AS:95:ILE:HG12	2.45	0.40
19:AT:28:VAL:HG22	19:AT:62:LYS:O	2.21	0.40
19:AT:53:ASN:C	19:AT:54:THR:CG2	2.93	0.40
21:AV:123:VAL:CA	21:AV:161:ALA:H	2.29	0.40
22:AW:14:ALA:O	22:AW:17:GLU:HB2	2.20	0.40
23:AX:35:ARG:C	23:AX:36:VAL:CG1	2.94	0.40
23:AX:43:ILE:H	23:AX:43:ILE:HD13	1.77	0.40
24:A0:28:LEU:HD13	24:A0:28:LEU:O	2.19	0.40
25:A1:115:ASN:ND2	25:A1:115:ASN:N	2.69	0.40
27:A3:9:SER:OG	27:A3:10:SER:N	2.54	0.40
27:A3:24:LYS:CG	27:A3:58:THR:HG22	2.51	0.40
27:A3:24:LYS:CD	27:A3:56:ASP:OD2	2.67	0.40
27:A3:36:ILE:CA	27:A3:68:VAL:HG13	2.50	0.40
27:A3:58:THR:C	27:A3:60:PHE:H	2.20	0.40
28:A4:17:GLN:CG	28:A4:33:VAL:HG12	2.43	0.40
28:A4:42:PHE:O	28:A4:57:ASP:CA	2.62	0.40
28:A4:44:THR:N	28:A4:61:LYS:NZ	2.69	0.40
30:A6:36:GLU:HB3	30:A6:52:GLU:HB2	2.03	0.40
30:A6:48:VAL:C	30:A6:50:PHE:CE1	2.99	0.40
32:A8:8:LYS:O	32:A8:9:MET:C	2.63	0.40
32:A8:38:GLY:O	32:A8:41:ILE:CG1	2.62	0.40
34:BA:20:U:C2	34:BA:21:G:C5	3.09	0.40
34:BA:128:G:O5'	34:BA:128:G:C8	2.74	0.40
34:BA:129(A):G:C2'	34:BA:190(E):U:C6	2.98	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:150:C:H2'	34:BA:151:A:O5'	2.21	0.40
34:BA:258:G:C4	34:BA:259:G:C8	3.09	0.40
34:BA:292:G:OP2	34:BA:293:G:N7	2.54	0.40
34:BA:360:A:N1	34:BA:361:G:C4	2.89	0.40
34:BA:401:C:H2'	34:BA:402:G:C8	2.54	0.40
34:BA:460:A:C6	34:BA:462:G:C4	3.08	0.40
34:BA:560:U:O5'	34:BA:566:G:N2	2.55	0.40
34:BA:579:G:O5'	34:BA:579:G:C8	2.68	0.40
34:BA:598:U:O4'	43:BK:94:TYR:CD2	2.62	0.40
34:BA:663:A:N6	34:BA:664:G:C6	2.89	0.40
34:BA:689:C:N3	34:BA:690:G:C4	2.89	0.40
34:BA:815:A:N3	34:BA:1529:G:C2	2.89	0.40
34:BA:823:G:C8	34:BA:823:G:H3'	2.56	0.40
34:BA:828:A:H5'	34:BA:859:A:N1	2.36	0.40
34:BA:859:A:N7	34:BA:860:A:C8	2.88	0.40
34:BA:905:U:O5'	34:BA:905:U:H6	2.03	0.40
34:BA:980:C:C4	34:BA:981:U:C2	3.09	0.40
34:BA:986:A:C6	34:BA:987:G:C6	3.09	0.40
34:BA:1006:C:C5	34:BA:1006:C:OP2	2.74	0.40
34:BA:1011:G:C5	34:BA:1012:U:C6	3.09	0.40
34:BA:1021:G:H2'	34:BA:1022:G:C4'	2.51	0.40
34:BA:1102:A:O2'	37:BE:98:LEU:HD12	2.22	0.40
34:BA:1139:G:H4'	34:BA:1139:G:OP2	2.21	0.40
34:BA:1298:C:H2'	42:BJ:114:ARG:NH1	2.35	0.40
34:BA:1346:A:HO2'	34:BA:1347:G:P	2.40	0.40
34:BA:1406:U:O2	34:BA:1407:C:O4'	2.40	0.40
34:BA:1431:C:N3	34:BA:1432:G:H1'	2.36	0.40
34:BA:1436:U:O5'	34:BA:1436:U:H6	2.03	0.40
34:BA:1454:G:C4	34:BA:1455:G:N7	2.89	0.40
34:BA:1468:A:O5'	34:BA:1468:A:C8	2.71	0.40
34:BA:1470:G:C6	34:BA:1471:G:C5	3.10	0.40
34:BA:1490:C:H2'	34:BA:1491:G:C5'	2.51	0.40
35:BB:12:U:N3	35:BB:24:G:N1	2.66	0.40
35:BB:60:C:OP1	35:BB:61:C:C6	2.74	0.40
35:BC:37:G:C4	35:BC:38:A:C8	3.09	0.40
36:B1:46:A:H3'	36:B1:47:U:C5'	2.52	0.40
36:B1:65:U:HO2'	36:B1:66:G:H8	1.60	0.40
37:BE:35:GLU:N	37:BE:36:ARG:NH1	2.69	0.40
37:BE:42:ILE:HG12	37:BE:43:ASP:H	1.86	0.40
37:BE:55:PHE:HD2	37:BE:221:LEU:HB2	1.86	0.40
37:BE:77:ALA:C	37:BE:80:ILE:HB	2.42	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:80:ILE:CD1	37:BE:211:ILE:HG21	2.47	0.40
37:BE:165:VAL:CG2	37:BE:166:ASP:H	2.26	0.40
38:BF:32:LEU:O	38:BF:35:GLU:HB3	2.20	0.40
38:BF:43:LEU:O	38:BF:47:LEU:CD2	2.69	0.40
38:BF:59:ARG:CZ	38:BF:64:VAL:CG2	2.93	0.40
39:BG:76:ARG:O	39:BG:79:PHE:CB	2.59	0.40
39:BG:154:ASN:O	39:BG:159:ARG:NH1	2.54	0.40
40:BH:106:PRO:O	40:BH:109:ILE:HG22	2.21	0.40
40:BH:133:TYR:O	40:BH:134:ALA:C	2.64	0.40
41:BI:3:ARG:HA	41:BI:66:GLU:HA	2.02	0.40
42:BJ:72:ARG:HH22	42:BJ:138:LYS:NZ	2.14	0.40
42:BJ:152:ALA:C	42:BJ:154:TYR:N	2.80	0.40
43:BK:26:VAL:CG2	43:BK:27:PRO:CD	2.86	0.40
43:BK:36:LEU:HD11	43:BK:59:LEU:CD2	2.51	0.40
43:BK:46:LYS:HD2	43:BK:63:LEU:O	2.21	0.40
43:BK:95:VAL:HG23	43:BK:99:GLU:HB2	2.04	0.40
43:BK:97:VAL:CG1	43:BK:99:GLU:HG3	2.50	0.40
44:BL:47:LEU:O	44:BL:50:LEU:N	2.53	0.40
44:BL:50:LEU:HD23	44:BL:58:ARG:HH11	1.86	0.40
44:BL:118:LYS:O	44:BL:119:ALA:C	2.61	0.40
45:BM:76:ASN:N	45:BM:77:PRO:HD3	2.36	0.40
45:BM:82:ILE:O	45:BM:82:ILE:HG22	2.21	0.40
46:BN:14:VAL:O	46:BN:14:VAL:CG1	2.70	0.40
46:BN:21:ILE:CG2	46:BN:30:VAL:HG22	2.48	0.40
47:BO:97:ARG:HB3	47:BO:98:TYR:CD1	2.55	0.40
48:BP:52:GLU:O	48:BP:56:LEU:CG	2.56	0.40
48:BP:53:VAL:O	48:BP:55:ARG:N	2.53	0.40
49:BQ:58:LYS:HE3	49:BQ:59:ALA:O	2.22	0.40
50:BR:40:SER:C	50:BR:44:LYS:CE	2.95	0.40
50:BR:41:GLU:O	50:BR:42:HIS:C	2.63	0.40
51:BS:38:TYR:O	51:BS:49:LEU:HD12	2.20	0.40
51:BS:57:ARG:HG2	51:BS:79:VAL:HG13	2.03	0.40
54:BV:22:LEU:HD23	54:BV:25:LYS:CE	2.51	0.40
54:BV:55:LYS:HG2	54:BV:56:GLN:HE21	1.86	0.40
55:BW:72:LEU:HD13	55:BW:77:ALA:CA	2.50	0.40
56:BX:9:ARG:NH1	56:BX:21:TYR:CB	2.83	0.40
1:AB:81:G:H2'	1:AB:82:G:H5'	2.03	0.40
2:AA:48:G:H1'	2:AA:178:G:H21	1.86	0.40
2:AA:95:G:C1'	22:AW:42:ASN:HB3	2.50	0.40
2:AA:243:U:O4	2:AA:255:A:N7	2.54	0.40
2:AA:270(E):G:C6	2:AA:270(U):C:N4	2.87	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:292:C:C5	2:AA:293:U:O4	2.72	0.40
2:AA:324:A:H61	2:AA:339:U:H1'	1.62	0.40
2:AA:352:G:C5	2:AA:353:G:N7	2.89	0.40
2:AA:412:A:H2'	2:AA:413:C:C4'	2.49	0.40
2:AA:428:A:C5	2:AA:429:A:N7	2.89	0.40
2:AA:434:U:H2'	2:AA:435:C:OP2	2.20	0.40
2:AA:479:A:O2'	2:AA:480:A:C4'	2.69	0.40
2:AA:521:G:H2'	2:AA:522:G:C8	2.57	0.40
2:AA:578:A:H2'	2:AA:579:G:H5''	2.02	0.40
2:AA:586:A:N1	2:AA:1254:A:C2	2.88	0.40
2:AA:659:C:C2	2:AA:660:G:N7	2.90	0.40
2:AA:673:C:C4'	6:AF:82:GLN:OE1	2.69	0.40
2:AA:716:A:H2'	2:AA:717:G:O4'	2.21	0.40
2:AA:775:G:N2	2:AA:787:U:O2'	2.55	0.40
2:AA:777:A:H2'	2:AA:778:G:O5'	2.21	0.40
2:AA:826:U:H2'	2:AA:828:U:C2	2.56	0.40
2:AA:835:A:C6	2:AA:836:G:C5	3.08	0.40
2:AA:860:U:C4	2:AA:917:A:N6	2.78	0.40
2:AA:873:G:H5'	15:AP:31:PHE:C	2.44	0.40
2:AA:911:A:H8	2:AA:2264:C:C1'	2.22	0.40
2:AA:957:A:C8	2:AA:957:A:H5''	2.56	0.40
2:AA:1019:U:P	2:AA:1120:G:N2	2.95	0.40
2:AA:1056:G:H21	2:AA:1104:C:H42	1.69	0.40
2:AA:1057:A:C4	2:AA:1058:G:N7	2.90	0.40
2:AA:1058:G:C6	2:AA:1081:U:O2	2.75	0.40
2:AA:1072:C:OP2	2:AA:1073:A:OP1	2.38	0.40
2:AA:1082:U:O4'	11:AL:118:ALA:HB2	2.21	0.40
2:AA:1140:C:N4	12:AM:49:ARG:NH1	2.69	0.40
2:AA:1186:G:C8	2:AA:1187:G:N7	2.89	0.40
2:AA:1197:G:C6	2:AA:1198:U:H5	2.30	0.40
2:AA:1265:A:O4'	2:AA:1267:U:N3	2.54	0.40
2:AA:1364:G:C8	28:A4:3:LYS:HE2	2.56	0.40
2:AA:1387:C:O2	2:AA:1388:G:C8	2.75	0.40
2:AA:1450:C:C2	2:AA:1461:G:N2	2.77	0.40
2:AA:1472:A:C8	2:AA:1474:C:H5	2.40	0.40
2:AA:1545:A:H3'	2:AA:545(A):A:C8	2.56	0.40
2:AA:1561:G:H2'	2:AA:1562:A:O5'	2.22	0.40
2:AA:1579:A:H2'	2:AA:1580:A:C4'	2.50	0.40
2:AA:1623:G:H2'	2:AA:1624:G:H5'	2.03	0.40
2:AA:1650:G:H2'	2:AA:1651:G:O5'	2.22	0.40
2:AA:1664:A:C8	2:AA:1664:A:OP2	2.74	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1672:C:N4	2:AA:1673:U:C4	2.89	0.40
2:AA:1673:U:O2'	2:AA:1674:G:P	2.79	0.40
2:AA:1702:G:O2'	34:BA:1473:A:HI'	2.22	0.40
2:AA:1754:C:O2	2:AA:1754:C:C2'	2.67	0.40
2:AA:1768:U:C2	2:AA:1985:G:C2	3.09	0.40
2:AA:1831:G:C6	2:AA:1832:C:N4	2.89	0.40
2:AA:1914:C:N3	2:AA:1915:U:H5	2.18	0.40
2:AA:2004:G:C8	2:AA:2005:A:C8	3.09	0.40
2:AA:2042:A:H2'	2:AA:2043:C:H5'	2.02	0.40
2:AA:2056:G:C2	2:AA:2057:A:N9	2.89	0.40
2:AA:2177:C:H2'	2:AA:2178:C:H6	1.81	0.40
2:AA:2190:G:C2	2:AA:2191:G:N7	2.89	0.40
2:AA:2210:G:H8	4:AD:149:ARG:HH22	1.68	0.40
2:AA:2215:G:N1	2:AA:2216:G:C6	2.89	0.40
2:AA:2256:G:O5'	27:A3:5:LYS:NZ	2.55	0.40
2:AA:2256:G:N2	2:AA:2257:U:HI'	2.36	0.40
2:AA:2277:G:C6	2:AA:2278:A:C5	3.10	0.40
2:AA:2473:U:C4	2:AA:2474:C:C4	3.09	0.40
2:AA:2523:G:N1	2:AA:2541:A:C2	2.90	0.40
2:AA:2528:U:O2	2:AA:2536:G:C2	2.73	0.40
2:AA:2588:G:O6	2:AA:2589:A:C5	2.75	0.40
2:AA:2592:G:N2	2:AA:2603:G:C5	2.90	0.40
2:AA:2743:C:O2'	2:AA:2744:G:O5'	2.38	0.40
2:AA:2746:U:O4'	8:AH:142:GLU:OE2	2.38	0.40
2:AA:2792:G:C6	2:AA:2804:C:N4	2.88	0.40
2:AA:2807:G:C2'	2:AA:2808:U:O5'	2.68	0.40
2:AA:2814:C:H2'	2:AA:2815:C:H6	1.84	0.40
2:AA:2818:G:C2	2:AA:2829:C:C4	3.09	0.40
2:AA:2853:C:H2'	2:AA:2854:G:H8	1.87	0.40
3:AC:20:TYR:CD1	3:AC:222:VAL:HG13	2.57	0.40
3:AC:24:GLU:HG2	3:AC:25:ALA:N	2.33	0.40
3:AC:29:VAL:HG21	3:AC:41:VAL:HG22	2.03	0.40
3:AC:77:ILE:CD1	3:AC:123:VAL:CG2	2.99	0.40
3:AC:164:ARG:O	3:AC:164:ARG:HG3	2.21	0.40
3:AC:200:LYS:CB	3:AC:208:PHE:CE1	3.03	0.40
4:AD:90:ILE:CD1	4:AD:105:ALA:HB2	2.48	0.40
4:AD:164:LEU:O	4:AD:172:ILE:CG2	2.69	0.40
5:AE:80:ALA:N	5:AE:185:GLY:O	2.54	0.40
6:AF:110:ALA:C	6:AF:112:ARG:N	2.75	0.40
8:AH:34:ARG:HH11	8:AH:70:LEU:HD22	1.85	0.40
8:AH:36:PHE:CE2	8:AH:71:LEU:CD2	3.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:58:LYS:HA	8:AH:61:ARG:NH1	2.36	0.40
9:AI:61:VAL:HG22	9:AI:115:LYS:CE	2.51	0.40
9:AI:72:GLN:H	9:AI:72:GLN:HG2	1.59	0.40
10:AK:6:LEU:C	10:AK:14:LYS:HD3	2.46	0.40
10:AK:69:LYS:HG2	10:AK:73:GLU:OE1	2.21	0.40
10:AK:78:THR:HA	10:AK:144:HIS:CD2	2.55	0.40
10:AK:110:LEU:O	10:AK:111:ASP:O	2.40	0.40
12:AM:90:LYS:C	12:AM:91:LYS:O	2.64	0.40
13:AN:15:GLY:HA3	13:AN:52:VAL:HG23	2.02	0.40
13:AN:85:VAL:HG11	13:AN:93:PRO:HB3	2.02	0.40
13:AN:87:ILE:HG23	13:AN:92:SER:C	2.46	0.40
13:AN:111:PHE:O	13:AN:114:ILE:HB	2.22	0.40
13:AN:117:LEU:O	13:AN:118:ALA:C	2.64	0.40
14:AO:52:LYS:HE2	14:AO:53:ARG:NH1	2.34	0.40
14:AO:113:GLN:CB	14:AO:115:ARG:NH2	2.85	0.40
15:AP:17:ARG:N	15:AP:17:ARG:CD	2.84	0.40
15:AP:53:PRO:O	15:AP:53:PRO:CG	2.68	0.40
15:AP:116:HIS:CD2	15:AP:119:ASN:HB3	2.56	0.40
16:AQ:38:LYS:HZ2	16:AQ:114:LYS:HB2	1.86	0.40
16:AQ:120:GLU:HA	16:AQ:123:ILE:HG13	2.00	0.40
18:AS:59:VAL:HA	18:AS:63:ASP:CA	2.47	0.40
18:AS:86:LEU:HD13	18:AS:87:PRO:HD3	2.02	0.40
19:AT:47:VAL:HG11	19:AT:69:SER:HB3	2.02	0.40
20:AU:41:ARG:HD3	20:AU:111:ARG:HG3	2.03	0.40
21:AV:66:VAL:HG21	21:AV:69:VAL:HG22	1.98	0.40
21:AV:125:PRO:N	21:AV:159:THR:HG21	2.36	0.40
21:AV:132:GLN:O	21:AV:133:GLU:OE2	2.40	0.40
22:AW:12:THR:O	22:AW:16:ARG:HG3	2.21	0.40
24:A0:59:ASP:HB2	24:A0:60:LEU:HD23	2.03	0.40
24:A0:99:LYS:C	29:A5:44:HIS:CD2	2.99	0.40
25:A1:91:ASN:C	25:A1:95:LEU:HD21	2.43	0.40
25:A1:92:ARG:CA	25:A1:95:LEU:HG	2.51	0.40
26:A2:68:LYS:HA	26:A2:91:THR:HG22	2.03	0.40
27:A3:18:PRO:O	27:A3:19:LYS:HB2	2.21	0.40
27:A3:28:GLY:CA	27:A3:60:PHE:CB	2.96	0.40
27:A3:82:GLU:C	27:A3:84:ALA:N	2.80	0.40
29:A5:56:GLN:O	29:A5:57:VAL:CB	2.69	0.40
34:BA:43:C:C5'	51:BS:12:LYS:HB3	2.43	0.40
34:BA:110:C:C2	34:BA:111:G:C1'	3.04	0.40
34:BA:291:C:O2'	34:BA:292:G:H5'	2.21	0.40
34:BA:314:C:C2'	34:BA:315:A:C1'	2.98	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:382:A:C2'	34:BA:383:A:O5'	2.69	0.40
34:BA:419:C:C2'	34:BA:420:U:H5'	2.49	0.40
34:BA:434:U:O2'	34:BA:435:C:H5'	2.21	0.40
34:BA:522:C:H3'	34:BA:522:C:C6	2.56	0.40
34:BA:529:G:C5	47:BO:49:ASN:ND2	2.89	0.40
34:BA:538:G:O5'	47:BO:115:LYS:HG2	2.21	0.40
34:BA:570:G:H2'	34:BA:571:U:C5	2.56	0.40
34:BA:617:G:C6	34:BA:624:C:C4	3.10	0.40
34:BA:640:A:C2'	34:BA:641:U:C5'	2.84	0.40
34:BA:652:U:C4	34:BA:752:G:N3	2.89	0.40
34:BA:668:G:C2'	50:BR:46:HIS:CE1	3.05	0.40
34:BA:675:A:H2'	34:BA:676:A:O4'	2.20	0.40
34:BA:784:C:H2'	34:BA:785:G:O5'	2.21	0.40
34:BA:816:A:O2'	34:BA:817:C:OP2	2.34	0.40
34:BA:827:U:H2'	34:BA:870:U:O4	2.21	0.40
34:BA:894:G:H2'	34:BA:895:G:O4'	2.22	0.40
34:BA:943:U:C2'	34:BA:944:G:H5'	2.49	0.40
34:BA:963:G:C6	34:BA:973:G:O6	2.74	0.40
34:BA:971:G:C2'	34:BA:1365:G:O2'	2.68	0.40
34:BA:1102:A:C6	34:BA:1103:C:C4	3.09	0.40
34:BA:1157:A:N9	34:BA:1181:G:C2	2.89	0.40
34:BA:1166:G:C2	34:BA:1168:A:P	3.15	0.40
34:BA:1257:U:H2'	34:BA:1258:G:OP2	2.22	0.40
34:BA:1269:A:C4	34:BA:1313:U:H1'	2.56	0.40
34:BA:1319:A:H3'	34:BA:1319:A:C8	2.56	0.40
34:BA:1352:C:C2	34:BA:1353:G:C5	3.10	0.40
34:BA:1413:A:N6	34:BA:1488:G:C6	2.89	0.40
34:BA:1429:C:H2'	34:BA:1430:C:C6	2.56	0.40
34:BA:1462:G:C6	34:BA:1463:C:N4	2.89	0.40
34:BA:1474:G:C6	34:BA:1475:G:N7	2.90	0.40
34:BA:1516:G:C4	34:BA:1520:G:N2	2.89	0.40
35:BB:11:C:C2'	35:BB:12:U:O5'	2.70	0.40
35:BC:29:A:N6	35:BC:41:U:H3	2.19	0.40
37:BE:97:TRP:NE1	37:BE:102:LEU:HD11	2.34	0.40
38:BF:8:ILE:O	38:BF:9:GLY:C	2.64	0.40
38:BF:8:ILE:CG2	49:BQ:50:LYS:O	2.68	0.40
38:BF:35:GLU:OE1	38:BF:95:THR:CG2	2.69	0.40
38:BF:59:ARG:HB2	38:BF:59:ARG:HE	1.56	0.40
38:BF:188:LEU:CD1	38:BF:190:ARG:HG2	2.51	0.40
39:BG:29:PRO:C	39:BG:34:GLU:HB3	2.45	0.40
39:BG:108:LEU:O	39:BG:109:GLY:C	2.63	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BG:110:PHE:HZ	39:BG:181:MET:O	2.04	0.40
39:BG:113:SER:C	39:BG:115:ARG:N	2.76	0.40
39:BG:153:ARG:HG3	39:BG:153:ARG:H	1.54	0.40
40:BH:48:ALA:HB1	40:BH:53:LEU:CB	2.51	0.40
42:BJ:49:ILE:HG22	42:BJ:125:MET:HE1	2.03	0.40
42:BJ:69:VAL:HB	42:BJ:104:LEU:HD11	2.04	0.40
43:BK:1:MET:HG2	43:BK:2:LEU:N	2.36	0.40
43:BK:20:TYR:HE1	43:BK:78:GLN:NE2	2.18	0.40
43:BK:22:GLU:HA	43:BK:63:LEU:CG	2.50	0.40
43:BK:87:SER:O	43:BK:92:ARG:HD2	2.21	0.40
44:BL:22:GLY:N	44:BL:59:PHE:HA	2.36	0.40
44:BL:48:GLU:OE1	44:BL:51:ARG:NE	2.42	0.40
44:BL:54:ASP:O	44:BL:55:ALA:HB2	2.20	0.40
44:BL:82:ALA:HB2	44:BL:101:PHE:CD2	2.56	0.40
46:BN:20:TYR:O	46:BN:30:VAL:HA	2.21	0.40
46:BN:81:ASP:OD1	46:BN:106:LYS:CB	2.69	0.40
46:BN:110:ASP:CB	53:BU:88:LYS:HG3	2.29	0.40
46:BN:119:CYS:O	46:BN:120:ARG:C	2.65	0.40
47:BO:75:HIS:CG	47:BO:77:LEU:CD1	3.04	0.40
47:BO:117:ARG:CZ	47:BO:124:LYS:HB2	2.51	0.40
48:BP:24:GLY:C	48:BP:66:LEU:HD13	2.46	0.40
48:BP:24:GLY:C	48:BP:66:LEU:HD22	2.45	0.40
48:BP:69:GLU:O	48:BP:69:GLU:HG2	2.21	0.40
48:BP:77:ASN:CG	48:BP:78:ILE:N	2.79	0.40
48:BP:91:ARG:O	48:BP:96:LEU:HD23	2.21	0.40
48:BP:100:GLY:O	48:BP:101:GLN:O	2.39	0.40
50:BR:35:ARG:O	50:BR:36:ILE:C	2.62	0.40
52:BT:53:LEU:HG	52:BT:54:GLY:N	2.32	0.40
52:BT:101:ARG:HB2	52:BT:102:GLY:H	1.73	0.40
54:BV:11:VAL:CG1	54:BV:16:LEU:HD13	2.51	0.40
54:BV:25:LYS:C	54:BV:27:GLU:N	2.79	0.40
55:BW:50:GLU:CB	55:BW:99:LEU:HB2	2.50	0.40
1:AB:12:C:H5''	27:A3:53:MET:SD	2.62	0.40
1:AB:24:G:H4'	1:AB:25:A:C8	2.56	0.40
1:AB:24:G:C2'	1:AB:25:A:OP2	2.69	0.40
1:AB:28:C:OP2	16:AQ:42:HIS:NE2	2.54	0.40
1:AB:62:C:O2	1:AB:63:G:C8	2.75	0.40
1:AB:69:G:C2	1:AB:70:C:C5	3.09	0.40
1:AB:89:G:N2	1:AB:89(A):A:N1	2.70	0.40
2:AA:23:G:C2'	2:AA:24:G:C5'	2.84	0.40
2:AA:41:C:C2	2:AA:43:G:C8	3.09	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:107:C:O3'	2:AA:293:U:O2	2.39	0.40
2:AA:131:G:N2	2:AA:132:G:C5	2.90	0.40
2:AA:252:G:H21	2:AA:253:C:H1'	1.86	0.40
2:AA:270(M):U:O3'	2:AA:270(N):G:C4'	2.69	0.40
2:AA:273(D):C:C2'	2:AA:273(E):U:C5'	2.94	0.40
2:AA:279:C:C6	2:AA:279:C:C3'	3.05	0.40
2:AA:302:C:O2'	2:AA:303:U:O5'	2.38	0.40
2:AA:306:U:C5	2:AA:307:G:C4	3.09	0.40
2:AA:398:G:N3	2:AA:399:G:H1'	2.36	0.40
2:AA:461:C:N3	2:AA:468:G:C6	2.90	0.40
2:AA:581:C:H2'	2:AA:582:G:H8	1.82	0.40
2:AA:602:G:C4'	2:AA:603:A:O2'	2.67	0.40
2:AA:609:A:N1	2:AA:619:G:C2	2.90	0.40
2:AA:696:G:C4	2:AA:697:C:C5	3.09	0.40
2:AA:751:A:N1	2:AA:789:A:N6	2.70	0.40
2:AA:793:A:C2'	2:AA:794:G:OP2	2.69	0.40
2:AA:850:C:H2'	2:AA:850:C:O2	2.21	0.40
2:AA:858:U:C2'	2:AA:2268:A:O2'	2.70	0.40
2:AA:858:U:C3'	2:AA:858:U:C6	3.05	0.40
2:AA:868:U:O2	2:AA:909:A:N1	2.54	0.40
2:AA:1063:G:H2'	2:AA:1064:C:C5	2.56	0.40
2:AA:1087:G:O3'	2:AA:1089:G:H5'	2.21	0.40
2:AA:1097:U:C2	2:AA:1098:A:C8	3.09	0.40
2:AA:1143:A:N1	2:AA:1144:G:C5	2.89	0.40
2:AA:1160:G:N7	2:AA:1161:C:N4	2.70	0.40
2:AA:1180:C:O2'	2:AA:1181:C:P	2.80	0.40
2:AA:1180:C:C2	2:AA:1181:C:C5	3.09	0.40
2:AA:1202:C:H1'	2:AA:1244:G:H22	1.84	0.40
2:AA:1326:U:C6	2:AA:1326:U:OP2	2.73	0.40
2:AA:1370:C:C4	2:AA:1371:G:C8	3.09	0.40
2:AA:1407:C:C2'	2:AA:1408:C:O5'	2.69	0.40
2:AA:1499:C:O2'	2:AA:1500:G:C5'	2.70	0.40
2:AA:1560:G:C6	2:AA:1561:G:C4	3.09	0.40
2:AA:1566:A:C2	4:AD:212:HIS:CA	3.04	0.40
2:AA:1582:C:N3	2:AA:1583:A:N3	2.68	0.40
2:AA:1615:C:H5	2:AA:1617:C:C4	2.39	0.40
2:AA:1764:G:C2'	2:AA:1765:C:O5'	2.70	0.40
2:AA:1779:U:O2	2:AA:1783:A:N6	2.55	0.40
2:AA:1825:A:N6	2:AA:1826:G:O6	2.54	0.40
2:AA:1854:A:H2'	2:AA:1855:G:C5'	2.42	0.40
2:AA:1889:A:C2	2:AA:2234:G:H1'	2.56	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1904:G:H2'	2:AA:1905:C:C5'	2.51	0.40
2:AA:1950:G:C6	2:AA:1951:U:C5	2.97	0.40
2:AA:1995:U:H5	2:AA:1996:C:C5	2.31	0.40
2:AA:2074:U:O2'	2:AA:2598:A:C1'	2.69	0.40
2:AA:2075:U:N3	2:AA:2238:G:N1	2.70	0.40
2:AA:2090:G:H2'	2:AA:2091:U:C5	2.56	0.40
2:AA:2093:G:O2'	10:AK:29:PHE:CZ	2.67	0.40
2:AA:2093:G:C8	2:AA:2225:A:C5	3.10	0.40
2:AA:2122:U:C2'	2:AA:2123:G:C5'	2.94	0.40
2:AA:2125:G:OP1	3:AC:108:MET:CE	2.70	0.40
2:AA:2179:C:O5'	2:AA:2179:C:H6	2.03	0.40
2:AA:2224:G:C8	2:AA:2224:G:C3'	3.05	0.40
2:AA:2295:C:H2'	2:AA:2296:U:H4'	2.03	0.40
2:AA:2341:G:C6	2:AA:2342:C:N4	2.89	0.40
2:AA:2378:A:C2'	16:AQ:26:LEU:HD21	2.51	0.40
2:AA:2415:G:C2	2:AA:2416:C:N1	2.89	0.40
2:AA:2449:U:O4'	2:AA:2449:U:P	2.76	0.40
2:AA:2466:C:O2	2:AA:2485:G:N3	2.54	0.40
2:AA:2472:G:C3'	2:AA:2475:C:H42	2.30	0.40
2:AA:2507:C:C4	2:AA:2582:G:N2	2.84	0.40
2:AA:2560:C:H42	2:AA:2561:A:N6	2.20	0.40
2:AA:2583:G:H8	2:AA:2583:G:O5'	2.04	0.40
2:AA:2588:G:C3'	2:AA:2589:A:H5'	2.51	0.40
2:AA:2617:C:O2'	5:AE:245:ARG:NH1	2.54	0.40
2:AA:2736:G:C6	2:AA:2737:G:C6	3.08	0.40
2:AA:2742:C:O2	2:AA:2742:C:C2'	2.69	0.40
2:AA:2759:G:O2'	2:AA:2760:C:H5'	2.22	0.40
2:AA:2776:A:N7	2:AA:2782:G:C8	2.89	0.40
2:AA:2791:C:H5	2:AA:2807:G:N1	2.19	0.40
2:AA:2867:G:H4'	2:AA:2868:A:O5'	2.22	0.40
2:AA:2878:U:O2'	2:AA:2879:C:P	2.79	0.40
3:AC:19:ILE:CD1	3:AC:223:ARG:HG2	2.51	0.40
3:AC:104:LEU:HD22	3:AC:126:LYS:CE	2.51	0.40
3:AC:149:ILE:HG23	3:AC:150:GLY:N	2.35	0.40
3:AC:190:ARG:O	3:AC:193:ILE:N	2.54	0.40
4:AD:78:ALA:CB	4:AD:94:ASN:HD21	2.32	0.40
4:AD:85:ASN:HB2	4:AD:86:ARG:CZ	2.51	0.40
4:AD:202:LYS:O	4:AD:204:PHE:CE1	2.74	0.40
6:AF:157:LEU:C	6:AF:159:ALA:N	2.76	0.40
6:AF:239:ALA:C	6:AF:242:GLU:HG3	2.45	0.40
8:AH:11:PRO:O	8:AH:14:VAL:HB	2.22	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:88:LEU:CD1	8:AH:95:ALA:HB3	2.43	0.40
8:AH:158:GLY:O	8:AH:159:LYS:HB3	2.19	0.40
9:AI:115:LYS:HZ3	9:AI:127:LEU:HD13	1.79	0.40
9:AJ:113:GLU:O	9:AJ:116:LYS:HB2	2.20	0.40
10:AK:11:GLY:O	10:AK:12:LYS:HB2	2.20	0.40
11:AL:38:PHE:HD2	11:AL:58:ILE:HG21	1.86	0.40
11:AL:112:LYS:O	11:AL:114:PRO:CD	2.70	0.40
12:AM:52:GLN:CG	12:AM:55:GLU:OE2	2.68	0.40
12:AM:56:LYS:O	12:AM:59:LYS:N	2.55	0.40
13:AN:46:ALA:N	13:AN:54:LYS:HE2	2.36	0.40
15:AP:28:ILE:CG2	15:AP:62:GLU:HG2	2.51	0.40
15:AP:45:GLN:OE1	15:AP:152:SER:HB3	2.20	0.40
15:AP:94:ARG:CD	15:AP:106:GLY:HA2	2.52	0.40
15:AP:146:THR:O	15:AP:147:VAL:O	2.39	0.40
16:AQ:38:LYS:NZ	16:AQ:114:LYS:CB	2.84	0.40
16:AQ:46:GLN:CB	16:AQ:57:THR:HG21	2.51	0.40
16:AQ:47:LEU:HD12	16:AQ:58:LEU:HD23	2.02	0.40
16:AQ:87:LEU:N	16:AQ:87:LEU:HD22	2.36	0.40
18:AS:54:ALA:O	18:AS:57:ASN:HB3	2.21	0.40
18:AS:88:ARG:CB	18:AS:91:GLY:H	2.35	0.40
19:AT:8:PRO:HA	19:AT:26:PHE:HD2	1.87	0.40
19:AT:18:MET:CA	19:AT:24:LEU:HA	2.51	0.40
20:AU:50:VAL:O	20:AU:57:GLY:N	2.55	0.40
20:AU:74:VAL:HG12	20:AU:76:ASP:H	1.87	0.40
20:AU:81:LYS:NZ	20:AU:83:ASP:HB2	2.37	0.40
21:AV:51:LEU:HD11	21:AV:64:ALA:CA	2.46	0.40
21:AV:72:ASP:OD2	21:AV:79:ILE:N	2.51	0.40
22:AW:60:GLN:OE1	22:AW:61:GLY:N	2.54	0.40
23:AX:4:LEU:O	23:AX:36:VAL:HA	2.22	0.40
23:AX:16:PRO:HB2	23:AX:19:GLN:CD	2.46	0.40
24:A0:73:VAL:HG12	24:A0:77:ARG:HD3	2.01	0.40
24:A0:111:LEU:H	24:A0:111:LEU:HG	1.65	0.40
25:A1:114:ARG:O	25:A1:117:ARG:HD2	2.21	0.40
26:A2:11:GLN:HB3	26:A2:21:ARG:CZ	2.51	0.40
26:A2:88:GLN:O	26:A2:89:ASN:OD1	2.38	0.40
27:A3:49:GLN:H	27:A3:49:GLN:CD	2.05	0.40
28:A4:21:VAL:O	28:A4:22:MET:HB2	2.20	0.40
28:A4:23:GLU:HB2	28:A4:24:THR:H	1.57	0.40
31:A7:20:ALA:HA	31:A7:23:LYS:HE3	2.04	0.40
34:BA:27:G:C8	34:BA:27:G:OP2	2.74	0.40
34:BA:39:G:N7	34:BA:547:A:H8	2.19	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:58:C:C2	34:BA:59:A:C8	3.09	0.40
34:BA:59:A:O2'	34:BA:388:G:H5'	2.22	0.40
34:BA:66:G:O2'	34:BA:67:C:H5'	2.22	0.40
34:BA:132:C:H2'	34:BA:133:U:C6	2.57	0.40
34:BA:142:G:C6	34:BA:222:U:C4	3.09	0.40
34:BA:223:U:C2	34:BA:224:C:C5	3.09	0.40
34:BA:255:G:P	52:BT:69:LYS:NZ	2.95	0.40
34:BA:285:G:N1	34:BA:286:G:C5	2.89	0.40
34:BA:321:A:N7	34:BA:328:C:C4	2.90	0.40
34:BA:392:G:C2	34:BA:393:A:N9	2.89	0.40
34:BA:409:G:C4	34:BA:410:G:N7	2.89	0.40
34:BA:446:G:O2'	34:BA:447:G:H5'	2.21	0.40
34:BA:523:A:H8	34:BA:523:A:C5'	2.34	0.40
34:BA:560:U:C6	34:BA:566:G:N3	2.90	0.40
34:BA:601:C:N3	34:BA:637:G:O6	2.55	0.40
34:BA:609:A:O2'	34:BA:610:G:H5'	2.21	0.40
34:BA:660:G:O2'	34:BA:661:G:O4'	2.32	0.40
34:BA:696:A:H2'	34:BA:697:U:O5'	2.21	0.40
34:BA:729:A:C2	34:BA:730:G:C4	3.09	0.40
34:BA:750:G:C2	50:BR:23:GLY:O	2.74	0.40
34:BA:771:G:N1	34:BA:808:C:O2	2.44	0.40
34:BA:773:G:N1	34:BA:774:G:N7	2.69	0.40
34:BA:791:G:H21	34:BA:1497:G:C5'	2.34	0.40
34:BA:794:A:C2	34:BA:795:C:C4	3.09	0.40
34:BA:953:G:O2'	48:BP:124:PRO:O	2.40	0.40
34:BA:962:C:H2'	34:BA:963:G:C5'	2.52	0.40
34:BA:1003:G:N2	34:BA:3(A):G:C5	2.90	0.40
34:BA:1087:G:H1	34:BA:1098:C:H42	1.70	0.40
34:BA:1175:G:C2	34:BA:1176:A:C5	3.10	0.40
34:BA:1178:G:OP2	34:BA:1178:G:C8	2.74	0.40
34:BA:1232:U:P	44:BL:126:SER:HB3	2.61	0.40
34:BA:1244:C:N3	34:BA:1293:G:N2	2.47	0.40
34:BA:1270:C:O3'	34:BA:1314:C:H5'	2.21	0.40
34:BA:1319:A:OP1	54:BV:70:LYS:HE2	2.21	0.40
34:BA:1381:U:C2'	34:BA:1382:C:O5'	2.61	0.40
34:BA:1384:C:C2	34:BA:1385:G:C8	3.10	0.40
35:BB:6:U:N3	35:BB:7:U:C6	2.90	0.40
35:BB:29:A:C6	35:BB:42:G:N1	2.89	0.40
36:B1:20:A:C2	36:B1:35:C:C2	3.10	0.40
37:BE:39:ILE:CG2	37:BE:40:HIS:N	2.80	0.40
37:BE:84:GLU:OE2	37:BE:87:ARG:NH2	2.54	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BE:127:ILE:C	37:BE:129:GLU:N	2.78	0.40
37:BE:135:GLN:CA	37:BE:139:LYS:HE3	2.50	0.40
38:BF:30:ARG:HD3	49:BQ:36:PHE:O	2.21	0.40
38:BF:60:ALA:O	38:BF:61:ALA:HB2	2.21	0.40
38:BF:87:LEU:O	38:BF:88:ARG:C	2.65	0.40
38:BF:157:ILE:HD12	38:BF:164:ARG:CD	2.50	0.40
39:BG:42:GLN:O	39:BG:43:HIS:ND1	2.54	0.40
39:BG:53:ASP:OD1	39:BG:53:ASP:N	2.38	0.40
39:BG:172:PRO:CG	39:BG:193:ASP:HB2	2.51	0.40
39:BG:177:ASP:OD2	39:BG:179:GLU:CG	2.70	0.40
42:BJ:106:GLN:HE21	42:BJ:106:GLN:HB2	1.50	0.40
43:BK:31:PHE:CD2	43:BK:32:LYS:N	2.89	0.40
43:BK:63:LEU:H	43:BK:63:LEU:HD22	1.86	0.40
45:BM:46:ARG:HD3	45:BM:64:GLU:CB	2.49	0.40
46:BN:45:GLY:HA3	46:BN:55:LYS:HD2	2.03	0.40
46:BN:50:TYR:O	46:BN:55:LYS:HG3	2.22	0.40
46:BN:70:LYS:O	46:BN:73:MET:HB2	2.20	0.40
47:BO:78:GLN:HB2	47:BO:81:SER:OG	2.20	0.40
48:BP:14:ARG:CD	48:BP:41:PRO:O	2.66	0.40
49:BQ:17:LYS:CG	49:BQ:18:VAL:N	2.76	0.40
51:BS:12:LYS:C	51:BS:14:ASN:H	2.30	0.40
51:BS:27:LYS:C	51:BS:29:ASP:H	2.29	0.40
51:BS:39:TYR:CZ	51:BS:41:PRO:CG	2.83	0.40
52:BT:9:VAL:CG1	52:BT:84:LEU:HD12	2.45	0.40
52:BT:10:VAL:HG23	52:BT:55:ASP:HB2	2.02	0.40
52:BT:17:LYS:HA	52:BT:17:LYS:HE2	2.03	0.40
53:BU:63:GLN:O	53:BU:66:LEU:CD1	2.69	0.40
55:BW:63:ILE:HG12	55:BW:72:LEU:CD1	2.50	0.40
1:AB:2:C:C2	1:AB:3:C:C5	3.09	0.40
1:AB:7:G:C6	1:AB:114:G:C6	3.10	0.40
1:AB:13:A:C2	1:AB:69:G:N2	2.68	0.40
1:AB:75:G:O6	1:AB:76:G:C2	2.75	0.40
2:AA:10:G:N2	2:AA:11:G:C4	2.89	0.40
2:AA:31:C:O2	2:AA:31:C:H2'	2.21	0.40
2:AA:35:G:N9	2:AA:454:A:N3	2.69	0.40
2:AA:116:C:H1'	2:AA:127:A:H1'	2.04	0.40
2:AA:202:U:C3'	2:AA:202:U:C6	3.04	0.40
2:AA:207:A:N1	2:AA:208:C:C2	2.89	0.40
2:AA:215:G:H4'	2:AA:216:A:C4'	2.52	0.40
2:AA:270(J):G:C2	2:AA:270(K):C:H1'	2.55	0.40
2:AA:271(C):U:C4'	2:AA:271:G:H5'	2.51	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:285:C:N3	2:AA:356:G:N1	2.69	0.40
2:AA:310:A:OP2	20:AU:53:GLY:C	2.65	0.40
2:AA:363(B):G:H2'	2:AA:363(C):G:O4'	2.22	0.40
2:AA:389:G:C8	2:AA:2413:G:H4'	2.56	0.40
2:AA:424:G:N2	2:AA:425:G:C1'	2.84	0.40
2:AA:466:A:H2'	2:AA:467:G:C4'	2.51	0.40
2:AA:476:G:N2	2:AA:478:A:H3'	2.36	0.40
2:AA:627:A:H2	2:AA:638:G:N2	2.16	0.40
2:AA:671:C:C4	2:AA:809:G:N1	2.81	0.40
2:AA:687:C:C2'	2:AA:688:U:O4'	2.69	0.40
2:AA:699:A:C8	2:AA:700:G:C8	3.09	0.40
2:AA:735:A:N7	2:AA:736:C:C6	2.90	0.40
2:AA:800:A:C8	2:AA:802:A:H5'	2.57	0.40
2:AA:806:C:C6	2:AA:806:C:P	3.15	0.40
2:AA:824:A:N1	2:AA:834:C:N3	2.70	0.40
2:AA:826:U:OP1	2:AA:2428:G:H3'	2.20	0.40
2:AA:872:A:O3'	15:AP:31:PHE:HB2	2.20	0.40
2:AA:894:C:H3'	2:AA:895:U:H5	1.86	0.40
2:AA:962:G:H4'	2:AA:2496:C:O2'	2.21	0.40
2:AA:1024:G:C2	2:AA:1139:G:C2	3.08	0.40
2:AA:1091:G:C2	2:AA:1101:U:N3	2.89	0.40
2:AA:1138:G:OP1	12:AM:82:THR:CG2	2.59	0.40
2:AA:1152:C:OP1	25:A1:84:LYS:HD2	2.22	0.40
2:AA:1168:G:H2'	2:AA:1169:G:C4'	2.50	0.40
2:AA:1181:C:H2'	2:AA:1182:A:C8	2.53	0.40
2:AA:1261:C:C2	2:AA:1262:A:C8	3.10	0.40
2:AA:1265:A:C8	2:AA:1267:U:C4	3.10	0.40
2:AA:1283:G:N2	2:AA:1285:G:C3'	2.84	0.40
2:AA:1342:A:O4'	2:AA:1397:U:O2'	2.39	0.40
2:AA:1364:G:C5'	2:AA:1364:G:C8	2.99	0.40
2:AA:1364:G:C4'	2:AA:1809:A:N7	2.83	0.40
2:AA:1471:A:C5	2:AA:1472:A:N3	2.89	0.40
2:AA:1560:G:C5	2:AA:1561:G:C5	3.10	0.40
2:AA:1569:A:C2	2:AA:1570:A:C4	3.10	0.40
2:AA:1649:G:N2	24:A0:107:ASP:HA	2.36	0.40
2:AA:1661:G:C2'	2:AA:1662:C:O5'	2.70	0.40
2:AA:1673:U:O2'	2:AA:1674:G:C5'	2.70	0.40
2:AA:1684:C:H2'	2:AA:1685:C:C5	2.57	0.40
2:AA:1693:U:H4'	2:AA:1694:C:OP2	2.22	0.40
2:AA:1717:G:C8	2:AA:1743:G:N1	2.90	0.40
2:AA:1765:C:H2'	2:AA:1766:U:C6	2.52	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1793:C:N3	2:AA:1794:U:C5	2.90	0.40
2:AA:1812:A:C2	2:AA:1813:G:C1'	3.05	0.40
2:AA:1818:U:O2	2:AA:1818:U:C2'	2.67	0.40
2:AA:1845:G:H2'	2:AA:1846:G:C5'	2.52	0.40
2:AA:1861:G:H5'	3:AC:205:LYS:NZ	2.36	0.40
2:AA:1878:G:O2'	2:AA:1879:C:C5'	2.63	0.40
2:AA:1930:G:H3'	2:AA:1930:G:H8	1.87	0.40
2:AA:2082:A:N6	2:AA:2239:G:O6	2.55	0.40
2:AA:2097:C:C5	2:AA:2193:G:N1	2.90	0.40
2:AA:2111:C:H5	2:AA:2120:G:C4'	2.34	0.40
2:AA:2135:A:N6	2:AA:2150:U:H2'	2.37	0.40
2:AA:2135:A:O2'	2:AA:2154:G:O6	2.36	0.40
2:AA:2139:C:O2	2:AA:2139:C:C2'	2.68	0.40
2:AA:2313:C:HO2'	2:AA:2314:C:H5'	1.86	0.40
2:AA:2383:G:H2'	2:AA:2384:G:C8	2.57	0.40
2:AA:2397:G:H22	2:AA:2420:C:C1'	2.30	0.40
2:AA:2495:G:O5'	2:AA:2495:G:H8	2.04	0.40
2:AA:2603:G:C4	2:AA:2604:U:C6	3.10	0.40
2:AA:2653:U:N3	2:AA:2654:A:C6	2.90	0.40
2:AA:2696:U:O2'	2:AA:2697:G:C5'	2.70	0.40
2:AA:2725:A:O2'	2:AA:2726:U:O5'	2.32	0.40
2:AA:2779:U:H4'	2:AA:2781:A:N7	2.33	0.40
2:AA:2786:U:H2'	2:AA:2787:C:O4'	2.22	0.40
2:AA:2817:G:C5	2:AA:2818:G:C8	3.10	0.40
3:AC:61:THR:CG2	3:AC:162:GLU:HG2	2.52	0.40
3:AC:133:PRO:HG2	3:AC:134:ARG:HH11	1.86	0.40
3:AC:171:ILE:HG21	3:AC:196:LEU:CD2	2.52	0.40
3:AC:177:LYS:HB2	3:AC:180:PHE:HB2	2.02	0.40
3:AC:194:ARG:HG3	3:AC:194:ARG:NH1	2.36	0.40
4:AD:205:VAL:HG23	4:AD:206:LYS:HG3	2.04	0.40
5:AE:69:PRO:O	5:AE:70:VAL:CG2	2.66	0.40
5:AE:205:THR:HG23	5:AE:259:HIS:C	2.46	0.40
5:AE:205:THR:OG1	5:AE:257:GLY:C	2.65	0.40
5:AE:211:GLN:HG3	5:AE:215:LYS:HE2	2.03	0.40
6:AF:1:MET:C	6:AF:18:LEU:CD1	2.95	0.40
6:AF:56:THR:O	6:AF:79:ARG:HG3	2.22	0.40
6:AF:59:GLU:HB2	6:AF:61:PHE:HE2	1.80	0.40
6:AF:80:VAL:O	6:AF:87:ARG:HG2	2.22	0.40
6:AF:193:LEU:CA	6:AF:233:THR:HB	2.51	0.40
7:AG:56:ARG:CD	35:BC:56:C:H1'	2.52	0.40
8:AH:7:PRO:HD2	8:AH:68:ARG:HD3	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:8:ILE:O	8:AH:49:ILE:CD1	2.63	0.40
8:AH:88:LEU:HD13	8:AH:127:GLN:O	2.22	0.40
8:AH:102:LEU:HD12	8:AH:104:LEU:CD2	2.51	0.40
9:AI:20:GLU:OE2	9:AJ:53:GLN:CD	2.64	0.40
9:AI:42:ALA:CB	9:AJ:42:ALA:HB2	2.46	0.40
9:AI:81:THR:OG1	9:AI:83:LEU:HG	2.22	0.40
9:AI:101:VAL:CG1	9:AI:104:SER:HB3	2.50	0.40
9:AI:113:GLU:O	9:AI:116:LYS:HB2	2.21	0.40
9:AJ:62:VAL:HG13	9:AJ:100:ALA:HB3	2.04	0.40
9:AJ:86:LYS:NZ	11:AL:10:LYS:CD	2.82	0.40
10:AK:113:ARG:O	10:AK:114:LYS:O	2.39	0.40
11:AL:116:LEU:HD11	11:AL:124:ALA:HA	2.02	0.40
13:AN:77:ILE:C	13:AN:78:ARG:CG	2.95	0.40
13:AN:78:ARG:HD3	17:AR:21:PHE:HE1	1.87	0.40
14:AO:120:LEU:HG	14:AO:122:ALA:CB	2.52	0.40
15:AP:97:ASP:OD2	15:AP:97:ASP:C	2.65	0.40
15:AP:142:LYS:CG	15:AP:143:VAL:H	2.20	0.40
16:AQ:20:TYR:CG	16:AQ:21:HIS:N	2.89	0.40
16:AQ:23:ARG:HG3	16:AQ:33:ARG:CZ	2.52	0.40
16:AQ:83:LEU:H	16:AQ:83:LEU:HD12	1.86	0.40
18:AS:24:ILE:O	18:AS:25:ARG:O	2.40	0.40
18:AS:26:GLY:C	18:AS:27:LYS:HG3	2.46	0.40
20:AU:46:ASP:CG	20:AU:102:ASP:H	2.30	0.40
21:AV:66:VAL:O	21:AV:66:VAL:CG1	2.68	0.40
21:AV:92:VAL:O	21:AV:124:ALA:CB	2.67	0.40
21:AV:94:VAL:O	21:AV:122:ILE:HA	2.21	0.40
22:AW:8:ILE:O	22:AW:11:MET:N	2.54	0.40
22:AW:16:ARG:O	22:AW:17:GLU:C	2.64	0.40
23:AX:58:VAL:O	23:AX:59:VAL:HG22	2.22	0.40
24:A0:52:ILE:CG2	24:A0:94:TYR:CD1	3.04	0.40
25:A1:36:PHE:O	25:A1:39:LEU:CB	2.70	0.40
25:A1:42:ALA:O	25:A1:45:TYR:CB	2.64	0.40
26:A2:49:GLU:N	26:A2:49:GLU:OE1	2.55	0.40
26:A2:78:VAL:C	26:A2:80:TYR:CD1	2.99	0.40
28:A4:10:VAL:N	28:A4:11:PRO:CD	2.85	0.40
29:A5:31:THR:CG2	29:A5:42:SER:HA	2.47	0.40
30:A6:48:VAL:O	30:A6:50:PHE:HE1	2.04	0.40
31:A7:21:ARG:C	31:A7:31:LEU:HD11	2.46	0.40
31:A7:30:ILE:CB	31:A7:33:ARG:HD2	2.51	0.40
32:A8:15:LYS:CA	32:A8:16:ILE:HD12	2.51	0.40
34:BA:5:U:O4	39:BG:86:LYS:HD3	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:40:C:N4	34:BA:403:C:N4	2.69	0.40
34:BA:109:A:N7	34:BA:326:G:C2	2.89	0.40
34:BA:129(A):G:O2'	34:BA:130:A:P	2.79	0.40
34:BA:129(A):G:C8	34:BA:190(E):U:OP1	2.74	0.40
34:BA:150:C:O2	34:BA:151:A:C8	2.75	0.40
34:BA:192:U:O2	34:BA:193:C:C5	2.74	0.40
34:BA:246:A:C6	34:BA:279:A:C4	3.10	0.40
34:BA:253:U:N3	34:BA:274:A:C2	2.89	0.40
34:BA:263:A:H2'	34:BA:264:U:C5'	2.51	0.40
34:BA:339:C:O2'	34:BA:340:U:C5'	2.68	0.40
34:BA:377:G:H2'	34:BA:378:G:N7	2.37	0.40
34:BA:377:G:C6	34:BA:378:G:O6	2.74	0.40
34:BA:404:U:O2	34:BA:498:U:O4	2.40	0.40
34:BA:455:C:O2	34:BA:455:C:C2'	2.70	0.40
34:BA:455:C:C2	34:BA:478:A:C2	3.10	0.40
34:BA:560:U:N3	34:BA:566:G:O4'	2.55	0.40
34:BA:579:G:C2	34:BA:580:U:C6	3.10	0.40
34:BA:582:U:N3	34:BA:583:A:C8	2.89	0.40
34:BA:622:A:H3'	34:BA:623:C:H5	1.86	0.40
34:BA:628:G:O2'	34:BA:629:G:O4'	2.33	0.40
34:BA:657:G:C4'	50:BR:28:GLN:OE1	2.69	0.40
34:BA:717:C:O2'	34:BA:718:G:P	2.79	0.40
34:BA:754:C:H3'	34:BA:754:C:O2	2.22	0.40
34:BA:781:A:HO2'	34:BA:782:A:P	2.45	0.40
34:BA:921:U:O2	34:BA:921:U:C2'	2.69	0.40
34:BA:945:G:N1	34:BA:1337:G:C6	2.90	0.40
34:BA:959:A:H1'	34:BA:985:C:O4'	2.20	0.40
34:BA:988:G:C4	34:BA:989:C:C6	3.09	0.40
34:BA:1012:U:N3	34:BA:1013:G:C6	2.90	0.40
34:BA:1058:G:H2'	34:BA:1059:C:H6	1.86	0.40
34:BA:1079:G:O2'	40:BH:14:ARG:NH2	2.52	0.40
34:BA:1090:U:O2'	34:BA:1091:U:O4'	2.34	0.40
34:BA:1099:G:H2'	34:BA:1100:C:O5'	2.22	0.40
34:BA:1206:G:C5	34:BA:1207:G:C5	3.10	0.40
34:BA:1210:C:C5	34:BA:1211:U:C4	3.09	0.40
34:BA:1263:C:C4	34:BA:1264:C:N4	2.89	0.40
34:BA:1308:U:H3'	48:BP:99:ARG:CZ	2.38	0.40
34:BA:1326:C:H5''	56:BX:19:GLY:HA3	2.02	0.40
34:BA:1329:A:N1	34:BA:1330:U:C2	2.90	0.40
34:BA:1367:C:OP2	44:BL:117:HIS:ND1	2.55	0.40
34:BA:1376:U:C6	34:BA:1376:U:O5'	2.74	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BA:1410:G:C6	34:BA:1411:C:N4	2.90	0.40
34:BA:1428:A:C6	34:BA:1429:C:C4	3.10	0.40
34:BA:1508:G:H2'	34:BA:1509:C:H6	1.87	0.40
34:BA:1517:G:N1	34:BA:1518:A:C4	2.89	0.40
34:BA:1531:A:OP2	34:BA:1531:A:O4'	2.39	0.40
35:BB:34:G:N1	35:BB:35:A:C6	2.89	0.40
35:BB:55:U:O2	35:BB:57:G:N7	2.54	0.40
37:BE:127:ILE:HG22	37:BE:128:GLU:H	1.85	0.40
38:BF:121:ALA:HB2	38:BF:198:VAL:HG21	2.02	0.40
39:BG:50:ARG:HD3	39:BG:51:PRO:N	2.36	0.40
39:BG:101:LEU:C	39:BG:101:LEU:HD12	2.45	0.40
40:BH:39:GLY:HA2	40:BH:69:VAL:HG23	2.04	0.40
40:BH:43:LEU:HB2	40:BH:136:MET:SD	2.62	0.40
40:BH:102:ALA:CB	40:BH:120:THR:O	2.69	0.40
42:BJ:28:ASN:O	42:BJ:31:MET:HB3	2.22	0.40
42:BJ:29:LYS:NZ	42:BJ:102:ARG:NH2	2.69	0.40
43:BK:104:ARG:C	43:BK:106:GLY:H	2.30	0.40
44:BL:10:ARG:C	44:BL:104:ARG:NH2	2.76	0.40
44:BL:19:LEU:HD23	44:BL:60:ASP:O	2.20	0.40
44:BL:23:ASN:O	44:BL:59:PHE:O	2.39	0.40
44:BL:38:GLN:O	44:BL:39:GLY:C	2.65	0.40
44:BL:47:LEU:HD12	44:BL:51:ARG:NH1	2.37	0.40
44:BL:52:ALA:O	44:BL:95:LYS:HE3	2.21	0.40
44:BL:82:ALA:HB2	44:BL:101:PHE:CE2	2.56	0.40
45:BM:3:LYS:CG	45:BM:75:ILE:HG23	2.51	0.40
45:BM:49:VAL:HG13	49:BQ:41:ARG:HB2	2.03	0.40
46:BN:24:SER:O	46:BN:88:GLY:HA2	2.22	0.40
46:BN:78:GLN:O	46:BN:104:GLN:HB3	2.22	0.40
46:BN:79:SER:HA	46:BN:104:GLN:CG	2.49	0.40
47:BO:85:ILE:CG1	47:BO:98:TYR:HB3	2.47	0.40
49:BQ:26:ARG:HG2	49:BQ:27:CYS:N	2.36	0.40
50:BR:39:LEU:HD13	50:BR:56:LEU:CD1	2.49	0.40
52:BT:7:THR:CG2	52:BT:56:VAL:HG12	2.51	0.40
52:BT:60:ILE:CD1	52:BT:62:SER:CB	3.00	0.40
53:BU:26:LEU:HD21	53:BU:29:PHE:CE1	2.57	0.40
53:BU:34:TYR:HE1	53:BU:35:ARG:HG3	1.80	0.40
53:BU:73:ALA:HB1	53:BU:79:LEU:HG	2.03	0.40
55:BW:89:ARG:HB2	55:BW:104:LEU:HD11	2.02	0.40
1:AB:53:A:C2	1:AB:54:G:C8	3.09	0.40
1:AB:80:U:O2'	2:AA:918:A:C8	2.70	0.40
1:AB:91:C:C2'	1:AB:92:G:H5'	2.52	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:99:A:C4	1:AB:100:G:N7	2.90	0.40
2:AA:30:G:OP1	25:A1:8:ILE:CD1	2.70	0.40
2:AA:47:C:O2	2:AA:179:G:C2	2.74	0.40
2:AA:48:G:N3	2:AA:178:G:N2	2.69	0.40
2:AA:139:G:C8	2:AA:141(A):C:O2	2.74	0.40
2:AA:195:A:N7	2:AA:197:A:OP2	2.55	0.40
2:AA:221:A:N6	2:AA:266:G:N7	2.69	0.40
2:AA:248:G:C2	2:AA:2431:U:C5'	3.04	0.40
2:AA:290:G:N1	2:AA:350:U:C4	2.90	0.40
2:AA:293:U:C2'	2:AA:294:A:C8	2.86	0.40
2:AA:387:U:C5'	2:AA:388:G:OP1	2.65	0.40
2:AA:398:G:N3	2:AA:399:G:C1'	2.84	0.40
2:AA:408:G:C4	2:AA:409:C:C6	3.10	0.40
2:AA:592:G:C2	2:AA:593:G:N9	2.89	0.40
2:AA:616:A:OP2	6:AF:42:ARG:NH2	2.54	0.40
2:AA:689:A:H2'	2:AA:690:G:H5''	2.02	0.40
2:AA:698:C:C6	2:AA:698:C:C4'	3.04	0.40
2:AA:702:G:H1	2:AA:730:C:H42	1.69	0.40
2:AA:713:G:N2	2:AA:714:U:H1'	2.35	0.40
2:AA:769:G:C4	2:AA:770:G:C8	3.09	0.40
2:AA:785:G:C4	2:AA:786:C:C5	3.08	0.40
2:AA:821:A:H2'	2:AA:946:G:C5'	2.49	0.40
2:AA:876:C:C4	2:AA:877:U:N3	2.90	0.40
2:AA:906:G:N2	2:AA:907:U:H1'	2.37	0.40
2:AA:918:A:H5'	2:AA:918:A:N3	2.35	0.40
2:AA:979:G:C5	2:AA:982:C:N4	2.89	0.40
2:AA:986:C:C6	2:AA:986:C:O5'	2.75	0.40
2:AA:994:C:H1'	25:A1:53:LYS:HB2	2.04	0.40
2:AA:996:A:H61	2:AA:1159:U:H3	1.69	0.40
2:AA:1058:G:H21	9:AI:3:ILE:HD11	1.87	0.40
2:AA:1076:C:C4'	11:AL:94:ARG:CZ	2.97	0.40
2:AA:1085:A:C2'	2:AA:1086:A:O4'	2.66	0.40
2:AA:1138:G:P	12:AM:57:TYR:OH	2.80	0.40
2:AA:1414:G:C5	2:AA:1415:U:C4	3.10	0.40
2:AA:1434:A:C6	2:AA:1560:G:C2	3.10	0.40
2:AA:1438:U:C5'	2:AA:1438:U:H6	2.34	0.40
2:AA:1506:C:N3	2:AA:1507:A:H1'	2.37	0.40
2:AA:1530:G:H1'	2:AA:1542:G:O6	2.20	0.40
2:AA:1628:G:N2	2:AA:1629:U:N3	2.69	0.40
2:AA:1708:C:H2'	2:AA:1708:C:O2	2.22	0.40
2:AA:1717:G:C5	2:AA:1743:G:N1	2.90	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AA:1777:U:N3	2:AA:1778:U:C5	2.89	0.40
2:AA:1832:C:N4	2:AA:1833:U:C4	2.89	0.40
2:AA:1848:A:C2	34:BA:702:A:N6	2.90	0.40
2:AA:1886:C:C2	2:AA:1887:C:C5	3.09	0.40
2:AA:1930:G:H2'	2:AA:1968:G:O6	2.20	0.40
2:AA:1993:U:C4'	5:AE:228:ARG:HE	2.26	0.40
2:AA:2003:G:N1	2:AA:2004:G:C2	2.90	0.40
2:AA:2022:U:C3'	2:AA:2617:C:H5''	2.49	0.40
2:AA:2029:G:H2'	2:AA:2030:A:H3'	2.04	0.40
2:AA:2093:G:OP2	10:AK:25:TYR:CE2	2.74	0.40
2:AA:2120:G:H3'	2:AA:2121:G:H8	1.86	0.40
2:AA:2139:C:C2	2:AA:2152:G:N1	2.81	0.40
2:AA:2236:C:C4	2:AA:2237:G:C5	3.09	0.40
2:AA:2259:G:C4	2:AA:2427:C:C4	3.09	0.40
2:AA:2287:A:C6	2:AA:2289:G:N9	2.90	0.40
2:AA:2320:A:C2	2:AA:2333:A:N3	2.89	0.40
2:AA:2331:G:C5	2:AA:2332:U:C2	3.09	0.40
2:AA:2355:C:O2'	27:A3:21:LEU:HD13	2.22	0.40
2:AA:2408:U:H2'	2:AA:2409:G:O5'	2.22	0.40
2:AA:2420:C:N3	2:AA:2421:G:N7	2.70	0.40
2:AA:2436:G:C4	2:AA:2437:U:C6	3.09	0.40
2:AA:2439:A:H2'	2:AA:2439:A:N3	2.36	0.40
2:AA:2454:G:H2'	2:AA:2455:G:C5'	2.50	0.40
2:AA:2579:C:C6	2:AA:2579:C:C4'	3.04	0.40
2:AA:2606:C:N3	2:AA:2607:G:N7	2.69	0.40
2:AA:2617:C:H2'	2:AA:2618:G:C5'	2.52	0.40
2:AA:2640:G:OP1	12:AM:73:LYS:HD2	2.20	0.40
2:AA:2740:A:C8	2:AA:2741:A:N7	2.90	0.40
2:AA:2745:C:O2'	8:AH:142:GLU:CG	2.69	0.40
2:AA:2749:A:C1'	8:AH:62:ALA:CB	2.85	0.40
2:AA:2808:U:C3'	2:AA:2810:A:OP1	2.67	0.40
2:AA:2840:C:H5''	24:A0:53:HIS:NE2	2.36	0.40
3:AC:43:VAL:O	3:AC:172:HIS:CA	2.69	0.40
3:AC:56:GLN:CB	3:AC:201:PRO:HG3	2.51	0.40
3:AC:132:GLY:N	3:AC:133:PRO:HD3	2.36	0.40
3:AC:146:GLY:O	3:AC:148:ASN:N	2.55	0.40
4:AD:143:ILE:N	4:AD:143:ILE:CD1	2.59	0.40
4:AD:146:LYS:HA	4:AD:147:PRO:HD2	1.62	0.40
4:AD:164:LEU:HD22	4:AD:174:ARG:HH22	1.86	0.40
5:AE:109:ASP:HA	5:AE:112:LEU:CB	2.51	0.40
6:AF:32:GLY:CA	6:AF:36:ARG:HE	2.32	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:243:VAL:O	6:AF:246:ARG:CB	2.69	0.40
8:AH:52:THR:O	8:AH:53:ARG:CD	2.68	0.40
8:AH:71:LEU:HA	8:AH:74:MET:HG3	2.02	0.40
8:AH:116:PRO:HD3	8:AH:122:ILE:CD1	2.51	0.40
9:AI:34:ALA:O	9:AI:35:ALA:CB	2.69	0.40
9:AI:52:ALA:CB	9:AI:58:GLU:CD	2.94	0.40
9:AI:55:GLU:O	9:AI:56:LYS:CG	2.68	0.40
9:AI:118:LEU:HD23	9:AI:118:LEU:N	2.37	0.40
9:AJ:81:THR:OG1	9:AJ:83:LEU:HG	2.21	0.40
10:AK:39:ALA:HA	10:AK:44:LEU:HD21	2.03	0.40
10:AK:39:ALA:O	10:AK:40:THR:C	2.64	0.40
11:AL:93:LYS:CD	21:AV:108:VAL:O	2.69	0.40
12:AM:15:ARG:CG	12:AM:40:ASN:ND2	2.83	0.40
12:AM:54:VAL:CG1	12:AM:138:THR:HG21	2.52	0.40
13:AN:17:ARG:HH21	13:AN:47:THR:HA	1.85	0.40
14:AO:64:ILE:HG22	14:AO:65:ASP:N	2.37	0.40
14:AO:74:THR:OG1	14:AO:75:LEU:N	2.55	0.40
14:AO:120:LEU:HD12	14:AO:120:LEU:C	2.46	0.40
14:AO:126:SER:C	14:AO:129:ALA:HB3	2.46	0.40
15:AP:36:ASN:OD1	21:AV:116:VAL:N	2.54	0.40
15:AP:85:ILE:HG22	15:AP:122:PHE:CG	2.57	0.40
16:AQ:31:LYS:NZ	16:AQ:99:GLU:CB	2.65	0.40
16:AQ:35:VAL:CG1	16:AQ:37:ARG:NE	2.81	0.40
18:AS:85:VAL:O	18:AS:85:VAL:CG2	2.69	0.40
20:AU:20:HIS:O	20:AU:23:VAL:CA	2.69	0.40
20:AU:43:ASN:HD22	20:AU:101:LEU:HD23	1.85	0.40
20:AU:43:ASN:CG	20:AU:112:LEU:HD21	2.43	0.40
20:AU:57:GLY:H	20:AU:97:ARG:NH2	2.20	0.40
20:AU:61:GLU:C	20:AU:74:VAL:HG22	2.47	0.40
21:AV:13:LYS:HE2	21:AV:18:MET:CG	2.50	0.40
21:AV:66:VAL:CG2	21:AV:69:VAL:HG22	2.52	0.40
21:AV:105:GLN:C	21:AV:142:ASN:ND2	2.79	0.40
22:AW:2:VAL:O	22:AW:4:HIS:ND1	2.54	0.40
24:A0:14:SER:C	24:A0:16:HIS:N	2.75	0.40
24:A0:33:ARG:HA	24:A0:115:GLU:HA	2.04	0.40
24:A0:73:VAL:CG1	24:A0:77:ARG:NE	2.79	0.40
26:A2:35:LEU:H	26:A2:60:VAL:CG1	2.21	0.40
26:A2:90:PHE:C	26:A2:91:THR:HG23	2.46	0.40
27:A3:35:ASN:H	27:A3:72:LYS:NZ	2.19	0.40
28:A4:46:GLU:CD	28:A4:53:GLU:O	2.64	0.40
28:A4:57:ASP:C	28:A4:61:LYS:CD	2.95	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:A4:58:LYS:HB3	28:A4:62:ARG:HH21	1.87	0.40
29:A5:40:LYS:HZ1	29:A5:46:CYS:CA	2.33	0.40
34:BA:22:G:O4'	34:BA:914:A:N6	2.55	0.40
34:BA:123:C:O2'	34:BA:290:C:C1'	2.68	0.40
34:BA:228:A:H2'	34:BA:229:U:O5'	2.22	0.40
34:BA:238:G:P	52:BT:25:ARG:NH1	2.95	0.40
34:BA:255:G:P	52:BT:69:LYS:HZ3	2.44	0.40
34:BA:275:G:H2'	34:BA:276:G:O5'	2.22	0.40
34:BA:291:C:H2'	34:BA:292:G:O5'	2.21	0.40
34:BA:296:U:N3	34:BA:297:G:N7	2.70	0.40
34:BA:414:A:H2'	34:BA:415:A:O4'	2.22	0.40
34:BA:435:C:H2'	34:BA:436:C:O4'	2.21	0.40
34:BA:440:A:N1	34:BA:495:U:C5	2.88	0.40
34:BA:453:A:H2'	34:BA:454:C:H6	1.86	0.40
34:BA:459:G:N2	34:BA:462:G:N7	2.68	0.40
34:BA:462:G:C6	34:BA:463:A:C6	3.09	0.40
34:BA:584:G:H1	34:BA:757:U:H3	1.70	0.40
34:BA:646:U:N3	34:BA:647:C:C5	2.89	0.40
34:BA:671:G:C2'	34:BA:672:U:C6	2.76	0.40
34:BA:720:C:C4	34:BA:721:G:N3	2.89	0.40
34:BA:750:G:HO2'	50:BR:21:ASP:HA	1.85	0.40
34:BA:759:A:N6	34:BA:760:G:C2	2.90	0.40
34:BA:766:A:O2'	34:BA:767:A:C5'	2.69	0.40
34:BA:772:U:C2	34:BA:773:G:C8	3.10	0.40
34:BA:830:G:H2'	34:BA:831:U:C5'	2.51	0.40
34:BA:836:G:N2	34:BA:837:G:C1'	2.82	0.40
34:BA:963:G:N1	34:BA:973:G:C6	2.89	0.40
34:BA:994:A:C8	34:BA:994:A:O5'	2.74	0.40
34:BA:1010:G:C2	34:BA:1020:U:H1'	2.56	0.40
34:BA:1014:A:C2	54:BV:34:TRP:CH2	3.10	0.40
34:BA:1121:U:O4	34:BA:1152:A:N1	2.55	0.40
34:BA:1213:A:C5	34:BA:1215:G:C4	3.10	0.40
34:BA:1226:C:O3'	48:BP:111:LYS:CE	2.70	0.40
34:BA:1239:A:H1'	34:BA:1241:G:C4	2.57	0.40
34:BA:1248:A:C6	34:BA:1249:C:N3	2.90	0.40
34:BA:1326:C:O2'	34:BA:1327:C:H5'	2.21	0.40
34:BA:1347:G:C8	44:BL:107:ARG:HD2	2.57	0.40
34:BA:1363:A:C2	34:BA:1365:G:O6	2.74	0.40
34:BA:1405:G:C1'	34:BA:1519:A:C4'	3.00	0.40
34:BA:1500:A:OP2	34:BA:1505:G:OP2	2.39	0.40
35:BB:20:G:P	35:BB:20:G:O4'	2.79	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BC:6:U:C2	35:BC:7:U:C5	3.09	0.40
35:BC:36:A:O2'	35:BC:37:G:P	2.78	0.40
35:BC:49:C:N3	35:BC:50:U:O4	2.54	0.40
37:BE:75:LYS:HE3	37:BE:78:GLN:NE2	2.36	0.40
37:BE:75:LYS:HG2	37:BE:78:GLN:HE22	1.81	0.40
37:BE:179:LYS:C	37:BE:181:PHE:N	2.77	0.40
38:BF:119:ARG:C	38:BF:121:ALA:N	2.78	0.40
38:BF:170:GLN:O	38:BF:170:GLN:CG	2.70	0.40
38:BF:196:LEU:N	38:BF:196:LEU:CD2	2.84	0.40
39:BG:23:GLY:HA2	39:BG:112:VAL:HG12	2.04	0.40
39:BG:57:ARG:HD2	39:BG:202:LEU:HD23	2.04	0.40
39:BG:83:SER:HA	39:BG:89:THR:HG1	1.75	0.40
40:BH:51:VAL:HG12	40:BH:52:PRO:N	2.36	0.40
40:BH:76:ILE:CG2	40:BH:142:LEU:HD21	2.50	0.40
40:BH:94:ALA:O	40:BH:95:ALA:HB2	2.21	0.40
41:BI:68:PRO:O	41:BI:69:GLU:C	2.65	0.40
42:BJ:74:GLU:C	42:BJ:75:VAL:HG23	2.47	0.40
46:BN:16:SER:HB2	46:BN:79:SER:HB3	2.03	0.40
46:BN:27:ASN:HB2	46:BN:55:LYS:CE	2.41	0.40
46:BN:27:ASN:HA	46:BN:55:LYS:HB3	2.03	0.40
46:BN:82:VAL:HB	46:BN:108:ILE:CG1	2.52	0.40
46:BN:85:ARG:CD	46:BN:113:PRO:HD3	2.52	0.40
47:BO:24:VAL:CG2	47:BO:98:TYR:CZ	2.99	0.40
47:BO:68:ALA:HB1	47:BO:99:HIS:CA	2.50	0.40
47:BO:68:ALA:O	47:BO:100:ILE:HD11	2.21	0.40
47:BO:78:GLN:H	47:BO:81:SER:HB2	1.87	0.40
48:BP:120:LYS:O	48:BP:121:LYS:CE	2.70	0.40
50:BR:29:VAL:HG11	50:BR:81:LEU:CD1	2.48	0.40
51:BS:68:ASP:C	51:BS:70:ALA:H	2.26	0.40
52:BT:48:GLU:C	52:BT:48:GLU:OE1	2.64	0.40
52:BT:58:GLU:H	52:BT:58:GLU:HG3	1.70	0.40
55:BW:48:LYS:HD2	55:BW:48:LYS:N	2.37	0.40

All (3) 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	Interatomic distance (Å)	Clash overlap (Å)
1:AB:-1:A:O2'	1:AB:-1:A:O2'[15_545]	1.59	0.61
2:AA:2153:G:O2'	34:BA:423:G:OP2[3_655]	2.16	0.04
36:B1:29:G:O3'	40:BH:5:ASP:OD2[3_655]	2.17	0.03

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	
3	AC	217/228 (95%)	143 (66%)	36 (17%)	38 (18%)	0	2
4	AD	171/178 (96%)	71 (42%)	38 (22%)	62 (36%)	0	0
5	AE	187/338 (55%)	89 (48%)	41 (22%)	57 (30%)	0	0
6	AF	183/246 (74%)	83 (45%)	40 (22%)	60 (33%)	0	0
7	AG	118/176 (67%)	57 (48%)	29 (25%)	32 (27%)	0	0
8	AH	162/177 (92%)	89 (55%)	39 (24%)	34 (21%)	0	2
9	AI	126/128 (98%)	87 (69%)	24 (19%)	15 (12%)	0	4
9	AJ	126/128 (98%)	86 (68%)	25 (20%)	15 (12%)	0	4
10	AK	146/149 (98%)	83 (57%)	34 (23%)	29 (20%)	0	2
11	AL	131/141 (93%)	66 (50%)	33 (25%)	32 (24%)	0	1
12	AM	113/145 (78%)	48 (42%)	26 (23%)	39 (34%)	0	0
13	AN	120/122 (98%)	60 (50%)	33 (28%)	27 (22%)	0	1
14	AO	82/164 (50%)	40 (49%)	17 (21%)	25 (30%)	0	0
15	AP	136/138 (99%)	50 (37%)	43 (32%)	43 (32%)	0	0
16	AQ	111/186 (60%)	41 (37%)	32 (29%)	38 (34%)	0	0
17	AR	50/66 (76%)	19 (38%)	17 (34%)	14 (28%)	0	0
18	AS	104/113 (92%)	70 (67%)	18 (17%)	16 (15%)	0	3
19	AT	74/84 (88%)	33 (45%)	17 (23%)	24 (32%)	0	0
20	AU	108/119 (91%)	60 (56%)	25 (23%)	23 (21%)	0	2
21	AV	175/253 (69%)	69 (39%)	46 (26%)	60 (34%)	0	0
22	AW	62/70 (89%)	21 (34%)	25 (40%)	16 (26%)	0	1
23	AX	58/60 (97%)	29 (50%)	13 (22%)	16 (28%)	0	0
24	A0	103/118 (87%)	50 (48%)	33 (32%)	20 (19%)	0	2
25	A1	115/118 (98%)	48 (42%)	40 (35%)	27 (24%)	0	1
26	A2	98/100 (98%)	54 (55%)	18 (18%)	26 (26%)	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
27	A3	84/91 (92%)	32 (38%)	16 (19%)	36 (43%)	0	0
28	A4	71/73 (97%)	21 (30%)	19 (27%)	31 (44%)	0	0
29	A5	56/60 (93%)	25 (45%)	11 (20%)	20 (36%)	0	0
30	A6	51/82 (62%)	26 (51%)	8 (16%)	17 (33%)	0	0
31	A7	44/47 (94%)	14 (32%)	12 (27%)	18 (41%)	0	0
32	A8	61/64 (95%)	24 (39%)	16 (26%)	21 (34%)	0	0
33	A9	33/36 (92%)	19 (58%)	8 (24%)	6 (18%)	0	2
37	BE	232/256 (91%)	107 (46%)	58 (25%)	67 (29%)	0	0
38	BF	204/239 (85%)	113 (55%)	46 (22%)	45 (22%)	0	1
39	BG	206/209 (99%)	97 (47%)	63 (31%)	46 (22%)	0	1
40	BH	148/162 (91%)	90 (61%)	38 (26%)	20 (14%)	0	3
41	BI	99/101 (98%)	55 (56%)	24 (24%)	20 (20%)	0	2
42	BJ	153/156 (98%)	63 (41%)	49 (32%)	41 (27%)	0	0
43	BK	136/138 (99%)	67 (49%)	39 (29%)	30 (22%)	0	1
44	BL	125/128 (98%)	64 (51%)	27 (22%)	34 (27%)	0	0
45	BM	96/105 (91%)	54 (56%)	19 (20%)	23 (24%)	0	1
46	BN	117/129 (91%)	54 (46%)	33 (28%)	30 (26%)	0	1
47	BO	122/135 (90%)	65 (53%)	28 (23%)	29 (24%)	0	1
48	BP	123/126 (98%)	59 (48%)	30 (24%)	34 (28%)	0	0
49	BQ	58/61 (95%)	22 (38%)	10 (17%)	26 (45%)	0	0
50	BR	86/89 (97%)	36 (42%)	35 (41%)	15 (17%)	0	2
51	BS	81/88 (92%)	42 (52%)	24 (30%)	15 (18%)	0	2
52	BT	102/105 (97%)	62 (61%)	20 (20%)	20 (20%)	0	2
53	BU	71/88 (81%)	29 (41%)	24 (34%)	18 (25%)	0	1
54	BV	78/93 (84%)	35 (45%)	17 (22%)	26 (33%)	0	0
55	BW	97/106 (92%)	27 (28%)	46 (47%)	24 (25%)	0	1
56	BX	22/27 (82%)	9 (41%)	5 (23%)	8 (36%)	0	0
All	All	5832/6739 (86%)	2857 (49%)	1467 (25%)	1508 (26%)	0	1

All (1508) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	AC	17	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	AC	35	ALA
3	AC	54	SER
3	AC	68	LEU
3	AC	87	GLU
3	AC	117	PRO
3	AC	119	VAL
3	AC	133	PRO
3	AC	138	PRO
3	AC	140	PRO
3	AC	157	LYS
3	AC	158	ALA
3	AC	173	ALA
3	AC	200	LYS
3	AC	208	PHE
4	AD	61	TYR
4	AD	64	ILE
4	AD	66	PHE
4	AD	67	LYS
4	AD	86	ARG
4	AD	96	ALA
4	AD	106	PRO
4	AD	108	ASN
4	AD	109	LEU
4	AD	110	LYS
4	AD	112	GLY
4	AD	113	MET
4	AD	114	GLU
4	AD	115	ILE
4	AD	116	MET
4	AD	120	ASP
4	AD	122	ASP
4	AD	123	ILE
4	AD	143	ILE
4	AD	147	PRO
4	AD	153	LEU
4	AD	154	VAL
4	AD	157	ALA
4	AD	168	GLY
4	AD	176	ALA
4	AD	177	SER
4	AD	185	GLY
4	AD	186	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	AD	187	CYS
4	AD	199	ARG
4	AD	205	VAL
4	AD	223	ASN
4	AD	224	VAL
4	AD	227	VAL
4	AD	233	ASP
4	AD	235	PRO
5	AE	61	PRO
5	AE	62	ARG
5	AE	67	THR
5	AE	77	PRO
5	AE	78	MET
5	AE	79	ARG
5	AE	82	ALA
5	AE	94	ARG
5	AE	102	ASP
5	AE	104	PHE
5	AE	105	HIS
5	AE	108	LEU
5	AE	190	ASN
5	AE	205	THR
5	AE	206	LYS
5	AE	214	VAL
5	AE	223	LYS
5	AE	225	LYS
5	AE	229	GLN
5	AE	233	ARG
5	AE	234	ARG
5	AE	244	SER
5	AE	251	PRO
5	AE	255	GLN
5	AE	299	SER
5	AE	300	VAL
5	AE	303	PRO
5	AE	309	PRO
5	AE	315	VAL
6	AF	2	GLU
6	AF	6	TYR
6	AF	11	ASN
6	AF	21	VAL
6	AF	24	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	AF	43	LYS
6	AF	56	THR
6	AF	58	ALA
6	AF	61	PHE
6	AF	82	GLN
6	AF	85	LYS
6	AF	88	SER
6	AF	90	HIS
6	AF	91	PRO
6	AF	99	SER
6	AF	102	LEU
6	AF	104	ASP
6	AF	112	ARG
6	AF	139	VAL
6	AF	161	ASP
6	AF	198	ASP
6	AF	199	GLU
6	AF	200	PRO
6	AF	202	THR
6	AF	203	ALA
6	AF	210	ALA
6	AF	211	ASP
6	AF	215	ALA
6	AF	217	GLU
7	AG	16	PRO
7	AG	18	ILE
7	AG	48	MET
7	AG	49	PRO
7	AG	55	LYS
7	AG	64	ARG
7	AG	77	ASP
7	AG	78	GLU
7	AG	100	ASP
7	AG	101	THR
7	AG	128	LEU
7	AG	129	ASP
7	AG	139	TYR
7	AG	147	ALA
7	AG	150	SER
7	AG	153	THR
8	AH	11	PRO
8	AH	14	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	AH	21	ASN
8	AH	28	PRO
8	AH	37	HIS
8	AH	59	HIS
8	AH	75	VAL
8	AH	81	GLY
8	AH	109	SER
8	AH	117	GLU
8	AH	127	GLN
8	AH	138	GLN
8	AH	152	PRO
8	AH	159	LYS
9	AI	35	ALA
9	AI	56	LYS
9	AI	58	GLU
9	AJ	35	ALA
9	AJ	56	LYS
9	AJ	58	GLU
10	AK	7	LYS
10	AK	8	ASP
10	AK	9	VAL
10	AK	12	LYS
10	AK	13	GLY
10	AK	22	ALA
10	AK	23	ASP
10	AK	25	TYR
10	AK	27	ASN
10	AK	36	ALA
10	AK	39	ALA
10	AK	75	LEU
10	AK	92	SER
10	AK	111	ASP
10	AK	114	LYS
10	AK	115	ILE
10	AK	124	LEU
10	AK	135	PRO
11	AL	18	ALA
11	AL	19	THR
11	AL	26	PRO
11	AL	27	ALA
11	AL	66	PHE
11	AL	67	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	AL	68	PHE
11	AL	86	GLU
11	AL	87	LYS
11	AL	90	SER
11	AL	93	LYS
11	AL	97	VAL
11	AL	102	ARG
11	AL	114	PRO
11	AL	118	ALA
12	AM	5	GLU
12	AM	8	ALA
12	AM	9	ASP
12	AM	17	CYS
12	AM	47	THR
12	AM	51	GLU
12	AM	63	ILE
12	AM	67	ASN
12	AM	70	PHE
12	AM	88	PRO
12	AM	105	LEU
13	AN	14	SER
13	AN	28	SER
13	AN	30	ARG
13	AN	35	ILE
13	AN	72	PRO
13	AN	91	LYS
13	AN	96	THR
13	AN	104	ARG
13	AN	110	ASP
14	AO	55	GLN
14	AO	57	VAL
14	AO	61	ALA
14	AO	66	VAL
14	AO	76	LEU
14	AO	95	ASP
14	AO	96	VAL
14	AO	100	ALA
14	AO	102	ASP
14	AO	103	ALA
14	AO	104	ASP
14	AO	105	TYR
14	AO	106	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
14	AO	111	ALA
14	AO	114	VAL
14	AO	129	ALA
14	AO	142	LEU
14	AO	143	THR
15	AP	23	ILE
15	AP	24	PRO
15	AP	26	LYS
15	AP	27	GLY
15	AP	30	GLN
15	AP	36	ASN
15	AP	43	PRO
15	AP	58	HIS
15	AP	105	PHE
15	AP	128	PRO
15	AP	142	LYS
15	AP	143	VAL
15	AP	147	VAL
15	AP	153	PRO
16	AQ	16	ALA
16	AQ	31	LYS
16	AQ	32	PRO
16	AQ	40	ASN
16	AQ	41	LYS
16	AQ	52	PRO
16	AQ	53	ASN
16	AQ	55	ASP
16	AQ	58	LEU
16	AQ	59	ALA
16	AQ	67	ALA
16	AQ	68	GLU
16	AQ	69	TYR
16	AQ	74	PRO
16	AQ	75	THR
16	AQ	98	GLU
16	AQ	107	ASN
16	AQ	109	PRO
17	AR	6	CYS
17	AR	9	CYS
17	AR	15	PRO
17	AR	37	GLU
17	AR	46	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	AR	48	ASN
18	AS	25	ARG
18	AS	26	GLY
18	AS	40	ASN
18	AS	41	LYS
18	AS	66	GLU
18	AS	67	ASP
19	AT	2	TRP
19	AT	3	ASP
19	AT	4	VAL
19	AT	23	LYS
19	AT	29	ASP
19	AT	30	ASP
19	AT	46	ASP
19	AT	50	GLU
19	AT	68	LEU
19	AT	76	GLU
20	AU	5	ASP
20	AU	14	ALA
20	AU	24	ARG
20	AU	25	ALA
20	AU	28	SER
20	AU	30	ASP
20	AU	44	ALA
20	AU	68	ASP
20	AU	71	VAL
20	AU	77	VAL
20	AU	85	GLU
20	AU	93	THR
21	AV	3	LEU
21	AV	6	LYS
21	AV	7	PRO
21	AV	10	PRO
21	AV	11	LYS
21	AV	16	GLU
21	AV	37	LYS
21	AV	40	ASP
21	AV	46	GLN
21	AV	51	LEU
21	AV	61	THR
21	AV	64	ALA
21	AV	65	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
21	AV	69	VAL
21	AV	72	ASP
21	AV	75	LYS
21	AV	107	GLU
21	AV	108	VAL
21	AV	143	ILE
21	AV	149	ALA
21	AV	150	GLY
21	AV	152	ILE
21	AV	167	THR
21	AV	168	VAL
22	AW	3	LEU
22	AW	4	HIS
22	AW	5	VAL
22	AW	11	MET
22	AW	12	THR
23	AX	11	SER
23	AX	13	ILE
23	AX	16	PRO
23	AX	32	GLN
23	AX	52	HIS
23	AX	53	LEU
23	AX	54	VAL
23	AX	59	VAL
24	A0	38	VAL
24	A0	59	ASP
24	A0	71	GLN
24	A0	72	ASP
24	A0	89	ASP
24	A0	90	ARG
24	A0	107	ASP
25	A1	6	THR
25	A1	7	GLY
25	A1	8	ILE
25	A1	22	LYS
25	A1	24	PHE
25	A1	27	SER
25	A1	32	TYR
25	A1	86	ALA
25	A1	87	ASN
25	A1	94	VAL
26	A2	6	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	A2	11	GLN
26	A2	13	ARG
26	A2	20	ILE
26	A2	22	VAL
26	A2	28	GLU
26	A2	31	ASP
26	A2	40	VAL
26	A2	55	THR
26	A2	56	VAL
26	A2	58	ALA
26	A2	69	ILE
26	A2	71	ILE
26	A2	80	TYR
26	A2	81	ARG
26	A2	88	GLN
26	A2	90	PHE
27	A3	12	ASN
27	A3	17	ASN
27	A3	23	VAL
27	A3	27	GLY
27	A3	28	GLY
27	A3	30	VAL
27	A3	33	ALA
27	A3	36	ILE
27	A3	39	ARG
27	A3	40	GLN
27	A3	53	MET
27	A3	54	GLY
27	A3	59	LEU
27	A3	63	SER
27	A3	69	PHE
27	A3	70	ILE
27	A3	76	ALA
27	A3	78	PHE
27	A3	79	ILE
28	A4	4	ASP
28	A4	6	HIS
28	A4	12	CYS
28	A4	21	VAL
28	A4	28	ARG
28	A4	29	PRO
28	A4	33	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
28	A4	39	VAL
28	A4	41	PRO
28	A4	52	THR
28	A4	55	ARG
28	A4	56	VAL
28	A4	58	LYS
28	A4	59	PHE
28	A4	63	PHE
29	A5	7	PRO
29	A5	9	LYS
29	A5	13	LYS
29	A5	14	SER
29	A5	30	LEU
29	A5	33	CYS
29	A5	53	ASP
29	A5	57	VAL
30	A6	9	ILE
30	A6	18	THR
30	A6	20	PHE
30	A6	21	TYR
30	A6	30	ASN
30	A6	32	GLN
30	A6	36	GLU
30	A6	48	VAL
31	A7	4	THR
31	A7	18	PHE
31	A7	35	ARG
31	A7	39	ARG
31	A7	43	THR
32	A8	14	ILE
32	A8	33	ASN
32	A8	34	THR
32	A8	36	LYS
32	A8	56	ALA
32	A8	61	MET
32	A8	62	LEU
33	A9	6	SER
33	A9	9	LYS
33	A9	31	LYS
33	A9	33	LYS
37	BE	8	LYS
37	BE	13	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
37	BE	15	VAL
37	BE	17	PHE
37	BE	20	GLU
37	BE	22	LYS
37	BE	26	PRO
37	BE	29	ALA
37	BE	37	ASN
37	BE	42	ILE
37	BE	44	LEU
37	BE	77	ALA
37	BE	96	ARG
37	BE	104	ASN
37	BE	118	LEU
37	BE	120	ALA
37	BE	121	LEU
37	BE	124	SER
37	BE	127	ILE
37	BE	128	GLU
37	BE	149	LEU
37	BE	150	SER
37	BE	154	LEU
37	BE	161	ALA
37	BE	165	VAL
37	BE	168	THR
37	BE	171	ALA
37	BE	181	PHE
37	BE	192	SER
37	BE	194	PRO
37	BE	195	ASP
37	BE	211	ILE
37	BE	226	ARG
37	BE	229	VAL
37	BE	232	PRO
38	BF	3	ASN
38	BF	4	LYS
38	BF	14	ILE
38	BF	27	LYS
38	BF	52	LEU
38	BF	53	ALA
38	BF	60	ALA
38	BF	64	VAL
38	BF	65	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
38	BF	79	ARG
38	BF	83	ARG
38	BF	84	ILE
38	BF	98	ASN
38	BF	119	ARG
38	BF	155	GLY
38	BF	156	ARG
38	BF	160	ALA
38	BF	164	ARG
38	BF	176	HIS
38	BF	206	GLU
39	BG	5	ILE
39	BG	17	VAL
39	BG	18	LYS
39	BG	21	LEU
39	BG	29	PRO
39	BG	56	VAL
39	BG	71	SER
39	BG	99	SER
39	BG	109	GLY
39	BG	131	ARG
39	BG	136	PRO
39	BG	141	ARG
39	BG	150	GLU
39	BG	151	LYS
39	BG	168	ARG
39	BG	199	ASN
40	BH	77	PRO
40	BH	85	GLY
40	BH	95	ALA
40	BH	109	ILE
40	BH	113	ALA
40	BH	125	SER
40	BH	153	LYS
41	BI	16	GLN
41	BI	26	ILE
41	BI	42	GLU
41	BI	69	GLU
41	BI	81	ILE
41	BI	82	ARG
41	BI	83	ASP
41	BI	84	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
41	BI	85	VAL
41	BI	95	GLU
41	BI	96	PRO
42	BJ	5	ARG
42	BJ	6	ARG
42	BJ	7	ALA
42	BJ	10	ARG
42	BJ	14	PRO
42	BJ	31	MET
42	BJ	32	ARG
42	BJ	35	LYS
42	BJ	37	ASN
42	BJ	71	PRO
42	BJ	90	GLU
42	BJ	91	VAL
42	BJ	112	PRO
42	BJ	113	GLU
42	BJ	114	ARG
42	BJ	153	HIS
43	BK	13	ILE
43	BK	21	LYS
43	BK	24	THR
43	BK	30	ARG
43	BK	65	TYR
43	BK	70	GLN
43	BK	74	PRO
43	BK	75	ARG
43	BK	76	PRO
43	BK	78	GLN
43	BK	101	PRO
43	BK	103	VAL
43	BK	105	ARG
43	BK	121	ASP
43	BK	134	ILE
44	BL	12	GLU
44	BL	52	ALA
44	BL	70	LYS
44	BL	91	ASP
44	BL	100	GLY
44	BL	103	THR
44	BL	105	ASP
44	BL	116	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
44	BL	117	HIS
44	BL	119	ALA
45	BM	33	GLN
45	BM	41	PRO
45	BM	55	LYS
45	BM	56	HIS
45	BM	59	SER
45	BM	60	ARG
45	BM	61	GLU
45	BM	79	ARG
46	BN	13	GLN
46	BN	27	ASN
46	BN	49	GLY
46	BN	52	GLY
46	BN	53	SER
46	BN	54	ARG
46	BN	55	LYS
46	BN	89	ALA
46	BN	104	GLN
46	BN	105	VAL
46	BN	106	LYS
46	BN	115	PRO
46	BN	117	ASN
46	BN	126	ARG
46	BN	127	LYS
47	BO	18	VAL
47	BO	19	ARG
47	BO	22	SER
47	BO	26	ALA
47	BO	30	ALA
47	BO	49	ASN
47	BO	73	GLU
47	BO	79	GLU
47	BO	83	VAL
47	BO	91	LYS
47	BO	116	SER
47	BO	121	GLY
48	BP	4	ILE
48	BP	7	VAL
48	BP	11	ARG
48	BP	12	ASN
48	BP	39	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
48	BP	67	GLU
48	BP	84	ILE
48	BP	101	GLN
48	BP	106	ASN
48	BP	107	ALA
48	BP	114	ARG
49	BQ	13	THR
49	BQ	15	LYS
49	BQ	18	VAL
49	BQ	22	THR
49	BQ	28	GLY
49	BQ	31	ARG
49	BQ	34	TYR
49	BQ	36	PHE
49	BQ	42	ILE
49	BQ	56	VAL
50	BR	47	LYS
50	BR	82	ILE
51	BS	11	SER
51	BS	15	PRO
51	BS	24	ALA
51	BS	44	THR
51	BS	61	SER
52	BT	3	LYS
52	BT	4	LYS
52	BT	12	SER
52	BT	34	LYS
52	BT	48	GLU
52	BT	53	LEU
52	BT	68	ARG
52	BT	104	LYS
53	BU	37	VAL
53	BU	54	ARG
53	BU	81	PHE
53	BU	82	THR
53	BU	83	GLU
53	BU	87	ARG
54	BV	3	ARG
54	BV	12	ASP
54	BV	28	LYS
54	BV	30	LEU
54	BV	31	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
54	BV	65	ASN
54	BV	71	LEU
55	BW	49	ALA
55	BW	68	LYS
55	BW	69	GLY
55	BW	74	LYS
55	BW	76	ALA
55	BW	92	LEU
55	BW	95	ALA
55	BW	101	GLY
55	BW	102	GLY
56	BX	3	LYS
56	BX	17	THR
56	BX	18	TYR
56	BX	21	TYR
3	AC	6	ARG
3	AC	36	LYS
3	AC	49	ILE
3	AC	72	VAL
3	AC	91	ALA
3	AC	118	ASP
3	AC	130	ILE
3	AC	202	GLU
3	AC	215	THR
3	AC	217	THR
3	AC	226	PRO
4	AD	78	ALA
4	AD	85	ASN
4	AD	97	ASP
4	AD	104	ILE
4	AD	117	SER
4	AD	119	PRO
4	AD	125	ILE
4	AD	145	LEU
4	AD	156	ALA
4	AD	158	GLY
4	AD	201	ASP
4	AD	225	ARG
4	AD	229	MET
4	AD	236	PHE
5	AE	39	GLN
5	AE	76	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	AE	101	THR
5	AE	172	ASP
5	AE	173	ARG
5	AE	188	ALA
5	AE	196	GLY
5	AE	207	GLY
5	AE	222	ARG
5	AE	235	ILE
5	AE	241	TRP
5	AE	249	THR
5	AE	298	GLY
6	AF	12	THR
6	AF	14	GLY
6	AF	26	VAL
6	AF	38	ALA
6	AF	60	SER
6	AF	62	GLY
6	AF	64	GLY
6	AF	87	ARG
6	AF	89	ALA
6	AF	100	LEU
6	AF	101	ASP
6	AF	162	VAL
6	AF	168	ARG
6	AF	208	ALA
6	AF	212	VAL
6	AF	230	GLY
7	AG	14	ARG
7	AG	17	ARG
7	AG	28	GLY
7	AG	69	ILE
7	AG	97	GLN
7	AG	107	GLY
7	AG	135	VAL
7	AG	148	SER
8	AH	12	ALA
8	AH	13	GLY
8	AH	29	LYS
8	AH	46	GLY
8	AH	58	LYS
8	AH	142	GLU
8	AH	164	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	AH	165	GLY
9	AI	30	GLY
9	AI	31	VAL
9	AI	65	SER
9	AI	100	ALA
9	AJ	30	GLY
9	AJ	31	VAL
9	AJ	36	PRO
9	AJ	65	SER
9	AJ	100	ALA
10	AK	65	ALA
10	AK	83	ALA
11	AL	15	ALA
11	AL	89	SER
11	AL	96	ILE
11	AL	103	LYS
11	AL	115	ASP
11	AL	117	ASN
12	AM	7	ASP
12	AM	15	ARG
12	AM	27	ALA
12	AM	28	GLU
12	AM	40	ASN
12	AM	41	ALA
12	AM	55	GLU
12	AM	61	VAL
12	AM	69	TYR
12	AM	87	LEU
13	AN	11	ALA
13	AN	17	ARG
13	AN	68	GLY
13	AN	89	ASP
13	AN	90	ASP
13	AN	100	GLY
13	AN	113	LYS
13	AN	115	ILE
14	AO	56	LYS
14	AO	58	GLN
14	AO	117	GLU
14	AO	126	SER
14	AO	127	GLU
15	AP	10	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
15	AP	16	ARG
15	AP	28	ILE
15	AP	53	PRO
15	AP	59	ASN
15	AP	60	ALA
15	AP	63	ALA
15	AP	64	ALA
15	AP	73	GLN
15	AP	82	LYS
15	AP	97	ASP
15	AP	119	ASN
15	AP	146	THR
15	AP	154	ALA
15	AP	156	ASN
16	AQ	11	ARG
16	AQ	20	TYR
16	AQ	56	ASP
16	AQ	60	SER
16	AQ	123	ILE
17	AR	10	GLY
17	AR	47	ARG
17	AR	49	LEU
18	AS	29	LEU
18	AS	30	GLU
18	AS	58	ALA
18	AS	89	ALA
18	AS	93	ALA
19	AT	5	ILE
19	AT	32	ALA
19	AT	35	GLY
19	AT	57	THR
19	AT	59	ASP
20	AU	35	TYR
20	AU	94	SER
21	AV	14	LEU
21	AV	26	LYS
21	AV	47	SER
21	AV	59	GLY
21	AV	112	LEU
21	AV	125	PRO
21	AV	128	ARG
21	AV	138	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
21	AV	151	ASP
21	AV	156	GLU
21	AV	157	GLY
22	AW	2	VAL
22	AW	46	ILE
23	AX	17	LYS
23	AX	42	ALA
24	A0	57	ARG
24	A0	58	GLY
24	A0	76	VAL
24	A0	86	ARG
25	A1	5	LYS
25	A1	9	VAL
25	A1	31	GLN
25	A1	35	ALA
25	A1	53	LYS
25	A1	62	ILE
25	A1	97	ASP
25	A1	107	LYS
26	A2	26	GLN
26	A2	32	LYS
27	A3	7	VAL
27	A3	10	SER
27	A3	25	LYS
27	A3	38	VAL
27	A3	42	GLY
27	A3	45	PHE
27	A3	74	LYS
27	A3	75	GLY
27	A3	81	ILE
28	A4	3	LYS
28	A4	14	ILE
28	A4	24	THR
28	A4	53	GLU
29	A5	22	HIS
29	A5	29	ASN
29	A5	34	PRO
29	A5	37	HIS
29	A5	51	TYR
29	A5	52	TYR
30	A6	3	LYS
30	A6	4	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
30	A6	8	ILE
30	A6	53	LYS
31	A7	2	LYS
31	A7	3	ARG
31	A7	9	ASN
31	A7	25	LYS
31	A7	27	GLY
31	A7	29	ASN
32	A8	18	GLY
32	A8	27	SER
32	A8	29	LYS
32	A8	30	ARG
32	A8	32	GLN
32	A8	39	ASP
37	BE	11	LEU
37	BE	30	ARG
37	BE	123	ALA
37	BE	131	PRO
37	BE	136	VAL
37	BE	153	ARG
37	BE	159	PRO
37	BE	160	ASP
37	BE	167	PRO
37	BE	169	LYS
37	BE	172	ILE
37	BE	178	ARG
38	BF	22	TRP
38	BF	28	GLN
38	BF	29	TYR
38	BF	43	LEU
38	BF	61	ALA
38	BF	73	PRO
38	BF	158	GLY
38	BF	179	ARG
38	BF	192	THR
39	BG	30	LYS
39	BG	35	ARG
39	BG	73	ARG
39	BG	110	PHE
39	BG	125	HIS
39	BG	153	ARG
39	BG	163	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
39	BG	170	VAL
39	BG	179	GLU
39	BG	189	PRO
39	BG	195	ALA
40	BH	11	ILE
40	BH	73	ASN
40	BH	96	PRO
40	BH	97	GLY
40	BH	102	ALA
40	BH	116	THR
40	BH	126	ARG
40	BH	128	PRO
40	BH	146	ALA
41	BI	15	ASP
41	BI	17	SER
41	BI	20	ALA
41	BI	43	LEU
41	BI	80	ARG
42	BJ	9	VAL
42	BJ	17	VAL
42	BJ	55	GLY
42	BJ	72	ARG
42	BJ	94	ARG
42	BJ	138	LYS
42	BJ	147	ALA
42	BJ	152	ALA
43	BK	23	SER
43	BK	41	ARG
43	BK	44	PHE
43	BK	102	ARG
44	BL	31	GLN
44	BL	39	GLY
44	BL	41	VAL
44	BL	43	ALA
44	BL	44	VAL
44	BL	47	LEU
44	BL	54	ASP
44	BL	68	GLY
44	BL	71	SER
44	BL	94	ALA
44	BL	106	ALA
44	BL	118	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
45	BM	13	HIS
45	BM	30	SER
45	BM	39	PRO
45	BM	52	GLY
45	BM	57	LYS
45	BM	72	VAL
45	BM	77	PRO
46	BN	94	ALA
46	BN	103	LEU
46	BN	121	PRO
46	BN	124	LYS
46	BN	128	ALA
47	BO	27	LEU
47	BO	61	THR
47	BO	62	SER
47	BO	76	ASN
47	BO	87	GLY
47	BO	90	VAL
47	BO	94	PRO
47	BO	105	TYR
47	BO	115	LYS
48	BP	5	ALA
48	BP	28	ALA
48	BP	46	LYS
48	BP	54	VAL
48	BP	55	ARG
48	BP	59	TYR
48	BP	68	GLY
48	BP	103	THR
48	BP	124	PRO
49	BQ	5	ALA
49	BQ	7	ILE
49	BQ	12	ARG
49	BQ	17	LYS
49	BQ	29	ARG
49	BQ	43	CYS
50	BR	11	VAL
50	BR	16	ALA
50	BR	19	PRO
50	BR	31	LEU
50	BR	68	ARG
51	BS	63	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
51	BS	66	PRO
52	BT	33	GLY
52	BT	83	ASP
52	BT	96	GLN
52	BT	98	LEU
53	BU	28	GLU
53	BU	34	TYR
53	BU	38	GLU
53	BU	62	GLU
53	BU	75	ILE
53	BU	84	LYS
54	BV	6	LYS
54	BV	9	VAL
54	BV	11	VAL
54	BV	16	LEU
54	BV	43	GLU
54	BV	45	VAL
54	BV	64	GLU
54	BV	68	GLY
54	BV	73	GLU
54	BV	79	THR
55	BW	50	GLU
55	BW	56	MET
55	BW	103	GLY
55	BW	105	SER
56	BX	7	ARG
3	AC	37	PHE
3	AC	106	GLY
3	AC	141	LYS
3	AC	199	HIS
4	AD	124	LYS
4	AD	127	ASN
4	AD	132	GLU
4	AD	194	VAL
5	AE	84	ARG
5	AE	103	GLU
5	AE	106	SER
5	AE	179	ASP
5	AE	240	PRO
5	AE	262	THR
6	AF	23	GLU
6	AF	25	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	AF	49	ASP
6	AF	97	ASP
6	AF	155	SER
6	AF	209	GLY
6	AF	222	ASP
7	AG	12	GLU
7	AG	66	GLY
7	AG	140	ARG
8	AH	118	GLU
8	AH	169	ARG
9	AI	36	PRO
9	AI	95	ALA
9	AJ	95	ALA
10	AK	40	THR
10	AK	113	ARG
11	AL	76	SER
11	AL	113	MET
11	AL	121	LEU
12	AM	16	ASP
12	AM	26	VAL
12	AM	31	LEU
12	AM	42	GLU
12	AM	48	GLY
12	AM	50	GLU
12	AM	66	ASP
12	AM	71	TYR
12	AM	78	ILE
12	AM	92	GLN
12	AM	140	GLY
13	AN	41	ALA
13	AN	47	THR
13	AN	66	LYS
14	AO	80	ASP
15	AP	96	GLN
16	AQ	15	GLU
16	AQ	19	ASP
16	AQ	27	LEU
16	AQ	108	SER
17	AR	52	THR
18	AS	44	ALA
18	AS	45	TYR
19	AT	12	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
19	AT	13	LYS
19	AT	14	ALA
19	AT	31	ARG
19	AT	47	VAL
20	AU	31	LEU
20	AU	69	LYS
21	AV	2	GLU
21	AV	5	ALA
21	AV	27	GLU
21	AV	48	THR
21	AV	49	THR
21	AV	70	GLN
21	AV	71	MET
21	AV	91	PRO
21	AV	93	GLU
21	AV	97	PRO
21	AV	123	VAL
21	AV	142	ASN
22	AW	6	GLN
22	AW	13	PRO
22	AW	40	PRO
23	AX	25	ALA
23	AX	51	ALA
24	A0	19	ALA
24	A0	22	ARG
24	A0	60	LEU
24	A0	74	LYS
24	A0	88	ARG
24	A0	94	TYR
25	A1	111	ASP
26	A2	8	GLY
26	A2	54	TYR
26	A2	79	GLN
27	A3	19	LYS
27	A3	32	LYS
27	A3	52	GLY
28	A4	8	LYS
28	A4	49	PHE
28	A4	51	ASP
28	A4	61	LYS
29	A5	35	GLN
29	A5	42	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
29	A5	48	ASN
30	A6	33	ALA
30	A6	34	LYS
31	A7	10	ARG
31	A7	14	LYS
31	A7	19	ARG
31	A7	23	LYS
32	A8	8	LYS
32	A8	26	LYS
32	A8	51	ALA
32	A8	58	MET
32	A8	63	PRO
33	A9	12	ASP
33	A9	21	GLY
37	BE	45	GLN
37	BE	52	GLU
37	BE	53	ARG
37	BE	88	ALA
37	BE	91	PRO
37	BE	97	TRP
37	BE	119	GLU
37	BE	152	PHE
37	BE	183	PRO
38	BF	45	LYS
38	BF	59	ARG
39	BG	42	GLN
39	BG	53	ASP
39	BG	67	ILE
39	BG	93	PHE
39	BG	181	MET
39	BG	201	GLN
40	BH	53	LEU
40	BH	104	ALA
40	BH	135	THR
41	BI	34	GLY
42	BJ	13	GLN
42	BJ	127	ALA
42	BJ	129	GLU
42	BJ	146	GLU
42	BJ	150	ALA
43	BK	67	PRO
43	BK	97	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
44	BL	29	ASN
44	BL	38	GLN
44	BL	109	VAL
44	BL	125	TYR
45	BM	34	VAL
45	BM	90	LEU
46	BN	74	ALA
46	BN	76	GLY
46	BN	101	SER
47	BO	28	LYS
47	BO	75	HIS
47	BO	127	GLU
48	BP	3	ARG
48	BP	41	PRO
48	BP	57	ARG
48	BP	91	ARG
48	BP	118	ALA
49	BQ	9	LYS
49	BQ	16	PHE
49	BQ	20	ALA
49	BQ	21	TYR
49	BQ	27	CYS
49	BQ	48	ALA
50	BR	20	GLY
50	BR	76	GLU
51	BS	27	LYS
51	BS	81	ARG
52	BT	14	LYS
54	BV	13	ASP
54	BV	14	HIS
54	BV	27	GLU
54	BV	33	THR
54	BV	35	SER
55	BW	16	HIS
55	BW	59	ALA
55	BW	82	SER
55	BW	96	GLY
55	BW	98	PRO
56	BX	9	ARG
3	AC	20	TYR
3	AC	210	ARG
4	AD	105	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	AD	210	LYS
5	AE	184	GLY
5	AE	247	ARG
6	AF	57	PRO
6	AF	63	SER
6	AF	84	VAL
6	AF	103	ASN
6	AF	154	VAL
7	AG	60	GLU
7	AG	85	GLN
7	AG	96	SER
8	AH	78	VAL
10	AK	46	ALA
10	AK	112	LYS
11	AL	72	THR
12	AM	44	ALA
12	AM	91	LYS
12	AM	108	PRO
13	AN	22	ILE
13	AN	80	ASP
13	AN	112	MET
15	AP	12	PRO
15	AP	17	ARG
15	AP	25	GLY
15	AP	44	ALA
15	AP	57	ARG
15	AP	140	TYR
15	AP	145	PRO
16	AQ	17	ARG
16	AQ	105	GLY
16	AQ	125	ALA
16	AQ	127	LEU
17	AR	51	TRP
18	AS	15	ARG
18	AS	42	ARG
21	AV	8	ARG
21	AV	35	ASP
21	AV	101	THR
21	AV	104	SER
21	AV	113	VAL
21	AV	160	LEU
22	AW	36	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
22	AW	45	ARG
22	AW	58	THR
23	AX	30	ARG
23	AX	40	THR
23	AX	41	PRO
25	A1	45	TYR
26	A2	89	ASN
27	A3	82	GLU
28	A4	27	THR
28	A4	50	LEU
29	A5	4	HIS
29	A5	45	ILE
30	A6	17	GLY
30	A6	42	PRO
32	A8	53	ALA
37	BE	78	GLN
38	BF	12	LEU
38	BF	26	LYS
38	BF	39	ILE
38	BF	66	VAL
38	BF	109	PRO
38	BF	127	ARG
38	BF	173	VAL
38	BF	174	PRO
38	BF	177	THR
38	BF	181	ASN
39	BG	4	TYR
39	BG	33	MET
41	BI	32	ASN
41	BI	41	GLU
41	BI	72	VAL
42	BJ	33	ASP
42	BJ	93	PRO
42	BJ	111	ARG
42	BJ	148	ASN
42	BJ	155	ARG
43	BK	10	LEU
43	BK	15	ASN
44	BL	55	ALA
44	BL	58	ARG
44	BL	95	LYS
44	BL	120	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
44	BL	126	SER
45	BM	40	LEU
45	BM	80	LYS
46	BN	45	GLY
46	BN	66	LEU
46	BN	112	THR
47	BO	47	LYS
48	BP	43	THR
48	BP	61	GLU
49	BQ	54	PRO
50	BR	36	ILE
51	BS	46	PRO
51	BS	58	TYR
51	BS	69	THR
51	BS	70	ALA
51	BS	79	VAL
52	BT	13	ASP
53	BU	43	PHE
53	BU	52	PRO
53	BU	70	ILE
53	BU	80	PRO
54	BV	20	LEU
55	BW	15	ARG
55	BW	78	ALA
55	BW	97	ALA
3	AC	57	ASN
3	AC	143	GLY
4	AD	213	LYS
5	AE	63	GLU
5	AE	83	LEU
5	AE	245	ARG
5	AE	301	PRO
5	AE	316	ARG
6	AF	35	VAL
6	AF	67	GLN
7	AG	134	LEU
8	AH	91	VAL
8	AH	168	VAL
9	AI	13	LEU
9	AI	24	LYS
9	AJ	13	LEU
9	AJ	24	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	AK	33	GLN
11	AL	32	GLY
11	AL	45	GLU
11	AL	55	PRO
11	AL	75	ALA
11	AL	122	GLU
12	AM	95	ARG
13	AN	74	GLY
14	AO	110	GLY
16	AQ	29	SER
16	AQ	72	GLU
16	AQ	106	LEU
17	AR	7	ASP
17	AR	13	ILE
17	AR	14	GLU
19	AT	36	GLU
20	AU	23	VAL
20	AU	76	ASP
20	AU	81	LYS
21	AV	118	HIS
21	AV	127	PRO
21	AV	165	GLU
22	AW	57	LYS
23	AX	29	ARG
24	A0	45	ARG
24	A0	85	PRO
25	A1	36	PHE
25	A1	43	ALA
25	A1	73	GLY
25	A1	95	LEU
25	A1	116	ALA
26	A2	17	GLY
27	A3	48	GLY
28	A4	5	LEU
28	A4	10	VAL
28	A4	26	SER
29	A5	5	PRO
31	A7	11	LYS
31	A7	33	ARG
32	A8	13	ARG
32	A8	19	THR
37	BE	87	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
37	BE	143	GLU
37	BE	177	ALA
37	BE	180	LEU
37	BE	200	ILE
38	BF	81	GLY
39	BG	13	ARG
39	BG	40	PRO
39	BG	51	PRO
39	BG	94	LEU
39	BG	101	LEU
39	BG	196	LEU
40	BH	51	VAL
42	BJ	118	VAL
42	BJ	121	ALA
42	BJ	125	MET
43	BK	2	LEU
43	BK	64	LYS
43	BK	73	ASP
43	BK	79	VAL
43	BK	129	VAL
43	BK	133	LEU
45	BM	28	ARG
46	BN	37	GLY
46	BN	65	ALA
47	BO	48	PRO
48	BP	10	PRO
48	BP	14	ARG
50	BR	10	LYS
50	BR	88	ARG
51	BS	55	ARG
52	BT	64	PRO
52	BT	65	ILE
52	BT	66	SER
52	BT	88	TYR
52	BT	89	LEU
53	BU	21	LYS
54	BV	15	LEU
54	BV	25	LYS
54	BV	37	ARG
55	BW	60	GLU
55	BW	61	SER
56	BX	24	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	AC	50	ASP
3	AC	90	GLY
3	AC	187	ASP
5	AE	250	VAL
5	AE	314	ALA
8	AH	154	GLU
9	AI	84	GLY
9	AJ	84	GLY
10	AK	3	VAL
10	AK	11	GLY
11	AL	46	THR
13	AN	2	ILE
15	AP	18	GLU
15	AP	126	VAL
16	AQ	97	VAL
19	AT	17	ASP
19	AT	73	ASP
20	AU	9	LYS
20	AU	36	GLY
20	AU	100	ASP
21	AV	39	PHE
21	AV	68	ALA
22	AW	43	PRO
22	AW	56	ILE
24	A0	46	GLY
25	A1	65	ILE
26	A2	46	VAL
27	A3	67	VAL
28	A4	22	MET
37	BE	130	ARG
37	BE	209	ARG
38	BF	145	GLY
39	BG	7	PRO
39	BG	47	ARG
39	BG	180	GLY
42	BJ	96	GLN
42	BJ	97	GLN
45	BM	54	PHE
46	BN	102	GLY
46	BN	123	LYS
47	BO	11	VAL
49	BQ	23	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
49	BQ	58	LYS
50	BR	15	PHE
50	BR	29	VAL
52	BT	47	PRO
3	AC	48	GLY
7	AG	26	GLY
8	AH	77	GLY
8	AH	111	PRO
9	AI	3	ILE
9	AJ	3	ILE
10	AK	84	GLY
12	AM	133	GLY
16	AQ	70	GLY
16	AQ	104	ILE
18	AS	91	GLY
26	A2	30	GLY
27	A3	18	PRO
28	A4	11	PRO
28	A4	40	HIS
38	BF	75	VAL
43	BK	128	GLY
47	BO	31	PRO
48	BP	15	VAL
49	BQ	55	GLY
4	AD	80	ILE
8	AH	153	PRO
12	AM	20	GLY
15	AP	76	GLY
30	A6	6	PRO
37	BE	193	ASP
37	BE	201	ILE
37	BE	230	VAL
39	BG	69	GLY
39	BG	90	GLY
42	BJ	19	GLY
44	BL	21	PRO
44	BL	81	ILE
47	BO	71	PRO
48	BP	45	VAL
48	BP	85	GLY
4	AD	63	ILE
4	AD	77	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	AD	216	ALA
8	AH	51	VAL
9	AI	37	VAL
9	AI	71	ILE
11	AL	21	ALA
12	AM	33	GLY
19	AT	41	VAL
20	AU	42	VAL
21	AV	90	GLU
21	AV	136	VAL
38	BF	25	GLY
44	BL	90	PRO
45	BM	82	ILE
50	BR	12	ILE
55	BW	47	GLY
6	AF	31	ILE
8	AH	124	VAL
9	AJ	71	ILE
10	AK	98	ILE
13	AN	49	GLY
15	AP	100	GLY
15	AP	117	GLY
15	AP	144	THR
16	AQ	111	PRO
25	A1	26	GLY
27	A3	68	VAL
31	A7	38	GLY
42	BJ	81	GLY
48	BP	17	VAL
48	BP	53	VAL
53	BU	79	LEU
4	AD	163	VAL
8	AH	150	VAL
9	AJ	37	VAL
13	AN	48	PRO
45	BM	76	ASN
56	BX	19	GLY

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	
3	AC	174/180 (97%)	142 (82%)	32 (18%)	1	9
4	AD	135/139 (97%)	84 (62%)	51 (38%)	0	1
5	AE	156/284 (55%)	113 (72%)	43 (28%)	0	3
6	AF	152/193 (79%)	120 (79%)	32 (21%)	1	6
7	AG	102/147 (69%)	74 (72%)	28 (28%)	0	3
8	AH	137/147 (93%)	94 (69%)	43 (31%)	0	2
9	AI	98/98 (100%)	87 (89%)	11 (11%)	6	19
9	AJ	98/98 (100%)	88 (90%)	10 (10%)	7	23
10	AK	119/119 (100%)	95 (80%)	24 (20%)	1	8
11	AL	108/113 (96%)	90 (83%)	18 (17%)	2	11
12	AM	95/121 (78%)	67 (70%)	28 (30%)	0	2
13	AN	101/101 (100%)	72 (71%)	29 (29%)	0	3
14	AO	67/126 (53%)	50 (75%)	17 (25%)	0	4
15	AP	110/110 (100%)	73 (66%)	37 (34%)	0	2
16	AQ	89/149 (60%)	58 (65%)	31 (35%)	0	1
17	AR	44/52 (85%)	26 (59%)	18 (41%)	0	0
18	AS	88/92 (96%)	63 (72%)	25 (28%)	0	3
19	AT	67/73 (92%)	50 (75%)	17 (25%)	0	4
20	AU	97/105 (92%)	77 (79%)	20 (21%)	1	7
21	AV	151/203 (74%)	106 (70%)	45 (30%)	0	2
22	AW	51/56 (91%)	39 (76%)	12 (24%)	1	5
23	AX	52/52 (100%)	31 (60%)	21 (40%)	0	1
24	A0	89/101 (88%)	58 (65%)	31 (35%)	0	1
25	A1	96/97 (99%)	69 (72%)	27 (28%)	0	3
26	A2	79/79 (100%)	61 (77%)	18 (23%)	1	6
27	A3	64/67 (96%)	46 (72%)	18 (28%)	0	3
28	A4	66/66 (100%)	48 (73%)	18 (27%)	0	3
29	A5	51/53 (96%)	35 (69%)	16 (31%)	0	2
30	A6	46/69 (67%)	35 (76%)	11 (24%)	1	5

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
31	A7	39/40 (98%)	29 (74%)	10 (26%)	0	4
32	A8	50/51 (98%)	32 (64%)	18 (36%)	0	1
33	A9	34/35 (97%)	29 (85%)	5 (15%)	3	13
37	BE	202/220 (92%)	153 (76%)	49 (24%)	1	4
38	BF	160/188 (85%)	124 (78%)	36 (22%)	1	6
39	BG	180/181 (99%)	135 (75%)	45 (25%)	0	4
40	BH	115/123 (94%)	64 (56%)	51 (44%)	0	0
41	BI	90/90 (100%)	65 (72%)	25 (28%)	0	3
42	BJ	126/127 (99%)	103 (82%)	23 (18%)	2	9
43	BK	119/119 (100%)	71 (60%)	48 (40%)	0	1
44	BL	98/99 (99%)	83 (85%)	15 (15%)	3	12
45	BM	88/92 (96%)	68 (77%)	20 (23%)	1	6
46	BN	90/99 (91%)	67 (74%)	23 (26%)	0	4
47	BO	104/111 (94%)	82 (79%)	22 (21%)	1	6
48	BP	100/101 (99%)	75 (75%)	25 (25%)	0	4
49	BQ	49/50 (98%)	40 (82%)	9 (18%)	1	9
50	BR	79/80 (99%)	55 (70%)	24 (30%)	0	2
51	BS	72/74 (97%)	42 (58%)	30 (42%)	0	0
52	BT	96/97 (99%)	71 (74%)	25 (26%)	0	4
53	BU	64/77 (83%)	48 (75%)	16 (25%)	0	4
54	BV	71/80 (89%)	58 (82%)	13 (18%)	2	9
55	BW	76/82 (93%)	54 (71%)	22 (29%)	0	2
56	BX	19/22 (86%)	16 (84%)	3 (16%)	2	12
All	All	4903/5528 (89%)	3615 (74%)	1288 (26%)	0	3

All (1288) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	AC	8	ARG
3	AC	10	LEU
3	AC	20	TYR
3	AC	21	THR
3	AC	36	LYS
3	AC	61	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	AC	62	VAL
3	AC	70	LYS
3	AC	99	ILE
3	AC	101	GLN
3	AC	104	LEU
3	AC	105	ASP
3	AC	108	MET
3	AC	117	PRO
3	AC	126	LYS
3	AC	130	ILE
3	AC	136	LEU
3	AC	137	LEU
3	AC	138	PRO
3	AC	141	LYS
3	AC	144	THR
3	AC	165	ASN
3	AC	167	LYS
3	AC	168	THR
3	AC	180	PHE
3	AC	187	ASP
3	AC	197	GLU
3	AC	199	HIS
3	AC	210	ARG
3	AC	213	TYR
3	AC	215	THR
3	AC	222	VAL
4	AD	62	ARG
4	AD	64	ILE
4	AD	65	ASP
4	AD	66	PHE
4	AD	67	LYS
4	AD	70	LYS
4	AD	73	ILE
4	AD	79	THR
4	AD	80	ILE
4	AD	82	TYR
4	AD	84	PRO
4	AD	85	ASN
4	AD	90	ILE
4	AD	93	ILE
4	AD	104	ILE
4	AD	110	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	AD	113	MET
4	AD	114	GLU
4	AD	115	ILE
4	AD	119	PRO
4	AD	123	ILE
4	AD	125	ILE
4	AD	129	LEU
4	AD	130	PRO
4	AD	131	LEU
4	AD	134	ILE
4	AD	139	LEU
4	AD	140	VAL
4	AD	141	HIS
4	AD	143	ILE
4	AD	144	GLU
4	AD	145	LEU
4	AD	152	GLN
4	AD	154	VAL
4	AD	164	LEU
4	AD	169	LYS
4	AD	173	VAL
4	AD	174	ARG
4	AD	175	LEU
4	AD	180	VAL
4	AD	181	ARG
4	AD	190	THR
4	AD	200	THR
4	AD	201	ASP
4	AD	204	PHE
4	AD	206	LYS
4	AD	222	PRO
4	AD	223	ASN
4	AD	227	VAL
4	AD	235	PRO
4	AD	236	PHE
5	AE	48	MET
5	AE	49	THR
5	AE	63	GLU
5	AE	65	MET
5	AE	67	THR
5	AE	69	PRO
5	AE	71	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	AE	75	THR
5	AE	77	PRO
5	AE	84	ARG
5	AE	87	GLU
5	AE	98	GLU
5	AE	104	PHE
5	AE	106	SER
5	AE	109	ASP
5	AE	112	LEU
5	AE	174	LEU
5	AE	175	ASP
5	AE	178	LEU
5	AE	187	HIS
5	AE	192	ILE
5	AE	194	ARG
5	AE	200	ASP
5	AE	204	VAL
5	AE	205	THR
5	AE	211	GLN
5	AE	214	VAL
5	AE	215	LYS
5	AE	221	LYS
5	AE	222	ARG
5	AE	225	LYS
5	AE	226	HIS
5	AE	228	ARG
5	AE	235	ILE
5	AE	258	TYR
5	AE	262	THR
5	AE	263	GLU
5	AE	269	ILE
5	AE	270	ASP
5	AE	294	THR
5	AE	304	ASP
5	AE	308	VAL
5	AE	309	PRO
6	AF	1	MET
6	AF	18	LEU
6	AF	21	VAL
6	AF	30	LEU
6	AF	35	VAL
6	AF	36	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	AF	39	GLN
6	AF	42	ARG
6	AF	45	ASP
6	AF	50	GLU
6	AF	54	LEU
6	AF	56	THR
6	AF	57	PRO
6	AF	80	VAL
6	AF	82	GLN
6	AF	84	VAL
6	AF	85	LYS
6	AF	90	HIS
6	AF	94	THR
6	AF	102	LEU
6	AF	103	ASN
6	AF	107	ARG
6	AF	111	VAL
6	AF	142	ASP
6	AF	157	LEU
6	AF	158	GLU
6	AF	200	PRO
6	AF	217	GLU
6	AF	219	ASN
6	AF	233	THR
6	AF	238	SER
6	AF	245	GLU
7	AG	10	PHE
7	AG	11	HIS
7	AG	18	ILE
7	AG	19	GLU
7	AG	21	VAL
7	AG	22	VAL
7	AG	23	VAL
7	AG	24	HIS
7	AG	27	ILE
7	AG	39	ASP
7	AG	45	THR
7	AG	49	PRO
7	AG	56	ARG
7	AG	57	THR
7	AG	65	GLU
7	AG	67	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
7	AG	77	ASP
7	AG	85	GLN
7	AG	92	GLU
7	AG	93	LEU
7	AG	97	GLN
7	AG	100	ASP
7	AG	104	PHE
7	AG	106	PHE
7	AG	130	VAL
7	AG	132	VAL
7	AG	133	ASN
7	AG	153	THR
8	AH	10	ILE
8	AH	15	THR
8	AH	18	VAL
8	AH	22	THR
8	AH	32	LEU
8	AH	37	HIS
8	AH	40	MET
8	AH	48	VAL
8	AH	49	ILE
8	AH	50	THR
8	AH	53	ARG
8	AH	57	GLU
8	AH	66	THR
8	AH	70	LEU
8	AH	76	GLU
8	AH	83	GLU
8	AH	86	LEU
8	AH	87	GLU
8	AH	88	LEU
8	AH	101	LYS
8	AH	104	LEU
8	AH	105	SER
8	AH	108	TYR
8	AH	110	HIS
8	AH	113	GLU
8	AH	115	GLU
8	AH	117	GLU
8	AH	120	LEU
8	AH	121	GLU
8	AH	122	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	AH	127	GLN
8	AH	131	ILE
8	AH	132	VAL
8	AH	136	ASP
8	AH	137	LYS
8	AH	142	GLU
8	AH	147	ILE
8	AH	152	PRO
8	AH	161	ILE
8	AH	163	TYR
8	AH	164	GLU
8	AH	167	LEU
8	AH	170	LEU
9	AI	4	ASP
9	AI	15	VAL
9	AI	36	PRO
9	AI	37	VAL
9	AI	43	PRO
9	AI	60	ASP
9	AI	80	ILE
9	AI	90	ASP
9	AI	92	VAL
9	AI	118	LEU
9	AI	127	LEU
9	AJ	4	ASP
9	AJ	15	VAL
9	AJ	36	PRO
9	AJ	37	VAL
9	AJ	60	ASP
9	AJ	80	ILE
9	AJ	90	ASP
9	AJ	92	VAL
9	AJ	118	LEU
9	AJ	127	LEU
10	AK	5	PHE
10	AK	6	LEU
10	AK	8	ASP
10	AK	18	ILE
10	AK	19	LYS
10	AK	25	TYR
10	AK	29	PHE
10	AK	37	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	AK	54	GLU
10	AK	64	ASN
10	AK	69	LYS
10	AK	70	GLU
10	AK	75	LEU
10	AK	79	ILE
10	AK	112	LYS
10	AK	119	ASP
10	AK	121	ILE
10	AK	126	TYR
10	AK	129	VAL
10	AK	132	LYS
10	AK	136	GLU
10	AK	141	LEU
10	AK	146	THR
10	AK	148	GLN
11	AL	11	LEU
11	AL	28	LEU
11	AL	36	MET
11	AL	41	ARG
11	AL	42	PHE
11	AL	45	GLU
11	AL	48	ASP
11	AL	55	PRO
11	AL	61	TYR
11	AL	69	ILE
11	AL	74	PRO
11	AL	79	LEU
11	AL	96	ILE
11	AL	104	GLN
11	AL	107	GLU
11	AL	117	ASN
11	AL	129	GLU
11	AL	135	MET
12	AM	5	GLU
12	AM	6	PHE
12	AM	7	ASP
12	AM	12	VAL
12	AM	17	CYS
12	AM	19	MET
12	AM	21	ARG
12	AM	28	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	AM	39	VAL
12	AM	42	GLU
12	AM	47	THR
12	AM	51	GLU
12	AM	54	VAL
12	AM	58	GLU
12	AM	61	VAL
12	AM	62	ASP
12	AM	74	ARG
12	AM	76	ASP
12	AM	79	PHE
12	AM	88	PRO
12	AM	100	SER
12	AM	101	VAL
12	AM	105	LEU
12	AM	110	ASP
12	AM	132	LEU
12	AM	135	ILE
12	AM	136	SER
12	AM	139	LEU
13	AN	3	GLN
13	AN	5	GLU
13	AN	6	SER
13	AN	7	ARG
13	AN	8	LEU
13	AN	10	VAL
13	AN	13	ASN
13	AN	23	LYS
13	AN	35	ILE
13	AN	40	VAL
13	AN	44	LYS
13	AN	47	THR
13	AN	51	VAL
13	AN	52	VAL
13	AN	58	VAL
13	AN	63	VAL
13	AN	64	ARG
13	AN	65	THR
13	AN	66	LYS
13	AN	77	ILE
13	AN	78	ARG
13	AN	86	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
13	AN	90	ASP
13	AN	98	ILE
13	AN	102	VAL
13	AN	106	LEU
13	AN	112	MET
13	AN	114	ILE
13	AN	122	ILE
14	AO	51	PHE
14	AO	53	ARG
14	AO	56	LYS
14	AO	59	GLU
14	AO	67	ARG
14	AO	70	ASP
14	AO	72	ASN
14	AO	75	LEU
14	AO	94	ARG
14	AO	104	ASP
14	AO	109	LEU
14	AO	113	GLN
14	AO	119	THR
14	AO	120	LEU
14	AO	121	ILE
14	AO	125	PHE
14	AO	141	GLU
15	AP	10	ILE
15	AP	12	PRO
15	AP	15	THR
15	AP	16	ARG
15	AP	17	ARG
15	AP	19	TYR
15	AP	20	ILE
15	AP	24	PRO
15	AP	32	LYS
15	AP	48	ASN
15	AP	49	VAL
15	AP	51	GLU
15	AP	54	VAL
15	AP	59	ASN
15	AP	61	LEU
15	AP	69	ASN
15	AP	71	PHE
15	AP	72	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
15	AP	85	ILE
15	AP	88	PHE
15	AP	89	PRO
15	AP	91	HIS
15	AP	93	ILE
15	AP	95	GLU
15	AP	109	VAL
15	AP	116	HIS
15	AP	125	TRP
15	AP	133	GLU
15	AP	136	TRP
15	AP	137	ARG
15	AP	142	LYS
15	AP	144	THR
15	AP	145	PRO
15	AP	146	THR
15	AP	150	ASP
15	AP	152	SER
15	AP	153	PRO
16	AQ	10	MET
16	AQ	12	ARG
16	AQ	13	ARG
16	AQ	14	ARG
16	AQ	18	THR
16	AQ	19	ASP
16	AQ	21	HIS
16	AQ	22	GLN
16	AQ	23	ARG
16	AQ	24	LEU
16	AQ	27	LEU
16	AQ	28	LYS
16	AQ	32	PRO
16	AQ	42	HIS
16	AQ	49	THR
16	AQ	52	PRO
16	AQ	57	THR
16	AQ	71	TRP
16	AQ	72	GLU
16	AQ	74	PRO
16	AQ	87	LEU
16	AQ	93	GLN
16	AQ	94	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
16	AQ	99	GLU
16	AQ	101	VAL
16	AQ	102	LEU
16	AQ	103	ASP
16	AQ	109	PRO
16	AQ	111	PRO
16	AQ	128	ASP
16	AQ	129	ILE
17	AR	4	ARG
17	AR	7	ASP
17	AR	8	TYR
17	AR	11	THR
17	AR	12	ASP
17	AR	13	ILE
17	AR	14	GLU
17	AR	20	MET
17	AR	21	PHE
17	AR	22	VAL
17	AR	23	HIS
17	AR	28	THR
17	AR	29	THR
17	AR	42	LEU
17	AR	44	ARG
17	AR	48	ASN
17	AR	49	LEU
17	AR	51	TRP
18	AS	11	ARG
18	AS	13	SER
18	AS	14	PRO
18	AS	21	VAL
18	AS	25	ARG
18	AS	28	SER
18	AS	29	LEU
18	AS	30	GLU
18	AS	34	ASN
18	AS	41	LYS
18	AS	49	LYS
18	AS	59	VAL
18	AS	65	LEU
18	AS	66	GLU
18	AS	67	ASP
18	AS	71	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	AS	75	TYR
18	AS	76	VAL
18	AS	82	LEU
18	AS	84	ARG
18	AS	86	LEU
18	AS	90	ARG
18	AS	103	ILE
18	AS	104	THR
18	AS	107	LEU
19	AT	4	VAL
19	AT	11	THR
19	AT	17	ASP
19	AT	18	MET
19	AT	19	ASP
19	AT	20	PHE
19	AT	24	LEU
19	AT	25	GLN
19	AT	26	PHE
19	AT	30	ASP
19	AT	31	ARG
19	AT	36	GLU
19	AT	50	GLU
19	AT	57	THR
19	AT	59	ASP
19	AT	70	GLU
19	AT	76	GLU
20	AU	15	PRO
20	AU	18	GLU
20	AU	19	ARG
20	AU	23	VAL
20	AU	26	THR
20	AU	27	LEU
20	AU	30	ASP
20	AU	31	LEU
20	AU	35	TYR
20	AU	47	THR
20	AU	49	GLU
20	AU	51	LEU
20	AU	61	GLU
20	AU	71	VAL
20	AU	75	GLU
20	AU	77	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
20	AU	81	LYS
20	AU	87	VAL
20	AU	97	ARG
20	AU	99	THR
21	AV	2	GLU
21	AV	9	THR
21	AV	10	PRO
21	AV	12	GLN
21	AV	14	LEU
21	AV	16	GLU
21	AV	19	ILE
21	AV	25	ASN
21	AV	26	LYS
21	AV	27	GLU
21	AV	32	PHE
21	AV	34	LEU
21	AV	35	ASP
21	AV	36	ARG
21	AV	40	ASP
21	AV	41	ARG
21	AV	45	GLN
21	AV	49	THR
21	AV	51	LEU
21	AV	57	GLU
21	AV	63	PRO
21	AV	66	VAL
21	AV	67	LYS
21	AV	69	VAL
21	AV	70	GLN
21	AV	72	ASP
21	AV	73	LYS
21	AV	74	ARG
21	AV	87	THR
21	AV	88	TYR
21	AV	91	PRO
21	AV	107	GLU
21	AV	113	VAL
21	AV	115	ILE
21	AV	118	HIS
21	AV	120	LEU
21	AV	127	PRO
21	AV	135	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
21	AV	137	ASP
21	AV	141	MET
21	AV	146	HIS
21	AV	159	THR
21	AV	165	GLU
21	AV	166	LEU
21	AV	168	VAL
22	AW	7	GLU
22	AW	10	ASP
22	AW	19	GLU
22	AW	20	LEU
22	AW	22	ASP
22	AW	34	GLN
22	AW	45	ARG
22	AW	46	ILE
22	AW	58	THR
22	AW	60	GLN
22	AW	62	GLU
22	AW	65	ASP
23	AX	2	PRO
23	AX	4	LEU
23	AX	6	VAL
23	AX	9	VAL
23	AX	13	ILE
23	AX	16	PRO
23	AX	18	ASP
23	AX	23	LEU
23	AX	30	ARG
23	AX	31	LEU
23	AX	32	GLN
23	AX	38	GLU
23	AX	40	THR
23	AX	41	PRO
23	AX	43	ILE
23	AX	48	GLU
23	AX	50	VAL
23	AX	56	VAL
23	AX	57	GLU
23	AX	58	VAL
23	AX	59	VAL
24	A0	16	HIS
24	A0	18	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	A0	23	ASN
24	A0	27	SER
24	A0	28	LEU
24	A0	31	HIS
24	A0	35	THR
24	A0	36	THR
24	A0	50	HIS
24	A0	51	LEU
24	A0	52	ILE
24	A0	54	LEU
24	A0	56	LYS
24	A0	60	LEU
24	A0	70	LEU
24	A0	73	VAL
24	A0	75	LEU
24	A0	76	VAL
24	A0	77	ARG
24	A0	79	LEU
24	A0	80	PHE
24	A0	82	GLU
24	A0	83	ILE
24	A0	86	ARG
24	A0	87	TYR
24	A0	88	ARG
24	A0	91	GLN
24	A0	100	LEU
24	A0	105	ARG
24	A0	113	LEU
24	A0	116	LEU
25	A1	3	ARG
25	A1	8	ILE
25	A1	9	VAL
25	A1	11	ARG
25	A1	13	ARG
25	A1	19	LYS
25	A1	24	PHE
25	A1	27	SER
25	A1	28	ARG
25	A1	36	PHE
25	A1	39	LEU
25	A1	41	ASN
25	A1	45	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	A1	46	GLU
25	A1	51	ARG
25	A1	59	ARG
25	A1	71	LEU
25	A1	72	HIS
25	A1	75	ASN
25	A1	83	LEU
25	A1	87	ASN
25	A1	88	ILE
25	A1	98	ILE
25	A1	102	GLU
25	A1	109	LEU
25	A1	113	SER
25	A1	117	ARG
26	A2	5	ILE
26	A2	15	SER
26	A2	20	ILE
26	A2	35	LEU
26	A2	38	LEU
26	A2	39	PHE
26	A2	40	VAL
26	A2	44	GLN
26	A2	50	ASP
26	A2	56	VAL
26	A2	63	HIS
26	A2	69	ILE
26	A2	74	TYR
26	A2	75	LYS
26	A2	78	VAL
26	A2	80	TYR
26	A2	90	PHE
26	A2	95	ILE
27	A3	10	SER
27	A3	14	ARG
27	A3	26	PHE
27	A3	31	VAL
27	A3	39	ARG
27	A3	43	THR
27	A3	45	PHE
27	A3	49	GLN
27	A3	55	ARG
27	A3	56	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	A3	57	HIS
27	A3	62	LEU
27	A3	66	LYS
27	A3	67	VAL
27	A3	70	ILE
27	A3	77	ARG
27	A3	78	PHE
27	A3	81	ILE
28	A4	2	GLN
28	A4	11	PRO
28	A4	15	ILE
28	A4	16	TYR
28	A4	19	GLN
28	A4	23	GLU
28	A4	25	MET
28	A4	29	PRO
28	A4	36	TRP
28	A4	37	SER
28	A4	46	GLU
28	A4	49	PHE
28	A4	51	ASP
28	A4	52	THR
28	A4	59	PHE
28	A4	67	TYR
28	A4	68	ARG
28	A4	73	LYS
29	A5	3	LYS
29	A5	5	PRO
29	A5	6	VAL
29	A5	10	LYS
29	A5	11	THR
29	A5	15	LYS
29	A5	18	MET
29	A5	22	HIS
29	A5	25	LEU
29	A5	31	THR
29	A5	34	PRO
29	A5	36	CYS
29	A5	42	SER
29	A5	45	ILE
29	A5	55	ARG
29	A5	57	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
30	A6	9	ILE
30	A6	20	PHE
30	A6	22	TYR
30	A6	23	THR
30	A6	25	THR
30	A6	28	ARG
30	A6	35	LEU
30	A6	41	ASP
30	A6	46	LYS
30	A6	47	HIS
30	A6	54	LYS
31	A7	3	ARG
31	A7	4	THR
31	A7	6	GLN
31	A7	8	ASN
31	A7	15	THR
31	A7	16	HIS
31	A7	22	MET
31	A7	25	LYS
31	A7	30	ILE
31	A7	35	ARG
32	A8	4	MET
32	A8	5	LYS
32	A8	8	LYS
32	A8	12	ARG
32	A8	13	ARG
32	A8	15	LYS
32	A8	16	ILE
32	A8	23	MET
32	A8	25	PHE
32	A8	31	HIS
32	A8	37	SER
32	A8	41	ILE
32	A8	42	ARG
32	A8	50	LEU
32	A8	55	TRP
32	A8	58	MET
32	A8	63	PRO
32	A8	64	ARG
33	A9	2	LYS
33	A9	7	VAL
33	A9	8	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
33	A9	13	ASN
33	A9	34	GLN
37	BE	9	GLU
37	BE	11	LEU
37	BE	12	GLU
37	BE	17	PHE
37	BE	21	ARG
37	BE	23	ARG
37	BE	25	ASN
37	BE	26	PRO
37	BE	36	ARG
37	BE	39	ILE
37	BE	42	ILE
37	BE	44	LEU
37	BE	48	MET
37	BE	56	ARG
37	BE	57	PHE
37	BE	61	LEU
37	BE	63	MET
37	BE	64	ARG
37	BE	73	THR
37	BE	75	LYS
37	BE	80	ILE
37	BE	98	LEU
37	BE	102	LEU
37	BE	104	ASN
37	BE	122	PHE
37	BE	130	ARG
37	BE	135	GLN
37	BE	143	GLU
37	BE	147	LYS
37	BE	148	TYR
37	BE	152	PHE
37	BE	154	LEU
37	BE	162	ILE
37	BE	169	LYS
37	BE	172	ILE
37	BE	185	ILE
37	BE	187	LEU
37	BE	190	THR
37	BE	201	ILE
37	BE	208	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
37	BE	209	ARG
37	BE	212	GLN
37	BE	214	ILE
37	BE	215	LEU
37	BE	217	ARG
37	BE	222	ILE
37	BE	223	ILE
37	BE	230	VAL
37	BE	238	LEU
38	BF	3	ASN
38	BF	8	ILE
38	BF	11	ARG
38	BF	12	LEU
38	BF	14	ILE
38	BF	18	TRP
38	BF	19	GLU
38	BF	20	SER
38	BF	28	GLN
38	BF	29	TYR
38	BF	34	LEU
38	BF	36	ASP
38	BF	43	LEU
38	BF	47	LEU
38	BF	52	LEU
38	BF	64	VAL
38	BF	67	THR
38	BF	73	PRO
38	BF	77	ILE
38	BF	91	LEU
38	BF	98	ASN
38	BF	110	ASN
38	BF	139	GLN
38	BF	142	MET
38	BF	156	ARG
38	BF	161	GLU
38	BF	164	ARG
38	BF	165	THR
38	BF	175	LEU
38	BF	176	HIS
38	BF	178	LEU
38	BF	188	LEU
38	BF	193	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
38	BF	196	LEU
38	BF	198	VAL
38	BF	204	LEU
39	BG	8	VAL
39	BG	13	ARG
39	BG	15	GLU
39	BG	20	TYR
39	BG	26	CYS
39	BG	27	TYR
39	BG	33	MET
39	BG	45	GLN
39	BG	47	ARG
39	BG	51	PRO
39	BG	53	ASP
39	BG	58	LEU
39	BG	60	GLU
39	BG	61	LYS
39	BG	62	GLN
39	BG	63	LYS
39	BG	64	LEU
39	BG	67	ILE
39	BG	77	ASN
39	BG	78	LEU
39	BG	83	SER
39	BG	86	LYS
39	BG	98	GLU
39	BG	99	SER
39	BG	107	ARG
39	BG	122	ARG
39	BG	125	HIS
39	BG	128	VAL
39	BG	131	ARG
39	BG	132	ARG
39	BG	135	LEU
39	BG	137	SER
39	BG	154	ASN
39	BG	159	ARG
39	BG	165	MET
39	BG	173	TRP
39	BG	175	SER
39	BG	176	LEU
39	BG	177	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
39	BG	181	MET
39	BG	182	LYS
39	BG	190	ASP
39	BG	192	GLU
39	BG	193	ASP
39	BG	200	GLU
40	BH	6	PHE
40	BH	10	MET
40	BH	11	ILE
40	BH	12	LEU
40	BH	13	ILE
40	BH	15	ARG
40	BH	18	ARG
40	BH	19	MET
40	BH	20	GLN
40	BH	26	PHE
40	BH	27	ARG
40	BH	28	PHE
40	BH	31	LEU
40	BH	36	ASP
40	BH	40	ARG
40	BH	41	VAL
40	BH	43	LEU
40	BH	53	LEU
40	BH	55	VAL
40	BH	56	GLN
40	BH	63	ARG
40	BH	64	ARG
40	BH	67	VAL
40	BH	68	GLU
40	BH	69	VAL
40	BH	71	LEU
40	BH	75	THR
40	BH	76	ILE
40	BH	78	HIS
40	BH	79	GLU
40	BH	80	ILE
40	BH	81	GLU
40	BH	82	VAL
40	BH	89	ILE
40	BH	96	PRO
40	BH	101	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
40	BH	105	VAL
40	BH	106	PRO
40	BH	109	ILE
40	BH	112	LEU
40	BH	115	VAL
40	BH	117	ASP
40	BH	118	ILE
40	BH	120	THR
40	BH	127	ASN
40	BH	128	PRO
40	BH	131	ILE
40	BH	137	GLU
40	BH	140	ARG
40	BH	145	LYS
40	BH	150	ARG
41	BI	4	TYR
41	BI	6	VAL
41	BI	9	VAL
41	BI	10	LEU
41	BI	11	ASN
41	BI	14	LEU
41	BI	18	GLN
41	BI	24	GLU
41	BI	28	ARG
41	BI	36	ARG
41	BI	37	VAL
41	BI	39	LYS
41	BI	40	VAL
41	BI	47	ARG
41	BI	52	ILE
41	BI	57	GLN
41	BI	67	MET
41	BI	70	ASP
41	BI	74	ASP
41	BI	79	LEU
41	BI	90	VAL
41	BI	94	GLN
41	BI	95	GLU
41	BI	96	PRO
41	BI	100	ASN
42	BJ	8	GLU
42	BJ	10	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
42	BJ	16	LEU
42	BJ	28	ASN
42	BJ	36	LYS
42	BJ	37	ASN
42	BJ	52	GLU
42	BJ	72	ARG
42	BJ	84	ASN
42	BJ	90	GLU
42	BJ	102	ARG
42	BJ	103	TRP
42	BJ	104	LEU
42	BJ	106	GLN
42	BJ	111	ARG
42	BJ	113	GLU
42	BJ	114	ARG
42	BJ	118	VAL
42	BJ	122	HIS
42	BJ	124	LEU
42	BJ	126	ASP
42	BJ	135	VAL
42	BJ	155	ARG
43	BK	1	MET
43	BK	3	THR
43	BK	4	ASP
43	BK	5	PRO
43	BK	6	ILE
43	BK	14	ARG
43	BK	18	ARG
43	BK	23	SER
43	BK	26	VAL
43	BK	33	GLU
43	BK	34	GLU
43	BK	35	ILE
43	BK	36	LEU
43	BK	37	ARG
43	BK	38	ILE
43	BK	39	LEU
43	BK	45	ILE
43	BK	49	GLU
43	BK	53	VAL
43	BK	58	TYR
43	BK	59	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
43	BK	63	LEU
43	BK	65	TYR
43	BK	70	GLN
43	BK	75	ARG
43	BK	78	GLN
43	BK	80	ILE
43	BK	83	ILE
43	BK	84	ARG
43	BK	91	ARG
43	BK	92	ARG
43	BK	93	VAL
43	BK	98	LYS
43	BK	100	ILE
43	BK	102	ARG
43	BK	103	VAL
43	BK	105	ARG
43	BK	107	LEU
43	BK	109	ILE
43	BK	111	ILE
43	BK	112	LEU
43	BK	116	LYS
43	BK	120	THR
43	BK	121	ASP
43	BK	122	ARG
43	BK	126	LYS
43	BK	127	LEU
43	BK	136	GLU
44	BL	3	GLN
44	BL	4	TYR
44	BL	10	ARG
44	BL	31	GLN
44	BL	32	ASP
44	BL	37	PHE
44	BL	38	GLN
44	BL	50	LEU
44	BL	64	THR
44	BL	75	ASP
44	BL	102	LEU
44	BL	108	VAL
44	BL	110	GLU
44	BL	114	TYR
44	BL	116	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
45	BM	5	ARG
45	BM	9	ARG
45	BM	11	PHE
45	BM	12	ASP
45	BM	13	HIS
45	BM	22	LYS
45	BM	45	ARG
45	BM	47	PHE
45	BM	60	ARG
45	BM	62	HIS
45	BM	63	PHE
45	BM	64	GLU
45	BM	71	LEU
45	BM	73	ASP
45	BM	77	PRO
45	BM	78	ASN
45	BM	83	GLU
45	BM	86	MET
45	BM	95	GLU
45	BM	100	THR
46	BN	13	GLN
46	BN	16	SER
46	BN	18	ARG
46	BN	21	ILE
46	BN	34	ASP
46	BN	40	ILE
46	BN	50	TYR
46	BN	54	ARG
46	BN	62	GLN
46	BN	66	LEU
46	BN	67	ASP
46	BN	73	MET
46	BN	75	TYR
46	BN	77	MET
46	BN	78	GLN
46	BN	87	THR
46	BN	92	GLU
46	BN	103	LEU
46	BN	107	SER
46	BN	108	ILE
46	BN	116	HIS
46	BN	121	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
46	BN	129	SER
47	BO	12	ARG
47	BO	13	LYS
47	BO	17	LYS
47	BO	23	LYS
47	BO	24	VAL
47	BO	33	ARG
47	BO	42	THR
47	BO	48	PRO
47	BO	60	LEU
47	BO	61	THR
47	BO	66	VAL
47	BO	78	GLN
47	BO	80	HIS
47	BO	93	LEU
47	BO	96	VAL
47	BO	99	HIS
47	BO	100	ILE
47	BO	101	VAL
47	BO	113	ARG
47	BO	119	LYS
47	BO	122	THR
47	BO	126	LYS
48	BP	9	ILE
48	BP	11	ARG
48	BP	20	THR
48	BP	25	ILE
48	BP	32	GLU
48	BP	37	THR
48	BP	39	ILE
48	BP	43	THR
48	BP	47	ASP
48	BP	48	LEU
48	BP	56	LEU
48	BP	61	GLU
48	BP	64	TRP
48	BP	66	LEU
48	BP	74	VAL
48	BP	77	ASN
48	BP	80	ARG
48	BP	81	LEU
48	BP	82	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
48	BP	96	LEU
48	BP	108	ARG
48	BP	109	THR
48	BP	110	ARG
48	BP	121	LYS
48	BP	124	PRO
49	BQ	21	TYR
49	BQ	22	THR
49	BQ	25	VAL
49	BQ	34	TYR
49	BQ	40	CYS
49	BQ	43	CYS
49	BQ	44	LEU
49	BQ	46	GLU
49	BQ	58	LYS
50	BR	3	ILE
50	BR	4	THR
50	BR	6	GLU
50	BR	22	THR
50	BR	25	THR
50	BR	26	GLU
50	BR	32	LEU
50	BR	33	THR
50	BR	34	LEU
50	BR	36	ILE
50	BR	38	ARG
50	BR	44	LYS
50	BR	46	HIS
50	BR	56	LEU
50	BR	57	LEU
50	BR	58	MET
50	BR	63	ARG
50	BR	65	ARG
50	BR	70	LEU
50	BR	77	ARG
50	BR	81	LEU
50	BR	83	GLU
50	BR	85	LEU
50	BR	87	ILE
51	BS	1	MET
51	BS	3	LYS
51	BS	4	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
51	BS	6	LEU
51	BS	8	ARG
51	BS	11	SER
51	BS	12	LYS
51	BS	14	ASN
51	BS	17	TYR
51	BS	21	VAL
51	BS	22	THR
51	BS	27	LYS
51	BS	28	ARG
51	BS	32	TYR
51	BS	34	GLU
51	BS	36	ILE
51	BS	40	ASP
51	BS	44	THR
51	BS	52	ASP
51	BS	55	ARG
51	BS	58	TYR
51	BS	62	VAL
51	BS	65	GLN
51	BS	66	PRO
51	BS	68	ASP
51	BS	69	THR
51	BS	71	ARG
51	BS	73	LEU
51	BS	74	LEU
51	BS	75	ARG
52	BT	9	VAL
52	BT	11	VAL
52	BT	18	THR
52	BT	19	VAL
52	BT	21	VAL
52	BT	23	VAL
52	BT	24	GLU
52	BT	28	PRO
52	BT	31	LEU
52	BT	36	ILE
52	BT	37	LYS
52	BT	39	SER
52	BT	43	LEU
52	BT	48	GLU
52	BT	51	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
52	BT	57	VAL
52	BT	58	GLU
52	BT	60	ILE
52	BT	62	SER
52	BT	75	ARG
52	BT	76	LEU
52	BT	78	GLU
52	BT	93	GLN
52	BT	96	GLN
52	BT	101	ARG
53	BU	22	VAL
53	BU	25	THR
53	BU	28	GLU
53	BU	36	ASN
53	BU	38	GLU
53	BU	40	LEU
53	BU	44	LEU
53	BU	49	LYS
53	BU	62	GLU
53	BU	72	ARG
53	BU	74	ARG
53	BU	75	ILE
53	BU	76	LEU
53	BU	79	LEU
53	BU	81	PHE
53	BU	83	GLU
54	BV	15	LEU
54	BV	18	LYS
54	BV	20	LEU
54	BV	21	GLU
54	BV	25	LYS
54	BV	30	LEU
54	BV	31	ILE
54	BV	34	TRP
54	BV	43	GLU
54	BV	53	ASN
54	BV	57	HIS
54	BV	64	GLU
54	BV	77	THR
55	BW	8	ARG
55	BW	13	LEU
55	BW	16	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
55	BW	19	SER
55	BW	26	ASN
55	BW	30	LYS
55	BW	33	ILE
55	BW	36	LEU
55	BW	42	GLN
55	BW	46	GLU
55	BW	51	GLU
55	BW	61	SER
55	BW	62	LEU
55	BW	63	ILE
55	BW	71	THR
55	BW	72	LEU
55	BW	73	HIS
55	BW	75	ASN
55	BW	79	ARG
55	BW	82	SER
55	BW	90	GLN
55	BW	105	SER
56	BX	12	LYS
56	BX	13	ILE
56	BX	18	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (199) such sidechains are listed below:

Mol	Chain	Res	Type
3	AC	27	HIS
3	AC	57	ASN
3	AC	139	ASN
3	AC	148	ASN
3	AC	227	HIS
4	AD	60	GLN
4	AD	85	ASN
4	AD	89	ASN
4	AD	108	ASN
4	AD	133	ASN
4	AD	142	ASN
4	AD	152	GLN
4	AD	196	ASN
4	AD	212	HIS
4	AD	223	ASN
4	AD	230	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	AD	234	HIS
5	AE	237	ASN
5	AE	242	ASN
5	AE	259	HIS
5	AE	265	ASN
5	AE	320	GLN
6	AF	11	ASN
6	AF	103	ASN
6	AF	219	ASN
7	AG	36	ASN
7	AG	47	GLN
7	AG	133	ASN
8	AH	21	ASN
8	AH	59	HIS
8	AH	73	ASN
8	AH	110	HIS
8	AH	127	GLN
8	AH	146	ASN
9	AI	72	GLN
9	AJ	72	GLN
10	AK	28	ASN
10	AK	33	GLN
10	AK	43	ASN
10	AK	55	GLN
10	AK	64	ASN
10	AK	103	GLN
10	AK	106	HIS
11	AL	12	GLN
11	AL	31	HIS
12	AM	40	ASN
12	AM	92	GLN
13	AN	34	ASN
13	AN	82	ASN
14	AO	55	GLN
14	AO	113	GLN
15	AP	48	ASN
15	AP	59	ASN
15	AP	66	ASN
15	AP	74	ASN
15	AP	116	HIS
15	AP	120	HIS
15	AP	148	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
15	AP	156	ASN
16	AQ	53	ASN
18	AS	34	ASN
18	AS	40	ASN
18	AS	61	ASN
19	AT	55	GLN
19	AT	56	ASN
20	AU	3	GLN
20	AU	7	GLN
20	AU	17	HIS
20	AU	20	HIS
20	AU	22	GLN
20	AU	43	ASN
20	AU	73	HIS
21	AV	45	GLN
21	AV	46	GLN
21	AV	70	GLN
21	AV	118	HIS
21	AV	121	GLN
21	AV	146	HIS
22	AW	29	ASN
22	AW	42	ASN
23	AX	46	ASN
24	A0	16	HIS
24	A0	31	HIS
25	A1	37	GLN
25	A1	52	ASN
25	A1	81	ASN
25	A1	87	ASN
25	A1	115	ASN
25	A1	118	GLN
26	A2	79	GLN
26	A2	88	GLN
26	A2	89	ASN
27	A3	17	ASN
27	A3	35	ASN
27	A3	49	GLN
27	A3	57	HIS
27	A3	71	ASN
28	A4	2	GLN
28	A4	17	GLN
28	A4	19	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
28	A4	32	HIS
28	A4	60	ASN
29	A5	4	HIS
29	A5	29	ASN
29	A5	35	GLN
29	A5	37	HIS
29	A5	48	ASN
29	A5	56	GLN
30	A6	27	ASN
31	A7	6	GLN
31	A7	8	ASN
31	A7	9	ASN
31	A7	29	ASN
32	A8	31	HIS
37	BE	19	HIS
37	BE	25	ASN
37	BE	37	ASN
37	BE	40	HIS
37	BE	78	GLN
37	BE	135	GLN
37	BE	146	GLN
37	BE	204	ASN
37	BE	212	GLN
37	BE	224	GLN
37	BE	240	GLN
38	BF	3	ASN
38	BF	28	GLN
38	BF	98	ASN
38	BF	107	GLN
38	BF	110	ASN
38	BF	136	GLN
38	BF	139	GLN
38	BF	170	GLN
39	BG	42	GLN
39	BG	45	GLN
39	BG	62	GLN
39	BG	103	ASN
39	BG	154	ASN
40	BH	20	GLN
40	BH	56	GLN
40	BH	65	ASN
40	BH	73	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
40	BH	78	HIS
41	BI	13	ASN
41	BI	18	GLN
41	BI	32	ASN
41	BI	57	GLN
41	BI	64	GLN
41	BI	94	GLN
41	BI	100	ASN
42	BJ	11	GLN
42	BJ	64	GLN
42	BJ	68	ASN
42	BJ	106	GLN
42	BJ	109	ASN
42	BJ	122	HIS
42	BJ	148	ASN
43	BK	15	ASN
43	BK	78	GLN
44	BL	3	GLN
44	BL	31	GLN
44	BL	73	GLN
44	BL	87	GLN
44	BL	89	ASN
45	BM	56	HIS
45	BM	76	ASN
45	BM	78	ASN
45	BM	84	GLN
46	BN	13	GLN
46	BN	27	ASN
46	BN	62	GLN
46	BN	78	GLN
46	BN	117	ASN
47	BO	76	ASN
48	BP	12	ASN
48	BP	40	ASN
48	BP	77	ASN
48	BP	92	HIS
48	BP	106	ASN
50	BR	13	GLN
50	BR	37	ASN
50	BR	42	HIS
50	BR	62	GLN
51	BS	13	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
51	BS	76	GLN
51	BS	82	GLN
52	BT	16	GLN
52	BT	94	ASN
53	BU	36	ASN
54	BV	14	HIS
54	BV	56	GLN
54	BV	57	HIS
54	BV	69	HIS
55	BW	9	ASN
55	BW	26	ASN
55	BW	42	GLN
55	BW	45	GLN
55	BW	73	HIS
55	BW	75	ASN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AB	122/123 (99%)	47 (38%)	5 (4%)
2	AA	2870/2915 (98%)	1233 (42%)	290 (10%)
34	BA	1515/1522 (99%)	455 (30%)	161 (10%)
35	BB	76/76 (100%)	35 (46%)	16 (21%)
35	BC	75/76 (98%)	31 (41%)	9 (12%)
36	B1	65/78 (83%)	24 (36%)	4 (6%)
All	All	4723/4790 (98%)	1825 (38%)	485 (10%)

All (1825) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AB	0	A
1	AB	1	U
1	AB	2	C
1	AB	3	C
1	AB	9	G
1	AB	12	C
1	AB	13	A
1	AB	15	A
1	AB	16	G
1	AB	18	G
1	AB	25	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AB	32	C
1	AB	34	U
1	AB	40	U
1	AB	41	U
1	AB	42	C
1	AB	43	C
1	AB	45	A
1	AB	46	A
1	AB	48	A
1	AB	51	G
1	AB	52	A
1	AB	57	A
1	AB	59	A
1	AB	61	G
1	AB	62	C
1	AB	66	A
1	AB	67	G
1	AB	69	G
1	AB	73	A
1	AB	87	G
1	AB	88	C
1	AB	89	G
1	AB	90	C
1	AB	96	G
1	AB	99	A
1	AB	103	U
1	AB	104	A
1	AB	108	C
1	AB	109	G
1	AB	110	G
1	AB	113	C
1	AB	114	G
1	AB	115	G
1	AB	117	G
1	AB	119	A
1	AB	120	U
2	AA	9	U
2	AA	13	A
2	AA	14	A
2	AA	17	G
2	AA	29	U
2	AA	33	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	34	C
2	AA	35	G
2	AA	40	C
2	AA	46	C
2	AA	49	A
2	AA	50	U
2	AA	51	G
2	AA	52	A
2	AA	55	G
2	AA	60	G
2	AA	61	G
2	AA	63	U
2	AA	69	C
2	AA	71	A
2	AA	72	U
2	AA	73	A
2	AA	74	A
2	AA	75	G
2	AA	77	C
2	AA	83	G
2	AA	84	A
2	AA	88	G
2	AA	90	U
2	AA	91	A
2	AA	92	G
2	AA	95	G
2	AA	101	G
2	AA	102	G
2	AA	103	A
2	AA	104	U
2	AA	107	C
2	AA	108	U
2	AA	109	G
2	AA	112	U
2	AA	113	G
2	AA	117	G
2	AA	119	A
2	AA	120	U
2	AA	121	G
2	AA	122	G
2	AA	125	G
2	AA	126	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	129	C
2	AA	132	G
2	AA	133	C
2	AA	136	G
2	AA	137	C
2	AA	137(A)	G
2	AA	138	G
2	AA	139	G
2	AA	140	A
2	AA	141	A
2	AA	141(A)	C
2	AA	142	G
2	AA	143	C
2	AA	152	G
2	AA	153	C
2	AA	161	U
2	AA	163	U
2	AA	164	U
2	AA	171	G
2	AA	172	C
2	AA	173	G
2	AA	178	G
2	AA	180	G
2	AA	181	A
2	AA	182	A
2	AA	190	A
2	AA	191	A
2	AA	192	C
2	AA	196	A
2	AA	197	A
2	AA	203	C
2	AA	204	A
2	AA	205	G
2	AA	206	U
2	AA	214	G
2	AA	215	G
2	AA	216	A
2	AA	218	A
2	AA	221	A
2	AA	222	A
2	AA	223	A
2	AA	228	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	229	A
2	AA	232	G
2	AA	233	A
2	AA	239	U
2	AA	241	A
2	AA	242	G
2	AA	243	U
2	AA	248	G
2	AA	249	C
2	AA	252	G
2	AA	264	C
2	AA	265	A
2	AA	266	G
2	AA	269	U
2	AA	270(A)	A
2	AA	270(B)	A
2	AA	270(C)	C
2	AA	270(L)	U
2	AA	270(M)	U
2	AA	270(N)	G
2	AA	270(O)	U
2	AA	270(T)	G
2	AA	270(U)	C
2	AA	270(V)	G
2	AA	270(X)	G
2	AA	270(Y)	G
2	AA	270(Z)	U
2	AA	271(A)	C
2	AA	271(C)	U
2	AA	271	G
2	AA	273	G
2	AA	273(F)	C
2	AA	276	A
2	AA	277	C
2	AA	279	C
2	AA	280	C
2	AA	281	G
2	AA	282	A
2	AA	283	A
2	AA	286	C
2	AA	287	C
2	AA	288	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	289	A
2	AA	290	G
2	AA	291	C
2	AA	293	U
2	AA	295	G
2	AA	299	A
2	AA	301	G
2	AA	302	C
2	AA	303	U
2	AA	308	G
2	AA	310	A
2	AA	311	A
2	AA	312	G
2	AA	316	C
2	AA	318	C
2	AA	320	A
2	AA	322	A
2	AA	323	G
2	AA	324	A
2	AA	329	G
2	AA	330	A
2	AA	331	A
2	AA	332	A
2	AA	333	G
2	AA	338	G
2	AA	339	U
2	AA	340	A
2	AA	341	G
2	AA	342	G
2	AA	347	A
2	AA	349	G
2	AA	350	U
2	AA	351	G
2	AA	354	G
2	AA	358	U
2	AA	359	A
2	AA	360	G
2	AA	362	U
2	AA	363(A)	A
2	AA	363(C)	G
2	AA	363(F)	A
2	AA	370	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	371	A
2	AA	372	G
2	AA	373	U
2	AA	374	A
2	AA	380	U
2	AA	386	G
2	AA	387	U
2	AA	388	G
2	AA	391	G
2	AA	401	A
2	AA	403	U
2	AA	404	C
2	AA	405	U
2	AA	406	G
2	AA	411	G
2	AA	412	A
2	AA	420	C
2	AA	421	U
2	AA	422	A
2	AA	423	A
2	AA	428	A
2	AA	430	G
2	AA	435	C
2	AA	442	G
2	AA	443	A
2	AA	444	C
2	AA	448	U
2	AA	449	A
2	AA	451	C
2	AA	453	C
2	AA	455	C
2	AA	456	C
2	AA	457	A
2	AA	458	G
2	AA	466	A
2	AA	470	A
2	AA	471	A
2	AA	473	G
2	AA	475	U
2	AA	480	A
2	AA	481	G
2	AA	483	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	492	A
2	AA	493	G
2	AA	498	G
2	AA	501	A
2	AA	503	A
2	AA	504	U
2	AA	505	A
2	AA	506	G
2	AA	507	A
2	AA	508	G
2	AA	509	C
2	AA	510	C
2	AA	527	C
2	AA	528	A
2	AA	529	A
2	AA	530	G
2	AA	531	C
2	AA	532	A
2	AA	533	G
2	AA	535	C
2	AA	541	C
2	AA	544	C
2	AA	545	G
2	AA	546	C
2	AA	548	A
2	AA	549	G
2	AA	556	G
2	AA	559	G
2	AA	560	C
2	AA	561	G
2	AA	562	U
2	AA	563	G
2	AA	566	U
2	AA	568	U
2	AA	571	A
2	AA	572	A
2	AA	573	G
2	AA	574	C
2	AA	575	A
2	AA	578	A
2	AA	579	G
2	AA	585	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	586	A
2	AA	588	U
2	AA	595	C
2	AA	598	G
2	AA	600	G
2	AA	603	A
2	AA	612	G
2	AA	613	U
2	AA	614	U
2	AA	615	G
2	AA	616	A
2	AA	617	G
2	AA	619	G
2	AA	620	G
2	AA	621	A
2	AA	622	G
2	AA	624	C
2	AA	625	G
2	AA	627	A
2	AA	631	A
2	AA	634	C
2	AA	637	A
2	AA	640	C
2	AA	641	C
2	AA	643	A
2	AA	646	A
2	AA	647	G
2	AA	653	A
2	AA	654	A
2	AA	655	A
2	AA	656	G
2	AA	666	G
2	AA	667	U
2	AA	669	G
2	AA	670	A
2	AA	671	C
2	AA	673	C
2	AA	676	A
2	AA	677	A
2	AA	686	G
2	AA	687	C
2	AA	688	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	690	G
2	AA	698	C
2	AA	704	G
2	AA	705	A
2	AA	706	A
2	AA	713	G
2	AA	715	G
2	AA	718	A
2	AA	719	C
2	AA	725	G
2	AA	726	G
2	AA	727	A
2	AA	728	G
2	AA	729	G
2	AA	730	C
2	AA	734	A
2	AA	735	A
2	AA	739	G
2	AA	740	U
2	AA	741	G
2	AA	743	G
2	AA	745	G
2	AA	746	A
2	AA	747	U
2	AA	748	G
2	AA	749	C
2	AA	753	C
2	AA	763	G
2	AA	764	A
2	AA	765	G
2	AA	774	A
2	AA	775	G
2	AA	776	G
2	AA	777	A
2	AA	781	A
2	AA	782	A
2	AA	783	A
2	AA	784	A
2	AA	785	G
2	AA	786	C
2	AA	787	U
2	AA	788	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	789	A
2	AA	790	C
2	AA	791	C
2	AA	792	G
2	AA	793	A
2	AA	794	G
2	AA	795	C
2	AA	797	C
2	AA	798	G
2	AA	799	G
2	AA	800	A
2	AA	801	G
2	AA	802	A
2	AA	805	G
2	AA	806	C
2	AA	809	G
2	AA	812	C
2	AA	816	C
2	AA	819	A
2	AA	827	U
2	AA	828	U
2	AA	830	G
2	AA	831	G
2	AA	834	C
2	AA	838	C
2	AA	839	U
2	AA	844	C
2	AA	846	C
2	AA	847	U
2	AA	848	G
2	AA	858	U
2	AA	859	G
2	AA	860	U
2	AA	861	A
2	AA	863	A
2	AA	865	C
2	AA	867	C
2	AA	870	A
2	AA	873	G
2	AA	886	C
2	AA	887	A
2	AA	888	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	889	C
2	AA	890	A
2	AA	892	G
2	AA	896	A
2	AA	897	C
2	AA	899	A
2	AA	902	C
2	AA	906	G
2	AA	907	U
2	AA	908	C
2	AA	910	A
2	AA	914	C
2	AA	918	A
2	AA	919	G
2	AA	920	G
2	AA	930	U
2	AA	931	G
2	AA	932	G
2	AA	933	A
2	AA	935	C
2	AA	936	C
2	AA	941	A
2	AA	942	G
2	AA	943	U
2	AA	944	G
2	AA	945	A
2	AA	946	G
2	AA	957	A
2	AA	958	U
2	AA	959	A
2	AA	960	A
2	AA	961	C
2	AA	962	G
2	AA	972	G
2	AA	973	A
2	AA	974	G
2	AA	974(A)	C
2	AA	975	G
2	AA	976	C
2	AA	982	C
2	AA	983	A
2	AA	984	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	985	C
2	AA	989	G
2	AA	990	A
2	AA	991	C
2	AA	993	G
2	AA	994	C
2	AA	995	C
2	AA	996	A
2	AA	997	G
2	AA	1008	C
2	AA	1009	A
2	AA	1012	U
2	AA	1013	C
2	AA	1015	G
2	AA	1019	U
2	AA	1021	A
2	AA	1022	G
2	AA	1023	U
2	AA	1025	G
2	AA	1026	U
2	AA	1027	A
2	AA	1030	G
2	AA	1033	U
2	AA	1038	C
2	AA	1041	C
2	AA	1044	G
2	AA	1045	A
2	AA	1046	A
2	AA	1047	G
2	AA	1056	G
2	AA	1059	G
2	AA	1060	U
2	AA	1061	U
2	AA	1062	G
2	AA	1063	G
2	AA	1066	U
2	AA	1067	A
2	AA	1068	G
2	AA	1069	A
2	AA	1070	A
2	AA	1071	G
2	AA	1072	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	1073	A
2	AA	1074	G
2	AA	1077	A
2	AA	1083	U
2	AA	1084	A
2	AA	1085	A
2	AA	1086	A
2	AA	1087	G
2	AA	1088	A
2	AA	1089	G
2	AA	1090	U
2	AA	1091	G
2	AA	1093	G
2	AA	1096	A
2	AA	1097	U
2	AA	1098	A
2	AA	1099	G
2	AA	1101	U
2	AA	1103	A
2	AA	1104	C
2	AA	1105	U
2	AA	1106	G
2	AA	1109	C
2	AA	1110	G
2	AA	1112	G
2	AA	1116	C
2	AA	1123	C
2	AA	1126	A
2	AA	1127	A
2	AA	1128	A
2	AA	1130	U
2	AA	1131	G
2	AA	1132	A
2	AA	1134	G
2	AA	1135	C
2	AA	1141	U
2	AA	1142	U
2	AA	1142(A)	A
2	AA	1143	A
2	AA	1154	G
2	AA	1155	A
2	AA	1156	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	1157	G
2	AA	1162	G
2	AA	1165	U
2	AA	1171	G
2	AA	1173	G
2	AA	1176	G
2	AA	1177	A
2	AA	1179	C
2	AA	1180	C
2	AA	1181	C
2	AA	1182	A
2	AA	1183	G
2	AA	1184	G
2	AA	1185	C
2	AA	1186	G
2	AA	1197	G
2	AA	1199	U
2	AA	1201	C
2	AA	1203	G
2	AA	1204	A
2	AA	1205	U
2	AA	1206	G
2	AA	1207	C
2	AA	1209	G
2	AA	1210	A
2	AA	1211	U
2	AA	1212	G
2	AA	1213	A
2	AA	1220	A
2	AA	1221	C
2	AA	1222	C
2	AA	1224	G
2	AA	1227	A
2	AA	1228	G
2	AA	1238	G
2	AA	1239	G
2	AA	1240	U
2	AA	1241	A
2	AA	1242	A
2	AA	1247	A
2	AA	1248	G
2	AA	1249	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	1251	C
2	AA	1252	G
2	AA	1253	A
2	AA	1254	A
2	AA	1255	U
2	AA	1256	G
2	AA	1260	G
2	AA	1261	C
2	AA	1265	A
2	AA	1266	G
2	AA	1268	A
2	AA	1269	A
2	AA	1270	C
2	AA	1271	G
2	AA	1272	A
2	AA	1273	U
2	AA	1275	A
2	AA	1289	C
2	AA	1301	A
2	AA	1302	A
2	AA	1303	G
2	AA	1304	C
2	AA	1305	C
2	AA	1311	G
2	AA	1313	U
2	AA	1314	C
2	AA	1316	U
2	AA	1321	A
2	AA	1324	G
2	AA	1325	G
2	AA	1326	U
2	AA	1329	U
2	AA	1330	C
2	AA	1333	C
2	AA	1341	U
2	AA	1342	A
2	AA	1343	G
2	AA	1344	G
2	AA	1345	C
2	AA	1347	G
2	AA	1349	A
2	AA	1361	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	1363	C
2	AA	1364	G
2	AA	1365	A
2	AA	1366	A
2	AA	1368	G
2	AA	1378	A
2	AA	1379	A
2	AA	1384	A
2	AA	1385	G
2	AA	1391	U
2	AA	1394	U
2	AA	1395	A
2	AA	1398	C
2	AA	1404	C
2	AA	1407	C
2	AA	1415	U
2	AA	1416	G
2	AA	1417	C
2	AA	1418	G
2	AA	1419	A
2	AA	1421	G
2	AA	1424	G
2	AA	1425	G
2	AA	1427	A
2	AA	1428	C
2	AA	1429	G
2	AA	1433	U
2	AA	1438	U
2	AA	1439	A
2	AA	1444	G
2	AA	444(A)	A
2	AA	1445	C
2	AA	1450	C
2	AA	1451	C
2	AA	1453	A
2	AA	1454	U
2	AA	1455	G
2	AA	1460	A
2	AA	1461	G
2	AA	1464	C
2	AA	1467	C
2	AA	1469	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	1475	G
2	AA	1477	A
2	AA	1478	G
2	AA	1480	G
2	AA	1482	U
2	AA	1483	G
2	AA	1485	G
2	AA	1490	A
2	AA	1491	G
2	AA	1492	G
2	AA	1494	A
2	AA	1495	A
2	AA	1496	A
2	AA	1497	U
2	AA	1498	C
2	AA	1499	C
2	AA	1507	A
2	AA	1508	A
2	AA	1509	C
2	AA	1510	A
2	AA	1511	A
2	AA	1512	G
2	AA	1513	C
2	AA	1514	U
2	AA	1515	C
2	AA	1516	U
2	AA	1519	G
2	AA	1521	G
2	AA	1522	G
2	AA	1526	G
2	AA	1527	G
2	AA	1528	A
2	AA	1529	A
2	AA	1530	G
2	AA	1531	C
2	AA	1533	C
2	AA	1536	A
2	AA	1537	C
2	AA	1538	G
2	AA	1539	G
2	AA	1540	G
2	AA	1541	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	1543	A
2	AA	1544	C
2	AA	1546	C
2	AA	1547	C
2	AA	1553	A
2	AA	1555	G
2	AA	1556	C
2	AA	1558	A
2	AA	1559	G
2	AA	1560	G
2	AA	1561	G
2	AA	1565	C
2	AA	1566	A
2	AA	1567	A
2	AA	1568	G
2	AA	1569	A
2	AA	1570	A
2	AA	1571	A
2	AA	1572	A
2	AA	1573	G
2	AA	1575	C
2	AA	1577	C
2	AA	1578	U
2	AA	1579	A
2	AA	1583	A
2	AA	1585	C
2	AA	1586	A
2	AA	1587	A
2	AA	1602	U
2	AA	1603	A
2	AA	1604	C
2	AA	1607	C
2	AA	1608	A
2	AA	1609	A
2	AA	1610	A
2	AA	1611	C
2	AA	1612	C
2	AA	1614	A
2	AA	1615	C
2	AA	1616	A
2	AA	1617	C
2	AA	1618	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	1619	G
2	AA	1621	U
2	AA	1625	C
2	AA	1626	G
2	AA	1627	G
2	AA	1634	A
2	AA	1635	G
2	AA	1639	U
2	AA	1640	C
2	AA	1641	A
2	AA	1645	G
2	AA	1646	C
2	AA	1647	G
2	AA	1648	C
2	AA	1651	G
2	AA	1652	A
2	AA	1653	G
2	AA	1655	A
2	AA	1657	C
2	AA	1658	C
2	AA	1664	A
2	AA	1665	A
2	AA	1667	G
2	AA	1668	A
2	AA	1669	A
2	AA	1670	C
2	AA	1671	U
2	AA	1673	U
2	AA	1674	G
2	AA	1675	C
2	AA	1676	A
2	AA	1677	A
2	AA	1678	G
2	AA	1681	G
2	AA	1682	G
2	AA	1688	U
2	AA	1689	A
2	AA	1694	C
2	AA	1695	G
2	AA	1696	G
2	AA	1698	A
2	AA	1699	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	1700	A
2	AA	1701	A
2	AA	1707	G
2	AA	1709	U
2	AA	1725	G
2	AA	1726	G
2	AA	1727	U
2	AA	1728	G
2	AA	1730	U
2	AA	1731	G
2	AA	1732	A
2	AA	1733	G
2	AA	1743	G
2	AA	1746	G
2	AA	1747	G
2	AA	1755	A
2	AA	1757	U
2	AA	1758	G
2	AA	1759	A
2	AA	1760	A
2	AA	1761	C
2	AA	1762	A
2	AA	1763	G
2	AA	1764	G
2	AA	1765	C
2	AA	1767	C
2	AA	1772	G
2	AA	1773	A
2	AA	1775	U
2	AA	1776	G
2	AA	1780	A
2	AA	1781	C
2	AA	1782	C
2	AA	1783	A
2	AA	1784	A
2	AA	1785	A
2	AA	1786	A
2	AA	1787	A
2	AA	1789	A
2	AA	1790	C
2	AA	1791	A
2	AA	1796	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	1800	C
2	AA	1801	G
2	AA	1802	A
2	AA	1804	C
2	AA	1805	U
2	AA	1809	A
2	AA	1810	A
2	AA	1811	G
2	AA	1815	A
2	AA	1816	G
2	AA	1817	G
2	AA	1820	U
2	AA	1821	A
2	AA	1826	G
2	AA	1828	G
2	AA	1829	A
2	AA	1838	C
2	AA	1839	G
2	AA	1840	G
2	AA	1847	A
2	AA	1852	C
2	AA	1857	G
2	AA	1858	G
2	AA	1860	G
2	AA	1878	G
2	AA	1881	C
2	AA	1883	G
2	AA	1884	A
2	AA	1888	G
2	AA	1891	G
2	AA	1895	C
2	AA	1900	A
2	AA	1901	A
2	AA	1903	G
2	AA	1906	G
2	AA	1913	A
2	AA	1914	C
2	AA	1915	U
2	AA	1916	A
2	AA	1917	U
2	AA	1918	A
2	AA	1919	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	1923	U
2	AA	1927	A
2	AA	1928	A
2	AA	1929	G
2	AA	1930	G
2	AA	1931	U
2	AA	1936	A
2	AA	1937	A
2	AA	1938	A
2	AA	1939	U
2	AA	1940	U
2	AA	1941	C
2	AA	1942	C
2	AA	1943	U
2	AA	1944	U
2	AA	1945	G
2	AA	1953	A
2	AA	1955	U
2	AA	1956	U
2	AA	1957	C
2	AA	1958	C
2	AA	1963	U
2	AA	1964	G
2	AA	1965	C
2	AA	1966	A
2	AA	1967	C
2	AA	1968	G
2	AA	1969	A
2	AA	1970	A
2	AA	1971	A
2	AA	1972	A
2	AA	1977	A
2	AA	1978	A
2	AA	1981	A
2	AA	1982	C
2	AA	1993	U
2	AA	1996	C
2	AA	1997	G
2	AA	1998	G
2	AA	2005	A
2	AA	2012	G
2	AA	2015	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	2016	U
2	AA	2018	G
2	AA	2020	A
2	AA	2021	C
2	AA	2023	G
2	AA	2031	A
2	AA	2032	G
2	AA	2033	A
2	AA	2034	U
2	AA	2035	G
2	AA	2036	C
2	AA	2041	U
2	AA	2043	C
2	AA	2044	C
2	AA	2046	G
2	AA	2048	G
2	AA	2050	C
2	AA	2051	A
2	AA	2052	G
2	AA	2055	C
2	AA	2056	G
2	AA	2058	A
2	AA	2060	A
2	AA	2061	G
2	AA	2062	A
2	AA	2063	C
2	AA	2068	U
2	AA	2069	G
2	AA	2074	U
2	AA	2076	U
2	AA	2077	A
2	AA	2092	U
2	AA	2093	G
2	AA	2111	C
2	AA	2114	A
2	AA	2115	G
2	AA	2116	G
2	AA	2117	A
2	AA	2118	U
2	AA	2119	A
2	AA	2120	G
2	AA	2121	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	2122	U
2	AA	2123	G
2	AA	2125	G
2	AA	2126	A
2	AA	2127	G
2	AA	2128	C
2	AA	2130	U
2	AA	2131	G
2	AA	2132	U
2	AA	2133	G
2	AA	2136	C
2	AA	2137	C
2	AA	2138	C
2	AA	2140	C
2	AA	2143	C
2	AA	2144	U
2	AA	2145	C
2	AA	2146	C
2	AA	2147	G
2	AA	2148	G
2	AA	2151	G
2	AA	2155	G
2	AA	2156	G
2	AA	2178	C
2	AA	2182	G
2	AA	2194	G
2	AA	2195	C
2	AA	2196	C
2	AA	2198	A
2	AA	2199	A
2	AA	2206	C
2	AA	2207	C
2	AA	2208	U
2	AA	2210	G
2	AA	2211	G
2	AA	2212	A
2	AA	2213	U
2	AA	2217	G
2	AA	2226	C
2	AA	2236	C
2	AA	2238	G
2	AA	2239	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	2249	U
2	AA	2250	G
2	AA	2251	G
2	AA	2258	C
2	AA	2265	U
2	AA	2266	A
2	AA	2267	A
2	AA	2268	A
2	AA	2269	A
2	AA	2270	G
2	AA	2271	G
2	AA	2276	G
2	AA	2278	A
2	AA	2281	C
2	AA	2283	C
2	AA	2284	C
2	AA	2286	A
2	AA	2287	A
2	AA	2288	A
2	AA	2289	G
2	AA	2293	C
2	AA	2296	U
2	AA	2305	A
2	AA	2306	C
2	AA	2307	G
2	AA	2308	G
2	AA	2309	A
2	AA	2310	A
2	AA	2311	A
2	AA	2312	U
2	AA	2318	G
2	AA	2319	G
2	AA	2320	A
2	AA	2321	G
2	AA	2322	A
2	AA	2334	G
2	AA	2335	A
2	AA	2336	A
2	AA	2337	G
2	AA	2345	G
2	AA	2346	A
2	AA	2347	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	2350	C
2	AA	2351	G
2	AA	2352	A
2	AA	2356	C
2	AA	2358	G
2	AA	2361	A
2	AA	2371	G
2	AA	2373	G
2	AA	2378	A
2	AA	2379	G
2	AA	2382	G
2	AA	2383	G
2	AA	2384	G
2	AA	2385	C
2	AA	2387	U
2	AA	2389	G
2	AA	2390	U
2	AA	2392	A
2	AA	2395	C
2	AA	2396	G
2	AA	2399	G
2	AA	2400	G
2	AA	2402	C
2	AA	2403	C
2	AA	2406	U
2	AA	2409	G
2	AA	2416	C
2	AA	2417	C
2	AA	2423	U
2	AA	2424	C
2	AA	2425	A
2	AA	2426	A
2	AA	2427	C
2	AA	2428	G
2	AA	2429	G
2	AA	2430	A
2	AA	2431	U
2	AA	2434	A
2	AA	2435	A
2	AA	2437	U
2	AA	2438	U
2	AA	2439	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	2440	C
2	AA	2441	C
2	AA	2448	A
2	AA	2449	U
2	AA	2458	G
2	AA	2460	U
2	AA	2465	C
2	AA	2469	A
2	AA	2470	G
2	AA	2472	G
2	AA	2476	A
2	AA	2479	G
2	AA	2480	C
2	AA	2481	G
2	AA	2482	G
2	AA	2490	G
2	AA	2491	U
2	AA	2493	U
2	AA	2494	G
2	AA	2498	C
2	AA	2499	C
2	AA	2502	G
2	AA	2503	A
2	AA	2504	U
2	AA	2505	G
2	AA	2506	U
2	AA	2508	G
2	AA	2513	G
2	AA	2514	U
2	AA	2515	C
2	AA	2518	A
2	AA	2519	U
2	AA	2520	C
2	AA	2521	C
2	AA	2526	G
2	AA	2529	G
2	AA	2531	A
2	AA	2532	G
2	AA	2542	A
2	AA	2543	G
2	AA	2549	G
2	AA	2553	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	2554	U
2	AA	2555	U
2	AA	2556	C
2	AA	2562	U
2	AA	2566	A
2	AA	2567	G
2	AA	2574	G
2	AA	2575	C
2	AA	2576	G
2	AA	2577	A
2	AA	2578	G
2	AA	2582	G
2	AA	2585	U
2	AA	2586	C
2	AA	2593	U
2	AA	2597	G
2	AA	2602	A
2	AA	2603	G
2	AA	2606	C
2	AA	2607	G
2	AA	2609	U
2	AA	2610	C
2	AA	2611	U
2	AA	2612	C
2	AA	2613	U
2	AA	2614	A
2	AA	2615	U
2	AA	2616	C
2	AA	2617	C
2	AA	2629	A
2	AA	2630	G
2	AA	2634	G
2	AA	2638	G
2	AA	2645	G
2	AA	2648	C
2	AA	2654	A
2	AA	2655	G
2	AA	2663	G
2	AA	2666	C
2	AA	2667	C
2	AA	2682	U
2	AA	2689	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	2690	C
2	AA	2691	C
2	AA	2698	U
2	AA	2701	C
2	AA	2702	U
2	AA	2703	C
2	AA	2706	G
2	AA	2707	G
2	AA	2708	G
2	AA	2712	U
2	AA	712(A)	A
2	AA	2713	A
2	AA	2714	G
2	AA	2717	G
2	AA	2719	G
2	AA	2725	A
2	AA	2727	G
2	AA	2732	G
2	AA	2733	A
2	AA	2742	C
2	AA	2748	A
2	AA	2749	A
2	AA	2750	A
2	AA	2751	G
2	AA	2752	C
2	AA	2753	A
2	AA	2756	U
2	AA	2757	A
2	AA	2758	A
2	AA	2759	G
2	AA	2765	A
2	AA	2766	G
2	AA	2769	C
2	AA	2776	A
2	AA	2777	G
2	AA	2778	A
2	AA	2779	U
2	AA	2780	G
2	AA	2781	A
2	AA	2782	G
2	AA	2787	C
2	AA	2789	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	2790	A
2	AA	2791	C
2	AA	2794	C
2	AA	2795	G
2	AA	2797	U
2	AA	2798	C
2	AA	2801	A
2	AA	2803	C
2	AA	2804	C
2	AA	2805	G
2	AA	2807	G
2	AA	2808	U
2	AA	2809	A
2	AA	2810	A
2	AA	2811	G
2	AA	2818	G
2	AA	2819	G
2	AA	2820	A
2	AA	2821	A
2	AA	2823	A
2	AA	2832	U
2	AA	2833	G
2	AA	2834	G
2	AA	2835	A
2	AA	2836	U
2	AA	2837	G
2	AA	2844	G
2	AA	2845	G
2	AA	2850	A
2	AA	2851	A
2	AA	2853	C
2	AA	2856	C
2	AA	2858	C
2	AA	2860	A
2	AA	2861	G
2	AA	2862	G
2	AA	2866	U
2	AA	2867	G
2	AA	2868	A
2	AA	2872	G
2	AA	2874	C
2	AA	2877	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	2878	U
2	AA	2879	C
2	AA	2880	C
2	AA	2882	A
2	AA	2883	A
2	AA	2893	G
2	AA	2894	G
2	AA	2895	U
2	AA	2900	A
34	BA	6	G
34	BA	8	A
34	BA	9	G
34	BA	13	U
34	BA	14	U
34	BA	31	G
34	BA	32	A
34	BA	39	G
34	BA	45	U
34	BA	48	C
34	BA	49	U
34	BA	50	A
34	BA	51	A
34	BA	52	G
34	BA	61	G
34	BA	62	U
34	BA	65	U
34	BA	66	G
34	BA	81	U
34	BA	90	U
34	BA	101	A
34	BA	106	C
34	BA	110	C
34	BA	116	A
34	BA	120	A
34	BA	121	C
34	BA	122	G
34	BA	123	C
34	BA	124	G
34	BA	125	U
34	BA	130	A
34	BA	131	C
34	BA	132	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	153	C
34	BA	163	C
34	BA	182	U
34	BA	190(D)	U
34	BA	190(E)	U
34	BA	190(F)	G
34	BA	190(G)	G
34	BA	193	C
34	BA	195	A
34	BA	197	A
34	BA	198	G
34	BA	203	U
34	BA	204	U
34	BA	216	G
34	BA	225	C
34	BA	236	G
34	BA	244	U
34	BA	245	C
34	BA	247	G
34	BA	251	G
34	BA	252	U
34	BA	253	U
34	BA	260	G
34	BA	261	U
34	BA	264	U
34	BA	265	G
34	BA	266	G
34	BA	267	C
34	BA	275	G
34	BA	279	A
34	BA	280	C
34	BA	281	G
34	BA	282	A
34	BA	283	C
34	BA	289	G
34	BA	293	G
34	BA	296	U
34	BA	305	G
34	BA	306	G
34	BA	308	C
34	BA	309	G
34	BA	315	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	316	G
34	BA	317	G
34	BA	321	A
34	BA	323	U
34	BA	325	A
34	BA	328	C
34	BA	329	A
34	BA	330	C
34	BA	332	G
34	BA	336	C
34	BA	345	C
34	BA	346	G
34	BA	348	G
34	BA	351	G
34	BA	352	C
34	BA	353	A
34	BA	355	C
34	BA	367	U
34	BA	368	U
34	BA	373	A
34	BA	379	C
34	BA	386	C
34	BA	387	U
34	BA	388	G
34	BA	389	A
34	BA	390	C
34	BA	391	G
34	BA	397	A
34	BA	398	C
34	BA	405	U
34	BA	410	G
34	BA	412	A
34	BA	413	G
34	BA	422	C
34	BA	423	G
34	BA	427	U
34	BA	428	G
34	BA	429	U
34	BA	430	A
34	BA	439	A
34	BA	440	A
34	BA	448	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	451	A
34	BA	452	A
34	BA	453	A
34	BA	455	C
34	BA	460	A
34	BA	461	C
34	BA	462	G
34	BA	474	G
34	BA	482	A
34	BA	484	G
34	BA	485	G
34	BA	486	U
34	BA	487	A
34	BA	496	A
34	BA	497	A
34	BA	498	U
34	BA	500	G
34	BA	505	G
34	BA	508	C
34	BA	509	A
34	BA	510	A
34	BA	511	C
34	BA	517	G
34	BA	518	C
34	BA	519	C
34	BA	520	A
34	BA	521	G
34	BA	523	A
34	BA	527	G
34	BA	530	G
34	BA	531	U
34	BA	532	A
34	BA	533	A
34	BA	535	A
34	BA	536	C
34	BA	547	A
34	BA	548	G
34	BA	553	A
34	BA	555	C
34	BA	559	A
34	BA	560	U
34	BA	561	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	563	A
34	BA	566	G
34	BA	567	G
34	BA	570	G
34	BA	571	U
34	BA	572	A
34	BA	573	A
34	BA	575	G
34	BA	576	G
34	BA	579	G
34	BA	582	U
34	BA	583	A
34	BA	588	G
34	BA	589	C
34	BA	596	C
34	BA	598	U
34	BA	607	A
34	BA	609	A
34	BA	610	G
34	BA	623	C
34	BA	629	G
34	BA	642	A
34	BA	652	U
34	BA	653	A
34	BA	665	A
34	BA	671	G
34	BA	672	U
34	BA	673	G
34	BA	674	G
34	BA	678	U
34	BA	687	A
34	BA	688	G
34	BA	693	G
34	BA	694	A
34	BA	698	G
34	BA	702	A
34	BA	703	G
34	BA	704	A
34	BA	714	G
34	BA	718	G
34	BA	719	C
34	BA	721	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	722	A
34	BA	724	G
34	BA	730	G
34	BA	731	G
34	BA	745	C
34	BA	749	C
34	BA	752	G
34	BA	753	A
34	BA	754	C
34	BA	759	A
34	BA	760	G
34	BA	761	G
34	BA	766	A
34	BA	767	A
34	BA	773	G
34	BA	775	G
34	BA	776	G
34	BA	777	A
34	BA	780	A
34	BA	781	A
34	BA	782	A
34	BA	785	G
34	BA	791	G
34	BA	793	U
34	BA	794	A
34	BA	805	C
34	BA	812	C
34	BA	813	U
34	BA	814	A
34	BA	815	A
34	BA	816	A
34	BA	817	C
34	BA	818	G
34	BA	819	A
34	BA	820	U
34	BA	821	G
34	BA	828	A
34	BA	839	U
34	BA	840	C
34	BA	841	U
34	BA	848	C
34	BA	855	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	865	A
34	BA	866	C
34	BA	870	U
34	BA	871	U
34	BA	872	A
34	BA	873	A
34	BA	874	G
34	BA	884	U
34	BA	885	G
34	BA	889	A
34	BA	890	G
34	BA	891	U
34	BA	901	A
34	BA	902	G
34	BA	906	G
34	BA	910	C
34	BA	911	U
34	BA	913	A
34	BA	914	A
34	BA	927	G
34	BA	934	C
34	BA	935	A
34	BA	942	G
34	BA	945	G
34	BA	950	U
34	BA	956	U
34	BA	958	A
34	BA	960	U
34	BA	961	U
34	BA	966	G
34	BA	968	A
34	BA	969	A
34	BA	972	C
34	BA	974	A
34	BA	975	A
34	BA	976	G
34	BA	977	A
34	BA	982	U
34	BA	983	A
34	BA	991	U
34	BA	992	U
34	BA	993	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	994	A
34	BA	995	C
34	BA	997	U
34	BA	998	G
34	BA	1004	A
34	BA	1005	A
34	BA	1007	C
34	BA	1013	G
34	BA	1023	G
34	BA	1025	U
34	BA	1026	G
34	BA	1034	G
34	BA	1042	G
34	BA	1050	G
34	BA	1053	G
34	BA	1054	C
34	BA	1055	A
34	BA	1056	U
34	BA	1064	G
34	BA	1065	U
34	BA	1066	C
34	BA	1068	G
34	BA	1079	G
34	BA	1084	G
34	BA	1085	U
34	BA	1086	U
34	BA	1096	C
34	BA	1097	C
34	BA	1100	C
34	BA	1101	A
34	BA	1102	A
34	BA	1107	C
34	BA	1117	G
34	BA	1118	C
34	BA	1122	U
34	BA	1126	U
34	BA	1127	G
34	BA	1129	C
34	BA	1130	A
34	BA	1131	G
34	BA	1137	C
34	BA	1138	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	1139	G
34	BA	1140	C
34	BA	1145	C
34	BA	1146	A
34	BA	1148	U
34	BA	1151	A
34	BA	1152	A
34	BA	1157	A
34	BA	1158	C
34	BA	1159	U
34	BA	1160	G
34	BA	1161	C
34	BA	1177	G
34	BA	1183	A
34	BA	1184	G
34	BA	1185	G
34	BA	1186	G
34	BA	1188	A
34	BA	1190	G
34	BA	1191	A
34	BA	1196	U
34	BA	1197	G
34	BA	1201	A
34	BA	1202	G
34	BA	1212	U
34	BA	1213	A
34	BA	1214	C
34	BA	1215	G
34	BA	1225	A
34	BA	1226	C
34	BA	1227	A
34	BA	1229	A
34	BA	1231	G
34	BA	1240	U
34	BA	1241	G
34	BA	1249	C
34	BA	1250	A
34	BA	1251	A
34	BA	1256	A
34	BA	1257	U
34	BA	1258	G
34	BA	1260	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	1269	A
34	BA	1279	A
34	BA	1280	A
34	BA	1281	U
34	BA	1282	C
34	BA	1285	A
34	BA	1286	A
34	BA	1287	A
34	BA	1289	A
34	BA	1290	G
34	BA	1292	U
34	BA	1297	C
34	BA	1298	C
34	BA	1299	A
34	BA	1301	U
34	BA	1302	U
34	BA	1303	C
34	BA	1305	G
34	BA	1316	G
34	BA	1317	C
34	BA	1320	C
34	BA	1322	C
34	BA	1323	G
34	BA	1331	G
34	BA	1332	A
34	BA	1333	A
34	BA	1337	G
34	BA	1345	U
34	BA	1346	A
34	BA	1347	G
34	BA	1348	U
34	BA	1353	G
34	BA	1356	G
34	BA	1360	A
34	BA	1362	C
34	BA	1363	A
34	BA	1364	U
34	BA	1365	G
34	BA	1371	G
34	BA	1379	G
34	BA	1381	U
34	BA	1382	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	1394	A
34	BA	1395	C
34	BA	1397	C
34	BA	1398	A
34	BA	1399	C
34	BA	1400	C
34	BA	1401	G
34	BA	1437	C
34	BA	1440	C
34	BA	1442	G
34	BA	1443	G
34	BA	1446	A
34	BA	1447	G
34	BA	1449	C
34	BA	1452	C
34	BA	1453	G
34	BA	1454	G
34	BA	1467	G
34	BA	1481	U
34	BA	1482	G
34	BA	1490	C
34	BA	1491	G
34	BA	1493	A
34	BA	1497	G
34	BA	1498	U
34	BA	1499	A
34	BA	1502	A
34	BA	1503	A
34	BA	1504	G
34	BA	1505	G
34	BA	1506	U
34	BA	1507	A
34	BA	1516	G
34	BA	1517	G
34	BA	1518	A
34	BA	1520	G
34	BA	1529	G
34	BA	1530	G
34	BA	1531	A
34	BA	1533	C
34	BA	1534	A
34	BA	1535	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	1540	U
34	BA	1542	U
35	BB	2	C
35	BB	8	U
35	BB	10	G
35	BB	16	U
35	BB	17	U
35	BB	18	G
35	BB	19	G
35	BB	20	G
35	BB	21	A
35	BB	31	A
35	BB	32	C
35	BB	34	G
35	BB	35	A
35	BB	37	G
35	BB	41	U
35	BB	42	G
35	BB	43	G
35	BB	44	A
35	BB	45	G
35	BB	46	G
35	BB	47	U
35	BB	48	C
35	BB	49	C
35	BB	50	U
35	BB	53	G
35	BB	54	U
35	BB	58	A
35	BB	59	U
35	BB	60	C
35	BB	61	C
35	BB	64	A
35	BB	69	U
35	BB	74	C
35	BB	75	C
35	BB	76	A
35	BC	8	U
35	BC	10	G
35	BC	15	G
35	BC	16	U
35	BC	17	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
35	BC	18	G
35	BC	19	G
35	BC	20	G
35	BC	21	A
35	BC	23	A
35	BC	26	G
35	BC	31	A
35	BC	35	A
35	BC	36	A
35	BC	37	G
35	BC	41	U
35	BC	43	G
35	BC	46	G
35	BC	47	U
35	BC	48	C
35	BC	49	C
35	BC	50	U
35	BC	58	A
35	BC	59	U
35	BC	60	C
35	BC	61	C
35	BC	63	C
35	BC	64	A
35	BC	74	C
35	BC	75	C
35	BC	76	A
36	B1	7	A
36	B1	8	A
36	B1	14	U
36	B1	17	G
36	B1	22	C
36	B1	26	C
36	B1	37	C
36	B1	39	A
36	B1	47	U
36	B1	52	A
36	B1	55	U
36	B1	56	A
36	B1	57	A
36	B1	58	A
36	B1	59	A
36	B1	60	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	B1	61	U
36	B1	62	G
36	B1	63	C
36	B1	64	C
36	B1	66	G
36	B1	69	A
36	B1	70	U
36	B1	71	A

All (485) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AB	40	U
1	AB	56	G
1	AB	61	G
1	AB	66	A
1	AB	98	G
2	AA	13	A
2	AA	33	U
2	AA	51	G
2	AA	71	A
2	AA	72	U
2	AA	74	A
2	AA	83	G
2	AA	90	U
2	AA	108	U
2	AA	112	U
2	AA	119	A
2	AA	125	G
2	AA	128	C
2	AA	139	G
2	AA	142	G
2	AA	155	C
2	AA	177	G
2	AA	181	A
2	AA	196	A
2	AA	199	A
2	AA	204	A
2	AA	205	G
2	AA	215	G
2	AA	221	A
2	AA	242	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	251	A
2	AA	265	A
2	AA	270(L)	U
2	AA	270(M)	U
2	AA	270(Y)	G
2	AA	270(Z)	U
2	AA	271(B)	G
2	AA	271(C)	U
2	AA	301	G
2	AA	323	G
2	AA	329	G
2	AA	331	A
2	AA	332	A
2	AA	346	A
2	AA	360	G
2	AA	370	G
2	AA	371	A
2	AA	386	G
2	AA	387	U
2	AA	403	U
2	AA	442	G
2	AA	446	G
2	AA	455	C
2	AA	492	A
2	AA	506	G
2	AA	508	G
2	AA	526	A
2	AA	529	A
2	AA	530	G
2	AA	532	A
2	AA	543	C
2	AA	548	A
2	AA	554	U
2	AA	559	G
2	AA	574	C
2	AA	587	C
2	AA	616	A
2	AA	620	G
2	AA	670	A
2	AA	685	A
2	AA	686	G
2	AA	687	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	704	G
2	AA	726	G
2	AA	728	G
2	AA	740	U
2	AA	746	A
2	AA	747	U
2	AA	752	A
2	AA	762	U
2	AA	774	A
2	AA	776	G
2	AA	782	A
2	AA	783	A
2	AA	787	U
2	AA	788	A
2	AA	789	A
2	AA	790	C
2	AA	792	G
2	AA	800	A
2	AA	801	G
2	AA	811	U
2	AA	830	G
2	AA	846	C
2	AA	886	C
2	AA	917	A
2	AA	918	A
2	AA	930	U
2	AA	931	G
2	AA	944	G
2	AA	945	A
2	AA	957	A
2	AA	958	U
2	AA	960	A
2	AA	961	C
2	AA	974	G
2	AA	974(A)	C
2	AA	983	A
2	AA	989	G
2	AA	1008	C
2	AA	1011	G
2	AA	1022	G
2	AA	1029	A
2	AA	1069	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	1083	U
2	AA	1085	A
2	AA	1100	C
2	AA	1110	G
2	AA	1111	A
2	AA	1130	U
2	AA	1131	G
2	AA	1140	C
2	AA	1141	U
2	AA	1173	G
2	AA	1178	C
2	AA	1179	C
2	AA	1180	C
2	AA	1181	C
2	AA	1183	G
2	AA	1206	G
2	AA	1210	A
2	AA	1211	U
2	AA	1212	G
2	AA	1220	A
2	AA	1237	A
2	AA	1241	A
2	AA	1247	A
2	AA	1248	G
2	AA	1250	G
2	AA	1265	A
2	AA	1272	A
2	AA	1288	U
2	AA	1300	U
2	AA	1301	A
2	AA	1302	A
2	AA	1312	U
2	AA	1324	G
2	AA	1341	U
2	AA	1342	A
2	AA	1364	G
2	AA	1378	A
2	AA	1397	U
2	AA	1406	U
2	AA	1427	A
2	AA	1428	C
2	AA	1437	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	1444	G
2	AA	444(A)	A
2	AA	1477	A
2	AA	1489	U
2	AA	1491	G
2	AA	1496	A
2	AA	1498	C
2	AA	1509	C
2	AA	1515	C
2	AA	1525	G
2	AA	1536	A
2	AA	1545	A
2	AA	1552	G
2	AA	1566	A
2	AA	1567	A
2	AA	1568	G
2	AA	1572	A
2	AA	1602	U
2	AA	1610	A
2	AA	1616	A
2	AA	1618	A
2	AA	1626	G
2	AA	1634	A
2	AA	1647	G
2	AA	1667	G
2	AA	1668	A
2	AA	1672	C
2	AA	1673	U
2	AA	1674	G
2	AA	1676	A
2	AA	1681	G
2	AA	1693	U
2	AA	1694	C
2	AA	1698	A
2	AA	1699	G
2	AA	1742	C
2	AA	1758	G
2	AA	1780	A
2	AA	1784	A
2	AA	1788	C
2	AA	1799	G
2	AA	1800	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	1809	A
2	AA	1815	A
2	AA	1819	A
2	AA	1820	U
2	AA	1828	G
2	AA	1900	A
2	AA	1914	C
2	AA	1916	A
2	AA	1929	G
2	AA	1930	G
2	AA	1936	A
2	AA	1937	A
2	AA	1938	A
2	AA	1943	U
2	AA	1944	U
2	AA	1954	G
2	AA	1955	U
2	AA	1964	G
2	AA	1970	A
2	AA	1977	A
2	AA	1980	G
2	AA	1992	G
2	AA	1996	C
2	AA	2019	A
2	AA	2022	U
2	AA	2032	G
2	AA	2033	A
2	AA	2035	G
2	AA	2045	C
2	AA	2047	U
2	AA	2049	G
2	AA	2051	A
2	AA	2059	A
2	AA	2067	G
2	AA	2076	U
2	AA	2110	G
2	AA	2113	U
2	AA	2119	A
2	AA	2125	G
2	AA	2210	G
2	AA	2225	A
2	AA	2249	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	2268	A
2	AA	2275	C
2	AA	2282	G
2	AA	2287	A
2	AA	2293	C
2	AA	2318	G
2	AA	2320	A
2	AA	2324	C
2	AA	2333	A
2	AA	2344	U
2	AA	2346	A
2	AA	2384	G
2	AA	2391	G
2	AA	2398	U
2	AA	2423	U
2	AA	2425	A
2	AA	2434	A
2	AA	2439	A
2	AA	2447	G
2	AA	2448	A
2	AA	2449	U
2	AA	2451	A
2	AA	2481	G
2	AA	2490	G
2	AA	2493	U
2	AA	2497	A
2	AA	2501	C
2	AA	2502	G
2	AA	2503	A
2	AA	2517	C
2	AA	2519	U
2	AA	2542	A
2	AA	2553	G
2	AA	2576	G
2	AA	2602	A
2	AA	2606	C
2	AA	2609	U
2	AA	2610	C
2	AA	2612	C
2	AA	2613	U
2	AA	2654	A
2	AA	2662	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AA	2689	U
2	AA	2712	U
2	AA	2726	U
2	AA	2756	U
2	AA	2781	A
2	AA	2790	A
2	AA	2848	G
2	AA	2849	U
2	AA	2866	U
2	AA	2867	G
2	AA	2873	A
2	AA	2879	C
2	AA	2882	A
34	BA	5	U
34	BA	8	A
34	BA	13	U
34	BA	30	U
34	BA	47	C
34	BA	48	C
34	BA	50	A
34	BA	51	A
34	BA	60	A
34	BA	99	C
34	BA	109	A
34	BA	115	G
34	BA	119	A
34	BA	121	C
34	BA	129(A)	G
34	BA	181	G
34	BA	190(F)	G
34	BA	197	A
34	BA	202	U
34	BA	203	U
34	BA	204	U
34	BA	243	A
34	BA	244	U
34	BA	246	A
34	BA	250	A
34	BA	251	G
34	BA	266	G
34	BA	274	A
34	BA	279	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	280	C
34	BA	281	G
34	BA	305	G
34	BA	327	A
34	BA	328	C
34	BA	329	A
34	BA	344	A
34	BA	345	C
34	BA	351	G
34	BA	366	C
34	BA	367	U
34	BA	372	C
34	BA	388	G
34	BA	422	C
34	BA	428	G
34	BA	429	U
34	BA	438	G
34	BA	447	G
34	BA	451	A
34	BA	481	G
34	BA	483	C
34	BA	484	G
34	BA	496	A
34	BA	497	A
34	BA	499	A
34	BA	508	C
34	BA	509	A
34	BA	511	C
34	BA	517	G
34	BA	518	C
34	BA	522	C
34	BA	531	U
34	BA	535	A
34	BA	547	A
34	BA	559	A
34	BA	560	U
34	BA	562	C
34	BA	566	G
34	BA	575	G
34	BA	576	G
34	BA	652	U
34	BA	653	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	687	A
34	BA	701	C
34	BA	702	A
34	BA	703	G
34	BA	717	C
34	BA	721	G
34	BA	748	C
34	BA	752	G
34	BA	753	A
34	BA	758	G
34	BA	772	U
34	BA	781	A
34	BA	792	A
34	BA	793	U
34	BA	812	C
34	BA	816	A
34	BA	817	C
34	BA	818	G
34	BA	819	A
34	BA	870	U
34	BA	871	U
34	BA	872	A
34	BA	873	A
34	BA	889	A
34	BA	913	A
34	BA	934	C
34	BA	945	G
34	BA	960	U
34	BA	965	A
34	BA	968	A
34	BA	974	A
34	BA	975	A
34	BA	982	U
34	BA	992	U
34	BA	993	G
34	BA	1004	A
34	BA	1049	U
34	BA	1065	U
34	BA	1067	A
34	BA	1084	G
34	BA	1085	U
34	BA	1100	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	1101	A
34	BA	1124	G
34	BA	1125	U
34	BA	1139	G
34	BA	1145	C
34	BA	1157	A
34	BA	1159	U
34	BA	1182	G
34	BA	1190	G
34	BA	1196	U
34	BA	1201	A
34	BA	1212	U
34	BA	1214	C
34	BA	1224	G
34	BA	1226	C
34	BA	1240	U
34	BA	1257	U
34	BA	1279	A
34	BA	1280	A
34	BA	1281	U
34	BA	1285	A
34	BA	1297	C
34	BA	1298	C
34	BA	1300	G
34	BA	1302	U
34	BA	1322	C
34	BA	1331	G
34	BA	1345	U
34	BA	1346	A
34	BA	1347	G
34	BA	1362	C
34	BA	1363	A
34	BA	1380	U
34	BA	1394	A
34	BA	1397	C
34	BA	1399	C
34	BA	1400	C
34	BA	1446	A
34	BA	1452	C
34	BA	1490	C
34	BA	1498	U
34	BA	1502	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BA	1503	A
34	BA	1504	G
34	BA	1505	G
34	BA	1506	U
34	BA	1528	U
34	BA	1529	G
35	BB	1	G
35	BB	7	U
35	BB	9	A
35	BB	16	U
35	BB	18	G
35	BB	19	G
35	BB	20	G
35	BB	34	G
35	BB	36	A
35	BB	40	C
35	BB	42	G
35	BB	44	A
35	BB	49	C
35	BB	58	A
35	BB	59	U
35	BB	60	C
35	BC	7	U
35	BC	9	A
35	BC	16	U
35	BC	19	G
35	BC	35	A
35	BC	36	A
35	BC	58	A
35	BC	60	C
35	BC	73	A
36	B1	59	A
36	B1	60	A
36	B1	62	G
36	B1	70	U

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 [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

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	AB	123/123 (100%)	-0.33	0	100	100	308, 357, 402, 412	0
2	AA	2872/2915 (98%)	0.35	220 (7%)	19	24	232, 307, 404, 474	0
3	AC	221/228 (96%)	1.10	49 (22%)	2	8	384, 428, 464, 467	0
4	AD	173/178 (97%)	2.96	83 (47%)	0	3	243, 279, 292, 298	0
5	AE	191/338 (56%)	1.77	67 (35%)	1	5	258, 311, 397, 403	0
6	AF	189/246 (76%)	2.02	82 (43%)	0	3	233, 399, 427, 434	0
7	AG	122/176 (69%)	1.80	46 (37%)	1	4	350, 366, 443, 447	0
8	AH	164/177 (92%)	0.71	19 (11%)	9	16	320, 351, 366, 370	0
9	AI	128/128 (100%)	0.38	6 (4%)	36	36	580, 591, 602, 603	0
9	AJ	128/128 (100%)	0.76	19 (14%)	5	13	569, 582, 594, 596	0
10	AK	148/149 (99%)	1.16	34 (22%)	2	7	305, 329, 353, 361	0
11	AL	133/141 (94%)	0.58	19 (14%)	6	13	455, 504, 541, 543	0
12	AM	117/145 (80%)	2.36	52 (44%)	0	3	286, 310, 364, 368	0
13	AN	122/122 (100%)	1.54	38 (31%)	1	5	245, 262, 277, 293	0
14	AO	84/164 (51%)	1.07	19 (22%)	2	8	330, 452, 471, 473	0
15	AP	138/138 (100%)	2.33	56 (40%)	0	3	283, 324, 364, 379	0
16	AQ	113/186 (60%)	-0.16	0	100	100	317, 367, 386, 390	0
17	AR	52/66 (78%)	2.67	27 (51%)	0	3	251, 267, 285, 288	0
18	AS	108/113 (95%)	1.39	35 (32%)	1	5	280, 311, 324, 332	0
19	AT	76/84 (90%)	0.30	7 (9%)	14	20	329, 344, 360, 363	0
20	AU	110/119 (92%)	1.20	17 (15%)	5	12	647, 661, 722, 724	0
21	AV	177/253 (69%)	0.85	30 (16%)	4	11	295, 365, 416, 424	0
22	AW	64/70 (91%)	0.39	7 (10%)	10	17	346, 364, 373, 375	0
23	AX	60/60 (100%)	0.59	7 (11%)	9	16	291, 306, 315, 316	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
24	A0	105/118 (88%)	0.28	11 (10%) 11 18	263, 281, 304, 308	0
25	A1	117/118 (99%)	1.03	22 (18%) 3 10	267, 297, 311, 317	0
26	A2	100/100 (100%)	1.58	30 (30%) 1 6	416, 430, 462, 470	0
27	A3	86/91 (94%)	1.72	24 (27%) 1 6	359, 389, 475, 486	0
28	A4	73/73 (100%)	3.02	40 (54%) 0 3	319, 354, 373, 378	0
29	A5	58/60 (96%)	1.00	9 (15%) 5 12	259, 314, 361, 373	0
30	A6	53/82 (64%)	2.50	26 (49%) 0 3	287, 316, 332, 340	0
31	A7	46/47 (97%)	2.15	18 (39%) 1 4	316, 339, 352, 357	0
32	A8	63/64 (98%)	1.25	16 (25%) 1 7	262, 282, 294, 306	0
33	A9	35/36 (97%)	0.42	4 (11%) 10 17	281, 303, 316, 319	0
34	BA	1515/1522 (99%)	-0.10	33 (2%) 62 52	251, 312, 419, 609	0
35	BB	76/76 (100%)	3.05	50 (65%) 0 2	631, 651, 667, 669	0
35	BC	76/76 (100%)	0.50	4 (5%) 32 33	273, 310, 328, 337	0
36	B1	66/78 (84%)	2.76	39 (59%) 0 2	337, 829, 918, 922	0
37	BE	234/256 (91%)	0.81	31 (13%) 7 14	293, 321, 364, 385	0
38	BF	206/239 (86%)	1.24	53 (25%) 1 7	301, 349, 377, 382	0
39	BG	208/209 (99%)	1.34	51 (24%) 2 7	276, 299, 318, 329	0
40	BH	150/162 (92%)	1.12	36 (24%) 2 7	277, 295, 315, 324	0
41	BI	101/101 (100%)	3.11	66 (65%) 0 2	299, 318, 330, 336	0
42	BJ	155/156 (99%)	1.35	36 (23%) 2 7	326, 357, 370, 373	0
43	BK	138/138 (100%)	0.60	23 (16%) 4 11	266, 284, 297, 306	0
44	BL	127/128 (99%)	-0.08	2 (1%) 70 58	385, 487, 499, 500	0
45	BM	98/105 (93%)	-0.15	4 (4%) 41 39	337, 394, 423, 424	0
46	BN	119/129 (92%)	1.51	40 (33%) 1 5	288, 307, 330, 334	0
47	BO	124/135 (91%)	1.85	46 (37%) 1 4	265, 282, 319, 328	0
48	BP	125/126 (99%)	0.91	21 (16%) 4 11	350, 370, 412, 415	0
49	BQ	60/61 (98%)	0.17	5 (8%) 17 23	322, 352, 360, 365	0
50	BR	88/89 (98%)	0.92	19 (21%) 2 8	277, 288, 315, 318	0
51	BS	83/88 (94%)	0.60	9 (10%) 11 17	271, 284, 303, 316	0
52	BT	104/105 (99%)	0.97	24 (23%) 2 7	249, 268, 323, 344	0
53	BU	73/88 (82%)	1.89	26 (35%) 1 4	259, 296, 323, 348	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
54	BV	80/93 (86%)	1.12	14 (17%) 4 10	353, 369, 395, 399	0
55	BW	99/106 (93%)	0.70	14 (14%) 6 13	264, 281, 292, 300	0
56	BX	24/27 (88%)	-0.65	0 100 100	475, 489, 493, 496	0
All	All	10678/11529 (92%)	0.80	1785 (16%) 4 11	232, 322, 533, 922	0

All (1785) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
37	BE	237	ALA	25.2
37	BE	231	GLU	22.0
12	AM	72	PRO	19.7
4	AD	205	VAL	18.0
15	AP	29	ALA	18.0
4	AD	237	GLY	16.3
4	AD	203	PRO	14.5
15	AP	99	ASP	13.6
4	AD	178	GLY	13.5
28	A4	73	LYS	13.5
4	AD	179	GLU	13.4
3	AC	202	GLU	13.1
42	BJ	79	ARG	12.9
12	AM	133	GLY	12.6
4	AD	82	TYR	12.4
28	A4	22	MET	12.1
2	AA	1532	C	11.9
27	A3	7	VAL	11.8
41	BI	50	TYR	11.7
42	BJ	84	ASN	11.6
4	AD	197	GLY	11.6
4	AD	202	LYS	11.6
48	BP	124	PRO	11.6
27	A3	87	GLU	11.6
37	BE	230	VAL	11.5
20	AU	13	ARG	11.4
6	AF	50	GLU	10.8
4	AD	159	THR	10.7
42	BJ	82	GLY	10.7
35	BB	4	G	10.6
42	BJ	144	MET	10.6
15	AP	106	GLY	10.6
42	BJ	148	ASN	10.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
12	AM	57	TYR	10.3
28	A4	47	GLU	10.3
15	AP	108	SER	10.3
47	BO	112	ASP	10.2
39	BG	169	LYS	10.2
2	AA	1531	C	10.1
41	BI	52	ILE	10.1
28	A4	72	LYS	10.0
28	A4	50	LEU	10.0
27	A3	6	GLY	9.9
41	BI	8	ILE	9.9
36	B1	58	A	9.9
20	AU	9	LYS	9.9
47	BO	111	LYS	9.8
14	AO	79	ASP	9.8
4	AD	168	GLY	9.7
4	AD	236	PHE	9.6
20	AU	10	SER	9.6
17	AR	54	THR	9.5
4	AD	102	TYR	9.5
38	BF	150	LYS	9.4
15	AP	96	GLN	9.4
38	BF	201	TYR	9.3
15	AP	65	ARG	9.2
41	BI	9	VAL	9.2
48	BP	123	ALA	9.2
41	BI	10	LEU	9.1
47	BO	128	ALA	9.1
55	BW	45	GLN	9.1
7	AG	35	ALA	9.1
15	AP	109	VAL	9.0
5	AE	73	ILE	8.8
35	BB	5	A	8.8
30	A6	25	THR	8.7
15	AP	97	ASP	8.7
53	BU	76	LEU	8.7
26	A2	81	ARG	8.7
26	A2	76	SER	8.6
4	AD	214	MET	8.6
17	AR	8	TYR	8.6
5	AE	171	SER	8.6
5	AE	294	THR	8.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
4	AD	223	ASN	8.6
36	B1	16	U	8.5
15	AP	105	PHE	8.4
26	A2	83	ARG	8.4
42	BJ	81	GLY	8.3
30	A6	4	ASP	8.3
48	BP	3	ARG	8.3
31	A7	36	ALA	8.3
4	AD	145	LEU	8.2
40	BH	154	GLY	8.2
15	AP	100	GLY	8.2
53	BU	78	LEU	8.1
30	A6	5	GLY	8.1
3	AC	52	ARG	8.1
35	BB	68	U	8.1
6	AF	120	ASP	8.0
41	BI	101	ALA	7.9
4	AD	201	ASP	7.9
20	AU	12	ARG	7.9
12	AM	110	ASP	7.9
2	AA	545	G	7.8
12	AM	71	TYR	7.8
35	BB	70	C	7.8
4	AD	81	GLU	7.7
40	BH	110	LEU	7.7
20	AU	1	SER	7.7
15	AP	107	LYS	7.6
28	A4	67	TYR	7.5
6	AF	51	TYR	7.5
35	BB	1	G	7.5
35	BB	3	G	7.5
43	BK	80	ILE	7.5
2	AA	1533	C	7.5
28	A4	70	GLY	7.5
41	BI	48	LEU	7.4
53	BU	87	ARG	7.4
6	AF	95	GLU	7.4
17	AR	16	GLY	7.4
27	A3	82	GLU	7.4
12	AM	78	ILE	7.4
2	AA	2557	G	7.4
30	A6	2	ALA	7.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
35	BB	71	G	7.3
2	AA	686	G	7.3
35	BB	69	U	7.3
2	AA	1903	G	7.2
7	AG	153	THR	7.2
39	BG	195	ALA	7.2
35	BB	73	A	7.2
41	BI	87	ARG	7.1
48	BP	122	LYS	7.0
12	AM	58	GLU	7.0
5	AE	78	MET	7.0
15	AP	30	GLN	7.0
5	AE	38	VAL	7.0
10	AK	8	ASP	7.0
12	AM	11	ILE	7.0
15	AP	95	GLU	7.0
46	BN	13	GLN	6.9
37	BE	232	PRO	6.9
36	B1	6	U	6.9
24	A0	97	VAL	6.9
4	AD	181	ARG	6.9
30	A6	52	GLU	6.9
2	AA	2112	G	6.9
27	A3	8	GLY	6.9
7	AG	29	HIS	6.9
7	AG	23	VAL	6.8
15	AP	116	HIS	6.8
5	AE	218	GLY	6.8
5	AE	295	LEU	6.8
36	B1	7	A	6.8
42	BJ	86	GLN	6.8
13	AN	50	GLY	6.7
6	AF	81	PRO	6.7
4	AD	80	ILE	6.7
12	AM	32	ASP	6.7
41	BI	49	ALA	6.6
25	A1	20	ARG	6.6
3	AC	54	SER	6.6
14	AO	78	ALA	6.6
25	A1	67	ALA	6.6
28	A4	45	GLY	6.6
32	A8	9	MET	6.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
55	BW	95	ALA	6.5
10	AK	93	ILE	6.5
4	AD	227	VAL	6.5
10	AK	72	LEU	6.5
39	BG	170	VAL	6.5
35	BB	67	A	6.4
12	AM	134	GLU	6.4
32	A8	55	TRP	6.4
4	AD	235	PRO	6.4
48	BP	114	ARG	6.4
4	AD	198	GLY	6.4
12	AM	59	LYS	6.4
3	AC	118	ASP	6.4
26	A2	75	LYS	6.3
39	BG	86	LYS	6.3
5	AE	44	TYR	6.3
41	BI	60	PHE	6.3
47	BO	38	THR	6.3
42	BJ	77	SER	6.3
7	AG	61	PHE	6.3
3	AC	67	GLY	6.2
48	BP	7	VAL	6.2
12	AM	62	ASP	6.2
4	AD	206	LYS	6.2
30	A6	6	PRO	6.2
46	BN	12	ARG	6.2
55	BW	94	ALA	6.2
35	BB	72	C	6.2
6	AF	82	GLN	6.2
28	A4	49	PHE	6.1
5	AE	250	VAL	6.1
7	AG	130	VAL	6.1
36	B1	48	A	6.1
3	AC	53	ARG	6.1
41	BI	43	LEU	6.1
2	AA	685	A	6.1
17	AR	41	ASP	6.1
4	AD	233	ASP	6.1
31	A7	46	ASP	6.0
7	AG	40	ILE	6.0
2	AA	141	A	6.0
31	A7	45	SER	6.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
39	BG	168	ARG	6.0
5	AE	105	HIS	5.9
13	AN	109	LYS	5.9
53	BU	16	PRO	5.9
18	AS	9	TYR	5.9
7	AG	128	LEU	5.9
21	AV	101	THR	5.9
38	BF	46	GLU	5.9
15	AP	27	GLY	5.9
46	BN	49	GLY	5.9
12	AM	8	ALA	5.9
28	A4	1	MET	5.8
6	AF	234	VAL	5.8
39	BG	197	PRO	5.8
43	BK	105	ARG	5.8
11	AL	140	VAL	5.8
38	BF	48	TYR	5.8
13	AN	58	VAL	5.8
42	BJ	80	VAL	5.8
28	A4	4	ASP	5.8
25	A1	47	TYR	5.8
2	AA	1938	A	5.8
5	AE	238	LEU	5.7
7	AG	92	GLU	5.7
41	BI	42	GLU	5.7
12	AM	60	ARG	5.7
2	AA	774	A	5.7
55	BW	42	GLN	5.7
39	BG	87	GLY	5.7
53	BU	80	PRO	5.7
10	AK	126	TYR	5.7
5	AE	247	ARG	5.7
24	A0	17	ARG	5.7
4	AD	107	LYS	5.6
31	A7	26	SER	5.6
55	BW	46	GLU	5.6
7	AG	90	LEU	5.6
38	BF	66	VAL	5.6
39	BG	84	LYS	5.6
4	AD	234	HIS	5.6
54	BV	81	ARG	5.6
35	BB	74	C	5.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
30	A6	3	LYS	5.6
31	A7	37	LYS	5.6
36	B1	8	A	5.6
28	A4	53	GLU	5.6
12	AM	61	VAL	5.5
28	A4	68	ARG	5.5
47	BO	20	LYS	5.5
2	AA	141(A)	C	5.5
4	AD	232	VAL	5.5
2	AA	2505	G	5.5
29	A5	24	ALA	5.5
41	BI	40	VAL	5.4
35	BB	38	A	5.4
41	BI	47	ARG	5.4
20	AU	6	LYS	5.4
2	AA	773	U	5.4
54	BV	28	LYS	5.4
48	BP	119	GLY	5.4
41	BI	88	VAL	5.4
42	BJ	61	VAL	5.4
53	BU	24	ALA	5.4
35	BB	6	U	5.4
47	BO	127	GLU	5.4
50	BR	6	GLU	5.4
7	AG	88	LEU	5.4
38	BF	143	GLU	5.4
17	AR	42	LEU	5.4
41	BI	53	ALA	5.4
30	A6	38	LYS	5.3
6	AF	88	SER	5.3
2	AA	772	C	5.3
47	BO	22	SER	5.3
15	AP	120	HIS	5.3
34	BA	1394	A	5.3
46	BN	93	GLN	5.3
42	BJ	147	ALA	5.3
28	A4	8	LYS	5.3
53	BU	23	LYS	5.3
2	AA	788	A	5.3
12	AM	132	LEU	5.3
7	AG	37	ALA	5.3
30	A6	54	LYS	5.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
3	AC	105	ASP	5.3
12	AM	107	ASN	5.3
17	AR	49	LEU	5.2
47	BO	44	THR	5.2
41	BI	51	PRO	5.2
13	AN	2	ILE	5.2
43	BK	13	ILE	5.2
36	B1	31	G	5.2
2	AA	546	C	5.2
4	AD	146	LYS	5.2
15	AP	153	PRO	5.2
10	AK	85	GLU	5.2
13	AN	108	ASP	5.2
36	B1	32	G	5.2
30	A6	7	ARG	5.2
38	BF	45	LYS	5.1
41	BI	41	GLU	5.1
6	AF	79	ARG	5.1
10	AK	9	VAL	5.1
38	BF	90	GLU	5.1
4	AD	169	LYS	5.1
17	AR	12	ASP	5.1
28	A4	69	ARG	5.1
41	BI	86	ARG	5.1
4	AD	183	ILE	5.1
23	AX	58	VAL	5.1
6	AF	208	ALA	5.1
40	BH	109	ILE	5.1
12	AM	33	GLY	5.1
6	AF	89	ALA	5.1
2	AA	1944	U	5.1
34	BA	5	U	5.1
28	A4	66	SER	5.1
2	AA	1963	U	5.1
2	AA	683	C	5.1
13	AN	59	LYS	5.0
4	AD	216	ALA	5.0
34	BA	1517	G	5.0
8	AH	151	ARG	5.0
28	A4	13	LYS	5.0
27	A3	5	LYS	5.0
17	AR	52	THR	5.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
53	BU	77	GLY	5.0
41	BI	95	GLU	5.0
48	BP	113	PRO	5.0
29	A5	59	ALA	5.0
42	BJ	83	ALA	5.0
48	BP	9	ILE	5.0
47	BO	59	ARG	5.0
53	BU	27	GLY	5.0
31	A7	2	LYS	5.0
4	AD	68	ARG	4.9
38	BF	72	LYS	4.9
17	AR	4	ARG	4.9
12	AM	67	ASN	4.9
13	AN	42	THR	4.9
2	AA	682	G	4.9
39	BG	83	SER	4.9
38	BF	200	ALA	4.9
40	BH	106	PRO	4.9
42	BJ	155	ARG	4.9
12	AM	7	ASP	4.9
12	AM	9	ASP	4.9
52	BT	102	GLY	4.9
4	AD	136	VAL	4.9
38	BF	167	TRP	4.9
7	AG	15	GLU	4.9
47	BO	68	ALA	4.9
53	BU	28	GLU	4.9
2	AA	684	G	4.9
2	AA	1490	A	4.9
38	BF	129	ALA	4.8
17	AR	9	CYS	4.8
4	AD	61	TYR	4.8
10	AK	41	PRO	4.8
42	BJ	62	PHE	4.8
6	AF	49	ASP	4.8
15	AP	119	ASN	4.8
6	AF	80	VAL	4.8
47	BO	42	THR	4.8
52	BT	45	HIS	4.8
13	AN	72	PRO	4.8
4	AD	124	LYS	4.8
10	AK	2	LYS	4.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
12	AM	105	LEU	4.8
4	AD	180	VAL	4.8
47	BO	47	LYS	4.8
30	A6	33	ALA	4.7
12	AM	81	ARG	4.7
51	BS	39	TYR	4.7
2	AA	973	A	4.7
2	AA	1952	A	4.7
20	AU	14	ALA	4.7
4	AD	200	THR	4.7
21	AV	88	TYR	4.7
38	BF	39	ILE	4.7
47	BO	65	GLU	4.7
7	AG	66	GLY	4.7
6	AF	233	THR	4.7
41	BI	56	PRO	4.7
5	AE	106	SER	4.7
8	AH	154	GLU	4.7
28	A4	30	GLU	4.7
40	BH	97	GLY	4.7
46	BN	14	VAL	4.7
6	AF	25	PRO	4.7
2	AA	1902	C	4.7
5	AE	72	VAL	4.7
12	AM	108	PRO	4.7
41	BI	94	GLN	4.6
39	BG	85	LYS	4.6
2	AA	1835	G	4.6
37	BE	229	VAL	4.6
6	AF	223	LEU	4.6
4	AD	231	ALA	4.6
4	AD	132	GLU	4.6
15	AP	117	GLY	4.6
21	AV	102	GLY	4.6
35	BB	76	A	4.6
3	AC	196	LEU	4.6
34	BA	1407	C	4.6
47	BO	108	ALA	4.6
9	AJ	36	PRO	4.6
26	A2	55	THR	4.6
6	AF	246	ARG	4.6
5	AE	301	PRO	4.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
52	BT	98	LEU	4.6
19	AT	59	ASP	4.6
27	A3	4	LYS	4.6
48	BP	120	LYS	4.6
46	BN	16	SER	4.6
9	AI	88	ALA	4.5
9	AJ	3	ILE	4.5
15	AP	136	TRP	4.5
41	BI	16	GLN	4.5
27	A3	57	HIS	4.5
48	BP	117	VAL	4.5
53	BU	83	GLU	4.5
18	AS	94	ASP	4.5
21	AV	151	ASP	4.5
40	BH	150	ARG	4.5
6	AF	99	SER	4.5
46	BN	74	ALA	4.5
2	AA	1542	G	4.5
27	A3	85	GLN	4.5
46	BN	99	GLN	4.5
2	AA	781	A	4.5
36	B1	9	C	4.5
48	BP	118	ALA	4.5
46	BN	124	LYS	4.5
26	A2	86	HIS	4.5
48	BP	2	ALA	4.5
20	AU	11	GLN	4.4
13	AN	54	LYS	4.4
2	AA	2610	C	4.4
39	BG	184	LYS	4.4
7	AG	58	VAL	4.4
39	BG	185	PHE	4.4
43	BK	66	GLY	4.4
6	AF	28	SER	4.4
6	AF	52	ALA	4.4
31	A7	9	ASN	4.4
43	BK	126	LYS	4.4
54	BV	17	GLU	4.4
22	AW	31	ARG	4.4
38	BF	207	VAL	4.4
9	AJ	4	ASP	4.4
14	AO	100	ALA	4.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
54	BV	21	GLU	4.4
55	BW	96	GLY	4.4
11	AL	139	VAL	4.4
39	BG	187	ARG	4.4
2	AA	2590	A	4.4
25	A1	34	ASN	4.4
6	AF	119	ALA	4.4
53	BU	88	LYS	4.4
38	BF	151	VAL	4.4
42	BJ	153	HIS	4.3
50	BR	14	GLU	4.3
8	AH	170	LEU	4.3
3	AC	125	SER	4.3
9	AJ	37	VAL	4.3
28	A4	21	VAL	4.3
12	AM	66	ASP	4.3
41	BI	100	ASN	4.3
4	AD	103	ILE	4.3
12	AM	93	ARG	4.3
26	A2	70	TYR	4.3
5	AE	296	VAL	4.3
38	BF	158	GLY	4.3
12	AM	79	PHE	4.3
46	BN	11	LYS	4.3
7	AG	68	PRO	4.3
6	AF	220	THR	4.3
9	AJ	7	ILE	4.3
46	BN	100	ALA	4.3
28	A4	71	SER	4.3
39	BG	192	GLU	4.3
4	AD	62	ARG	4.3
2	AA	125	G	4.3
2	AA	2145	C	4.3
36	B1	49	A	4.3
7	AG	11	HIS	4.3
6	AF	94	THR	4.3
2	AA	2558	C	4.3
25	A1	31	GLN	4.3
7	AG	27	ILE	4.2
25	A1	32	TYR	4.2
6	AF	222	ASP	4.2
36	B1	17	G	4.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
7	AG	36	ASN	4.2
37	BE	233	SER	4.2
38	BF	49	SER	4.2
38	BF	105	GLU	4.2
26	A2	84	THR	4.2
25	A1	71	LEU	4.2
2	AA	2606	C	4.2
46	BN	75	TYR	4.2
6	AF	12	THR	4.2
6	AF	29	ASP	4.2
13	AN	41	ALA	4.2
36	B1	71	A	4.2
4	AD	176	ALA	4.2
4	AD	135	PRO	4.2
2	AA	1920	C	4.1
5	AE	184	GLY	4.1
15	AP	25	GLY	4.1
2	AA	1695	G	4.1
46	BN	51	LYS	4.1
31	A7	15	THR	4.1
2	AA	1904	G	4.1
4	AD	101	ARG	4.1
48	BP	57	ARG	4.1
41	BI	85	VAL	4.1
34	BA	776	G	4.1
3	AC	106	GLY	4.1
15	AP	28	ILE	4.1
38	BF	42	LEU	4.1
32	A8	13	ARG	4.1
2	AA	795	C	4.1
2	AA	2021	C	4.1
40	BH	139	LEU	4.1
4	AD	166	LYS	4.1
5	AE	64	GLY	4.1
42	BJ	78	ARG	4.1
2	AA	1367	A	4.1
36	B1	15	A	4.1
5	AE	62	ARG	4.1
43	BK	125	ARG	4.1
37	BE	236	TYR	4.1
2	AA	1555	G	4.1
35	BB	14	A	4.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
18	AS	24	ILE	4.0
28	A4	19	GLN	4.0
53	BU	86	VAL	4.0
2	AA	775	G	4.0
6	AF	165	ASP	4.0
18	AS	110	LYS	4.0
31	A7	23	LYS	4.0
2	AA	2062	A	4.0
3	AC	98	GLU	4.0
5	AE	103	GLU	4.0
27	A3	18	PRO	4.0
41	BI	55	ASP	4.0
43	BK	102	ARG	4.0
41	BI	37	VAL	4.0
41	BI	32	ASN	4.0
46	BN	86	GLY	4.0
3	AC	47	LEU	4.0
5	AE	249	THR	4.0
6	AF	24	THR	4.0
26	A2	73	LYS	4.0
51	BS	19	ILE	4.0
17	AR	44	ARG	4.0
31	A7	21	ARG	4.0
18	AS	47	VAL	4.0
2	AA	2238	G	4.0
5	AE	74	GLU	4.0
6	AF	235	PHE	4.0
14	AO	101	ASP	4.0
42	BJ	154	TYR	4.0
38	BF	86	VAL	4.0
4	AD	152	GLN	4.0
5	AE	39	GLN	4.0
4	AD	70	LYS	4.0
5	AE	293	TYR	3.9
4	AD	104	ILE	3.9
8	AH	94	ARG	3.9
4	AD	177	SER	3.9
5	AE	65	MET	3.9
31	A7	27	GLY	3.9
4	AD	174	ARG	3.9
4	AD	173	VAL	3.9
18	AS	65	LEU	3.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	AA	771	G	3.9
2	AA	2242	G	3.9
30	A6	13	GLU	3.9
42	BJ	73	MET	3.9
2	AA	444	C	3.9
13	AN	107	ARG	3.9
33	A9	4	ARG	3.9
41	BI	27	GLN	3.9
41	BI	46	ARG	3.9
10	AK	124	LEU	3.9
18	AS	86	LEU	3.9
5	AE	299	SER	3.9
39	BG	81	GLU	3.9
53	BU	82	THR	3.9
34	BA	1538	C	3.9
40	BH	119	LEU	3.9
21	AV	140	LYS	3.9
2	AA	1919	A	3.9
15	AP	24	PRO	3.9
39	BG	142	PRO	3.9
2	AA	1541	U	3.9
5	AE	107	GLU	3.9
2	AA	1905	C	3.9
36	B1	56	A	3.9
37	BE	214	ILE	3.9
38	BF	152	ILE	3.8
41	BI	90	VAL	3.8
2	AA	1950	G	3.8
2	AA	1971	A	3.8
8	AH	114	ILE	3.8
37	BE	238	LEU	3.8
29	A5	9	LYS	3.8
4	AD	89	ASN	3.8
42	BJ	90	GLU	3.8
26	A2	38	LEU	3.8
39	BG	110	PHE	3.8
41	BI	83	ASP	3.8
2	AA	1585	C	3.8
21	AV	43	PHE	3.8
12	AM	34	GLU	3.8
2	AA	2462	U	3.8
2	AA	2603	G	3.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	AA	2114	A	3.8
31	A7	31	LEU	3.8
6	AF	53	GLY	3.8
19	AT	8	PRO	3.8
48	BP	121	LYS	3.8
2	AA	1836	C	3.8
20	AU	85	GLU	3.8
35	BB	27	C	3.8
35	BB	75	C	3.8
2	AA	1921	G	3.8
4	AD	88	ALA	3.8
18	AS	6	ILE	3.8
7	AG	89	PRO	3.7
6	AF	158	GLU	3.7
2	AA	1918	A	3.7
28	A4	63	PHE	3.7
6	AF	219	ASN	3.7
40	BH	120	THR	3.7
47	BO	19	ARG	3.7
40	BH	153	LYS	3.7
46	BN	96	ARG	3.7
28	A4	20	VAL	3.7
51	BS	83	GLU	3.7
21	AV	120	LEU	3.7
2	AA	2591	C	3.7
15	AP	114	ARG	3.7
27	A3	51	VAL	3.7
46	BN	108	ILE	3.7
7	AG	94	ALA	3.7
22	AW	1	THR	3.7
28	A4	12	CYS	3.7
39	BG	89	THR	3.7
7	AG	132	VAL	3.7
2	AA	2605	U	3.7
17	AR	15	PRO	3.7
39	BG	176	LEU	3.7
47	BO	100	ILE	3.7
11	AL	83	ALA	3.7
54	BV	18	LYS	3.7
34	BA	1497	G	3.7
13	AN	17	ARG	3.7
36	B1	57	A	3.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
32	A8	59	LYS	3.7
41	BI	54	LYS	3.7
2	AA	1696	G	3.6
42	BJ	149	ARG	3.6
35	BB	17	U	3.6
39	BG	175	SER	3.6
28	A4	27	THR	3.6
35	BB	32	C	3.6
39	BG	171	GLY	3.6
26	A2	82	ARG	3.6
47	BO	92	ASP	3.6
46	BN	84	VAL	3.6
17	AR	46	ALA	3.6
10	AK	145	VAL	3.6
41	BI	82	ARG	3.6
13	AN	73	ASP	3.6
13	AN	80	ASP	3.6
55	BW	47	GLY	3.6
36	B1	46	A	3.6
13	AN	33	ALA	3.6
18	AS	2	GLU	3.6
5	AE	193	PHE	3.6
5	AE	109	ASP	3.6
20	AU	83	ASP	3.6
47	BO	63	GLY	3.6
46	BN	70	LYS	3.6
3	AC	34	THR	3.6
3	AC	31	GLU	3.6
53	BU	81	PHE	3.6
29	A5	58	LEU	3.6
52	BT	43	LEU	3.6
28	A4	51	ASP	3.6
47	BO	5	PRO	3.6
26	A2	7	THR	3.6
5	AE	86	TYR	3.6
27	A3	83	ALA	3.6
46	BN	107	SER	3.6
30	A6	12	MET	3.6
53	BU	46	GLU	3.6
4	AD	64	ILE	3.6
39	BG	167	GLY	3.6
50	BR	89	GLY	3.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	AA	1843	C	3.6
54	BV	13	ASP	3.5
32	A8	18	GLY	3.5
2	AA	2441	C	3.5
18	AS	68	ARG	3.5
38	BF	43	LEU	3.5
7	AG	154	LYS	3.5
5	AE	40	GLY	3.5
2	AA	2556	C	3.5
53	BU	79	LEU	3.5
47	BO	96	VAL	3.5
7	AG	54	ALA	3.5
2	AA	1823	G	3.5
13	AN	90	ASP	3.5
18	AS	67	ASP	3.5
40	BH	118	ILE	3.5
5	AE	263	GLU	3.5
3	AC	116	THR	3.5
7	AG	59	GLY	3.5
49	BQ	13	THR	3.5
36	B1	63	C	3.5
41	BI	6	VAL	3.5
2	AA	2192	G	3.5
53	BU	33	ASP	3.5
27	A3	52	GLY	3.5
35	BB	47	U	3.5
2	AA	1765	C	3.5
2	AA	1949	G	3.5
36	B1	50	G	3.5
6	AF	138	VAL	3.5
7	AG	21	VAL	3.5
10	AK	129	VAL	3.5
15	AP	83	PHE	3.5
17	AR	56	ARG	3.5
37	BE	235	SER	3.5
42	BJ	110	GLN	3.5
6	AF	58	ALA	3.5
2	AA	794	G	3.5
18	AS	51	LEU	3.5
39	BG	108	LEU	3.5
25	A1	26	GLY	3.5
12	AM	55	GLU	3.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
39	BG	198	VAL	3.5
46	BN	129	SER	3.5
41	BI	57	GLN	3.5
6	AF	166	ILE	3.5
39	BG	146	ILE	3.5
2	AA	1954	G	3.4
15	AP	137	ARG	3.4
3	AC	205	LYS	3.4
18	AS	4	LYS	3.4
2	AA	1786	A	3.4
6	AF	56	THR	3.4
15	AP	69	ASN	3.4
36	B1	45	A	3.4
36	B1	47	U	3.4
37	BE	7	VAL	3.4
39	BG	151	LYS	3.4
41	BI	79	LEU	3.4
43	BK	39	LEU	3.4
6	AF	55	ARG	3.4
27	A3	55	ARG	3.4
34	BA	1520	G	3.4
28	A4	46	GLU	3.4
35	BB	28	C	3.4
41	BI	93	SER	3.4
29	A5	55	ARG	3.4
41	BI	1	MET	3.4
2	AA	1917	U	3.4
35	BC	16	U	3.4
36	B1	70	U	3.4
41	BI	22	GLU	3.4
6	AF	163	HIS	3.4
34	BA	1510	U	3.4
35	BB	16	U	3.4
2	AA	1822	G	3.4
15	AP	131	ALA	3.4
47	BO	16	GLU	3.4
21	AV	100	THR	3.4
6	AF	86	GLY	3.4
47	BO	73	GLU	3.4
5	AE	232	ARG	3.4
7	AG	136	ARG	3.4
38	BF	107	GLN	3.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
52	BT	83	ASP	3.4
18	AS	103	ILE	3.4
27	A3	86	THR	3.4
37	BE	200	ILE	3.4
47	BO	76	ASN	3.4
5	AE	310	PHE	3.3
6	AF	111	VAL	3.3
28	A4	48	ARG	3.3
37	BE	175	ARG	3.3
50	BR	88	ARG	3.3
24	A0	98	LEU	3.3
39	BG	91	SER	3.3
30	A6	34	LYS	3.3
41	BI	59	TYR	3.3
2	AA	1851	U	3.3
26	A2	50	ASP	3.3
8	AH	15	THR	3.3
30	A6	18	THR	3.3
37	BE	234	PRO	3.3
7	AG	43	GLU	3.3
2	AA	1731	G	3.3
15	AP	73	GLN	3.3
34	BA	775	G	3.3
35	BB	37	G	3.3
43	BK	134	ILE	3.3
5	AE	102	ASP	3.3
15	AP	94	ARG	3.3
34	BA	1404	C	3.3
4	AD	182	MET	3.3
2	AA	400	G	3.3
51	BS	53	VAL	3.3
6	AF	15	GLU	3.3
36	B1	42	G	3.3
42	BJ	60	LYS	3.3
40	BH	147	ASP	3.3
21	AV	139	THR	3.3
28	A4	52	THR	3.3
54	BV	59	PRO	3.3
38	BF	102	ASN	3.3
9	AI	87	GLU	3.3
41	BI	31	GLU	3.3
2	AA	726	G	3.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
20	AU	8	ARG	3.3
32	A8	64	ARG	3.3
37	BE	197	VAL	3.3
41	BI	3	ARG	3.3
5	AE	71	THR	3.3
38	BF	82	GLU	3.2
5	AE	253	GLN	3.2
8	AH	112	VAL	3.2
22	AW	2	VAL	3.2
38	BF	168	ALA	3.2
38	BF	175	LEU	3.2
39	BG	196	LEU	3.2
2	AA	1946	U	3.2
4	AD	83	ASP	3.2
11	AL	90	SER	3.2
38	BF	68	VAL	3.2
6	AF	1	MET	3.2
12	AM	63	ILE	3.2
34	BA	1509	C	3.2
9	AJ	90	ASP	3.2
15	AP	98	GLY	3.2
19	AT	76	GLU	3.2
23	AX	28	LEU	3.2
4	AD	222	PRO	3.2
34	BA	1403	C	3.2
35	BB	2	C	3.2
39	BG	172	PRO	3.2
47	BO	46	LYS	3.2
8	AH	91	VAL	3.2
13	AN	51	VAL	3.2
17	AR	53	ASP	3.2
50	BR	53	HIS	3.2
4	AD	79	THR	3.2
46	BN	87	THR	3.2
12	AM	4	ALA	3.2
32	A8	54	GLU	3.2
18	AS	61	ASN	3.2
33	A9	36	GLN	3.2
34	BA	688	G	3.2
5	AE	173	ARG	3.2
46	BN	54	ARG	3.2
24	A0	14	SER	3.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
12	AM	5	GLU	3.2
38	BF	169	ALA	3.2
50	BR	16	ALA	3.2
52	BT	30	PRO	3.2
3	AC	13	LYS	3.1
6	AF	2	GLU	3.1
38	BF	192	THR	3.1
2	AA	2260	C	3.1
2	AA	1482	U	3.1
34	BA	693	G	3.1
38	BF	75	VAL	3.1
7	AG	25	MET	3.1
46	BN	73	MET	3.1
30	A6	8	ILE	3.1
5	AE	223	LYS	3.1
15	AP	118	ALA	3.1
28	A4	34	ASP	3.1
2	AA	2059	A	3.1
37	BE	37	ASN	3.1
12	AM	109	TYR	3.1
18	AS	105	VAL	3.1
15	AP	141	MET	3.1
10	AK	119	ASP	3.1
11	AL	86	GLU	3.1
17	AR	45	GLU	3.1
24	A0	102	GLU	3.1
48	BP	50	GLU	3.1
12	AM	76	ASP	3.1
46	BN	110	ASP	3.1
7	AG	16	PRO	3.1
7	AG	52	THR	3.1
38	BF	127	ARG	3.1
13	AN	113	LYS	3.1
41	BI	84	ASN	3.1
47	BO	13	LYS	3.1
35	BB	10	G	3.1
9	AJ	40	ALA	3.1
5	AE	66	GLU	3.1
4	AD	170	TYR	3.1
14	AO	143	THR	3.1
45	BM	100	THR	3.1
12	AM	141	ALA	3.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
28	A4	6	HIS	3.1
6	AF	87	ARG	3.1
9	AJ	54	GLU	3.1
24	A0	38	VAL	3.1
52	BT	92	ARG	3.1
13	AN	48	PRO	3.1
9	AI	90	ASP	3.1
37	BE	68	ILE	3.1
41	BI	11	ASN	3.1
8	AH	75	VAL	3.1
40	BH	64	ARG	3.1
40	BH	140	ARG	3.1
47	BO	101	VAL	3.1
54	BV	25	LYS	3.1
26	A2	71	ILE	3.1
42	BJ	50	ILE	3.1
43	BK	111	ILE	3.1
3	AC	50	ASP	3.0
5	AE	101	THR	3.0
28	A4	65	ASP	3.0
2	AA	739	G	3.0
6	AF	26	VAL	3.0
30	A6	43	VAL	3.0
39	BG	209	ARG	3.0
3	AC	121	GLY	3.0
9	AJ	93	GLU	3.0
18	AS	26	GLY	3.0
38	BF	87	LEU	3.0
39	BG	162	LEU	3.0
2	AA	2113	U	3.0
5	AE	312	ARG	3.0
15	AP	66	ASN	3.0
24	A0	99	LYS	3.0
30	A6	27	ASN	3.0
55	BW	87	LYS	3.0
2	AA	1901	A	3.0
3	AC	203	GLY	3.0
2	AA	1852	C	3.0
2	AA	2604	U	3.0
40	BH	135	THR	3.0
7	AG	60	GLU	3.0
30	A6	20	PHE	3.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
8	AH	79	SER	3.0
43	BK	122	ARG	3.0
2	AA	1930	G	3.0
2	AA	2060	A	3.0
2	AA	387	U	3.0
35	BB	39	U	3.0
42	BJ	74	GLU	3.0
14	AO	52	LYS	3.0
4	AD	76	ARG	3.0
41	BI	28	ARG	3.0
41	BI	89	MET	3.0
2	AA	190	A	3.0
2	AA	1512	G	3.0
9	AJ	98	PRO	3.0
26	A2	85	GLY	3.0
18	AS	93	ALA	3.0
20	AU	5	ASP	3.0
3	AC	188	ASN	3.0
27	A3	12	ASN	3.0
6	AF	68	ALA	3.0
21	AV	12	GLN	3.0
26	A2	56	VAL	3.0
6	AF	54	LEU	2.9
10	AK	89	LEU	2.9
34	BA	1257	U	2.9
2	AA	782	A	2.9
27	A3	16	SER	2.9
6	AF	92	PRO	2.9
35	BC	1	G	2.9
43	BK	44	PHE	2.9
14	AO	60	GLU	2.9
30	A6	51	ARG	2.9
3	AC	101	GLN	2.9
39	BG	174	LEU	2.9
47	BO	85	ILE	2.9
18	AS	91	GLY	2.9
34	BA	1519	A	2.9
12	AM	70	PHE	2.9
32	A8	63	PRO	2.9
2	AA	2032	G	2.9
2	AA	2258	C	2.9
15	AP	68	ALA	2.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
34	BA	1496	C	2.9
39	BG	88	VAL	2.9
39	BG	199	ASN	2.9
3	AC	63	SER	2.9
46	BN	36	ASP	2.9
7	AG	64	ARG	2.9
10	AK	143	VAL	2.9
21	AV	3	LEU	2.9
32	A8	50	LEU	2.9
40	BH	91	LEU	2.9
35	BB	45	G	2.9
42	BJ	125	MET	2.9
2	AA	2433	A	2.9
2	AA	580	C	2.9
4	AD	143	ILE	2.9
15	AP	154	ALA	2.9
18	AS	89	ALA	2.9
28	A4	44	THR	2.9
33	A9	3	VAL	2.9
38	BF	149	ALA	2.9
52	BT	39	SER	2.9
2	AA	1779	U	2.9
2	AA	2211	G	2.9
35	BB	42	G	2.9
25	A1	63	GLN	2.9
28	A4	43	TRP	2.9
46	BN	102	GLY	2.9
3	AC	16	PRO	2.9
4	AD	106	PRO	2.9
17	AR	40	ALA	2.9
18	AS	46	PHE	2.9
11	AL	84	GLY	2.9
35	BB	44	A	2.9
21	AV	175	ARG	2.9
26	A2	13	ARG	2.9
39	BG	107	ARG	2.9
46	BN	25	TYR	2.9
47	BO	97	ARG	2.9
2	AA	687	C	2.9
2	AA	2129	C	2.9
35	BB	40	C	2.9
12	AM	35	THR	2.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
27	A3	3	HIS	2.9
10	AK	15	LYS	2.9
41	BI	98	LEU	2.9
10	AK	79	ILE	2.8
34	BA	1408	A	2.8
42	BJ	66	VAL	2.8
53	BU	35	ARG	2.8
28	A4	26	SER	2.8
30	A6	24	THR	2.8
18	AS	63	ASP	2.8
2	AA	2210	G	2.8
4	AD	109	LEU	2.8
5	AE	63	GLU	2.8
21	AV	52	PHE	2.8
27	A3	54	GLY	2.8
54	BV	8	GLY	2.8
35	BB	36	A	2.8
38	BF	108	ASN	2.8
42	BJ	152	ALA	2.8
2	AA	791	C	2.8
24	A0	42	LYS	2.8
47	BO	93	LEU	2.8
14	AO	141	GLU	2.8
39	BG	179	GLU	2.8
43	BK	52	ASP	2.8
35	BB	33	U	2.8
46	BN	109	VAL	2.8
2	AA	466	A	2.8
28	A4	16	TYR	2.8
36	B1	44	A	2.8
40	BH	96	PRO	2.8
8	AH	100	LYS	2.8
47	BO	80	HIS	2.8
2	AA	1951	U	2.8
3	AC	12	GLU	2.8
6	AF	7	ASP	2.8
6	AF	17	ASP	2.8
25	A1	25	TRP	2.8
39	BG	163	GLU	2.8
41	BI	58	GLY	2.8
45	BM	89	ASP	2.8
50	BR	7	GLU	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
54	BV	29	ARG	2.8
36	B1	59	A	2.8
7	AG	84	LEU	2.8
49	BQ	7	ILE	2.8
12	AM	42	GLU	2.8
27	A3	22	GLY	2.8
6	AF	143	ASP	2.8
9	AJ	99	ASP	2.8
34	BA	687	A	2.8
36	B1	33	G	2.8
4	AD	105	ALA	2.8
2	AA	2437	U	2.8
25	A1	64	ARG	2.8
37	BE	239	VAL	2.8
2	AA	1421	G	2.8
2	AA	2599	G	2.8
6	AF	198	ASP	2.8
2	AA	1914	C	2.8
2	AA	2144	U	2.8
9	AJ	6	ILE	2.8
19	AT	7	HIS	2.8
21	AV	150	GLY	2.8
50	BR	5	LYS	2.8
2	AA	769	G	2.8
6	AF	156	LEU	2.8
7	AG	152	PRO	2.8
18	AS	22	ASP	2.8
46	BN	95	ILE	2.7
4	AD	199	ARG	2.7
39	BG	49	ARG	2.7
37	BE	8	LYS	2.7
6	AF	202	THR	2.7
21	AV	132	GLN	2.7
40	BH	87	SER	2.7
14	AO	80	ASP	2.7
3	AC	58	VAL	2.7
5	AE	201	VAL	2.7
50	BR	87	ILE	2.7
54	BV	49	ILE	2.7
26	A2	65	ARG	2.7
53	BU	18	ARG	2.7
18	AS	60	ASN	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
25	A1	7	GLY	2.7
30	A6	19	GLY	2.7
49	BQ	2	ALA	2.7
34	BA	1537	U	2.7
38	BF	67	THR	2.7
6	AF	13	ASP	2.7
6	AF	161	ASP	2.7
9	AI	74	ILE	2.7
35	BB	15	G	2.7
35	BB	20	G	2.7
4	AD	215	LYS	2.7
29	A5	8	LYS	2.7
48	BP	126	LYS	2.7
13	AN	49	GLY	2.7
23	AX	26	LEU	2.7
3	AC	198	ALA	2.7
35	BC	76	A	2.7
9	AJ	11	GLU	2.7
37	BE	129	GLU	2.7
52	BT	96	GLN	2.7
2	AA	2551	C	2.7
2	AA	2867	G	2.7
23	AX	56	VAL	2.7
35	BB	43	G	2.7
43	BK	68	ARG	2.7
37	BE	160	ASP	2.7
21	AV	34	LEU	2.7
2	AA	1365	A	2.7
2	AA	1732	A	2.7
39	BG	29	PRO	2.7
15	AP	149	ILE	2.7
53	BU	75	ILE	2.7
26	A2	68	LYS	2.7
41	BI	39	LYS	2.7
32	A8	51	ALA	2.7
2	AA	1204	A	2.7
4	AD	93	ILE	2.7
11	AL	85	ILE	2.7
20	AU	18	GLU	2.7
31	A7	28	ARG	2.7
40	BH	38	GLN	2.7
52	BT	24	GLU	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	AA	2128	C	2.7
6	AF	147	LEU	2.7
6	AF	193	LEU	2.7
52	BT	7	THR	2.7
55	BW	91	LEU	2.7
12	AM	64	GLY	2.7
2	AA	1778	U	2.7
7	AG	91	ALA	2.7
49	BQ	10	ALA	2.7
5	AE	318	ASN	2.7
25	A1	88	ILE	2.7
5	AE	81	VAL	2.7
6	AF	148	VAL	2.7
31	A7	39	ARG	2.7
39	BG	116	GLN	2.7
2	AA	544	C	2.7
2	AA	1837	C	2.7
2	AA	1099	G	2.7
12	AM	131	THR	2.7
2	AA	1955	U	2.7
2	AA	1991	U	2.7
35	BB	26	G	2.7
21	AV	161	ALA	2.6
24	A0	16	HIS	2.6
40	BH	92	LYS	2.6
4	AD	230	ASN	2.6
13	AN	13	ASN	2.6
15	AP	74	ASN	2.6
6	AF	59	GLU	2.6
39	BG	34	GLU	2.6
2	AA	2076	U	2.6
2	AA	2245	U	2.6
10	AK	40	THR	2.6
13	AN	96	THR	2.6
21	AV	42	ALA	2.6
6	AF	142	ASP	2.6
13	AN	102	VAL	2.6
47	BO	45	PRO	2.6
52	BT	101	ARG	2.6
3	AC	27	HIS	2.6
2	AA	992	C	2.6
2	AA	2902	C	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
29	A5	56	GLN	2.6
40	BH	83	GLU	2.6
12	AM	106	GLY	2.6
43	BK	55	GLY	2.6
12	AM	135	ILE	2.6
25	A1	27	SER	2.6
35	BB	24	G	2.6
2	AA	548	A	2.6
40	BH	105	VAL	2.6
40	BH	115	VAL	2.6
41	BI	19	LEU	2.6
6	AF	151	GLN	2.6
38	BF	125	GLU	2.6
52	BT	16	GLN	2.6
3	AC	102	LYS	2.6
2	AA	1916	A	2.6
5	AE	110	ARG	2.6
38	BF	165	THR	2.6
55	BW	84	LEU	2.6
3	AC	117	PRO	2.6
15	AP	122	PHE	2.6
3	AC	79	LYS	2.6
11	AL	64	LYS	2.6
38	BF	96	GLY	2.6
14	AO	96	VAL	2.6
13	AN	112	MET	2.6
18	AS	88	ARG	2.6
2	AA	1356	G	2.6
3	AC	217	THR	2.6
53	BU	25	THR	2.6
52	BT	97	SER	2.6
2	AA	679	C	2.6
2	AA	1513	C	2.6
4	AD	114	GLU	2.6
21	AV	121	GLN	2.6
37	BE	45	GLN	2.6
6	AF	218	VAL	2.6
25	A1	109	LEU	2.6
40	BH	146	ALA	2.6
41	BI	2	ARG	2.6
2	AA	1789	A	2.6
2	AA	2133	G	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
35	BB	34	G	2.6
6	AF	20	ASP	2.6
43	BK	54	ASP	2.6
10	AK	37	ILE	2.6
10	AK	50	GLN	2.6
5	AE	300	VAL	2.6
10	AK	39	ALA	2.6
13	AN	39	VAL	2.6
14	AO	75	LEU	2.6
15	AP	61	LEU	2.6
50	BR	85	LEU	2.6
14	AO	72	ASN	2.6
28	A4	62	ARG	2.6
51	BS	81	ARG	2.6
26	A2	80	TYR	2.6
2	AA	681	G	2.6
2	AA	1480	G	2.6
3	AC	40	THR	2.6
4	AD	213	LYS	2.5
2	AA	2085	C	2.5
17	AR	7	ASP	2.5
27	A3	15	ASP	2.5
52	BT	76	LEU	2.5
4	AD	144	GLU	2.5
6	AF	67	GLN	2.5
48	BP	5	ALA	2.5
5	AE	242	ASN	2.5
2	AA	1850	G	2.5
3	AC	180	PHE	2.5
20	AU	69	LYS	2.5
55	BW	48	LYS	2.5
6	AF	155	SER	2.5
2	AA	1983	C	2.5
28	A4	32	HIS	2.5
10	AK	16	GLY	2.5
13	AN	40	VAL	2.5
3	AC	35	ALA	2.5
10	AK	118	ALA	2.5
2	AA	1785	A	2.5
2	AA	1809	A	2.5
2	AA	1847	A	2.5
2	AA	2598	A	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
17	AR	6	CYS	2.5
37	BE	179	LYS	2.5
40	BH	128	PRO	2.5
36	B1	53	G	2.5
51	BS	73	LEU	2.5
3	AC	221	SER	2.5
4	AD	77	VAL	2.5
15	AP	58	HIS	2.5
15	AP	143	VAL	2.5
26	A2	77	GLY	2.5
6	AF	159	ALA	2.5
10	AK	123	ALA	2.5
9	AJ	12	LYS	2.5
11	AL	95	LYS	2.5
45	BM	99	LYS	2.5
46	BN	122	LYS	2.5
43	BK	67	PRO	2.5
2	AA	2127	G	2.5
2	AA	2442	C	2.5
7	AG	107	GLY	2.5
34	BA	630	G	2.5
38	BF	190	ARG	2.5
39	BG	125	HIS	2.5
46	BN	85	ARG	2.5
47	BO	75	HIS	2.5
47	BO	89	ARG	2.5
52	BT	79	SER	2.5
42	BJ	146	GLU	2.5
47	BO	79	GLU	2.5
10	AK	7	LYS	2.5
35	BB	31	A	2.5
43	BK	98	LYS	2.5
47	BO	21	LYS	2.5
21	AV	176	LEU	2.5
27	A3	59	LEU	2.5
4	AD	172	ILE	2.5
15	AP	85	ILE	2.5
31	A7	44	VAL	2.5
2	AA	680	G	2.5
37	BE	123	ALA	2.5
5	AE	45	LYS	2.5
12	AM	73	LYS	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
41	BI	30	LEU	2.5
31	A7	29	ASN	2.5
2	AA	1915	U	2.5
35	BB	7	U	2.5
36	B1	68	U	2.5
2	AA	1176	G	2.5
2	AA	2489	G	2.5
46	BN	15	ALA	2.5
12	AM	29	GLN	2.5
12	AM	104	TYR	2.5
14	AO	51	PHE	2.5
14	AO	58	GLN	2.5
2	AA	1494	A	2.5
40	BH	131	ILE	2.5
18	AS	87	PRO	2.5
6	AF	36	ARG	2.5
35	BB	12	U	2.5
10	AK	10	LYS	2.5
49	BQ	11	LYS	2.5
5	AE	311	PHE	2.4
7	AG	106	PHE	2.4
7	AG	134	LEU	2.4
35	BB	29	A	2.4
43	BK	35	ILE	2.4
11	AL	23	PRO	2.4
41	BI	15	ASP	2.4
7	AG	93	LEU	2.4
2	AA	929	G	2.4
3	AC	7	TYR	2.4
8	AH	147	ILE	2.4
15	AP	62	GLU	2.4
18	AS	109	GLU	2.4
6	AF	21	VAL	2.4
22	AW	40	PRO	2.4
46	BN	91	ARG	2.4
5	AE	319	ASP	2.4
51	BS	78	GLY	2.4
52	BT	52	LYS	2.4
21	AV	83	PHE	2.4
13	AN	86	ILE	2.4
45	BM	87	THR	2.4
8	AH	168	VAL	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
38	BF	173	VAL	2.4
26	A2	1	MET	2.4
47	BO	48	PRO	2.4
25	A1	22	LYS	2.4
10	AK	117	LEU	2.4
12	AM	13	ASP	2.4
27	A3	13	GLY	2.4
2	AA	1207	C	2.4
4	AD	209	ASN	2.4
2	AA	1554	A	2.4
19	AT	58	MET	2.4
20	AU	41	ARG	2.4
32	A8	23	MET	2.4
47	BO	86	ARG	2.4
37	BE	126	GLU	2.4
41	BI	96	PRO	2.4
21	AV	11	LYS	2.4
39	BG	120	LEU	2.4
43	BK	135	CYS	2.4
22	AW	39	ALA	2.4
4	AD	69	ASP	2.4
39	BG	140	VAL	2.4
18	AS	78	GLU	2.4
29	A5	47	PRO	2.4
37	BE	240	GLN	2.4
47	BO	23	LYS	2.4
38	BF	41	GLY	2.4
7	AG	10	PHE	2.4
17	AR	55	ALA	2.4
4	AD	225	ARG	2.4
25	A1	72	HIS	2.4
42	BJ	143	ARG	2.4
50	BR	17	ARG	2.4
47	BO	123	LYS	2.4
2	AA	465	G	2.4
5	AE	220	GLN	2.4
23	AX	57	GLU	2.4
26	A2	43	GLU	2.4
40	BH	149	GLU	2.4
22	AW	64	GLY	2.4
28	A4	37	SER	2.4
52	BT	44	ALA	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
36	B1	43	C	2.4
46	BN	83	ILE	2.4
54	BV	31	ILE	2.4
39	BG	157	LEU	2.4
2	AA	770	G	2.3
2	AA	1203	G	2.3
2	AA	2218	G	2.3
36	B1	27	G	2.3
52	BT	47	PRO	2.3
54	BV	76	PRO	2.3
41	BI	38	GLU	2.3
15	AP	111	THR	2.3
17	AR	13	ILE	2.3
6	AF	60	SER	2.3
46	BN	101	SER	2.3
53	BU	45	SER	2.3
13	AN	1	MET	2.3
6	AF	101	ASP	2.3
41	BI	23	LYS	2.3
52	BT	87	LYS	2.3
5	AE	307	LEU	2.3
50	BR	67	LEU	2.3
7	AG	155	HIS	2.3
5	AE	190	ASN	2.3
17	AR	39	ASN	2.3
5	AE	260	GLN	2.3
15	AP	110	GLY	2.3
17	AR	10	GLY	2.3
34	BA	1511	G	2.3
4	AD	115	ILE	2.3
24	A0	112	ALA	2.3
34	BA	1406	U	2.3
2	AA	2463	C	2.3
5	AE	268	LEU	2.3
11	AL	22	PRO	2.3
7	AG	12	GLU	2.3
35	BB	22	G	2.3
38	BF	104	GLN	2.3
3	AC	134	ARG	2.3
2	AA	990	A	2.3
20	AU	4	PRO	2.3
12	AM	83	ILE	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
11	AL	21	ALA	2.3
15	AP	103	ALA	2.3
2	AA	2193	G	2.3
38	BF	44	GLU	2.3
5	AE	219	VAL	2.3
2	AA	2111	C	2.3
36	B1	22	C	2.3
41	BI	14	LEU	2.3
41	BI	36	ARG	2.3
41	BI	61	LEU	2.3
3	AC	179	SER	2.3
14	AO	105	TYR	2.3
36	B1	21	U	2.3
5	AE	172	ASP	2.3
32	A8	28	GLY	2.3
48	BP	83	ASP	2.3
42	BJ	56	GLN	2.3
47	BO	36	VAL	2.3
53	BU	41	LYS	2.3
2	AA	712	G	2.3
3	AC	6	ARG	2.3
2	AA	529	A	2.3
2	AA	777	A	2.3
2	AA	1913	A	2.3
2	AA	2212	A	2.3
6	AF	117	ALA	2.3
38	BF	93	LYS	2.3
47	BO	119	LYS	2.3
38	BF	79	ARG	2.3
52	BT	81	ARG	2.3
2	AA	1355	G	2.3
2	AA	2184	G	2.3
40	BH	65	ASN	2.3
48	BP	106	ASN	2.3
10	AK	98	ILE	2.3
12	AM	75	PRO	2.3
13	AN	74	GLY	2.3
15	AP	139	ALA	2.3
11	AL	36	MET	2.3
39	BG	193	ASP	2.3
51	BS	57	ARG	2.3
2	AA	462	C	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	AA	2424	C	2.2
9	AJ	8	GLU	2.2
10	AK	38	GLU	2.2
36	B1	54	G	2.2
2	AA	1820	U	2.2
9	AJ	29	PHE	2.2
38	BF	128	PHE	2.2
5	AE	67	THR	2.2
21	AV	104	SER	2.2
24	A0	74	LYS	2.2
38	BF	185	GLY	2.2
42	BJ	19	GLY	2.2
52	BT	99	SER	2.2
5	AE	315	VAL	2.2
6	AF	16	VAL	2.2
30	A6	44	ALA	2.2
17	AR	47	ARG	2.2
7	AG	67	ASP	2.2
2	AA	2098	U	2.2
2	AA	189	G	2.2
2	AA	1534	G	2.2
2	AA	2219	G	2.2
3	AC	192	PHE	2.2
4	AD	134	ILE	2.2
13	AN	34	ASN	2.2
37	BE	162	ILE	2.2
39	BG	77	ASN	2.2
2	AA	789	A	2.2
26	A2	66	GLY	2.2
38	BF	74	GLY	2.2
47	BO	58	VAL	2.2
50	BR	19	PRO	2.2
5	AE	228	ARG	2.2
2	AA	1741	C	2.2
17	AR	14	GLU	2.2
18	AS	66	GLU	2.2
26	A2	34	GLU	2.2
37	BE	146	GLN	2.2
5	AE	271	ILE	2.2
41	BI	26	ILE	2.2
46	BN	21	ILE	2.2
2	AA	64	A	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	AA	2241	A	2.2
9	AJ	94	LYS	2.2
34	BA	1220	G	2.2
6	AF	157	LEU	2.2
6	AF	206	ASN	2.2
13	AN	20	LEU	2.2
8	AH	16	VAL	2.2
18	AS	92	ARG	2.2
18	AS	104	THR	2.2
32	A8	19	THR	2.2
36	B1	10	U	2.2
42	BJ	49	ILE	2.2
14	AO	102	ASP	2.2
21	AV	145	ASP	2.2
9	AJ	25	LEU	2.2
38	BF	184	TYR	2.2
2	AA	547	A	2.2
2	AA	689	A	2.2
2	AA	1244	G	2.2
2	AA	1379	A	2.2
34	BA	1491	G	2.2
3	AC	9	ALA	2.2
6	AF	244	ALA	2.2
15	AP	53	PRO	2.2
30	A6	17	GLY	2.2
47	BO	95	GLY	2.2
26	A2	45	THR	2.2
34	BA	1498	U	2.2
35	BC	17	U	2.2
3	AC	147	PHE	2.2
10	AK	18	ILE	2.2
32	A8	14	ILE	2.2
18	AS	97	LYS	2.2
35	BB	25	C	2.2
53	BU	84	LYS	2.2
10	AK	44	LEU	2.2
13	AN	8	LEU	2.2
37	BE	215	LEU	2.2
42	BJ	99	LEU	2.2
13	AN	89	ASP	2.2
2	AA	229	A	2.2
2	AA	1325	G	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
51	BS	51	VAL	2.2
4	AD	150	GLY	2.2
38	BF	65	ALA	2.2
40	BH	70	PRO	2.2
43	BK	101	PRO	2.2
46	BN	117	ASN	2.2
50	BR	37	ASN	2.2
17	AR	17	THR	2.2
11	AL	31	HIS	2.2
50	BR	15	PHE	2.2
6	AF	232	LEU	2.2
30	A6	37	LEU	2.2
34	BA	241	C	2.2
50	BR	10	LYS	2.2
8	AH	166	GLU	2.2
9	AI	112	GLU	2.2
21	AV	165	GLU	2.2
38	BF	89	GLU	2.2
41	BI	69	GLU	2.2
11	AL	102	ARG	2.2
6	AF	164	ALA	2.2
21	AV	10	PRO	2.2
2	AA	2387	U	2.2
34	BA	1542	U	2.2
7	AG	44	ILE	2.2
7	AG	57	THR	2.2
21	AV	160	LEU	2.2
2	AA	1806	C	2.2
40	BH	60	TYR	2.2
14	AO	59	GLU	2.2
2	AA	2602	A	2.2
17	AR	25	ASP	2.1
40	BH	138	ALA	2.1
43	BK	106	GLY	2.1
3	AC	17	ASN	2.1
32	A8	15	LYS	2.1
40	BH	31	LEU	2.1
50	BR	36	ILE	2.1
2	AA	1774	C	2.1
2	AA	2461	C	2.1
12	AM	136	SER	2.1
19	AT	77	VAL	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
11	AL	30	GLN	2.1
32	A8	12	ARG	2.1
2	AA	2361	A	2.1
39	BG	183	GLY	2.1
40	BH	104	ALA	2.1
3	AC	55	ASP	2.1
13	AN	93	PRO	2.1
15	AP	130	PRO	2.1
29	A5	7	PRO	2.1
42	BJ	112	PRO	2.1
2	AA	1	G	2.1
21	AV	39	PHE	2.1
26	A2	47	PHE	2.1
37	BE	10	LEU	2.1
10	AK	127	THR	2.1
26	A2	74	TYR	2.1
35	BB	23	A	2.1
47	BO	74	GLY	2.1
23	AX	2	PRO	2.1
10	AK	121	ILE	2.1
40	BH	76	ILE	2.1
40	BH	129	ILE	2.1
46	BN	119	CYS	2.1
5	AE	175	ASP	2.1
5	AE	270	ASP	2.1
2	AA	2194	G	2.1
54	BV	45	VAL	2.1
18	AS	99	ARG	2.1
2	AA	1045	A	2.1
11	AL	82	ALA	2.1
12	AM	77	GLY	2.1
13	AN	26	GLY	2.1
25	A1	68	GLY	2.1
10	AK	19	LYS	2.1
15	AP	104	PRO	2.1
15	AP	134	PHE	2.1
28	A4	11	PRO	2.1
41	BI	45	LEU	2.1
2	AA	836	G	2.1
2	AA	1929	G	2.1
6	AF	97	ASP	2.1
34	BA	1013	G	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
18	AS	59	VAL	2.1
55	BW	41	VAL	2.1
34	BA	1420	C	2.1
35	BB	11	C	2.1
38	BF	126	ARG	2.1
48	BP	125	ARG	2.1
55	BW	80	ARG	2.1
2	AA	1978	A	2.1
2	AA	2077	A	2.1
13	AN	60	ALA	2.1
36	B1	52	A	2.1
41	BI	18	GLN	2.1
8	AH	121	GLU	2.1
42	BJ	124	LEU	2.1
43	BK	127	LEU	2.1
5	AE	213	PRO	2.1
8	AH	7	PRO	2.1
18	AS	80	PRO	2.1
26	A2	4	ILE	2.1
37	BE	194	PRO	2.1
2	AA	728	G	2.1
2	AA	1849	G	2.1
13	AN	37	ASP	2.1
31	A7	1	MET	2.1
36	B1	19	G	2.1
2	AA	531	C	2.1
2	AA	2254	C	2.1
15	AP	59	ASN	2.1
25	A1	87	ASN	2.1
2	AA	1360	A	2.1
19	AT	60	GLY	2.1
26	A2	48	GLY	2.1
39	BG	188	LEU	2.1
41	BI	35	ALA	2.1
44	BL	94	ALA	2.1
50	BR	4	THR	2.1
15	AP	45	GLN	2.1
12	AM	100	SER	2.1
21	AV	138	VAL	2.1
14	AO	95	ASP	2.1
25	A1	111	ASP	2.1
2	AA	1781	C	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	AA	1800	C	2.1
4	AD	164	LEU	2.1
13	AN	76	TYR	2.1
40	BH	88	LYS	2.1
42	BJ	101	LEU	2.1
44	BL	95	LYS	2.1
6	AF	22	PHE	2.1
6	AF	203	ALA	2.1
9	AJ	47	ALA	2.1
25	A1	73	GLY	2.1
35	BB	66	A	2.1
8	AH	22	THR	2.1
15	AP	9	SER	2.1
20	AU	34	GLU	2.1
55	BW	93	GLU	2.1
6	AF	84	VAL	2.1
36	B1	14	U	2.1
46	BN	105	VAL	2.1
31	A7	42	LEU	2.0
34	BA	631	G	2.0
4	AD	63	ILE	2.0
2	AA	1046	A	2.0
36	B1	24	A	2.0
5	AE	320	GLN	2.0
12	AM	25	GLN	2.0
23	AX	16	PRO	2.0
50	BR	83	GLU	2.0
2	AA	1535	U	2.0
2	AA	2208	U	2.0
2	AA	2492	U	2.0
36	B1	23	U	2.0
39	BG	203	VAL	2.0
47	BO	110	VAL	2.0
25	A1	70	ARG	2.0
11	AL	17	LYS	2.0
39	BG	202	LEU	2.0
2	AA	530	G	2.0
2	AA	2655	G	2.0
3	AC	208	PHE	2.0
35	BB	30	G	2.0
3	AC	219	GLY	2.0
2	AA	1528	A	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	AA	1966	A	2.0
22	AW	4	HIS	2.0
34	BA	715	A	2.0
15	AP	128	PRO	2.0
8	AH	113	GLU	2.0
9	AI	113	GLU	2.0
27	A3	29	GLU	2.0
30	A6	29	ARG	2.0
52	BT	15	MET	2.0
14	AO	139	SER	2.0
47	BO	17	LYS	2.0
52	BT	89	LEU	2.0
2	AA	565	C	2.0
2	AA	1793	C	2.0
3	AC	77	ILE	2.0
11	AL	53	ILE	2.0
21	AV	143	ILE	2.0
2	AA	2550	G	2.0
3	AC	124	GLY	2.0
4	AD	151	GLY	2.0
35	BB	53	G	2.0
53	BU	20	ALA	2.0
2	AA	2491	U	2.0
2	AA	2506	U	2.0
4	AD	84	PRO	2.0
36	B1	30	U	2.0
10	AK	20	ASN	2.0
41	BI	75	LEU	2.0
46	BN	106	LYS	2.0
33	A9	28	SER	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 oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.