Full wwPDB X-ray Structure Validation Report ⓘ

Mar 20, 2026 – 09:34 AM UTC

PDB ID	:	4V7W / pdb_00004v7w
Title	:	Structure of the Thermus thermophilus ribosome complexed with chloramphenicol.
Authors	:	Bulkley, D.P.; Innis, C.A.; Blaha, G.; Steitz, T.A.
Deposited on	:	2010-08-16
Resolution	:	3.00 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:

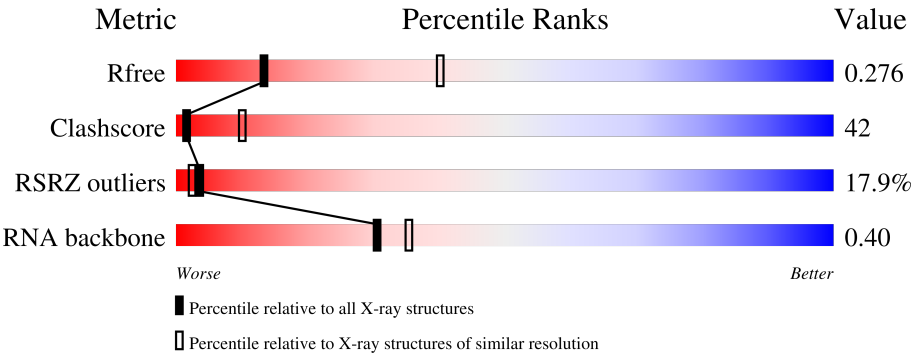
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal 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 3.00 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	2672 (3.00-3.00)
Clashscore	190562	2977 (3.00-3.00)
RSRZ outliers	180081	2671 (3.00-3.00)
RNA backbone	3983	1109 (3.20-2.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments 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 <=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	AA	1522	18% 23% 61% 15%
1	CA	1522	13% 23% 61% 15%
2	AB	256	31% 28% 64% 8%
2	CB	256	19% 29% 62% 8%
3	AC	239	18% 33% 54% 13%
3	CC	239	16% 34% 53% 13%

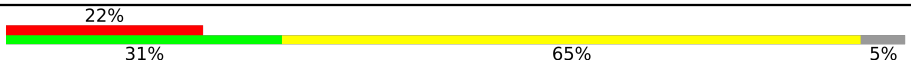
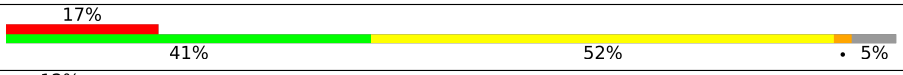
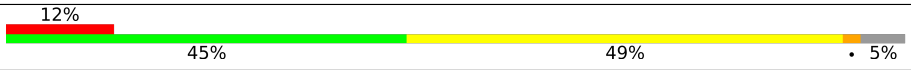
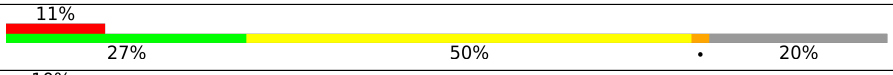
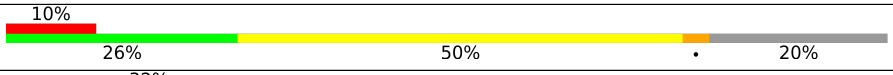
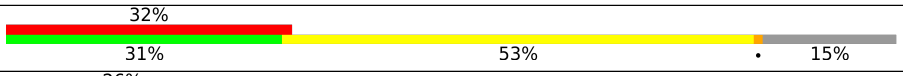
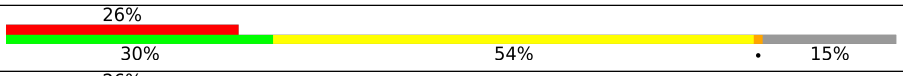
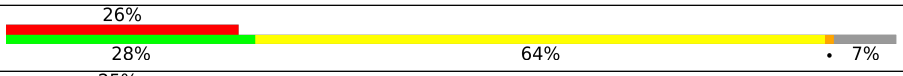
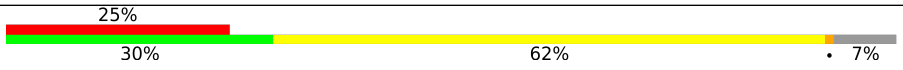
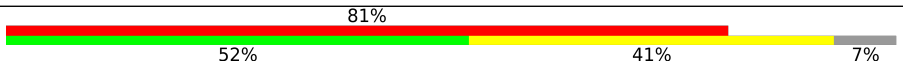
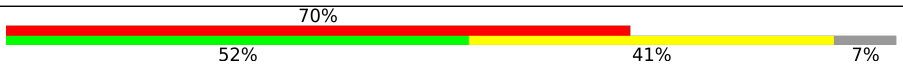
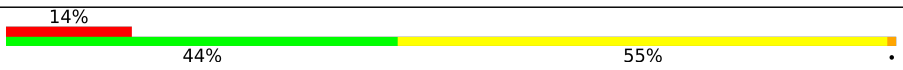
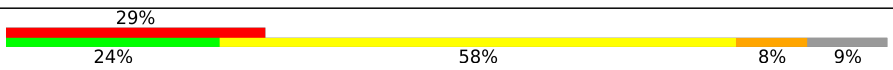
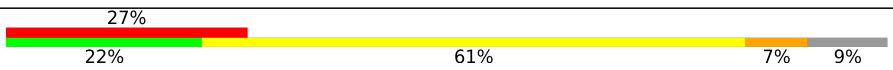
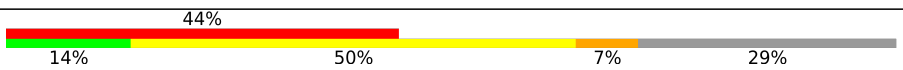
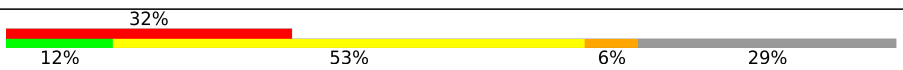
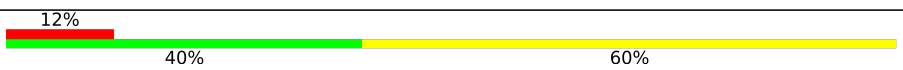
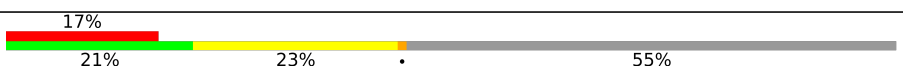
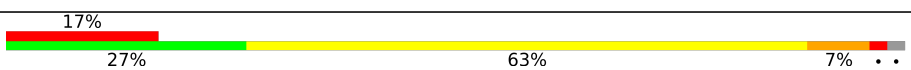
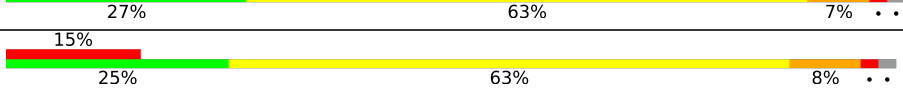
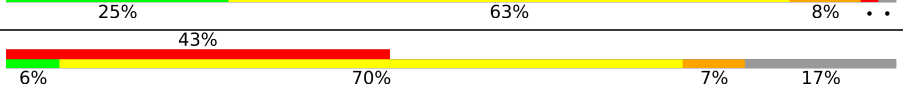
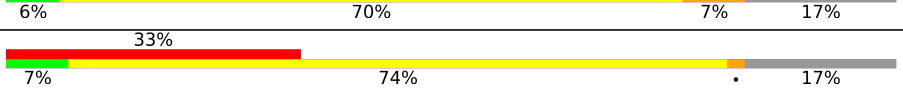
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
4	AD	209	25% 28% 69%
4	CD	209	24% 33% 65%
5	AE	162	9% 36% 54% 7%
5	CE	162	10% 33% 59% 7%
6	AF	101	14% 27% 71%
6	CF	101	15% 26% 74%
7	AG	156	31% 49% 50%
7	CG	156	24% 52% 47%
8	AH	138	11% 38% 61%
8	CH	138	12% 38% 61%
9	AI	128	50% 41% 59%
9	CI	128	38% 41% 59%
10	AJ	105	46% 28% 67% 6%
10	CJ	105	37% 28% 67% 6%
11	AK	129	16% 44% 47% 8%
11	CK	129	17% 43% 49% 8%
12	AL	135	22% 41% 51% 7%
12	CL	135	25% 37% 55% 7%
13	AM	126	47% 29% 61% 9%
13	CM	126	38% 32% 59% 9%
14	AN	61	34% 43% 56%
14	CN	61	46% 41% 57%
15	AO	89	17% 35% 63%
15	CO	89	12% 31% 66%
16	AP	88	23% 32% 64% 5%

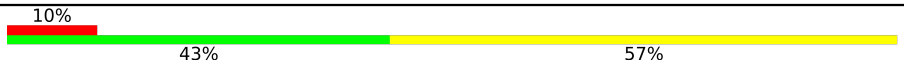
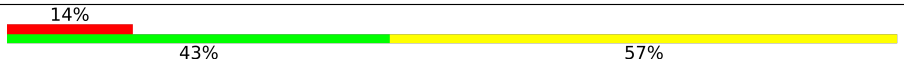
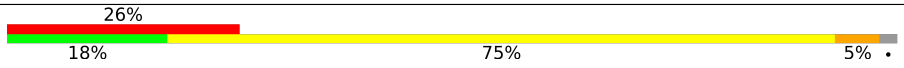
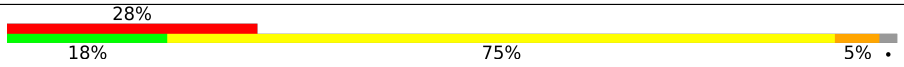
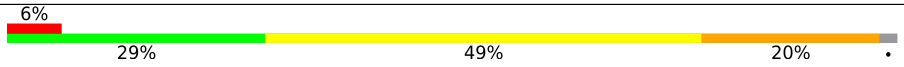
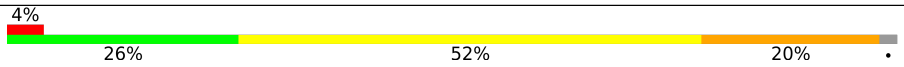
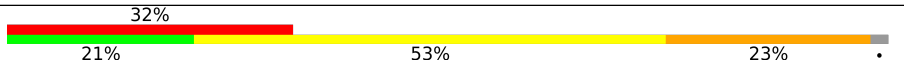
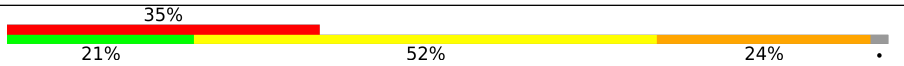
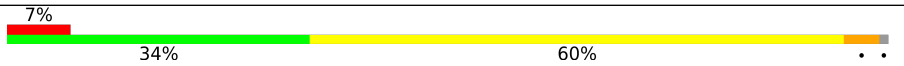
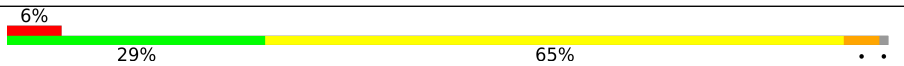
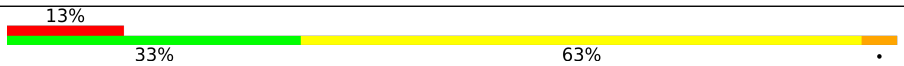
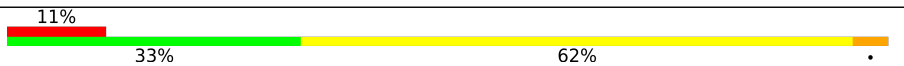
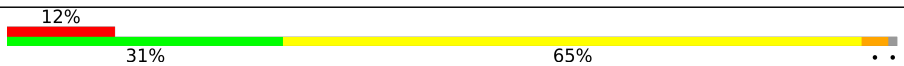
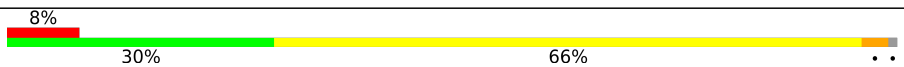
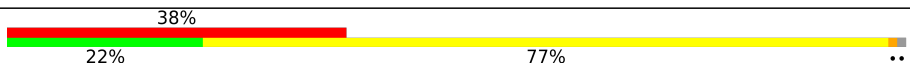
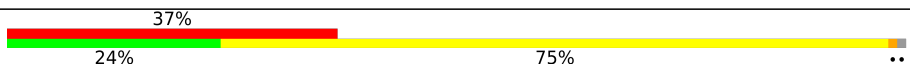
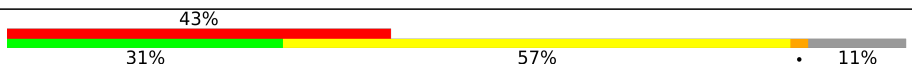
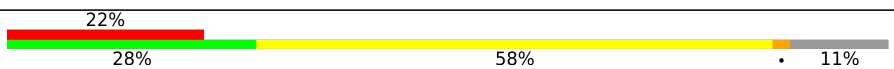
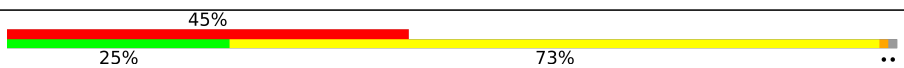
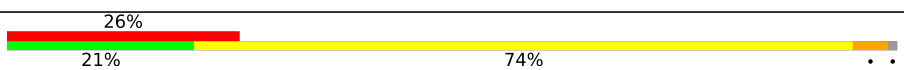
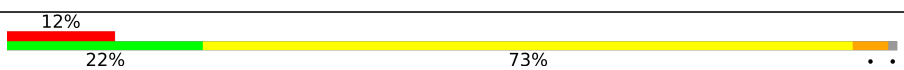
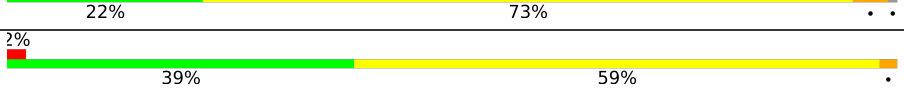
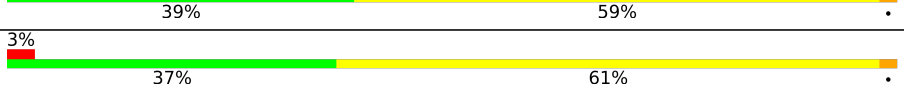
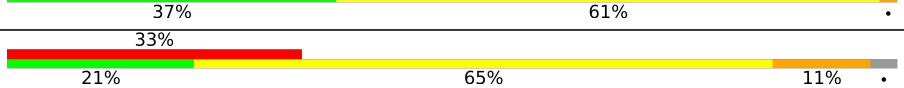
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
16	CP	88	
17	AQ	105	
17	CQ	105	
18	AR	88	
18	CR	88	
19	AS	93	
19	CS	93	
20	AT	106	
20	CT	106	
21	AU	27	
21	CU	27	
22	B0	85	
22	D0	85	
23	B1	98	
23	D1	98	
24	B2	72	
24	D2	72	
25	B3	60	
25	D3	60	
26	B4	71	
26	D4	71	
27	B5	60	
27	D5	60	
28	B6	54	
28	D6	54	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
29	B7	49	
29	D7	49	
30	B8	65	
30	D8	65	
31	BA	2787	
31	DA	2787	
32	BB	122	
32	DB	122	
33	BD	276	
33	DD	276	
34	BE	206	
34	DE	206	
35	BF	210	
35	DF	210	
36	BG	182	
36	DG	182	
37	BH	180	
37	DH	180	
38	BI	148	
38	DI	148	
39	BN	140	
39	DN	140	
40	BO	122	
40	DO	122	
41	BP	150	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
41	DP	150	20% 18% 67% 12%
42	BQ	141	21% 22% 69% 5%
42	DQ	141	14% 18% 72% 5%
43	BR	118	12% 24% 71%
43	DR	118	11% 30% 67%
44	BS	112	38% 22% 63% 12%
44	DS	112	35% 21% 64% 12%
45	BT	146	23% 14% 71% 5% 10%
45	DT	146	20% 14% 70% 5% 10%
46	BU	118	19% 36% 60%
46	DU	118	14% 35% 62%
47	BV	101	52% 16% 75% 9%
47	DV	101	22% 17% 74% 9%
48	BW	113	4% 39% 58%
48	DW	113	2% 32% 64%
49	BX	96	30% 20% 65% 12%
49	DX	96	19% 19% 68% 10%
50	BY	110	48% 20% 65% 7% 8%
50	DY	110	38% 18% 66% 7% 8%
51	BZ	206	28% 27% 55% 14%
51	DZ	206	16% 26% 58% 14%

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
52	MG	CA	1638	-	-	-	X
53	ZN	CD	301	-	-	X	-

2 Entry composition

There are 55 unique types of molecules in this entry. The entry contains 277987 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 16S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1504	Total	C	N	O	P	0	0	0
			32329	14390	5992	10444	1503			
1	CA	1504	Total	C	N	O	P	0	0	0
			32329	14390	5992	10444	1503			

- Molecule 2 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AB	235	Total	C	N	O	S	0	0	1
			1901	1213	342	341	5			
2	CB	235	Total	C	N	O	S	0	0	1
			1901	1213	342	341	5			

- Molecule 3 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AC	207	Total	C	N	O	S	0	0	1
			1613	1016	315	281	1			
3	CC	207	Total	C	N	O	S	0	0	1
			1613	1016	315	281	1			

- Molecule 4 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AD	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			
4	CD	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			

- Molecule 5 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	151	Total	C	N	O	S	0	0	1
			1147	724	218	201	4			
5	CE	151	Total	C	N	O	S	0	0	1
			1147	724	218	201	4			

- Molecule 6 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			
6	CF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

- Molecule 7 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			
7	CG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

- Molecule 8 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			
8	CH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

- Molecule 9 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	AI	127	Total	C	N	O	0	0	0
			1011	639	198	174			
9	CI	127	Total	C	N	O	0	0	0
			1011	639	198	174			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AI	58	ARG	HIS	conflict	UNP P80374
CI	58	ARG	HIS	conflict	UNP P80374

- Molecule 10 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	99	Total	C	N	O	S	0	0	1
			795	499	157	138	1			
10	CJ	99	Total	C	N	O	S	0	0	1
			795	499	157	138	1			

- Molecule 11 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AK	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			
11	CK	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			

- Molecule 12 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AL	125	Total	C	N	O	S	0	0	1
			971	611	196	163	1			
12	CL	125	Total	C	N	O	S	0	0	1
			971	611	196	163	1			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AL	2	VAL	-	insertion	UNP Q5SHN3
AL	3	ALA	-	insertion	UNP Q5SHN3
AL	4	LEU	-	insertion	UNP Q5SHN3
CL	2	VAL	-	insertion	UNP Q5SHN3
CL	3	ALA	-	insertion	UNP Q5SHN3
CL	4	LEU	-	insertion	UNP Q5SHN3

- Molecule 13 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AM	115	Total	C	N	O	S	0	0	0
			921	569	190	160	2			
13	CM	115	Total	C	N	O	S	0	0	0
			921	569	190	160	2			

- Molecule 14 is a protein called 30S ribosomal protein S14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AN	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
14	CN	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 15 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AO	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			
15	CO	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			

- Molecule 16 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AP	84	Total	C	N	O	S	0	0	1
			701	443	140	117	1			
16	CP	84	Total	C	N	O	S	0	0	1
			701	443	140	117	1			

- Molecule 17 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AQ	100	Total	C	N	O	S	0	0	1
			824	528	152	142	2			
17	CQ	100	Total	C	N	O	S	0	0	1
			824	528	152	142	2			

- Molecule 18 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AR	70	Total	C	N	O	0	0	0
			574	367	112	95			
18	CR	70	Total	C	N	O	0	0	0
			574	367	112	95			

- Molecule 19 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AS	79	Total	C	N	O	S	0	0	1
			630	403	115	110	2			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	CS	79	Total	C	N	O	S	0	0	1
			630	403	115	110	2			

- Molecule 20 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AT	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			
20	CT	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AU	25	Total	C	N	O	0	0	1
			209	128	51	30			
21	CU	25	Total	C	N	O	0	0	1
			209	128	51	30			

- Molecule 22 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	B0	85	Total	C	N	O	S	0	0	0
			650	401	137	111	1			
22	D0	85	Total	C	N	O	S	0	0	0
			650	401	137	111	1			

- Molecule 23 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
23	B1	89	Total	C	N	O	0	0	1
			693	435	140	118			
23	D1	89	Total	C	N	O	0	0	1
			693	435	140	118			

- Molecule 24 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	B2	51	Total	C	N	O	S	0	0	1
			421	263	85	72	1			
24	D2	51	Total	C	N	O	S	0	0	1
			421	263	85	72	1			

- Molecule 25 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	B3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			
25	D3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			

- Molecule 26 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	B4	32	Total	C	N	O	0	0	0
			157	93	32	32			
26	D4	32	Total	C	N	O	0	0	0
			157	93	32	32			

- Molecule 27 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	B5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			
27	D5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			

- Molecule 28 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	B6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			
28	D6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			

- Molecule 29 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	B7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			
29	D7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			

- Molecule 30 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			
30	D8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			

- Molecule 31 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BA	2725	Total	C	N	O	P	0	0	0
			58698	26124	10986	18864	2724			
31	DA	2725	Total	C	N	O	P	0	0	0
			58698	26124	10986	18864	2724			

- Molecule 32 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			
32	DB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			

- Molecule 33 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BD	272	Total	C	N	O	S	0	0	1
			2105	1329	417	356	3			
33	DD	272	Total	C	N	O	S	0	0	1
			2105	1329	417	356	3			

- Molecule 34 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BE	205	Total	C	N	O	S	0	0	1
			1564	988	300	270	6			
34	DE	205	Total	C	N	O	S	0	0	1
			1564	988	300	270	6			

- Molecule 35 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BF	208	Total	C	N	O	S	0	0	1
			1624	1035	304	282	3			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	DF	208	Total	C	N	O	S	0	0	1
			1624	1035	304	282	3			

- Molecule 36 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BG	181	Total	C	N	O	S	0	0	0
			1474	942	268	260	4			
36	DG	181	Total	C	N	O	S	0	0	0
			1474	942	268	260	4			

- Molecule 37 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BH	160	Total	C	N	O	S	0	0	1
			1223	773	229	220	1			
37	DH	160	Total	C	N	O	S	0	0	1
			1223	773	229	220	1			

- Molecule 38 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BI	146	Total	C	N	O	S	0	0	1
			1132	723	201	207	1			
38	DI	146	Total	C	N	O	S	0	0	1
			1132	723	201	207	1			

- Molecule 39 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	BN	139	Total	C	N	O	S	0	0	1
			1105	712	207	182	4			
39	DN	139	Total	C	N	O	S	0	0	1
			1105	712	207	182	4			

- Molecule 40 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BO	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			
40	DO	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

- Molecule 41 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			
41	DP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			

- Molecule 42 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BQ	136	Total	C	N	O	S	0	0	0
			1080	688	204	183	5			
42	DQ	136	Total	C	N	O	S	0	0	0
			1080	688	204	183	5			

- Molecule 43 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
43	BR	117	Total	C	N	O	0	0	0
			960	599	202	159			
43	DR	117	Total	C	N	O	0	0	0
			960	599	202	159			

- Molecule 44 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	BS	99	Total	C	N	O	0	0	1
			771	486	155	130			
44	DS	99	Total	C	N	O	0	0	1
			771	486	155	130			

- Molecule 45 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BT	132	Total	C	N	O	S	0	0	0
			1100	686	227	186	1			
45	DT	132	Total	C	N	O	S	0	0	0
			1100	686	227	186	1			

- Molecule 46 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BU	117	Total	C	N	O	S	0	0	0
			958	604	202	151	1			
46	DU	117	Total	C	N	O	S	0	0	0
			958	604	202	151	1			

- Molecule 47 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BV	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			
47	DV	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			

- Molecule 48 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	BW	113	Total	C	N	O	S	0	0	0
			896	563	176	155	2			
48	DW	113	Total	C	N	O	S	0	0	0
			896	563	176	155	2			

- Molecule 49 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	BX	93	Total	C	N	O	0	0	1
			726	471	132	123			
49	DX	93	Total	C	N	O	0	0	1
			726	471	132	123			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	BY	101	Total	C	N	O	S	0	0	1
			776	500	149	123	4			
50	DY	101	Total	C	N	O	S	0	0	1
			776	500	149	123	4			

- Molecule 51 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	BZ	177	Total	C	N	O	S	0	0	1
			1404	897	253	252	2			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	DZ	177	Total	C	N	O	S	0	0	1
			1404	897	253	252	2			

- Molecule 52 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
52	AA	56	Total	Mg	0	0
			56	56		
52	B1	1	Total	Mg	0	0
			1	1		
52	B5	2	Total	Mg	0	0
			2	2		
52	BA	368	Total	Mg	0	0
			368	368		
52	BB	7	Total	Mg	0	0
			7	7		
52	BD	1	Total	Mg	0	0
			1	1		
52	BE	1	Total	Mg	0	0
			1	1		
52	BF	1	Total	Mg	0	0
			1	1		
52	BP	2	Total	Mg	0	0
			2	2		
52	BQ	2	Total	Mg	0	0
			2	2		
52	BR	2	Total	Mg	0	0
			2	2		
52	BU	1	Total	Mg	0	0
			1	1		
52	BX	1	Total	Mg	0	0
			1	1		
52	CA	53	Total	Mg	0	0
			53	53		
52	D1	1	Total	Mg	0	0
			1	1		
52	D5	2	Total	Mg	0	0
			2	2		
52	DA	332	Total	Mg	0	0
			332	332		
52	DB	4	Total	Mg	0	0
			4	4		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
52	DD	1	Total Mg 1 1	0	0
52	DE	1	Total Mg 1 1	0	0
52	DF	1	Total Mg 1 1	0	0
52	DP	1	Total Mg 1 1	0	0
52	DQ	1	Total Mg 1 1	0	0
52	DR	1	Total Mg 1 1	0	0
52	DU	1	Total Mg 1 1	0	0
52	DX	1	Total Mg 1 1	0	0

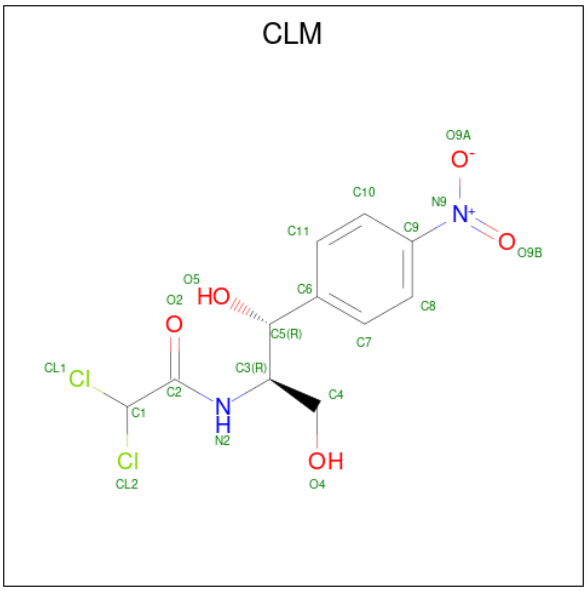
- Molecule 53 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
53	AD	1	Total Zn 1 1	0	0
53	AN	1	Total Zn 1 1	0	0
53	CD	1	Total Zn 1 1	0	0
53	CN	1	Total Zn 1 1	0	0

- Molecule 54 is POTASSIUM ION (CCD ID: K) (formula: K).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
54	BA	1	Total K 1 1	0	0
54	DA	1	Total K 1 1	0	0

- Molecule 55 is CHLORAMPHENICOL (CCD ID: CLM) (formula: $C_{11}H_{12}Cl_2N_2O_5$).



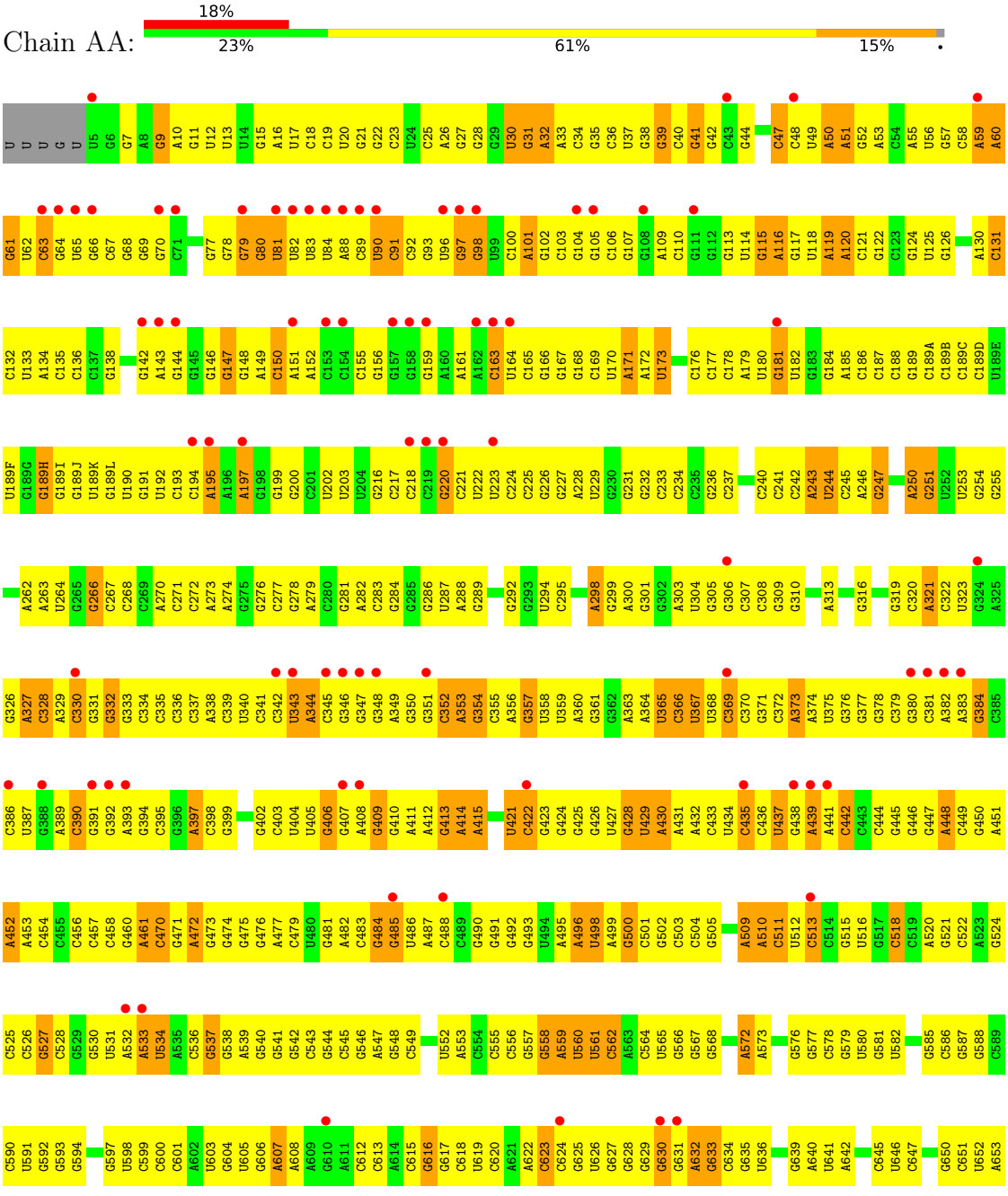
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
55	BA	1	Total	C	Cl	N	O	0	0
			20	11	2	2	5		
55	DA	1	Total	C	Cl	N	O	0	0
			20	11	2	2	5		

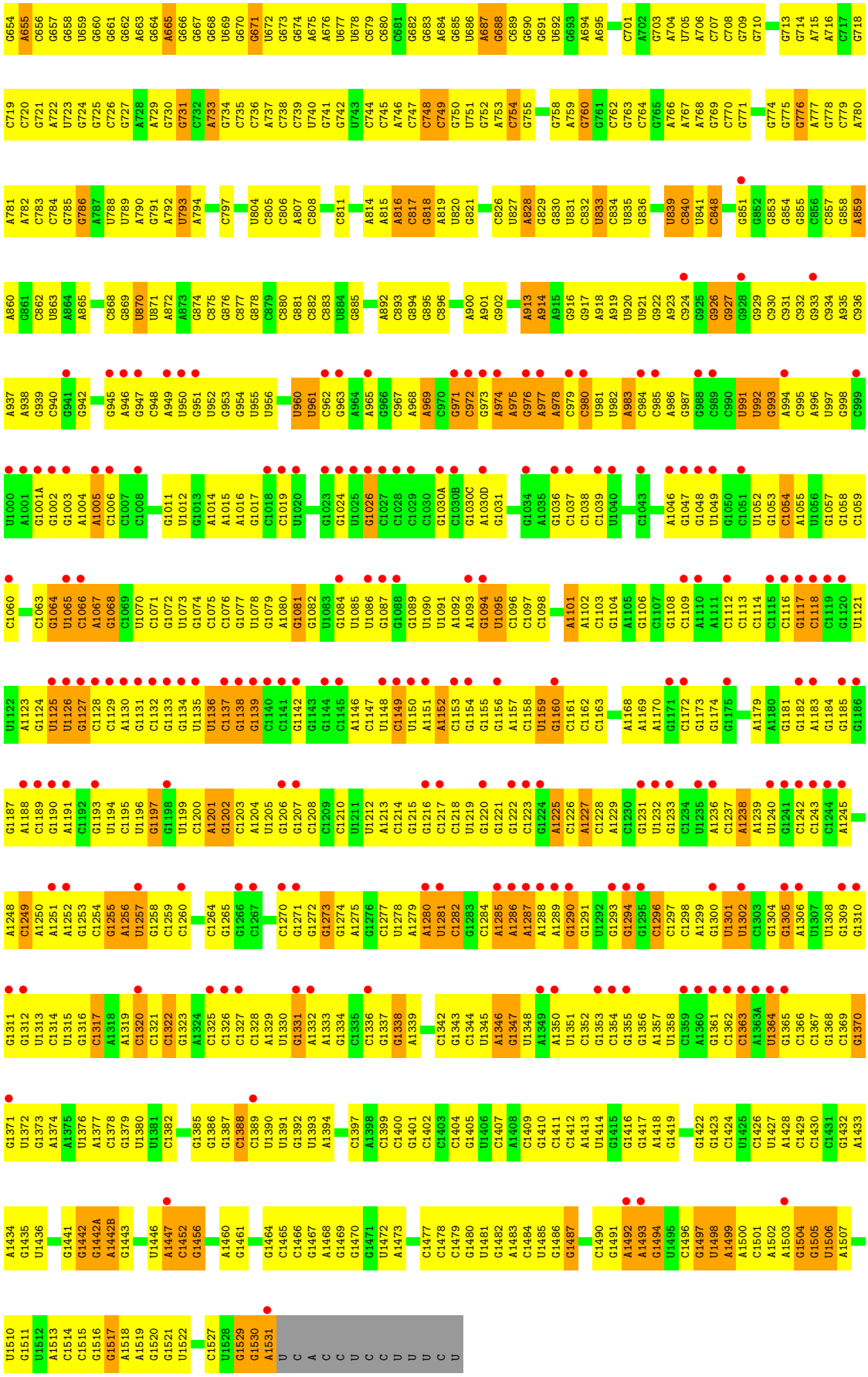
3 Residue-property plots (i)

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

- Molecule 1: 16S rRNA

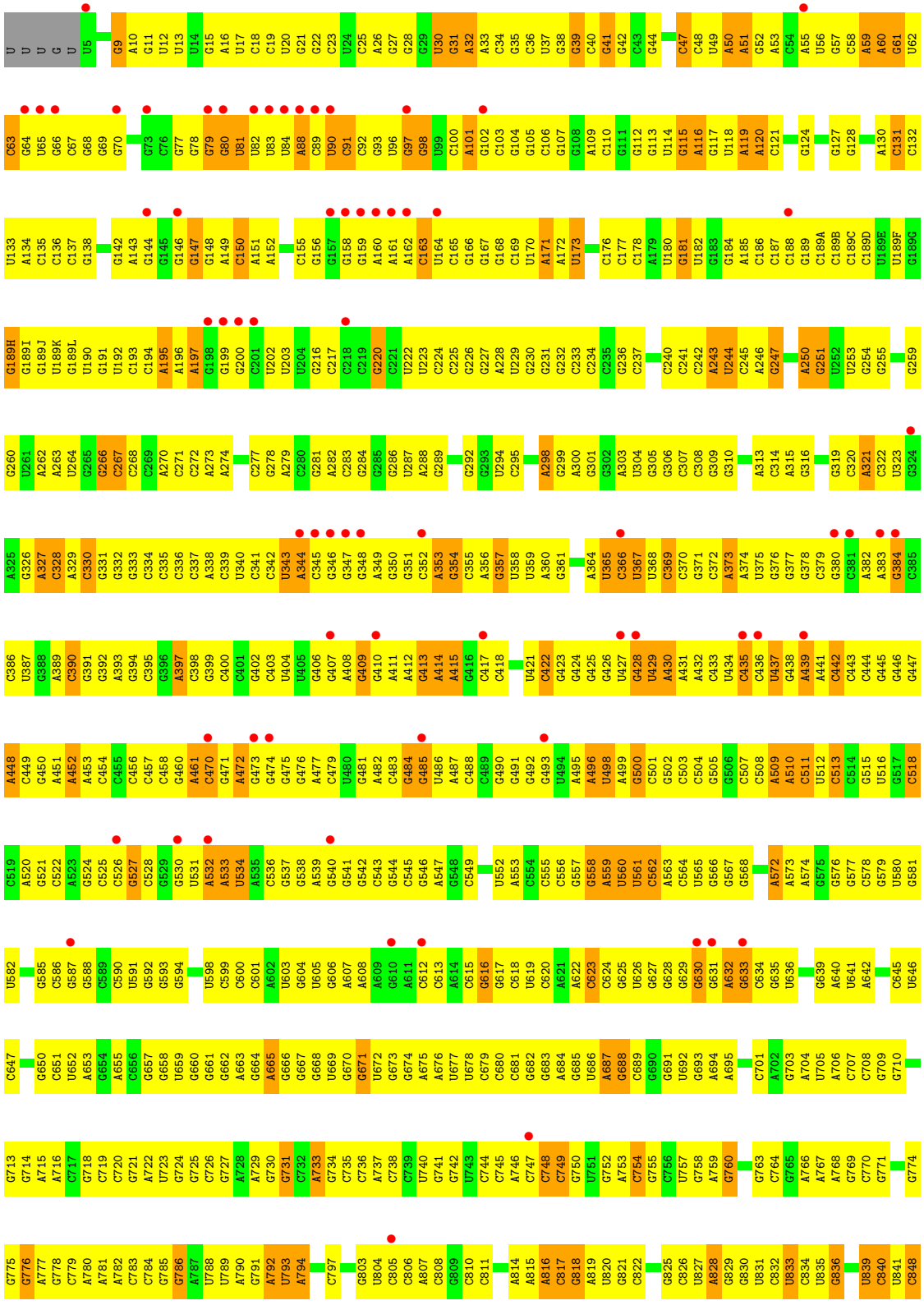
Chain AA:

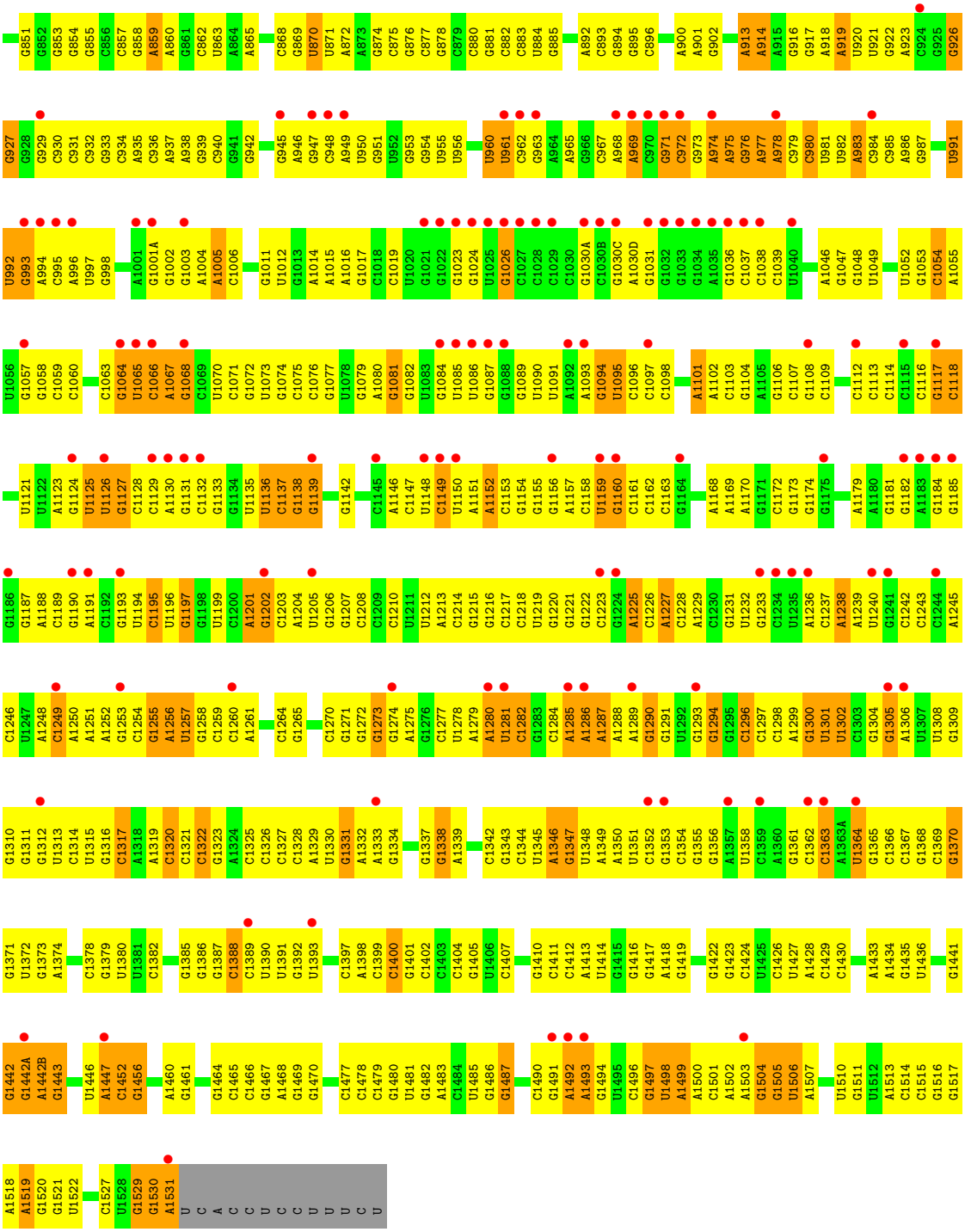



G654 A655 C656 G657 G658 U659 G660 G661 G662 A663 G664 A665 G666 G667 G668 U669 G670 G671 U672 G673 G674 A675 A676 U677 U678 C679 C680 C681 G682 G683 A684 G685 U686 A687 G688 C689 G690 G691 U692 G693 A694 A695 C701 A702 G703 A704 U705 A706 C707 C708 G709 G710 G713 G714 A715 A716 C717 G718
C719 C720 G721 A722 U723 G724 G725 C726 G727 A728 A729 G730 G731 C732 A733 G734 C735 C736 A737 C738 C739 U740 G741 G742 U743 C744 C745 A746 C747 C748 C749 G750 U751 G752 A753 C754 G755 G758 A759 G760 G761 C762 G763 C764 G765 A766 A767 A768 G769 C770 G771 G774 G775 G776 A777 G778 C779 A780
A781 A782 C783 C784 G785 G786 A787 U788 U789 A790 G791 A792 U793 A794 C797 U804 C805 C806 A807 C808 C811 A814 A815 A816 C817 G818 A819 U820 G821 C826 U827 A828 G829 G830 U831 C832 U833 C834 U835 G836 U839 C840 U841 C848 G851 G852 G853 G854 G855 C856 C857 G858 A859
A860 G861 C862 U863 A864 A865 C868 G869 U870 U871 A872 A873 G874 C875 G876 C877 G878 C879 C880 G881 C882 C883 U884 G885 A892 C893 G894 G895 C896 A900 A901 G902 A913 A914 A915 G916 G917 A918 A919 U920 U921 G922 A923 C924 G925 G926 G927 G928 G929 C930 C931 G932 G933 C934 A935 C936
A937 A938 G939 C940 G941 G942 G945 A946 G947 C948 A949 U950 G951 U952 G953 G954 U955 U956 U960 U961 C962 G963 A964 A965 G966 C967 A968 A969 C970 G971 C972 G973 A974 A975 G976 A977 A978 C979 C980 U981 U982 A983 C984 C985 A986 G987 G988 C989 C990 U991 U992 G993 A994 C995 A996 U997 G998 C999
U1000 A1001 G1001A G1002 G1003 A1004 A1005 C1006 C1007 C1008 G1011 U1012 G1013 A1014 A1015 A1016 G1017 C1018 C1019 U1020 G1023 G1024 U1025 G1026 C1027 C1028 C1029 C1030 G1030A C1030B G1030C A1030D G1031 G1034 A1035 G1036 C1037 C1038 C1039 U1040 C1043 A1046 G1047 G1048 U1049 G1050 C1051 U1052 G1053 C1054 A1055 U1056 G1057 G1058 C1059
C1060 C1063 G1064 U1065 C1066 A1067 G1068 C1069 U1070 C1071 G1072 U1073 G1074 C1075 C1076 G1077 U1078 G1079 A1080 G1081 G1082 U1083 G1084 U1085 U1086 G1087 G1088 G1089 U1090 U1091 A1092 A1093 G1094 U1095 C1096 C1097 C1098 A1101 A1102 C1103 G1104 A1105 G1106 C1107 G1108 C1109 A1110 A1111 C1112 C1113 C1114 C1115 C1116 G1117 C1118 G1119 G1120 U1121
U1122 A1123 G1124 U1125 U1126 G1127 C1128 C1129 A1130 G1131 C1132 G1133 G1134 U1135 U1136 C1137 G1138 G1139 C1140 C1141 G1142 G1143 G1144 C1145 A1146 C1147 U1148 C1149 U1150 A1151 A1152 C1153 G1154 G1155 G1156 A1157 C1158 U1159 G1160 C1161 C1162 C1163 A1168 A1169 A1170 G1171 C1172 G1173 G1174 G1175 A1179 A1180 G1181 G1182 A1183 G1184 G1185 G1186
G1187 A1188 C1189 G1190 A1191 C1192 G1193 U1194 C1195 U1196 G1197 G1198 U1199 C1200 A1201 G1202 C1203 A1204 U1205 G1206 G1207 C1208 C1209 C1210 U1211 U1212 A1213 C1214 G1215 G1216 C1217 C1218 U1219 G1220 G1221 G1222 C1223 G1224 A1225 C1226 A1227 C1228 A1229 C1230 G1231 U1232 G1233 C1234 U1235 A1236 C1237 A1238 A1239 U1240 G1241 C1242 C1243 C1244 A1245
A1248 C1249 A1250 A1251 A1252 G1253 C1254 G1255 A1256 U1257 G1258 C1259 C1260 C1264 G1265 G1266 C1267 C1270 G1271 G1272 G1273 G1274 A1275 G1276 C1277 U1278 A1279 A1280 U1281 C1282 G1283 C1284 A1285 A1286 A1287 A1288 A1289 G1290 G1291 U1292 G1293 G1294 G1295 C1296 C1297 C1298 A1299 G1300 U1301 U1302 C1303 G1304 G1305 A1306 U1307 U1308 G1309 G1310
G1311 G1312 U1313 C1314 U1315 G1316 C1317 A1318 A1319 C1320 C1321 C1322 G1323 A1324 C1325 C1326 C1327 C1328 A1329 U1330 G1331 A1332 A1333 G1334 C1335 C1336 G1337 G1338 A1339 C1342 G1343 C1344 U1345 A1346 G1347 U1348 A1349 A1350 U1351 C1352 G1353 C1354 G1355 G1356 A1357 U1358 C1359 A1360 G1361 C1362 C1363 A1363A U1364 G1365 C1366 C1367 G1368 G1369 G1370
G1371 U1372 G1373 A1374 A1375 U1376 A1377 C1378 G1379 U1380 U1381 C1382 G1385 G1386 G1387 C1388 C1389 U1390 U1391 G1392 U1393 A1394 C1397 A1398 C1399 C1400 G1401 C1402 C1403 C1404 C1405 U1406 C1407 A1408 C1409 C1410 C1411 C1412 A1413 U1414 G1415 G1416 G1417 A1418 G1419 G1422 G1423 C1424 U1425 C1426 U1427 A1428 C1430 C1431 G1432 A1433
A1434 G1435 U1436 G1441 G1442 G1442A A1442B G1443 U1446 A1447 C1452 G1456 A1460 G1461 G1464 C1465 C1466 G1467 A1468 G1469 G1470 G1471 U1472 A1473 C1477 C1478 C1479 G1480 U1481 G1482 A1483 C1484 U1485 G1486 G1487 C1490 G1491 A1492 A1493 G1494 U1496 C1496 G1497 U1498 A1499 A1500 C1501 A1502 A1503 G1504 G1505 U1506 A1507
U1510 G1511 U1512 A1513 C1514 C1515 G1516 G1517 A1518 A1519 G1520 G1521 U1522 C1527 U1528 G1529 G1530 A1531 U C A C U C C U U U C U

• Molecule 1: 16S rRNA

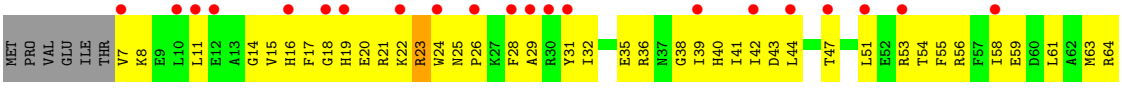
Chain CA:

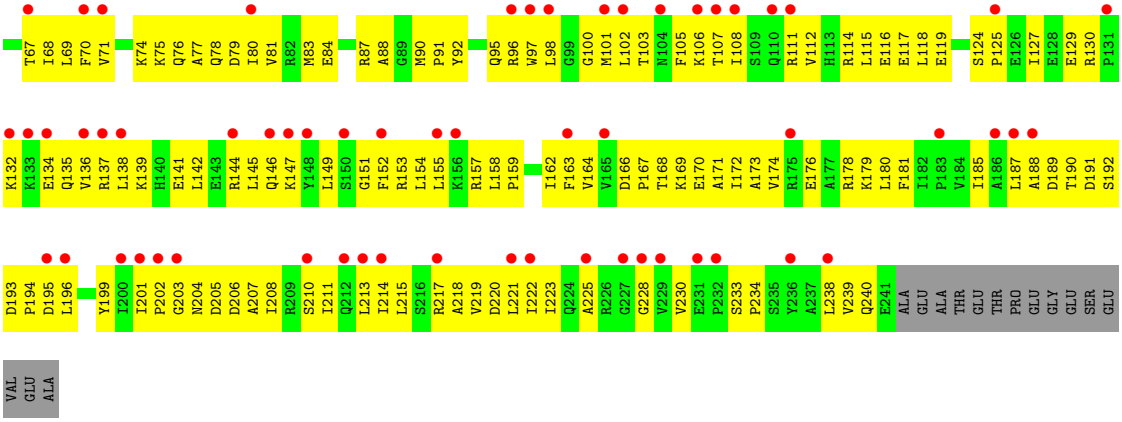




• Molecule 2: 30S ribosomal protein S2

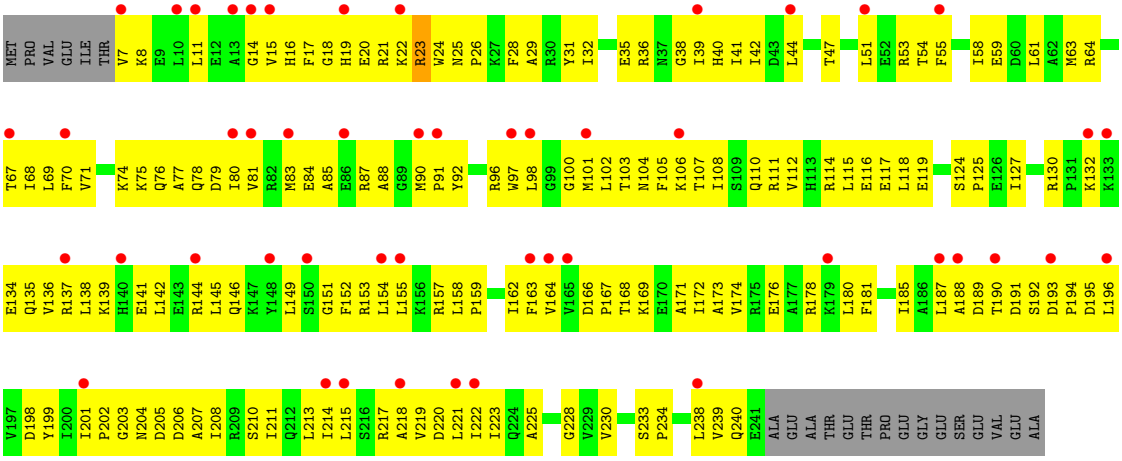
Chain AB:





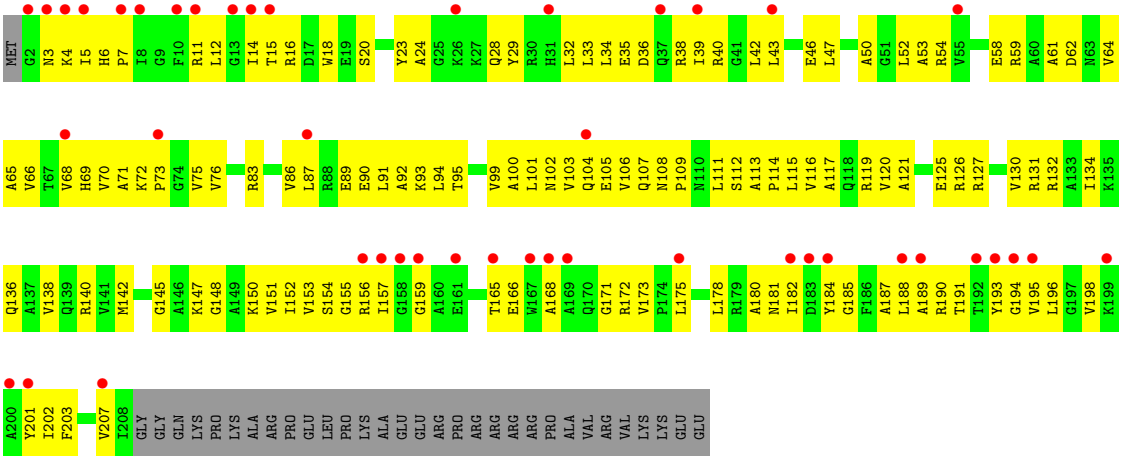
• Molecule 2: 30S ribosomal protein S2

Chain CB:



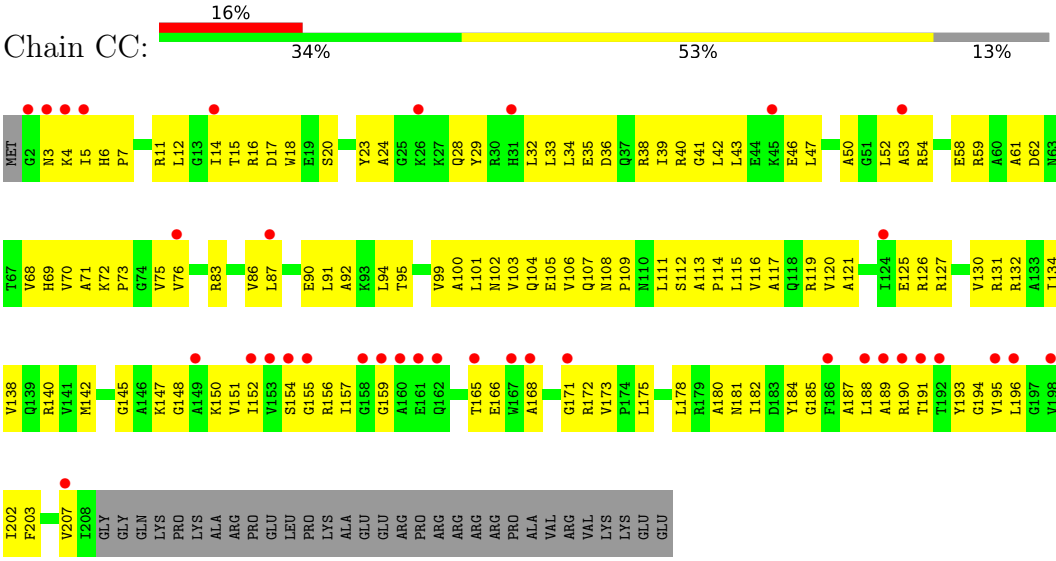
• Molecule 3: 30S ribosomal protein S3

Chain AC:



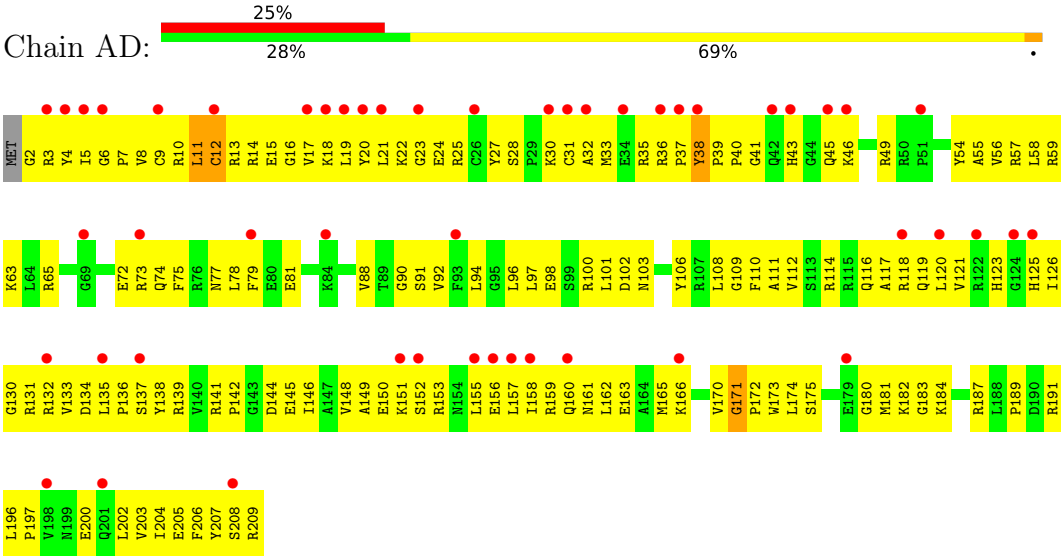
• Molecule 3: 30S ribosomal protein S3

Chain CC:



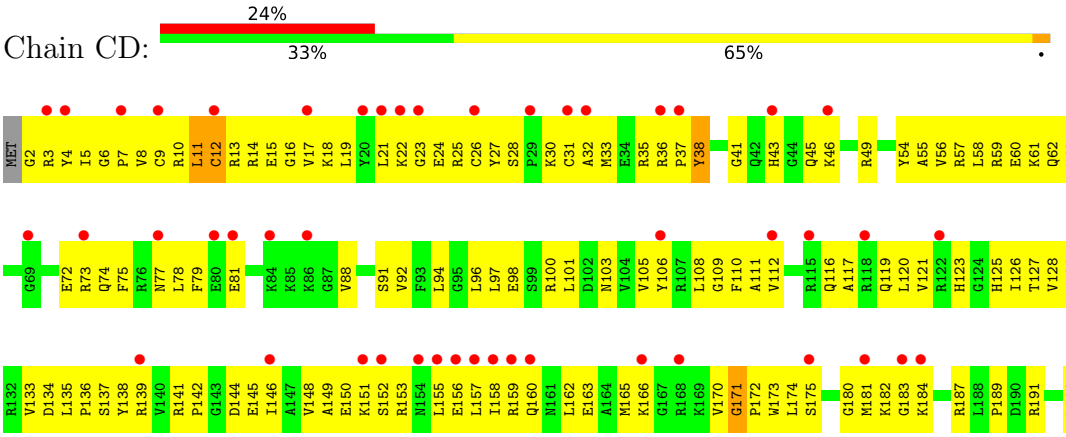
• Molecule 4: 30S ribosomal protein S4

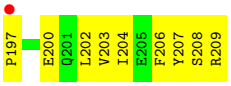
Chain AD:



• Molecule 4: 30S ribosomal protein S4

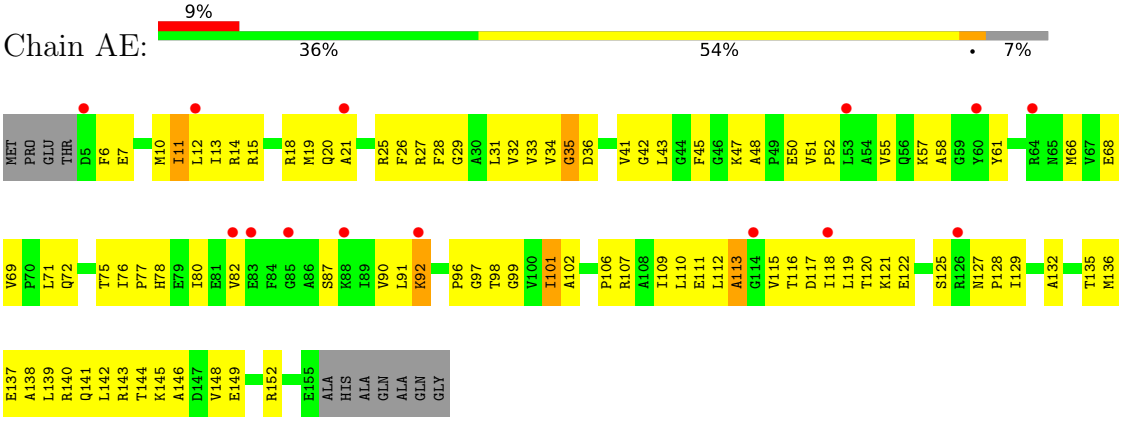
Chain CD:





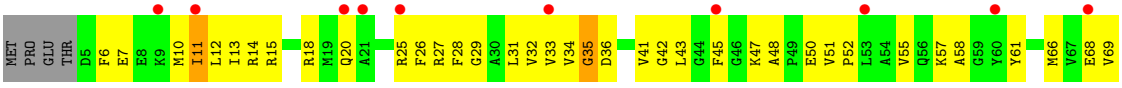
• Molecule 5: 30S ribosomal protein S5

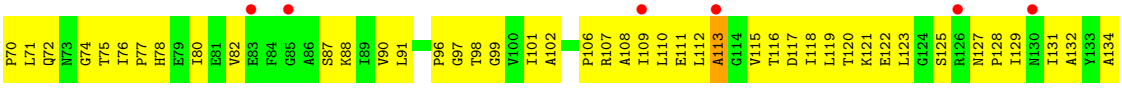
Chain AE:

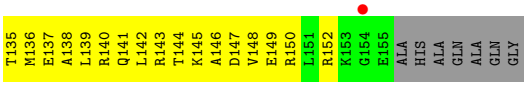


• Molecule 5: 30S ribosomal protein S5

Chain CE:

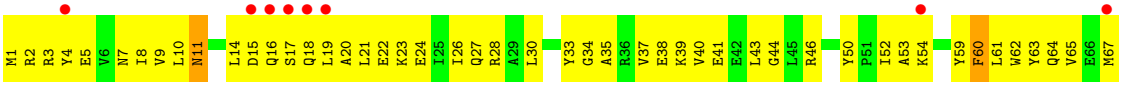


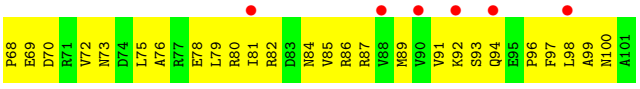




• Molecule 6: 30S ribosomal protein S6

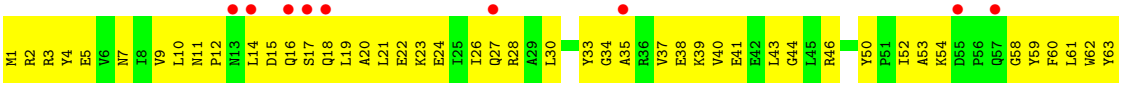
Chain AF:

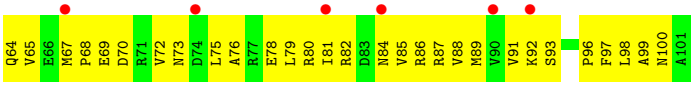




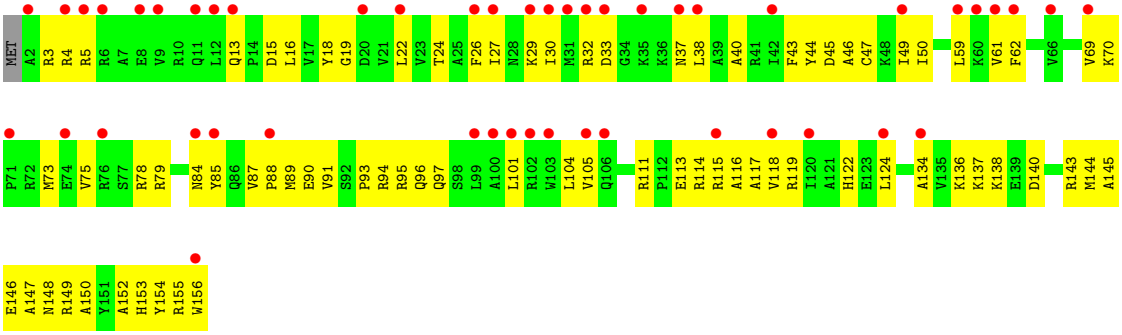
• Molecule 6: 30S ribosomal protein S6

Chain CF:

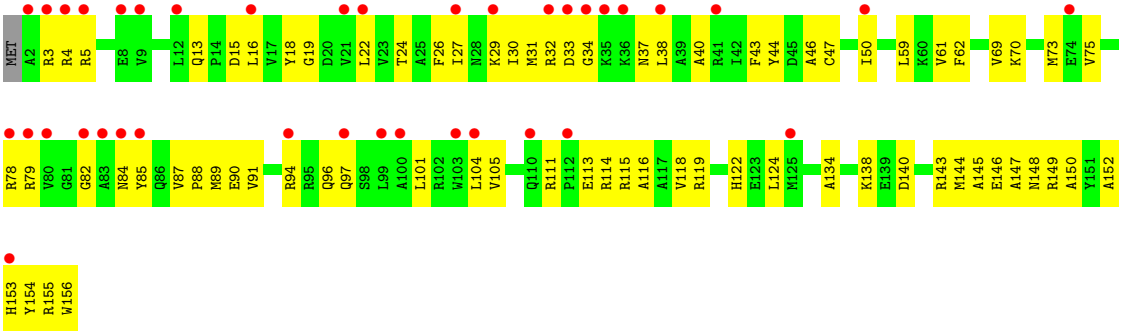




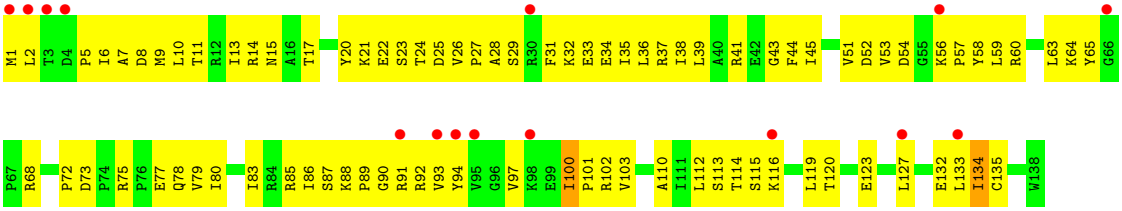
• Molecule 7: 30S ribosomal protein S7



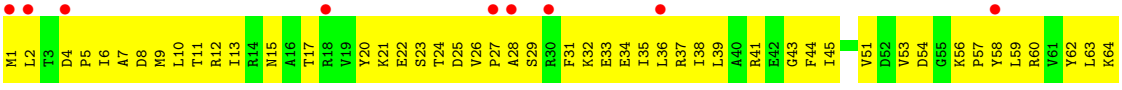
• Molecule 7: 30S ribosomal protein S7

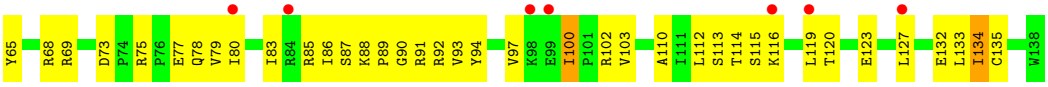


• Molecule 8: 30S ribosomal protein S8

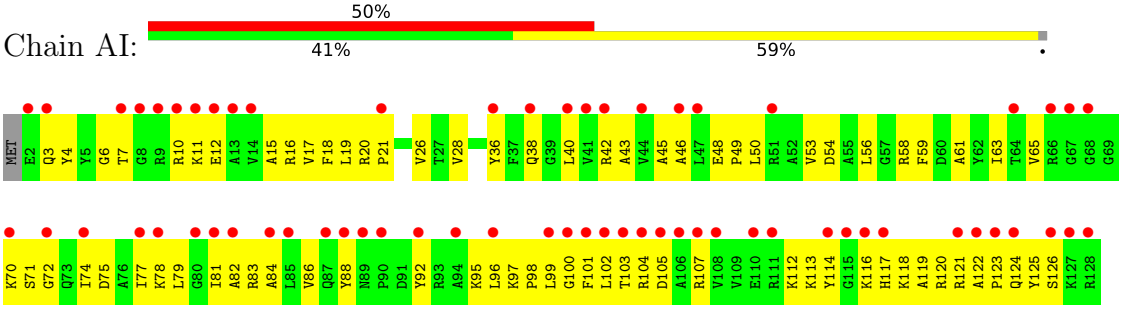


• Molecule 8: 30S ribosomal protein S8

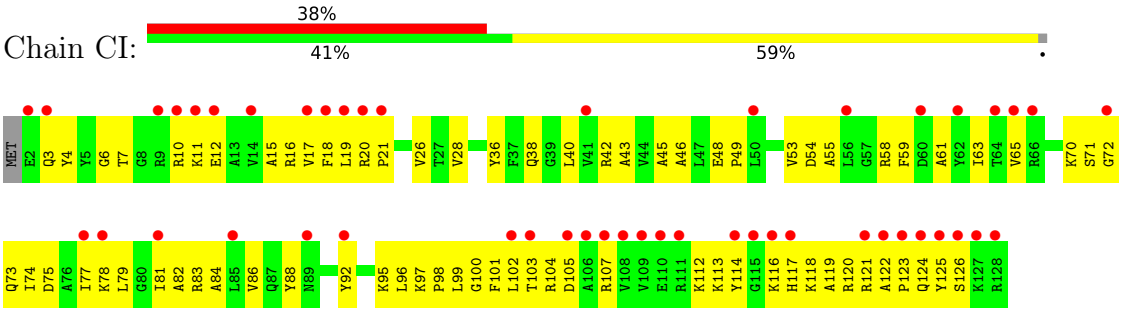




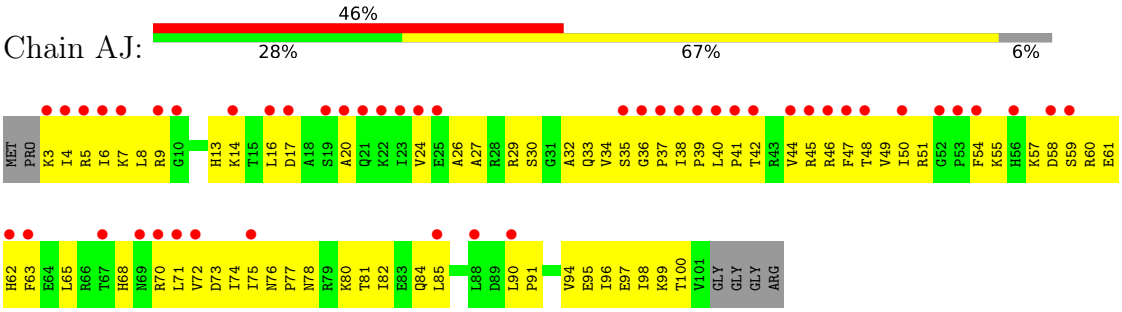
• Molecule 9: 30S ribosomal protein S9



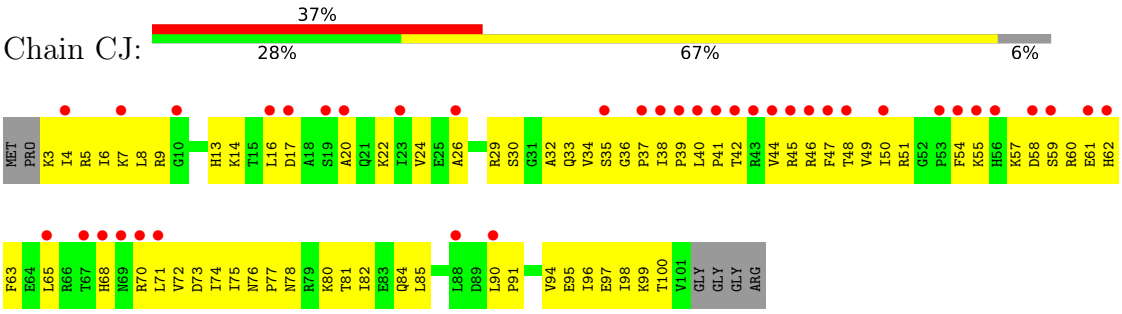
• Molecule 9: 30S ribosomal protein S9



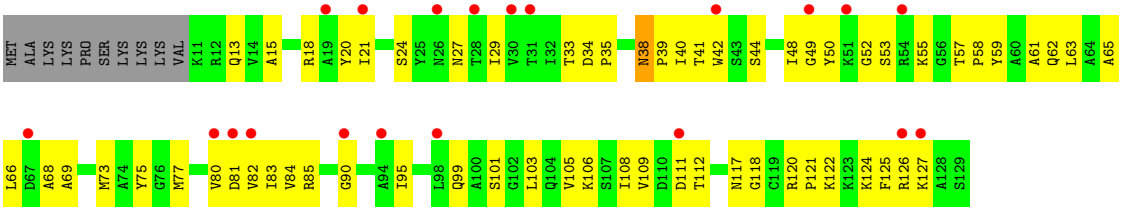
• Molecule 10: 30S ribosomal protein S10

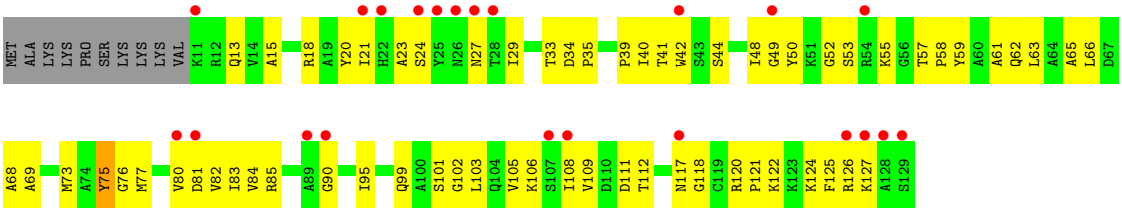


• Molecule 10: 30S ribosomal protein S10



• Molecule 11: 30S ribosomal protein S11



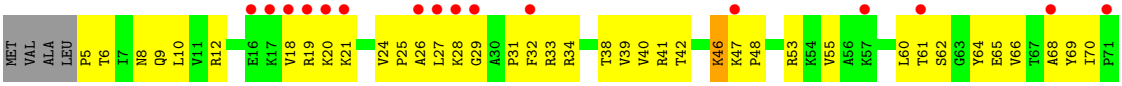


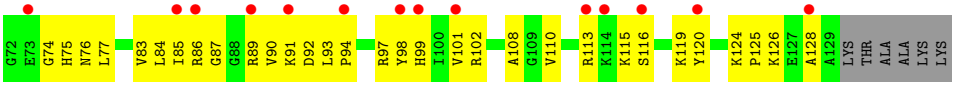
• Molecule 11: 30S ribosomal protein S11

Chain CK:

• Molecule 12: 30S ribosomal protein S12

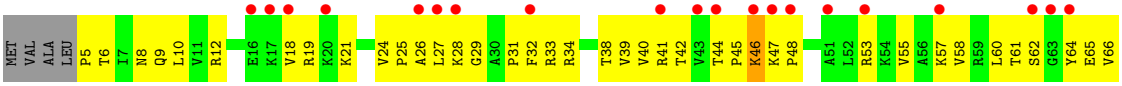
Chain AL:

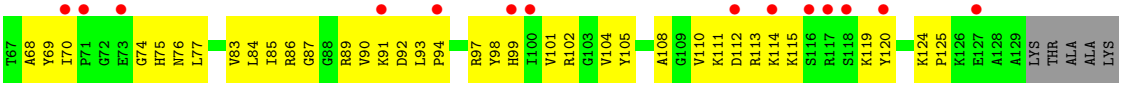




• Molecule 12: 30S ribosomal protein S12

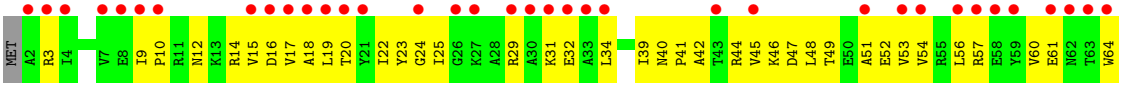
Chain CL:

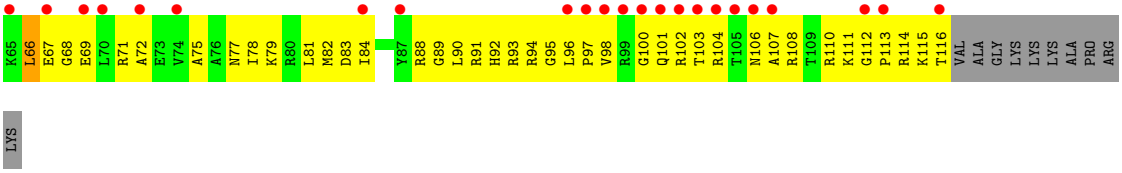




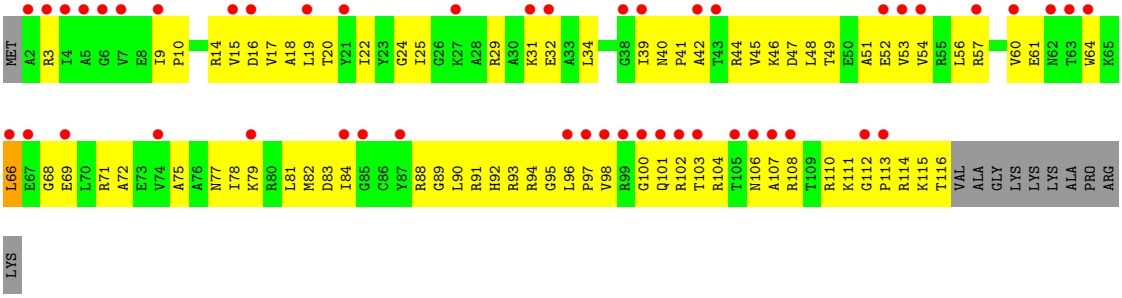
• Molecule 13: 30S ribosomal protein S13

Chain AM:

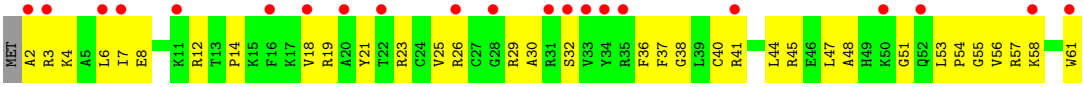




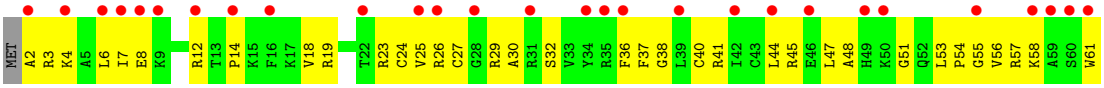
• Molecule 13: 30S ribosomal protein S13



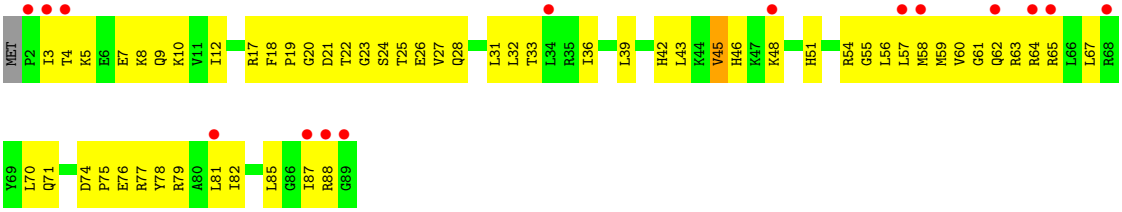
• Molecule 14: 30S ribosomal protein S14



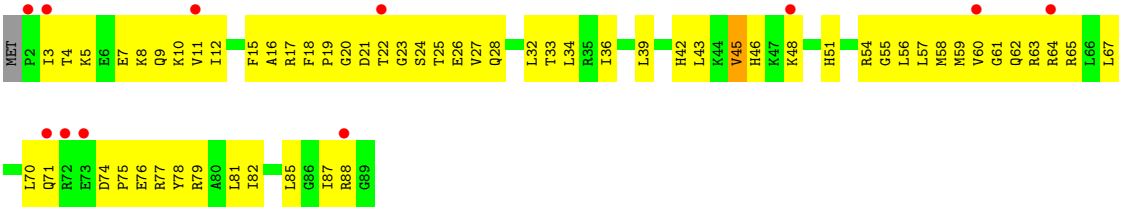
• Molecule 14: 30S ribosomal protein S14



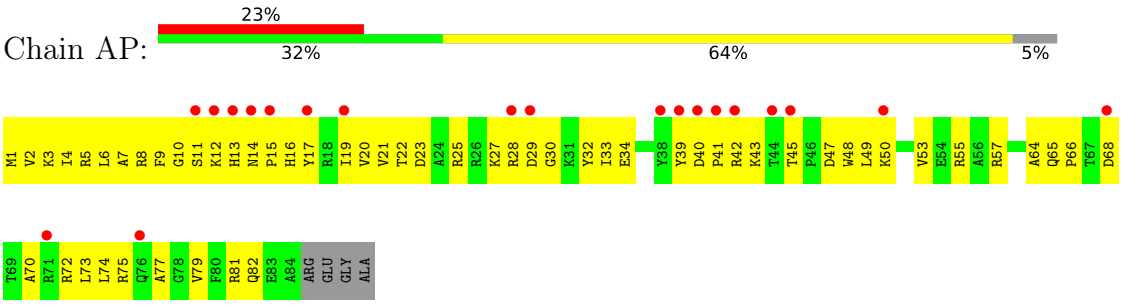
• Molecule 15: 30S ribosomal protein S15



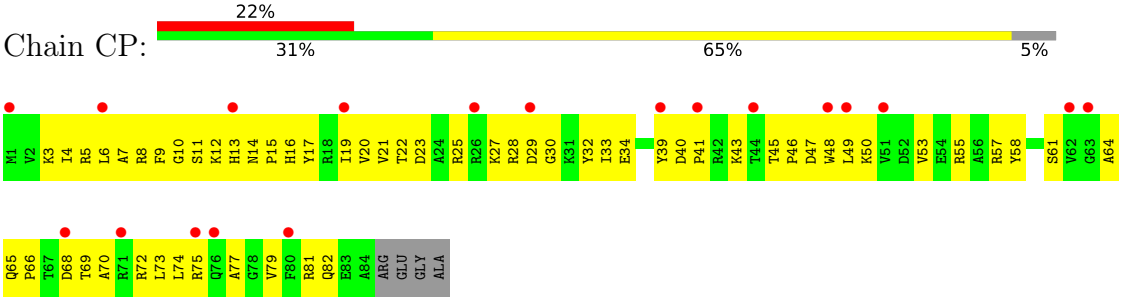
• Molecule 15: 30S ribosomal protein S15



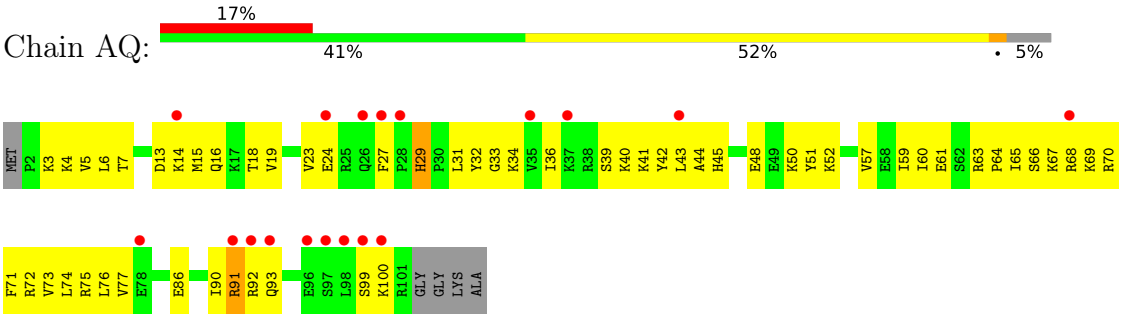
• Molecule 16: 30S ribosomal protein S16



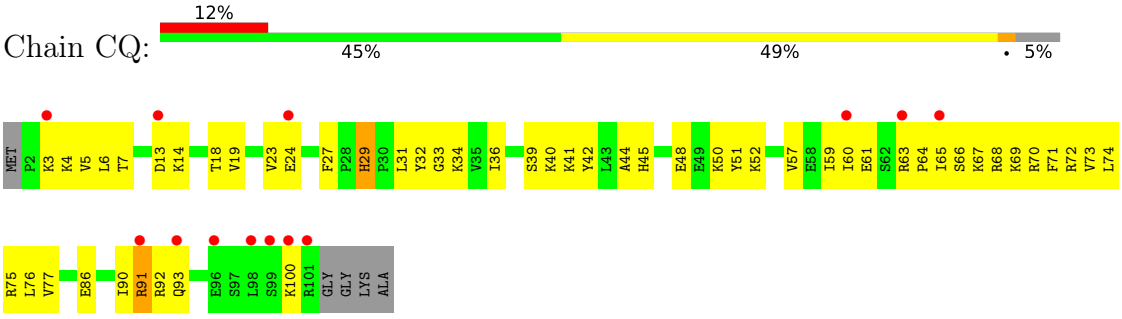
• Molecule 16: 30S ribosomal protein S16



• Molecule 17: 30S ribosomal protein S17

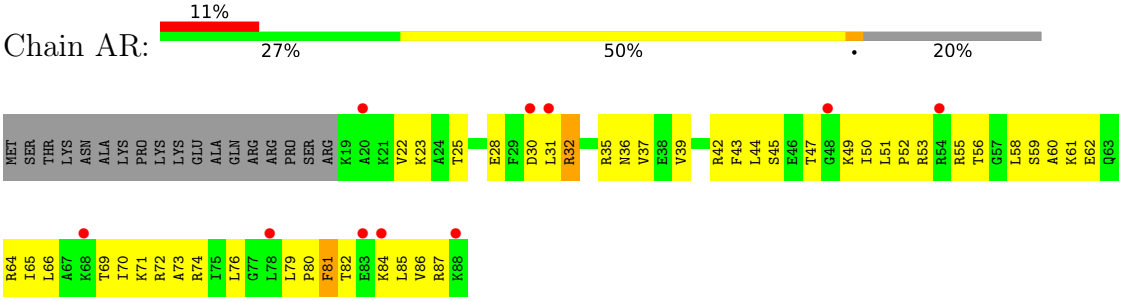


• Molecule 17: 30S ribosomal protein S17



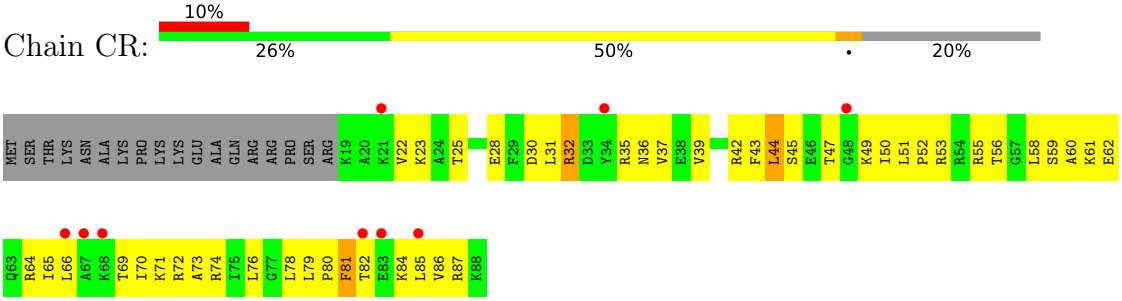
• Molecule 18: 30S ribosomal protein S18

Chain AR:



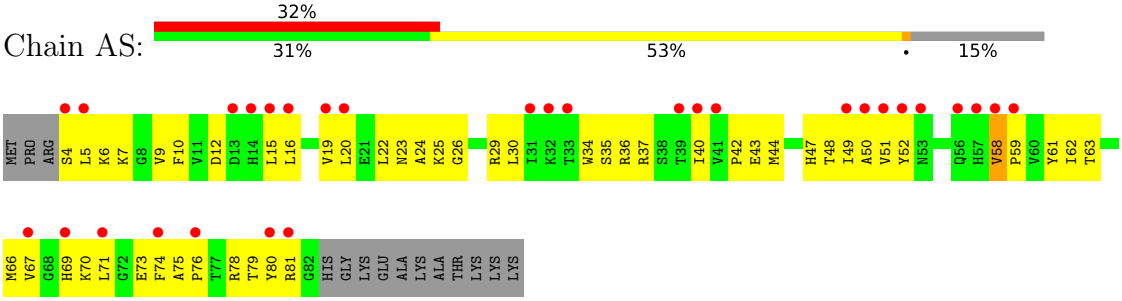
• Molecule 18: 30S ribosomal protein S18

Chain CR:



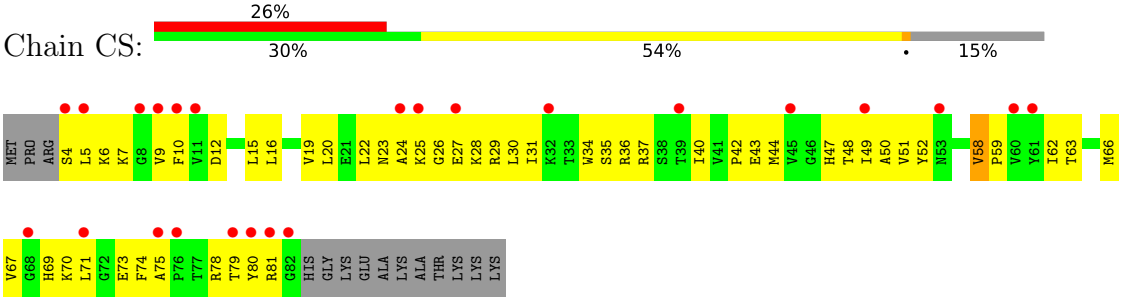
• Molecule 19: 30S ribosomal protein S19

Chain AS:



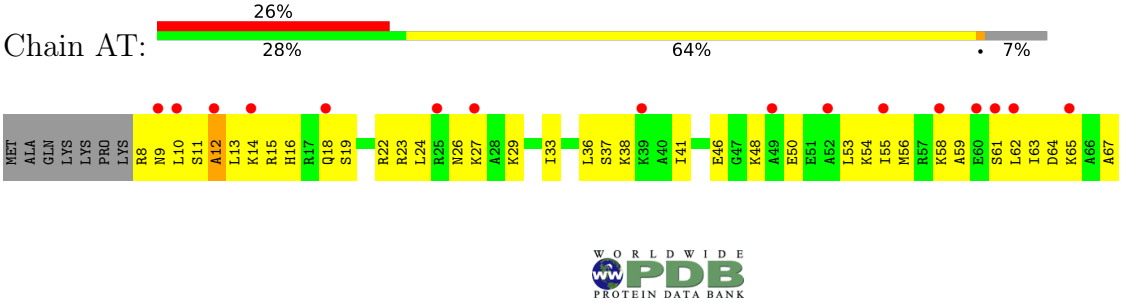
• Molecule 19: 30S ribosomal protein S19

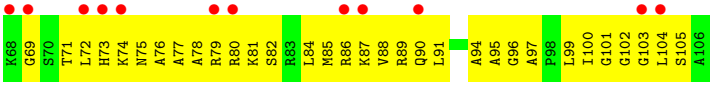
Chain CS:



• Molecule 20: 30S ribosomal protein S20

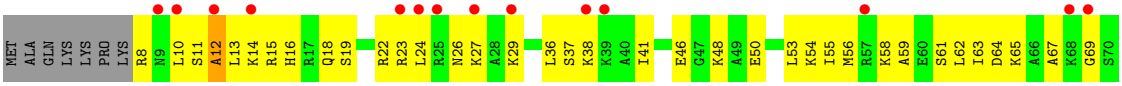
Chain AT:

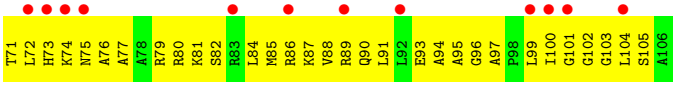




• Molecule 20: 30S ribosomal protein S20

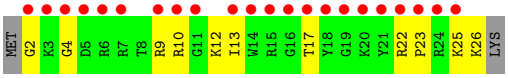
Chain CT:





• Molecule 21: 30S ribosomal protein Thx

Chain AU:

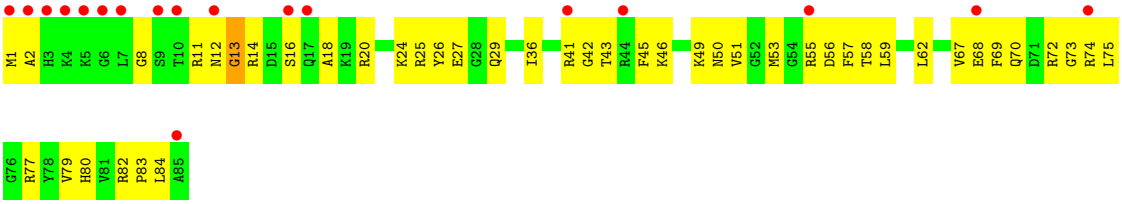


• Molecule 21: 30S ribosomal protein Thx

Chain CU:

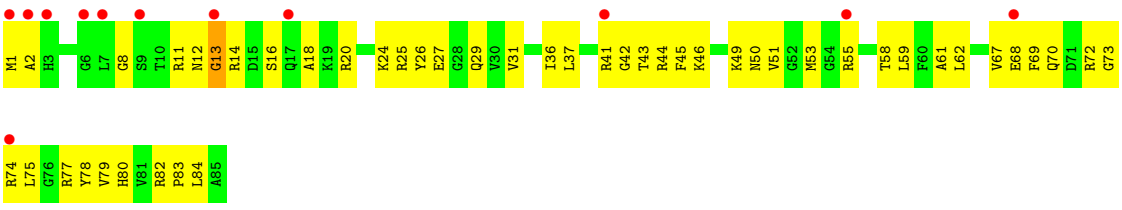
• Molecule 22: 50S ribosomal protein L27

Chain B0:



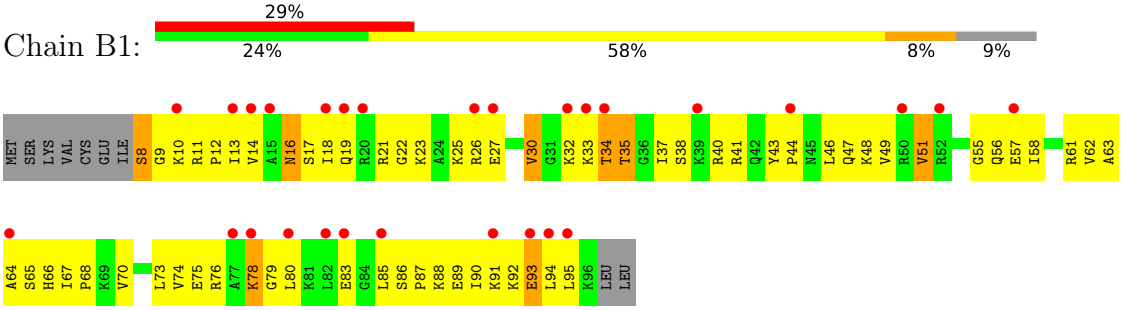
• Molecule 22: 50S ribosomal protein L27

Chain D0:



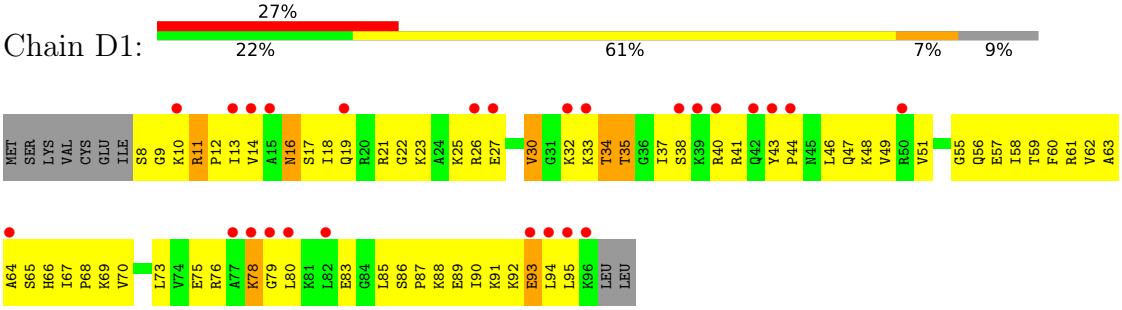
• Molecule 23: 50S ribosomal protein L28

Chain B1:



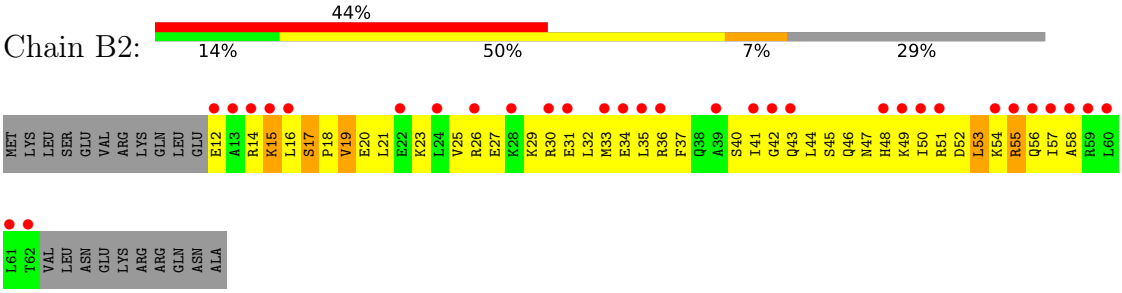
• Molecule 23: 50S ribosomal protein L28

Chain D1:



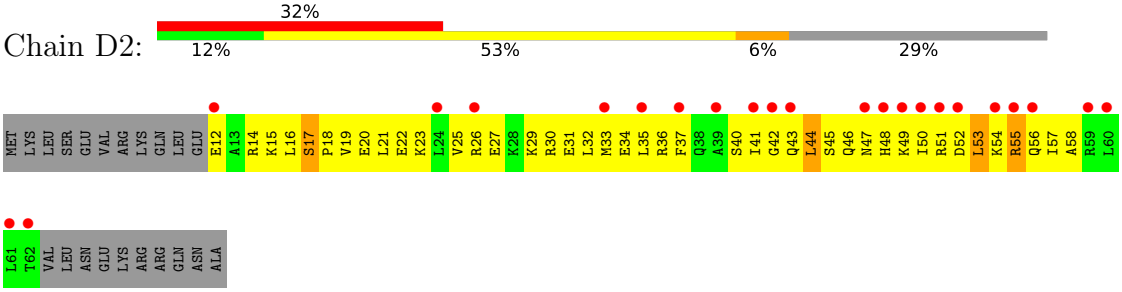
• Molecule 24: 50S ribosomal protein L29

Chain B2:



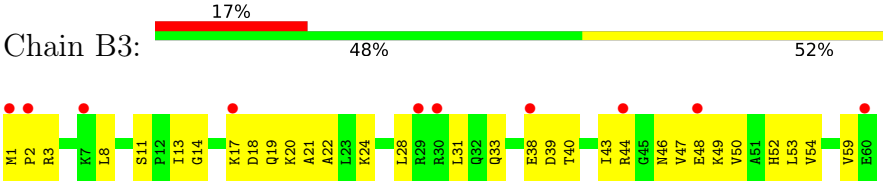
• Molecule 24: 50S ribosomal protein L29

Chain D2:



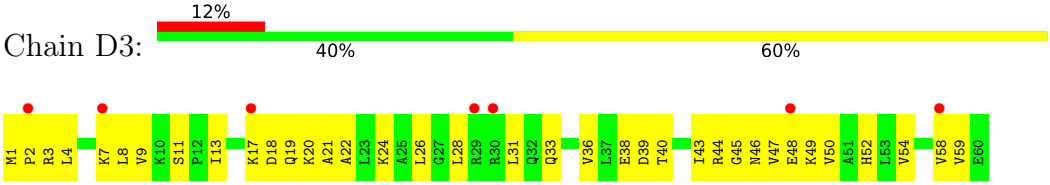
• Molecule 25: 50S ribosomal protein L30

Chain B3:



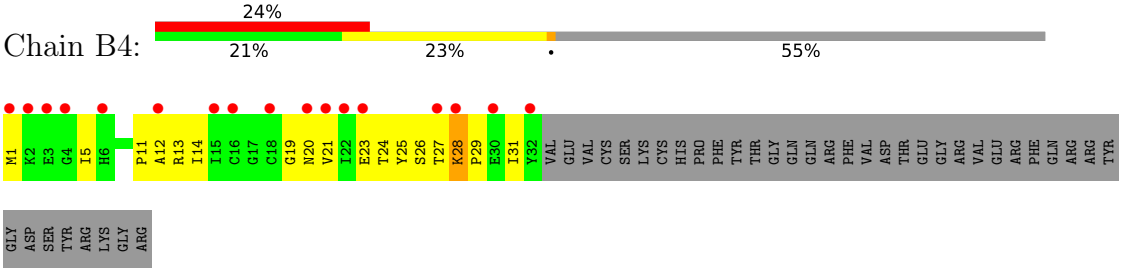
• Molecule 25: 50S ribosomal protein L30

Chain D3:



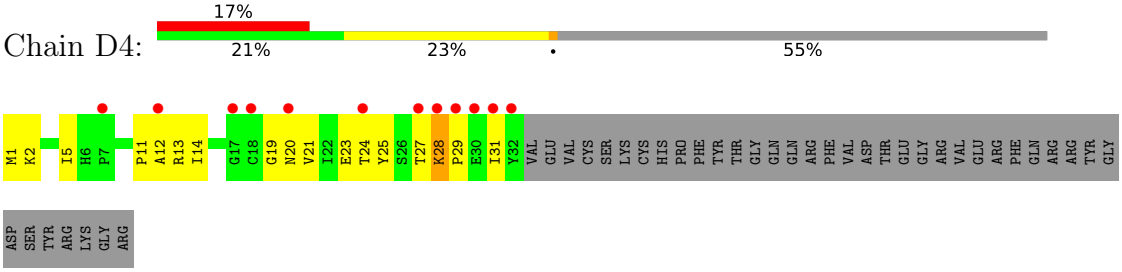
• Molecule 26: 50S ribosomal protein L31

Chain B4:



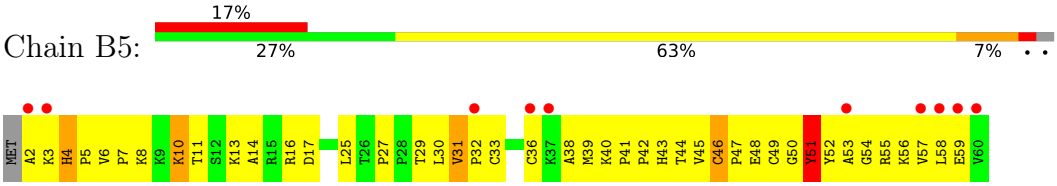
• Molecule 26: 50S ribosomal protein L31

Chain D4:



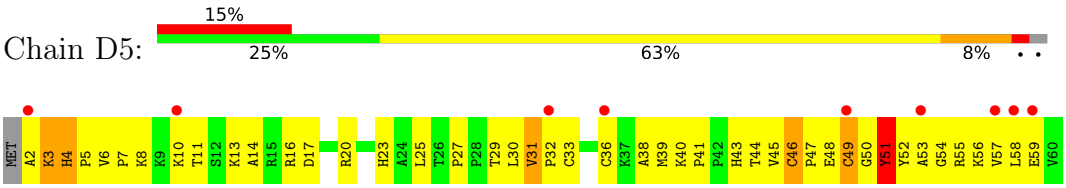
• Molecule 27: 50S ribosomal protein L32

Chain B5:



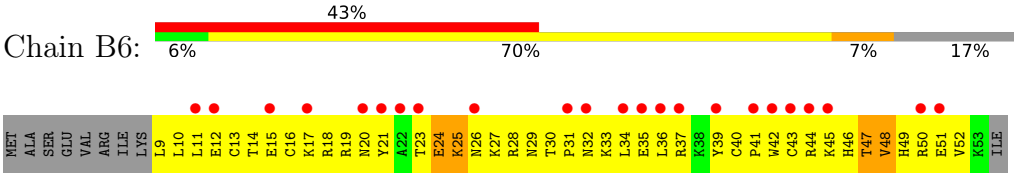
• Molecule 27: 50S ribosomal protein L32

Chain D5:



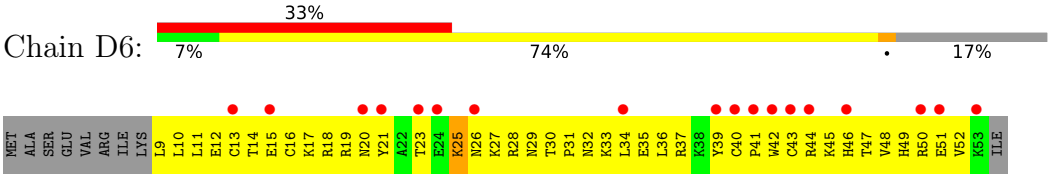
• Molecule 28: 50S ribosomal protein L33

Chain B6:



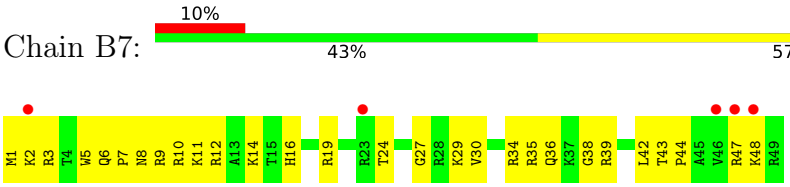
• Molecule 28: 50S ribosomal protein L33

Chain D6:



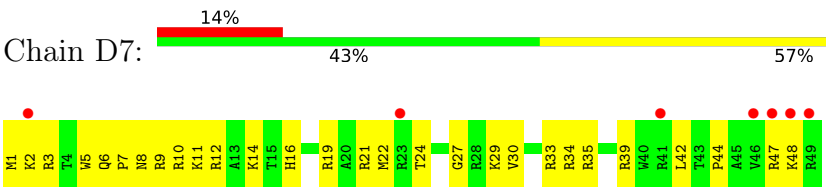
• Molecule 29: 50S ribosomal protein L34

Chain B7:



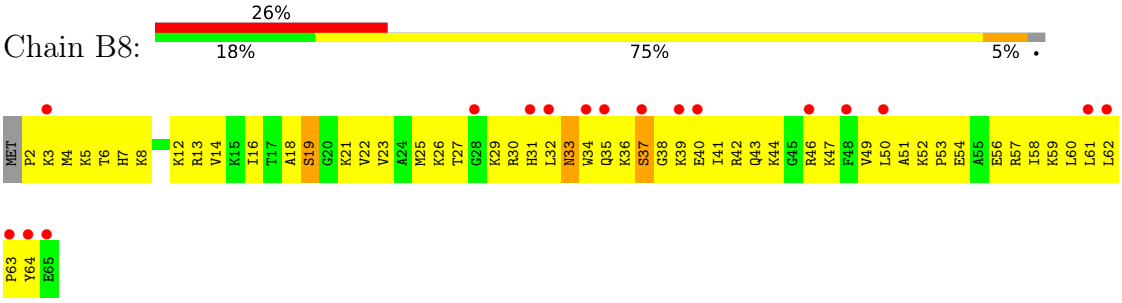
• Molecule 29: 50S ribosomal protein L34

Chain D7:



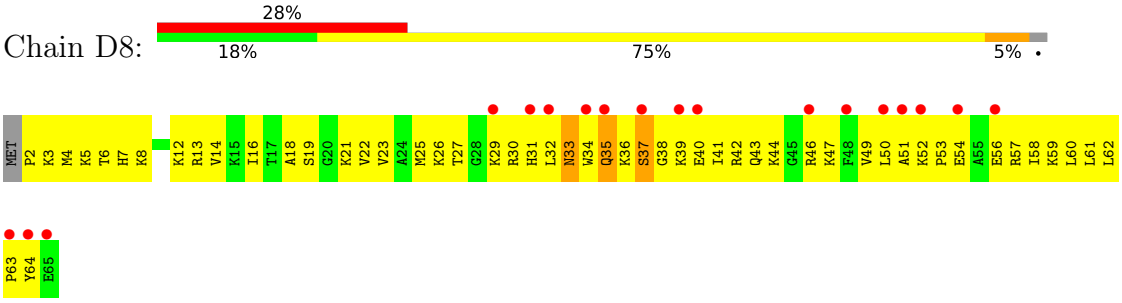
• Molecule 30: 50S ribosomal protein L35

Chain B8:



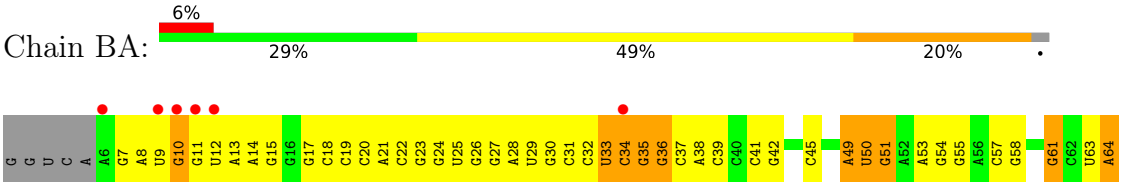
• Molecule 30: 50S ribosomal protein L35

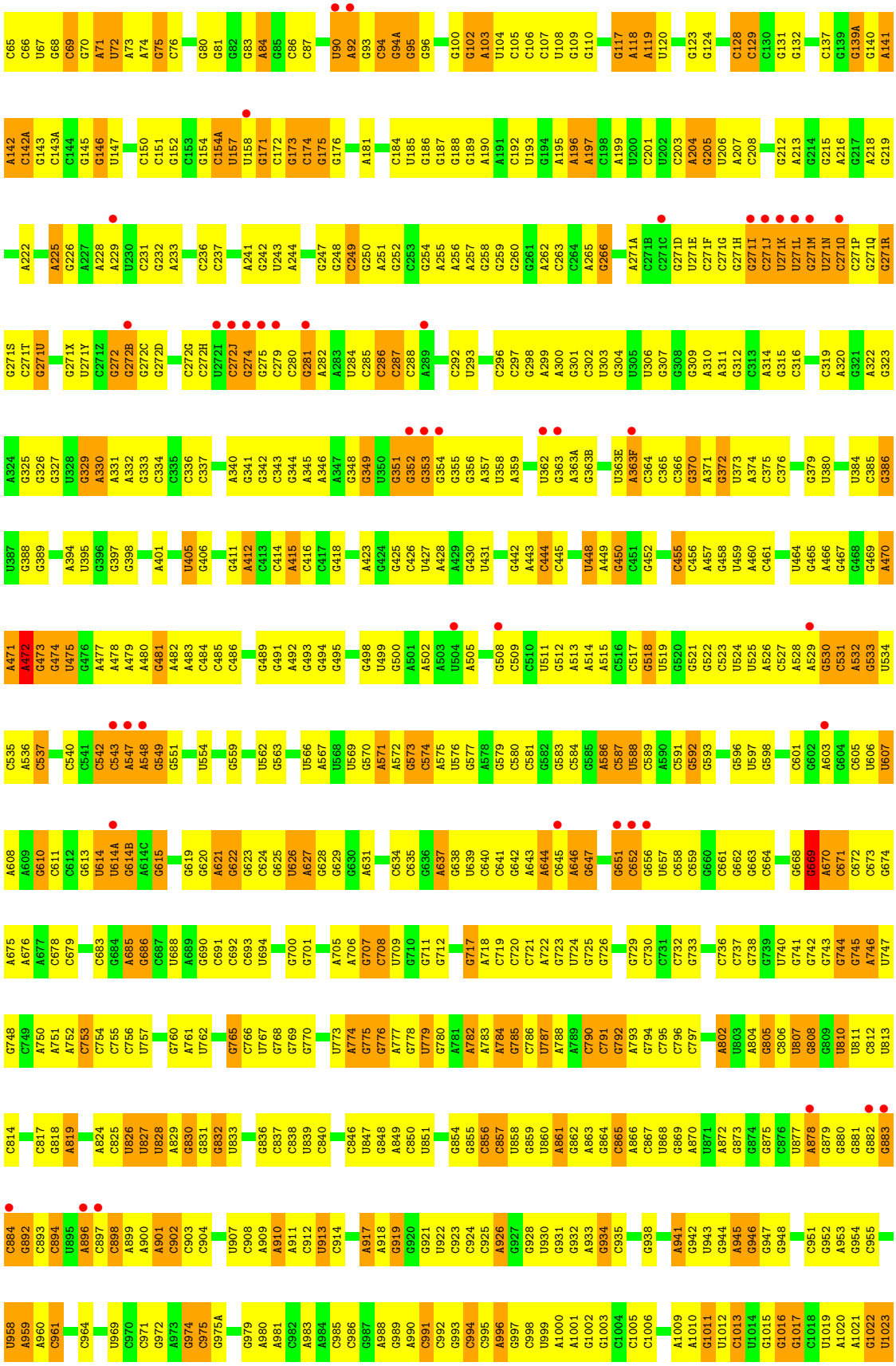
Chain D8:

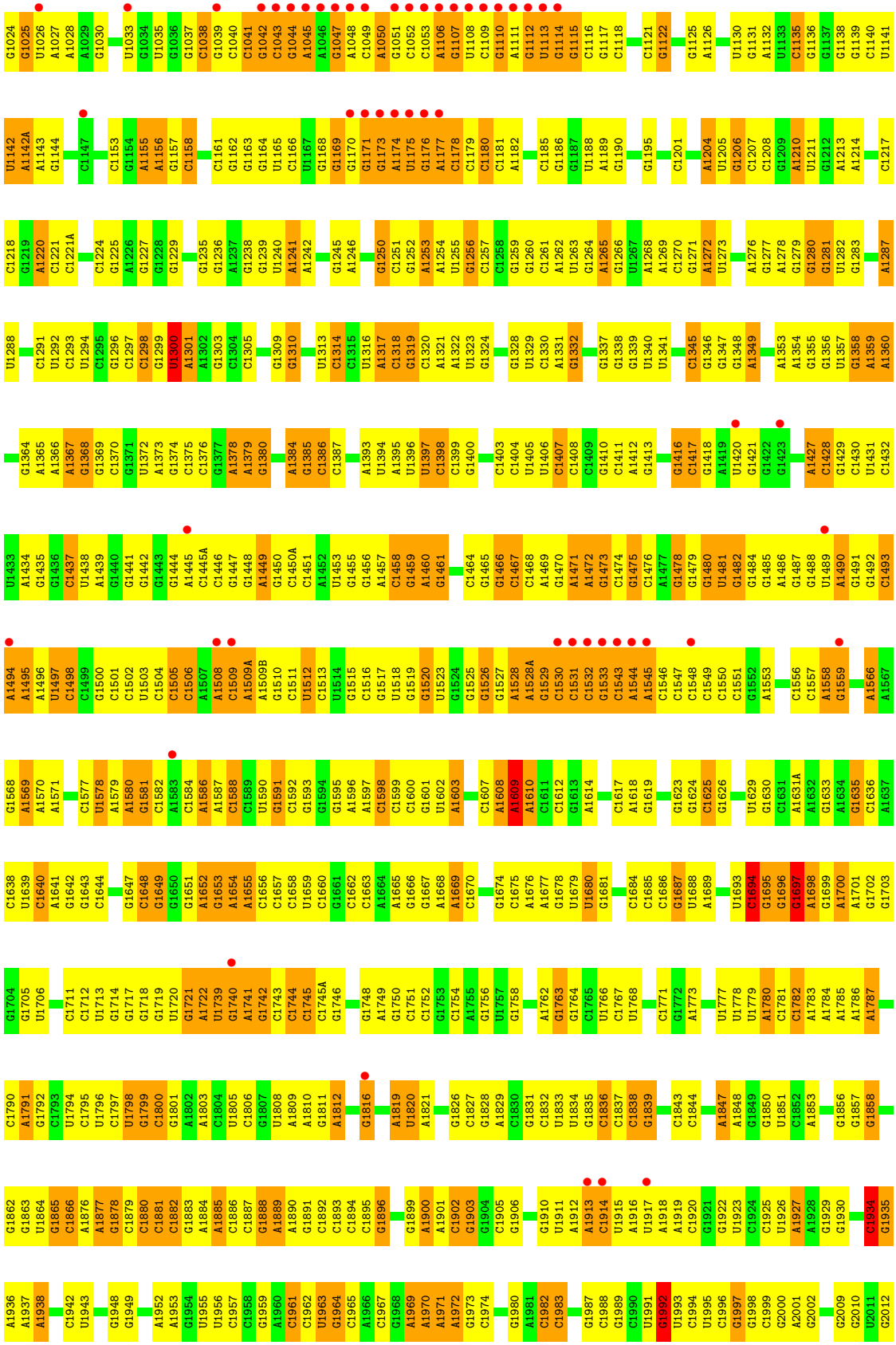


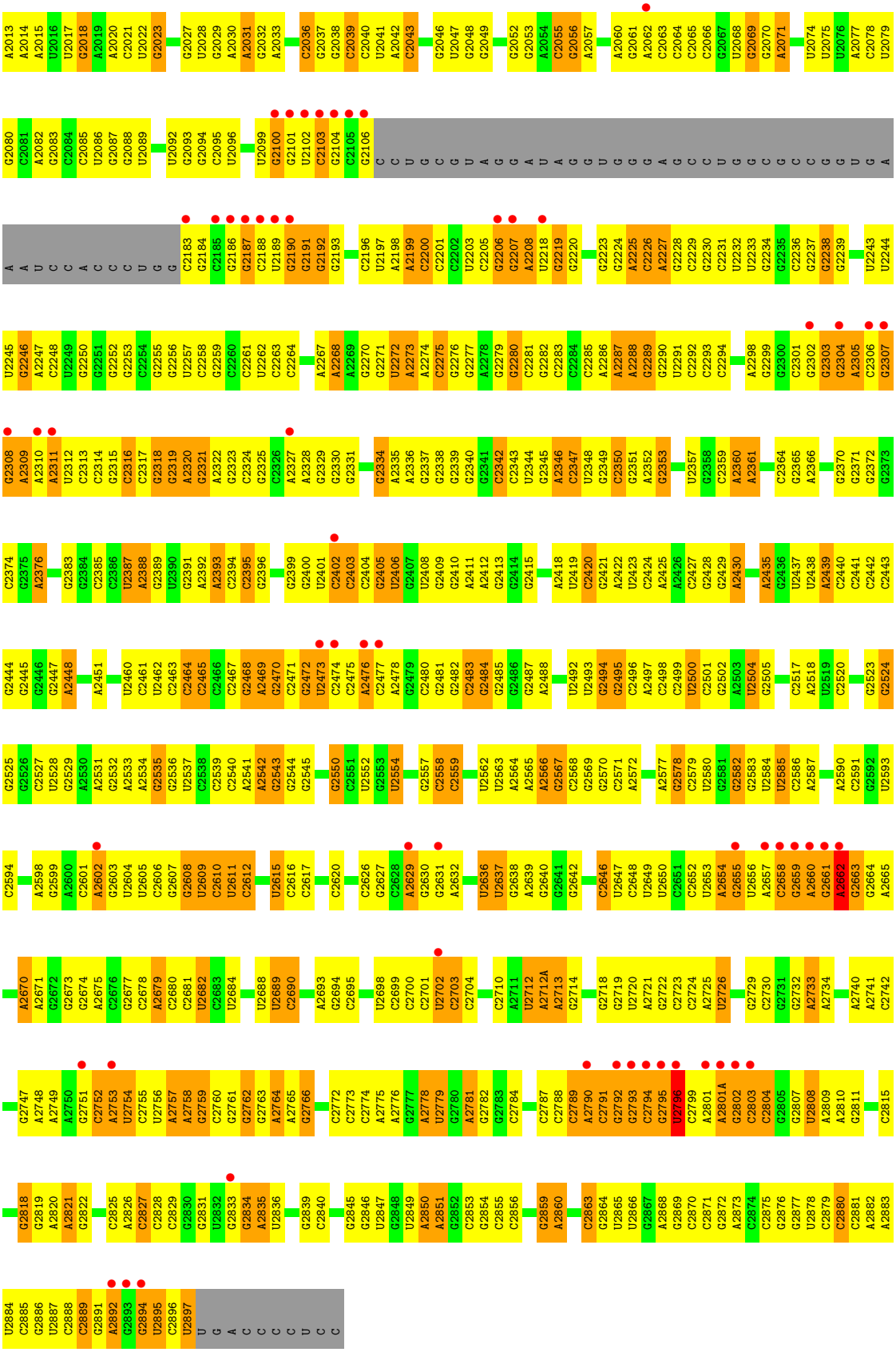
• Molecule 31: 23S ribosomal RNA

Chain BA:



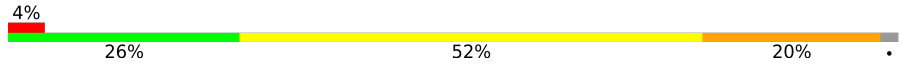


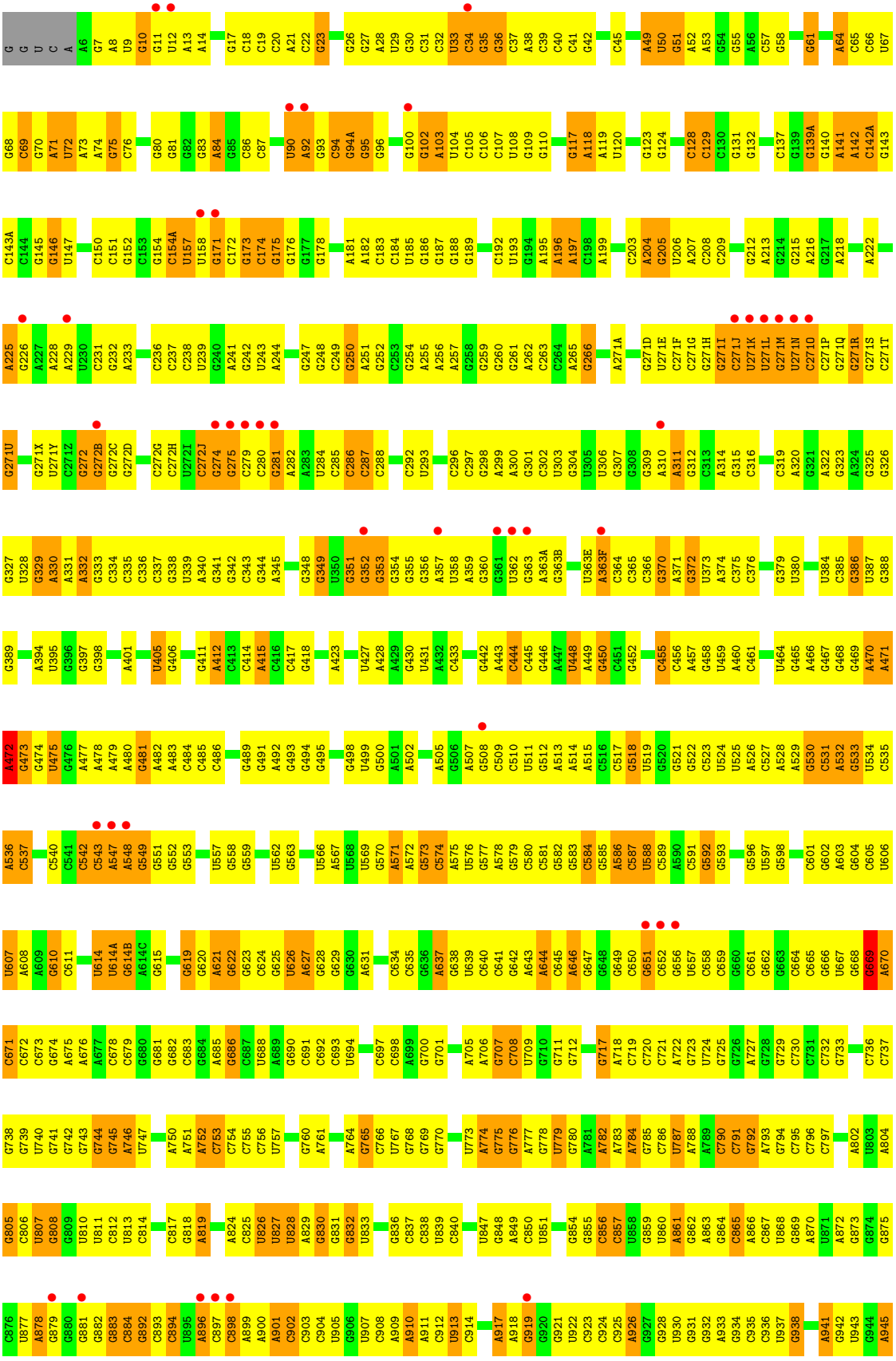


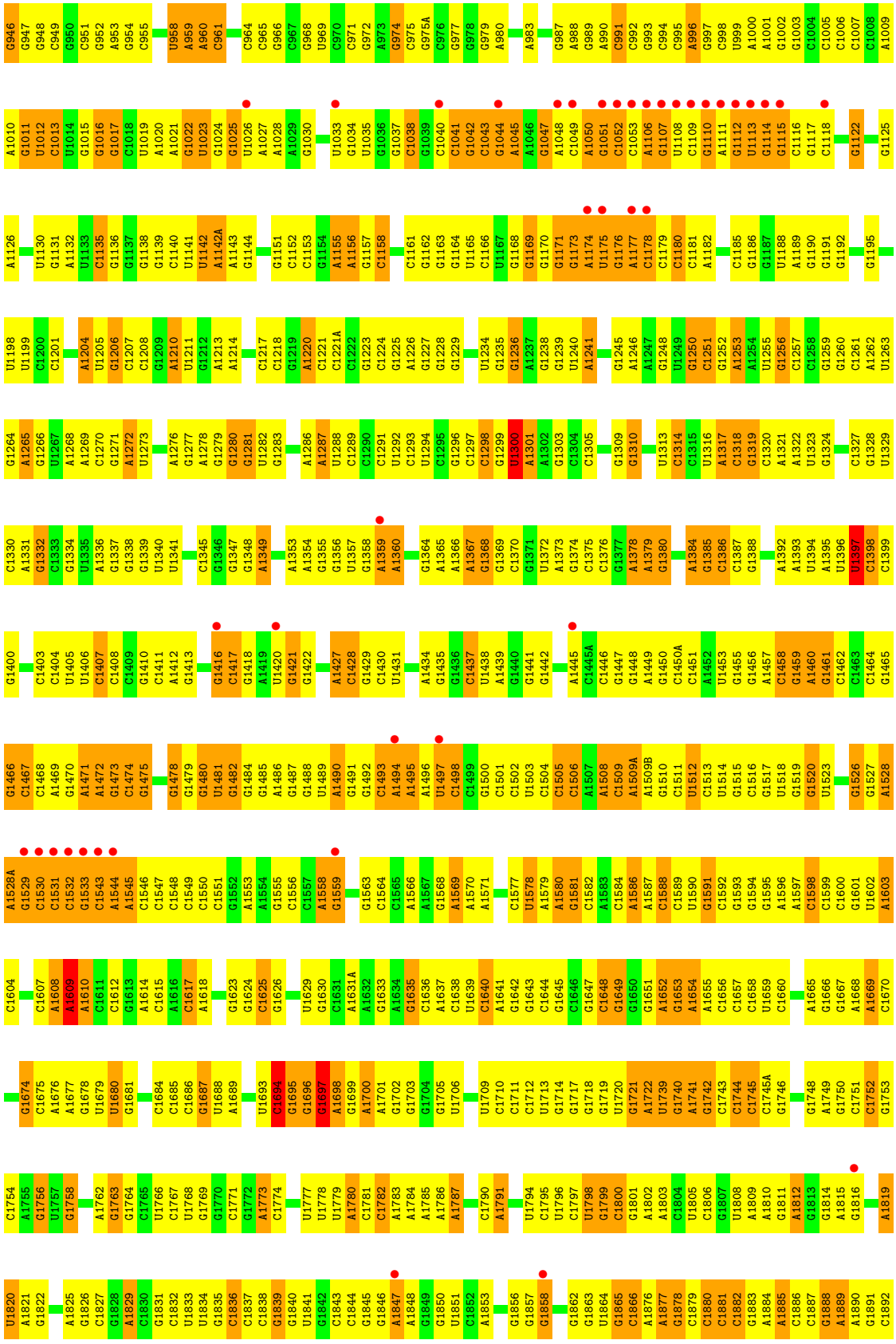


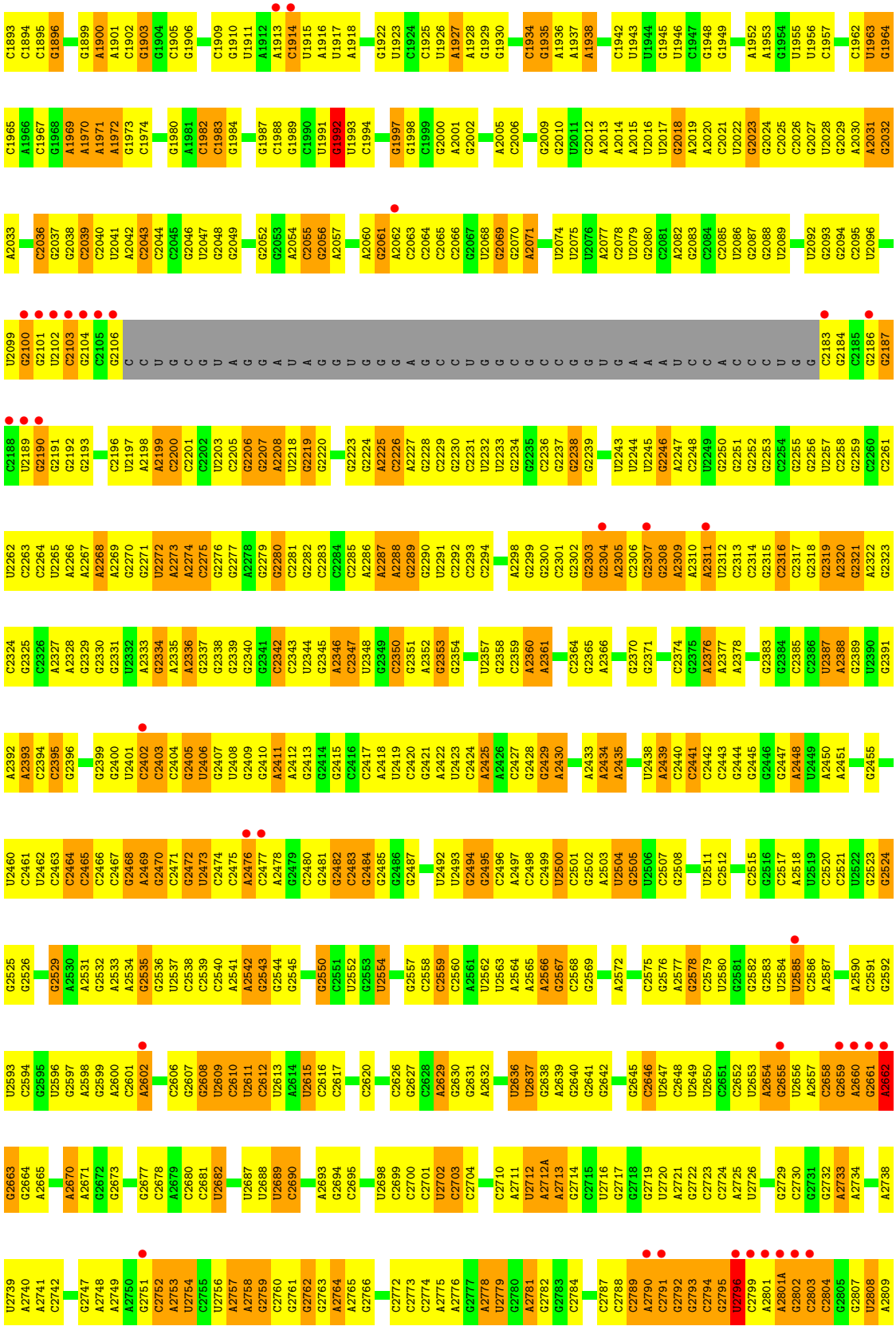
• Molecule 31: 23S ribosomal RNA

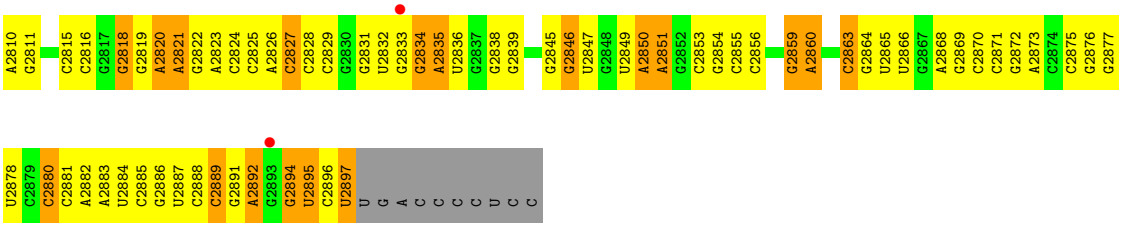
Chain DA:





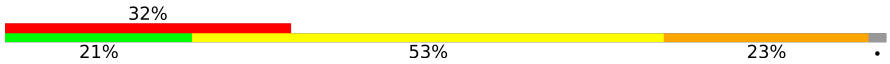

G946 G947 G948 G949 G950 C951 G952 A953 G954 C955 U958 A959 A960 C961 C964 C965 G966 C967 G968 U969 C970 C971 G972 A973 G974 C975 G975A C976 G977 G978 G979 A980 A983 G987 A988 G989 A990 C991 C992 G993 C994 C995 A996 G997 C998 U999 A1000 A1001 G1002 G1003 C1004 C1005 C1006 C1007 C1008 A1009
A1010 G1011 U1012 C1013 U1014 G1015 G1016 G1017 C1018 U1019 A1020 A1021 G1022 U1023 G1024 G1025 U1026 A1027 A1028 A1029 G1030 U1033 G1034 U1035 G1036 G1037 C1038 G1039 C1040 C1041 G1042 C1043 G1044 A1045 A1046 G1047 A1048 C1049 A1050 G1051 C1052 C1053 A1106 G1107 U1108 C1109 G1110 A1111 G1112 U1113 G1114 G1115 C1116 G1117 C1118 G1122 G1125
A1126 U1130 G1131 A1132 U1133 C1135 G1136 G1137 G1138 G1139 C1140 U1141 U1142 A1142A A1143 G1144 G1151 C1152 C1153 G1154 A1155 A1156 G1157 C1158 C1161 G1162 G1163 G1164 U1165 C1166 U1167 G1168 G1169 G1170 G1171 G1173 A1174 A1175 U1176 A1177 C1178 C1179 C1180 C1181 A1182 C1185 G1186 G1187 U1188 A1189 G1190 G1191 G1192 G1195
U1198 U1199 C1200 C1201 A1204 U1205 G1206 C1207 C1208 G1209 A1210 U1211 G1212 A1213 A1214 C1217 C1218 G1219 A1220 C1221 C1221A C1222 G1223 C1224 G1225 A1226 G1227 G1228 G1229 U1234 G1235 G1236 A1237 G1238 G1239 U1240 A1241 G1245 A1246 A1247 G1248 U1249 G1250 C1251 G1252 A1253 A1254 U1255 G1256 C1257 C1258 G1259 G1260 C1261 A1262 U1263
G1264 A1265 G1266 U1267 A1268 A1269 C1270 G1271 A1272 U1273 A1276 G1277 A1278 G1279 G1280 G1281 U1282 G1283 A1286 A1287 U1288 C1289 C1290 C1291 U1292 C1293 U1294 C1295 G1296 C1297 C1298 G1299 U1300 A1301 A1302 G1303 C1304 C1305 G1309 G1310 U1313 C1314 C1315 U1316 A1317 C1318 G1319 C1320 A1321 A1322 U1323 G1324 C1327 G1328 U1329
C1330 A1331 G1332 C1333 G1334 U1335 A1336 G1337 G1338 G1339 U1340 U1341 C1345 G1346 G1347 G1348 A1349 A1353 A1354 G1355 G1356 U1357 G1358 A1359 A1360 G1364 A1365 A1366 A1367 G1368 G1369 C1370 G1371 U1372 A1373 G1374 C1375 C1376 G1377 A1378 A1379 G1380 A1384 G1385 C1386 C1387 G1388 A1392 A1393 U1394 A1395 U1396 U1397 C1398 C1399
G1400 C1403 C1404 U1405 U1406 C1407 C1408 C1409 G1410 C1411 A1412 G1413 C1416 C1417 G1418 A1419 U1420 G1421 G1422 A1427 C1428 G1429 C1430 U1431 A1434 G1435 G1436 C1437 U1438 A1439 G1440 C1441 G1442 A1445 C1445A C1446 G1447 G1448 A1449 G1450 C1450A C1451 A1452 U1453 G1455 G1456 A1457 C1458 G1459 A1460 G1461 C1462 G1463 C1464 G1465
G1466 C1467 C1468 A1469 G1470 A1471 A1472 G1473 C1474 G1475 G1478 G1479 G1480 U1481 G1482 G1484 G1485 A1486 G1487 G1488 U1489 A1490 G1491 G1492 C1493 A1494 A1495 A1496 U1497 C1498 C1499 C1500 C1501 C1502 U1503 C1504 C1505 C1506 A1507 A1508 C1509 A1509A A1509B G1510 C1511 U1512 C1513 U1514 G1515 C1516 G1517 U1518 G1519 G1520 U1523 G1526 G1527 A1528
A1528A G1529 C1530 C1531 C1532 G1533 C1543 A1544 A1545 C1546 C1547 C1548 C1549 C1550 C1551 G1552 A1553 A1554 G1555 C1556 C1557 A1558 G1559 G1563 C1564 C1565 A1566 A1567 G1568 A1569 A1570 A1571 C1577 U1578 A1579 A1580 G1581 C1582 A1583 C1584 A1586 A1587 C1588 C1589 U1590 G1591 C1592 G1593 G1594 G1595 A1596 A1597 C1598 C1599 C1600 G1601 U1602 A1603
C1604 C1607 A1608 A1609 A1610 C1611 C1612 G1613 A1614 C1615 A1616 C1617 A1618 G1623 G1624 C1625 G1626 U1629 G1630 C1631 A1631A A1632 G1633 A1634 G1635 C1636 A1637 C1638 U1639 C1640 A1641 G1642 G1643 C1644 G1645 C1646 G1647 C1648 G1649 G1650 G1651 A1652 G1653 A1654 A1655 C1656 C1657 C1658 U1659 C1660 A1665 G1666 G1667 A1668 A1669 C1670
G1674 C1675 A1676 A1677 G1678 U1679 U1680 G1681 C1684 C1685 C1686 G1687 U1688 A1689 U1693 C1694 G1695 G1696 G1697 A1698 G1699 A1700 A1701 G1702 G1703 G1704 G1705 U1706 U1709 C1710 C1711 C1712 U1713 G1714 G1717 G1718 G1719 U1720 G1721 A1722 U1739 G1740 A1741 G1742 C1743 C1744 C1745 C1745A G1746 G1748 A1749 G1750 C1751 C1752 G1753
C1754 A1755 G1756 U1757 G1758 A1762 G1763 G1764 C1765 U1766 C1767 U1768 G1769 G1770 C1771 G1772 A1773 C1774 U1777 U1778 U1779 A1780 C1781 C1782 A1783 A1784 A1785 A1786 A1787 C1790 A1791 U1794 C1795 U1796 C1797 U1798 G1799 C1800 G1801 A1802 A1803 C1804 U1805 C1806 G1807 U1808 A1809 A1810 G1811 A1812 G1813 G1814 A1815 G1816 A1819
U1820 A1821 G1822 A1825 G1826 C1827 G1828 A1829 C1830 G1831 C1832 U1833 U1834 G1835 C1836 C1837 C1838 G1839 G1840 U1841 G1842 C1843 C1844 G1845 G1846 A1847 A1848 G1849 G1850 U1851 C1852 A1853 G1856 G1857 G1858 G1862 G1863 U1864 G1865 C1866 A1876 A1877 G1878 C1879 C1880 C1881 C1882 G1883 A1884 A1885 C1886 C1887 G1888 A1889 A1890 G1891 C1892

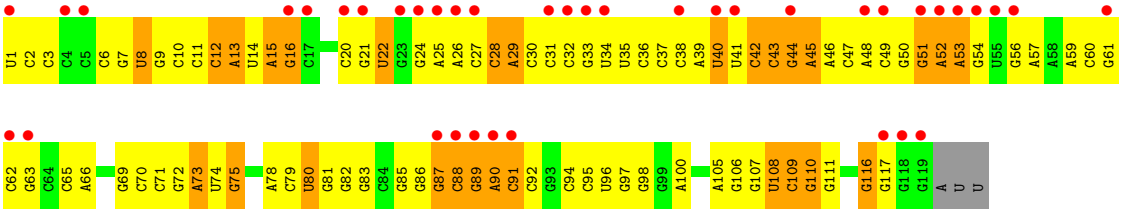




• Molecule 32: 5S ribosomal RNA

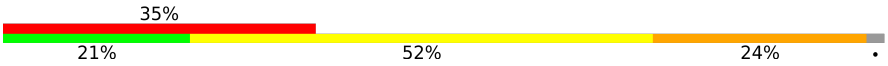
Chain BB:

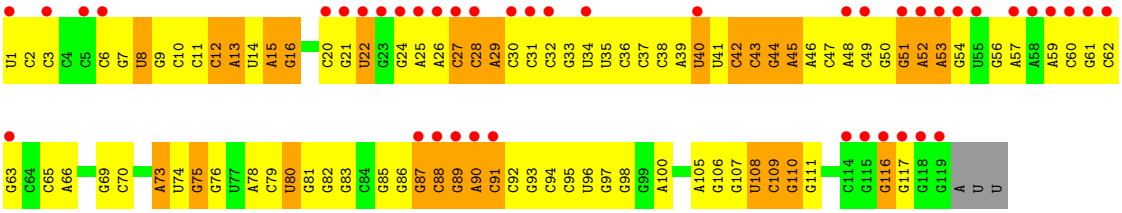




• Molecule 32: 5S ribosomal RNA

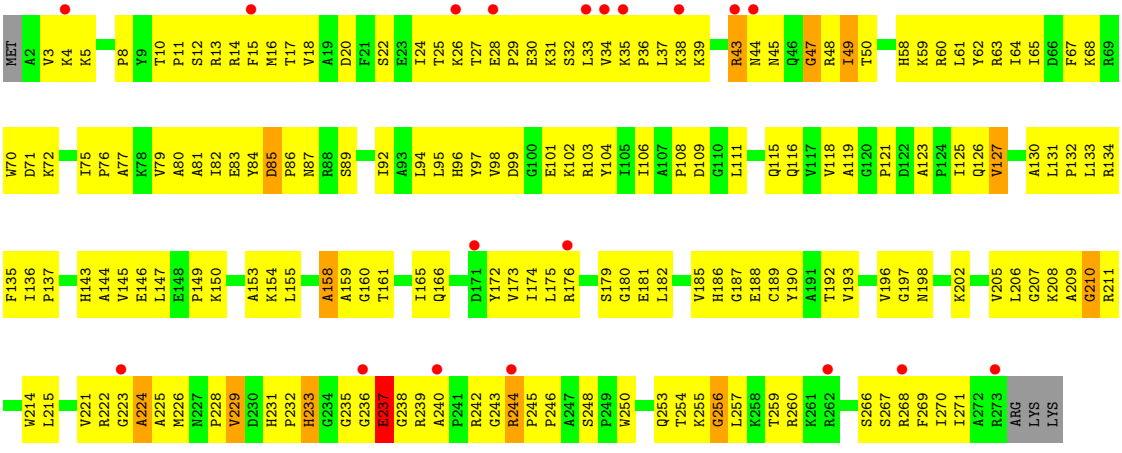
Chain DB:





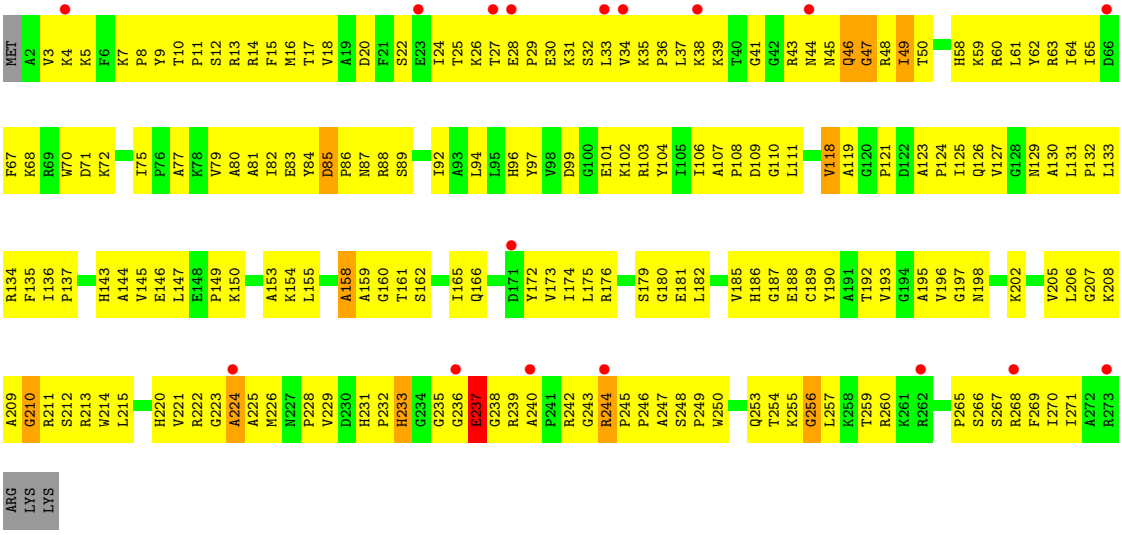
• Molecule 33: 50S ribosomal protein L2

Chain BD:



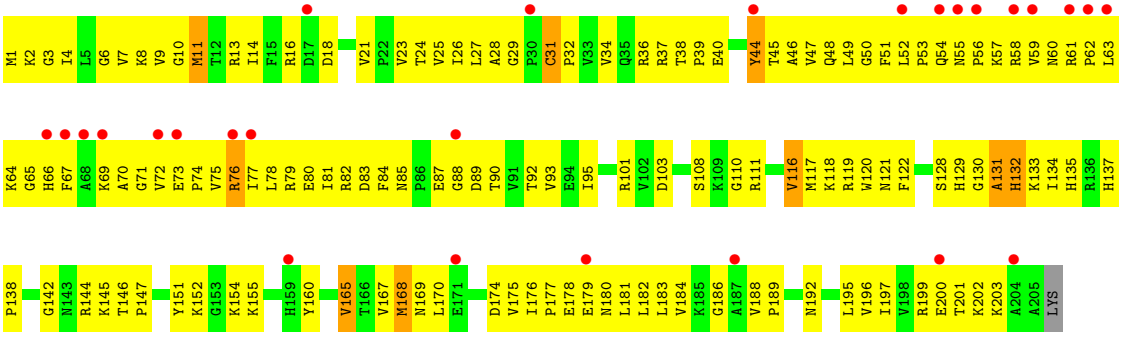
• Molecule 33: 50S ribosomal protein L2

Chain DD:



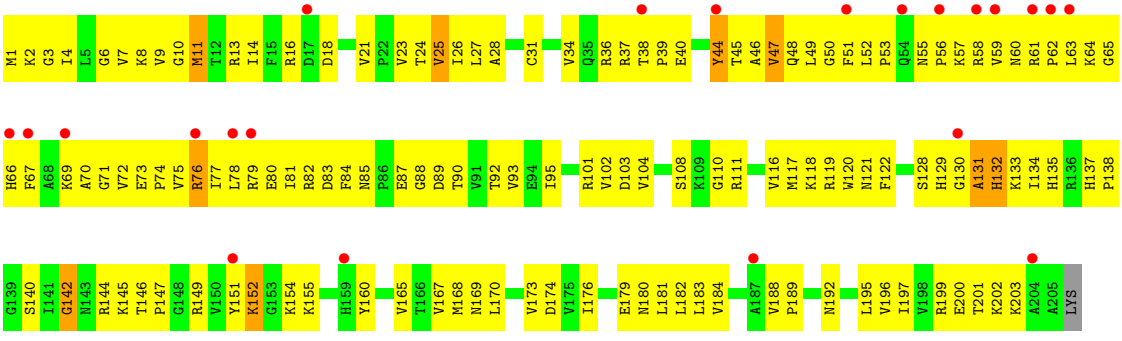
• Molecule 34: 50S ribosomal protein L3

Chain BE:



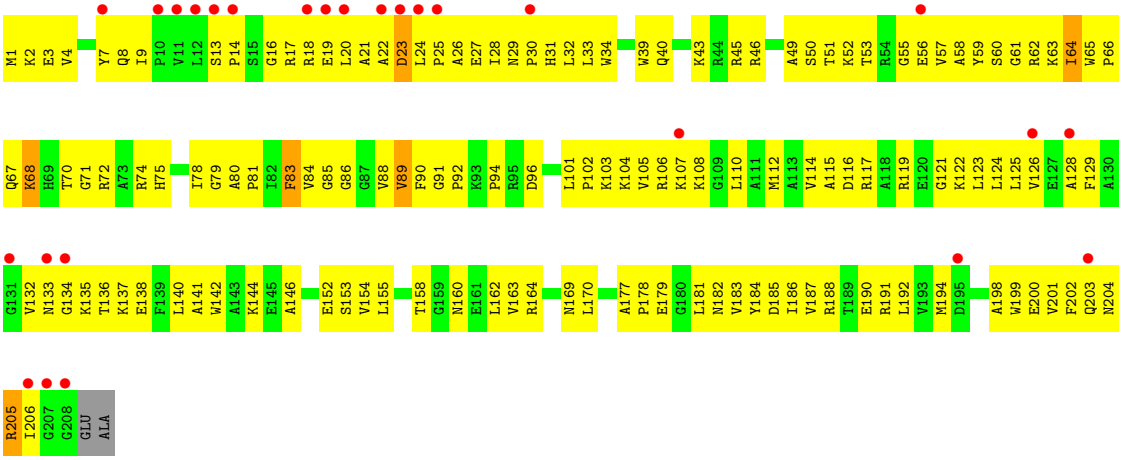
• Molecule 34: 50S ribosomal protein L3

Chain DE:



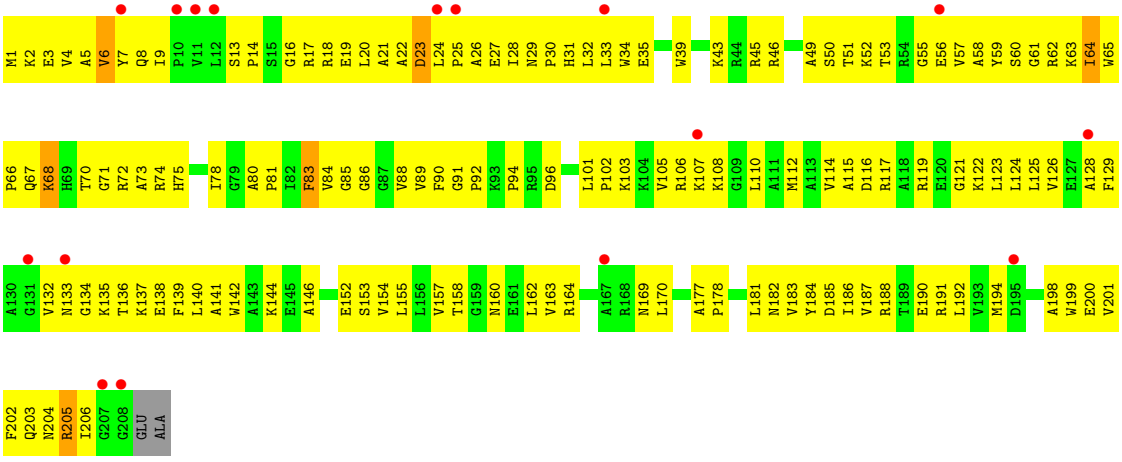
• Molecule 35: 50S ribosomal protein L4

Chain BF:



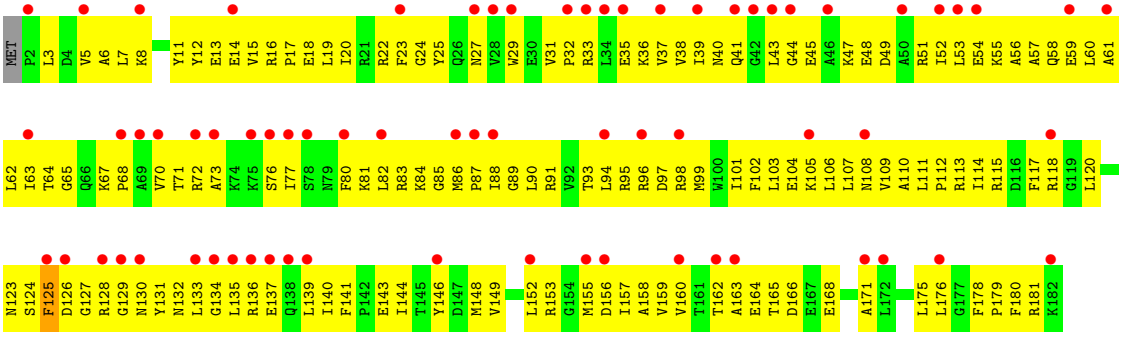
• Molecule 35: 50S ribosomal protein L4

Chain DF:



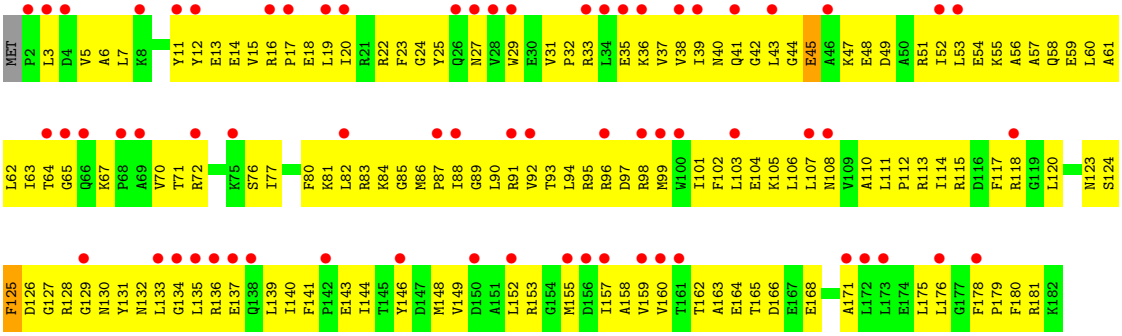
• Molecule 36: 50S ribosomal protein L5

Chain BG:



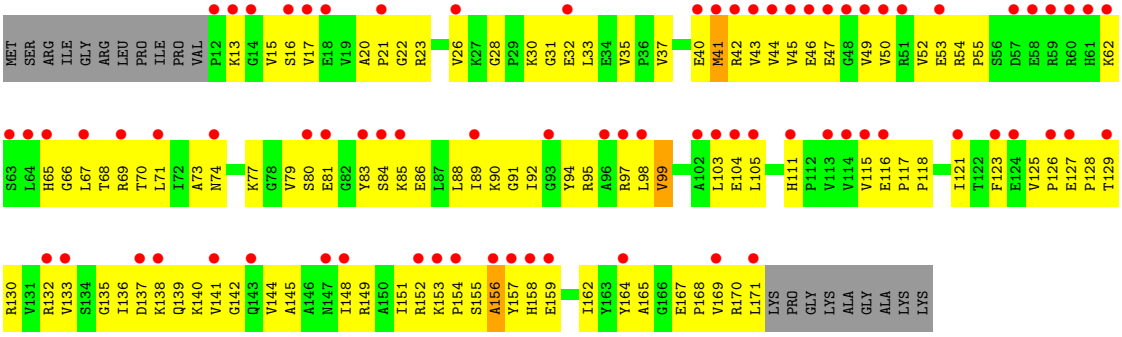
• Molecule 36: 50S ribosomal protein L5

Chain DG:



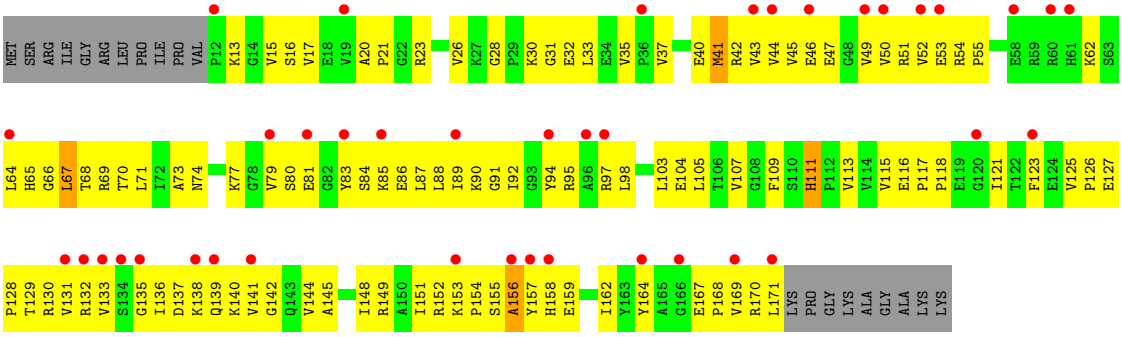
• Molecule 37: 50S ribosomal protein L6

Chain BH:



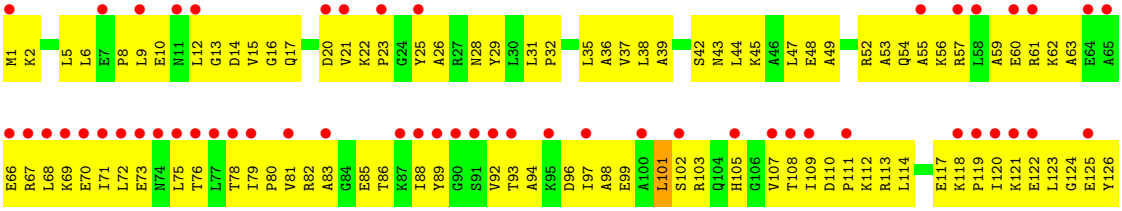
• Molecule 37: 50S ribosomal protein L6

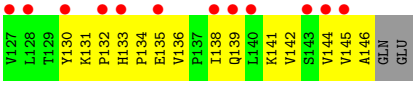
Chain DH:



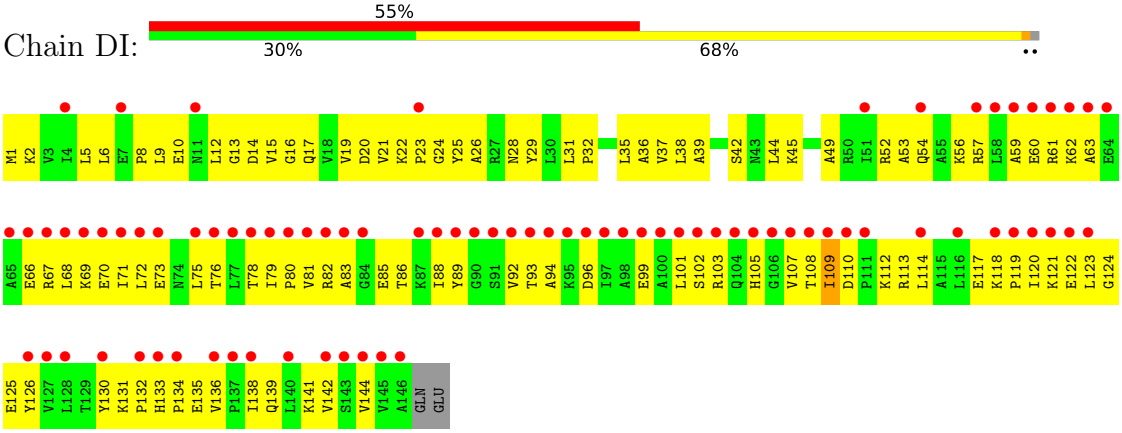
• Molecule 38: 50S ribosomal protein L9

Chain BI:

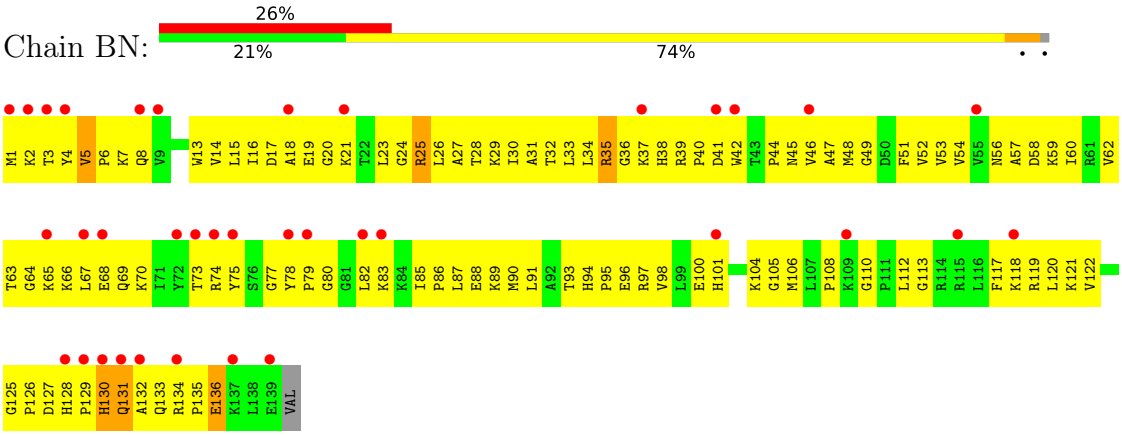




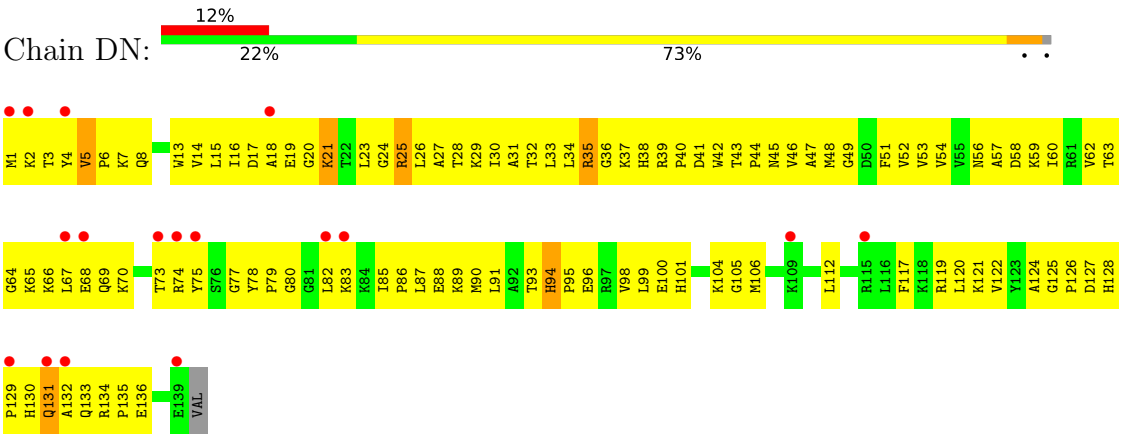
• Molecule 38: 50S ribosomal protein L9



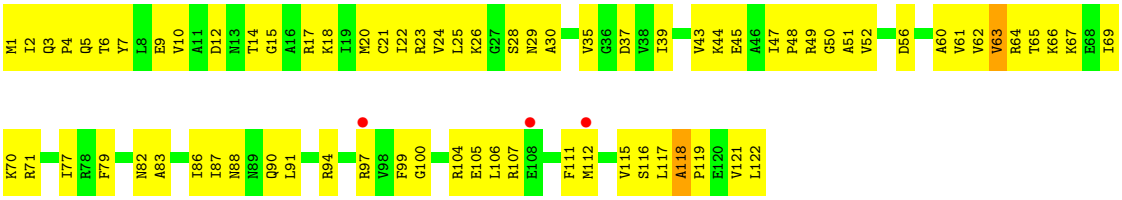
• Molecule 39: 50S ribosomal protein L13

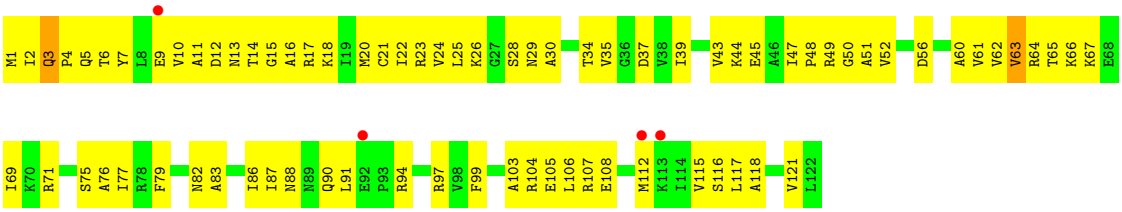


• Molecule 39: 50S ribosomal protein L13



• Molecule 40: 50S ribosomal protein L14



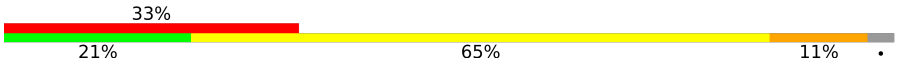


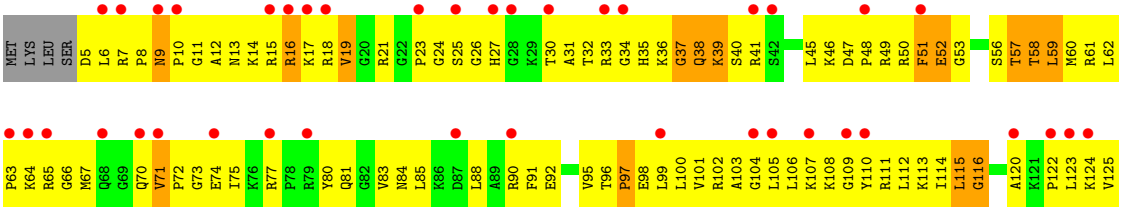
• Molecule 40: 50S ribosomal protein L14

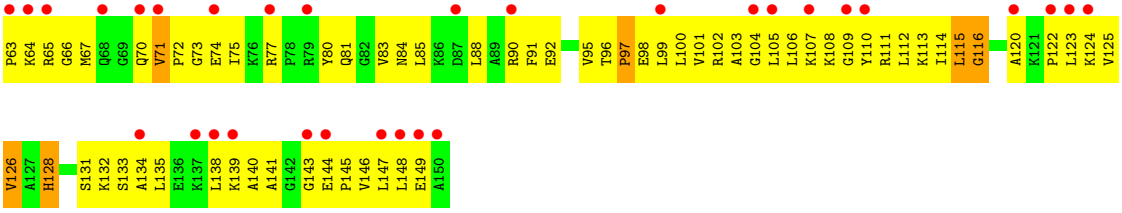
Chain DO:

• Molecule 41: 50S ribosomal protein L15

Chain BP:

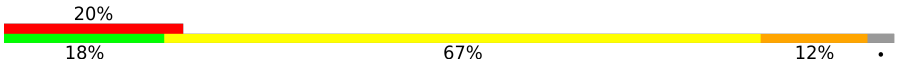


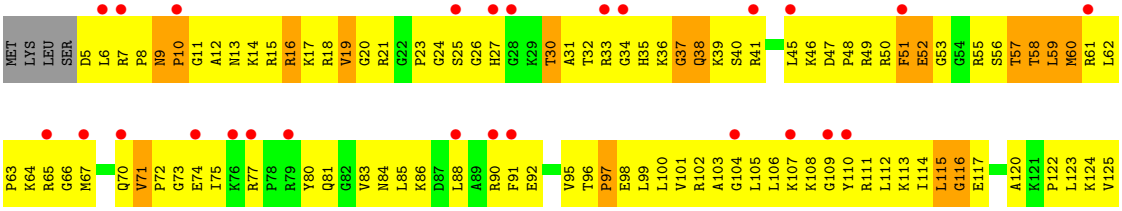


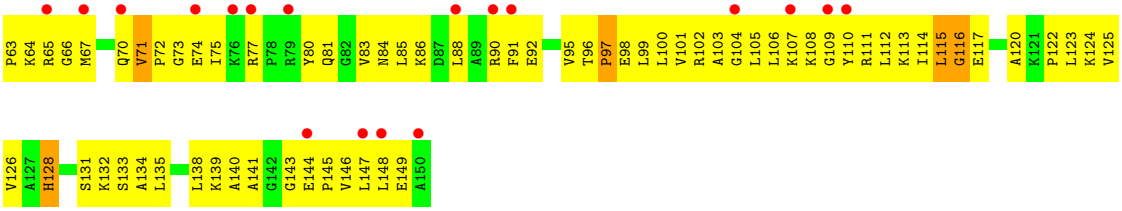


• Molecule 41: 50S ribosomal protein L15

Chain DP:

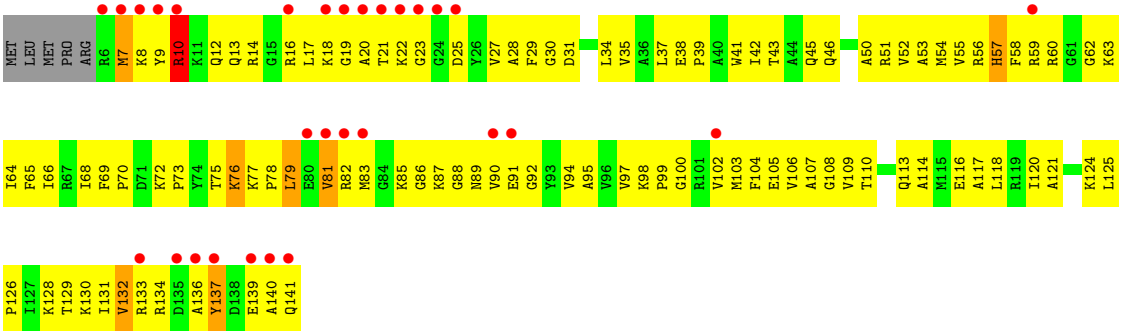


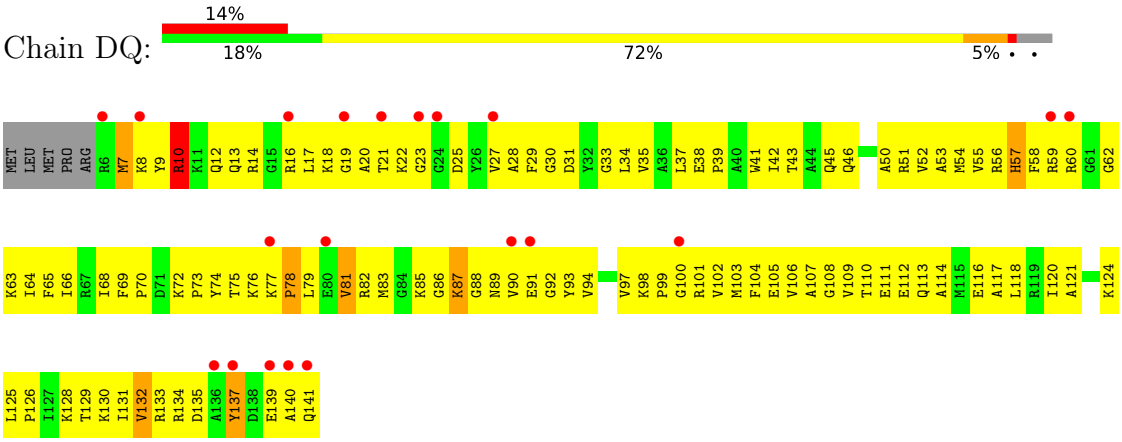




• Molecule 42: 50S ribosomal protein L16

Chain BQ:



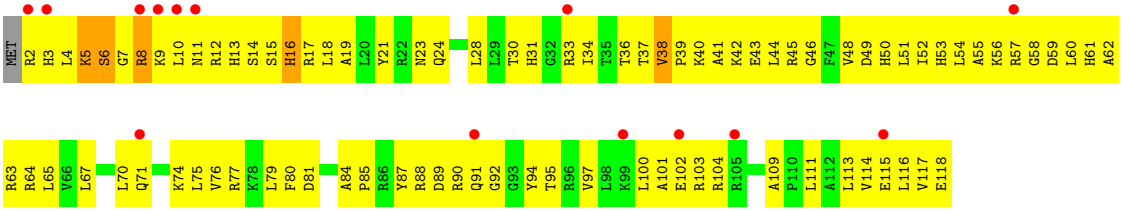


• Molecule 42: 50S ribosomal protein L16

Chain DQ:

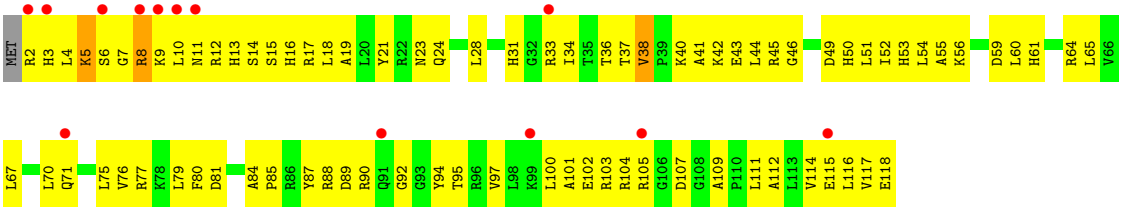
• Molecule 43: 50S ribosomal protein L17

Chain BR:



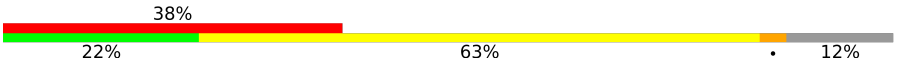
• Molecule 43: 50S ribosomal protein L17

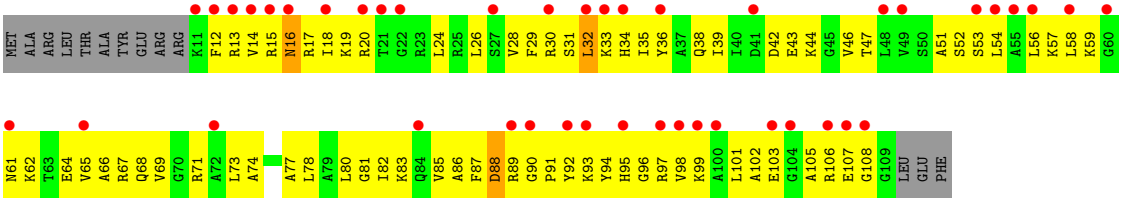
Chain DR:



• Molecule 44: 50S ribosomal protein L18

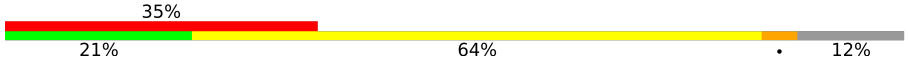
Chain BS:

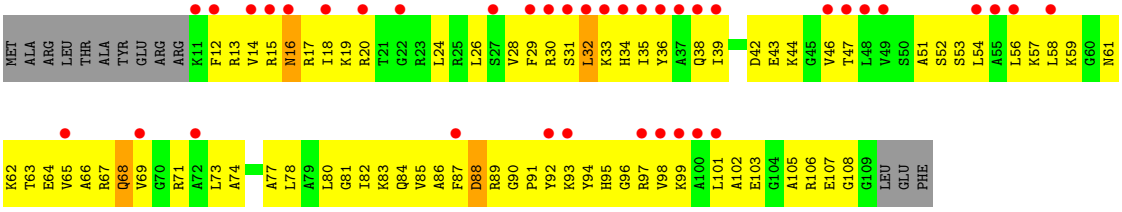




• Molecule 44: 50S ribosomal protein L18

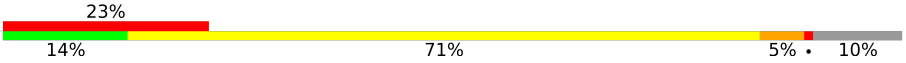
Chain DS:

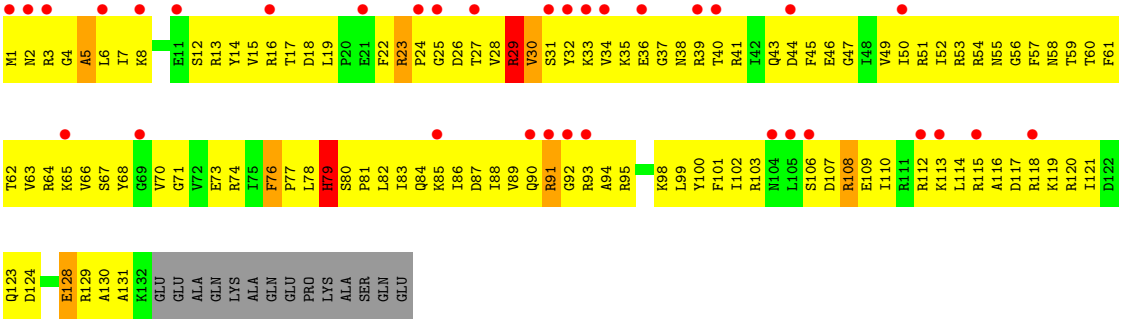




• Molecule 45: 50S ribosomal protein L19

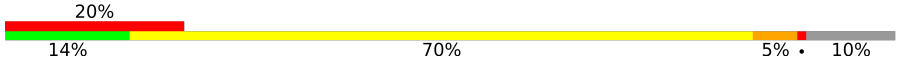
Chain BT:

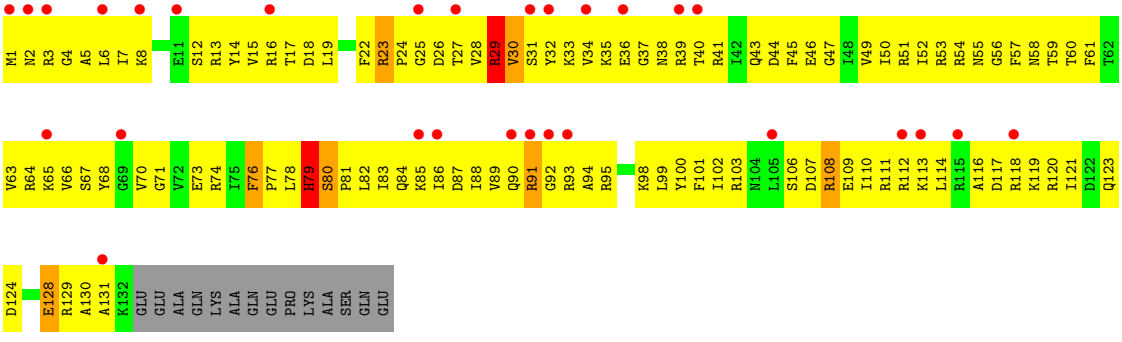




• Molecule 45: 50S ribosomal protein L19

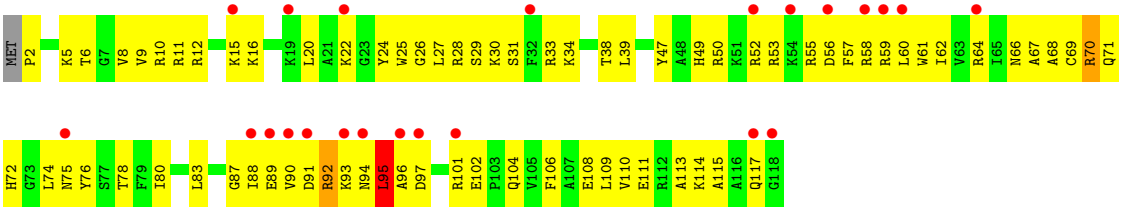
Chain DT:



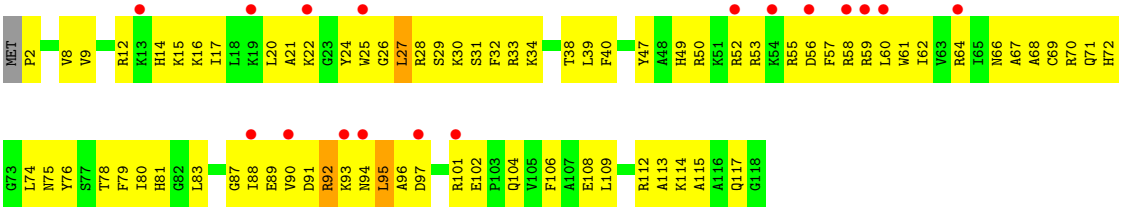


• Molecule 46: 50S ribosomal protein L20

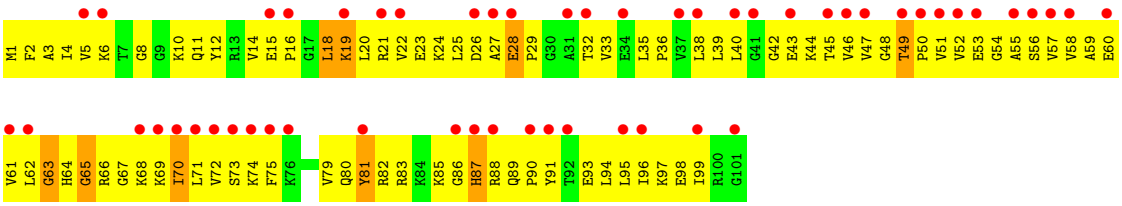
Chain BU:



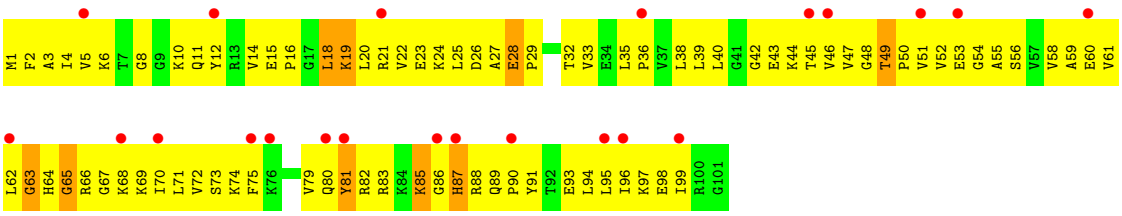
• Molecule 46: 50S ribosomal protein L20



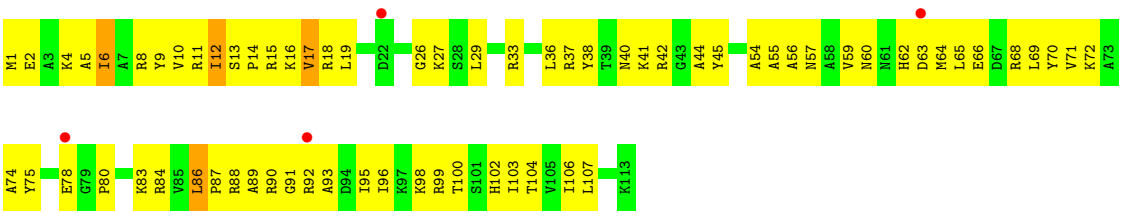
• Molecule 47: 50S ribosomal protein L21



• Molecule 47: 50S ribosomal protein L21

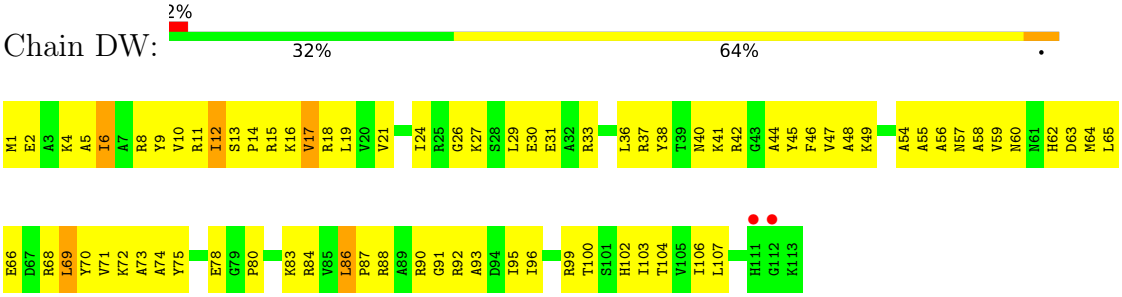


• Molecule 48: 50S ribosomal protein L22



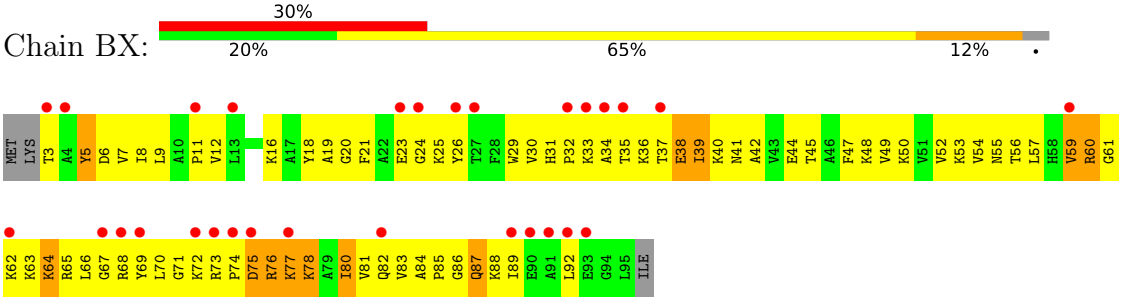
• Molecule 48: 50S ribosomal protein L22

Chain DW:



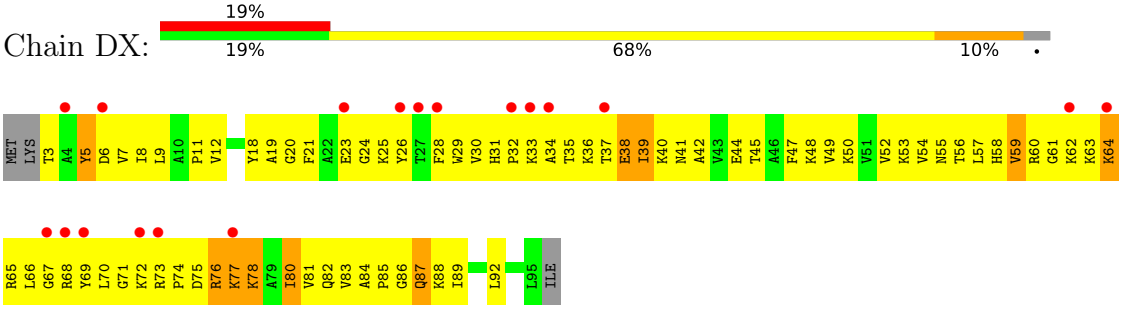
• Molecule 49: 50S ribosomal protein L23

Chain BX:



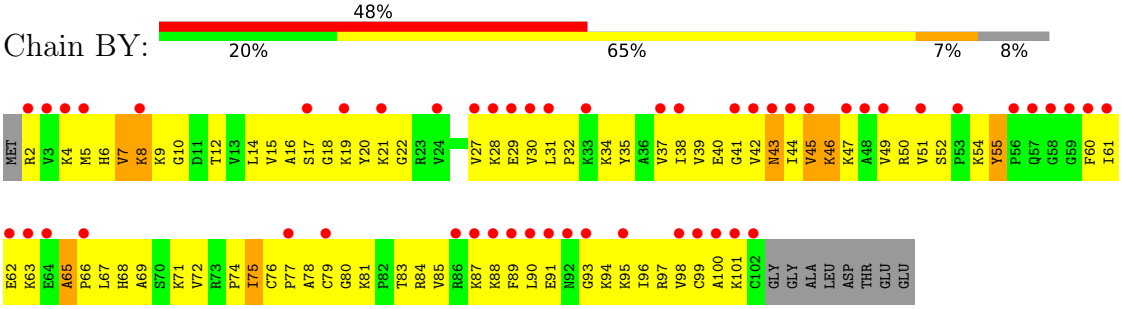
• Molecule 49: 50S ribosomal protein L23

Chain DX:



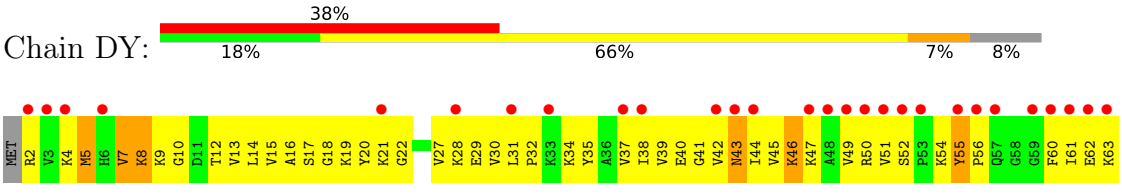
• Molecule 50: 50S ribosomal protein L24

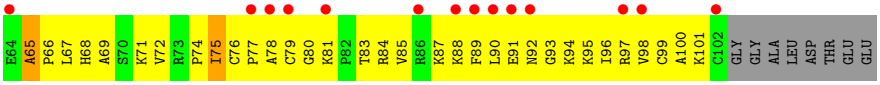
Chain BY:



• Molecule 50: 50S ribosomal protein L24

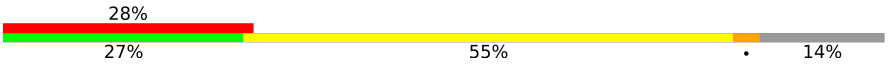
Chain DY:

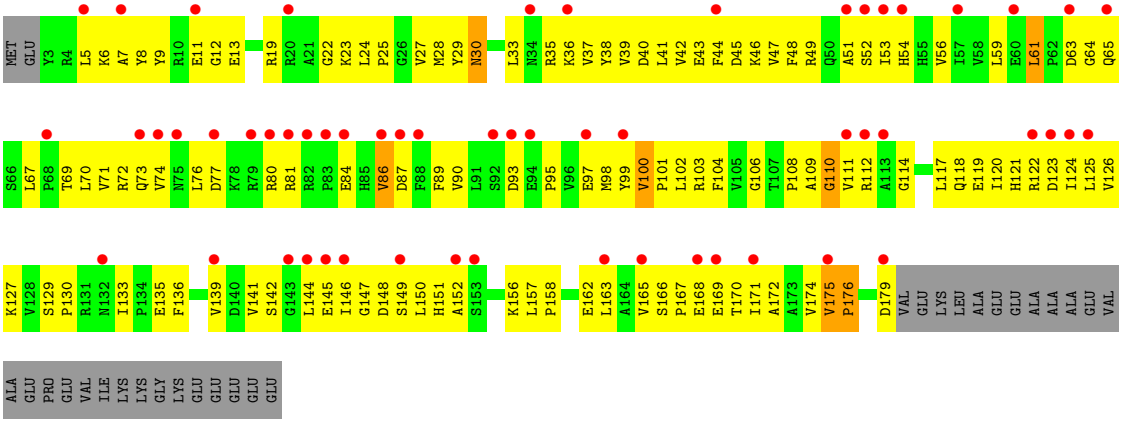




• Molecule 51: 50S ribosomal protein L25

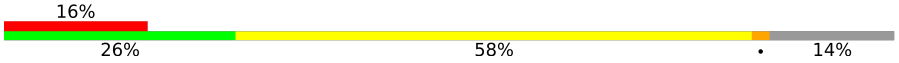
Chain BZ:

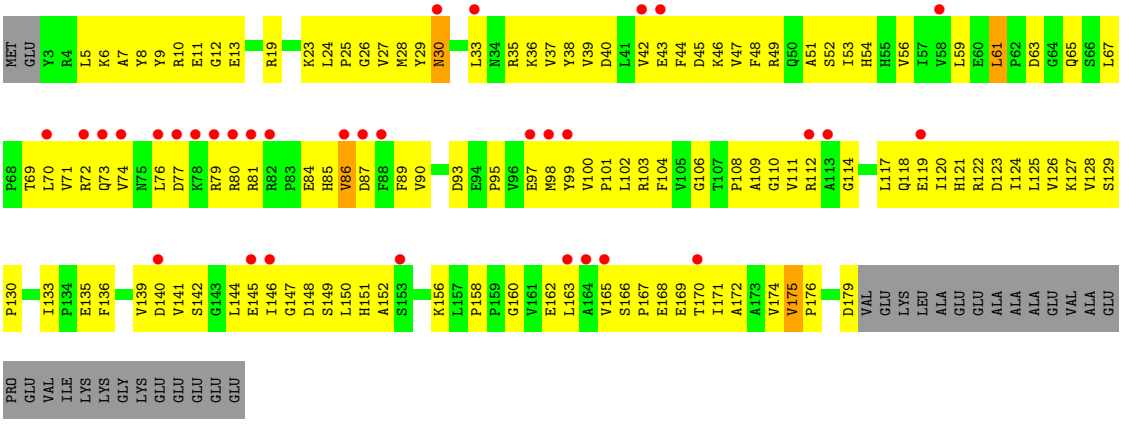




• Molecule 51: 50S ribosomal protein L25

Chain DZ:





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	210.18Å 448.40Å 621.05Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.57 – 3.00 49.57 – 3.00	Depositor EDS
% Data completeness (in resolution range)	(Not available) (49.57-3.00) 98.5 (49.57-3.00)	Depositor EDS
R_{merge}	0.32	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.07 (at 3.01Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.244 , 0.281 0.243 , 0.276	Depositor DCC
R_{free} test set	57196 reflections (4.95%)	wwPDB-VP
Wilson B-factor (Å^2)	73.9	Xtriage
Anisotropy	0.178	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.30 , 105.9	EDS
L-test for twinning[2]	$< \|L\| > = 0.47$, $< L^2 > = 0.29$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.90	EDS
Total number of atoms	277987	wwPDB-VP
Average B, all atoms (Å^2)	89.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.66% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality (i)

5.1 Standard geometry (i)

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	AA	0.31	0/36190	0.40	0/56486
1	CA	0.31	0/36190	0.40	0/56486
2	AB	0.38	0/1936	0.84	1/2611 (0.0%)
2	CB	0.37	0/1936	0.83	1/2611 (0.0%)
3	AC	0.36	0/1637	0.77	1/2207 (0.0%)
3	CC	0.35	0/1637	0.76	1/2207 (0.0%)
4	AD	0.44	0/1733	0.90	6/2318 (0.3%)
4	CD	0.45	0/1733	0.91	6/2318 (0.3%)
5	AE	0.50	0/1163	0.96	6/1566 (0.4%)
5	CE	0.50	0/1163	0.96	3/1566 (0.2%)
6	AF	0.47	0/856	0.95	3/1154 (0.3%)
6	CF	0.44	0/856	0.93	0/1154
7	AG	0.35	0/1276	0.77	0/1709
7	CG	0.34	0/1276	0.77	0/1709
8	AH	0.44	0/1136	0.92	5/1527 (0.3%)
8	CH	0.42	0/1136	0.90	6/1527 (0.4%)
9	AI	0.32	0/1028	0.75	0/1375
9	CI	0.33	0/1028	0.75	0/1375
10	AJ	0.38	0/808	0.84	0/1087
10	CJ	0.37	0/808	0.84	0/1087
11	AK	0.44	0/900	0.90	3/1213 (0.2%)
11	CK	0.46	0/900	0.89	2/1213 (0.2%)
12	AL	0.52	0/987	0.98	2/1322 (0.2%)
12	CL	0.54	0/987	0.98	2/1322 (0.2%)
13	AM	0.35	0/928	0.84	1/1238 (0.1%)
13	CM	0.34	0/928	0.84	2/1238 (0.2%)
14	AN	0.32	0/501	0.76	0/664
14	CN	0.33	0/501	0.75	0/664
15	AO	0.49	0/745	0.85	1/992 (0.1%)
15	CO	0.45	0/745	0.85	1/992 (0.1%)
16	AP	0.44	0/717	0.90	1/965 (0.1%)
16	CP	0.47	0/717	0.93	1/965 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	AQ	0.43	0/837	0.89	3/1119 (0.3%)
17	CQ	0.45	0/837	0.92	3/1119 (0.3%)
18	AR	0.45	0/579	0.96	2/768 (0.3%)
18	CR	0.43	0/579	0.96	3/768 (0.4%)
19	AS	0.38	0/643	0.76	1/867 (0.1%)
19	CS	0.37	0/643	0.76	1/867 (0.1%)
20	AT	0.48	0/765	0.90	3/1007 (0.3%)
20	CT	0.50	0/765	0.92	2/1007 (0.2%)
21	AU	0.35	0/213	0.70	0/279
21	CU	0.36	0/213	0.74	0/279
22	B0	0.69	0/658	1.08	4/878 (0.5%)
22	D0	0.59	0/658	1.05	2/878 (0.2%)
23	B1	1.06	4/700 (0.6%)	1.42	11/931 (1.2%)
23	D1	0.96	3/700 (0.4%)	1.37	13/931 (1.4%)
24	B2	0.91	1/423 (0.2%)	1.28	4/560 (0.7%)
24	D2	0.67	0/423	1.21	4/560 (0.7%)
25	B3	0.83	0/473	1.04	0/636
25	D3	0.66	0/473	1.04	0/636
26	B4	0.49	0/156	1.52	3/215 (1.4%)
26	D4	0.51	0/156	1.46	2/215 (0.9%)
27	B5	0.99	0/473	1.79	10/639 (1.6%)
27	D5	0.89	1/473 (0.2%)	1.70	10/639 (1.6%)
28	B6	1.01	0/387	1.41	3/517 (0.6%)
28	D6	0.85	0/387	1.31	1/517 (0.2%)
29	B7	0.81	0/427	1.22	2/563 (0.4%)
29	D7	0.76	0/427	1.15	2/563 (0.4%)
30	B8	0.95	0/516	1.37	4/681 (0.6%)
30	D8	0.78	0/516	1.32	4/681 (0.6%)
31	BA	0.59	4/65745 (0.0%)	0.54	8/102639 (0.0%)
31	DA	0.49	3/65745 (0.0%)	0.54	9/102639 (0.0%)
32	BB	0.48	0/2853	0.46	0/4451
32	DB	0.39	0/2853	0.45	0/4451
33	BD	0.85	1/2155 (0.0%)	1.24	15/2907 (0.5%)
33	DD	0.78	0/2155	1.23	19/2907 (0.7%)
34	BE	0.81	1/1597 (0.1%)	1.22	9/2155 (0.4%)
34	DE	0.71	0/1597	1.18	10/2155 (0.5%)
35	BF	0.80	0/1659	1.12	8/2246 (0.4%)
35	DF	0.65	0/1659	1.11	7/2246 (0.3%)
36	BG	0.45	0/1498	0.90	2/2013 (0.1%)
36	DG	0.39	0/1498	0.89	3/2013 (0.1%)
37	BH	0.76	0/1246	1.16	7/1684 (0.4%)
37	DH	0.53	0/1246	1.11	7/1684 (0.4%)
38	BI	0.54	0/1147	0.90	1/1553 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	DI	0.56	0/1147	0.90	2/1553 (0.1%)
39	BN	0.88	0/1132	1.29	13/1527 (0.9%)
39	DN	0.70	0/1132	1.21	8/1527 (0.5%)
40	BO	0.74	0/943	1.16	8/1269 (0.6%)
40	DO	0.64	0/943	1.10	5/1269 (0.4%)
41	BP	0.91	0/1131	1.43	15/1504 (1.0%)
41	DP	0.75	0/1131	1.39	18/1504 (1.2%)
42	BQ	0.86	2/1100 (0.2%)	1.24	8/1470 (0.5%)
42	DQ	0.76	1/1100 (0.1%)	1.22	10/1470 (0.7%)
43	BR	0.93	3/974 (0.3%)	1.11	3/1302 (0.2%)
43	DR	0.72	0/974	1.06	2/1302 (0.2%)
44	BS	0.65	0/779	1.04	3/1038 (0.3%)
44	DS	0.51	0/779	1.00	4/1038 (0.4%)
45	BT	0.78	1/1114 (0.1%)	1.38	18/1488 (1.2%)
45	DT	0.68	1/1114 (0.1%)	1.37	16/1488 (1.1%)
46	BU	0.92	0/975	1.12	5/1297 (0.4%)
46	DU	0.66	0/975	1.07	5/1297 (0.4%)
47	BV	0.91	1/789 (0.1%)	1.37	8/1054 (0.8%)
47	DV	0.72	0/789	1.28	9/1054 (0.9%)
48	BW	0.90	0/907	1.15	7/1216 (0.6%)
48	DW	0.75	1/907 (0.1%)	1.13	6/1216 (0.5%)
49	BX	0.92	0/740	1.41	15/995 (1.5%)
49	DX	0.81	0/740	1.38	13/995 (1.3%)
50	BY	0.94	2/789 (0.3%)	1.42	13/1053 (1.2%)
50	DY	0.78	0/789	1.36	13/1053 (1.2%)
51	BZ	0.65	0/1436	1.06	12/1951 (0.6%)
51	DZ	0.53	0/1436	1.03	8/1951 (0.4%)
All	All	0.53	30/301000 (0.0%)	0.70	504/449812 (0.1%)

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
23	B1	0	1
23	D1	0	1
24	B2	0	1
24	D2	0	1
27	B5	0	1
27	D5	0	1
28	B6	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
31	BA	19	0
31	DA	19	0
33	BD	0	3
33	DD	0	3
34	BE	0	2
34	DE	0	2
37	BH	0	1
37	DH	0	1
41	BP	0	5
41	DP	0	4
42	BQ	0	1
42	DQ	0	1
43	BR	0	2
43	DR	0	2
44	BS	0	1
44	DS	0	1
45	BT	0	2
45	DT	0	2
46	BU	0	1
47	BV	0	3
47	DV	0	3
49	BX	0	4
49	DX	0	4
All	All	38	55

All (30) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	BR	38	VAL	CA-CB	-8.80	1.49	1.54
31	BA	669	G	C4'-C3'	-8.28	1.40	1.53
50	BY	45	VAL	CA-CB	7.98	1.67	1.54
31	DA	669	G	C4'-C3'	-7.57	1.41	1.53
31	BA	1300	U	C4'-C3'	-7.25	1.42	1.53
45	BT	79	HIS	CA-C	6.80	1.59	1.52
31	DA	1300	U	C4'-C3'	-6.63	1.43	1.53
45	DT	79	HIS	CA-C	6.55	1.59	1.52
42	BQ	7	MET	CA-C	6.51	1.61	1.52
24	B2	19	VAL	CA-CB	6.45	1.63	1.54
23	B1	33	LYS	CA-C	6.39	1.62	1.53
31	BA	1694	C	C4'-C3'	-6.05	1.43	1.52
23	B1	16	ASN	CA-C	6.01	1.59	1.52
42	BQ	79	LEU	CA-C	5.95	1.60	1.52

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	DA	1694	C	C4'-C3'	-5.91	1.43	1.52
33	BD	49	ILE	CA-CB	5.81	1.60	1.54
23	B1	49	VAL	CA-C	5.76	1.60	1.52
50	BY	7	VAL	CA-CB	5.66	1.62	1.54
48	DW	21	VAL	CA-CB	-5.52	1.47	1.54
47	BV	70	ILE	CA-CB	5.44	1.61	1.54
23	D1	16	ASN	CA-C	5.38	1.59	1.52
43	BR	16	HIS	CG-ND1	5.38	1.44	1.38
42	DQ	7	MET	CA-C	5.33	1.59	1.52
27	D5	49	CYS	CA-C	5.20	1.59	1.52
43	BR	16	HIS	ND1-CE1	-5.16	1.27	1.32
23	D1	49	VAL	CA-C	5.15	1.59	1.52
34	BE	165	VAL	CA-CB	-5.11	1.48	1.54
23	B1	35	THR	CA-C	5.07	1.58	1.52
31	BA	652	C	O3'-P	5.05	1.68	1.61
23	D1	35	THR	CA-C	5.02	1.58	1.52

All (504) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	B5	46	CYS	CA-C-N	18.37	142.80	119.84
27	B5	46	CYS	C-N-CA	18.37	142.80	119.84
27	D5	46	CYS	CA-C-N	16.94	141.01	119.84
27	D5	46	CYS	C-N-CA	16.94	141.01	119.84
34	BE	186	GLY	N-CA-C	13.98	124.53	111.67
41	DP	59	LEU	N-CA-C	-13.79	94.48	112.41
41	BP	59	LEU	N-CA-C	-13.16	94.38	112.94
26	B4	28	LYS	CA-C-N	11.59	134.33	119.84
26	B4	28	LYS	C-N-CA	11.59	134.33	119.84
26	D4	28	LYS	CA-C-N	11.49	134.21	119.84
26	D4	28	LYS	C-N-CA	11.49	134.21	119.84
37	BH	167	GLU	CA-C-N	11.39	131.15	119.76
37	BH	167	GLU	C-N-CA	11.39	131.15	119.76
46	BU	97	ASP	N-CA-C	-11.24	99.67	113.50
49	DX	62	LYS	N-CA-C	11.06	126.88	110.30
49	BX	62	LYS	N-CA-C	10.64	126.26	110.30
50	DY	65	ALA	CA-C-N	10.59	133.08	119.84
50	DY	65	ALA	C-N-CA	10.59	133.08	119.84
47	BV	49	THR	CA-C-N	10.44	132.89	119.84
47	BV	49	THR	C-N-CA	10.44	132.89	119.84
50	BY	65	ALA	CA-C-N	10.36	132.78	119.84
50	BY	65	ALA	C-N-CA	10.36	132.78	119.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	DU	97	ASP	N-CA-C	-10.04	101.15	113.50
45	DT	80	SER	CA-C-N	-9.82	107.56	119.84
45	DT	80	SER	C-N-CA	-9.82	107.56	119.84
45	BT	80	SER	CA-C-N	-9.74	107.66	119.84
45	BT	80	SER	C-N-CA	-9.74	107.66	119.84
47	DV	49	THR	CA-C-N	9.72	131.99	119.84
47	DV	49	THR	C-N-CA	9.72	131.99	119.84
45	DT	29	ARG	N-CA-C	9.67	121.44	108.38
45	BT	29	ARG	N-CA-C	9.60	121.34	108.38
42	DQ	10	ARG	N-CA-C	9.36	121.65	108.74
23	B1	33	LYS	N-CA-C	9.35	122.39	110.33
27	B5	4	HIS	CA-C-N	-9.35	110.41	119.76
27	B5	4	HIS	C-N-CA	-9.35	110.41	119.76
42	BQ	10	ARG	N-CA-C	9.28	121.55	108.74
49	DX	87	GLN	N-CA-C	9.28	123.90	109.52
37	DH	167	GLU	CA-C-N	9.21	128.97	119.76
37	DH	167	GLU	C-N-CA	9.21	128.97	119.76
45	DT	23	ARG	CA-C-N	9.04	131.13	119.84
45	DT	23	ARG	C-N-CA	9.04	131.13	119.84
39	BN	94	HIS	CA-C-N	8.95	128.68	119.64
39	BN	94	HIS	C-N-CA	8.95	128.68	119.64
45	BT	23	ARG	CA-C-N	8.56	130.55	119.84
45	BT	23	ARG	C-N-CA	8.56	130.55	119.84
33	BD	243	GLY	N-CA-C	-8.52	102.04	116.01
4	CD	171	GLY	CA-C-N	8.38	128.49	119.28
4	CD	171	GLY	C-N-CA	8.38	128.49	119.28
41	DP	116	GLY	N-CA-C	8.37	126.07	111.50
27	D5	4	HIS	CA-C-N	-8.33	111.43	119.76
27	D5	4	HIS	C-N-CA	-8.33	111.43	119.76
41	DP	71	VAL	CA-C-N	-8.29	109.48	119.84
41	DP	71	VAL	C-N-CA	-8.29	109.48	119.84
45	DT	4	GLY	N-CA-C	-8.29	102.61	112.64
49	BX	5	TYR	N-CA-C	-8.27	103.30	112.72
41	BP	116	GLY	N-CA-C	8.16	125.69	111.50
36	DG	125	PHE	N-CA-C	-8.16	102.08	110.97
33	BD	237	GLU	N-CA-C	8.14	121.58	110.35
49	BX	87	GLN	N-CA-C	8.14	122.14	109.52
44	DS	16	ASN	N-CA-C	-8.14	101.97	112.23
22	B0	13	GLY	N-CA-C	-8.10	103.42	112.33
45	DT	76	PHE	CA-C-N	8.02	129.86	119.84
45	DT	76	PHE	C-N-CA	8.02	129.86	119.84
33	DD	243	GLY	N-CA-C	-8.00	102.89	116.01

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	AD	171	GLY	CA-C-N	7.98	128.06	119.28
4	AD	171	GLY	C-N-CA	7.98	128.06	119.28
36	BG	125	PHE	N-CA-C	-7.96	102.30	110.97
39	DN	94	HIS	CA-C-N	7.93	127.66	119.64
39	DN	94	HIS	C-N-CA	7.93	127.66	119.64
23	B1	16	ASN	N-CA-C	7.92	122.47	109.24
41	BP	71	VAL	CA-C-N	-7.84	110.03	119.84
41	BP	71	VAL	C-N-CA	-7.84	110.03	119.84
29	B7	6	GLN	CA-C-N	7.83	128.31	119.93
29	B7	6	GLN	C-N-CA	7.83	128.31	119.93
45	BT	4	GLY	N-CA-C	-7.82	103.18	112.64
47	BV	65	GLY	N-CA-C	-7.81	102.54	112.54
41	BP	37	GLY	N-CA-C	7.80	131.66	113.18
49	BX	61	GLY	N-CA-C	7.76	121.38	111.37
29	D7	6	GLN	CA-C-N	7.71	128.18	119.93
29	D7	6	GLN	C-N-CA	7.71	128.18	119.93
40	BO	118	ALA	CA-C-N	7.69	126.97	118.97
40	BO	118	ALA	C-N-CA	7.69	126.97	118.97
41	DP	52	GLU	N-CA-C	7.69	127.18	110.80
47	DV	65	GLY	N-CA-C	-7.64	102.76	112.54
45	DT	30	VAL	N-CA-C	7.60	119.86	108.23
45	BT	30	VAL	N-CA-C	7.60	119.52	108.58
23	D1	33	LYS	N-CA-C	7.59	120.12	110.33
35	BF	71	GLY	N-CA-C	-7.57	104.58	115.64
23	D1	35	THR	N-CA-C	7.54	121.50	108.76
23	D1	16	ASN	N-CA-C	7.45	121.68	109.24
45	BT	30	VAL	CB-CA-C	-7.43	101.69	110.91
15	CO	45	VAL	CB-CA-C	-7.42	105.41	111.71
27	B5	31	VAL	CA-C-N	7.41	129.11	119.84
27	B5	31	VAL	C-N-CA	7.41	129.11	119.84
33	BD	158	ALA	N-CA-C	7.41	120.80	111.69
45	BT	76	PHE	CA-C-N	7.40	129.09	119.84
45	BT	76	PHE	C-N-CA	7.40	129.09	119.84
35	DF	83	PHE	N-CA-C	7.38	123.41	113.97
49	BX	64	LYS	N-CA-C	7.37	120.40	108.32
49	DX	61	GLY	N-CA-C	7.36	121.30	110.63
44	BS	32	LEU	N-CA-C	-7.35	104.92	114.04
17	CQ	29	HIS	CA-C-N	7.33	129.01	119.84
17	CQ	29	HIS	C-N-CA	7.33	129.01	119.84
41	DP	37	GLY	N-CA-C	7.29	130.46	113.18
45	DT	14	TYR	N-CA-C	-7.29	104.41	112.72
33	DD	256	GLY	N-CA-C	7.29	124.67	115.42

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
45	BT	128	GLU	N-CA-C	-7.26	103.51	112.88
12	AL	26	ALA	N-CA-C	-7.26	104.86	113.21
12	CL	26	ALA	N-CA-C	-7.26	104.86	113.21
15	AO	45	VAL	CB-CA-C	-7.25	104.55	111.44
44	BS	16	ASN	N-CA-C	-7.24	103.11	112.23
24	B2	53	LEU	N-CA-C	-7.24	100.22	110.35
46	DU	27	LEU	N-CA-C	-7.23	104.46	113.20
28	B6	48	VAL	N-CA-C	7.21	120.17	112.96
49	DX	39	ILE	N-CA-C	-7.20	102.50	112.50
23	B1	35	THR	N-CA-C	7.18	120.89	108.76
34	DE	132	HIS	CA-C-N	-7.18	111.31	122.37
34	DE	132	HIS	C-N-CA	-7.18	111.31	122.37
45	BT	80	SER	N-CA-C	7.16	125.62	109.81
49	DX	5	TYR	N-CA-C	-7.15	104.57	112.72
40	DO	118	ALA	CA-C-N	7.14	126.39	118.97
40	DO	118	ALA	C-N-CA	7.14	126.39	118.97
49	BX	61	GLY	CA-C-N	7.11	132.56	121.26
49	BX	61	GLY	C-N-CA	7.11	132.56	121.26
48	BW	6	ILE	CB-CA-C	-7.10	99.65	111.29
37	DH	111	HIS	CA-C-N	7.04	127.02	119.76
37	DH	111	HIS	C-N-CA	7.04	127.02	119.76
8	AH	134	ILE	N-CA-C	7.04	117.18	110.42
34	BE	132	HIS	CA-C-N	-7.04	111.58	122.49
34	BE	132	HIS	C-N-CA	-7.04	111.58	122.49
41	BP	52	GLU	N-CA-C	7.04	125.80	110.80
33	DD	237	GLU	N-CA-C	7.03	120.76	109.79
50	DY	8	LYS	N-CA-C	7.03	120.61	109.65
49	BX	39	ILE	N-CA-C	-7.00	102.77	112.50
4	AD	38	TYR	CA-C-N	6.99	127.58	120.38
4	AD	38	TYR	C-N-CA	6.99	127.58	120.38
17	AQ	29	HIS	CA-C-N	6.99	128.58	119.84
17	AQ	29	HIS	C-N-CA	6.99	128.58	119.84
8	CH	56	LYS	CA-C-N	6.98	128.56	119.84
8	CH	56	LYS	C-N-CA	6.98	128.56	119.84
51	BZ	93	ASP	N-CA-C	-6.96	104.30	114.39
47	BV	28	GLU	CA-C-N	-6.95	112.78	120.14
47	BV	28	GLU	C-N-CA	-6.95	112.78	120.14
33	BD	180	GLY	N-CA-C	-6.93	104.94	114.64
47	BV	19	LYS	N-CA-C	6.93	118.88	107.73
27	D5	27	PRO	O-C-N	6.93	124.41	121.15
48	DW	12	ILE	N-CA-C	-6.92	98.19	108.99
48	DW	6	ILE	CB-CA-C	-6.92	99.95	111.29

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	BX	80	ILE	CB-CA-C	-6.91	102.98	112.24
45	DT	80	SER	N-CA-C	6.90	125.06	109.81
50	BY	75	ILE	N-CA-C	6.89	117.53	107.75
4	CD	11	LEU	N-CA-C	-6.89	104.51	113.12
50	DY	55	TYR	CA-C-N	6.86	128.42	119.84
50	DY	55	TYR	C-N-CA	6.86	128.42	119.84
48	BW	17	VAL	CB-CA-C	-6.86	103.05	112.24
37	BH	111	HIS	CA-C-N	6.82	126.78	119.76
37	BH	111	HIS	C-N-CA	6.82	126.78	119.76
24	D2	53	LEU	N-CA-C	-6.80	100.83	110.35
30	B8	19	SER	N-CA-C	-6.79	104.74	113.16
26	B4	26	SER	N-CA-C	-6.79	103.97	113.20
51	DZ	93	ASP	N-CA-C	-6.79	104.55	114.39
23	D1	93	GLU	N-CA-C	-6.78	104.01	113.37
45	DT	128	GLU	N-CA-C	-6.75	104.17	112.88
40	BO	63	VAL	CB-CA-C	-6.74	103.34	110.62
39	DN	5	VAL	CA-C-N	6.73	129.34	120.25
39	DN	5	VAL	C-N-CA	6.73	129.34	120.25
2	AB	23	ARG	N-CA-C	-6.72	104.97	112.57
47	BV	63	GLY	N-CA-C	-6.72	103.36	112.57
22	D0	13	GLY	N-CA-C	-6.69	104.97	112.33
39	BN	35	ARG	N-CA-C	-6.69	101.06	110.50
39	BN	5	VAL	CA-C-N	6.69	129.28	120.25
39	BN	5	VAL	C-N-CA	6.69	129.28	120.25
4	CD	38	TYR	CA-C-N	6.68	127.26	120.38
4	CD	38	TYR	C-N-CA	6.68	127.26	120.38
33	DD	180	GLY	N-CA-C	-6.66	106.26	114.92
47	DV	28	GLU	CA-C-N	-6.65	113.09	120.14
47	DV	28	GLU	C-N-CA	-6.65	113.09	120.14
50	BY	8	LYS	N-CA-C	6.65	120.02	109.65
48	DW	17	VAL	CB-CA-C	-6.63	103.35	112.24
18	AR	81	PHE	N-CA-C	-6.63	105.00	113.23
46	BU	95	LEU	N-CA-C	6.62	121.03	113.15
41	BP	115	LEU	N-CA-C	6.60	116.98	108.34
51	BZ	110	GLY	N-CA-C	-6.59	97.56	113.18
41	BP	58	THR	N-CA-C	-6.59	96.77	110.80
45	DT	108	ARG	N-CA-C	-6.58	105.39	113.41
49	BX	78	LYS	N-CA-C	6.57	120.21	109.76
35	DF	64	ILE	N-CA-C	6.56	119.29	111.09
50	DY	63	LYS	N-CA-C	6.55	117.79	108.74
51	BZ	61	LEU	CA-C-N	6.53	126.22	119.56
51	BZ	61	LEU	C-N-CA	6.53	126.22	119.56

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	AE	113	ALA	N-CA-C	-6.51	105.30	113.18
34	DE	31	CYS	CA-C-N	6.51	126.73	119.90
34	DE	31	CYS	C-N-CA	6.51	126.73	119.90
33	DD	158	ALA	N-CA-C	6.51	120.43	112.23
23	B1	93	GLU	N-CA-C	-6.47	104.44	113.37
47	DV	19	LYS	N-CA-C	6.46	118.13	107.73
33	BD	256	GLY	N-CA-C	6.46	123.62	115.42
27	D5	31	VAL	CA-C-N	6.46	127.91	119.84
27	D5	31	VAL	C-N-CA	6.46	127.91	119.84
8	AH	56	LYS	CA-C-N	6.45	127.91	119.84
8	AH	56	LYS	C-N-CA	6.45	127.91	119.84
48	DW	86	LEU	CA-C-N	6.45	126.21	119.76
48	DW	86	LEU	C-N-CA	6.45	126.21	119.76
41	DP	115	LEU	N-CA-C	6.42	116.55	108.45
48	BW	12	ILE	N-CA-C	-6.42	98.98	108.99
50	BY	55	TYR	CA-C-N	6.39	127.83	119.84
50	BY	55	TYR	C-N-CA	6.39	127.83	119.84
31	BA	1544	A	N9-C1'-C2'	6.38	121.58	112.00
44	DS	32	LEU	N-CA-C	-6.38	106.13	114.04
51	DZ	61	LEU	CA-C-N	6.37	126.05	119.56
51	DZ	61	LEU	C-N-CA	6.37	126.05	119.56
31	DA	1544	A	N9-C1'-C2'	6.36	121.55	112.00
45	BT	14	TYR	N-CA-C	-6.36	105.10	112.92
30	B8	33	ASN	N-CA-C	-6.34	97.30	110.80
45	DT	91	ARG	CA-C-O	6.31	122.31	118.33
5	CE	113	ALA	N-CA-C	-6.25	105.61	113.18
45	BT	91	ARG	CA-C-O	6.24	122.26	118.33
48	BW	86	LEU	CA-C-N	6.23	125.99	119.76
48	BW	86	LEU	C-N-CA	6.23	125.99	119.76
23	B1	55	GLY	N-CA-C	-6.21	98.46	113.18
20	CT	12	ALA	N-CA-C	-6.18	105.74	113.28
51	DZ	110	GLY	N-CA-C	-6.18	98.54	113.18
34	DE	11	MET	N-CA-C	6.17	119.59	109.85
51	BZ	175	VAL	N-CA-C	6.16	115.97	109.01
33	DD	85	ASP	CA-C-N	6.16	126.27	119.87
33	DD	85	ASP	C-N-CA	6.16	126.27	119.87
41	DP	30	THR	N-CA-C	6.13	118.02	109.31
41	BP	97	PRO	N-CA-C	-6.13	101.64	111.38
47	DV	63	GLY	N-CA-C	-6.12	103.23	112.41
49	DX	61	GLY	CA-C-N	6.12	130.99	121.26
49	DX	61	GLY	C-N-CA	6.12	130.99	121.26
23	D1	58	ILE	N-CA-C	6.11	117.39	108.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	DV	85	LYS	N-CA-C	-6.11	105.85	113.55
33	DD	212	SER	N-CA-C	-6.09	104.75	111.82
50	BY	63	LYS	N-CA-C	6.09	117.44	108.86
49	DX	78	LYS	N-CA-C	6.09	119.44	109.76
49	DX	64	LYS	N-CA-C	6.08	119.43	108.48
33	BD	238	GLY	N-CA-C	-6.08	98.76	113.18
40	DO	51	ALA	N-CA-C	-6.08	105.57	112.87
50	DY	49	VAL	N-CA-C	-6.08	107.94	113.71
20	AT	12	ALA	N-CA-C	-6.07	105.88	113.28
47	BV	49	THR	N-CA-C	6.07	120.25	108.85
33	BD	49	ILE	N-CA-CB	6.06	117.77	110.31
50	DY	13	VAL	N-CA-C	6.06	118.45	108.99
40	BO	51	ALA	N-CA-C	-6.06	105.60	112.87
42	DQ	81	VAL	N-CA-C	6.04	121.91	109.34
50	BY	5	MET	N-CA-C	6.04	119.35	110.59
42	BQ	81	VAL	N-CA-C	6.03	121.88	109.34
51	BZ	86	VAL	CB-CA-C	-6.03	101.63	110.62
31	BA	2662	A	N9-C1'-C2'	6.03	121.04	112.00
2	CB	23	ARG	N-CA-C	-6.02	105.76	112.57
18	AR	32	ARG	N-CA-C	-6.02	106.91	114.56
35	DF	71	GLY	N-CA-C	-6.01	106.95	115.43
41	BP	126	VAL	CB-CA-C	-5.98	103.72	110.96
24	B2	17	SER	CA-C-N	-5.96	112.39	119.84
24	B2	17	SER	C-N-CA	-5.96	112.39	119.84
50	DY	75	ILE	N-CA-C	5.96	116.21	107.75
42	DQ	93	TYR	N-CA-C	5.95	118.90	109.50
34	BE	31	CYS	CA-C-N	5.95	126.15	119.90
34	BE	31	CYS	C-N-CA	5.95	126.15	119.90
30	D8	33	ASN	N-CA-C	-5.95	98.13	110.80
31	DA	2662	A	N9-C1'-C2'	5.94	120.91	112.00
33	BD	43	ARG	N-CA-C	5.94	120.26	112.89
41	DP	139	LYS	N-CA-C	-5.93	105.14	112.38
35	BF	205	ARG	N-CA-C	-5.93	104.94	111.82
38	BI	101	LEU	N-CA-C	-5.93	106.18	113.41
16	CP	19	ILE	CB-CA-C	-5.92	105.52	111.80
33	DD	49	ILE	N-CA-CB	5.92	117.58	110.31
45	BT	5	ALA	N-CA-C	5.91	117.73	111.28
35	BF	64	ILE	N-CA-C	5.91	118.48	111.09
38	DI	109	ILE	N-CA-C	5.91	116.14	107.75
23	B1	58	ILE	N-CA-C	5.89	117.08	108.53
30	B8	37	SER	N-CA-C	5.89	123.36	110.80
35	DF	205	ARG	N-CA-C	-5.88	105.00	111.82

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
43	BR	8	ARG	N-CA-C	5.88	123.32	110.80
42	BQ	132	VAL	N-CA-C	5.87	116.82	108.42
31	BA	1934	C	C4'-C3'-C2'	5.85	108.45	102.60
18	CR	81	PHE	N-CA-C	-5.84	106.15	113.28
33	DD	107	ALA	CA-C-N	5.84	127.03	120.66
33	DD	107	ALA	C-N-CA	5.84	127.03	120.66
49	BX	80	ILE	N-CA-C	5.84	117.37	111.00
45	DT	30	VAL	CB-CA-C	-5.84	103.90	110.96
34	BE	116	VAL	N-CA-C	-5.83	100.56	109.78
11	AK	38	ASN	CA-C-N	5.83	126.17	119.93
11	AK	38	ASN	C-N-CA	5.83	126.17	119.93
34	BE	11	MET	N-CA-C	5.83	119.07	109.85
31	DA	1934	C	C4'-C3'-C2'	5.83	108.43	102.60
39	DN	131	GLN	N-CA-C	5.83	118.45	109.07
31	BA	1697	G	C4'-C3'-C2'	5.82	108.42	102.60
40	BO	15	GLY	N-CA-C	-5.82	107.77	114.69
49	BX	62	LYS	CB-CA-C	-5.81	101.98	110.06
24	D2	17	SER	CA-C-N	-5.80	112.58	119.84
24	D2	17	SER	C-N-CA	-5.80	112.58	119.84
41	BP	16	ARG	N-CA-C	-5.79	104.33	111.40
39	BN	131	GLN	N-CA-C	5.77	118.36	109.07
35	BF	89	VAL	CA-C-N	-5.77	113.67	122.21
35	BF	89	VAL	C-N-CA	-5.77	113.67	122.21
44	BS	52	SER	N-CA-C	5.77	117.00	108.86
42	DQ	132	VAL	N-CA-C	5.75	116.64	108.42
46	BU	72	HIS	N-CA-C	-5.75	106.17	112.72
20	CT	11	SER	N-CA-C	5.75	123.04	110.80
5	CE	35	GLY	N-CA-C	5.74	119.71	110.87
27	D5	45	VAL	CB-CA-C	-5.74	103.36	111.28
44	DS	52	SER	N-CA-C	5.74	116.95	108.86
8	CH	134	ILE	N-CA-C	5.73	115.92	110.42
31	DA	1697	G	C4'-C3'-C2'	5.72	108.32	102.60
50	DY	5	MET	N-CA-C	5.71	118.87	110.59
37	DH	67	LEU	N-CA-C	-5.71	104.26	111.11
41	DP	128	HIS	N-CA-C	-5.71	106.95	114.31
33	BD	85	ASP	CA-C-N	5.70	125.80	119.87
33	BD	85	ASP	C-N-CA	5.70	125.80	119.87
40	BO	94	ARG	N-CA-C	-5.70	105.82	112.89
11	CK	53	SER	N-CA-C	-5.70	105.43	112.90
51	DZ	86	VAL	CB-CA-C	-5.70	102.13	110.62
5	AE	35	GLY	N-CA-C	5.70	119.64	110.87
31	DA	472	A	C4'-C3'-C2'	5.70	108.30	102.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	BY	46	LYS	N-CA-C	5.69	122.93	110.80
27	B5	27	PRO	O-C-N	5.69	123.82	121.15
30	D8	49	VAL	N-CA-C	-5.67	100.14	108.99
50	BY	43	ASN	N-CA-C	5.67	122.00	114.12
50	BY	7	VAL	N-CA-C	5.67	121.13	109.34
23	B1	51	VAL	N-CA-C	5.66	116.75	107.24
27	B5	51	TYR	CA-CB-CG	5.65	124.08	113.90
20	AT	11	SER	N-CA-C	5.65	122.84	110.80
50	BY	6	HIS	N-CA-C	5.65	115.85	107.88
33	DD	46	GLN	N-CA-C	5.65	117.66	108.63
50	DY	43	ASN	N-CA-C	5.65	121.97	114.12
33	DD	118	VAL	CB-CA-C	-5.64	106.43	111.74
49	DX	62	LYS	CB-CA-C	-5.64	102.22	110.06
18	CR	32	ARG	N-CA-C	-5.64	107.40	114.56
27	B5	10	LYS	N-CA-C	-5.62	102.31	110.24
39	DN	21	LYS	N-CA-C	5.61	118.12	110.55
34	DE	25	VAL	N-CA-C	5.61	115.93	107.80
41	BP	38	GLN	N-CA-C	5.60	122.74	110.80
45	BT	91	ARG	CB-CA-C	-5.60	108.29	116.53
23	D1	34	THR	N-CA-C	5.60	118.59	109.06
49	BX	59	VAL	N-CA-C	5.60	120.98	109.34
48	DW	69	LEU	N-CA-C	5.59	118.92	109.76
51	BZ	30	ASN	N-CA-C	-5.57	101.05	108.74
35	BF	83	PHE	N-CA-C	5.57	121.09	113.97
45	DT	91	ARG	CB-CA-C	-5.56	108.35	116.53
37	BH	67	LEU	N-CA-C	-5.56	104.44	111.11
42	BQ	62	GLY	N-CA-C	5.56	126.35	113.18
50	BY	49	VAL	N-CA-C	-5.56	108.43	113.71
36	BG	3	LEU	N-CA-C	-5.55	106.63	113.41
5	CE	11	ILE	N-CA-C	5.55	115.69	110.30
41	DP	53	GLY	N-CA-C	-5.55	100.04	113.18
31	BA	472	A	C4'-C3'-C2'	5.54	108.14	102.60
39	DN	25	ARG	N-CA-C	-5.54	104.87	111.69
45	BT	86	ILE	N-CA-C	5.54	117.61	109.63
5	AE	11	ILE	N-CA-C	5.54	115.67	110.30
8	AH	100	ILE	CA-C-N	5.52	125.47	119.78
8	AH	100	ILE	C-N-CA	5.52	125.47	119.78
37	BH	41	MET	N-CA-C	5.52	122.56	110.80
36	DG	3	LEU	N-CA-C	-5.52	106.67	113.41
51	BZ	100	VAL	CA-C-N	5.52	126.74	119.84
51	BZ	100	VAL	C-N-CA	5.52	126.74	119.84
33	BD	229	VAL	CB-CA-C	-5.52	104.00	112.05

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	DP	19	VAL	N-CA-C	5.52	114.55	106.55
23	D1	43	TYR	N-CA-C	-5.51	97.63	109.81
3	AC	75	VAL	N-CA-C	-5.51	107.90	113.47
23	B1	34	THR	N-CA-C	5.51	118.42	109.06
4	CD	12	CYS	N-CA-C	-5.50	102.29	111.37
39	DN	35	ARG	N-CA-C	-5.50	102.14	110.28
51	DZ	30	ASN	N-CA-C	-5.48	101.17	108.74
51	DZ	175	VAL	N-CA-C	5.48	115.20	109.01
43	DR	38	VAL	O-C-N	5.47	123.92	120.42
42	BQ	57	HIS	CA-C-N	-5.47	115.70	123.03
42	BQ	57	HIS	C-N-CA	-5.47	115.70	123.03
23	D1	55	GLY	N-CA-C	-5.45	100.26	113.18
42	DQ	78	PRO	CA-C-O	-5.45	117.18	121.38
39	BN	110	GLY	CA-C-N	5.44	124.90	119.24
39	BN	110	GLY	C-N-CA	5.44	124.90	119.24
50	DY	7	VAL	N-CA-C	5.44	120.65	109.34
46	BU	92	ARG	N-CA-C	-5.44	99.22	110.80
49	DX	80	ILE	N-CA-C	5.43	116.92	111.00
37	DH	41	MET	N-CA-C	5.43	122.36	110.80
49	BX	75	ASP	N-CA-C	-5.42	99.25	110.80
4	AD	11	LEU	N-CA-C	-5.41	104.93	112.45
3	CC	75	VAL	N-CA-C	-5.41	108.01	113.47
34	BE	168	MET	N-CA-C	5.41	118.55	109.95
46	BU	70	ARG	N-CA-C	-5.40	105.79	112.38
39	BN	130	HIS	CA-C-N	-5.40	115.55	123.00
39	BN	130	HIS	C-N-CA	-5.40	115.55	123.00
31	BA	1609	A	C3'-C2'-C1'	5.40	106.90	101.50
33	DD	247	ALA	N-CA-C	5.39	117.18	109.14
31	BA	1992	G	C2'-C3'-O3'	5.39	117.58	109.50
33	BD	233	HIS	N-CA-C	-5.39	103.51	110.19
41	DP	58	THR	N-CA-C	-5.38	99.34	110.80
43	BR	6	SER	N-CA-C	5.38	117.15	109.14
46	DU	95	LEU	N-CA-C	5.38	119.55	113.15
28	B6	25	LYS	N-CA-C	5.37	116.84	107.49
39	BN	25	ARG	N-CA-C	-5.37	105.50	111.36
23	D1	43	TYR	CA-C-N	5.37	126.55	119.84
23	D1	43	TYR	C-N-CA	5.37	126.55	119.84
50	DY	46	LYS	N-CA-C	5.37	122.24	110.80
22	D0	11	ARG	N-CA-C	-5.37	107.74	114.56
37	DH	113	VAL	N-CA-C	5.36	115.36	107.15
11	AK	53	SER	N-CA-C	-5.36	105.88	112.90
41	BP	19	VAL	N-CA-C	5.36	114.32	106.55

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	AL	46	LYS	N-CA-C	5.35	113.17	108.78
33	DD	238	GLY	N-CA-C	-5.35	100.50	113.18
49	DX	80	ILE	CB-CA-C	-5.35	105.07	112.24
35	DF	68	LYS	N-CA-C	5.35	121.35	114.56
30	D8	37	SER	N-CA-C	5.34	122.18	110.80
33	BD	210	GLY	N-CA-C	-5.34	100.53	113.18
33	DD	233	HIS	N-CA-C	-5.33	103.85	110.41
40	DO	63	VAL	CB-CA-C	-5.33	105.06	110.93
48	BW	69	LEU	N-CA-C	5.33	118.50	109.76
33	BD	224	ALA	N-CA-C	-5.33	101.76	109.59
16	AP	19	ILE	CB-CA-C	-5.32	106.16	111.80
27	B5	45	VAL	CB-CA-C	-5.32	103.94	111.28
51	BZ	176	PRO	CA-C-N	5.32	126.48	119.84
51	BZ	176	PRO	C-N-CA	5.32	126.48	119.84
42	DQ	137	TYR	N-CA-C	5.32	117.38	109.25
45	BT	108	ARG	N-CA-C	-5.31	106.48	113.12
34	DE	142	GLY	N-CA-C	5.31	120.14	111.27
33	BD	127	VAL	N-CA-C	5.30	116.24	109.30
19	CS	58	VAL	N-CA-C	5.30	112.38	107.56
30	B8	49	VAL	N-CA-C	-5.30	100.73	108.99
31	BA	2796	U	N1-C1'-C2'	5.30	119.94	112.00
51	DZ	148	ASP	N-CA-C	5.29	118.32	109.96
35	DF	23	ASP	N-CA-C	-5.29	106.80	113.20
28	D6	25	LYS	N-CA-C	5.28	116.68	107.49
38	DI	101	LEU	N-CA-C	-5.28	106.52	113.12
40	DO	3	GLN	N-CA-C	5.28	114.21	108.14
31	DA	1397	U	C2'-C3'-O3'	5.28	117.41	109.50
22	B0	11	ARG	N-CA-C	-5.27	107.87	114.56
28	B6	24	GLU	CB-CA-C	-5.27	106.91	114.87
49	DX	59	VAL	N-CA-C	5.27	120.30	109.34
4	AD	12	CYS	N-CA-C	-5.27	102.68	111.37
27	D5	51	TYR	CA-CB-CG	5.27	123.38	113.90
12	CL	46	LYS	CA-C-O	5.25	120.99	117.94
51	BZ	148	ASP	N-CA-C	5.25	118.26	109.96
35	BF	23	ASP	N-CA-C	-5.25	106.65	113.16
47	DV	49	THR	N-CA-C	5.25	118.67	107.91
33	DD	210	GLY	N-CA-C	-5.24	100.76	113.18
34	DE	44	TYR	N-CA-C	5.24	121.95	110.80
41	BP	128	HIS	N-CA-C	-5.23	107.56	114.31
30	D8	35	GLN	N-CA-C	5.23	121.94	110.80
24	D2	44	LEU	N-CA-C	5.22	118.11	111.69
35	BF	68	LYS	N-CA-C	5.22	121.19	114.56

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	DA	2796	U	N1-C1'-C2'	5.22	119.83	112.00
8	CH	100	ILE	CA-C-N	5.21	125.15	119.78
8	CH	100	ILE	C-N-CA	5.21	125.15	119.78
31	DA	1609	A	C3'-C2'-C1'	5.20	106.70	101.50
33	DD	224	ALA	N-CA-C	-5.20	101.94	109.59
19	AS	58	VAL	N-CA-C	5.20	112.29	107.56
41	DP	10	PRO	N-CA-C	-5.20	101.76	112.47
6	AF	60	PHE	N-CA-C	5.20	117.71	109.24
22	B0	46	LYS	CA-C-N	5.20	125.36	119.90
22	B0	46	LYS	C-N-CA	5.20	125.36	119.90
43	DR	8	ARG	N-CA-C	5.19	121.86	110.80
41	DP	60	MET	N-CA-C	-5.18	105.70	112.23
34	DE	47	VAL	CB-CA-C	-5.18	102.90	110.62
41	DP	97	PRO	N-CA-C	-5.18	102.98	111.21
6	AF	11	ASN	CA-C-N	5.18	124.49	118.85
6	AF	11	ASN	C-N-CA	5.18	124.49	118.85
33	DD	41	GLY	N-CA-C	-5.18	100.91	113.18
27	D5	3	LYS	N-CA-C	5.17	114.86	108.19
37	BH	99	VAL	N-CA-C	5.17	114.72	107.37
49	BX	60	ARG	N-CA-C	5.17	121.81	110.80
18	CR	44	LEU	N-CA-C	5.17	118.80	112.03
48	BW	6	ILE	N-CA-C	5.16	120.08	109.34
44	DS	68	GLN	N-CA-C	-5.16	105.15	111.75
42	BQ	137	TYR	N-CA-C	5.16	117.14	109.25
17	AQ	91	ARG	N-CA-C	-5.15	104.93	111.11
23	B1	8	SER	N-CA-C	-5.15	96.58	111.00
41	DP	38	GLN	N-CA-C	5.15	121.76	110.80
39	BN	118	LYS	N-CA-C	-5.12	105.78	111.36
13	CM	66	LEU	CA-C-O	5.12	120.91	117.94
23	B1	78	LYS	N-CA-C	-5.10	107.22	112.93
46	DU	92	ARG	N-CA-C	-5.09	99.95	110.80
42	BQ	76	LYS	N-CA-C	5.09	116.67	108.32
23	D1	78	LYS	N-CA-C	-5.08	107.24	112.93
24	B2	15	LYS	N-CA-C	-5.08	102.53	110.10
42	DQ	87	LYS	N-CA-C	-5.08	105.25	111.75
8	CH	100	ILE	N-CA-C	5.08	113.92	108.95
31	DA	1992	G	C2'-C3'-O3'	5.07	117.11	109.50
42	DQ	62	GLY	N-CA-C	5.07	125.20	113.18
34	DE	152	LYS	N-CA-C	-5.06	102.37	109.96
13	AM	66	LEU	CA-C-O	5.06	120.87	117.94
5	AE	92	LYS	CA-C-N	5.06	124.97	119.76
5	AE	92	LYS	C-N-CA	5.06	124.97	119.76

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	CQ	91	ARG	N-CA-C	-5.06	105.04	111.11
41	BP	139	LYS	N-CA-C	-5.05	106.22	112.38
36	DG	45	GLU	N-CA-C	5.05	116.09	108.07
34	BE	44	TYR	N-CA-C	5.04	121.53	110.80
35	DF	6	VAL	N-CA-C	5.04	119.81	109.34
11	CK	75	TYR	N-CA-C	-5.03	106.39	112.88
42	DQ	57	HIS	CA-C-N	-5.02	116.30	123.03
42	DQ	57	HIS	C-N-CA	-5.02	116.30	123.03
23	D1	11	ARG	CA-C-N	-5.02	114.49	119.56
23	D1	11	ARG	C-N-CA	-5.02	114.49	119.56
46	DU	72	HIS	N-CA-C	-5.02	107.00	112.72
41	DP	16	ARG	N-CA-C	-5.02	105.52	111.69
43	BR	57	ARG	N-CA-C	-5.01	104.24	110.41
23	B1	43	TYR	N-CA-C	-5.01	98.73	109.81
39	BN	136	GLU	N-CA-C	5.01	117.43	109.96
40	BO	100	GLY	CA-C-N	5.01	124.99	120.03
40	BO	100	GLY	C-N-CA	5.01	124.99	120.03
5	AE	101	ILE	N-CA-C	5.01	114.49	106.88
13	CM	66	LEU	CB-CA-C	-5.01	109.86	117.07
20	AT	9	ASN	N-CA-C	5.01	121.46	110.80

All (38) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
31	BA	100	G	C1’
31	BA	472	A	C3’
31	BA	669	G	C3’,C1’,C4’
31	BA	945	A	C1’
31	BA	1300	U	C3’,C1’,C4’
31	BA	1379	A	C1’
31	BA	1544	A	C1’
31	BA	1609	A	C2’
31	BA	1694	C	C3’,C4’
31	BA	1697	G	C3’
31	BA	1934	C	C3’
31	BA	2286	A	C1’
31	BA	2662	A	C1’
31	BA	2796	U	C1’
31	DA	100	G	C1’
31	DA	472	A	C3’
31	DA	669	G	C3’,C1’,C4’
31	DA	945	A	C1’

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atom
31	DA	1300	U	C3',C1',C4'
31	DA	1379	A	C1'
31	DA	1544	A	C1'
31	DA	1609	A	C2'
31	DA	1694	C	C3',C4'
31	DA	1697	G	C3'
31	DA	1934	C	C3'
31	DA	2286	A	C1'
31	DA	2662	A	C1'
31	DA	2796	U	C1'

All (55) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
23	B1	30	VAL	Peptide
24	B2	55	ARG	Peptide
27	B5	51	TYR	Peptide
28	B6	47	THR	Peptide
33	BD	237	GLU	Peptide
33	BD	244	ARG	Peptide
33	BD	47	GLY	Peptide
34	BE	131	ALA	Peptide
34	BE	76	ARG	Peptide
37	BH	156	ALA	Peptide
41	BP	37	GLY	Peptide
41	BP	39	LYS	Peptide
41	BP	51	PHE	Peptide
41	BP	57	THR	Peptide
41	BP	9	ASN	Peptide
42	BQ	10	ARG	Peptide
43	BR	5	LYS	Peptide
43	BR	7	GLY	Peptide
44	BS	88	ASP	Peptide
45	BT	29	ARG	Peptide
45	BT	79	HIS	Peptide
46	BU	95	LEU	Peptide
47	BV	18	LEU	Peptide
47	BV	81	TYR	Peptide
47	BV	87	HIS	Peptide
49	BX	38	GLU	Peptide
49	BX	64	LYS	Peptide
49	BX	76	ARG	Peptide

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
49	BX	77	LYS	Peptide
23	D1	30	VAL	Peptide
24	D2	55	ARG	Peptide
27	D5	51	TYR	Peptide
33	DD	237	GLU	Peptide
33	DD	244	ARG	Peptide
33	DD	47	GLY	Peptide
34	DE	131	ALA	Peptide
34	DE	76	ARG	Peptide
37	DH	156	ALA	Peptide
41	DP	37	GLY	Peptide
41	DP	51	PHE	Peptide
41	DP	57	THR	Peptide
41	DP	9	ASN	Peptide
42	DQ	10	ARG	Peptide
43	DR	5	LYS	Peptide
43	DR	7	GLY	Peptide
44	DS	88	ASP	Peptide
45	DT	29	ARG	Peptide
45	DT	79	HIS	Peptide
47	DV	18	LEU	Peptide
47	DV	81	TYR	Peptide
47	DV	87	HIS	Peptide
49	DX	38	GLU	Peptide
49	DX	64	LYS	Peptide
49	DX	76	ARG	Peptide
49	DX	77	LYS	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32329	0	16318	1593	0
1	CA	32329	0	16318	1560	0
2	AB	1901	0	1951	222	0
2	CB	1901	0	1951	219	0
3	AC	1613	0	1677	124	0
3	CC	1613	0	1677	126	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	AD	1703	0	1765	206	0
4	CD	1703	0	1764	206	0
5	AE	1147	0	1207	106	0
5	CE	1147	0	1207	109	0
6	AF	843	0	857	101	0
6	CF	843	0	857	101	0
7	AG	1257	0	1296	79	0
7	CG	1257	0	1296	77	0
8	AH	1116	0	1177	105	0
8	CH	1116	0	1177	105	0
9	AI	1011	0	1042	110	0
9	CI	1011	0	1042	112	0
10	AJ	795	0	840	105	0
10	CJ	795	0	840	105	0
11	AK	885	0	904	66	0
11	CK	885	0	904	71	0
12	AL	971	0	1057	104	0
12	CL	971	0	1057	106	0
13	AM	921	0	976	91	0
13	CM	921	0	976	94	0
14	AN	492	0	530	47	0
14	CN	492	0	529	46	0
15	AO	734	0	771	79	0
15	CO	734	0	771	84	0
16	AP	701	0	720	97	0
16	CP	701	0	720	102	0
17	AQ	824	0	891	70	0
17	CQ	824	0	891	59	0
18	AR	574	0	644	78	0
18	CR	574	0	644	78	0
19	AS	630	0	652	56	0
19	CS	630	0	652	56	0
20	AT	763	0	861	91	0
20	CT	763	0	861	81	0
21	AU	209	0	221	9	0
21	CU	209	0	221	9	0
22	B0	650	0	654	57	0
22	D0	650	0	654	59	0
23	B1	693	0	764	149	0
23	D1	693	0	764	144	0
24	B2	421	0	461	126	0
24	D2	421	0	461	127	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
25	B3	468	0	523	34	0
25	D3	468	0	523	43	0
26	B4	157	0	69	20	0
26	D4	157	0	69	22	0
27	B5	459	0	480	98	0
27	D5	459	0	480	93	0
28	B6	381	0	390	104	0
28	D6	381	0	390	102	0
29	B7	419	0	467	38	0
29	D7	419	0	467	41	0
30	B8	508	0	576	163	0
30	D8	508	0	576	163	0
31	BA	58698	0	29590	2619	0
31	DA	58698	0	29591	2787	0
32	BB	2551	0	1295	144	0
32	DB	2551	0	1295	157	0
33	BD	2105	0	2182	339	0
33	DD	2105	0	2182	350	0
34	BE	1564	0	1629	253	0
34	DE	1564	0	1629	260	0
35	BF	1624	0	1677	198	0
35	DF	1624	0	1677	201	0
36	BG	1474	0	1534	200	0
36	DG	1474	0	1534	193	0
37	BH	1223	0	1282	169	0
37	DH	1223	0	1282	164	0
38	BI	1132	0	1218	126	0
38	DI	1132	0	1218	128	0
39	BN	1105	0	1180	228	0
39	DN	1105	0	1180	239	0
40	BO	933	0	996	81	0
40	DO	933	0	996	89	0
41	BP	1114	0	1187	311	0
41	DP	1114	0	1187	298	0
42	BQ	1080	0	1127	181	0
42	DQ	1080	0	1127	193	0
43	BR	960	0	1021	138	0
43	DR	960	0	1021	132	0
44	BS	771	0	832	152	0
44	DS	771	0	832	145	0
45	BT	1100	0	1164	217	0
45	DT	1100	0	1164	202	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	BU	958	0	1015	150	0
46	DU	958	0	1015	158	0
47	BV	779	0	851	232	0
47	DV	779	0	851	233	0
48	BW	896	0	953	82	0
48	DW	896	0	953	91	0
49	BX	726	0	778	173	0
49	DX	726	0	778	168	0
50	BY	776	0	870	180	0
50	DY	776	0	870	181	0
51	BZ	1404	0	1432	158	0
51	DZ	1404	0	1432	158	0
52	AA	56	0	0	0	0
52	B1	1	0	0	0	0
52	B5	2	0	0	0	0
52	BA	368	0	0	0	0
52	BB	7	0	0	0	0
52	BD	1	0	0	0	0
52	BE	1	0	0	0	0
52	BF	1	0	0	0	0
52	BP	2	0	0	0	0
52	BQ	2	0	0	0	0
52	BR	2	0	0	0	0
52	BU	1	0	0	0	0
52	BX	1	0	0	0	0
52	CA	53	0	0	0	0
52	D1	1	0	0	0	0
52	D5	2	0	0	0	0
52	DA	332	0	0	0	0
52	DB	4	0	0	0	0
52	DD	1	0	0	0	0
52	DE	1	0	0	0	0
52	DF	1	0	0	0	0
52	DP	1	0	0	0	0
52	DQ	1	0	0	0	0
52	DR	1	0	0	0	0
52	DU	1	0	0	0	0
52	DX	1	0	0	0	0
53	AD	1	0	0	0	0
53	AN	1	0	0	0	0
53	CD	1	0	0	2	0
53	CN	1	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
54	BA	1	0	0	0	0
54	DA	1	0	0	0	0
55	BA	20	0	10	0	0
55	DA	20	0	10	0	0
All	All	277987	0	189127	19544	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 42.

All (19544) 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)
27:B5:46:CYS:SG	27:B5:47:PRO:HD2	1.78	1.22
31:BA:1899:G:H22	31:BA:1902:C:N4	1.41	1.18
30:B8:32:LEU:CB	30:B8:35:GLN:H	1.57	1.17
32:DB:20:C:H2'	32:DB:21:G:H5"	1.25	1.17
41:BP:141:ALA:HB3	25:D3:1:MET:SD	1.86	1.16
1:CA:1442:G:O2'	1:CA:1442(A):G:H5"	1.43	1.16
41:DP:16:ARG:HD3	41:DP:18:ARG:H	1.11	1.16
31:DA:1899:G:H22	31:DA:1902:C:N4	1.41	1.16
39:DN:42:TRP:HB3	46:DU:64:ARG:HH11	1.04	1.16
2:AB:185:ILE:HG22	2:AB:199:TYR:HB2	1.26	1.15
47:BV:19:LYS:HE2	47:BV:20:LEU:H	1.03	1.15
42:DQ:9:TYR:HD2	42:DQ:9:TYR:O	1.29	1.15
2:CB:185:ILE:HG22	2:CB:199:TYR:HB2	1.28	1.15
16:AP:28:ARG:HH11	16:AP:28:ARG:HG2	1.09	1.15
31:BA:1494:A:H4'	31:BA:1495:A:OP1	1.46	1.15
33:BD:65:ILE:HD11	33:BD:67:PHE:CE1	1.82	1.15
33:DD:27:THR:HG21	33:DD:83:GLU:HG2	1.24	1.14
50:BY:10:GLY:HA2	50:BY:27:VAL:HG13	1.16	1.14
31:BA:1884:A:H2'	31:BA:1885:A:H5"	1.23	1.14
46:DU:64:ARG:NH2	46:DU:64:ARG:HA	1.61	1.14
31:BA:1899:G:N2	31:BA:1902:C:H41	1.46	1.14
31:DA:1899:G:N2	31:DA:1902:C:H41	1.46	1.14
31:DA:2317:C:H2'	31:DA:2318:G:H5'	1.15	1.14
30:B8:32:LEU:HB3	30:B8:35:GLN:H	1.09	1.13
31:BA:2701:C:H3'	31:BA:2702:U:C5'	1.77	1.13
47:DV:21:ARG:HG2	47:DV:93:GLU:HG3	1.27	1.13
31:BA:2206:G:H21	31:BA:2207:G:H5'	1.06	1.13
46:BU:64:ARG:NH2	46:BU:64:ARG:HA	1.63	1.13
31:DA:1494:A:H4'	31:DA:1495:A:OP1	1.45	1.13

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2317:C:H2'	31:BA:2318:G:H5'	1.14	1.12
31:DA:1826:G:H4'	33:DD:242:ARG:HH21	1.12	1.12
39:DN:120:LEU:HD11	39:DN:122:VAL:HG23	1.31	1.12
50:DY:10:GLY:HA2	50:DY:27:VAL:HG13	1.27	1.12
42:BQ:9:TYR:O	42:BQ:9:TYR:HD2	1.33	1.12
4:AD:128:VAL:HG13	4:AD:129:ASN:HD22	1.00	1.12
31:DA:2206:G:H21	31:DA:2207:G:H5'	1.06	1.12
41:DP:59:LEU:HA	41:DP:61:ARG:NH1	1.65	1.12
31:BA:2787:C:H1'	34:BE:61:ARG:HB2	1.30	1.12
33:DD:32:SER:O	33:DD:33:LEU:HB2	1.48	1.12
31:BA:102:G:H5"	31:BA:102:G:H8	1.09	1.11
50:BY:95:LYS:HD3	50:BY:100:ALA:HB1	1.22	1.11
30:D8:32:LEU:CB	30:D8:35:GLN:H	1.62	1.11
31:DA:2787:C:H1'	34:DE:61:ARG:HB2	1.29	1.11
31:DA:154:G:H1	31:DA:172:C:N4	1.49	1.11
33:BD:32:SER:O	33:BD:33:LEU:HB2	1.45	1.10
35:DF:101:LEU:HD12	35:DF:102:PRO:HD2	1.33	1.10
46:DU:64:ARG:HA	46:DU:64:ARG:CZ	1.81	1.10
25:D3:8:LEU:HD13	25:D3:31:LEU:HD23	1.26	1.10
51:DZ:151:HIS:HB3	51:DZ:170:THR:HA	1.12	1.10
33:BD:35:LYS:HD3	33:BD:63:ARG:HB3	1.27	1.10
47:BV:1:MET:HE3	47:BV:44:LYS:HB2	1.29	1.10
50:DY:95:LYS:HD3	50:DY:100:ALA:HB1	1.23	1.10
33:BD:27:THR:HG21	33:BD:83:GLU:HG2	1.26	1.10
47:BV:21:ARG:HG2	47:BV:93:GLU:HG3	1.27	1.10
31:DA:2701:C:H3'	31:DA:2702:U:C5'	1.81	1.10
33:DD:65:ILE:HD11	33:DD:67:PHE:CE1	1.85	1.10
49:DX:25:LYS:HG3	49:DX:26:TYR:H	0.97	1.10
31:BA:154:G:H1	31:BA:172:C:N4	1.49	1.09
51:BZ:151:HIS:HB3	51:BZ:170:THR:HA	1.13	1.09
1:AA:1442:G:O2'	1:AA:1442(A):G:H5"	1.49	1.09
31:DA:1884:A:H2'	31:DA:1885:A:H5"	1.22	1.09
39:BN:42:TRP:HB3	46:BU:64:ARG:HH11	1.04	1.09
42:BQ:75:THR:HA	42:BQ:88:GLY:HA2	1.26	1.09
31:BA:2394:C:OP1	41:BP:63:PRO:HD2	1.52	1.09
4:CD:128:VAL:HG13	4:CD:129:ASN:HD22	0.94	1.09
32:BB:20:C:H2'	32:BB:21:G:H5"	1.25	1.09
42:DQ:75:THR:HA	42:DQ:88:GLY:HA2	1.26	1.09
45:DT:65:LYS:HE3	45:DT:66:VAL:H	1.10	1.09
33:BD:35:LYS:NZ	33:BD:104:TYR:HB2	1.67	1.08
49:BX:65:ARG:CZ	49:BX:66:LEU:H	1.65	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:84:GLU:HB3	2:CB:219:VAL:HG21	1.34	1.08
29:D7:8:ASN:HD22	29:D7:8:ASN:C	1.58	1.08
31:DA:102:G:H5"	31:DA:102:G:H8	1.10	1.08
31:DA:2759:G:H8	31:DA:2759:G:H5'	1.16	1.08
41:BP:16:ARG:HD3	41:BP:18:ARG:H	1.10	1.08
46:BU:64:ARG:HA	46:BU:64:ARG:CZ	1.82	1.08
49:DX:65:ARG:CZ	49:DX:66:LEU:H	1.66	1.08
1:CA:585:G:H4'	12:CL:8:ASN:HD21	1.10	1.08
47:DV:1:MET:HE3	47:DV:44:LYS:HB2	1.26	1.08
23:B1:89:GLU:CD	23:B1:89:GLU:H	1.61	1.08
39:DN:42:TRP:HB3	46:DU:64:ARG:NH1	1.68	1.08
33:BD:25:THR:HG21	33:BD:81:ALA:HB1	1.14	1.07
42:BQ:81:VAL:O	42:BQ:82:ARG:HG2	1.53	1.07
23:D1:89:GLU:CD	23:D1:89:GLU:H	1.62	1.07
44:DS:28:VAL:HB	44:DS:89:ARG:HB2	1.34	1.07
47:DV:19:LYS:HE2	47:DV:20:LEU:H	0.95	1.07
15:AO:17:ARG:HG3	15:AO:17:ARG:HH11	1.14	1.07
29:B7:8:ASN:C	29:B7:8:ASN:HD22	1.61	1.07
45:BT:65:LYS:HE3	45:BT:66:VAL:H	1.10	1.07
32:DB:44:G:H5"	32:DB:45:A:OP1	1.55	1.07
39:DN:18:ALA:HB1	39:DN:21:LYS:HB2	1.32	1.07
1:AA:585:G:H4'	12:AL:8:ASN:HD21	1.07	1.07
39:BN:18:ALA:HB1	39:BN:21:LYS:HB2	1.30	1.07
16:CP:28:ARG:HH11	16:CP:28:ARG:HG2	1.15	1.07
33:DD:35:LYS:NZ	33:DD:104:TYR:HB2	1.69	1.07
39:BN:3:THR:HG22	39:BN:4:TYR:H	1.17	1.07
25:B3:8:LEU:HD13	25:B3:31:LEU:HD23	1.31	1.06
31:BA:1210:A:C5'	31:BA:1210:A:H8	1.68	1.06
35:BF:53:THR:HG22	35:BF:55:GLY:H	1.15	1.06
49:BX:25:LYS:HG3	49:BX:26:TYR:H	1.00	1.06
33:BD:159:ALA:H	33:BD:161:THR:HG22	1.15	1.06
30:D8:59:LYS:HB2	30:D8:59:LYS:NZ	1.67	1.06
47:DV:19:LYS:HE2	47:DV:20:LEU:N	1.71	1.06
39:BN:42:TRP:HB3	46:BU:64:ARG:NH1	1.70	1.06
15:CO:17:ARG:HH11	15:CO:17:ARG:HG3	1.11	1.06
31:BA:2317:C:C2'	31:BA:2318:G:H5'	1.86	1.06
1:CA:673:G:H2'	1:CA:674:G:C8	1.91	1.06
1:CA:1256:A:H61	1:CA:1278:U:H1'	1.18	1.06
1:AA:673:G:H2'	1:AA:674:G:C8	1.89	1.06
31:DA:1210:A:H8	31:DA:1210:A:C5'	1.69	1.06
1:AA:1103:C:H5"	2:AB:98:LEU:HD13	1.38	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:59:LYS:HB2	30:B8:59:LYS:NZ	1.66	1.05
2:AB:84:GLU:HB3	2:AB:219:VAL:HG21	1.38	1.05
45:DT:54:ARG:HA	45:DT:59:THR:HB	1.37	1.05
47:DV:19:LYS:CE	47:DV:20:LEU:H	1.68	1.05
44:BS:28:VAL:HB	44:BS:89:ARG:HB2	1.33	1.05
31:DA:2758:A:H2'	31:DA:2759:G:H5"	1.36	1.05
45:BT:54:ARG:HA	45:BT:59:THR:HB	1.34	1.05
44:DS:34:HIS:CE1	44:DS:54:LEU:HB3	1.92	1.05
28:B6:9:LEU:HD22	28:B6:10:LEU:N	1.71	1.04
31:BA:875:G:H4'	51:BZ:170:THR:HG21	1.39	1.04
35:DF:53:THR:HG22	35:DF:55:GLY:H	1.15	1.04
31:BA:1652:A:O2'	31:BA:1653:G:H5'	1.55	1.04
32:BB:20:C:C2'	32:BB:21:G:H5"	1.86	1.04
32:BB:74:U:H2'	32:BB:75:G:H5"	1.37	1.04
33:DD:186:HIS:CD2	33:DD:188:GLU:H	1.75	1.04
1:AA:1256:A:H61	1:AA:1278:U:H1'	1.17	1.04
31:BA:2610:C:H4'	31:BA:2611:U:OP2	1.57	1.04
30:D8:32:LEU:HB3	30:D8:35:GLN:H	1.19	1.04
31:BA:1826:G:H4'	33:BD:242:ARG:HH21	1.22	1.04
39:BN:120:LEU:HD11	39:BN:122:VAL:HG23	1.31	1.04
41:BP:59:LEU:HA	41:BP:61:ARG:NH1	1.70	1.04
31:DA:1779:U:H5	31:DA:1784:A:N7	1.55	1.04
32:DB:20:C:C2'	32:DB:21:G:H5"	1.86	1.04
31:BA:2759:G:H5'	31:BA:2759:G:H8	1.19	1.04
33:BD:35:LYS:HD3	33:BD:63:ARG:CB	1.88	1.04
33:BD:35:LYS:HD2	33:BD:104:TYR:CD1	1.92	1.04
33:BD:186:HIS:CD2	33:BD:188:GLU:H	1.74	1.03
47:BV:85:LYS:O	47:BV:87:HIS:N	1.89	1.03
27:D5:46:CYS:SG	27:D5:47:PRO:HD2	1.96	1.03
31:DA:2206:G:N2	31:DA:2207:G:H5'	1.73	1.03
33:DD:25:THR:HG21	33:DD:81:ALA:HB1	1.08	1.03
41:BP:23:PRO:HB2	41:BP:33:ARG:HG3	1.39	1.03
41:BP:71:VAL:HG13	41:BP:72:PRO:HD3	1.39	1.03
33:BD:44:ASN:HB3	33:BD:49:ILE:HA	1.39	1.03
31:DA:2317:C:C2'	31:DA:2318:G:H5'	1.88	1.03
32:DB:74:U:H2'	32:DB:75:G:H5"	1.36	1.03
34:DE:38:THR:HG22	34:DE:40:GLU:H	1.23	1.03
2:AB:111:ARG:HH11	2:AB:111:ARG:HG2	1.17	1.03
46:BU:92:ARG:HD2	47:BV:11:GLN:HG2	1.39	1.03
47:BV:22:VAL:O	47:BV:23:GLU:HB2	1.58	1.03
39:DN:3:THR:HG22	39:DN:4:TYR:H	1.22	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:86:ILE:HG22	8:AH:87:SER:H	1.19	1.02
37:BH:137:ASP:O	37:BH:138:LYS:HB2	1.59	1.02
34:DE:132:HIS:CD2	34:DE:135:HIS:CE1	2.48	1.02
31:BA:2206:G:N2	31:BA:2207:G:H5'	1.72	1.02
31:DA:996:A:H4'	46:DU:92:ARG:NE	1.75	1.02
31:DA:2415:G:H4'	41:DP:67:MET:H	1.22	1.02
37:DH:70:THR:HG22	37:DH:74:ASN:HD21	1.25	1.02
31:BA:1884:A:C2'	31:BA:1885:A:H5"	1.89	1.02
47:BV:82:ARG:HH11	47:BV:82:ARG:CG	1.72	1.02
15:CO:82:ILE:HG12	15:CO:87:ILE:HB	1.42	1.02
31:DA:1884:A:C2'	31:DA:1885:A:H5"	1.89	1.02
41:DP:71:VAL:HG13	41:DP:72:PRO:HD3	1.41	1.02
31:BA:2758:A:H2'	31:BA:2759:G:H5"	1.40	1.02
31:DA:1653:G:H3'	43:DR:4:LEU:HD12	1.42	1.02
47:DV:75:PHE:CE1	47:DV:89:GLN:HB3	1.94	1.02
34:BE:38:THR:HG22	34:BE:40:GLU:H	1.23	1.01
41:BP:143:GLY:C	41:BP:145:PRO:HD3	1.85	1.01
33:DD:35:LYS:HD3	33:DD:63:ARG:HB3	1.37	1.01
41:DP:23:PRO:HB2	41:DP:33:ARG:HG3	1.39	1.01
34:BE:36:ARG:HH21	34:BE:88:GLY:HA2	1.25	1.01
35:BF:101:LEU:HD12	35:BF:102:PRO:HD2	1.39	1.01
31:DA:2610:C:H4'	31:DA:2611:U:OP2	1.61	1.01
30:B8:25:MET:HG3	41:BP:64:LYS:HB3	1.42	1.01
47:BV:75:PHE:CE1	47:BV:89:GLN:HB3	1.94	1.01
31:DA:1652:A:O2'	31:DA:1653:G:H5'	1.61	1.01
44:BS:34:HIS:HB3	44:BS:53:SER:HB3	1.43	1.01
50:BY:10:GLY:HA2	50:BY:27:VAL:CG1	1.91	1.01
16:AP:4:ILE:HG13	16:AP:21:VAL:HG12	1.41	1.01
34:BE:93:VAL:H	34:BE:95:ILE:HD13	1.25	1.01
1:CA:922:G:H4'	5:CE:20:GLN:HA	1.41	1.01
33:DD:44:ASN:HB3	33:DD:49:ILE:HA	1.39	1.01
37:DH:44:VAL:HG12	37:DH:45:VAL:H	1.25	1.01
44:DS:29:PHE:N	44:DS:89:ARG:HD2	1.76	1.01
15:AO:82:ILE:HG12	15:AO:87:ILE:HB	1.41	1.00
31:BA:348:G:H2'	31:BA:349:G:H5"	1.42	1.00
31:BA:1779:U:H5	31:BA:1784:A:N7	1.57	1.00
35:BF:46:ARG:HH11	35:BF:46:ARG:HG2	1.23	1.00
41:BP:30:THR:HG22	41:BP:31:ALA:H	1.22	1.00
1:CA:1442(A):G:H3'	1:CA:1442(B):A:H5"	1.43	1.00
47:DV:22:VAL:O	47:DV:23:GLU:HB2	1.60	1.00
47:BV:19:LYS:CE	47:BV:20:LEU:H	1.74	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BV:79:VAL:O	47:BV:80:GLN:HB3	1.55	1.00
31:DA:875:G:H4'	51:DZ:170:THR:HG21	1.40	1.00
37:DH:137:ASP:O	37:DH:138:LYS:HB2	1.61	1.00
28:D6:9:LEU:HD22	28:D6:10:LEU:N	1.75	1.00
31:DA:1210:A:H8	31:DA:1210:A:H5"	1.23	1.00
44:BS:34:HIS:CE1	44:BS:54:LEU:HB3	1.96	1.00
23:B1:19:GLN:NE2	31:BA:379:G:H21	1.59	1.00
34:BE:132:HIS:CD2	34:BE:135:HIS:CE1	2.50	1.00
49:BX:24:GLY:HA3	49:BX:80:ILE:HG13	1.43	1.00
31:BA:996:A:H4'	46:BU:92:ARG:NE	1.77	0.99
42:BQ:81:VAL:C	42:BQ:82:ARG:HG2	1.86	0.99
31:DA:1019:U:H3	31:DA:1142(A):A:H62	1.00	0.99
33:DD:35:LYS:HD2	33:DD:104:TYR:CD1	1.97	0.99
35:DF:18:ARG:HG2	35:DF:19:GLU:H	1.24	0.99
8:CH:86:ILE:HG22	8:CH:87:SER:H	1.25	0.99
46:DU:92:ARG:HD2	47:DV:11:GLN:HG2	1.44	0.99
31:BA:2701:C:C3'	31:BA:2702:U:H5"	1.92	0.99
30:D8:16:ILE:HD11	30:D8:57:ARG:HG2	1.42	0.99
42:DQ:81:VAL:O	42:DQ:82:ARG:HG2	1.60	0.99
50:DY:75:ILE:HD12	50:DY:76:CYS:H	1.25	0.99
16:CP:4:ILE:HG13	16:CP:21:VAL:HG12	1.44	0.99
31:DA:2701:C:H3'	31:DA:2702:U:H5"	1.00	0.99
41:DP:143:GLY:C	41:DP:145:PRO:HD3	1.87	0.99
1:AA:1442(A):G:H3'	1:AA:1442(B):A:H5"	1.44	0.99
32:BB:44:G:H5"	32:BB:45:A:OP1	1.62	0.99
2:CB:111:ARG:HH11	2:CB:111:ARG:HG2	1.22	0.99
31:DA:348:G:H2'	31:DA:349:G:H5"	1.41	0.99
31:BA:2834:G:H5'	31:BA:2835:A:OP2	1.63	0.99
34:DE:36:ARG:HH21	34:DE:88:GLY:HA2	1.23	0.99
31:BA:1019:U:H3	31:BA:1142(A):A:H62	1.04	0.99
50:BY:75:ILE:HD12	50:BY:76:CYS:H	1.25	0.99
16:CP:72:ARG:HH21	16:CP:73:LEU:HD21	1.24	0.99
31:DA:2469:A:H2	31:DA:2481:G:H21	1.02	0.99
49:BX:25:LYS:CG	49:BX:26:TYR:H	1.74	0.99
31:DA:1188:U:C2'	31:DA:1189:A:H5'	1.93	0.99
31:BA:1210:A:H8	31:BA:1210:A:H5"	1.23	0.99
49:DX:25:LYS:HG3	49:DX:26:TYR:N	1.77	0.98
34:DE:93:VAL:H	34:DE:95:ILE:HD13	1.27	0.98
32:BB:7:G:H2'	32:BB:8:U:H5"	1.43	0.98
28:D6:9:LEU:HD22	28:D6:10:LEU:H	1.28	0.98
31:DA:2394:C:OP1	41:DP:63:PRO:HD2	1.61	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DN:58:ASP:O	39:DN:60:ILE:HG12	1.62	0.98
29:B7:8:ASN:ND2	29:B7:11:LYS:H	1.59	0.98
31:DA:1879:C:H2'	31:DA:1880:C:H5"	1.46	0.98
31:BA:811:U:O2	31:BA:1250:G:H3'	1.64	0.98
31:DA:811:U:O2	31:DA:1250:G:H3'	1.63	0.98
41:DP:30:THR:HG22	41:DP:31:ALA:H	1.24	0.98
47:DV:69:LYS:HG3	47:DV:70:ILE:H	1.29	0.98
47:DV:79:VAL:O	47:DV:80:GLN:HB3	1.61	0.98
30:D8:32:LEU:C	30:D8:34:TRP:H	1.70	0.98
31:DA:102:G:H5"	31:DA:102:G:C8	1.98	0.98
27:B5:46:CYS:SG	27:B5:47:PRO:CD	2.51	0.98
31:DA:2759:G:H5'	31:DA:2759:G:C8	1.99	0.98
49:DX:24:GLY:HA3	49:DX:80:ILE:HG13	1.45	0.98
31:BA:2801:A:H4'	31:BA:2801(A):A:H5'	1.44	0.98
35:BF:18:ARG:HG2	35:BF:19:GLU:H	1.24	0.98
11:CK:127:LYS:HE2	11:CK:127:LYS:HA	1.45	0.98
42:DQ:37:LEU:HB2	42:DQ:128:LYS:O	1.64	0.98
47:DV:82:ARG:CG	47:DV:82:ARG:HH11	1.77	0.98
31:BA:2658:C:H5'	31:BA:2659:G:OP2	1.64	0.97
41:BP:140:ALA:HB1	25:D3:38:GLU:HG2	1.46	0.97
42:BQ:22:LYS:HE2	42:BQ:22:LYS:HA	1.43	0.97
1:CA:509:A:H2'	1:CA:510:A:C8	1.99	0.97
31:DA:2334:G:H21	44:DS:18:ILE:HD11	1.26	0.97
30:B8:16:ILE:HD11	30:B8:57:ARG:HG2	1.42	0.97
47:BV:19:LYS:HG3	47:BV:20:LEU:N	1.76	0.97
34:DE:27:LEU:HD22	45:DT:1:MET:HE2	1.45	0.97
36:DG:76:SER:HB2	36:DG:83:ARG:HB3	1.45	0.97
31:BA:102:G:H5"	31:BA:102:G:C8	1.98	0.97
31:BA:1658:C:OP1	34:BE:132:HIS:CE1	2.17	0.97
31:BA:2469:A:H2	31:BA:2481:G:H21	1.10	0.97
47:BV:19:LYS:HB3	47:BV:96:ILE:O	1.65	0.97
44:DS:34:HIS:HB3	44:DS:53:SER:HB3	1.46	0.97
35:BF:53:THR:CG2	35:BF:55:GLY:H	1.76	0.97
13:CM:3:ARG:HH22	36:DG:139:LEU:HD13	1.26	0.97
28:D6:10:LEU:HD12	30:D8:35:GLN:HE22	1.27	0.97
35:DF:53:THR:CG2	35:DF:55:GLY:H	1.77	0.97
47:BV:19:LYS:HE2	47:BV:20:LEU:N	1.79	0.97
30:D8:32:LEU:O	30:D8:33:ASN:HB3	1.64	0.97
31:DA:1497:U:H5'	31:DA:1498:C:H5	1.26	0.97
41:DP:105:LEU:O	41:DP:106:LEU:HB2	1.61	0.97
28:B6:9:LEU:HD22	28:B6:10:LEU:H	1.22	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1464:C:HO2'	31:BA:1528:A:H8	1.00	0.97
41:BP:71:VAL:HG13	41:BP:72:PRO:CD	1.95	0.97
42:BQ:8:LYS:HG3	42:BQ:9:TYR:H	1.27	0.97
49:BX:25:LYS:HG3	49:BX:26:TYR:N	1.78	0.97
27:D5:16:ARG:HH11	27:D5:16:ARG:HG2	1.28	0.97
31:DA:330:A:H2	31:DA:1210:A:H2'	1.26	0.97
27:B5:57:VAL:HB	27:B5:58:LEU:HD12	1.44	0.96
35:DF:46:ARG:HH11	35:DF:46:ARG:HG2	1.29	0.96
47:DV:18:LEU:HD22	47:DV:19:LYS:HA	1.46	0.96
31:BA:1529:G:H21	31:BA:1530:C:H5"	1.30	0.96
31:BA:1902:C:O2'	33:BD:244:ARG:HB2	1.64	0.96
4:CD:128:VAL:HG13	4:CD:129:ASN:ND2	1.79	0.96
23:D1:19:GLN:NE2	31:DA:379:G:H21	1.61	0.96
32:DB:94:C:H2'	32:DB:95:C:H6	1.30	0.96
30:B8:32:LEU:O	30:B8:33:ASN:HB3	1.65	0.96
31:BA:2565:A:H5"	31:BA:2566:A:OP2	1.64	0.96
41:BP:71:VAL:CG1	41:BP:72:PRO:HD3	1.95	0.96
12:CL:47:LYS:HB3	12:CL:48:PRO:HD3	1.45	0.96
31:DA:259:G:H21	31:DA:621:A:H8	1.04	0.96
28:B6:10:LEU:HD12	30:B8:35:GLN:HE22	1.27	0.96
31:BA:676:A:H8	31:BA:2069:G:H21	1.11	0.96
33:DD:35:LYS:HD3	33:DD:63:ARG:CB	1.93	0.96
39:DN:65:LYS:HA	39:DN:65:LYS:HE2	1.46	0.96
41:BP:105:LEU:O	41:BP:106:LEU:HB2	1.62	0.96
31:BA:330:A:H2	31:BA:1210:A:H2'	1.28	0.96
36:BG:124:SER:HB2	36:BG:131:TYR:CE1	2.01	0.96
39:BN:65:LYS:HE2	39:BN:65:LYS:HA	1.46	0.96
24:D2:25:VAL:HG13	24:D2:26:ARG:HD3	1.46	0.96
30:B8:32:LEU:C	30:B8:34:TRP:H	1.66	0.96
31:DA:870:A:H5"	42:DQ:7:MET:HB2	1.44	0.96
47:DV:85:LYS:O	47:DV:87:HIS:N	1.97	0.96
49:DX:25:LYS:CG	49:DX:26:TYR:H	1.76	0.96
31:BA:2334:G:H21	44:BS:18:ILE:HD11	1.31	0.96
45:BT:29:ARG:HB3	45:BT:85:LYS:HA	1.46	0.96
45:DT:29:ARG:HB3	45:DT:85:LYS:HA	1.48	0.96
31:BA:1887:C:H2'	31:BA:1888:G:H5'	1.46	0.96
31:DA:2801:A:H4'	31:DA:2801(A):A:H5'	1.43	0.96
41:DP:59:LEU:HA	41:DP:61:ARG:HH11	1.21	0.96
42:BQ:81:VAL:HG12	42:BQ:82:ARG:HG3	1.45	0.95
27:D5:57:VAL:HB	27:D5:58:LEU:HD12	1.46	0.95
29:D7:8:ASN:ND2	29:D7:11:LYS:H	1.62	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:25:MET:HB2	41:DP:62:LEU:CD2	1.96	0.95
16:AP:72:ARG:HH21	16:AP:73:LEU:HD21	1.28	0.95
39:BN:58:ASP:O	39:BN:60:ILE:HG12	1.63	0.95
1:CA:1502:A:H2	1:CA:1505:G:H1	1.06	0.95
36:DG:85:GLY:O	36:DG:87:PRO:HD2	1.65	0.95
31:BA:911:A:H2'	42:BQ:9:TYR:OH	1.65	0.95
38:DI:9:LEU:H	38:DI:13:GLY:HA2	1.32	0.95
31:BA:1651:G:H2'	31:BA:1652:A:H5"	1.48	0.95
24:B2:25:VAL:HG13	24:B2:26:ARG:HD3	1.48	0.95
39:BN:45:ASN:HD22	39:BN:45:ASN:H	1.12	0.95
44:BS:29:PHE:N	44:BS:89:ARG:HD2	1.80	0.95
50:BY:17:SER:HA	50:BY:71:LYS:HD2	1.47	0.95
24:B2:37:PHE:HE2	24:B2:40:SER:HA	1.31	0.95
30:B8:35:GLN:NE2	30:B8:36:LYS:HZ2	1.65	0.95
31:BA:2656:U:H3	31:BA:2665:A:H2	1.03	0.95
33:BD:35:LYS:HD2	33:BD:104:TYR:CE1	2.02	0.95
31:DA:911:A:H2'	42:DQ:9:TYR:OH	1.64	0.95
1:AA:509:A:H2'	1:AA:510:A:C8	2.02	0.95
31:BA:171:G:H2'	31:BA:172:C:O4'	1.67	0.95
43:DR:10:LEU:HB3	43:DR:17:ARG:NE	1.82	0.95
31:BA:995:C:O2	39:BN:4:TYR:OH	1.84	0.94
33:BD:35:LYS:HZ1	33:BD:104:TYR:HB2	1.26	0.94
37:BH:70:THR:HG22	37:BH:74:ASN:HD21	1.29	0.94
41:BP:62:LEU:N	41:BP:62:LEU:HD22	1.80	0.94
47:BV:71:LEU:HD22	47:BV:72:VAL:HG23	1.48	0.94
31:DA:997:G:OP1	46:DU:93:LYS:HD3	1.66	0.94
42:DQ:81:VAL:C	42:DQ:82:ARG:HG2	1.88	0.94
30:B8:25:MET:HB2	41:BP:62:LEU:CD2	1.96	0.94
31:BA:1497:U:H5'	31:BA:1498:C:H5	1.29	0.94
38:BI:133:HIS:HB2	38:BI:134:PRO:HD2	1.49	0.94
31:DA:2658:C:H5'	31:DA:2659:G:OP2	1.66	0.94
41:DP:71:VAL:CG1	41:DP:72:PRO:HD3	1.96	0.94
4:AD:15:GLU:HG3	4:AD:63:LYS:HE2	1.47	0.94
37:BH:44:VAL:HG12	37:BH:45:VAL:H	1.31	0.94
47:BV:19:LYS:HG3	47:BV:20:LEU:O	1.65	0.94
30:D8:4:MET:SD	30:D8:61:LEU:HD12	2.07	0.94
31:DA:1887:C:H2'	31:DA:1888:G:H5'	1.49	0.94
39:DN:18:ALA:HB3	39:DN:26:LEU:HD22	1.49	0.94
12:AL:47:LYS:HB3	12:AL:48:PRO:HD3	1.45	0.94
48:BW:92:ARG:HH11	48:BW:92:ARG:HG2	1.32	0.94
4:CD:15:GLU:HG3	4:CD:63:LYS:HE2	1.47	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:D1:85:LEU:HB3	23:D1:87:PRO:HD3	1.46	0.94
31:DA:2415:G:H4'	41:DP:67:MET:N	1.82	0.94
49:DX:65:ARG:NE	49:DX:66:LEU:H	1.65	0.94
1:AA:1502:A:H2	1:AA:1505:G:H1	1.04	0.94
31:BA:870:A:H5"	42:BQ:7:MET:HB2	1.47	0.94
44:BS:14:VAL:HG12	44:BS:15:ARG:H	1.32	0.94
49:BX:55:ASN:HB2	49:BX:78:LYS:HD2	1.49	0.94
50:BY:8:LYS:HZ1	50:BY:74:PRO:HD3	1.31	0.94
36:BG:76:SER:HB2	36:BG:83:ARG:HB3	1.45	0.94
31:DA:1278:A:OP1	43:DR:36:THR:HG22	1.68	0.94
36:DG:82:LEU:HB3	36:DG:87:PRO:HG3	1.49	0.94
43:BR:10:LEU:HB3	43:BR:17:ARG:NE	1.83	0.94
1:CA:954:G:H21	1:CA:1227:A:H62	1.14	0.94
31:DA:1658:C:OP1	34:DE:132:HIS:CE1	2.21	0.94
42:DQ:75:THR:CA	42:DQ:88:GLY:HA2	1.97	0.94
47:DV:19:LYS:HG3	47:DV:20:LEU:N	1.82	0.94
51:DZ:101:PRO:O	51:DZ:102:LEU:HD23	1.66	0.94
27:B5:16:ARG:HH11	27:B5:16:ARG:HG2	1.31	0.94
30:B8:25:MET:HB2	41:BP:62:LEU:HD23	1.50	0.94
31:BA:2701:C:H3'	31:BA:2702:U:H5"	0.96	0.94
13:CM:34:LEU:HD13	13:CM:41:PRO:HG3	1.50	0.94
31:DA:1902:C:O2'	33:DD:244:ARG:HB2	1.68	0.94
38:DI:133:HIS:HB2	38:DI:134:PRO:HD2	1.48	0.94
31:BA:102:G:O2'	31:BA:103:A:OP2	1.86	0.94
31:BA:1879:C:H2'	31:BA:1880:C:H5"	1.47	0.94
24:D2:37:PHE:HE2	24:D2:40:SER:HA	1.32	0.94
24:D2:49:LYS:HD2	24:D2:53:LEU:HD22	1.49	0.94
47:DV:19:LYS:HG3	47:DV:20:LEU:O	1.66	0.94
23:B1:85:LEU:HB3	23:B1:87:PRO:HD3	1.48	0.93
31:BA:2681:C:H5	31:BA:2725:A:H62	1.06	0.93
31:DA:1403:C:H5"	31:DA:1471:A:H1'	1.49	0.93
50:DY:10:GLY:HA2	50:DY:27:VAL:CG1	1.98	0.93
31:BA:997:G:OP1	46:BU:93:LYS:HD3	1.68	0.93
31:BA:1653:G:H3'	43:BR:4:LEU:HD12	1.51	0.93
31:BA:2415:G:H4'	41:BP:67:MET:H	1.30	0.93
31:DA:171:G:H2'	31:DA:172:C:O4'	1.67	0.93
31:DA:1678:G:N2	31:DA:1989:G:H22	1.66	0.93
35:DF:20:LEU:HD22	35:DF:203:GLN:HE22	1.34	0.93
1:AA:250:A:H4'	1:AA:251:G:O5'	1.69	0.93
11:AK:127:LYS:HE2	11:AK:127:LYS:HA	1.46	0.93
31:DA:285:C:H2'	31:DA:286:C:H5"	1.49	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DB:7:G:H2'	32:DB:8:U:H5"	1.49	0.93
32:DB:74:U:C2'	32:DB:75:G:H5"	1.98	0.93
49:DX:82:GLN:O	49:DX:85:PRO:HD2	1.69	0.93
31:DA:995:C:O2	39:DN:4:TYR:OH	1.86	0.93
50:DY:28:LYS:O	50:DY:38:ILE:HB	1.68	0.93
31:BA:285:C:H2'	31:BA:286:C:H5"	1.49	0.93
6:CF:18:GLN:HA	6:CF:21:LEU:HD23	1.47	0.93
30:D8:25:MET:HB2	41:DP:62:LEU:HD23	1.49	0.93
31:BA:571:A:H5'	31:BA:2030:A:H62	1.34	0.93
1:CA:1412:C:H2'	1:CA:1413:A:H8	1.31	0.93
8:CH:1:MET:HE2	8:CH:1:MET:H3	1.32	0.93
30:D8:25:MET:HG3	41:DP:64:LYS:HB3	1.50	0.93
31:DA:1022:G:H22	31:DA:1142(A):A:H2	0.94	0.93
31:DA:2359:C:H2'	31:DA:2360:A:H5'	1.51	0.93
24:B2:49:LYS:HD2	24:B2:53:LEU:HD22	1.51	0.93
31:BA:259:G:H21	31:BA:621:A:H8	1.05	0.93
43:BR:71:GLN:HE21	43:BR:71:GLN:HA	1.34	0.93
31:DA:1188:U:H2'	31:DA:1189:A:H5'	1.50	0.93
38:BI:9:LEU:H	38:BI:13:GLY:HA2	1.34	0.93
50:BY:46:LYS:O	50:BY:47:LYS:HE3	1.69	0.93
6:AF:18:GLN:HA	6:AF:21:LEU:HD23	1.49	0.93
31:BA:1678:G:N2	31:BA:1989:G:H22	1.65	0.93
31:BA:2632:A:H1'	34:BE:61:ARG:NH1	1.83	0.93
39:BN:18:ALA:HB3	39:BN:26:LEU:HD22	1.51	0.93
49:BX:82:GLN:O	49:BX:85:PRO:HD2	1.69	0.93
41:DP:71:VAL:HG13	41:DP:72:PRO:CD	1.98	0.93
42:DQ:9:TYR:O	42:DQ:9:TYR:CD2	2.21	0.93
36:BG:82:LEU:HB3	36:BG:87:PRO:HG3	1.48	0.92
4:CD:158:ILE:HG23	4:CD:162:LEU:HD12	1.50	0.92
31:DA:2565:A:H5"	31:DA:2566:A:OP2	1.68	0.92
36:DG:124:SER:HB2	36:DG:131:TYR:CE1	2.04	0.92
16:AP:20:VAL:HG21	16:AP:32:TYR:CG	2.02	0.92
31:DA:571:A:H5'	31:DA:2030:A:H62	1.33	0.92
47:DV:75:PHE:HE1	47:DV:89:GLN:HB3	1.30	0.92
1:AA:954:G:H21	1:AA:1227:A:H62	1.14	0.92
31:DA:2632:A:H1'	34:DE:61:ARG:NH1	1.85	0.92
37:DH:85:LYS:HE2	37:DH:145:ALA:HB2	1.51	0.92
35:DF:178:PRO:HB2	35:DF:201:VAL:HG11	1.52	0.92
47:BV:75:PHE:HE1	47:BV:89:GLN:HB3	1.32	0.92
31:DA:1529:G:H21	31:DA:1530:C:H5"	1.35	0.92
32:DB:75:G:H5'	32:DB:75:G:H8	1.33	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BP:41:ARG:HH21	41:BP:41:ARG:HA	1.30	0.92
16:CP:20:VAL:HG21	16:CP:32:TYR:CG	2.04	0.92
40:DO:107:ARG:HH12	45:DT:35:LYS:HB2	1.31	0.92
42:DQ:8:LYS:HG3	42:DQ:9:TYR:H	1.35	0.92
42:DQ:22:LYS:HE2	42:DQ:22:LYS:HA	1.48	0.92
13:AM:34:LEU:HD13	13:AM:41:PRO:HG3	1.49	0.92
37:BH:85:LYS:HE2	37:BH:145:ALA:HB2	1.51	0.92
42:BQ:75:THR:CA	42:BQ:88:GLY:HA2	1.98	0.92
31:DA:2834:G:H5'	31:DA:2835:A:OP2	1.69	0.92
37:DH:83:TYR:HB3	37:DH:135:GLY:H	1.35	0.92
31:BA:2415:G:H4'	41:BP:67:MET:N	1.85	0.92
31:BA:2652:C:C2'	31:BA:2653:U:H5'	2.00	0.92
31:DA:661:C:O3'	41:DP:18:ARG:HG2	1.69	0.92
41:DP:97:PRO:O	41:DP:98:GLU:HB3	1.70	0.92
31:BA:2359:C:H2'	31:BA:2360:A:H5'	1.49	0.92
34:BE:27:LEU:HD22	45:BT:1:MET:HE2	1.49	0.92
39:DN:45:ASN:H	39:DN:45:ASN:HD22	1.14	0.92
42:DQ:140:ALA:HB3	51:DZ:53:ILE:HG13	1.50	0.92
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.35	0.91
50:BY:75:ILE:HG12	50:BY:79:CYS:HA	1.52	0.91
50:BY:96:ILE:HG21	50:BY:99:CYS:HB3	1.52	0.91
42:DQ:81:VAL:HG12	42:DQ:82:ARG:HG3	1.52	0.91
37:BH:43:VAL:HG23	37:BH:43:VAL:O	1.68	0.91
46:BU:27:LEU:HD23	46:BU:27:LEU:N	1.85	0.91
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.06	0.91
31:DA:1484:G:H22	31:DA:1505:C:H5	1.16	0.91
31:DA:2656:U:H3	31:DA:2665:A:H2	0.99	0.91
31:DA:2681:C:H5	31:DA:2725:A:H62	0.98	0.91
31:BA:1494:A:C4'	31:BA:1495:A:OP1	2.19	0.91
31:DA:2652:C:C2'	31:DA:2653:U:H5'	2.00	0.91
48:DW:92:ARG:HH11	48:DW:92:ARG:HG2	1.34	0.91
31:BA:389:G:H22	41:BP:71:VAL:HG12	1.35	0.91
33:DD:147:LEU:HD12	33:DD:155:LEU:HD21	1.53	0.91
41:BP:59:LEU:HA	41:BP:61:ARG:HH11	1.27	0.91
34:DE:34:VAL:HG22	34:DE:48:GLN:HE21	1.32	0.91
41:BP:146:VAL:HG22	41:BP:147:LEU:H	1.35	0.91
1:CA:929:G:H1	1:CA:1388:C:H42	1.19	0.91
33:DD:35:LYS:HD2	33:DD:104:TYR:CE1	2.04	0.91
4:AD:128:VAL:HG13	4:AD:129:ASN:ND2	1.85	0.91
30:B8:32:LEU:HB3	30:B8:35:GLN:N	1.85	0.91
30:B8:4:MET:SD	30:B8:61:LEU:HD12	2.10	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:24:LEU:HB3	35:BF:25:PRO:HD2	1.53	0.91
37:BH:156:ALA:N	37:BH:158:HIS:H	1.68	0.91
39:BN:128:HIS:CD2	39:BN:131:GLN:HB2	2.05	0.91
31:DA:1281:G:H8	31:DA:1281:G:H5'	1.33	0.91
39:DN:128:HIS:CD2	39:DN:131:GLN:HB2	2.05	0.91
2:AB:187:LEU:HD23	2:AB:201:ILE:HG22	1.53	0.91
34:BE:197:ILE:HD11	34:BE:199:ARG:NH2	1.86	0.91
41:BP:62:LEU:HD22	41:BP:62:LEU:H	1.35	0.91
8:CH:88:LYS:HB3	8:CH:89:PRO:HD2	1.53	0.91
1:CA:975:A:H4'	1:CA:976:G:H5"	1.53	0.91
23:D1:47:GLN:HG2	31:DA:2230:G:H1'	1.53	0.91
31:DA:751:A:H5'	48:DW:90:ARG:HA	1.50	0.91
31:DA:1651:G:H2'	31:DA:1652:A:H5"	1.52	0.91
32:BB:74:U:C2'	32:BB:75:G:H5"	2.01	0.90
1:CA:1412:C:H2'	1:CA:1413:A:C8	2.06	0.90
33:DD:235:GLY:O	33:DD:237:GLU:HG2	1.72	0.90
30:B8:46:ARG:HH22	41:BP:65:ARG:NH2	1.68	0.90
35:BF:53:THR:HG22	35:BF:55:GLY:N	1.86	0.90
42:BQ:9:TYR:O	42:BQ:9:TYR:CD2	2.24	0.90
50:BY:76:CYS:SG	50:BY:77:PRO:HD2	2.10	0.90
10:CJ:32:ALA:HB2	10:CJ:76:ASN:HB3	1.54	0.90
23:D1:85:LEU:C	23:D1:87:PRO:HD3	1.96	0.90
39:DN:47:ALA:HB2	39:DN:112:LEU:HD11	1.52	0.90
24:B2:17:SER:O	24:B2:21:LEU:HD12	1.72	0.90
1:CA:102:G:H2'	1:CA:103:C:H6	1.36	0.90
31:DA:2463:C:H2'	31:DA:2464:C:H5'	1.54	0.90
50:DY:7:VAL:HB	50:DY:8:LYS:HZ2	1.36	0.90
42:BQ:140:ALA:HB3	51:BZ:53:ILE:HG13	1.49	0.90
31:DA:145:G:H2'	31:DA:146:G:H5"	1.52	0.90
39:DN:91:LEU:HA	39:DN:95:PRO:HB3	1.52	0.90
34:DE:197:ILE:HD11	34:DE:199:ARG:NH2	1.86	0.90
1:AA:929:G:H1	1:AA:1388:C:H42	1.20	0.90
31:BA:1022:G:H22	31:BA:1142(A):A:H2	0.95	0.90
47:BV:47:VAL:HG13	47:BV:48:GLY:H	1.37	0.90
8:AH:1:MET:HE2	8:AH:1:MET:H3	1.35	0.90
31:BA:2096:U:H3	31:BA:2193:G:H1	1.20	0.90
33:BD:186:HIS:HD2	33:BD:188:GLU:N	1.69	0.90
45:BT:91:ARG:HB2	45:BT:116:ALA:HA	1.54	0.90
30:D8:6:THR:HB	30:D8:63:PRO:HG3	1.54	0.90
33:DD:186:HIS:HD2	33:DD:188:GLU:N	1.70	0.90
47:DV:19:LYS:HB3	47:DV:96:ILE:O	1.71	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:102:ARG:HH11	12:AL:102:ARG:HG3	1.36	0.90
31:BA:2758:A:C2'	31:BA:2759:G:H5"	2.01	0.90
39:BN:47:ALA:HB2	39:BN:112:LEU:HD11	1.54	0.90
46:BU:92:ARG:HD2	47:BV:11:GLN:CG	2.01	0.90
35:BF:135:LYS:HB3	35:BF:138:GLU:HG3	1.51	0.90
49:BX:72:LYS:HG3	49:BX:74:PRO:HD3	1.53	0.90
15:CO:87:ILE:HG22	15:CO:88:ARG:H	1.35	0.90
33:DD:166:GLN:HA	33:DD:166:GLN:HE21	1.37	0.90
37:DH:70:THR:CG2	37:DH:74:ASN:HD21	1.84	0.90
48:DW:9:TYR:H	48:DW:102:HIS:HD2	1.18	0.90
50:DY:75:ILE:HG12	50:DY:79:CYS:HA	1.52	0.89
1:AA:975:A:H4'	1:AA:976:G:H5"	1.53	0.89
2:AB:172:ILE:H	2:AB:172:ILE:HD12	1.35	0.89
23:B1:85:LEU:C	23:B1:87:PRO:HD3	1.97	0.89
33:DD:186:HIS:HD2	33:DD:188:GLU:H	0.91	0.89
47:DV:71:LEU:HD22	47:DV:72:VAL:HG23	1.52	0.89
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.07	0.89
31:BA:661:C:O3'	41:BP:18:ARG:HG2	1.70	0.89
33:BD:35:LYS:HG2	33:BD:64:ILE:N	1.87	0.89
39:BN:39:ARG:HD3	39:BN:41:ASP:HB2	1.52	0.89
9:CI:96:LEU:HG	9:CI:102:LEU:HB2	1.53	0.89
44:DS:14:VAL:HG12	44:DS:15:ARG:H	1.34	0.89
31:BA:145:G:H2'	31:BA:146:G:H5"	1.53	0.89
31:BA:1188:U:C2'	31:BA:1189:A:H5'	2.03	0.89
31:BA:2463:C:H2'	31:BA:2464:C:H5'	1.53	0.89
31:DA:2068:U:H3	31:DA:2430:A:H2	1.19	0.89
1:AA:685:G:O2'	1:AA:686:U:H5'	1.71	0.89
12:AL:102:ARG:HH11	12:AL:102:ARG:CG	1.85	0.89
31:BA:1484:G:H22	31:BA:1505:C:H5	1.17	0.89
33:BD:131:LEU:HB2	33:BD:136:ILE:HD11	1.53	0.89
40:BO:107:ARG:HH12	45:BT:35:LYS:HB2	1.34	0.89
33:DD:131:LEU:HB2	33:DD:136:ILE:HD11	1.53	0.89
42:DQ:75:THR:HG21	42:DQ:85:LYS:HE2	1.54	0.89
1:AA:102:G:H2'	1:AA:103:C:H6	1.36	0.89
15:AO:39:LEU:CD1	15:AO:56:LEU:HB2	2.03	0.89
45:BT:83:ILE:HG13	45:BT:84:GLN:H	1.37	0.89
2:CB:172:ILE:HD12	2:CB:172:ILE:H	1.37	0.89
27:D5:40:LYS:HE2	27:D5:46:CYS:HB3	1.54	0.89
31:DA:2758:A:C2'	31:DA:2759:G:H5"	2.01	0.89
47:DV:82:ARG:HH11	47:DV:82:ARG:HG3	1.38	0.89
31:BA:2287:A:N6	31:BA:2344:U:H3	1.70	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1019:U:HO2'	31:BA:1021:A:H2	0.89	0.89
31:BA:2307:G:N2	31:BA:2308:G:H5'	1.88	0.89
33:BD:108:PRO:HB3	33:BD:143:HIS:CE1	2.08	0.89
36:BG:127:GLY:HA2	36:BG:166:ASP:HB3	1.53	0.89
20:CT:13:LEU:HD12	20:CT:13:LEU:H	1.36	0.89
31:DA:2701:C:C3'	31:DA:2702:U:H5"	1.96	0.89
4:AD:158:ILE:HG23	4:AD:162:LEU:HD12	1.54	0.88
23:B1:46:LEU:H	23:B1:46:LEU:HD12	1.35	0.88
36:BG:52:ILE:HG22	36:BG:54:GLU:HG3	1.53	0.88
33:DD:25:THR:CG2	33:DD:81:ALA:HB1	2.01	0.88
41:DP:38:GLN:HG3	41:DP:39:LYS:H	1.36	0.88
50:DY:17:SER:HA	50:DY:71:LYS:HD2	1.52	0.88
1:AA:673:G:H2'	1:AA:674:G:H8	1.36	0.88
15:AO:87:ILE:HG22	15:AO:88:ARG:H	1.37	0.88
31:BA:1281:G:H8	31:BA:1281:G:H5'	1.37	0.88
37:BH:20:ALA:HB1	37:BH:21:PRO:HD2	1.52	0.88
37:BH:70:THR:CG2	37:BH:74:ASN:HD21	1.85	0.88
37:BH:83:TYR:HB3	37:BH:135:GLY:H	1.33	0.88
4:CD:33:MET:HE2	4:CD:37:PRO:HA	1.53	0.88
50:DY:8:LYS:HZ1	50:DY:74:PRO:HD3	1.35	0.88
33:BD:159:ALA:H	33:BD:161:THR:CG2	1.86	0.88
31:DA:676:A:H8	31:DA:2069:G:H21	1.20	0.88
33:DD:158:ALA:H	33:DD:161:THR:HG21	1.37	0.88
31:BA:2759:G:H5'	31:BA:2759:G:C8	2.06	0.88
41:BP:47:ASP:HB3	41:BP:48:PRO:C	1.97	0.88
1:CA:685:G:O2'	1:CA:686:U:H5'	1.72	0.88
12:CL:102:ARG:CG	12:CL:102:ARG:HH11	1.87	0.88
20:AT:13:LEU:H	20:AT:13:LEU:HD12	1.36	0.88
1:AA:1097:C:H1'	1:AA:1170:A:H1'	1.53	0.88
50:BY:96:ILE:HG13	50:BY:99:CYS:O	1.73	0.88
30:D8:35:GLN:NE2	30:D8:36:LYS:HZ2	1.71	0.88
33:DD:35:LYS:HZ1	33:DD:104:TYR:HB2	1.39	0.88
36:DG:127:GLY:HA2	36:DG:166:ASP:HB3	1.54	0.88
41:DP:47:ASP:HB3	41:DP:48:PRO:C	1.97	0.88
31:BA:172:C:H3'	31:BA:173:G:H5"	1.55	0.88
31:BA:2305:A:H5"	36:BG:134:GLY:HA3	1.54	0.88
42:BQ:75:THR:HG21	42:BQ:85:LYS:HE2	1.55	0.88
44:BS:87:PHE:O	44:BS:88:ASP:HB2	1.73	0.88
31:DA:856:C:H4'	31:DA:857:C:OP1	1.73	0.88
35:DF:53:THR:HG22	35:DF:55:GLY:N	1.88	0.88
45:DT:83:ILE:HG13	45:DT:84:GLN:H	1.37	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:254:G:OP1	17:AQ:67:LYS:O	1.92	0.88
4:AD:33:MET:HE2	4:AD:37:PRO:HA	1.54	0.88
31:BA:1278:A:OP1	43:BR:36:THR:HG22	1.73	0.88
35:BF:164:ARG:HH11	35:BF:164:ARG:HG2	1.38	0.88
49:BX:65:ARG:NE	49:BX:66:LEU:H	1.70	0.88
6:CF:69:GLU:O	6:CF:72:VAL:HG12	1.74	0.88
31:DA:102:G:O2'	31:DA:103:A:OP2	1.90	0.88
31:DA:2463:C:C2'	31:DA:2464:C:H5'	2.04	0.88
9:AI:96:LEU:HG	9:AI:102:LEU:HB2	1.55	0.88
33:BD:166:GLN:HE21	33:BD:166:GLN:HA	1.37	0.88
44:BS:95:HIS:CG	44:BS:96:GLY:H	1.90	0.88
1:CA:240:C:H2'	1:CA:241:C:H6	1.39	0.88
31:DA:1790:C:H5"	31:DA:1791:A:OP1	1.74	0.88
43:DR:71:GLN:HA	43:DR:71:GLN:HE21	1.39	0.88
50:DY:38:ILE:HG22	50:DY:39:VAL:H	1.38	0.88
8:AH:10:LEU:HD13	8:AH:83:ILE:HD11	1.56	0.88
9:AI:19:LEU:HD22	9:AI:59:PHE:HB3	1.55	0.88
30:B8:6:THR:HB	30:B8:63:PRO:HG3	1.54	0.88
31:DA:1494:A:C4'	31:DA:1495:A:OP1	2.20	0.87
31:DA:2096:U:H3	31:DA:2193:G:H1	1.22	0.87
31:DA:2206:G:H21	31:DA:2207:G:C5'	1.87	0.87
31:BA:2036:C:H5'	31:BA:2036:C:H6	1.40	0.87
42:BQ:8:LYS:CG	42:BQ:9:TYR:H	1.86	0.87
1:CA:677:U:H3	1:CA:713:G:H22	1.23	0.87
23:D1:19:GLN:HE21	31:DA:379:G:H21	1.20	0.87
33:DD:25:THR:HG21	33:DD:81:ALA:CB	2.02	0.87
37:DH:41:MET:HB3	37:DH:43:VAL:HG13	1.56	0.87
37:DH:156:ALA:N	37:DH:158:HIS:H	1.70	0.87
50:DY:46:LYS:O	50:DY:47:LYS:HE3	1.74	0.87
31:BA:2463:C:C2'	31:BA:2464:C:H5'	2.05	0.87
33:BD:186:HIS:HD2	33:BD:188:GLU:H	0.90	0.87
41:BP:120:ALA:O	25:D3:1:MET:HG2	1.73	0.87
45:BT:23:ARG:HB2	45:BT:24:PRO:HD2	1.56	0.87
1:CA:1097:C:H1'	1:CA:1170:A:H1'	1.55	0.87
31:DA:2287:A:N6	31:DA:2344:U:H3	1.72	0.87
33:DD:221:VAL:HG22	33:DD:226:MET:HE2	1.56	0.87
34:DE:92:THR:H	34:DE:95:ILE:HD11	1.39	0.87
50:DY:38:ILE:HG22	50:DY:39:VAL:N	1.88	0.87
4:AD:119:GLN:HG3	4:AD:123:HIS:CD2	2.09	0.87
6:AF:69:GLU:O	6:AF:72:VAL:HG12	1.74	0.87
31:BA:482:A:H4'	50:BY:47:LYS:NZ	1.89	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BT:3:ARG:HB2	45:BT:6:LEU:HB3	1.54	0.87
2:CB:187:LEU:HD23	2:CB:201:ILE:HG22	1.56	0.87
31:DA:143:G:H2'	31:DA:143(A):C:H6	1.39	0.87
31:DA:2359:C:C2'	31:DA:2360:A:H5'	2.05	0.87
40:DO:107:ARG:NH1	45:DT:35:LYS:HB2	1.88	0.87
46:DU:92:ARG:HD2	47:DV:11:GLN:CG	2.04	0.87
31:BA:2523:G:H2'	31:BA:2524:G:H5'	1.57	0.87
8:CH:10:LEU:HD13	8:CH:83:ILE:HD11	1.54	0.87
11:CK:111:ASP:HA	18:CR:84:LYS:HG3	1.56	0.87
20:CT:50:GLU:HB3	20:CT:100:ILE:HG12	1.56	0.87
35:DF:164:ARG:HH11	35:DF:164:ARG:HG2	1.38	0.87
31:BA:1887:C:C2'	31:BA:1888:G:H5'	2.05	0.87
31:BA:2068:U:H3	31:BA:2430:A:H2	1.13	0.87
31:BA:2206:G:H21	31:BA:2207:G:C5'	1.86	0.87
47:BV:69:LYS:HG3	47:BV:70:ILE:H	1.35	0.87
4:CD:119:GLN:HG3	4:CD:123:HIS:CD2	2.10	0.87
31:DA:2305:A:H5"	36:DG:134:GLY:HA3	1.56	0.87
1:AA:444:C:H2'	1:AA:445:G:H8	1.39	0.87
9:AI:4:TYR:HB2	9:AI:19:LEU:HB2	1.57	0.87
43:BR:11:ASN:OD1	43:BR:12:ARG:N	2.08	0.87
23:D1:89:GLU:CD	23:D1:89:GLU:N	2.28	0.87
31:DA:669:G:H4'	31:DA:670:A:OP2	1.72	0.87
31:DA:1210:A:C5'	31:DA:1210:A:C8	2.58	0.87
31:BA:674:G:O2'	35:BF:74:ARG:HG3	1.73	0.87
31:BA:2789:C:OP1	31:BA:2789:C:H4'	1.74	0.87
51:BZ:101:PRO:O	51:BZ:102:LEU:HD23	1.74	0.87
30:D8:46:ARG:HH22	41:DP:65:ARG:NH2	1.70	0.87
31:DA:389:G:H22	41:DP:71:VAL:HG12	1.40	0.87
31:DA:2475:C:H5'	31:DA:2476:A:OP2	1.74	0.87
41:DP:146:VAL:HG22	41:DP:147:LEU:H	1.38	0.87
44:DS:87:PHE:O	44:DS:88:ASP:HB2	1.73	0.87
47:DV:47:VAL:HG13	47:DV:48:GLY:H	1.39	0.87
50:DY:71:LYS:HB2	50:DY:71:LYS:NZ	1.90	0.87
23:B1:17:SER:O	23:B1:44:PRO:HD2	1.74	0.87
32:BB:94:C:H2'	32:BB:95:C:H6	1.39	0.87
35:BF:178:PRO:HB2	35:BF:201:VAL:HG11	1.56	0.87
49:BX:82:GLN:HB3	49:BX:85:PRO:HG2	1.55	0.87
20:AT:50:GLU:HB3	20:AT:100:ILE:HG12	1.55	0.86
39:BN:91:LEU:HA	39:BN:95:PRO:HB3	1.57	0.86
4:CD:9:CYS:HA	4:CD:12:CYS:HB2	1.55	0.86
31:DA:141:A:C8	31:DA:1408:C:O2'	2.27	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DR:117:VAL:O	43:DR:118:GLU:HB2	1.74	0.86
4:AD:9:CYS:HA	4:AD:12:CYS:HB2	1.54	0.86
4:AD:119:GLN:HG3	4:AD:123:HIS:HD2	1.38	0.86
12:AL:38:THR:HG23	12:AL:39:VAL:HG23	1.57	0.86
33:BD:147:LEU:HD12	33:BD:155:LEU:HD21	1.54	0.86
4:CD:119:GLN:HG3	4:CD:123:HIS:HD2	1.40	0.86
9:CI:4:TYR:HB2	9:CI:19:LEU:HB2	1.57	0.86
49:DX:55:ASN:HB2	49:DX:78:LYS:HD2	1.54	0.86
1:AA:1090:U:H2'	1:AA:1091:U:H6	1.37	0.86
47:BV:18:LEU:HD22	47:BV:19:LYS:HA	1.56	0.86
9:CI:19:LEU:HD22	9:CI:59:PHE:HB3	1.57	0.86
31:DA:370:G:H4'	31:DA:371:A:OP2	1.74	0.86
31:DA:2307:G:N2	31:DA:2308:G:H5'	1.91	0.86
33:DD:158:ALA:N	33:DD:161:THR:HG21	1.90	0.86
41:DP:41:ARG:HA	41:DP:41:ARG:HH21	1.38	0.86
44:DS:95:HIS:CG	44:DS:96:GLY:H	1.94	0.86
45:DT:3:ARG:HB2	45:DT:6:LEU:HB3	1.55	0.86
50:DY:28:LYS:HA	50:DY:39:VAL:H	1.40	0.86
1:AA:737:A:H2'	1:AA:738:C:C6	2.11	0.86
28:B6:27:LYS:HD3	31:BA:2285:C:OP2	1.74	0.86
39:BN:78:TYR:HD1	39:BN:79:PRO:CD	1.88	0.86
41:BP:64:LYS:O	41:BP:66:GLY:N	2.08	0.86
1:CA:1169:A:H2'	1:CA:1170:A:C8	2.10	0.86
1:AA:585:G:H4'	12:AL:8:ASN:ND2	1.88	0.86
23:B1:87:PRO:HD2	23:B1:88:LYS:H	1.39	0.86
31:BA:370:G:H4'	31:BA:371:A:OP2	1.75	0.86
31:BA:1019:U:H3	31:BA:1142(A):A:N6	1.73	0.86
31:BA:1771:C:O2'	31:BA:1786:A:H8	1.57	0.86
1:CA:1065:U:H1'	1:CA:1066:C:OP2	1.76	0.86
3:CC:150:LYS:HB3	3:CC:201:TYR:HB2	1.58	0.86
31:DA:271(O):C:HO2'	31:DA:271(P):C:H5	1.22	0.86
31:DA:2681:C:H5	31:DA:2725:A:N6	1.72	0.86
31:BA:2012:G:H4'	48:BW:96:ILE:HD11	1.57	0.86
1:CA:1090:U:H2'	1:CA:1091:U:H6	1.38	0.86
31:DA:2012:G:H4'	48:DW:96:ILE:HD11	1.58	0.86
31:DA:2789:C:H4'	31:DA:2789:C:OP1	1.74	0.86
33:DD:35:LYS:HG2	33:DD:64:ILE:N	1.91	0.86
35:DF:135:LYS:HB3	35:DF:138:GLU:HG3	1.55	0.86
39:DN:39:ARG:HD3	39:DN:41:ASP:HB2	1.55	0.86
51:DZ:73:GLN:HG2	51:DZ:87:ASP:OD1	1.75	0.86
2:AB:111:ARG:HG2	2:AB:111:ARG:NH1	1.90	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B5:51:TYR:CD2	27:B5:52:TYR:CE2	2.64	0.86
31:BA:1210:A:C5'	31:BA:1210:A:C8	2.58	0.86
37:BH:41:MET:SD	37:BH:55:PRO:HD3	2.16	0.86
1:CA:59:A:H5"	1:CA:60:A:H5"	1.58	0.86
31:DA:1019:U:H3	31:DA:1142(A):A:N6	1.72	0.86
49:DX:82:GLN:HB3	49:DX:85:PRO:HG2	1.55	0.86
10:AJ:32:ALA:HB2	10:AJ:76:ASN:HB3	1.54	0.86
16:AP:28:ARG:HG2	16:AP:28:ARG:NH1	1.91	0.86
22:B0:72:ARG:HB2	22:B0:75:LEU:HB2	1.58	0.86
51:BZ:73:GLN:HG2	51:BZ:87:ASP:OD1	1.74	0.86
15:CO:39:LEU:CD1	15:CO:56:LEU:HB2	2.05	0.86
16:CP:20:VAL:HG21	16:CP:32:TYR:HB2	1.57	0.86
31:DA:2223:G:H2'	31:DA:2224:G:H5'	1.58	0.86
8:AH:88:LYS:HB3	8:AH:89:PRO:HD2	1.55	0.86
35:BF:20:LEU:HD22	35:BF:203:GLN:HE22	1.40	0.86
1:CA:737:A:H2'	1:CA:738:C:C6	2.10	0.86
11:CK:29:ILE:HB	11:CK:44:SER:HB3	1.58	0.86
35:DF:24:LEU:HB3	35:DF:25:PRO:HD2	1.55	0.86
31:BA:143:G:H2'	31:BA:143(A):C:H6	1.40	0.86
31:BA:587:C:C5	41:BP:33:ARG:HG2	2.11	0.86
31:BA:1210:A:H5"	31:BA:1210:A:C8	2.10	0.86
40:BO:107:ARG:NH1	45:BT:35:LYS:HB2	1.89	0.86
1:CA:250:A:H4'	1:CA:251:G:O5'	1.73	0.86
34:DE:116:VAL:HG21	34:DE:122:PHE:CD2	2.10	0.86
36:DG:52:ILE:HG22	36:DG:54:GLU:HG3	1.55	0.86
1:AA:240:C:H2'	1:AA:241:C:H6	1.41	0.85
1:AA:336:C:O2'	1:AA:337:C:H5'	1.75	0.85
1:AA:1442(A):G:H3'	1:AA:1442(B):A:C5'	2.02	0.85
11:AK:29:ILE:HB	11:AK:44:SER:HB3	1.58	0.85
31:BA:1024:G:H3'	31:BA:1025:G:H5"	1.58	0.85
31:BA:1798:U:H5"	33:BD:259:THR:HG22	1.56	0.85
1:CA:1070:U:H2'	1:CA:1071:C:H6	1.41	0.85
5:CE:101:ILE:HD11	5:CE:119:LEU:HA	1.58	0.85
48:DW:4:LYS:HB2	48:DW:106:ILE:HG22	1.58	0.85
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.10	0.85
1:AA:1493:A:H2'	31:BA:1913:A:N1	1.91	0.85
31:BA:2359:C:C2'	31:BA:2360:A:H5'	2.06	0.85
34:BE:132:HIS:CD2	34:BE:135:HIS:NE2	2.45	0.85
45:BT:30:VAL:HG12	45:BT:44:ASP:OD2	1.75	0.85
50:DY:76:CYS:SG	50:DY:77:PRO:HD2	2.15	0.85
1:AA:1065:U:H1'	1:AA:1066:C:OP2	1.76	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.10	0.85
1:CA:973:G:H3'	1:CA:974:A:H5"	1.58	0.85
28:D6:12:GLU:HB3	28:D6:23:THR:HA	1.58	0.85
31:DA:1434:A:H61	31:DA:1558:A:H62	1.24	0.85
39:DN:78:TYR:HD1	39:DN:79:PRO:CD	1.88	0.85
45:DT:91:ARG:HB2	45:DT:116:ALA:HA	1.56	0.85
23:B1:19:GLN:HE21	31:BA:379:G:H21	1.23	0.85
31:BA:863:A:O2'	31:BA:864:G:H5'	1.77	0.85
36:BG:85:GLY:O	36:BG:87:PRO:HD2	1.76	0.85
43:BR:117:VAL:O	43:BR:118:GLU:HB2	1.76	0.85
1:CA:444:C:H2'	1:CA:445:G:H8	1.40	0.85
22:D0:72:ARG:HB2	22:D0:75:LEU:HB2	1.58	0.85
31:DA:1024:G:H3'	31:DA:1025:G:H5"	1.59	0.85
31:DA:1778:U:H2'	31:DA:1784:A:N6	1.92	0.85
32:BB:66:A:H61	32:BB:108:U:H2'	1.42	0.85
33:BD:25:THR:HG21	33:BD:81:ALA:CB	2.05	0.85
13:CM:66:LEU:H	13:CM:66:LEU:HD12	1.42	0.85
1:AA:444:C:H2'	1:AA:445:G:C8	2.11	0.85
1:AA:1070:U:H2'	1:AA:1071:C:H6	1.40	0.85
23:B1:89:GLU:CD	23:B1:89:GLU:N	2.25	0.85
39:BN:65:LYS:HA	39:BN:65:LYS:CE	2.03	0.85
48:BW:9:TYR:H	48:BW:102:HIS:HD2	1.20	0.85
51:BZ:166:SER:OG	51:BZ:167:PRO:HA	1.77	0.85
1:CA:444:C:H2'	1:CA:445:G:C8	2.12	0.85
24:D2:17:SER:O	24:D2:21:LEU:HD12	1.76	0.85
28:D6:27:LYS:HD3	31:DA:2285:C:OP2	1.76	0.85
31:DA:863:A:O2'	31:DA:864:G:H5'	1.77	0.85
31:DA:996:A:H4'	46:DU:92:ARG:HE	1.40	0.85
33:DD:159:ALA:H	33:DD:161:THR:HG22	1.41	0.85
50:DY:95:LYS:CD	50:DY:100:ALA:HB1	2.05	0.85
50:BY:95:LYS:CD	50:BY:100:ALA:HB1	2.07	0.85
1:CA:336:C:O2'	1:CA:337:C:H5'	1.76	0.85
1:CA:1279:A:H5"	1:CA:1280:A:OP1	1.77	0.85
31:BA:141:A:C8	31:BA:1408:C:O2'	2.28	0.85
37:BH:33:LEU:HD21	37:BH:136:ILE:HD12	1.57	0.85
26:D4:1:MET:H3	36:DG:67:LYS:HZ2	1.24	0.85
37:DH:41:MET:SD	37:DH:55:PRO:HD3	2.16	0.85
31:BA:1503:U:C4	31:BA:1504:C:N4	2.45	0.85
42:BQ:37:LEU:HB2	42:BQ:128:LYS:O	1.76	0.85
45:BT:65:LYS:HE3	45:BT:66:VAL:N	1.89	0.85
50:BY:38:ILE:HG22	50:BY:39:VAL:N	1.90	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:172:C:H3'	31:DA:173:G:H5"	1.56	0.85
31:DA:796:C:H2'	31:DA:797:C:C6	2.11	0.85
31:DA:1639:U:H2'	31:DA:1640:C:H5"	1.59	0.85
31:DA:2030:A:H5"	31:DA:2031:A:OP1	1.77	0.85
50:BY:7:VAL:HB	50:BY:8:LYS:HZ2	1.39	0.85
31:DA:1210:A:H5"	31:DA:1210:A:C8	2.11	0.85
33:DD:35:LYS:HZ1	33:DD:65:ILE:HA	1.40	0.85
33:DD:253:GLN:HB3	33:DD:255:LYS:NZ	1.92	0.85
41:DP:115:LEU:HA	41:DP:134:ALA:HB2	1.57	0.85
47:DV:21:ARG:CG	47:DV:93:GLU:HG3	2.05	0.85
32:BB:7:G:C2'	32:BB:8:U:H5"	2.06	0.84
33:BD:25:THR:CG2	33:BD:81:ALA:HB1	2.06	0.84
33:BD:235:GLY:O	33:BD:237:GLU:HG2	1.77	0.84
1:CA:949:A:H61	1:CA:1232:U:H3	1.25	0.84
42:DQ:75:THR:HA	42:DQ:88:GLY:CA	2.06	0.84
43:DR:11:ASN:OD1	43:DR:12:ARG:N	2.09	0.84
48:DW:59:VAL:HG12	48:DW:60:ASN:N	1.89	0.84
3:AC:70:VAL:HG12	3:AC:72:LYS:H	1.42	0.84
30:B8:31:HIS:CG	31:BA:2419:U:O4	2.29	0.84
12:CL:102:ARG:HH11	12:CL:102:ARG:HG3	1.40	0.84
31:DA:1887:C:C2'	31:DA:1888:G:H5'	2.07	0.84
33:DD:267:SER:C	33:DD:269:PHE:H	1.86	0.84
39:DN:14:VAL:HG12	39:DN:52:VAL:HA	1.56	0.84
47:DV:62:LEU:HD22	47:DV:98:GLU:HB2	1.58	0.84
23:B1:46:LEU:HD12	23:B1:46:LEU:N	1.89	0.84
42:BQ:75:THR:HA	42:BQ:88:GLY:CA	2.06	0.84
50:DY:45:VAL:HG13	50:DY:62:GLU:HB2	1.56	0.84
1:AA:59:A:H5"	1:AA:60:A:H5"	1.58	0.84
1:AA:671:G:H2'	1:AA:672:U:H6	1.41	0.84
1:AA:949:A:H1'	1:AA:1364:U:H3	1.43	0.84
31:BA:1403:C:H5"	31:BA:1471:A:H1'	1.58	0.84
30:D8:50:LEU:HD12	30:D8:51:ALA:H	1.40	0.84
36:DG:47:LYS:HG2	36:DG:82:LEU:HG	1.59	0.84
31:BA:2321:G:H5"	31:BA:2322:A:OP2	1.75	0.84
1:CA:585:G:H4'	12:CL:8:ASN:ND2	1.92	0.84
1:CA:600:C:H2'	1:CA:601:C:H6	1.40	0.84
1:CA:673:G:H2'	1:CA:674:G:H8	1.38	0.84
15:CO:17:ARG:HH11	15:CO:17:ARG:CG	1.90	0.84
31:DA:1332:G:C8	31:DA:1332:G:H5"	2.13	0.84
31:DA:1798:U:H5"	33:DD:259:THR:HG22	1.57	0.84
27:B5:40:LYS:HE2	27:B5:46:CYS:HB3	1.56	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:996:A:H4'	46:BU:92:ARG:HE	1.41	0.84
33:BD:159:ALA:N	33:BD:161:THR:HG22	1.92	0.84
37:BH:30:LYS:NZ	37:BH:81:GLU:HA	1.93	0.84
51:BZ:53:ILE:CG2	51:BZ:71:VAL:HB	2.07	0.84
1:CA:1442(A):G:H3'	1:CA:1442(B):A:C5'	2.02	0.84
31:DA:1503:U:C4	31:DA:1504:C:N4	2.45	0.84
1:AA:55:A:C5	1:AA:56:U:C5	2.65	0.84
31:BA:1047:G:H21	31:BA:1111:A:H62	1.25	0.84
31:BA:1790:C:H5"	31:BA:1791:A:OP1	1.78	0.84
41:BP:97:PRO:O	41:BP:98:GLU:HB3	1.75	0.84
41:DP:62:LEU:N	41:DP:62:LEU:HD22	1.90	0.84
31:BA:141:A:H8	31:BA:1408:C:O2'	1.61	0.84
41:BP:146:VAL:HG13	41:BP:147:LEU:HG	1.60	0.84
42:BQ:81:VAL:HG12	42:BQ:82:ARG:CG	2.08	0.84
15:CO:39:LEU:HD12	15:CO:56:LEU:HB2	1.60	0.84
31:DA:271(L):U:H4'	31:DA:271(M):G:C5	2.13	0.84
1:AA:677:U:H3	1:AA:713:G:H22	1.25	0.84
28:B6:44:ARG:O	28:B6:45:LYS:HG2	1.76	0.84
31:BA:1188:U:H2'	31:BA:1189:A:H5'	1.58	0.84
48:BW:29:LEU:O	48:BW:33:ARG:HG3	1.78	0.84
23:D1:10:LYS:HB2	23:D1:14:VAL:H	1.40	0.84
31:DA:1019:U:HO2'	31:DA:1021:A:H2	0.86	0.84
31:BA:92:A:O2'	31:BA:93:G:H5'	1.78	0.84
31:BA:146:G:H5'	31:BA:146:G:H8	1.43	0.84
31:BA:271(L):U:H4'	31:BA:271(M):G:C5	2.13	0.84
31:BA:1434:A:H61	31:BA:1558:A:H62	1.26	0.84
1:CA:1502:A:H2	1:CA:1505:G:N1	1.75	0.84
28:D6:44:ARG:O	28:D6:45:LYS:HG2	1.77	0.84
50:BY:28:LYS:O	50:BY:38:ILE:HB	1.78	0.83
22:D0:43:THR:H	31:DA:2331:G:H4'	1.42	0.83
30:D8:6:THR:HG21	31:DA:243:U:OP1	1.78	0.83
39:DN:40:PRO:HA	46:DU:64:ARG:HH22	1.41	0.83
45:DT:65:LYS:HE3	45:DT:66:VAL:N	1.92	0.83
47:DV:19:LYS:HG2	47:DV:96:ILE:HB	1.58	0.83
48:DW:29:LEU:O	48:DW:33:ARG:HG3	1.77	0.83
13:AM:66:LEU:H	13:AM:66:LEU:HD12	1.43	0.83
33:BD:25:THR:HG23	33:BD:27:THR:HB	1.59	0.83
42:BQ:52:VAL:HA	42:BQ:55:VAL:HG13	1.60	0.83
44:BS:34:HIS:HB3	44:BS:53:SER:CB	2.08	0.83
31:DA:92:A:O2'	31:DA:93:G:H5'	1.78	0.83
31:DA:674:G:O2'	35:DF:74:ARG:HG3	1.78	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1464:C:HO2'	31:DA:1528:A:H8	0.95	0.83
31:DA:1771:C:O2'	31:DA:1786:A:H8	1.59	0.83
39:DN:65:LYS:HA	39:DN:65:LYS:CE	2.03	0.83
27:B5:40:LYS:CE	27:B5:46:CYS:HB3	2.08	0.83
28:B6:12:GLU:HB3	28:B6:23:THR:HA	1.60	0.83
12:CL:38:THR:HG23	12:CL:39:VAL:HG23	1.59	0.83
23:D1:86:SER:N	23:D1:87:PRO:HD3	1.91	0.83
28:D6:16:CYS:O	28:D6:17:LYS:HB2	1.76	0.83
44:DS:89:ARG:HA	44:DS:89:ARG:HE	1.40	0.83
44:BS:89:ARG:O	44:BS:92:TYR:HB3	1.78	0.83
31:DA:2036:C:H5'	31:DA:2036:C:H6	1.42	0.83
41:DP:50:ARG:HG2	41:DP:50:ARG:HH21	1.42	0.83
50:DY:96:ILE:HD12	50:DY:99:CYS:SG	2.17	0.83
15:AO:17:ARG:HG3	15:AO:17:ARG:NH1	1.93	0.83
32:BB:75:G:H8	32:BB:75:G:H5'	1.42	0.83
31:DA:1962:C:O2'	31:DA:1964:G:OP2	1.96	0.83
41:DP:64:LYS:O	41:DP:66:GLY:N	2.11	0.83
1:AA:737:A:H2'	1:AA:738:C:H6	1.44	0.83
1:AA:1502:A:H2	1:AA:1505:G:N1	1.74	0.83
33:BD:267:SER:C	33:BD:269:PHE:H	1.85	0.83
47:BV:21:ARG:CG	47:BV:93:GLU:HG3	2.06	0.83
50:BY:45:VAL:HG13	50:BY:62:GLU:HB2	1.59	0.83
37:DH:41:MET:HB3	37:DH:43:VAL:CG1	2.09	0.83
45:DT:23:ARG:HB2	45:DT:24:PRO:HD2	1.60	0.83
1:AA:63:C:H42	1:AA:104:G:H1	1.26	0.83
20:AT:50:GLU:HB3	20:AT:100:ILE:CG1	2.08	0.83
30:B8:59:LYS:HB2	30:B8:59:LYS:HZ2	1.34	0.83
31:BA:1952:A:C5	40:BO:22:ILE:HD11	2.12	0.83
36:BG:47:LYS:HG2	36:BG:82:LEU:HG	1.61	0.83
1:CA:254:G:OP1	17:CQ:67:LYS:O	1.95	0.83
31:DA:2818:G:O2'	31:DA:2819:G:H5'	1.78	0.83
34:DE:47:VAL:HG22	34:DE:84:PHE:O	1.79	0.83
44:DS:89:ARG:O	44:DS:92:TYR:HB3	1.79	0.83
1:AA:409:G:H2'	1:AA:410:G:H5'	1.60	0.83
15:AO:39:LEU:HD12	15:AO:56:LEU:HB2	1.60	0.83
23:B1:10:LYS:HB2	23:B1:14:VAL:H	1.42	0.83
23:B1:65:SER:H	23:B1:67:ILE:CD1	1.90	0.83
27:B5:2:ALA:HA	31:BA:2015:A:H1'	1.59	0.83
31:BA:1882:C:H5'	31:BA:1883:G:OP2	1.79	0.83
37:BH:41:MET:HB3	37:BH:43:VAL:CG1	2.09	0.83
41:BP:115:LEU:HA	41:BP:134:ALA:HB2	1.59	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BY:96:ILE:HD12	50:BY:99:CYS:SG	2.18	0.83
1:CA:63:C:H42	1:CA:104:G:H1	1.23	0.83
1:AA:600:C:H2'	1:AA:601:C:H6	1.41	0.83
7:AG:113:GLU:HB2	7:AG:119:ARG:HG2	1.60	0.83
23:B1:10:LYS:HD3	23:B1:14:VAL:HA	1.61	0.83
31:BA:669:G:H4'	31:BA:670:A:OP2	1.78	0.83
34:BE:92:THR:H	34:BE:95:ILE:HD11	1.43	0.83
34:BE:116:VAL:HG21	34:BE:122:PHE:CD2	2.13	0.83
39:BN:3:THR:HG22	39:BN:4:TYR:N	1.94	0.83
47:BV:90:PRO:HG2	47:BV:91:TYR:H	1.44	0.83
37:DH:85:LYS:CE	37:DH:133:VAL:HB	2.09	0.83
37:DH:156:ALA:H	37:DH:158:HIS:H	1.26	0.83
41:DP:122:PRO:HA	41:DP:141:ALA:O	1.78	0.83
29:B7:8:ASN:HD21	29:B7:11:LYS:H	1.22	0.83
31:BA:2801(A):A:H4'	31:BA:2802:G:H5'	1.61	0.83
33:BD:253:GLN:HB3	33:BD:255:LYS:HZ3	1.43	0.83
34:BE:47:VAL:HG22	34:BE:84:PHE:O	1.79	0.83
38:BI:133:HIS:HB2	38:BI:134:PRO:CD	2.09	0.83
44:BS:89:ARG:HA	44:BS:89:ARG:HE	1.41	0.83
7:CG:150:ALA:HB2	11:CK:50:TYR:CZ	2.14	0.83
20:CT:50:GLU:HB3	20:CT:100:ILE:CG1	2.08	0.83
27:D5:40:LYS:CE	27:D5:46:CYS:HB3	2.09	0.83
1:AA:333:G:H4'	20:AT:16:HIS:CE1	2.14	0.82
31:BA:1484:G:N2	31:BA:1505:C:H5	1.77	0.82
49:BX:77:LYS:HG2	49:BX:78:LYS:HG3	1.61	0.82
38:DI:133:HIS:HB2	38:DI:134:PRO:CD	2.09	0.82
41:DP:146:VAL:HG13	41:DP:147:LEU:HG	1.60	0.82
42:DQ:8:LYS:CG	42:DQ:9:TYR:H	1.92	0.82
50:DY:96:ILE:HG21	50:DY:99:CYS:HB3	1.60	0.82
1:AA:949:A:H61	1:AA:1232:U:H3	1.26	0.82
16:AP:20:VAL:HG21	16:AP:32:TYR:HB2	1.60	0.82
31:BA:2068:U:N3	31:BA:2430:A:H2	1.77	0.82
28:D6:15:GLU:OE1	28:D6:18:ARG:HG3	1.77	0.82
31:DA:197:A:H8	31:DA:197:A:H5'	1.44	0.82
31:DA:1839:G:C8	31:DA:1927:A:H1'	2.13	0.82
33:DD:77:ALA:HB2	33:DD:97:TYR:CD2	2.13	0.82
45:DT:30:VAL:HG21	45:DT:83:ILE:HG13	1.60	0.82
31:BA:1651:G:C2'	31:BA:1652:A:H5"	2.09	0.82
31:BA:2712(A):A:H5"	31:BA:2713:A:OP2	1.80	0.82
34:BE:117:MET:O	34:BE:118:LYS:HB2	1.79	0.82
37:BH:156:ALA:H	37:BH:158:HIS:H	1.23	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BV:15:GLU:HB3	47:BV:16:PRO:HD2	1.60	0.82
27:D5:2:ALA:HA	31:DA:2015:A:H1'	1.59	0.82
31:DA:1348:G:H2'	31:DA:1349:A:H5"	1.59	0.82
33:DD:108:PRO:HB3	33:DD:143:HIS:CE1	2.15	0.82
46:DU:27:LEU:N	46:DU:27:LEU:HD23	1.93	0.82
50:DY:37:VAL:HG23	50:DY:67:LEU:HB3	1.61	0.82
5:AE:101:ILE:HD11	5:AE:119:LEU:HD23	1.62	0.82
31:BA:481:G:OP2	50:BY:47:LYS:HD2	1.79	0.82
31:BA:1348:G:H2'	31:BA:1349:A:H5"	1.59	0.82
46:BU:92:ARG:HB2	47:BV:11:GLN:NE2	1.94	0.82
47:BV:43:GLU:HA	47:BV:48:GLY:HA2	1.61	0.82
23:D1:87:PRO:HD2	23:D1:88:LYS:H	1.43	0.82
31:DA:1484:G:N2	31:DA:1505:C:H5	1.78	0.82
34:DE:7:VAL:HG21	45:DT:1:MET:HE1	1.61	0.82
45:DT:32:TYR:CG	45:DT:81:PRO:HB2	2.14	0.82
51:DZ:166:SER:OG	51:DZ:167:PRO:HA	1.79	0.82
1:AA:973:G:H3'	1:AA:974:A:H5"	1.61	0.82
1:AA:1279:A:H5"	1:AA:1280:A:OP1	1.79	0.82
2:AB:98:LEU:HB2	2:AB:101:MET:HE3	1.60	0.82
11:AK:111:ASP:HA	18:AR:84:LYS:HG3	1.60	0.82
31:BA:1434:A:H61	31:BA:1558:A:N6	1.78	0.82
39:BN:40:PRO:HA	46:BU:64:ARG:HH22	1.42	0.82
50:BY:38:ILE:HG22	50:BY:39:VAL:H	1.44	0.82
31:DA:1434:A:H61	31:DA:1558:A:N6	1.78	0.82
31:DA:2292:C:O2'	31:DA:2293:C:H5'	1.77	0.82
35:DF:160:ASN:HD22	35:DF:160:ASN:C	1.87	0.82
24:B2:14:ARG:O	24:B2:18:PRO:HD3	1.79	0.82
31:BA:2476:A:C6	31:BA:2477:C:C5	2.67	0.82
45:BT:12:SER:O	45:BT:13:ARG:HG2	1.79	0.82
1:CA:678:U:H2'	1:CA:679:C:C6	2.14	0.82
1:CA:737:A:H2'	1:CA:738:C:H6	1.43	0.82
15:CO:33:THR:HG21	15:CO:85:LEU:HD22	1.62	0.82
30:D8:31:HIS:CG	31:DA:2419:U:O4	2.31	0.82
30:D8:32:LEU:HB3	30:D8:35:GLN:N	1.94	0.82
31:DA:518:G:H4'	48:DW:18:ARG:NH1	1.94	0.82
31:DA:993:G:H5"	47:DV:75:PHE:CE2	2.14	0.82
34:DE:132:HIS:CD2	34:DE:135:HIS:NE2	2.47	0.82
31:BA:856:C:H4'	31:BA:857:C:OP1	1.78	0.82
31:BA:1639:U:H2'	31:BA:1640:C:H5"	1.61	0.82
36:BG:55:LYS:O	36:BG:59:GLU:HB2	1.80	0.82
47:BV:19:LYS:CG	47:BV:20:LEU:N	2.41	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:17:U:H2'	1:CA:18:C:C6	2.14	0.82
31:DA:1396:U:O2	31:DA:1396:U:H2'	1.78	0.82
39:DN:56:ASN:H	39:DN:125:GLY:HA3	1.45	0.82
41:DP:62:LEU:H	41:DP:62:LEU:HD13	1.41	0.82
50:DY:27:VAL:HB	50:DY:29:GLU:OE1	1.78	0.82
14:AN:4:LYS:O	14:AN:7:ILE:HG12	1.78	0.82
31:BA:1292:U:H2'	31:BA:1293:C:C6	2.15	0.82
31:BA:1971:A:H1'	33:BD:240:ALA:O	1.79	0.82
10:CJ:40:LEU:HB2	10:CJ:41:PRO:HD2	1.62	0.82
31:DA:1826:G:H4'	33:DD:242:ARG:NH2	1.94	0.82
31:DA:2702:U:HO2'	31:DA:2703:C:H5	1.23	0.82
37:DH:20:ALA:HB1	37:DH:21:PRO:HD2	1.60	0.82
38:DI:85:GLU:O	38:DI:123:LEU:HD12	1.79	0.82
45:DT:30:VAL:HG12	45:DT:44:ASP:OD2	1.78	0.82
49:DX:72:LYS:HG3	49:DX:74:PRO:HD3	1.59	0.82
5:AE:101:ILE:HD11	5:AE:119:LEU:HA	1.59	0.82
31:BA:1332:G:H5"	31:BA:1332:G:C8	2.14	0.82
31:BA:1654:A:OP1	43:BR:3:HIS:HB2	1.80	0.82
51:BZ:69:THR:HG22	51:BZ:90:VAL:HA	1.62	0.82
7:CG:113:GLU:HB2	7:CG:119:ARG:HG2	1.59	0.82
15:CO:17:ARG:HG3	15:CO:17:ARG:NH1	1.91	0.82
31:DA:587:C:C5	41:DP:33:ARG:HG2	2.15	0.82
31:DA:2321:G:H5"	31:DA:2322:A:OP2	1.79	0.82
31:DA:2334:G:H21	44:DS:18:ILE:CD1	1.93	0.82
1:AA:1199:U:H4'	10:AJ:54:PHE:CE1	2.15	0.82
2:AB:204:ASN:ND2	2:AB:206:ASP:H	1.77	0.82
37:BH:85:LYS:CE	37:BH:133:VAL:HB	2.10	0.82
51:BZ:141:VAL:HG23	51:BZ:144:LEU:HD23	1.61	0.82
51:BZ:151:HIS:CB	51:BZ:170:THR:HA	2.05	0.82
31:DA:860:U:H5	31:DA:917:A:N7	1.78	0.82
31:DA:1497:U:C5'	31:DA:1498:C:H5	1.93	0.82
32:DB:20:C:H2'	32:DB:21:G:C5'	2.07	0.82
33:DD:25:THR:HG23	33:DD:27:THR:HB	1.60	0.82
34:DE:152:LYS:HD3	39:DN:78:TYR:HB2	1.60	0.82
38:DI:72:LEU:HD12	38:DI:138:ILE:HG23	1.59	0.82
47:DV:43:GLU:HA	47:DV:48:GLY:HA2	1.62	0.82
41:BP:50:ARG:HG2	41:BP:50:ARG:HH21	1.42	0.81
50:BY:97:ARG:HG3	50:BY:97:ARG:O	1.79	0.81
30:D8:62:LEU:HD13	31:DA:242:G:H5"	1.62	0.81
33:DD:146:GLU:HB2	33:DD:189:CYS:HB3	1.61	0.81
34:DE:36:ARG:NH2	34:DE:88:GLY:HA2	1.94	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DY:96:ILE:HG13	50:DY:99:CYS:O	1.79	0.81
31:BA:993:G:H5"	47:BV:75:PHE:CE2	2.13	0.81
31:BA:1528(A):A:N7	31:BA:1529:G:C8	2.48	0.81
33:BD:210:GLY:O	33:BD:211:ARG:HB3	1.78	0.81
34:BE:34:VAL:HG22	34:BE:48:GLN:HE21	1.42	0.81
40:BO:7:TYR:HE1	40:BO:20:MET:HE3	1.46	0.81
41:BP:122:PRO:HA	41:BP:141:ALA:O	1.79	0.81
1:CA:949:A:H1'	1:CA:1364:U:H3	1.44	0.81
4:CD:31:CYS:C	4:CD:33:MET:H	1.87	0.81
42:DQ:52:VAL:HA	42:DQ:55:VAL:HG13	1.62	0.81
8:AH:102:ARG:H	8:AH:102:ARG:HE	1.29	0.81
27:B5:48:GLU:O	27:B5:50:GLY:N	2.14	0.81
39:BN:14:VAL:HG12	39:BN:52:VAL:HA	1.61	0.81
39:BN:56:ASN:H	39:BN:125:GLY:HA3	1.44	0.81
42:BQ:141:GLN:HG3	51:BZ:72:ARG:HH11	1.45	0.81
47:BV:82:ARG:HH11	47:BV:82:ARG:HG2	1.44	0.81
48:BW:4:LYS:HB2	48:BW:106:ILE:HG22	1.63	0.81
1:CA:333:G:H4'	20:CT:16:HIS:CE1	2.16	0.81
1:CA:1199:U:H4'	10:CJ:54:PHE:CE1	2.15	0.81
31:DA:1292:U:H2'	31:DA:1293:C:C6	2.15	0.81
46:DU:92:ARG:HB2	47:DV:11:GLN:NE2	1.96	0.81
47:DV:25:LEU:H	47:DV:94:LEU:CD1	1.94	0.81
1:AA:382:A:H2'	1:AA:383:A:C8	2.16	0.81
4:AD:133:VAL:HG13	4:AD:135:LEU:HD22	1.62	0.81
30:B8:32:LEU:HG	30:B8:34:TRP:CE3	2.15	0.81
31:BA:2712:U:H5"	31:BA:2712:U:O2	1.80	0.81
33:BD:35:LYS:CD	33:BD:63:ARG:HB3	2.07	0.81
35:BF:52:LYS:HG3	35:BF:56:GLU:HB3	1.61	0.81
41:BP:51:PHE:HB3	41:BP:52:GLU:HG2	1.61	0.81
1:CA:1072:G:H2'	1:CA:1073:U:H6	1.44	0.81
14:CN:4:LYS:O	14:CN:7:ILE:HG12	1.80	0.81
30:D8:59:LYS:HB2	30:D8:59:LYS:HZ2	1.38	0.81
31:DA:271(O):C:O2'	31:DA:271(P):C:H5	1.62	0.81
31:DA:1019:U:O2'	31:DA:1021:A:H2	1.62	0.81
1:AA:382:A:H2'	1:AA:383:A:H8	1.46	0.81
33:BD:8:PRO:HB3	33:BD:14:ARG:HB2	1.60	0.81
3:CC:70:VAL:HG12	3:CC:72:LYS:H	1.44	0.81
22:D0:43:THR:HG22	31:DA:2331:G:O3'	1.79	0.81
16:AP:48:TRP:CD1	16:AP:48:TRP:H	1.97	0.81
23:B1:87:PRO:CD	23:B1:88:LYS:H	1.92	0.81
30:B8:50:LEU:HD12	30:B8:51:ALA:H	1.43	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1396:U:H2'	31:BA:1396:U:O2	1.79	0.81
33:BD:158:ALA:N	33:BD:161:THR:HG21	1.94	0.81
34:BE:36:ARG:NH2	34:BE:88:GLY:HA2	1.94	0.81
37:BH:41:MET:HB3	37:BH:43:VAL:HG13	1.61	0.81
42:BQ:82:ARG:O	42:BQ:83:MET:HB2	1.80	0.81
39:DN:24:GLY:HA2	39:DN:27:ALA:HB3	1.61	0.81
42:DQ:81:VAL:HG12	42:DQ:82:ARG:CG	2.10	0.81
49:DX:65:ARG:CZ	49:DX:66:LEU:N	2.43	0.81
1:AA:559:A:H5"	1:AA:560:U:H3'	1.62	0.81
33:BD:35:LYS:HG2	33:BD:64:ILE:H	1.44	0.81
33:BD:44:ASN:CB	33:BD:49:ILE:HA	2.10	0.81
33:BD:158:ALA:H	33:BD:161:THR:HG21	1.45	0.81
47:BV:66:ARG:HD2	47:BV:67:GLY:N	1.96	0.81
48:BW:59:VAL:HG12	48:BW:60:ASN:N	1.95	0.81
6:CF:63:TYR:N	6:CF:63:TYR:HD2	1.78	0.81
45:DT:12:SER:O	45:DT:13:ARG:HG2	1.81	0.81
1:AA:622:A:C8	1:AA:623:C:C6	2.69	0.81
31:BA:1839:G:C8	31:BA:1927:A:H1'	2.16	0.81
31:BA:2475:C:H5'	31:BA:2476:A:OP2	1.81	0.81
33:BD:30:GLU:HG3	33:BD:63:ARG:NE	1.96	0.81
35:BF:160:ASN:C	35:BF:160:ASN:HD22	1.87	0.81
16:CP:48:TRP:H	16:CP:48:TRP:CD1	1.94	0.81
31:DA:286:C:C2'	31:DA:287:C:H5'	2.10	0.81
31:DA:1654:A:OP1	43:DR:3:HIS:HB2	1.81	0.81
50:DY:38:ILE:CG2	50:DY:39:VAL:N	2.43	0.81
1:AA:1452:C:H5'	1:AA:1456:G:C4	2.16	0.81
28:B6:15:GLU:OE1	28:B6:18:ARG:HG3	1.81	0.81
28:B6:46:HIS:CB	28:B6:47:THR:N	2.43	0.81
39:BN:3:THR:C	39:BN:4:TYR:CG	2.59	0.81
41:BP:24:GLY:HA3	41:BP:33:ARG:HH21	1.46	0.81
41:BP:36:LYS:O	41:BP:38:GLN:HG2	1.80	0.81
42:BQ:60:ARG:HA	51:BZ:179:ASP:N	1.96	0.81
43:BR:53:HIS:HD2	43:BR:94:TYR:OH	1.64	0.81
50:BY:10:GLY:CA	50:BY:27:VAL:HG13	2.05	0.81
1:CA:1003:G:H2'	1:CA:1004:A:H4'	1.62	0.81
23:D1:65:SER:H	23:D1:67:ILE:CD1	1.94	0.81
31:DA:2712:U:O2	31:DA:2712:U:H5"	1.81	0.81
33:BD:267:SER:HA	33:BD:270:ILE:HG13	1.62	0.81
36:BG:67:LYS:HD2	36:BG:67:LYS:H	1.45	0.81
49:BX:55:ASN:HB2	49:BX:78:LYS:CD	2.11	0.81
25:D3:40:THR:HG23	25:D3:43:ILE:HG12	1.63	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D6:46:HIS:CB	28:D6:47:THR:N	2.44	0.81
31:DA:1882:C:H5'	31:DA:1883:G:OP2	1.81	0.81
6:AF:63:TYR:N	6:AF:63:TYR:HD2	1.78	0.80
22:B0:8:GLY:HA3	31:BA:2255:G:H21	1.46	0.80
30:B8:6:THR:HG21	31:BA:243:U:OP1	1.81	0.80
30:B8:35:GLN:HE21	30:B8:36:LYS:HZ2	1.29	0.80
31:BA:271(O):C:O2'	31:BA:271(P):C:H5	1.63	0.80
31:BA:286:C:C2'	31:BA:287:C:H5'	2.11	0.80
34:BE:37:ARG:HD3	34:BE:44:TYR:OH	1.81	0.80
47:BV:82:ARG:HH11	47:BV:82:ARG:HG3	1.45	0.80
1:CA:134:A:H61	16:CP:25:ARG:HH12	1.29	0.80
1:CA:671:G:H2'	1:CA:672:U:H6	1.45	0.80
6:CF:99:ALA:HB1	18:CR:23:LYS:HZ2	1.46	0.80
22:D0:8:GLY:HA3	31:DA:2255:G:H21	1.47	0.80
31:DA:867:C:O2	31:DA:913:U:H5'	1.81	0.80
1:AA:17:U:H2'	1:AA:18:C:C6	2.16	0.80
23:B1:86:SER:N	23:B1:87:PRO:HD3	1.95	0.80
31:BA:2030:A:H5"	31:BA:2031:A:OP1	1.82	0.80
33:BD:35:LYS:HA	33:BD:64:ILE:HG22	1.64	0.80
39:BN:42:TRP:HA	39:BN:48:MET:HE1	1.63	0.80
47:BV:62:LEU:HD22	47:BV:98:GLU:HB2	1.61	0.80
2:CB:204:ASN:ND2	2:CB:206:ASP:H	1.78	0.80
23:D1:26:ARG:HB3	23:D1:35:THR:H	1.46	0.80
23:D1:87:PRO:CD	23:D1:88:LYS:H	1.94	0.80
31:DA:1108:U:H2'	31:DA:1109:C:H5'	1.63	0.80
31:DA:2801(A):A:H4'	31:DA:2802:G:H5'	1.61	0.80
34:DE:37:ARG:HD3	34:DE:44:TYR:OH	1.80	0.80
45:DT:129:ARG:NH1	45:DT:131:ALA:HB3	1.97	0.80
47:DV:90:PRO:HG2	47:DV:91:TYR:H	1.46	0.80
1:AA:1063:C:H3'	1:AA:1064:G:H2'	1.64	0.80
1:AA:1256:A:N6	1:AA:1278:U:H1'	1.96	0.80
23:B1:47:GLN:HG2	31:BA:2230:G:H1'	1.63	0.80
31:BA:2801(A):A:O3'	31:BA:2802:G:H3'	1.81	0.80
32:BB:20:C:H2'	32:BB:21:G:C5'	2.07	0.80
49:BX:65:ARG:CZ	49:BX:66:LEU:N	2.43	0.80
50:BY:71:LYS:HB2	50:BY:71:LYS:NZ	1.94	0.80
51:BZ:109:ALA:HB1	51:BZ:145:GLU:OE2	1.81	0.80
23:D1:10:LYS:HD3	23:D1:14:VAL:HA	1.63	0.80
31:DA:2476:A:C6	31:DA:2477:C:C5	2.70	0.80
31:DA:2523:G:H2'	31:DA:2524:G:H5'	1.60	0.80
33:DD:267:SER:HA	33:DD:270:ILE:HG13	1.61	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B6:16:CYS:O	28:B6:17:LYS:HB2	1.81	0.80
41:BP:51:PHE:HB3	41:BP:52:GLU:OE2	1.79	0.80
45:BT:32:TYR:CG	45:BT:81:PRO:HB2	2.15	0.80
49:BX:53:LYS:HE3	49:BX:55:ASN:HD21	1.47	0.80
50:BY:38:ILE:CG2	50:BY:39:VAL:N	2.45	0.80
1:CA:409:G:H2'	1:CA:410:G:H5'	1.61	0.80
23:D1:46:LEU:H	23:D1:46:LEU:HD12	1.45	0.80
29:D7:11:LYS:HE2	31:DA:686:G:H5"	1.61	0.80
31:DA:481:G:OP2	50:DY:47:LYS:HD2	1.80	0.80
31:DA:2334:G:N2	44:DS:18:ILE:HD11	1.95	0.80
33:DD:44:ASN:CB	33:DD:49:ILE:HA	2.11	0.80
51:DZ:53:ILE:CG2	51:DZ:71:VAL:HB	2.12	0.80
31:BA:2681:C:H5	31:BA:2725:A:N6	1.79	0.80
42:BQ:141:GLN:HA	51:BZ:53:ILE:HB	1.64	0.80
1:CA:382:A:H2'	1:CA:383:A:H8	1.46	0.80
5:CE:101:ILE:HD11	5:CE:119:LEU:HD23	1.62	0.80
20:CT:89:ARG:HB2	20:CT:104:LEU:HD11	1.62	0.80
31:DA:2287:A:H2	31:DA:2346:A:N1	1.80	0.80
37:DH:33:LEU:HD21	37:DH:136:ILE:HD12	1.63	0.80
37:DH:85:LYS:HE3	37:DH:133:VAL:HB	1.64	0.80
2:AB:88:ALA:HB2	2:AB:219:VAL:HG13	1.63	0.80
4:AD:180:GLY:HA3	4:AD:182:LYS:HE2	1.64	0.80
44:BS:36:TYR:N	44:BS:36:TYR:HD1	1.78	0.80
1:CA:55:A:C5	1:CA:56:U:C5	2.70	0.80
31:DA:2287:A:H62	31:DA:2344:U:H3	1.28	0.80
31:DA:2801(A):A:O3'	31:DA:2802:G:H3'	1.82	0.80
36:DG:55:LYS:O	36:DG:59:GLU:HB2	1.81	0.80
51:DZ:5:LEU:HG	51:DZ:47:VAL:HG21	1.62	0.80
3:AC:150:LYS:HB3	3:AC:201:TYR:HB2	1.62	0.80
31:BA:2223:G:H2'	31:BA:2224:G:H5'	1.61	0.80
31:BA:2652:C:H2'	31:BA:2653:U:H5'	1.62	0.80
31:DA:1047:G:H21	31:DA:1111:A:H62	1.28	0.80
48:DW:9:TYR:H	48:DW:102:HIS:CD2	2.00	0.80
1:AA:1201:A:H1'	1:AA:1202:G:OP2	1.82	0.80
33:BD:253:GLN:HB3	33:BD:255:LYS:NZ	1.96	0.80
38:BI:72:LEU:HD12	38:BI:138:ILE:HG23	1.63	0.80
45:BT:17:THR:O	45:BT:18:ASP:HB3	1.81	0.80
2:CB:111:ARG:HG2	2:CB:111:ARG:NH1	1.93	0.80
31:DA:146:G:H8	31:DA:146:G:H5'	1.47	0.80
49:DX:57:LEU:HD11	49:DX:77:LYS:HD2	1.64	0.80
1:AA:134:A:H61	16:AP:25:ARG:HH12	1.29	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:475:G:H2'	1:AA:476:G:H8	1.46	0.80
22:B0:43:THR:HG22	31:BA:2331:G:O3'	1.81	0.80
31:BA:1108:U:H2'	31:BA:1109:C:H5'	1.63	0.80
31:BA:2287:A:H2	31:BA:2346:A:N1	1.80	0.80
31:BA:2287:A:H62	31:BA:2344:U:H3	1.26	0.80
41:BP:17:LYS:HG3	41:BP:19:VAL:HG23	1.64	0.80
50:BY:28:LYS:HA	50:BY:39:VAL:H	1.46	0.80
1:CA:382:A:H2'	1:CA:383:A:C8	2.17	0.80
31:DA:1528(A):A:N7	31:DA:1529:G:C8	2.50	0.80
31:DA:2068:U:N3	31:DA:2430:A:H2	1.80	0.80
32:DB:66:A:H61	32:DB:108:U:H2'	1.46	0.80
37:DH:85:LYS:HD2	37:DH:141:VAL:HG13	1.64	0.80
45:DT:17:THR:O	45:DT:18:ASP:HB3	1.82	0.80
51:DZ:109:ALA:HB1	51:DZ:145:GLU:OE2	1.82	0.80
31:BA:1962:C:O2'	31:BA:1964:G:OP2	1.99	0.80
41:BP:58:THR:O	41:BP:61:ARG:NE	2.14	0.80
44:BS:14:VAL:CG1	44:BS:15:ARG:N	2.44	0.80
2:CB:188:ALA:HB1	2:CB:192:SER:HB2	1.63	0.80
3:CC:108:ASN:HB3	3:CC:111:LEU:HB2	1.62	0.80
4:CD:108:LEU:HD23	4:CD:183:GLY:HA3	1.63	0.80
31:BA:389:G:N2	41:BP:71:VAL:HG12	1.97	0.79
31:BA:860:U:H5	31:BA:917:A:N7	1.80	0.79
32:BB:8:U:H5'	32:BB:8:U:H6	1.47	0.79
49:BX:57:LEU:HD11	49:BX:77:LYS:HD2	1.63	0.79
1:CA:1063:C:H3'	1:CA:1064:G:H2'	1.64	0.79
1:CA:1285:A:H1'	1:CA:1286:A:OP2	1.82	0.79
4:CD:62:GLN:HE22	4:CD:65:ARG:HE	1.29	0.79
4:CD:180:GLY:HA3	4:CD:182:LYS:HE2	1.64	0.79
31:DA:542:C:C4	31:DA:543:C:N4	2.50	0.79
33:DD:210:GLY:O	33:DD:211:ARG:HB3	1.81	0.79
37:DH:30:LYS:NZ	37:DH:81:GLU:HA	1.97	0.79
1:AA:445:G:H2'	1:AA:446:G:H8	1.47	0.79
1:AA:678:U:H2'	1:AA:679:C:C6	2.17	0.79
33:BD:77:ALA:HB2	33:BD:97:TYR:CD2	2.17	0.79
35:BF:46:ARG:HH11	35:BF:46:ARG:CG	1.95	0.79
1:CA:84:U:H5	1:CA:88:A:C8	2.00	0.79
15:CO:87:ILE:HG22	15:CO:88:ARG:N	1.98	0.79
27:D5:46:CYS:SG	27:D5:47:PRO:CD	2.69	0.79
31:DA:806:C:OP2	41:DP:39:LYS:HD2	1.82	0.79
31:DA:1971:A:H1'	33:DD:240:ALA:O	1.82	0.79
47:DV:15:GLU:HB3	47:DV:16:PRO:HD2	1.61	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DZ:151:HIS:CB	51:DZ:170:THR:HA	2.04	0.79
1:AA:1003:G:H2'	1:AA:1004:A:H4'	1.62	0.79
8:AH:120:THR:H	8:AH:123:GLU:HB2	1.47	0.79
10:AJ:40:LEU:HB2	10:AJ:41:PRO:HD2	1.62	0.79
38:BI:85:GLU:O	38:BI:123:LEU:HD12	1.82	0.79
41:BP:140:ALA:O	25:D3:1:MET:SD	2.40	0.79
1:CA:1452:C:H5'	1:CA:1456:G:C4	2.18	0.79
23:D1:8:SER:N	23:D1:46:LEU:HD11	1.96	0.79
23:D1:46:LEU:HD12	23:D1:46:LEU:N	1.97	0.79
38:DI:130:TYR:HB3	38:DI:136:VAL:HG13	1.64	0.79
1:AA:84:U:H5	1:AA:88:A:C8	2.00	0.79
12:AL:6:THR:HG23	12:AL:9:GLN:HE21	1.45	0.79
30:B8:30:ARG:O	30:B8:31:HIS:C	2.24	0.79
33:BD:27:THR:HG23	33:BD:28:GLU:N	1.97	0.79
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.17	0.79
13:CM:49:THR:HG22	13:CM:51:ALA:H	1.46	0.79
42:DQ:141:GLN:HA	51:DZ:53:ILE:HB	1.64	0.79
31:BA:102:G:HO2'	31:BA:103:A:P	2.05	0.79
31:BA:2660:A:H5"	31:BA:2661:G:N3	1.98	0.79
33:BD:25:THR:HG22	33:BD:82:ILE:O	1.82	0.79
33:BD:35:LYS:CD	33:BD:104:TYR:CD1	2.66	0.79
38:BI:130:TYR:HB3	38:BI:136:VAL:HG13	1.63	0.79
47:BV:19:LYS:HG2	47:BV:96:ILE:HB	1.64	0.79
22:D0:51:VAL:N	22:D0:62:LEU:HD12	1.98	0.79
32:DB:7:G:C2'	32:DB:8:U:H5"	2.12	0.79
33:DD:35:LYS:HA	33:DD:64:ILE:HG22	1.63	0.79
41:DP:58:THR:O	41:DP:61:ARG:NE	2.15	0.79
49:DX:77:LYS:HG2	49:DX:78:LYS:HG3	1.63	0.79
1:AA:1442(A):G:H8	45:BT:118:ARG:HH11	1.29	0.79
4:AD:108:LEU:HD23	4:AD:183:GLY:HA3	1.63	0.79
15:AO:17:ARG:HH11	15:AO:17:ARG:CG	1.92	0.79
31:BA:676:A:H2	31:BA:802:A:H61	1.27	0.79
41:BP:41:ARG:HA	41:BP:41:ARG:NH2	1.97	0.79
42:BQ:23:GLY:O	42:BQ:100:GLY:HA3	1.82	0.79
31:DA:83:G:H22	31:DA:102:G:HO2'	1.27	0.79
31:DA:1833:U:H2'	31:DA:1834:U:H6	1.47	0.79
32:DB:94:C:H2'	32:DB:95:C:C6	2.16	0.79
39:DN:3:THR:C	39:DN:4:TYR:CG	2.60	0.79
44:DS:36:TYR:N	44:DS:36:TYR:HD1	1.80	0.79
51:DZ:141:VAL:HG23	51:DZ:144:LEU:HD23	1.61	0.79
31:BA:807:U:H2'	31:BA:808:G:O5'	1.83	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:993:G:H5"	47:BV:75:PHE:CZ	2.17	0.79
31:BA:2646:C:OP2	31:BA:2732:G:O2'	2.00	0.79
27:D5:51:TYR:CD2	27:D5:52:TYR:CE2	2.71	0.79
31:DA:482:A:H4'	50:DY:47:LYS:NZ	1.98	0.79
33:DD:172:TYR:CD1	33:DD:186:HIS:HA	2.17	0.79
45:DT:27:THR:O	45:DT:28:VAL:HG23	1.83	0.79
51:DZ:39:VAL:HG21	51:DZ:44:PHE:HB2	1.64	0.79
19:AS:40:ILE:HD13	19:AS:62:ILE:HD11	1.63	0.79
31:BA:751:A:H5'	48:BW:90:ARG:HA	1.65	0.79
31:BA:2292:C:O2'	31:BA:2293:C:H5'	1.81	0.79
45:BT:27:THR:O	45:BT:28:VAL:HG23	1.82	0.79
31:DA:1678:G:H21	31:DA:1989:G:H22	1.29	0.79
31:DA:2469:A:H2	31:DA:2481:G:N2	1.79	0.79
31:DA:2712(A):A:H5"	31:DA:2713:A:OP2	1.83	0.79
42:DQ:141:GLN:HG3	51:DZ:72:ARG:HH11	1.48	0.79
1:AA:600:C:H2'	1:AA:601:C:C6	2.18	0.79
13:AM:49:THR:HG22	13:AM:51:ALA:H	1.47	0.79
19:AS:6:LYS:HG2	19:AS:7:LYS:HD3	1.65	0.79
50:BY:8:LYS:CE	50:BY:72:VAL:HG23	2.12	0.79
30:D8:32:LEU:HB2	30:D8:35:GLN:H	1.48	0.79
31:DA:142:A:H5'	31:DA:142(A):C:OP2	1.83	0.79
33:DD:35:LYS:HG2	33:DD:64:ILE:H	1.46	0.79
1:AA:1432:G:OP1	45:BT:107:ASP:HB2	1.82	0.79
3:AC:108:ASN:HB3	3:AC:111:LEU:HB2	1.63	0.79
22:B0:13:GLY:O	22:B0:14:ARG:HB2	1.81	0.79
23:B1:65:SER:N	23:B1:67:ILE:HD11	1.98	0.79
29:B7:9:ARG:NH1	31:BA:1310:G:OP2	2.16	0.79
33:BD:35:LYS:HZ1	33:BD:65:ILE:HA	1.47	0.79
34:BE:52:LEU:HD12	34:BE:53:PRO:HD3	1.65	0.79
40:BO:104:ARG:CZ	45:BT:33:LYS:HD2	2.12	0.79
45:BT:28:VAL:HG21	45:BT:46:GLU:HG3	1.63	0.79
1:CA:559:A:H5"	1:CA:560:U:H3'	1.64	0.79
1:CA:1201:A:H1'	1:CA:1202:G:OP2	1.82	0.79
31:DA:145:G:C2'	31:DA:146:G:H5"	2.12	0.79
31:DA:2316:C:H2'	31:DA:2317:C:H6	1.48	0.79
33:DD:8:PRO:HB3	33:DD:14:ARG:HB2	1.64	0.79
20:AT:89:ARG:HB2	20:AT:104:LEU:HD11	1.64	0.78
31:BA:2818:G:O2'	31:BA:2819:G:H5'	1.83	0.78
33:BD:35:LYS:HB3	33:BD:63:ARG:HA	1.63	0.78
41:BP:16:ARG:HD3	41:BP:18:ARG:N	1.94	0.78
47:BV:15:GLU:O	47:BV:98:GLU:CD	2.26	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:307:G:N2	31:DA:310:A:H5'	1.98	0.78
31:DA:2652:C:H2'	31:DA:2653:U:H5'	1.62	0.78
34:DE:52:LEU:HD12	34:DE:53:PRO:HD3	1.65	0.78
35:DF:52:LYS:HG3	35:DF:56:GLU:HB3	1.65	0.78
1:AA:389:A:H2'	1:AA:390:C:H5'	1.66	0.78
1:CA:622:A:C8	1:CA:623:C:C6	2.71	0.78
3:CC:47:LEU:HD21	3:CC:68:VAL:HG11	1.63	0.78
11:CK:29:ILE:HB	11:CK:44:SER:CB	2.14	0.78
31:DA:70:G:H21	31:DA:71:A:H62	1.31	0.78
31:DA:1651:G:C2'	31:DA:1652:A:H5"	2.13	0.78
31:DA:1952:A:C5	40:DO:22:ILE:HD11	2.18	0.78
31:DA:2660:A:H5"	31:DA:2661:G:N3	1.97	0.78
2:AB:188:ALA:HB1	2:AB:192:SER:HB2	1.65	0.78
31:BA:1021:A:H62	31:BA:1141:U:H3	1.32	0.78
31:BA:1973:G:H2'	31:BA:1974:C:H6	1.49	0.78
37:BH:32:GLU:O	37:BH:33:LEU:HD23	1.83	0.78
41:BP:56:SER:O	41:BP:58:THR:N	2.15	0.78
42:BQ:140:ALA:HA	51:BZ:99:TYR:CD2	2.18	0.78
8:CH:120:THR:H	8:CH:123:GLU:HB2	1.48	0.78
16:CP:43:LYS:HA	16:CP:48:TRP:HB3	1.64	0.78
17:CQ:67:LYS:HA	17:CQ:70:ARG:HH12	1.47	0.78
31:DA:94:C:H5'	31:DA:94(A):G:OP2	1.83	0.78
31:DA:1786:A:H1'	31:DA:1938:A:N6	1.99	0.78
40:DO:104:ARG:CZ	45:DT:33:LYS:HD2	2.12	0.78
37:BH:85:LYS:HD2	37:BH:141:VAL:HG13	1.66	0.78
50:BY:15:VAL:HG12	50:BY:17:SER:H	1.49	0.78
1:CA:600:C:H2'	1:CA:601:C:C6	2.18	0.78
4:CD:162:LEU:HD13	4:CD:181:MET:HE2	1.65	0.78
30:D8:32:LEU:HD11	30:D8:41:ILE:HD13	1.66	0.78
31:DA:8:A:H2'	31:DA:9:U:C5	2.19	0.78
36:DG:33:ARG:H	36:DG:162:THR:HB	1.48	0.78
1:AA:1285:A:H1'	1:AA:1286:A:OP2	1.82	0.78
4:AD:31:CYS:C	4:AD:33:MET:H	1.89	0.78
15:AO:87:ILE:HG22	15:AO:88:ARG:N	1.99	0.78
23:B1:26:ARG:HB3	23:B1:35:THR:H	1.48	0.78
31:BA:197:A:H8	31:BA:197:A:H5'	1.46	0.78
33:BD:35:LYS:HZ3	33:BD:104:TYR:HD1	1.31	0.78
35:BF:22:ALA:O	35:BF:26:ALA:HB2	1.84	0.78
40:BO:66:LYS:H	40:BO:82:ASN:ND2	1.80	0.78
1:CA:180:U:H2'	1:CA:181:G:H5'	1.64	0.78
31:DA:1448:G:H1'	31:DA:1528:A:H62	1.49	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2646:C:OP2	31:DA:2732:G:O2'	2.01	0.78
34:DE:36:ARG:NH2	34:DE:88:GLY:CA	2.47	0.78
34:DE:73:GLU:HG3	34:DE:74:PRO:HD2	1.65	0.78
41:DP:17:LYS:HG3	41:DP:19:VAL:HG23	1.66	0.78
44:DS:14:VAL:CG1	44:DS:15:ARG:N	2.46	0.78
3:AC:47:LEU:HD21	3:AC:68:VAL:HG11	1.64	0.78
36:BG:33:ARG:H	36:BG:162:THR:HB	1.47	0.78
47:BV:72:VAL:HA	47:BV:88:ARG:HH12	1.49	0.78
49:BX:38:GLU:N	49:BX:38:GLU:OE1	2.17	0.78
51:BZ:11:GLU:CD	51:BZ:11:GLU:H	1.91	0.78
1:CA:67:C:H2'	1:CA:68:G:C8	2.19	0.78
13:CM:84:ILE:HG12	19:CS:66:MET:HE1	1.65	0.78
29:D7:8:ASN:C	29:D7:8:ASN:ND2	2.33	0.78
31:DA:1495:A:N3	31:DA:1496:A:C2	2.52	0.78
35:DF:101:LEU:HD12	35:DF:102:PRO:CD	2.11	0.78
31:BA:145:G:C2'	31:BA:146:G:H5"	2.13	0.78
1:CA:937:A:H1'	1:CA:1379:G:H22	1.48	0.78
2:CB:185:ILE:CG2	2:CB:199:TYR:HB2	2.12	0.78
23:D1:17:SER:O	23:D1:44:PRO:HD2	1.83	0.78
28:D6:46:HIS:HB2	28:D6:47:THR:N	1.99	0.78
31:DA:743:G:C2'	31:DA:744:G:H5'	2.13	0.78
35:DF:67:GLN:HG3	35:DF:67:GLN:O	1.81	0.78
1:AA:1530:G:OP1	1:AA:1530:G:H4'	1.84	0.78
15:AO:33:THR:HG21	15:AO:85:LEU:HD22	1.65	0.78
16:AP:28:ARG:HH11	16:AP:28:ARG:CG	1.96	0.78
41:BP:48:PRO:O	41:BP:49:ARG:C	2.25	0.78
45:BT:28:VAL:CG2	45:BT:46:GLU:HG3	2.14	0.78
1:CA:1256:A:N6	1:CA:1278:U:H1'	1.97	0.78
20:CT:71:THR:HG22	20:CT:72:LEU:N	1.99	0.78
35:DF:2:LYS:HG3	35:DF:25:PRO:HB2	1.66	0.78
35:DF:89:VAL:HG12	35:DF:90:PHE:N	1.96	0.78
41:DP:51:PHE:HB3	41:DP:52:GLU:OE2	1.83	0.78
45:DT:28:VAL:CG2	45:DT:46:GLU:HG3	2.14	0.78
45:DT:33:LYS:HB2	45:DT:41:ARG:O	1.84	0.78
50:DY:8:LYS:CE	50:DY:72:VAL:HG23	2.14	0.78
12:AL:27:LEU:HD11	12:AL:64:TYR:CE1	2.19	0.78
31:BA:1678:G:H21	31:BA:1989:G:H22	1.28	0.78
33:BD:25:THR:CG2	33:BD:82:ILE:H	1.97	0.78
47:BV:5:VAL:HB	47:BV:60:GLU:OE1	1.83	0.78
1:CA:457:C:H2'	1:CA:458:C:H6	1.48	0.78
1:CA:475:G:H2'	1:CA:476:G:H8	1.47	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:20:GLU:HG3	2:CB:191:ASP:HB2	1.66	0.78
2:CB:88:ALA:HB2	2:CB:219:VAL:HG13	1.65	0.78
2:CB:98:LEU:HB2	2:CB:101:MET:HE3	1.64	0.78
16:CP:20:VAL:HG21	16:CP:32:TYR:CB	2.13	0.78
19:CS:6:LYS:HG2	19:CS:7:LYS:HD3	1.64	0.78
4:AD:112:VAL:HG12	4:AD:116:GLN:OE1	1.84	0.78
31:BA:2471:C:H3'	31:BA:2472:G:H5"	1.66	0.78
31:BA:2580:U:H5'	34:BE:131:ALA:HB3	1.66	0.78
51:BZ:5:LEU:HG	51:BZ:47:VAL:HG21	1.65	0.78
4:CD:26:CYS:HG	53:CD:301:ZN:ZN	0.97	0.78
31:DA:996:A:C4'	46:DU:92:ARG:HE	1.96	0.78
41:DP:24:GLY:CA	41:DP:33:ARG:HH21	1.97	0.78
18:AR:53:ARG:HH21	18:AR:60:ALA:N	1.81	0.77
34:BE:7:VAL:HG21	45:BT:1:MET:HE1	1.64	0.77
1:CA:942:G:H21	9:CI:124:GLN:HE22	1.32	0.77
35:DF:185:ASP:HA	35:DF:188:ARG:HD3	1.65	0.77
43:DR:100:LEU:H	43:DR:100:LEU:HD22	1.49	0.77
45:DT:28:VAL:HG21	45:DT:46:GLU:HG3	1.65	0.77
49:DX:53:LYS:HE3	49:DX:55:ASN:HD21	1.48	0.77
1:AA:942:G:H21	9:AI:124:GLN:HE22	1.32	0.77
4:AD:23:GLY:HA3	4:AD:112:VAL:HG22	1.65	0.77
16:AP:43:LYS:HA	16:AP:48:TRP:HB3	1.66	0.77
28:B6:14:THR:O	28:B6:49:HIS:HA	1.84	0.77
31:BA:83:G:H22	31:BA:102:G:HO2'	1.29	0.77
31:BA:1495:A:N3	31:BA:1496:A:C2	2.53	0.77
31:BA:1833:U:H2'	31:BA:1834:U:H6	1.47	0.77
31:BA:2334:G:H21	44:BS:18:ILE:CD1	1.95	0.77
33:BD:244:ARG:HG2	33:BD:245:PRO:HD3	1.65	0.77
39:BN:73:THR:O	39:BN:75:TYR:N	2.17	0.77
42:BQ:42:ILE:HD13	42:BQ:97:VAL:HG21	1.67	0.77
45:BT:129:ARG:NH1	45:BT:131:ALA:HB3	1.99	0.77
4:CD:23:GLY:HA3	4:CD:112:VAL:HG22	1.65	0.77
23:D1:30:VAL:HG12	23:D1:30:VAL:O	1.85	0.77
26:D4:19:GLY:C	26:D4:21:VAL:H	1.92	0.77
31:DA:141:A:H8	31:DA:1408:C:O2'	1.61	0.77
31:DA:870:A:OP1	42:DQ:7:MET:HE2	1.83	0.77
34:DE:117:MET:O	34:DE:118:LYS:HB2	1.84	0.77
42:DQ:82:ARG:O	42:DQ:83:MET:HB2	1.83	0.77
44:DS:42:ASP:C	44:DS:44:LYS:H	1.92	0.77
46:DU:75:ASN:HB2	46:DU:78:THR:OG1	1.85	0.77
27:B5:46:CYS:SG	27:B5:47:PRO:HG2	2.23	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:32:LEU:C	30:B8:34:TRP:N	2.38	0.77
41:BP:24:GLY:CA	41:BP:33:ARG:HH21	1.98	0.77
42:BQ:8:LYS:HG3	42:BQ:9:TYR:N	1.98	0.77
46:BU:83:LEU:HG	46:BU:88:ILE:HG12	1.65	0.77
47:BV:28:GLU:HG3	47:BV:29:PRO:HD3	1.67	0.77
31:DA:330:A:C2	31:DA:1210:A:H2'	2.17	0.77
31:DA:2208:A:H1'	31:DA:2219:G:C5	2.19	0.77
41:DP:24:GLY:HA3	41:DP:33:ARG:HH21	1.48	0.77
44:DS:78:LEU:HD11	44:DS:103:GLU:HB3	1.64	0.77
1:AA:370:C:H2'	1:AA:371:G:C8	2.19	0.77
1:AA:457:C:H2'	1:AA:458:C:H6	1.47	0.77
1:AA:1072:G:H2'	1:AA:1073:U:H6	1.45	0.77
2:AB:185:ILE:CG2	2:AB:199:TYR:HB2	2.11	0.77
30:B8:6:THR:HG22	30:B8:63:PRO:HD3	1.67	0.77
33:BD:25:THR:O	33:BD:27:THR:N	2.17	0.77
33:BD:125:ILE:HG22	33:BD:125:ILE:O	1.85	0.77
46:BU:95:LEU:HD12	47:BV:11:GLN:HG3	1.67	0.77
1:CA:445:G:H2'	1:CA:446:G:H8	1.47	0.77
30:D8:26:LYS:HZ1	30:D8:47:LYS:HD3	1.48	0.77
30:D8:43:GLN:O	30:D8:44:LYS:HD2	1.84	0.77
46:DU:95:LEU:HD12	47:DV:11:GLN:HG3	1.64	0.77
5:AE:71:LEU:O	5:AE:72:GLN:HG3	1.84	0.77
16:AP:20:VAL:HG21	16:AP:32:TYR:CB	2.14	0.77
18:AR:45:SER:HB3	18:AR:51:LEU:HD21	1.67	0.77
31:BA:542:C:C4	31:BA:543:C:N4	2.52	0.77
50:BY:39:VAL:HG12	50:BY:40:GLU:N	1.99	0.77
1:CA:499:A:H4'	1:CA:500:G:OP1	1.84	0.77
1:CA:555:C:H2'	1:CA:556:C:H6	1.48	0.77
7:CG:79:ARG:NE	7:CG:84:ASN:HD21	1.82	0.77
12:CL:27:LEU:HD11	12:CL:64:TYR:CE1	2.19	0.77
27:D5:48:GLU:O	27:D5:50:GLY:N	2.18	0.77
31:DA:1021:A:H62	31:DA:1141:U:H3	1.33	0.77
31:DA:2394:C:C2'	31:DA:2395:C:H5'	2.15	0.77
50:DY:75:ILE:HD12	50:DY:76:CYS:N	1.99	0.77
23:B1:8:SER:N	23:B1:46:LEU:HD11	2.00	0.77
26:B4:19:GLY:C	26:B4:21:VAL:H	1.92	0.77
31:BA:2208:A:H1'	31:BA:2219:G:C5	2.20	0.77
34:BE:36:ARG:NH2	34:BE:88:GLY:CA	2.48	0.77
45:BT:28:VAL:O	45:BT:29:ARG:HD2	1.84	0.77
47:BV:69:LYS:HB2	47:BV:93:GLU:OE2	1.83	0.77
5:CE:51:VAL:HB	5:CE:52:PRO:HD3	1.66	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:63:ARG:HH11	15:CO:87:ILE:HD13	1.50	0.77
30:D8:30:ARG:O	30:D8:31:HIS:C	2.28	0.77
31:DA:142:A:C8	31:DA:1408:C:H1'	2.19	0.77
16:AP:20:VAL:CG2	16:AP:32:TYR:HB2	2.15	0.77
31:BA:786:C:C2'	31:BA:787:U:H5'	2.15	0.77
33:BD:221:VAL:HG22	33:BD:226:MET:HE2	1.65	0.77
35:BF:185:ASP:HA	35:BF:188:ARG:HD3	1.66	0.77
37:BH:85:LYS:HE3	37:BH:133:VAL:HB	1.64	0.77
44:BS:78:LEU:HD11	44:BS:103:GLU:HB3	1.65	0.77
47:BV:25:LEU:H	47:BV:94:LEU:CD1	1.96	0.77
1:CA:1148:U:H2'	1:CA:1149:C:O4'	1.84	0.77
5:CE:102:ALA:HB1	5:CE:106:PRO:HG2	1.66	0.77
31:DA:389:G:N2	41:DP:71:VAL:HG12	1.99	0.77
31:DA:1224:C:O3'	47:DV:88:ARG:HB3	1.84	0.77
31:DA:2762:G:H8	31:DA:2762:G:H5'	1.50	0.77
40:DO:66:LYS:H	40:DO:82:ASN:ND2	1.82	0.77
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.20	0.77
17:AQ:67:LYS:HA	17:AQ:70:ARG:HH12	1.50	0.77
25:B3:40:THR:HG23	25:B3:43:ILE:HG12	1.65	0.77
31:BA:94:C:H5'	31:BA:94(A):G:OP2	1.85	0.77
31:BA:139(A):G:N2	49:BX:44:GLU:OE1	2.18	0.77
31:BA:1778:U:H2'	31:BA:1784:A:N6	1.99	0.77
31:BA:2787:C:C1'	34:BE:61:ARG:HB2	2.13	0.77
33:BD:27:THR:CG2	33:BD:28:GLU:H	1.98	0.77
39:BN:131:GLN:HG2	39:BN:134:ARG:H	1.47	0.77
48:BW:9:TYR:H	48:BW:102:HIS:CD2	2.01	0.77
1:CA:509:A:C2	1:CA:510:A:C2	2.73	0.77
13:CM:3:ARG:HG2	13:CM:9:ILE:HD11	1.67	0.77
19:CS:40:ILE:HD13	19:CS:62:ILE:HD11	1.65	0.77
28:D6:10:LEU:HD12	30:D8:35:GLN:NE2	1.99	0.77
31:DA:314:A:O2'	31:DA:315:G:H5'	1.84	0.77
31:DA:993:G:H5"	47:DV:75:PHE:CZ	2.19	0.77
31:DA:1509:C:H4'	31:DA:1509:C:OP1	1.85	0.77
31:DA:2404:C:H2'	31:DA:2405:G:C5'	2.15	0.77
31:DA:2660:A:H5'	31:DA:2661:G:H21	1.50	0.77
31:DA:2808:U:H5'	31:DA:2891:G:O6	1.84	0.77
42:DQ:60:ARG:HA	51:DZ:179:ASP:N	1.99	0.77
1:AA:180:U:H2'	1:AA:181:G:H5'	1.66	0.77
23:B1:94:LEU:O	23:B1:95:LEU:HG	1.85	0.77
28:B6:10:LEU:HD12	30:B8:35:GLN:NE2	2.00	0.77
31:BA:2808:U:H5'	31:BA:2891:G:O6	1.83	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:11:PRO:O	33:BD:13:ARG:N	2.17	0.77
41:BP:98:GLU:HG3	41:BP:99:LEU:N	2.00	0.77
8:CH:51:VAL:HG11	8:CH:60:ARG:HG3	1.67	0.77
23:D1:22:GLY:HA2	23:D1:38:SER:O	1.85	0.77
24:D2:41:ILE:O	24:D2:42:GLY:C	2.28	0.77
31:DA:786:C:C2'	31:DA:787:U:H5'	2.15	0.77
50:DY:10:GLY:CA	50:DY:27:VAL:HG13	2.13	0.77
22:B0:41:ARG:HD2	22:B0:41:ARG:H	1.50	0.77
29:B7:8:ASN:C	29:B7:8:ASN:ND2	2.37	0.77
31:BA:1509:C:OP1	31:BA:1509:C:H4'	1.84	0.77
51:BZ:27:VAL:HG23	51:BZ:36:LYS:HA	1.65	0.77
1:CA:1442(B):A:N1	45:DT:118:ARG:NH2	2.32	0.77
4:CD:58:LEU:HD22	4:CD:62:GLN:HG2	1.67	0.77
32:DB:7:G:H5'	44:DS:29:PHE:CE1	2.20	0.77
33:DD:25:THR:HG22	33:DD:82:ILE:O	1.84	0.77
33:DD:159:ALA:N	33:DD:161:THR:HG22	2.00	0.77
39:DN:42:TRP:HA	39:DN:48:MET:HE1	1.67	0.77
2:AB:87:ARG:HE	2:AB:233:SER:HB3	1.50	0.76
16:AP:22:THR:HG22	16:AP:32:TYR:HA	1.65	0.76
31:BA:2404:C:H2'	31:BA:2405:G:C5'	2.15	0.76
31:BA:2523:G:C2'	31:BA:2524:G:H5'	2.15	0.76
49:BX:36:LYS:O	49:BX:36:LYS:HD2	1.85	0.76
1:CA:1422:G:O2'	1:CA:1423:G:H5'	1.84	0.76
12:CL:34:ARG:O	12:CL:61:THR:HG23	1.84	0.76
22:D0:41:ARG:H	22:D0:41:ARG:HD2	1.50	0.76
24:D2:14:ARG:O	24:D2:18:PRO:HD3	1.85	0.76
33:DD:30:GLU:HG3	33:DD:63:ARG:NE	1.99	0.76
41:DP:48:PRO:O	41:DP:49:ARG:C	2.27	0.76
42:DQ:23:GLY:O	42:DQ:100:GLY:HA3	1.85	0.76
2:AB:115:LEU:HD13	2:AB:145:LEU:HB3	1.67	0.76
16:AP:39:TYR:CD2	16:AP:73:LEU:HD11	2.20	0.76
30:B8:43:GLN:O	30:B8:44:LYS:HD2	1.83	0.76
31:BA:370:G:H5"	31:BA:423:A:N6	1.99	0.76
31:BA:996:A:C4'	46:BU:92:ARG:HE	1.96	0.76
41:BP:51:PHE:O	41:BP:52:GLU:HB2	1.83	0.76
44:BS:38:GLN:HG2	44:BS:47:THR:HG21	1.66	0.76
1:CA:735:C:H2'	1:CA:736:C:H6	1.49	0.76
1:CA:1442(B):A:OP1	1:CA:1442(B):A:H4'	1.83	0.76
2:CB:167:PRO:HG3	2:CB:188:ALA:HB2	1.68	0.76
29:D7:8:ASN:HD21	29:D7:11:LYS:H	1.32	0.76
29:D7:9:ARG:NH1	31:DA:1310:G:OP2	2.17	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DH:70:THR:HG22	37:DH:74:ASN:ND2	1.99	0.76
41:DP:58:THR:O	41:DP:61:ARG:CZ	2.33	0.76
41:DP:120:ALA:CB	41:DP:138:LEU:HB3	2.14	0.76
43:DR:51:LEU:CD2	43:DR:70:LEU:HD21	2.16	0.76
45:DT:25:GLY:O	45:DT:26:ASP:HB2	1.85	0.76
1:AA:1003:G:H2'	1:AA:1004:A:C4'	2.16	0.76
1:AA:1148:U:H2'	1:AA:1149:C:O4'	1.84	0.76
2:AB:20:GLU:HG3	2:AB:191:ASP:HB2	1.67	0.76
15:AO:63:ARG:HH11	15:AO:87:ILE:HD13	1.48	0.76
23:B1:30:VAL:O	23:B1:30:VAL:HG12	1.86	0.76
29:B7:11:LYS:HE2	31:BA:686:G:H5"	1.66	0.76
31:BA:1771:C:HO2'	31:BA:1786:A:H8	0.79	0.76
46:BU:90:VAL:HG12	46:BU:91:ASP:H	1.48	0.76
2:CB:77:ALA:HB2	2:CB:211:ILE:HD13	1.67	0.76
31:DA:2810:A:H2'	34:DE:61:ARG:NH2	2.01	0.76
1:AA:1236:A:O2'	1:AA:1304:G:H4'	1.85	0.76
17:AQ:6:LEU:HD13	17:AQ:23:VAL:HG11	1.67	0.76
31:BA:2723:C:H5"	43:BR:2:ARG:CD	2.14	0.76
34:BE:201:THR:HG22	34:BE:203:LYS:H	1.49	0.76
4:CD:9:CYS:SG	4:CD:22:LYS:HD2	2.26	0.76
31:DA:2657:A:H2	31:DA:2664:G:H21	1.32	0.76
45:DT:28:VAL:HG12	45:DT:28:VAL:O	1.85	0.76
47:DV:72:VAL:HA	47:DV:88:ARG:HH12	1.49	0.76
51:DZ:11:GLU:CD	51:DZ:11:GLU:H	1.93	0.76
31:BA:2584:U:H2'	31:BA:2585:U:C6	2.20	0.76
38:BI:75:LEU:HD11	38:BI:105:HIS:HE1	1.50	0.76
43:BR:42:LYS:HA	43:BR:45:ARG:HD2	1.67	0.76
45:BT:30:VAL:HG21	45:BT:83:ILE:HG13	1.68	0.76
8:CH:102:ARG:HE	8:CH:102:ARG:H	1.30	0.76
31:DA:1138:G:O2'	39:DN:105:GLY:HA3	1.85	0.76
33:DD:35:LYS:HZ3	33:DD:104:TYR:HB2	1.47	0.76
41:DP:56:SER:O	41:DP:58:THR:N	2.19	0.76
47:DV:69:LYS:HB2	47:DV:93:GLU:OE2	1.84	0.76
1:AA:67:C:H2'	1:AA:68:G:C8	2.21	0.76
1:AA:877:C:H5"	8:AH:88:LYS:HD2	1.66	0.76
7:AG:79:ARG:NE	7:AG:84:ASN:HD21	1.83	0.76
31:BA:2557:G:O2'	31:BA:2558:C:H5'	1.86	0.76
35:BF:9:ILE:HG23	35:BF:13:SER:O	1.85	0.76
50:BY:75:ILE:HD12	50:BY:76:CYS:N	1.99	0.76
1:CA:555:C:H2'	1:CA:556:C:C6	2.20	0.76
2:CB:69:LEU:HB3	2:CB:162:ILE:HG22	1.68	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:180:ALA:HB1	3:CC:182:ILE:HG13	1.66	0.76
5:CE:42:GLY:HA3	5:CE:66:MET:HG2	1.66	0.76
23:D1:12:PRO:HD2	23:D1:62:VAL:HG23	1.67	0.76
35:DF:46:ARG:HH11	35:DF:46:ARG:CG	1.99	0.76
47:DV:28:GLU:HG3	47:DV:29:PRO:HD3	1.66	0.76
24:B2:41:ILE:O	24:B2:42:GLY:C	2.29	0.76
28:B6:16:CYS:C	28:B6:18:ARG:HE	1.94	0.76
44:BS:14:VAL:HG12	44:BS:15:ARG:N	2.00	0.76
1:CA:80:G:H1	1:CA:89:C:H41	1.33	0.76
16:CP:20:VAL:CG2	16:CP:32:TYR:HB2	2.15	0.76
47:DV:19:LYS:CG	47:DV:20:LEU:N	2.47	0.76
11:AK:29:ILE:HB	11:AK:44:SER:CB	2.14	0.76
13:AM:84:ILE:HG12	19:AS:66:MET:HE1	1.65	0.76
31:BA:142:A:C8	31:BA:1408:C:H1'	2.21	0.76
31:BA:1786:A:H2	31:BA:2606:C:H1'	1.51	0.76
31:BA:2273:A:O2'	31:BA:2274:A:H5'	1.86	0.76
33:BD:118:VAL:HG22	33:BD:119:ALA:N	2.01	0.76
33:BD:146:GLU:HB2	33:BD:189:CYS:HB3	1.66	0.76
39:BN:24:GLY:HA2	39:BN:27:ALA:HB3	1.67	0.76
50:BY:7:VAL:HB	50:BY:8:LYS:NZ	2.00	0.76
30:D8:51:ALA:HA	30:D8:54:GLU:OE1	1.86	0.76
31:DA:1141:U:H2'	39:DN:63:THR:HG21	1.67	0.76
31:DA:1885:A:H5'	31:DA:1885:A:H8	1.50	0.76
32:DB:65:C:H41	32:DB:109:C:H2'	1.50	0.76
44:DS:34:HIS:HB3	44:DS:53:SER:CB	2.15	0.76
47:DV:5:VAL:HB	47:DV:60:GLU:OE1	1.85	0.76
50:DY:28:LYS:HB2	50:DY:37:VAL:HB	1.68	0.76
1:AA:913:A:H4'	1:AA:914:A:O5'	1.86	0.76
31:BA:259:G:N2	31:BA:621:A:H8	1.82	0.76
1:CA:977:A:H2'	1:CA:978:A:H5'	1.68	0.76
1:CA:1003:G:H2'	1:CA:1004:A:C4'	2.16	0.76
4:CD:112:VAL:HG12	4:CD:116:GLN:OE1	1.85	0.76
28:D6:12:GLU:HB3	28:D6:23:THR:CA	2.15	0.76
31:DA:996:A:C4'	46:DU:92:ARG:NE	2.49	0.76
31:DA:1786:A:H2	31:DA:2606:C:H1'	1.51	0.76
31:DA:2584:U:H2'	31:DA:2585:U:C6	2.21	0.76
32:DB:15:A:H5'	32:DB:16:G:C8	2.20	0.76
41:DP:16:ARG:HD3	41:DP:18:ARG:N	1.95	0.76
1:AA:394:G:H2'	1:AA:395:C:H6	1.51	0.76
1:AA:633:G:H5'	1:AA:634:C:OP2	1.86	0.76
1:AA:1184:G:H2'	1:AA:1185:G:H8	1.51	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1281:U:H4'	1:AA:1282:C:OP2	1.86	0.76
22:B0:26:TYR:CE2	31:BA:857:C:H1'	2.21	0.76
29:B7:7:PRO:HB2	31:BA:1309:G:H4'	1.67	0.76
31:BA:8:A:H2'	31:BA:9:U:C5	2.21	0.76
35:BF:2:LYS:HG3	35:BF:25:PRO:HB2	1.66	0.76
37:BH:89:ILE:HD11	37:BH:129:THR:HB	1.67	0.76
39:BN:18:ALA:HB1	39:BN:21:LYS:CB	2.14	0.76
50:BY:96:ILE:HG21	50:BY:99:CYS:CB	2.16	0.76
1:CA:1086:U:H2'	1:CA:1087:G:H8	1.51	0.76
1:CA:1117:G:H4'	9:CI:104:ARG:CZ	2.15	0.76
1:CA:1236:A:O2'	1:CA:1304:G:H4'	1.85	0.76
31:DA:2787:C:C1'	34:DE:61:ARG:HB2	2.12	0.76
33:DD:125:ILE:HG22	33:DD:125:ILE:O	1.85	0.76
36:DG:67:LYS:HD2	36:DG:67:LYS:H	1.51	0.76
4:AD:58:LEU:HD22	4:AD:62:GLN:HG2	1.67	0.75
5:AE:42:GLY:HA3	5:AE:66:MET:HG2	1.68	0.75
22:B0:43:THR:H	31:BA:2331:G:H4'	1.51	0.75
31:BA:142:A:H5'	31:BA:142(A):C:OP2	1.85	0.75
31:BA:314:A:O2'	31:BA:315:G:H5'	1.86	0.75
33:BD:34:VAL:HG21	33:BD:103:ARG:HA	1.66	0.75
34:BE:152:LYS:HD3	39:BN:78:TYR:HB2	1.68	0.75
45:BT:30:VAL:HG23	45:BT:30:VAL:O	1.87	0.75
13:CM:25:ILE:HD11	13:CM:66:LEU:HD23	1.68	0.75
31:DA:2273:A:O2'	31:DA:2274:A:H5'	1.86	0.75
33:DD:16:MET:HB2	33:DD:207:GLY:HA3	1.66	0.75
33:DD:25:THR:O	33:DD:27:THR:N	2.19	0.75
39:DN:120:LEU:CD1	39:DN:122:VAL:HG23	2.13	0.75
44:DS:89:ARG:HA	44:DS:89:ARG:NE	2.00	0.75
49:DX:55:ASN:HB2	49:DX:78:LYS:CD	2.15	0.75
5:AE:102:ALA:HB1	5:AE:106:PRO:HG2	1.69	0.75
23:B1:12:PRO:HD2	23:B1:62:VAL:HG23	1.67	0.75
30:B8:52:LYS:N	30:B8:53:PRO:HD2	2.01	0.75
31:BA:1779:U:C5	31:BA:1784:A:N7	2.49	0.75
31:BA:1885:A:H8	31:BA:1885:A:H5'	1.50	0.75
41:BP:62:LEU:H	41:BP:62:LEU:HD13	1.50	0.75
42:BQ:141:GLN:CA	51:BZ:53:ILE:HB	2.16	0.75
47:BV:96:ILE:CG2	47:BV:97:LYS:N	2.48	0.75
4:CD:189:PRO:HB2	4:CD:194:LEU:HD21	1.67	0.75
30:D8:61:LEU:HD13	31:DA:593:G:H4'	1.67	0.75
31:DA:1403:C:C5'	31:DA:1471:A:H1'	2.16	0.75
31:DA:1779:U:C5	31:DA:1784:A:N7	2.47	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2243:U:O2'	31:DA:2244:U:H5'	1.85	0.75
37:DH:86:GLU:HB3	37:DH:132:ARG:HB3	1.67	0.75
39:DN:3:THR:HG22	39:DN:4:TYR:N	1.99	0.75
40:DO:43:VAL:HG23	40:DO:56:ASP:O	1.86	0.75
50:DY:7:VAL:HB	50:DY:8:LYS:NZ	2.01	0.75
1:AA:193:C:H2'	1:AA:194:C:H6	1.52	0.75
1:AA:1505:G:H4'	1:AA:1506:U:H5"	1.67	0.75
30:B8:61:LEU:HD13	31:BA:593:G:H4'	1.67	0.75
30:B8:61:LEU:HD22	31:BA:593:G:O3'	1.87	0.75
31:BA:814:C:C5	41:BP:27:HIS:NE2	2.53	0.75
31:BA:1280:G:C2'	31:BA:1281:G:H5"	2.16	0.75
31:BA:1448:G:H1'	31:BA:1528:A:H62	1.51	0.75
31:BA:2810:A:H2'	34:BE:61:ARG:NH2	2.01	0.75
32:BB:21:G:HO2'	32:BB:22:U:H6	1.33	0.75
16:CP:22:THR:HG22	16:CP:32:TYR:HA	1.68	0.75
18:CR:53:ARG:HH21	18:CR:60:ALA:N	1.84	0.75
28:D6:39:TYR:O	28:D6:49:HIS:HE1	1.68	0.75
39:DN:82:LEU:H	39:DN:82:LEU:HD12	1.52	0.75
51:DZ:27:VAL:HG23	51:DZ:36:LYS:HA	1.65	0.75
51:DZ:102:LEU:HD21	51:DZ:124:ILE:HG23	1.66	0.75
2:AB:22:LYS:HZ3	2:AB:22:LYS:HA	1.51	0.75
24:B2:26:ARG:HA	24:B2:29:LYS:HE3	1.68	0.75
31:BA:1722:A:C6	31:BA:1741:A:N1	2.55	0.75
43:BR:87:TYR:O	43:BR:89:ASP:N	2.20	0.75
44:BS:89:ARG:HA	44:BS:89:ARG:NE	2.02	0.75
23:D1:27:GLU:OE2	23:D1:32:LYS:HB2	1.85	0.75
31:DA:307:G:H22	31:DA:310:A:H5'	1.49	0.75
31:DA:2394:C:H2'	31:DA:2395:C:H5'	1.68	0.75
33:DD:126:GLN:O	33:DD:193:VAL:HG11	1.86	0.75
47:DV:65:GLY:O	47:DV:66:ARG:HB3	1.87	0.75
51:DZ:61:LEU:HB2	51:DZ:65:GLN:HB2	1.68	0.75
1:AA:390:C:O3'	16:AP:28:ARG:NH2	2.20	0.75
1:AA:1086:U:H2'	1:AA:1087:G:H8	1.52	0.75
13:AM:25:ILE:HD11	13:AM:66:LEU:HD23	1.68	0.75
31:BA:518:G:H4'	48:BW:18:ARG:NH1	2.01	0.75
31:BA:2334:G:N2	44:BS:18:ILE:HD11	2.01	0.75
31:BA:2404:C:H2'	31:BA:2405:G:H5'	1.67	0.75
35:BF:67:GLN:O	35:BF:67:GLN:HG3	1.86	0.75
1:CA:170:U:O2'	1:CA:171:A:H5'	1.87	0.75
23:D1:87:PRO:HB2	23:D1:91:LYS:NZ	2.02	0.75
33:DD:35:LYS:CD	33:DD:63:ARG:HB3	2.15	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DF:3:GLU:O	35:DF:19:GLU:HA	1.86	0.75
35:DF:9:ILE:HG23	35:DF:13:SER:O	1.87	0.75
44:DS:28:VAL:HB	44:DS:89:ARG:CB	2.14	0.75
1:AA:862:C:H2'	1:AA:863:U:H5'	1.68	0.75
30:B8:62:LEU:HD13	31:BA:242:G:H5"	1.68	0.75
31:BA:2723:C:H5"	43:BR:2:ARG:HD3	1.69	0.75
33:BD:108:PRO:HA	33:BD:196:VAL:O	1.87	0.75
41:BP:95:VAL:HG22	41:BP:125:VAL:HB	1.69	0.75
44:BS:42:ASP:C	44:BS:44:LYS:H	1.93	0.75
31:DA:626:U:C2	41:DP:105:LEU:HG	2.22	0.75
31:DA:1826:G:C4'	33:DD:242:ARG:HH21	1.95	0.75
32:DB:87:G:H3'	32:DB:88:C:H5"	1.68	0.75
33:DD:132:PRO:HG3	33:DD:190:TYR:CE1	2.21	0.75
37:DH:43:VAL:O	37:DH:43:VAL:HG23	1.84	0.75
41:DP:33:ARG:O	41:DP:35:HIS:N	2.19	0.75
41:DP:62:LEU:HD22	41:DP:62:LEU:H	1.51	0.75
42:DQ:42:ILE:HD13	42:DQ:97:VAL:HG21	1.68	0.75
1:AA:377:G:O2'	1:AA:378:G:H5'	1.86	0.75
4:AD:162:LEU:HD13	4:AD:181:MET:HE2	1.67	0.75
6:AF:67:MET:HB2	6:AF:68:PRO:HD2	1.69	0.75
13:AM:3:ARG:HG2	13:AM:9:ILE:HD11	1.67	0.75
14:AN:29:ARG:HD3	14:AN:40:CYS:SG	2.27	0.75
22:B0:51:VAL:N	22:B0:62:LEU:HD12	2.02	0.75
31:BA:1169:G:H1	31:BA:1180:C:H42	1.34	0.75
31:BA:1529:G:N2	31:BA:1530:C:H5"	2.01	0.75
34:BE:77:ILE:HG23	34:BE:78:LEU:O	1.86	0.75
34:BE:120:TRP:O	34:BE:121:ASN:HB2	1.86	0.75
47:BV:19:LYS:CG	47:BV:20:LEU:O	2.34	0.75
50:BY:27:VAL:HB	50:BY:29:GLU:OE1	1.85	0.75
1:CA:389:A:H2'	1:CA:390:C:H5'	1.69	0.75
1:CA:428:G:H4'	1:CA:429:U:O5'	1.86	0.75
30:D8:32:LEU:HG	30:D8:34:TRP:CE3	2.21	0.75
31:DA:2471:C:H3'	31:DA:2472:G:H5"	1.69	0.75
32:DB:8:U:H5'	32:DB:8:U:H6	1.49	0.75
42:DQ:140:ALA:HA	51:DZ:99:TYR:CD2	2.22	0.75
50:DY:28:LYS:HA	50:DY:38:ILE:HG22	1.69	0.75
1:AA:1117:G:H4'	9:AI:104:ARG:CZ	2.17	0.75
47:BV:43:GLU:HA	47:BV:48:GLY:CA	2.17	0.75
1:CA:877:C:H5"	8:CH:88:LYS:HD2	1.69	0.75
31:DA:747:U:O2	31:DA:2014:A:H1'	1.87	0.75
31:DA:991:C:H5'	31:DA:991:C:H6	1.51	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1278:A:O2'	43:DR:34:ILE:HD11	1.87	0.75
33:DD:34:VAL:HG21	33:DD:103:ARG:HA	1.68	0.75
38:DI:82:ARG:HG2	38:DI:89:TYR:CD2	2.22	0.75
1:AA:663:A:O2'	1:AA:664:G:H5'	1.87	0.75
1:AA:1321:C:C5'	1:AA:1322:C:H5"	2.17	0.75
31:BA:9:U:C4	31:BA:2629:A:N6	2.54	0.75
31:BA:1963:U:H2'	31:BA:1963:U:O2	1.86	0.75
41:BP:38:GLN:HG3	41:BP:39:LYS:H	1.52	0.75
42:BQ:29:PHE:O	42:BQ:30:GLY:O	2.03	0.75
45:BT:33:LYS:HB2	45:BT:41:ARG:O	1.87	0.75
1:CA:963:G:H21	10:CJ:55:LYS:HD3	1.51	0.75
1:CA:1530:G:H4'	1:CA:1530:G:OP1	1.87	0.75
2:CB:115:LEU:HD13	2:CB:145:LEU:HB3	1.69	0.75
31:DA:1766:U:H2'	31:DA:1767:C:H6	1.52	0.75
31:DA:2023:G:H5'	31:DA:2617:C:H4'	1.69	0.75
33:DD:27:THR:HG23	33:DD:28:GLU:N	2.01	0.75
47:DV:43:GLU:HA	47:DV:48:GLY:CA	2.17	0.75
1:AA:80:G:H1	1:AA:89:C:H41	1.35	0.74
2:AB:187:LEU:HD11	2:AB:204:ASN:O	1.87	0.74
31:BA:351:G:H5"	31:BA:352:G:OP2	1.87	0.74
31:BA:1528(A):A:N7	31:BA:1529:G:H8	1.85	0.74
31:BA:1607:C:H4'	31:BA:1608:A:O5'	1.86	0.74
31:BA:2680:C:H5'	34:BE:189:PRO:HA	1.69	0.74
31:BA:2688:U:H5	31:BA:2720:U:OP2	1.70	0.74
6:CF:63:TYR:N	6:CF:63:TYR:CD2	2.53	0.74
31:DA:259:G:N2	31:DA:621:A:H8	1.83	0.74
34:DE:120:TRP:O	34:DE:121:ASN:HB2	1.87	0.74
35:DF:160:ASN:HD21	35:DF:162:LEU:HB2	1.51	0.74
40:DO:7:TYR:HE1	40:DO:20:MET:HE3	1.51	0.74
45:DT:91:ARG:HA	45:DT:117:ASP:H	1.51	0.74
46:DU:90:VAL:HG12	46:DU:91:ASP:H	1.51	0.74
47:DV:69:LYS:CG	47:DV:70:ILE:H	1.97	0.74
1:AA:937:A:H1'	1:AA:1379:G:H22	1.51	0.74
26:B4:1:MET:H3	36:BG:67:LYS:HZ2	1.34	0.74
31:BA:806:C:OP2	41:BP:39:LYS:HD2	1.87	0.74
46:BU:75:ASN:HB2	46:BU:78:THR:OG1	1.87	0.74
1:CA:804:U:H5"	1:CA:805:C:OP2	1.86	0.74
11:CK:48:ILE:HG21	11:CK:63:LEU:HD13	1.69	0.74
31:DA:1280:G:C2'	31:DA:1281:G:H5"	2.18	0.74
31:DA:2523:G:C2'	31:DA:2524:G:H5'	2.16	0.74
33:DD:255:LYS:NZ	33:DD:255:LYS:H	1.85	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DH:89:ILE:HD11	37:DH:129:THR:HB	1.69	0.74
38:DI:133:HIS:CB	38:DI:134:PRO:HD2	2.16	0.74
47:DV:69:LYS:HG3	47:DV:70:ILE:N	2.01	0.74
37:BH:86:GLU:HB3	37:BH:132:ARG:HB3	1.69	0.74
1:CA:1505:G:H4'	1:CA:1506:U:H5"	1.69	0.74
31:DA:811:U:H3'	41:DP:25:SER:O	1.87	0.74
31:DA:1884:A:H2'	31:DA:1885:A:C5'	2.11	0.74
32:DB:28:C:H2'	32:DB:29:A:C8	2.22	0.74
50:DY:75:ILE:HG12	50:DY:79:CYS:CA	2.18	0.74
1:AA:1422:G:O2'	1:AA:1423:G:H5'	1.87	0.74
2:AB:20:GLU:O	2:AB:40:HIS:HB2	1.87	0.74
2:AB:69:LEU:HB3	2:AB:162:ILE:HG22	1.68	0.74
4:AD:189:PRO:HB2	4:AD:194:LEU:HD21	1.68	0.74
13:AM:19:LEU:HB3	13:AM:25:ILE:HG21	1.67	0.74
31:BA:17:G:H4'	46:BU:25:TRP:CH2	2.22	0.74
31:BA:307:G:N2	31:BA:310:A:H5'	2.02	0.74
31:BA:1713:U:O2'	31:BA:1714:G:H5'	1.87	0.74
32:BB:87:G:H3'	32:BB:88:C:H5"	1.67	0.74
50:BY:8:LYS:HE2	50:BY:72:VAL:HG23	1.68	0.74
1:CA:1184:G:H2'	1:CA:1185:G:H8	1.51	0.74
16:CP:39:TYR:CD2	16:CP:73:LEU:HD11	2.23	0.74
22:D0:20:ARG:NH1	31:DA:2357:U:OP1	2.20	0.74
31:DA:993:G:H1'	47:DV:91:TYR:CD1	2.21	0.74
31:DA:1652:A:H8	31:DA:1652:A:H5'	1.52	0.74
33:DD:25:THR:CG2	33:DD:82:ILE:H	2.00	0.74
33:DD:35:LYS:CD	33:DD:104:TYR:CD1	2.70	0.74
39:DN:39:ARG:HG3	39:DN:41:ASP:H	1.49	0.74
1:AA:1216:G:OP1	14:AN:2:ALA:HA	1.86	0.74
30:B8:32:LEU:HD11	30:B8:41:ILE:HD13	1.68	0.74
47:BV:83:ARG:CG	47:BV:83:ARG:HH11	2.01	0.74
1:CA:35:G:H2'	1:CA:36:C:C6	2.21	0.74
1:CA:1066:C:H5'	1:CA:1067:A:OP2	1.87	0.74
1:CA:1216:G:OP1	14:CN:2:ALA:HA	1.86	0.74
31:DA:2580:U:H5'	34:DE:131:ALA:HB3	1.69	0.74
44:DS:38:GLN:HG2	44:DS:47:THR:HG21	1.66	0.74
28:B6:12:GLU:HB3	28:B6:23:THR:CA	2.17	0.74
31:BA:1278:A:O2'	43:BR:34:ILE:HD11	1.87	0.74
31:BA:2657:A:H2	31:BA:2664:G:H21	1.34	0.74
36:BG:127:GLY:CA	36:BG:166:ASP:HB3	2.18	0.74
37:BH:70:THR:HG22	37:BH:74:ASN:ND2	2.03	0.74
41:BP:26:GLY:HA2	41:BP:30:THR:CG2	2.17	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BR:55:ALA:HB2	43:BR:79:LEU:HD13	1.69	0.74
46:BU:88:ILE:C	46:BU:90:VAL:N	2.44	0.74
47:BV:79:VAL:HG23	47:BV:82:ARG:HD2	1.68	0.74
1:CA:678:U:H2'	1:CA:679:C:H6	1.51	0.74
1:CA:862:C:C2'	1:CA:863:U:H5'	2.18	0.74
1:CA:1342:C:H4'	9:CI:125:TYR:HB3	1.70	0.74
31:DA:807:U:H2'	31:DA:808:G:O5'	1.88	0.74
31:DA:1899:G:H21	31:DA:1902:C:H5	1.35	0.74
33:DD:39:LYS:HB2	33:DD:62:TYR:HB2	1.70	0.74
34:DE:1:MET:HB3	34:DE:84:PHE:HB2	1.69	0.74
1:AA:735:C:H2'	1:AA:736:C:H6	1.53	0.74
3:AC:180:ALA:HB1	3:AC:182:ILE:HG13	1.69	0.74
24:B2:37:PHE:CE2	24:B2:40:SER:HA	2.20	0.74
31:BA:287:C:H42	31:BA:354:G:H1	1.33	0.74
31:BA:1826:G:H4'	33:BD:242:ARG:NH2	2.02	0.74
41:BP:58:THR:O	41:BP:61:ARG:CZ	2.35	0.74
45:BT:25:GLY:O	45:BT:26:ASP:HB2	1.87	0.74
1:CA:913:A:H4'	1:CA:914:A:O5'	1.87	0.74
18:CR:45:SER:HB3	18:CR:51:LEU:HD21	1.68	0.74
30:D8:6:THR:HG22	30:D8:63:PRO:HD3	1.68	0.74
31:DA:1278:A:OP1	43:DR:36:THR:CG2	2.36	0.74
33:DD:108:PRO:HA	33:DD:196:VAL:O	1.88	0.74
33:DD:270:ILE:HD12	33:DD:270:ILE:O	1.87	0.74
31:BA:1497:U:C5'	31:BA:1498:C:H5	2.00	0.74
39:BN:56:ASN:H	39:BN:125:GLY:CA	2.00	0.74
46:BU:88:ILE:H	46:BU:88:ILE:HD12	1.53	0.74
2:CB:87:ARG:HE	2:CB:233:SER:HB3	1.52	0.74
2:CB:187:LEU:HD11	2:CB:204:ASN:O	1.86	0.74
24:D2:49:LYS:O	24:D2:52:ASP:HB3	1.87	0.74
25:D3:19:GLN:HE22	25:D3:52:HIS:HE1	1.33	0.74
31:DA:543:C:C6	31:DA:547:A:N7	2.56	0.74
31:DA:1028:A:N6	31:DA:1125:G:H2'	2.03	0.74
31:DA:2790:A:H2'	31:DA:2791:C:H5"	1.68	0.74
39:DN:56:ASN:H	39:DN:125:GLY:CA	2.01	0.74
41:DP:112:LEU:O	41:DP:128:HIS:HB2	1.87	0.74
47:DV:53:GLU:O	47:DV:55:ALA:N	2.21	0.74
23:B1:87:PRO:HB2	23:B1:91:LYS:NZ	2.03	0.74
28:B6:46:HIS:HB2	28:B6:47:THR:N	2.01	0.74
30:B8:32:LEU:HG	30:B8:34:TRP:HE3	1.50	0.74
31:BA:543:C:C6	31:BA:547:A:N7	2.56	0.74
31:BA:2261:C:O2'	31:BA:2262:U:H5'	1.87	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:35:LYS:HD3	33:BD:63:ARG:CA	2.17	0.74
47:BV:90:PRO:CG	47:BV:91:TYR:H	2.00	0.74
22:D0:13:GLY:O	22:D0:14:ARG:HB2	1.87	0.74
31:DA:287:C:H42	31:DA:354:G:H1	1.35	0.74
34:DE:1:MET:HB2	34:DE:83:ASP:O	1.87	0.74
34:DE:117:MET:O	34:DE:117:MET:HG2	1.87	0.74
34:DE:167:VAL:HG22	34:DE:170:LEU:HD11	1.70	0.74
41:DP:51:PHE:HB3	41:DP:52:GLU:HG2	1.69	0.74
50:DY:96:ILE:HG21	50:DY:99:CYS:SG	2.27	0.74
50:DY:97:ARG:O	50:DY:97:ARG:HG3	1.85	0.74
31:BA:1019:U:O2'	31:BA:1021:A:H2	1.67	0.74
33:BD:30:GLU:HG3	33:BD:63:ARG:CZ	2.18	0.74
33:BD:144:ALA:HB3	33:BD:192:THR:HG23	1.69	0.74
35:BF:21:ALA:HB3	35:BF:23:ASP:OD2	1.88	0.74
35:BF:32:LEU:HD11	35:BF:105:VAL:HG13	1.70	0.74
36:BG:16:ARG:NH1	36:BG:31:VAL:HG21	2.03	0.74
45:BT:29:ARG:CB	45:BT:85:LYS:HA	2.18	0.74
45:BT:51:ARG:HG3	45:BT:98:LYS:HD2	1.70	0.74
1:CA:1281:U:H4'	1:CA:1282:C:OP2	1.86	0.74
1:CA:1321:C:C5'	1:CA:1322:C:H5"	2.17	0.74
2:CB:20:GLU:O	2:CB:40:HIS:HB2	1.87	0.74
4:CD:8:VAL:HG12	4:CD:21:LEU:CD1	2.17	0.74
31:DA:1607:C:H4'	31:DA:1608:A:O5'	1.88	0.74
31:DA:2068:U:N3	31:DA:2430:A:C2	2.54	0.74
33:DD:25:THR:HG23	33:DD:25:THR:O	1.86	0.74
36:DG:16:ARG:NH1	36:DG:31:VAL:HG21	2.02	0.74
44:DS:92:TYR:CD1	44:DS:93:LYS:N	2.56	0.74
47:DV:47:VAL:HG13	47:DV:48:GLY:N	2.03	0.74
1:AA:862:C:C2'	1:AA:863:U:H5'	2.17	0.73
1:AA:1066:C:H5'	1:AA:1067:A:OP2	1.86	0.73
1:AA:1442(B):A:H4'	1:AA:1442(B):A:OP1	1.85	0.73
10:AJ:34:VAL:HG22	10:AJ:74:ILE:HG22	1.70	0.73
15:AO:62:GLN:HA	15:AO:65:ARG:HH11	1.53	0.73
31:BA:27:G:N2	31:BA:512:G:H1'	2.03	0.73
31:BA:796:C:H2'	31:BA:797:C:C6	2.23	0.73
31:BA:1762:A:H8	31:BA:1762:A:O5'	1.70	0.73
32:BB:65:C:H41	32:BB:109:C:H2'	1.53	0.73
38:BI:133:HIS:CB	38:BI:134:PRO:HD2	2.17	0.73
51:BZ:53:ILE:HG22	51:BZ:71:VAL:HB	1.69	0.73
23:D1:65:SER:N	23:D1:67:ILE:HD11	2.03	0.73
31:DA:17:G:H4'	46:DU:25:TRP:CH2	2.23	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:247:G:H4'	31:DA:386:G:C5	2.23	0.73
31:DA:323:G:H5'	35:DF:169:ASN:HD21	1.50	0.73
31:DA:1963:U:O2	31:DA:1963:U:H2'	1.87	0.73
37:DH:158:HIS:CE1	37:DH:169:VAL:C	2.66	0.73
38:DI:52:ARG:HG3	38:DI:53:ALA:H	1.52	0.73
8:AH:86:ILE:HG22	8:AH:87:SER:N	2.00	0.73
31:BA:626:U:C2	41:BP:105:LEU:HG	2.23	0.73
31:BA:2660:A:H5'	31:BA:2661:G:H21	1.52	0.73
31:BA:2790:A:H2'	31:BA:2791:C:H5"	1.69	0.73
41:BP:47:ASP:HB3	41:BP:48:PRO:O	1.88	0.73
47:BV:69:LYS:HG3	47:BV:70:ILE:N	2.02	0.73
1:CA:559:A:C5'	1:CA:560:U:H3'	2.18	0.73
13:CM:19:LEU:HB3	13:CM:25:ILE:HG21	1.68	0.73
31:DA:588:U:H2'	31:DA:589:C:C6	2.23	0.73
31:DA:1430:C:H2'	31:DA:1431:U:C6	2.23	0.73
31:DA:1722:A:C6	31:DA:1741:A:N1	2.56	0.73
30:B8:46:ARG:HH22	41:BP:65:ARG:HH22	1.36	0.73
31:BA:1316:U:O2'	31:BA:1317:A:H5'	1.87	0.73
31:BA:1884:A:H2'	31:BA:1885:A:C5'	2.10	0.73
33:BD:260:ARG:HH22	33:BD:266:SER:HB2	1.53	0.73
34:BE:38:THR:HG22	34:BE:40:GLU:N	2.00	0.73
34:BE:73:GLU:HG3	34:BE:74:PRO:HD2	1.69	0.73
49:BX:33:LYS:C	49:BX:35:THR:N	2.44	0.73
50:BY:28:LYS:HB2	50:BY:37:VAL:HB	1.69	0.73
1:CA:370:C:H2'	1:CA:371:G:C8	2.24	0.73
2:CB:55:PHE:HE1	2:CB:218:ALA:HA	1.54	0.73
3:CC:132:ARG:O	3:CC:136:GLN:HB2	1.87	0.73
5:CE:31:LEU:HD11	5:CE:129:ILE:HA	1.69	0.73
5:CE:101:ILE:HG12	5:CE:101:ILE:O	1.89	0.73
28:D6:10:LEU:CD1	30:D8:35:GLN:HE22	1.98	0.73
31:DA:348:G:C2'	31:DA:349:G:H5"	2.18	0.73
31:DA:1281:G:H5'	31:DA:1281:G:C8	2.22	0.73
31:DA:1316:U:O2'	31:DA:1317:A:H5'	1.87	0.73
31:DA:2517:C:C6	31:DA:2542:A:C2	2.76	0.73
34:DE:38:THR:HG22	34:DE:40:GLU:N	2.02	0.73
44:DS:14:VAL:HG12	44:DS:15:ARG:N	2.01	0.73
25:B3:19:GLN:HE22	25:B3:52:HIS:HE1	1.36	0.73
30:B8:13:ARG:NH2	31:BA:250:G:OP2	2.21	0.73
32:BB:37:C:C5	32:BB:38:C:C5	2.77	0.73
33:BD:172:TYR:CD1	33:BD:186:HIS:HA	2.24	0.73
37:BH:153:LYS:HD3	37:BH:153:LYS:H	1.52	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:35:VAL:HA	40:BO:62:VAL:HG12	1.70	0.73
45:BT:56:GLY:O	45:BT:59:THR:HG23	1.88	0.73
46:BU:88:ILE:HD12	46:BU:88:ILE:N	2.03	0.73
1:CA:390:C:O3'	16:CP:28:ARG:NH2	2.21	0.73
7:CG:15:ASP:HB3	7:CG:19:GLY:H	1.53	0.73
23:D1:94:LEU:O	23:D1:95:LEU:HG	1.88	0.73
30:D8:50:LEU:HD12	30:D8:51:ALA:N	2.03	0.73
31:DA:528:A:C2	31:DA:2043:C:H4'	2.23	0.73
31:DA:910:A:H62	42:DQ:12:GLN:HA	1.53	0.73
31:DA:2680:C:H5'	34:DE:189:PRO:HA	1.70	0.73
42:DQ:141:GLN:CA	51:DZ:53:ILE:HB	2.17	0.73
1:AA:977:A:H2'	1:AA:978:A:H5'	1.68	0.73
1:AA:1256:A:H5'	1:AA:1257:U:OP1	1.88	0.73
23:B1:67:ILE:N	23:B1:68:PRO:HD2	2.02	0.73
28:B6:10:LEU:CD1	30:B8:35:GLN:HE22	2.00	0.73
30:B8:50:LEU:HD12	30:B8:51:ALA:N	2.04	0.73
31:BA:1529:G:H21	31:BA:1530:C:C5'	2.01	0.73
31:BA:2394:C:C2'	31:BA:2395:C:H5'	2.17	0.73
39:BN:131:GLN:NE2	39:BN:134:ARG:HA	2.03	0.73
45:BT:28:VAL:O	45:BT:28:VAL:HG12	1.88	0.73
31:DA:2723:C:H5"	43:DR:2:ARG:CD	2.18	0.73
33:DD:35:LYS:HZ3	33:DD:104:TYR:HD1	1.37	0.73
33:DD:144:ALA:HB3	33:DD:192:THR:HG23	1.69	0.73
50:DY:15:VAL:HG12	50:DY:17:SER:H	1.51	0.73
1:AA:38:G:C2	1:AA:397:A:C2	2.75	0.73
1:AA:170:U:O2'	1:AA:171:A:H5'	1.89	0.73
1:AA:386:C:C2'	1:AA:387:U:H5'	2.18	0.73
1:AA:976:G:H5'	1:AA:1358:U:O2'	1.89	0.73
31:BA:1497:U:H5'	31:BA:1498:C:C5	2.19	0.73
31:BA:1766:U:H2'	31:BA:1767:C:H6	1.54	0.73
31:BA:1973:G:H2'	31:BA:1974:C:C6	2.23	0.73
35:BF:101:LEU:HD12	35:BF:102:PRO:CD	2.14	0.73
36:BG:76:SER:CB	36:BG:83:ARG:HB3	2.16	0.73
39:BN:39:ARG:HG3	39:BN:41:ASP:H	1.54	0.73
49:BX:33:LYS:O	49:BX:35:THR:N	2.21	0.73
1:CA:189(B):C:H42	1:CA:189(I):G:H1	1.37	0.73
1:CA:240:C:H2'	1:CA:241:C:C6	2.22	0.73
4:CD:62:GLN:HA	4:CD:62:GLN:NE2	2.04	0.73
12:CL:24:VAL:HG13	12:CL:98:TYR:CE2	2.24	0.73
31:DA:1169:G:H1	31:DA:1180:C:H42	1.34	0.73
45:DT:56:GLY:O	45:DT:59:THR:HG23	1.89	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DT:64:ARG:HB2	45:DT:73:GLU:HG2	1.70	0.73
46:DU:55:ARG:HA	46:DU:58:ARG:HD2	1.71	0.73
1:AA:819:A:H4'	1:AA:820:U:OP2	1.88	0.73
27:B5:46:CYS:SG	27:B5:47:PRO:CG	2.77	0.73
31:BA:870:A:OP1	42:BQ:7:MET:HE2	1.89	0.73
31:BA:996:A:C4'	46:BU:92:ARG:NE	2.51	0.73
31:BA:1204:A:C2	31:BA:1241:A:N1	2.57	0.73
41:BP:140:ALA:HB1	25:D3:38:GLU:CG	2.18	0.73
43:BR:60:LEU:O	43:BR:64:ARG:HG3	1.88	0.73
46:BU:27:LEU:HD23	46:BU:27:LEU:H	1.53	0.73
1:CA:22:G:H2'	1:CA:23:C:C6	2.24	0.73
6:CF:76:ALA:O	6:CF:80:ARG:HG3	1.88	0.73
31:DA:83:G:H1	31:DA:102:G:H2'	1.53	0.73
31:DA:107:C:H2'	31:DA:108:U:H6	1.54	0.73
31:DA:430:G:H5"	31:DA:431:U:OP2	1.89	0.73
31:DA:1497:U:H5'	31:DA:1498:C:C5	2.17	0.73
31:DA:2475:C:C5'	31:DA:2476:A:OP2	2.36	0.73
33:DD:224:ALA:HB2	33:DD:233:HIS:HB3	1.70	0.73
36:DG:76:SER:CB	36:DG:83:ARG:HB3	2.17	0.73
39:DN:131:GLN:HG2	39:DN:134:ARG:H	1.51	0.73
45:DT:28:VAL:O	45:DT:29:ARG:HD2	1.88	0.73
1:AA:353:A:H5'	1:AA:353:A:H8	1.54	0.73
1:AA:678:U:H2'	1:AA:679:C:H6	1.52	0.73
16:AP:4:ILE:HB	16:AP:66:PRO:HB3	1.70	0.73
20:AT:71:THR:HG22	20:AT:72:LEU:N	2.03	0.73
33:BD:27:THR:CG2	33:BD:28:GLU:N	2.51	0.73
34:BE:1:MET:HB3	34:BE:84:PHE:HB2	1.69	0.73
35:BF:3:GLU:O	35:BF:19:GLU:HA	1.89	0.73
40:BO:65:THR:HG23	40:BO:69:ILE:HD11	1.71	0.73
44:BS:67:ARG:H	44:BS:69:VAL:HG12	1.53	0.73
10:CJ:65:LEU:HD13	14:CN:56:VAL:HG22	1.69	0.73
23:D1:10:LYS:HB2	23:D1:14:VAL:N	2.03	0.73
31:DA:370:G:H5"	31:DA:423:A:N6	2.03	0.73
31:DA:814:C:C5	41:DP:27:HIS:NE2	2.57	0.73
31:DA:1882:C:H2'	31:DA:1882:C:O2	1.89	0.73
31:DA:2557:G:O2'	31:DA:2558:C:H5'	1.88	0.73
40:DO:65:THR:HG23	40:DO:69:ILE:HD11	1.69	0.73
41:DP:120:ALA:HB1	41:DP:138:LEU:HB3	1.71	0.73
43:DR:87:TYR:O	43:DR:89:ASP:N	2.22	0.73
47:DV:83:ARG:HH11	47:DV:83:ARG:CG	2.02	0.73
1:AA:328:C:O2	1:AA:328:C:H2'	1.88	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:101:ILE:HG12	5:AE:101:ILE:O	1.87	0.73
8:AH:51:VAL:HG11	8:AH:60:ARG:HG3	1.68	0.73
18:AR:45:SER:H	18:AR:51:LEU:HD11	1.53	0.73
19:AS:36:ARG:HH12	19:AS:75:ALA:HB3	1.54	0.73
28:B6:36:LEU:HD13	28:B6:50:ARG:CZ	2.18	0.73
37:BH:153:LYS:HD3	37:BH:153:LYS:N	2.03	0.73
37:BH:158:HIS:CE1	37:BH:169:VAL:C	2.66	0.73
39:BN:82:LEU:HD12	39:BN:82:LEU:H	1.52	0.73
1:CA:180:U:C2'	1:CA:181:G:H5'	2.19	0.73
14:CN:29:ARG:HD3	14:CN:40:CYS:SG	2.29	0.73
31:DA:2476:A:H2'	31:DA:2477:C:H5"	1.70	0.73
31:DA:2712:U:H1'	31:DA:2712(A):A:C8	2.23	0.73
31:DA:2712:U:O2'	31:DA:2712(A):A:OP2	2.07	0.73
34:DE:77:ILE:HG23	34:DE:78:LEU:O	1.89	0.73
36:DG:127:GLY:CA	36:DG:166:ASP:HB3	2.19	0.73
41:DP:41:ARG:HA	41:DP:41:ARG:NH2	2.04	0.73
48:DW:4:LYS:CB	48:DW:106:ILE:HG22	2.19	0.73
50:DY:8:LYS:HE2	50:DY:72:VAL:HG23	1.70	0.73
1:AA:266:G:H5"	1:AA:268:C:H41	1.54	0.73
23:B1:27:GLU:OE2	23:B1:32:LYS:HB2	1.89	0.73
31:BA:527:C:OP2	31:BA:2779:U:H5	1.71	0.73
31:BA:867:C:O2	31:BA:913:U:H5'	1.89	0.73
31:BA:2023:G:H5'	31:BA:2617:C:H4'	1.71	0.73
50:BY:75:ILE:HG12	50:BY:79:CYS:CA	2.19	0.73
1:CA:1256:A:H5'	1:CA:1257:U:OP1	1.88	0.73
25:D3:44:ARG:O	25:D3:48:GLU:HG2	1.89	0.73
31:DA:2029:G:H2'	31:DA:2031:A:OP2	1.89	0.73
44:DS:28:VAL:CB	44:DS:89:ARG:HB2	2.16	0.73
45:DT:29:ARG:CB	45:DT:85:LYS:HA	2.19	0.73
2:AB:97:TRP:CH2	2:AB:173:ALA:HA	2.24	0.72
4:AD:8:VAL:HG12	4:AD:21:LEU:CD1	2.19	0.72
4:AD:146:ILE:HD12	4:AD:146:ILE:N	2.04	0.72
12:AL:102:ARG:HG3	12:AL:102:ARG:NH1	2.03	0.72
15:AO:67:LEU:HD22	15:AO:78:TYR:HE1	1.54	0.72
32:BB:48:A:OP1	44:BS:93:LYS:HB3	1.89	0.72
37:BH:157:TYR:O	37:BH:158:HIS:HB2	1.89	0.72
41:BP:33:ARG:O	41:BP:35:HIS:N	2.22	0.72
43:BR:116:LEU:O	43:BR:117:VAL:HB	1.87	0.72
51:BZ:61:LEU:HB2	51:BZ:65:GLN:HB2	1.71	0.72
1:CA:693:G:H1'	7:CG:82:GLY:HA3	1.71	0.72
2:CB:61:LEU:HA	2:CB:64:ARG:HG2	1.71	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:62:GLN:HA	15:CO:65:ARG:HH11	1.54	0.72
24:D2:26:ARG:CZ	24:D2:29:LYS:HE2	2.19	0.72
31:DA:484:C:H2'	31:DA:485:C:H6	1.52	0.72
31:DA:2405:G:O2'	31:DA:2406:U:OP1	2.07	0.72
35:DF:39:TRP:O	35:DF:43:LYS:HG2	1.89	0.72
38:DI:75:LEU:HD11	38:DI:105:HIS:HE1	1.52	0.72
40:DO:64:ARG:HG2	40:DO:79:PHE:CG	2.24	0.72
41:DP:36:LYS:O	41:DP:38:GLN:HG2	1.87	0.72
1:AA:667:G:H4'	15:AO:51:HIS:CE1	2.25	0.72
1:AA:1342:C:H4'	9:AI:125:TYR:HB3	1.70	0.72
28:B6:20:ASN:O	28:B6:21:TYR:CG	2.43	0.72
31:BA:107:C:H2'	31:BA:108:U:H6	1.53	0.72
31:BA:743:G:C2'	31:BA:744:G:H5'	2.19	0.72
25:D3:11:SER:OG	25:D3:13:ILE:HG12	1.89	0.72
31:DA:587:C:H4'	31:DA:588:U:OP2	1.88	0.72
31:DA:743:G:H2'	31:DA:744:G:H5'	1.70	0.72
31:DA:1109:C:H5	31:DA:1110:G:C5	2.07	0.72
31:DA:1300:U:H3'	31:DA:1301:A:H5"	1.70	0.72
31:DA:1568:G:P	33:DD:63:ARG:HH22	2.11	0.72
31:DA:2688:U:H5	31:DA:2720:U:OP2	1.72	0.72
33:DD:71:ASP:CB	33:DD:103:ARG:HH22	2.02	0.72
49:DX:89:ILE:HA	49:DX:92:LEU:HB2	1.69	0.72
2:AB:77:ALA:HB2	2:AB:211:ILE:HD13	1.70	0.72
6:AF:62:TRP:CH2	6:AF:64:GLN:HB2	2.24	0.72
12:AL:119:LYS:HB2	12:AL:120:TYR:CD1	2.24	0.72
24:B2:49:LYS:HD2	24:B2:53:LEU:CD2	2.18	0.72
31:BA:2316:C:H2'	31:BA:2317:C:H6	1.53	0.72
33:BD:255:LYS:NZ	33:BD:255:LYS:H	1.86	0.72
41:BP:17:LYS:O	41:BP:17:LYS:HG2	1.89	0.72
1:CA:818:G:O2'	1:CA:819:A:H5'	1.89	0.72
24:D2:32:LEU:HD23	31:DA:61:G:O2'	1.88	0.72
31:DA:527:C:OP2	31:DA:2779:U:H5	1.71	0.72
39:DN:13:TRP:HZ3	39:DN:130:HIS:HE1	1.37	0.72
46:DU:88:ILE:C	46:DU:90:VAL:N	2.42	0.72
47:DV:15:GLU:O	47:DV:98:GLU:CD	2.32	0.72
47:DV:90:PRO:CG	47:DV:91:TYR:H	2.02	0.72
1:AA:1112:C:N3	3:AC:178:LEU:HD23	2.05	0.72
1:AA:1442(A):G:C8	45:BT:118:ARG:HD2	2.23	0.72
12:AL:124:LYS:HD2	12:AL:125:PRO:HD2	1.71	0.72
25:B3:44:ARG:O	25:B3:48:GLU:HG2	1.88	0.72
31:BA:1109:C:H5	31:BA:1110:G:C5	2.06	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:71:ASP:CB	33:BD:103:ARG:HH22	2.03	0.72
37:BH:156:ALA:C	37:BH:158:HIS:N	2.43	0.72
1:CA:102:G:C4	1:CA:103:C:C5	2.77	0.72
1:CA:862:C:H2'	1:CA:863:U:H5'	1.69	0.72
1:CA:1159:U:H4'	1:CA:1160:G:OP1	1.88	0.72
2:CB:97:TRP:CH2	2:CB:173:ALA:HA	2.24	0.72
31:DA:542:C:N3	31:DA:543:C:N4	2.36	0.72
34:DE:151:TYR:HD2	34:DE:154:LYS:HZ3	1.38	0.72
41:DP:17:LYS:HG2	41:DP:17:LYS:O	1.89	0.72
1:AA:359:U:H2'	1:AA:360:A:C8	2.24	0.72
1:AA:963:G:H21	10:AJ:55:LYS:HD3	1.52	0.72
2:AB:167:PRO:HG3	2:AB:188:ALA:HB2	1.71	0.72
31:BA:482:A:H4'	50:BY:47:LYS:HZ3	1.53	0.72
31:BA:631:A:OP1	41:BP:64:LYS:HE2	1.89	0.72
31:BA:2307:G:H21	31:BA:2308:G:H5'	1.54	0.72
32:BB:94:C:H2'	32:BB:95:C:C6	2.25	0.72
38:BI:2:LYS:HB2	38:BI:39:ALA:HB3	1.72	0.72
41:BP:120:ALA:CB	41:BP:138:LEU:HB3	2.19	0.72
30:D8:18:ALA:HB3	31:DA:651:G:H4'	1.71	0.72
33:DD:32:SER:O	33:DD:33:LEU:CB	2.35	0.72
50:DY:27:VAL:HG12	50:DY:29:GLU:H	1.54	0.72
1:AA:365:U:H5"	1:AA:366:C:OP1	1.90	0.72
31:BA:1246:A:OP1	41:BP:18:ARG:HD3	1.90	0.72
31:BA:1652:A:H5'	31:BA:1652:A:H8	1.54	0.72
32:BB:87:G:C3'	32:BB:88:C:H5"	2.20	0.72
44:BS:56:LEU:HD23	44:BS:57:LYS:N	2.05	0.72
49:BX:33:LYS:HA	49:BX:35:THR:HG22	1.70	0.72
1:CA:38:G:C2	1:CA:397:A:C2	2.77	0.72
1:CA:937:A:H1'	1:CA:1379:G:N2	2.04	0.72
1:CA:1238:A:H62	1:CA:1299:A:N6	1.87	0.72
6:CF:89:MET:HG2	6:CF:91:VAL:HG23	1.70	0.72
12:CL:69:TYR:HB3	12:CL:99:HIS:CD2	2.24	0.72
22:D0:26:TYR:CE2	31:DA:857:C:H1'	2.25	0.72
28:D6:11:LEU:HD23	28:D6:26:ASN:H	1.53	0.72
31:DA:484:C:H2'	31:DA:485:C:C6	2.24	0.72
31:DA:1246:A:OP1	41:DP:18:ARG:HD3	1.89	0.72
31:DA:1527:G:H5"	31:DA:1528:A:OP1	1.90	0.72
31:DA:1670:C:O2	34:DE:129:HIS:HE1	1.72	0.72
31:DA:2199:A:H3'	31:DA:2200:C:H6	1.55	0.72
32:DB:37:C:C5	32:DB:38:C:C5	2.77	0.72
39:DN:73:THR:O	39:DN:75:TYR:N	2.21	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DZ:69:THR:HG22	51:DZ:90:VAL:HA	1.69	0.72
1:AA:559:A:H4'	1:AA:560:U:H3'	1.71	0.72
2:AB:55:PHE:HE1	2:AB:218:ALA:HA	1.53	0.72
31:BA:142:A:H8	31:BA:1595:G:H21	1.32	0.72
31:BA:2106:G:H1'	31:BA:2184:G:N2	2.04	0.72
33:BD:72:LYS:HZ2	33:BD:75:ILE:HD12	1.55	0.72
33:BD:267:SER:C	33:BD:269:PHE:N	2.47	0.72
35:BF:20:LEU:HD23	35:BF:23:ASP:OD2	1.90	0.72
44:BS:28:VAL:CB	44:BS:89:ARG:HB2	2.17	0.72
49:BX:82:GLN:C	49:BX:85:PRO:HD2	2.15	0.72
50:BY:27:VAL:HG12	50:BY:29:GLU:H	1.54	0.72
16:CP:4:ILE:HB	16:CP:66:PRO:HB3	1.70	0.72
20:CT:23:ARG:HA	20:CT:26:ASN:HD21	1.54	0.72
31:DA:2094:G:OP1	38:DI:22:LYS:HD3	1.89	0.72
31:DA:2106:G:H1'	31:DA:2184:G:N2	2.03	0.72
33:DD:260:ARG:HH22	33:DD:266:SER:HB2	1.53	0.72
36:DG:20:ILE:O	36:DG:24:GLY:HA2	1.90	0.72
39:DN:78:TYR:HD1	39:DN:79:PRO:HD3	1.52	0.72
43:DR:53:HIS:HD2	43:DR:94:TYR:OH	1.72	0.72
49:DX:38:GLU:N	49:DX:38:GLU:OE1	2.21	0.72
23:B1:85:LEU:CB	23:B1:87:PRO:HD3	2.20	0.72
37:BH:66:GLY:HA2	37:BH:69:ARG:HB2	1.72	0.72
50:BY:75:ILE:CD1	50:BY:76:CYS:H	2.01	0.72
50:BY:95:LYS:HE2	50:BY:101:LYS:HA	1.70	0.72
24:D2:26:ARG:HA	24:D2:29:LYS:HE3	1.71	0.72
31:DA:639:U:H2'	31:DA:640:C:C6	2.24	0.72
31:DA:1022:G:N2	31:DA:1142(A):A:C2	2.56	0.72
31:DA:1531:C:H3'	31:DA:1532:C:C5'	2.20	0.72
34:DE:201:THR:HG22	34:DE:203:LYS:H	1.54	0.72
35:DF:18:ARG:HG2	35:DF:19:GLU:N	2.02	0.72
37:DH:66:GLY:HA2	37:DH:69:ARG:HB2	1.71	0.72
37:DH:92:ILE:O	37:DH:94:TYR:N	2.23	0.72
1:AA:1159:U:H4'	1:AA:1160:G:OP1	1.88	0.72
31:BA:1190:G:H5'	41:BP:35:HIS:CB	2.20	0.72
31:BA:2517:C:C6	31:BA:2542:A:C2	2.77	0.72
31:BA:2781:A:H5"	31:BA:2781:A:H8	1.54	0.72
34:BE:203:LYS:O	34:BE:203:LYS:HD2	1.90	0.72
39:BN:112:LEU:O	39:BN:112:LEU:HD12	1.89	0.72
1:CA:441:A:H3'	1:CA:442:C:H6	1.55	0.72
31:DA:1713:U:O2'	31:DA:1714:G:H5'	1.89	0.72
32:DB:48:A:OP1	44:DS:93:LYS:HB3	1.90	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DI:2:LYS:HB2	38:DI:39:ALA:HB3	1.70	0.72
51:DZ:8:TYR:O	51:DZ:37:VAL:HG12	1.90	0.72
1:AA:545:C:H5"	4:AD:72:GLU:HG2	1.72	0.72
10:AJ:63:PHE:HZ	14:AN:45:ARG:HG3	1.55	0.72
31:BA:669:G:H8	31:BA:669:G:HO2'	1.37	0.72
31:BA:1168:G:C2'	31:BA:1169:G:H5'	2.19	0.72
31:BA:1225:G:OP1	47:BV:88:ARG:HB3	1.90	0.72
31:BA:1847:A:H4'	31:BA:1848:A:OP2	1.90	0.72
33:BD:30:GLU:CD	33:BD:63:ARG:HE	1.98	0.72
37:BH:92:ILE:O	37:BH:94:TYR:N	2.23	0.72
41:BP:107:LYS:C	41:BP:109:GLY:H	1.98	0.72
45:BT:29:ARG:HG3	45:BT:30:VAL:HG13	1.72	0.72
15:CO:56:LEU:O	15:CO:60:VAL:HG23	1.90	0.72
28:D6:10:LEU:H	28:D6:10:LEU:CD2	2.03	0.72
32:DB:87:G:C3'	32:DB:88:C:H5"	2.20	0.72
35:DF:89:VAL:HG12	35:DF:90:PHE:H	1.53	0.72
38:DI:83:ALA:HB3	38:DI:144:VAL:HG13	1.72	0.72
38:DI:88:ILE:HD11	38:DI:123:LEU:HD23	1.70	0.72
39:DN:3:THR:C	39:DN:4:TYR:CD1	2.67	0.72
43:DR:33:ARG:HG2	43:DR:115:GLU:CG	2.20	0.72
43:DR:55:ALA:HB2	43:DR:79:LEU:HD13	1.72	0.72
47:DV:19:LYS:CG	47:DV:20:LEU:O	2.38	0.72
47:DV:82:ARG:HG3	47:DV:82:ARG:NH1	2.05	0.72
48:DW:92:ARG:HG2	48:DW:92:ARG:NH1	2.00	0.72
1:AA:102:G:H2'	1:AA:103:C:C6	2.25	0.71
1:AA:102:G:C4	1:AA:103:C:C5	2.78	0.71
1:AA:428:G:H4'	1:AA:429:U:O5'	1.90	0.71
1:AA:499:A:H4'	1:AA:500:G:OP1	1.88	0.71
1:AA:1104:G:H4'	2:AB:111:ARG:NH1	2.04	0.71
2:AB:61:LEU:HA	2:AB:64:ARG:HG2	1.72	0.71
9:AI:53:VAL:HB	9:AI:92:TYR:HE2	1.55	0.71
23:B1:10:LYS:HB2	23:B1:14:VAL:N	2.04	0.71
31:BA:1880:C:H6	31:BA:1880:C:C5'	2.03	0.71
33:BD:16:MET:HB2	33:BD:207:GLY:HA3	1.70	0.71
35:BF:160:ASN:HD21	35:BF:162:LEU:HB2	1.54	0.71
39:BN:131:GLN:CD	39:BN:134:ARG:HB3	2.14	0.71
12:CL:6:THR:HG23	12:CL:9:GLN:HE21	1.54	0.71
28:D6:19:ARG:CG	28:D6:20:ASN:H	2.01	0.71
30:D8:35:GLN:HA	31:DA:2420:C:OP2	1.89	0.71
31:DA:2012:G:H4'	48:DW:96:ILE:CD1	2.20	0.71
33:DD:11:PRO:O	33:DD:13:ARG:N	2.22	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DD:28:GLU:HB2	33:DD:29:PRO:HD3	1.72	0.71
35:DF:20:LEU:HD22	35:DF:203:GLN:NE2	2.05	0.71
37:DH:153:LYS:HD3	37:DH:153:LYS:H	1.53	0.71
43:DR:97:VAL:HG22	43:DR:114:VAL:HG22	1.72	0.71
1:AA:688:G:H2'	1:AA:689:C:H6	1.55	0.71
3:AC:157:ILE:HD11	3:AC:166:GLU:HB2	1.72	0.71
16:AP:53:VAL:O	16:AP:57:ARG:HG2	1.90	0.71
30:B8:59:LYS:NZ	30:B8:59:LYS:CB	2.51	0.71
31:BA:1313:U:H2'	31:BA:1610:A:C2	2.25	0.71
45:BT:91:ARG:HA	45:BT:117:ASP:H	1.54	0.71
1:CA:552:U:H4'	12:CL:86:ARG:HG2	1.72	0.71
1:CA:624:C:H4'	16:CP:10:GLY:HA2	1.72	0.71
1:CA:1101:A:H4'	1:CA:1102:A:O5'	1.90	0.71
6:CF:67:MET:HB2	6:CF:68:PRO:HD2	1.71	0.71
24:D2:37:PHE:CE2	24:D2:40:SER:HA	2.21	0.71
30:D8:52:LYS:N	30:D8:53:PRO:HD2	2.05	0.71
31:DA:774:A:H2	31:DA:787:U:HO2'	1.38	0.71
31:DA:2752:C:H2'	31:DA:2752:C:O2	1.90	0.71
34:DE:103:ASP:OD2	34:DE:168:MET:HE2	1.90	0.71
49:DX:36:LYS:O	49:DX:36:LYS:HD2	1.89	0.71
1:AA:66:G:H4'	1:AA:173:U:C5	2.24	0.71
1:AA:1054:C:O2'	1:AA:1055:A:H5"	1.90	0.71
24:B2:49:LYS:O	24:B2:52:ASP:HB3	1.89	0.71
31:BA:780:G:H21	31:BA:783:A:H62	1.37	0.71
31:BA:2469:A:H2	31:BA:2481:G:N2	1.87	0.71
34:BE:1:MET:HB2	34:BE:83:ASP:O	1.91	0.71
51:BZ:151:HIS:N	51:BZ:151:HIS:CD2	2.58	0.71
1:CA:102:G:H2'	1:CA:103:C:C6	2.25	0.71
8:CH:5:PRO:O	8:CH:8:ASP:HB3	1.90	0.71
19:CS:36:ARG:HH12	19:CS:75:ALA:HB3	1.56	0.71
33:DD:30:GLU:HG3	33:DD:63:ARG:CZ	2.20	0.71
35:DF:20:LEU:HD23	35:DF:23:ASP:OD2	1.91	0.71
1:AA:509:A:C2	1:AA:510:A:C2	2.78	0.71
5:AE:51:VAL:HB	5:AE:52:PRO:HD3	1.73	0.71
9:AI:53:VAL:HB	9:AI:92:TYR:CE2	2.25	0.71
24:B2:32:LEU:HD23	31:BA:61:G:O2'	1.91	0.71
28:B6:25:LYS:O	31:BA:2286:A:H2	1.73	0.71
31:BA:747:U:O2	31:BA:2014:A:H1'	1.90	0.71
39:BN:3:THR:C	39:BN:4:TYR:CD1	2.68	0.71
47:BV:65:GLY:O	47:BV:66:ARG:HB3	1.90	0.71
47:BV:72:VAL:HA	47:BV:88:ARG:HH22	1.56	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:976:G:H5'	1:CA:1358:U:O2'	1.90	0.71
1:CA:1112:C:N3	3:CC:178:LEU:HD23	2.05	0.71
5:CE:139:LEU:HA	5:CE:142:LEU:HD12	1.70	0.71
25:D3:19:GLN:NE2	25:D3:52:HIS:HE1	1.88	0.71
31:DA:251:A:H5"	41:DP:51:PHE:HZ	1.56	0.71
31:DA:1847:A:H4'	31:DA:1848:A:OP2	1.90	0.71
43:DR:100:LEU:HD22	43:DR:100:LEU:N	2.04	0.71
47:DV:62:LEU:HD22	47:DV:98:GLU:CB	2.21	0.71
9:AI:45:ALA:O	9:AI:48:GLU:HB2	1.90	0.71
10:AJ:8:LEU:HG	10:AJ:96:ILE:HG22	1.73	0.71
15:AO:81:LEU:HD11	15:AO:85:LEU:HD12	1.73	0.71
31:BA:1899:G:H21	31:BA:1902:C:H5	1.38	0.71
31:BA:2472:G:H5"	31:BA:2472:G:H8	1.54	0.71
31:BA:2758:A:H2'	31:BA:2759:G:C5'	2.17	0.71
34:BE:51:PHE:CE1	34:BE:52:LEU:HD13	2.26	0.71
39:BN:78:TYR:HD1	39:BN:79:PRO:HD3	1.54	0.71
39:BN:120:LEU:CD1	39:BN:122:VAL:HG23	2.13	0.71
40:BO:107:ARG:HH12	45:BT:35:LYS:CB	2.02	0.71
45:BT:102:ILE:HB	45:BT:110:ILE:CD1	2.21	0.71
9:CI:53:VAL:HB	9:CI:92:TYR:HE2	1.56	0.71
31:DA:1794:U:H2'	31:DA:1795:C:H6	1.52	0.71
32:DB:44:G:H1'	32:DB:47:C:N4	2.05	0.71
45:DT:29:ARG:HG3	45:DT:30:VAL:HG13	1.73	0.71
7:AG:15:ASP:HB3	7:AG:19:GLY:H	1.54	0.71
12:AL:76:ASN:O	12:AL:77:LEU:HD23	1.91	0.71
31:BA:7:G:H2'	31:BA:8:A:O4'	1.90	0.71
34:BE:36:ARG:HH21	34:BE:88:GLY:CA	2.02	0.71
41:BP:48:PRO:O	41:BP:50:ARG:N	2.24	0.71
47:BV:64:HIS:HB3	47:BV:96:ILE:HG12	1.73	0.71
49:BX:26:TYR:OH	49:BX:89:ILE:HG21	1.90	0.71
1:CA:992:U:H1'	1:CA:993:G:OP2	1.89	0.71
31:DA:351:G:H5"	31:DA:352:G:OP2	1.91	0.71
31:DA:528:A:O2'	31:DA:529:A:H5'	1.90	0.71
41:DP:98:GLU:HG3	41:DP:99:LEU:N	2.04	0.71
1:AA:559:A:C5'	1:AA:560:U:H3'	2.19	0.71
4:AD:49:ARG:HA	4:AD:49:ARG:HE	1.55	0.71
20:AT:23:ARG:HA	20:AT:26:ASN:HD21	1.55	0.71
28:B6:20:ASN:O	28:B6:21:TYR:CD1	2.44	0.71
30:B8:4:MET:HE2	31:BA:592:G:N3	2.05	0.71
30:B8:32:LEU:HB2	30:B8:35:GLN:H	1.54	0.71
31:BA:484:C:H2'	31:BA:485:C:C6	2.25	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:960:A:H5"	31:BA:961:C:OP2	1.89	0.71
31:BA:1590:U:H2'	31:BA:1591:G:H5"	1.72	0.71
45:BT:38:ASN:HD22	45:BT:38:ASN:C	1.99	0.71
50:BY:90:LEU:HD12	50:BY:91:GLU:HG2	1.73	0.71
51:BZ:8:TYR:O	51:BZ:37:VAL:HG12	1.91	0.71
28:D6:15:GLU:HB3	28:D6:18:ARG:HG2	1.71	0.71
31:DA:1022:G:N2	31:DA:1142(A):A:H2	1.79	0.71
31:DA:1118:C:H5'	51:DZ:80:ARG:HH22	1.56	0.71
31:DA:1171:G:C8	31:DA:1173:G:H1'	2.26	0.71
37:DH:157:TYR:O	37:DH:158:HIS:HB2	1.88	0.71
49:DX:23:GLU:HG3	49:DX:24:GLY:H	1.54	0.71
49:DX:26:TYR:OH	49:DX:89:ILE:HG21	1.91	0.71
11:AK:52:GLY:H	11:AK:55:LYS:HG3	1.56	0.71
12:AL:87:GLY:HA2	12:AL:98:TYR:HA	1.71	0.71
19:AS:44:MET:HA	19:AS:44:MET:HE3	1.73	0.71
23:B1:65:SER:H	23:B1:67:ILE:HD11	1.56	0.71
38:BI:82:ARG:HG2	38:BI:89:TYR:CD2	2.26	0.71
10:CJ:34:VAL:HG22	10:CJ:74:ILE:HG22	1.73	0.71
28:D6:51:GLU:O	28:D6:52:VAL:HB	1.90	0.71
31:DA:102:G:HO2'	31:DA:103:A:P	2.13	0.71
31:DA:1204:A:C2	31:DA:1241:A:N1	2.59	0.71
31:DA:2261:C:O2'	31:DA:2262:U:H5'	1.90	0.71
36:DG:63:ILE:HA	36:DG:143:GLU:HG3	1.73	0.71
46:DU:47:TYR:HA	46:DU:50:ARG:NH2	2.06	0.71
47:DV:70:ILE:O	47:DV:71:LEU:HB2	1.89	0.71
1:AA:240:C:H2'	1:AA:241:C:C6	2.24	0.71
4:AD:133:VAL:HG11	4:AD:138:TYR:CD1	2.26	0.71
12:AL:27:LEU:O	12:AL:29:GLY:N	2.23	0.71
33:BD:25:THR:HG23	33:BD:25:THR:O	1.90	0.71
33:BD:39:LYS:HB2	33:BD:62:TYR:HB2	1.72	0.71
49:BX:24:GLY:O	49:BX:25:LYS:O	2.09	0.71
28:D6:12:GLU:HB3	28:D6:23:THR:HG22	1.72	0.71
31:DA:142:A:H8	31:DA:1595:G:H21	1.37	0.71
31:DA:184:C:H2'	31:DA:185:U:C6	2.26	0.71
31:DA:536:A:H2'	31:DA:537:C:H6	1.56	0.71
31:DA:1257:C:H4'	35:DF:83:PHE:CE2	2.26	0.71
31:DA:1879:C:C2'	31:DA:1880:C:H5"	2.21	0.71
38:DI:38:LEU:HD12	38:DI:38:LEU:H	1.55	0.71
45:DT:60:THR:HG22	45:DT:77:PRO:HA	1.71	0.71
46:DU:31:SER:O	46:DU:33:ARG:N	2.24	0.71
1:AA:624:C:H4'	16:AP:10:GLY:HA2	1.72	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:65:LEU:HD13	14:AN:56:VAL:HG22	1.72	0.71
22:B0:20:ARG:NH1	31:BA:2357:U:OP1	2.23	0.71
23:B1:85:LEU:HB3	23:B1:87:PRO:CD	2.21	0.71
31:BA:2250:G:C5	42:BQ:82:ARG:HD3	2.26	0.71
31:BA:2712:U:O2'	31:BA:2712(A):A:OP2	2.08	0.71
33:BD:166:GLN:HA	33:BD:166:GLN:NE2	2.04	0.71
35:BF:65:TRP:CZ3	35:BF:75:HIS:HD2	2.09	0.71
36:BG:86:MET:HB2	36:BG:87:PRO:CD	2.19	0.71
41:BP:120:ALA:HB1	41:BP:138:LEU:HB3	1.72	0.71
1:CA:102:G:C5	1:CA:103:C:C5	2.79	0.71
30:D8:46:ARG:HH22	41:DP:65:ARG:HH22	1.39	0.71
31:DA:494:G:OP1	48:DW:8:ARG:NH1	2.23	0.71
41:DP:47:ASP:HB3	41:DP:48:PRO:O	1.90	0.71
42:DQ:97:VAL:HG11	42:DQ:103:MET:HE3	1.73	0.71
49:DX:33:LYS:O	49:DX:35:THR:N	2.24	0.71
1:AA:445:G:H2'	1:AA:446:G:C8	2.25	0.70
1:AA:662:G:H2'	1:AA:663:A:C8	2.26	0.70
1:AA:992:U:H1'	1:AA:993:G:OP2	1.89	0.70
8:AH:5:PRO:O	8:AH:8:ASP:HB3	1.90	0.70
28:B6:15:GLU:HB3	28:B6:18:ARG:HG2	1.73	0.70
28:B6:39:TYR:O	28:B6:49:HIS:HE1	1.74	0.70
1:CA:84:U:C5	1:CA:88:A:C8	2.79	0.70
1:CA:819:A:H4'	1:CA:820:U:OP2	1.90	0.70
3:CC:157:ILE:HD11	3:CC:166:GLU:HB2	1.72	0.70
4:CD:146:ILE:HD12	4:CD:146:ILE:N	2.05	0.70
9:CI:10:ARG:HD3	9:CI:75:ASP:HB3	1.72	0.70
27:D5:32:PRO:O	27:D5:33:CYS:HB3	1.91	0.70
30:D8:34:TRP:O	30:D8:35:GLN:HB2	1.91	0.70
31:DA:780:G:H21	31:DA:783:A:H62	1.38	0.70
31:DA:1205:U:H4'	31:DA:1206:G:OP2	1.90	0.70
31:DA:1528(A):A:N7	31:DA:1529:G:H8	1.88	0.70
31:DA:1529:G:H21	31:DA:1530:C:C5'	2.04	0.70
31:DA:1880:C:C5'	31:DA:1880:C:H6	2.04	0.70
32:DB:48:A:H4'	44:DS:95:HIS:HD2	1.56	0.70
33:DD:244:ARG:HG2	33:DD:245:PRO:HD3	1.71	0.70
40:DO:107:ARG:HH12	45:DT:35:LYS:CB	2.02	0.70
41:DP:30:THR:HG22	41:DP:31:ALA:N	2.03	0.70
44:DS:56:LEU:HD23	44:DS:57:LYS:N	2.06	0.70
1:AA:194:C:H2'	1:AA:195:A:H5"	1.73	0.70
31:BA:83:G:N2	31:BA:102:G:O2'	2.23	0.70
31:BA:1777:U:O2'	31:BA:1778:U:H5'	1.90	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:126:GLN:O	33:BD:193:VAL:HG11	1.91	0.70
34:BE:92:THR:H	34:BE:95:ILE:CD1	2.04	0.70
47:BV:47:VAL:HG13	47:BV:48:GLY:N	2.05	0.70
49:BX:23:GLU:HG3	49:BX:24:GLY:H	1.56	0.70
50:BY:45:VAL:HG21	50:BY:61:ILE:C	2.16	0.70
1:CA:359:U:H2'	1:CA:360:A:H8	1.56	0.70
1:CA:386:C:C2'	1:CA:387:U:H5'	2.21	0.70
1:CA:394:G:H2'	1:CA:395:C:H6	1.56	0.70
1:CA:430:A:OP2	4:CD:8:VAL:HG23	1.91	0.70
1:CA:878:G:H5'	8:CH:89:PRO:HG2	1.73	0.70
18:CR:43:PHE:C	18:CR:44:LEU:HD12	2.16	0.70
31:DA:1168:G:C2'	31:DA:1169:G:H5'	2.22	0.70
31:DA:2223:G:C2'	31:DA:2224:G:H5'	2.21	0.70
31:DA:2317:C:H2'	31:DA:2317:C:O2	1.91	0.70
38:DI:2:LYS:HB2	38:DI:39:ALA:CB	2.21	0.70
38:DI:61:ARG:O	38:DI:133:HIS:CE1	2.44	0.70
39:DN:131:GLN:CD	39:DN:134:ARG:HB3	2.17	0.70
46:DU:83:LEU:HG	46:DU:88:ILE:HG12	1.71	0.70
49:DX:33:LYS:HA	49:DX:35:THR:HG22	1.72	0.70
3:AC:132:ARG:O	3:AC:136:GLN:HB2	1.90	0.70
24:B2:33:MET:HG2	49:BX:11:PRO:HD2	1.72	0.70
26:B4:25:TYR:C	26:B4:27:THR:H	1.96	0.70
31:BA:2317:C:H2'	31:BA:2317:C:O2	1.89	0.70
31:BA:2444:G:OP2	35:BF:68:LYS:HE2	1.91	0.70
34:BE:117:MET:O	34:BE:117:MET:HG2	1.91	0.70
44:BS:28:VAL:HB	44:BS:89:ARG:CB	2.15	0.70
1:CA:193:C:H2'	1:CA:194:C:H6	1.57	0.70
1:CA:328:C:H2'	1:CA:328:C:O2	1.90	0.70
1:CA:1118:C:H1'	1:CA:1179:A:C4	2.26	0.70
33:DD:35:LYS:HB3	33:DD:63:ARG:HA	1.73	0.70
35:DF:9:ILE:HG12	35:DF:14:PRO:C	2.17	0.70
41:DP:95:VAL:HG22	41:DP:125:VAL:HB	1.71	0.70
42:DQ:34:LEU:HD11	42:DQ:129:THR:HB	1.73	0.70
51:DZ:130:PRO:HA	51:DZ:133:ILE:HD11	1.73	0.70
1:AA:359:U:H2'	1:AA:360:A:H8	1.55	0.70
1:AA:1101:A:H4'	1:AA:1102:A:O5'	1.90	0.70
9:AI:10:ARG:HD3	9:AI:75:ASP:HB3	1.71	0.70
18:AR:43:PHE:C	18:AR:44:LEU:HD12	2.16	0.70
30:B8:34:TRP:O	30:B8:35:GLN:HB2	1.90	0.70
31:BA:307:G:H22	31:BA:310:A:H5'	1.55	0.70
31:BA:2029:G:H2'	31:BA:2031:A:OP2	1.91	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2307:G:H3'	31:BA:2307:G:N3	2.06	0.70
37:BH:141:VAL:HG12	37:BH:142:GLY:N	2.07	0.70
47:BV:1:MET:HE3	47:BV:44:LYS:CB	2.15	0.70
50:BY:76:CYS:O	50:BY:99:CYS:SG	2.48	0.70
9:CI:53:VAL:HB	9:CI:92:TYR:CE2	2.26	0.70
31:DA:676:A:H2	31:DA:802:A:H61	1.35	0.70
36:DG:86:MET:HB2	36:DG:87:PRO:CD	2.21	0.70
37:DH:153:LYS:HD3	37:DH:153:LYS:N	2.06	0.70
42:DQ:35:VAL:HG13	42:DQ:130:LYS:HB3	1.72	0.70
44:DS:87:PHE:O	44:DS:88:ASP:CB	2.39	0.70
45:DT:56:GLY:O	45:DT:59:THR:CG2	2.39	0.70
49:DX:82:GLN:C	49:DX:85:PRO:HD2	2.16	0.70
1:AA:937:A:H1'	1:AA:1379:G:N2	2.05	0.70
1:AA:1321:C:H5'	1:AA:1322:C:H5"	1.73	0.70
4:AD:108:LEU:HD11	4:AD:174:LEU:HD22	1.73	0.70
31:BA:910:A:H62	42:BQ:12:GLN:HA	1.57	0.70
31:BA:1205:U:H4'	31:BA:1206:G:OP2	1.90	0.70
31:BA:2394:C:H2'	31:BA:2395:C:H5'	1.71	0.70
32:BB:15:A:H5'	32:BB:16:G:C8	2.25	0.70
36:BG:20:ILE:O	36:BG:24:GLY:HA2	1.91	0.70
37:BH:88:LEU:O	37:BH:89:ILE:HG23	1.91	0.70
6:CF:11:ASN:HB3	6:CF:14:LEU:HG	1.72	0.70
23:D1:88:LYS:O	23:D1:92:LYS:HB2	1.91	0.70
24:D2:49:LYS:HD2	24:D2:53:LEU:CD2	2.20	0.70
28:D6:40:CYS:SG	28:D6:45:LYS:NZ	2.57	0.70
31:DA:7:G:H2'	31:DA:8:A:O4'	1.90	0.70
31:DA:286:C:H2'	31:DA:287:C:H5'	1.73	0.70
37:DH:156:ALA:C	37:DH:158:HIS:N	2.45	0.70
42:DQ:8:LYS:HG3	42:DQ:9:TYR:N	2.06	0.70
47:DV:72:VAL:HA	47:DV:88:ARG:HH22	1.56	0.70
1:AA:1064:G:H1'	1:AA:1065:U:OP2	1.92	0.70
23:B1:34:THR:HG23	31:BA:388:G:OP1	1.91	0.70
24:B2:47:ASN:ND2	24:B2:48:HIS:N	2.39	0.70
30:B8:52:LYS:N	30:B8:53:PRO:CD	2.54	0.70
31:BA:71:A:H8	31:BA:71:A:H5'	1.54	0.70
31:BA:1472:A:C2'	31:BA:1473:G:H5'	2.22	0.70
31:BA:2688:U:C5	31:BA:2720:U:OP2	2.44	0.70
32:BB:7:G:H5'	44:BS:29:PHE:CE1	2.26	0.70
35:BF:182:ASN:O	35:BF:186:ILE:HG12	1.91	0.70
42:BQ:89:ASN:O	42:BQ:91:GLU:N	2.25	0.70
44:BS:36:TYR:N	44:BS:36:TYR:CD1	2.52	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BT:45:PHE:HE2	45:BT:63:VAL:HG22	1.56	0.70
49:BX:73:ARG:H	49:BX:74:PRO:CD	2.05	0.70
49:BX:89:ILE:HA	49:BX:92:LEU:HB2	1.72	0.70
51:BZ:102:LEU:HD21	51:BZ:124:ILE:HG23	1.72	0.70
1:CA:359:U:H2'	1:CA:360:A:C8	2.26	0.70
31:DA:251:A:H5"	41:DP:51:PHE:CZ	2.27	0.70
31:DA:1771:C:HO2'	31:DA:1786:A:H8	0.76	0.70
31:DA:1779:U:H6	31:DA:1784:A:H62	1.39	0.70
31:DA:1805:U:O2	33:DD:50:THR:HB	1.91	0.70
31:DA:1970:A:H5'	31:DA:1972:A:H1'	1.74	0.70
31:DA:2307:G:H3'	31:DA:2307:G:N3	2.07	0.70
1:AA:616:G:C2	1:AA:617:G:C8	2.80	0.70
1:AA:1169:A:H2'	1:AA:1170:A:H8	1.56	0.70
27:B5:47:PRO:O	27:B5:48:GLU:HG3	1.92	0.70
31:BA:142:A:H1'	31:BA:1408:C:O4'	1.91	0.70
31:BA:271(K):U:H3'	31:BA:271(L):U:H5'	1.74	0.70
31:BA:1531:C:H3'	31:BA:1532:C:C5'	2.20	0.70
31:BA:2394:C:OP1	41:BP:63:PRO:CD	2.38	0.70
32:BB:82:G:C2'	32:BB:83:G:H5'	2.21	0.70
35:BF:66:PRO:O	35:BF:67:GLN:HB3	1.90	0.70
1:CA:194:C:H2'	1:CA:195:A:H5"	1.73	0.70
1:CA:445:G:H2'	1:CA:446:G:C8	2.26	0.70
1:CA:1064:G:H1'	1:CA:1065:U:OP2	1.90	0.70
4:CD:49:ARG:HA	4:CD:49:ARG:HE	1.56	0.70
4:CD:133:VAL:HG13	4:CD:135:LEU:HD22	1.72	0.70
12:CL:76:ASN:O	12:CL:77:LEU:HD23	1.92	0.70
12:CL:119:LYS:HB2	12:CL:120:TYR:CD1	2.26	0.70
24:D2:41:ILE:HG21	31:DA:95:G:H21	1.56	0.70
28:D6:14:THR:O	28:D6:49:HIS:HA	1.90	0.70
30:D8:61:LEU:HD22	31:DA:593:G:O3'	1.92	0.70
31:DA:271(K):U:H3'	31:DA:271(L):U:H5'	1.74	0.70
31:DA:1225:G:P	47:DV:88:ARG:HB3	2.32	0.70
31:DA:2772:C:H2'	31:DA:2773:C:H6	1.56	0.70
33:DD:35:LYS:NZ	33:DD:65:ILE:HA	2.06	0.70
33:DD:228:PRO:HD3	33:DD:235:GLY:HA3	1.73	0.70
39:DN:3:THR:HA	39:DN:4:TYR:CE1	2.27	0.70
43:DR:87:TYR:HE1	43:DR:117:VAL:HG12	1.56	0.70
44:DS:67:ARG:H	44:DS:69:VAL:HG12	1.56	0.70
45:DT:128:GLU:O	45:DT:130:ALA:N	2.24	0.70
1:AA:84:U:C5	1:AA:88:A:C8	2.79	0.70
1:AA:560:U:H4'	1:AA:561:U:O5'	1.92	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1128:C:H5'	9:AI:16:ARG:HH12	1.57	0.70
3:AC:50:ALA:HB1	3:AC:70:VAL:HG11	1.72	0.70
29:B7:16:HIS:HB2	29:B7:44:PRO:HG2	1.73	0.70
31:BA:484:C:H2'	31:BA:485:C:H6	1.56	0.70
31:BA:2199:A:H3'	31:BA:2200:C:H6	1.57	0.70
31:BA:2267:A:H5"	31:BA:2268:A:H5'	1.72	0.70
31:BA:2584:U:H2'	31:BA:2585:U:H6	1.56	0.70
31:BA:2712:U:H1'	31:BA:2712(A):A:C8	2.26	0.70
39:BN:14:VAL:HA	39:BN:135:PRO:HD2	1.74	0.70
41:BP:14:LYS:O	41:BP:15:ARG:HB2	1.92	0.70
42:BQ:34:LEU:HD11	42:BQ:129:THR:HB	1.72	0.70
42:BQ:134:ARG:HH21	51:BZ:122:ARG:HD2	1.57	0.70
45:BT:128:GLU:O	45:BT:130:ALA:N	2.25	0.70
50:BY:28:LYS:HE3	50:BY:30:VAL:HG22	1.73	0.70
1:CA:1321:C:H5'	1:CA:1322:C:H5"	1.74	0.70
6:CF:91:VAL:HG11	18:CR:72:ARG:NH1	2.07	0.70
31:DA:9:U:C4	31:DA:2629:A:N6	2.60	0.70
31:DA:669:G:HO2'	31:DA:669:G:H8	1.36	0.70
31:DA:848:G:H2'	31:DA:849:A:C8	2.26	0.70
31:DA:1973:G:H2'	31:DA:1974:C:H6	1.57	0.70
33:DD:159:ALA:H	33:DD:161:THR:CG2	2.04	0.70
34:DE:111:ARG:NH1	43:DR:2:ARG:HH21	1.89	0.70
42:DQ:57:HIS:CE1	42:DQ:116:GLU:HB3	2.27	0.70
47:DV:61:VAL:HG12	47:DV:99:ILE:HB	1.72	0.70
1:AA:192:U:O4'	20:AT:103:GLY:HA2	1.91	0.70
1:AA:437:U:OP1	4:AD:155:LEU:HD22	1.91	0.70
4:AD:8:VAL:HG12	4:AD:21:LEU:HD13	1.73	0.70
13:AM:68:GLY:HA2	13:AM:71:ARG:HB3	1.74	0.70
31:BA:84:A:H61	31:BA:102:G:H1'	1.57	0.70
31:BA:708:C:H5'	31:BA:709:U:OP2	1.92	0.70
31:BA:1430:C:H2'	31:BA:1431:U:C6	2.27	0.70
31:BA:2531:A:H2	31:BA:2658:C:O2	1.75	0.70
33:BD:166:GLN:HE21	33:BD:166:GLN:CA	2.01	0.70
40:BO:43:VAL:HG23	40:BO:56:ASP:O	1.92	0.70
44:BS:38:GLN:HG2	44:BS:47:THR:CG2	2.21	0.70
44:BS:92:TYR:CD1	44:BS:93:LYS:N	2.60	0.70
1:CA:1386:G:C2	1:CA:1387:G:C8	2.80	0.70
4:CD:8:VAL:HG12	4:CD:21:LEU:HD13	1.74	0.70
19:CS:44:MET:HA	19:CS:44:MET:HE3	1.72	0.70
28:D6:36:LEU:HD13	28:D6:50:ARG:CZ	2.22	0.70
31:DA:288:C:H42	31:DA:353:G:H1	1.39	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1497:U:C5'	31:DA:1498:C:C5	2.74	0.70
35:DF:21:ALA:HB3	35:DF:23:ASP:OD2	1.92	0.70
1:AA:180:U:C2'	1:AA:181:G:H5'	2.21	0.70
3:AC:173:VAL:O	3:AC:175:LEU:HD12	1.91	0.70
4:AD:62:GLN:HE22	4:AD:65:ARG:HE	1.36	0.70
22:B0:13:GLY:O	22:B0:14:ARG:CB	2.40	0.70
31:BA:1300:U:H3'	31:BA:1301:A:C5'	2.22	0.70
33:BD:35:LYS:NZ	33:BD:65:ILE:HA	2.06	0.70
41:BP:16:ARG:CD	41:BP:18:ARG:H	1.97	0.70
44:BS:77:ALA:O	44:BS:80:LEU:HD12	1.92	0.70
45:BT:24:PRO:HA	45:BT:49:VAL:HG22	1.74	0.70
48:BW:92:ARG:HG2	48:BW:92:ARG:NH1	1.98	0.70
49:BX:44:GLU:HG3	49:BX:49:VAL:O	1.92	0.70
3:CC:112:SER:O	3:CC:116:VAL:HG23	1.90	0.70
12:CL:75:HIS:HD2	12:CL:77:LEU:H	1.39	0.70
13:CM:81:LEU:HB3	13:CM:89:GLY:HA2	1.74	0.70
27:D5:52:TYR:N	27:D5:52:TYR:CD2	2.60	0.70
31:DA:71:A:H2	49:DX:31:HIS:HE1	1.40	0.70
34:DE:92:THR:H	34:DE:95:ILE:CD1	2.03	0.70
39:DN:66:LYS:HA	39:DN:69:GLN:HB2	1.72	0.70
49:DX:65:ARG:NE	49:DX:66:LEU:N	2.40	0.70
1:AA:555:C:H2'	1:AA:556:C:H6	1.56	0.69
6:AF:16:GLN:CD	6:AF:16:GLN:H	2.00	0.69
31:BA:348:G:C2'	31:BA:349:G:H5"	2.21	0.69
31:BA:1171:G:C8	31:BA:1173:G:H1'	2.27	0.69
31:BA:1300:U:H3'	31:BA:1301:A:H5"	1.74	0.69
32:BB:44:G:H1'	32:BB:47:C:N4	2.07	0.69
36:BG:63:ILE:HA	36:BG:143:GLU:HG3	1.74	0.69
38:BI:83:ALA:HB3	38:BI:144:VAL:HG13	1.73	0.69
50:BY:99:CYS:O	50:BY:99:CYS:SG	2.49	0.69
51:BZ:39:VAL:HG21	51:BZ:44:PHE:HB2	1.72	0.69
1:CA:353:A:H8	1:CA:353:A:H5'	1.56	0.69
1:CA:1346:A:N1	1:CA:1374:A:H5"	2.06	0.69
1:CA:1399:C:C2	1:CA:1502:A:N6	2.59	0.69
1:CA:1446:U:H4'	1:CA:1447:A:N7	2.07	0.69
16:CP:22:THR:HA	16:CP:33:ILE:HG12	1.74	0.69
26:D4:25:TYR:C	26:D4:27:THR:H	1.99	0.69
31:DA:314:A:C2'	31:DA:315:G:H5'	2.22	0.69
31:DA:543:C:N4	31:DA:551:G:H1	1.90	0.69
31:DA:631:A:OP1	41:DP:64:LYS:HE2	1.91	0.69
31:DA:1598:C:H2'	31:DA:1599:C:H6	1.57	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2688:U:C5	31:DA:2720:U:OP2	2.45	0.69
32:DB:79:C:C2'	32:DB:80:U:H5'	2.23	0.69
33:DD:27:THR:CG2	33:DD:28:GLU:H	2.05	0.69
33:DD:35:LYS:HD3	33:DD:63:ARG:CA	2.21	0.69
39:DN:131:GLN:NE2	39:DN:134:ARG:HA	2.06	0.69
45:DT:38:ASN:C	45:DT:38:ASN:HD22	1.99	0.69
1:AA:22:G:H2'	1:AA:23:C:C6	2.27	0.69
1:AA:1238:A:H62	1:AA:1299:A:N6	1.89	0.69
1:AA:1372:U:H5"	9:AI:71:SER:HB3	1.72	0.69
12:AL:24:VAL:HG13	12:AL:98:TYR:CE2	2.27	0.69
12:AL:34:ARG:O	12:AL:61:THR:HG23	1.91	0.69
24:B2:14:ARG:NH1	24:B2:57:ILE:HG22	2.07	0.69
31:BA:528:A:C2	31:BA:2043:C:H4'	2.27	0.69
1:CA:616:G:C2	1:CA:617:G:C8	2.80	0.69
1:CA:688:G:H2'	1:CA:689:C:H6	1.57	0.69
1:CA:763:G:H2'	1:CA:764:C:H6	1.57	0.69
1:CA:1372:U:H5"	9:CI:71:SER:HB3	1.72	0.69
4:CD:28:SER:HB3	4:CD:30:LYS:HG2	1.74	0.69
7:CG:73:MET:HG2	7:CG:90:GLU:HA	1.73	0.69
8:CH:102:ARG:HE	8:CH:102:ARG:N	1.90	0.69
23:D1:34:THR:HG23	31:DA:388:G:OP1	1.91	0.69
24:D2:33:MET:HG2	49:DX:11:PRO:CD	2.22	0.69
31:DA:272:G:H4'	31:DA:272(B):G:OP1	1.92	0.69
31:DA:1973:G:H2'	31:DA:1974:C:C6	2.27	0.69
31:DA:2723:C:H5"	43:DR:2:ARG:HD3	1.72	0.69
31:DA:2790:A:H2'	31:DA:2791:C:C5'	2.22	0.69
33:DD:166:GLN:HA	33:DD:166:GLN:NE2	2.02	0.69
43:DR:4:LEU:C	43:DR:5:LYS:HD2	2.16	0.69
44:DS:38:GLN:HG2	44:DS:47:THR:CG2	2.22	0.69
1:AA:555:C:H2'	1:AA:556:C:C6	2.27	0.69
1:AA:585:G:C4'	12:AL:8:ASN:HD21	1.96	0.69
15:AO:63:ARG:NH1	15:AO:87:ILE:HD13	2.07	0.69
31:BA:588:U:H2'	31:BA:589:C:C6	2.26	0.69
31:BA:2236:C:C2'	31:BA:2237:G:H5'	2.22	0.69
31:BA:2658:C:O2	31:BA:2658:C:H2'	1.91	0.69
35:BF:52:LYS:CG	35:BF:56:GLU:HB3	2.23	0.69
38:BI:2:LYS:HB2	38:BI:39:ALA:CB	2.22	0.69
50:BY:37:VAL:HG23	50:BY:67:LEU:HB3	1.72	0.69
1:CA:266:G:H5"	1:CA:268:C:H41	1.56	0.69
1:CA:544:G:H2'	1:CA:545:C:H6	1.57	0.69
7:CG:113:GLU:HB2	7:CG:119:ARG:CG	2.22	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:D1:65:SER:H	23:D1:67:ILE:HD11	1.58	0.69
29:D7:7:PRO:HB2	31:DA:1309:G:H4'	1.72	0.69
31:DA:910:A:C5	42:DQ:13:GLN:HG3	2.28	0.69
31:DA:1839:G:N7	31:DA:1927:A:H1'	2.07	0.69
1:AA:659:U:C2'	1:AA:660:G:H5'	2.23	0.69
1:AA:1446:U:H4'	1:AA:1447:A:N7	2.07	0.69
2:AB:21:ARG:HB3	2:AB:39:ILE:HA	1.73	0.69
23:B1:56:GLN:HA	23:B1:56:GLN:OE1	1.93	0.69
28:B6:10:LEU:H	28:B6:10:LEU:CD2	2.06	0.69
31:BA:587:C:H4'	31:BA:588:U:OP2	1.91	0.69
31:BA:2476:A:H2'	31:BA:2477:C:H5"	1.74	0.69
35:BF:34:TRP:CZ2	41:BP:12:ALA:HB2	2.27	0.69
37:BH:91:GLY:C	37:BH:92:ILE:HG13	2.18	0.69
46:BU:8:VAL:HG11	46:BU:12:ARG:CZ	2.22	0.69
1:CA:66:G:H4'	1:CA:173:U:C5	2.27	0.69
1:CA:1162:C:H2'	1:CA:1163:C:C6	2.28	0.69
3:CC:50:ALA:HB1	3:CC:70:VAL:HG11	1.73	0.69
10:CJ:8:LEU:HG	10:CJ:96:ILE:HG22	1.74	0.69
16:CP:53:VAL:O	16:CP:57:ARG:HG2	1.92	0.69
23:D1:85:LEU:HB3	23:D1:87:PRO:CD	2.19	0.69
30:D8:32:LEU:H	30:D8:32:LEU:HD13	1.57	0.69
31:DA:244:A:C2	31:DA:255:A:C4	2.80	0.69
31:DA:309:G:H4'	50:DY:18:GLY:HA3	1.74	0.69
31:DA:1719:G:H2'	31:DA:1720:U:H5'	1.72	0.69
32:DB:21:G:HO2'	32:DB:22:U:H6	1.39	0.69
33:DD:267:SER:C	33:DD:269:PHE:N	2.48	0.69
39:DN:13:TRP:HZ3	39:DN:130:HIS:CE1	2.10	0.69
47:DV:1:MET:HE3	47:DV:44:LYS:CB	2.15	0.69
50:DY:96:ILE:HG21	50:DY:99:CYS:CB	2.21	0.69
1:AA:441:A:H3'	1:AA:442:C:H6	1.58	0.69
1:AA:674:G:H2'	1:AA:675:A:H8	1.57	0.69
1:AA:749:C:O2'	1:AA:750:G:H5'	1.92	0.69
5:AE:57:LYS:O	5:AE:61:TYR:HD2	1.75	0.69
31:BA:2544:G:H8	31:BA:2544:G:O5'	1.75	0.69
41:BP:30:THR:HG22	41:BP:31:ALA:N	2.03	0.69
42:BQ:140:ALA:HB1	51:BZ:99:TYR:HB2	1.73	0.69
42:BQ:141:GLN:HG2	51:BZ:71:VAL:O	1.92	0.69
4:CD:133:VAL:HG11	4:CD:138:TYR:CD1	2.28	0.69
10:CJ:63:PHE:HZ	14:CN:45:ARG:HG3	1.58	0.69
23:D1:85:LEU:CB	23:D1:87:PRO:HD3	2.19	0.69
24:D2:49:LYS:CD	24:D2:53:LEU:HD22	2.22	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D5:46:CYS:SG	27:D5:47:PRO:HG2	2.32	0.69
31:DA:151:C:O2'	31:DA:152:G:H5'	1.91	0.69
31:DA:661:C:H4'	41:DP:16:ARG:HH12	1.56	0.69
31:DA:867:C:C5	31:DA:868:U:C5	2.81	0.69
31:DA:1777:U:O2'	31:DA:1778:U:H5'	1.92	0.69
31:DA:2472:G:H5"	31:DA:2472:G:H8	1.57	0.69
33:DD:27:THR:CG2	33:DD:28:GLU:N	2.55	0.69
35:DF:22:ALA:O	35:DF:26:ALA:HB2	1.92	0.69
42:DQ:42:ILE:HD13	42:DQ:97:VAL:CG2	2.21	0.69
47:DV:28:GLU:CG	47:DV:29:PRO:HD3	2.22	0.69
1:AA:542:G:H5'	4:AD:41:GLY:HA3	1.74	0.69
1:AA:820:U:H4'	1:AA:821:G:OP2	1.93	0.69
5:AE:139:LEU:HA	5:AE:142:LEU:HD12	1.72	0.69
7:AG:113:GLU:HB2	7:AG:119:ARG:CG	2.23	0.69
10:AJ:51:ARG:HE	10:AJ:61:GLU:HB2	1.58	0.69
27:B5:4:HIS:HB3	27:B5:5:PRO:HD3	1.74	0.69
31:BA:70:G:H21	31:BA:71:A:H62	1.39	0.69
31:BA:661:C:H4'	41:BP:16:ARG:HH12	1.57	0.69
31:BA:2094:G:OP1	38:BI:22:LYS:HD3	1.90	0.69
33:BD:35:LYS:HZ3	33:BD:104:TYR:HB2	1.55	0.69
33:BD:158:ALA:O	33:BD:159:ALA:CB	2.40	0.69
41:BP:13:ASN:C	41:BP:13:ASN:HD22	1.98	0.69
47:BV:53:GLU:O	47:BV:55:ALA:N	2.25	0.69
47:BV:72:VAL:CA	47:BV:88:ARG:HH22	2.06	0.69
1:CA:920:U:H2'	1:CA:921:U:C6	2.26	0.69
1:CA:983:A:H2	1:CA:984:C:C6	2.11	0.69
6:CF:17:SER:O	6:CF:21:LEU:HD22	1.93	0.69
11:CK:52:GLY:H	11:CK:55:LYS:HG3	1.57	0.69
15:CO:67:LEU:HD22	15:CO:78:TYR:HE1	1.57	0.69
17:CQ:6:LEU:HD13	17:CQ:23:VAL:HG11	1.75	0.69
23:D1:56:GLN:HA	23:D1:56:GLN:OE1	1.92	0.69
31:DA:901:A:H5'	31:DA:902:C:OP2	1.93	0.69
31:DA:2205:C:O2	31:DA:2220:G:C2	2.46	0.69
34:DE:34:VAL:CG2	34:DE:48:GLN:HE21	2.03	0.69
43:DR:42:LYS:HA	43:DR:45:ARG:HD2	1.74	0.69
1:AA:41:G:H2'	1:AA:42:G:C8	2.27	0.69
1:AA:804:U:H5"	1:AA:805:C:OP2	1.92	0.69
6:AF:63:TYR:N	6:AF:63:TYR:CD2	2.52	0.69
23:B1:22:GLY:HA2	23:B1:38:SER:O	1.91	0.69
24:B2:26:ARG:CZ	24:B2:29:LYS:HE2	2.22	0.69
27:B5:33:CYS:SG	27:B5:49:CYS:CB	2.81	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:71:A:H5'	31:BA:71:A:C8	2.28	0.69
31:BA:901:A:H5'	31:BA:902:C:OP2	1.93	0.69
31:BA:1882:C:O2	31:BA:1882:C:H2'	1.91	0.69
35:BF:9:ILE:HG12	35:BF:14:PRO:C	2.17	0.69
36:BG:47:LYS:HD3	36:BG:81:LYS:HD2	1.73	0.69
37:BH:157:TYR:CE1	37:BH:171:LEU:N	2.59	0.69
45:BT:60:THR:HG22	45:BT:77:PRO:HA	1.73	0.69
1:CA:539:A:H2'	1:CA:540:G:C8	2.27	0.69
3:CC:130:VAL:O	3:CC:134:ILE:HG12	1.92	0.69
13:CM:10:PRO:HB2	13:CM:18:ALA:HB1	1.75	0.69
31:DA:1188:U:O2'	31:DA:1189:A:H5'	1.92	0.69
31:DA:1341:U:H2'	31:DA:1397:U:O2	1.92	0.69
31:DA:1529:G:N2	31:DA:1530:C:H5"	2.05	0.69
31:DA:2267:A:H5"	31:DA:2268:A:H5'	1.74	0.69
31:DA:2404:C:H2'	31:DA:2405:G:H5'	1.75	0.69
31:DA:2781:A:H5'	31:DA:2782:G:H5'	1.75	0.69
33:DD:221:VAL:HG22	33:DD:226:MET:CE	2.23	0.69
35:DF:52:LYS:CG	35:DF:56:GLU:HB3	2.23	0.69
39:DN:40:PRO:HA	46:DU:64:ARG:NH2	2.08	0.69
1:AA:33:A:H2'	1:AA:34:C:C6	2.27	0.69
1:AA:102:G:C5	1:AA:103:C:C5	2.81	0.69
23:B1:94:LEU:HD22	23:B1:95:LEU:O	1.93	0.69
24:B2:47:ASN:ND2	24:B2:48:HIS:H	1.91	0.69
31:BA:102:G:O2'	31:BA:103:A:P	2.51	0.69
31:BA:151:C:O2'	31:BA:152:G:H5'	1.93	0.69
31:BA:286:C:H2'	31:BA:287:C:H5'	1.75	0.69
31:BA:811:U:H3'	41:BP:25:SER:O	1.92	0.69
31:BA:1022:G:N2	31:BA:1142(A):A:H2	1.80	0.69
31:BA:1464:C:O2'	31:BA:1528:A:H8	1.72	0.69
31:BA:2243:U:O2'	31:BA:2244:U:H5'	1.92	0.69
31:BA:2307:G:C2	31:BA:2308:G:H5'	2.28	0.69
33:BD:16:MET:HE1	33:BD:208:LYS:HE3	1.75	0.69
36:BG:18:GLU:O	36:BG:22:ARG:HB2	1.93	0.69
36:BG:115:ARG:NH1	36:BG:136:ARG:HG3	2.08	0.69
47:BV:28:GLU:CG	47:BV:29:PRO:HD3	2.22	0.69
50:BY:96:ILE:HG21	50:BY:99:CYS:SG	2.33	0.69
50:BY:97:ARG:HH21	50:BY:98:VAL:HG21	1.58	0.69
1:CA:159:G:H2'	1:CA:161:A:OP2	1.93	0.69
1:CA:365:U:H5"	1:CA:366:C:OP1	1.93	0.69
1:CA:437:U:OP1	4:CD:155:LEU:HD22	1.92	0.69
1:CA:542:G:H5'	4:CD:41:GLY:HA3	1.75	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1054:C:O2'	1:CA:1055:A:H5"	1.93	0.69
1:CA:1442:G:C8	1:CA:1442(B):A:C2	2.81	0.69
3:CC:173:VAL:O	3:CC:175:LEU:HD12	1.92	0.69
10:CJ:8:LEU:HD22	10:CJ:20:ALA:HB2	1.75	0.69
18:CR:45:SER:H	18:CR:51:LEU:HD11	1.58	0.69
23:D1:67:ILE:N	23:D1:68:PRO:HD2	2.08	0.69
24:D2:14:ARG:NH1	24:D2:57:ILE:HG22	2.08	0.69
24:D2:15:LYS:O	24:D2:16:LEU:CB	2.40	0.69
24:D2:33:MET:HG2	49:DX:11:PRO:HD2	1.75	0.69
28:D6:25:LYS:O	31:DA:2286:A:H2	1.75	0.69
29:D7:16:HIS:HB2	29:D7:44:PRO:HG2	1.73	0.69
31:DA:142:A:H1'	31:DA:1408:C:O4'	1.92	0.69
31:DA:971:C:H2'	31:DA:972:G:H5'	1.73	0.69
31:DA:1472:A:O2'	31:DA:1473:G:H5'	1.92	0.69
31:DA:2335:A:C8	31:DA:2337:G:C5	2.81	0.69
34:DE:203:LYS:O	34:DE:203:LYS:HD2	1.93	0.69
46:DU:88:ILE:C	46:DU:90:VAL:H	1.99	0.69
47:DV:79:VAL:HG23	47:DV:82:ARG:HD2	1.74	0.69
50:DY:76:CYS:O	50:DY:99:CYS:SG	2.51	0.69
1:AA:544:G:H2'	1:AA:545:C:H6	1.57	0.69
5:AE:68:GLU:O	5:AE:68:GLU:HG3	1.93	0.69
31:BA:143:G:H1'	49:BX:38:GLU:HG3	1.74	0.69
31:BA:271(O):C:O2'	31:BA:271(P):C:C5	2.43	0.69
31:BA:1190:G:H5'	41:BP:35:HIS:HA	1.74	0.69
31:BA:2475:C:C5'	31:BA:2476:A:OP2	2.41	0.69
33:BD:270:ILE:O	33:BD:270:ILE:HD12	1.93	0.69
34:BE:111:ARG:NH1	43:BR:2:ARG:HH21	1.91	0.69
40:BO:64:ARG:HG2	40:BO:79:PHE:CG	2.28	0.69
41:BP:10:PRO:CD	41:BP:11:GLY:H	2.04	0.69
45:BT:56:GLY:O	45:BT:59:THR:CG2	2.41	0.69
45:BT:106:SER:C	45:BT:107:ASP:OD1	2.36	0.69
45:BT:129:ARG:CZ	45:BT:131:ALA:HB3	2.23	0.69
1:CA:377:G:O2'	1:CA:378:G:H5'	1.93	0.69
1:CA:1162:C:H2'	1:CA:1163:C:H6	1.58	0.69
1:CA:1446:U:O2'	1:CA:1447:A:H8	1.76	0.69
6:CF:62:TRP:CH2	6:CF:64:GLN:HB2	2.28	0.69
31:DA:2887:U:H2'	31:DA:2888:C:C6	2.28	0.69
33:DD:143:HIS:HD2	33:DD:144:ALA:HB2	1.58	0.69
42:DQ:29:PHE:O	42:DQ:30:GLY:O	2.11	0.69
49:DX:35:THR:O	49:DX:36:LYS:O	2.10	0.69
1:AA:1346:A:N1	1:AA:1374:A:H5"	2.06	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:B2:33:MET:HG2	49:BX:11:PRO:CD	2.23	0.69
31:BA:251:A:H5”	41:BP:51:PHE:HZ	1.58	0.69
31:BA:1280:G:H2’	31:BA:1281:G:H5”	1.74	0.69
31:BA:1639:U:C2’	31:BA:1640:C:H5”	2.23	0.69
31:BA:2360:A:O2’	31:BA:2361:A:P	2.50	0.69
31:BA:2652:C:O2’	31:BA:2653:U:H5’	1.93	0.69
38:BI:38:LEU:H	38:BI:38:LEU:HD12	1.57	0.69
45:BT:3:ARG:HB2	45:BT:6:LEU:CB	2.22	0.69
1:CA:1090:U:H2’	1:CA:1091:U:C6	2.26	0.69
1:CA:1169:A:H2’	1:CA:1170:A:H8	1.57	0.69
9:CI:45:ALA:O	9:CI:48:GLU:HB2	1.92	0.69
30:D8:4:MET:HE2	31:DA:592:G:N3	2.07	0.69
31:DA:1300:U:H3’	31:DA:1301:A:C5’	2.21	0.69
31:DA:1450(A):C:N4	31:DA:1451:C:H41	1.91	0.69
31:DA:2022:U:O2’	31:DA:2617:C:H5’	1.93	0.69
31:DA:2761:G:H2’	31:DA:2762:G:H5”	1.74	0.69
32:DB:74:U:C3’	32:DB:75:G:H5”	2.23	0.69
41:DP:35:HIS:O	41:DP:36:LYS:HG3	1.93	0.69
42:DQ:89:ASN:O	42:DQ:91:GLU:N	2.26	0.69
46:DU:83:LEU:C	46:DU:88:ILE:HD11	2.18	0.69
1:AA:460:G:O6	1:AA:470:C:H5”	1.93	0.68
3:AC:130:VAL:O	3:AC:134:ILE:HG12	1.92	0.68
19:AS:63:THR:O	19:AS:66:MET:HG2	1.93	0.68
31:BA:2790:A:H2’	31:BA:2791:C:C5’	2.22	0.68
33:BD:132:PRO:HG3	33:BD:190:TYR:CE1	2.28	0.68
37:BH:89:ILE:O	37:BH:90:LYS:HG2	1.93	0.68
47:BV:69:LYS:CG	47:BV:70:ILE:H	1.99	0.68
47:BV:85:LYS:C	47:BV:87:HIS:H	1.99	0.68
1:CA:192:U:O4’	20:CT:103:GLY:HA2	1.93	0.68
1:CA:662:G:H2’	1:CA:663:A:C8	2.28	0.68
1:CA:749:C:O2’	1:CA:750:G:H5’	1.93	0.68
23:D1:26:ARG:HB2	23:D1:34:THR:HA	1.75	0.68
31:DA:84:A:H61	31:DA:102:G:H1’	1.57	0.68
31:DA:971:C:C2’	31:DA:972:G:H5’	2.24	0.68
31:DA:1693:U:H4’	31:DA:1694:C:OP2	1.93	0.68
33:DD:255:LYS:H	33:DD:255:LYS:HZ2	1.41	0.68
39:DN:14:VAL:HA	39:DN:135:PRO:HD2	1.74	0.68
43:DR:118:GLU:HA	43:DR:118:GLU:OE1	1.92	0.68
47:DV:79:VAL:CG2	47:DV:82:ARG:HD2	2.23	0.68
1:AA:189(B):C:H42	1:AA:189(I):G:H1	1.40	0.68
2:AB:77:ALA:HA	2:AB:80:ILE:HD11	1.76	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:91:VAL:HG11	18:AR:72:ARG:NH1	2.08	0.68
31:BA:2657:A:H5'	31:BA:2658:C:OP2	1.93	0.68
35:BF:39:TRP:O	35:BF:43:LYS:HG2	1.93	0.68
44:BS:17:ARG:HA	44:BS:20:ARG:HG2	1.75	0.68
46:BU:55:ARG:HA	46:BU:58:ARG:HD2	1.75	0.68
1:CA:392:G:H2'	1:CA:393:A:H8	1.59	0.68
1:CA:1116:C:H3'	1:CA:1117:G:H5"	1.75	0.68
1:CA:1225:A:H2'	1:CA:1225:A:N3	2.09	0.68
1:CA:1446:U:O2'	1:CA:1447:A:C8	2.46	0.68
3:CC:73:PRO:O	3:CC:76:VAL:HG22	1.93	0.68
31:DA:102:G:O2'	31:DA:103:A:P	2.51	0.68
32:DB:66:A:C5	32:DB:109:C:C5	2.81	0.68
37:DH:13:LYS:HE2	37:DH:13:LYS:HA	1.74	0.68
43:DR:116:LEU:O	43:DR:117:VAL:HB	1.93	0.68
46:DU:28:ARG:HG2	46:DU:38:THR:OG1	1.93	0.68
49:DX:23:GLU:CG	49:DX:24:GLY:H	2.07	0.68
1:AA:392:G:H2'	1:AA:393:A:H8	1.58	0.68
31:BA:528:A:O2'	31:BA:529:A:H5'	1.93	0.68
31:BA:1028:A:N6	31:BA:1125:G:H2'	2.08	0.68
31:BA:1719:G:H2'	31:BA:1720:U:H5'	1.74	0.68
35:BF:18:ARG:HG2	35:BF:19:GLU:N	2.01	0.68
37:BH:85:LYS:CE	37:BH:145:ALA:HB2	2.21	0.68
39:BN:18:ALA:HB3	39:BN:26:LEU:CD2	2.23	0.68
39:BN:39:ARG:CD	39:BN:41:ASP:HB2	2.22	0.68
41:BP:17:LYS:O	41:BP:17:LYS:CG	2.42	0.68
43:BR:11:ASN:CG	43:BR:12:ARG:H	2.00	0.68
1:CA:585:G:C4'	12:CL:8:ASN:HD21	1.97	0.68
1:CA:1289:A:H3'	1:CA:1290:G:H8	1.59	0.68
3:CC:71:ALA:HA	3:CC:106:VAL:HB	1.75	0.68
12:CL:102:ARG:HG3	12:CL:102:ARG:NH1	2.06	0.68
31:DA:2236:C:C2'	31:DA:2237:G:H5'	2.24	0.68
31:DA:2657:A:H5'	31:DA:2658:C:OP2	1.93	0.68
33:DD:16:MET:HE1	33:DD:208:LYS:HE3	1.76	0.68
33:DD:58:HIS:HD2	33:DD:59:LYS:O	1.76	0.68
36:DG:23:PHE:HZ	36:DG:171:ALA:HB3	1.59	0.68
41:DP:38:GLN:CG	41:DP:39:LYS:H	2.05	0.68
41:DP:144:GLU:N	41:DP:145:PRO:HD3	2.07	0.68
42:DQ:134:ARG:HH21	51:DZ:122:ARG:HD2	1.58	0.68
47:DV:5:VAL:CG2	47:DV:36:PRO:HB2	2.23	0.68
49:DX:35:THR:O	49:DX:36:LYS:C	2.36	0.68
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.57	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1289:A:H3'	1:AA:1290:G:H8	1.59	0.68
7:AG:146:GLU:HA	7:AG:149:ARG:HB2	1.76	0.68
13:AM:81:LEU:HB3	13:AM:89:GLY:HA2	1.76	0.68
16:AP:53:VAL:HG12	16:AP:79:VAL:HG22	1.74	0.68
27:B5:51:TYR:HD2	27:B5:52:TYR:CZ	2.10	0.68
31:BA:1341:U:OP2	31:BA:1394:U:O2'	2.10	0.68
31:BA:1568:G:P	33:BD:63:ARG:HH22	2.16	0.68
38:BI:88:ILE:HD11	38:BI:123:LEU:HD23	1.75	0.68
41:BP:144:GLU:N	41:BP:145:PRO:HD3	2.07	0.68
44:BS:95:HIS:CG	44:BS:96:GLY:N	2.61	0.68
1:CA:598:U:H4'	8:CH:94:TYR:CD2	2.29	0.68
12:CL:24:VAL:HG13	12:CL:98:TYR:HE2	1.56	0.68
22:D0:25:ARG:HD2	22:D0:29:GLN:HE21	1.58	0.68
29:D7:35:ARG:HG3	29:D7:42:LEU:HD11	1.75	0.68
31:DA:27:G:N2	31:DA:512:G:H1'	2.08	0.68
31:DA:717:G:H2'	31:DA:718:A:O4'	1.93	0.68
31:DA:1185:C:H5"	31:DA:1186:G:OP1	1.93	0.68
31:DA:1464:C:O2'	31:DA:1528:A:H8	1.72	0.68
36:DG:47:LYS:HD3	36:DG:81:LYS:HD2	1.74	0.68
44:DS:16:ASN:C	44:DS:17:ARG:O	2.36	0.68
50:DY:95:LYS:HE2	50:DY:101:LYS:HA	1.75	0.68
1:AA:950:U:H2'	1:AA:951:G:H8	1.57	0.68
1:AA:1442(A):G:H8	45:BT:118:ARG:NH1	1.92	0.68
2:AB:74:LYS:NZ	2:AB:76:GLN:HB2	2.08	0.68
13:AM:10:PRO:HB2	13:AM:18:ALA:HB1	1.74	0.68
28:B6:11:LEU:HD23	28:B6:26:ASN:H	1.58	0.68
31:BA:2781:A:H5'	31:BA:2782:G:H5'	1.76	0.68
33:BD:28:GLU:HB2	33:BD:29:PRO:HD3	1.74	0.68
50:BY:96:ILE:CG2	50:BY:99:CYS:HB3	2.22	0.68
8:CH:86:ILE:HG22	8:CH:87:SER:N	2.06	0.68
12:CL:6:THR:H	12:CL:9:GLN:HE21	1.40	0.68
31:DA:196:A:O4'	41:DP:46:LYS:HE2	1.93	0.68
31:DA:1614:A:N1	48:DW:91:GLY:HA2	2.07	0.68
31:DA:2531:A:H2	31:DA:2658:C:O2	1.76	0.68
49:DX:21:PHE:N	49:DX:21:PHE:HD1	1.90	0.68
1:AA:386:C:O2'	1:AA:387:U:H5'	1.92	0.68
1:AA:983:A:H2	1:AA:984:C:C6	2.12	0.68
1:AA:1118:C:H1'	1:AA:1179:A:C4	2.29	0.68
1:AA:1386:G:C2	1:AA:1387:G:C8	2.81	0.68
3:AC:112:SER:O	3:AC:116:VAL:HG23	1.93	0.68
4:AD:62:GLN:HA	4:AD:62:GLN:NE2	2.09	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:59:ILE:HG22	17:AQ:71:PHE:HD1	1.58	0.68
17:AQ:70:ARG:O	17:AQ:71:PHE:CD2	2.47	0.68
24:B2:56:GLN:H	24:B2:56:GLN:NE2	1.91	0.68
28:B6:46:HIS:HA	28:B6:47:THR:N	2.09	0.68
30:B8:51:ALA:HA	30:B8:54:GLU:OE1	1.93	0.68
31:BA:639:U:H2'	31:BA:640:C:C6	2.29	0.68
31:BA:1826:G:C4'	33:BD:242:ARG:HH21	2.04	0.68
31:BA:2186:G:C3'	31:BA:2187:G:H5"	2.24	0.68
31:BA:2752:C:H2'	31:BA:2752:C:O2	1.92	0.68
33:BD:132:PRO:O	33:BD:136:ILE:HD12	1.93	0.68
37:BH:13:LYS:HE2	37:BH:13:LYS:HA	1.76	0.68
50:BY:28:LYS:HA	50:BY:38:ILE:HG22	1.76	0.68
7:CG:146:GLU:HA	7:CG:149:ARG:HB2	1.75	0.68
12:CL:87:GLY:HA2	12:CL:98:TYR:HA	1.75	0.68
16:CP:53:VAL:HG12	16:CP:79:VAL:HG22	1.76	0.68
27:D5:33:CYS:SG	27:D5:49:CYS:CB	2.82	0.68
37:DH:32:GLU:O	37:DH:33:LEU:HD23	1.93	0.68
37:DH:157:TYR:CE1	37:DH:171:LEU:N	2.61	0.68
44:DS:36:TYR:N	44:DS:36:TYR:CD1	2.54	0.68
46:DU:104:GLN:CD	46:DU:104:GLN:H	2.02	0.68
51:DZ:53:ILE:HG22	51:DZ:71:VAL:HB	1.75	0.68
1:AA:192:U:H2'	1:AA:193:C:C6	2.29	0.68
6:AF:89:MET:HG2	6:AF:91:VAL:HG23	1.75	0.68
24:B2:47:ASN:HD22	24:B2:48:HIS:H	1.42	0.68
28:B6:19:ARG:CG	28:B6:20:ASN:H	2.03	0.68
31:BA:910:A:C5	42:BQ:13:GLN:HG3	2.27	0.68
31:BA:1022:G:N2	31:BA:1142(A):A:C2	2.57	0.68
31:BA:2598:A:P	33:BD:236:GLY:HA3	2.34	0.68
47:BV:82:ARG:CG	47:BV:82:ARG:NH1	2.44	0.68
50:BY:96:ILE:CD1	50:BY:99:CYS:SG	2.82	0.68
1:CA:271:C:H2'	1:CA:272:C:H6	1.59	0.68
1:CA:560:U:H4'	1:CA:561:U:O5'	1.91	0.68
31:DA:2106:G:H1'	31:DA:2184:G:H22	1.59	0.68
31:DA:2206:G:N2	31:DA:2207:G:C5'	2.51	0.68
33:DD:30:GLU:CD	33:DD:63:ARG:HE	2.02	0.68
39:DN:18:ALA:HB3	39:DN:26:LEU:CD2	2.21	0.68
40:DO:35:VAL:HA	40:DO:62:VAL:HG12	1.75	0.68
1:AA:409:G:H2'	1:AA:410:G:C5'	2.24	0.68
1:AA:430:A:OP2	4:AD:8:VAL:HG23	1.92	0.68
1:AA:598:U:H4'	8:AH:94:TYR:CD2	2.29	0.68
31:BA:146:G:H5'	31:BA:146:G:C8	2.27	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:786:C:H2'	31:BA:787:U:H5'	1.76	0.68
31:BA:991:C:H5'	31:BA:991:C:H6	1.58	0.68
31:BA:1141:U:H2'	39:BN:63:THR:HG21	1.76	0.68
31:BA:2562:U:H1'	40:BO:23:ARG:HH11	1.59	0.68
34:BE:52:LEU:HB2	34:BE:76:ARG:HB2	1.76	0.68
39:BN:89:LYS:O	39:BN:93:THR:HG22	1.93	0.68
49:BX:73:ARG:N	49:BX:74:PRO:CD	2.57	0.68
5:CE:71:LEU:O	5:CE:72:GLN:HG3	1.93	0.68
6:CF:16:GLN:CD	6:CF:16:GLN:H	2.02	0.68
28:D6:16:CYS:C	28:D6:18:ARG:HE	2.01	0.68
28:D6:46:HIS:HA	28:D6:47:THR:N	2.08	0.68
31:DA:626:U:N3	41:DP:105:LEU:HG	2.08	0.68
31:DA:769:G:C2'	31:DA:770:G:H5'	2.24	0.68
31:DA:860:U:C5	31:DA:917:A:N7	2.62	0.68
31:DA:2347:C:H2'	31:DA:2348:U:C6	2.29	0.68
41:DP:10:PRO:CD	41:DP:11:GLY:H	2.06	0.68
44:DS:14:VAL:CG1	44:DS:15:ARG:H	2.05	0.68
45:DT:3:ARG:HB2	45:DT:6:LEU:CB	2.22	0.68
45:DT:32:TYR:CD2	45:DT:32:TYR:N	2.60	0.68
49:DX:24:GLY:O	49:DX:25:LYS:O	2.11	0.68
6:AF:17:SER:O	6:AF:21:LEU:HD22	1.94	0.68
31:BA:993:G:H1'	47:BV:91:TYR:CD1	2.29	0.68
31:BA:1292:U:H2'	31:BA:1293:C:H6	1.54	0.68
31:BA:1472:A:O2'	31:BA:1473:G:H5'	1.94	0.68
31:BA:1527:G:H5"	31:BA:1528:A:OP1	1.94	0.68
31:BA:1670:C:O2	34:BE:129:HIS:HE1	1.77	0.68
31:BA:2094:G:H5'	38:BI:25:TYR:CD2	2.29	0.68
31:BA:2310:A:O2'	31:BA:2311:A:H5"	1.94	0.68
31:BA:2655:G:H2'	31:BA:2655:G:N3	2.08	0.68
36:BG:25:TYR:CZ	36:BG:32:PRO:HD3	2.29	0.68
41:BP:51:PHE:HB3	41:BP:52:GLU:CG	2.23	0.68
43:BR:33:ARG:HG2	43:BR:115:GLU:CG	2.24	0.68
47:BV:62:LEU:HD22	47:BV:98:GLU:CB	2.24	0.68
49:BX:33:LYS:C	49:BX:35:THR:HG22	2.19	0.68
1:CA:460:G:O6	1:CA:470:C:H5"	1.94	0.68
4:CD:26:CYS:SG	53:CD:301:ZN:ZN	1.82	0.68
7:CG:47:CYS:O	7:CG:50:ILE:HB	1.93	0.68
31:DA:848:G:N3	31:DA:933:A:H1'	2.08	0.68
31:DA:1568:G:H21	33:DD:58:HIS:CE1	2.12	0.68
31:DA:2572:A:C8	34:DE:144:ARG:HD2	2.29	0.68
31:DA:2652:C:O2'	31:DA:2653:U:H5'	1.93	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DD:160:GLY:H	33:DD:197:GLY:H	1.42	0.68
42:DQ:140:ALA:HB1	51:DZ:99:TYR:HB2	1.76	0.68
42:DQ:141:GLN:HE22	51:DZ:89:PHE:HB3	1.59	0.68
44:DS:77:ALA:O	44:DS:80:LEU:HD12	1.94	0.68
45:DT:19:LEU:HD13	45:DT:85:LYS:HD2	1.75	0.68
45:DT:102:ILE:HB	45:DT:110:ILE:CD1	2.24	0.68
46:DU:83:LEU:HB3	46:DU:88:ILE:HD11	1.76	0.68
50:DY:35:TYR:CD2	50:DY:69:ALA:HB3	2.29	0.68
1:AA:373:A:H2'	1:AA:374:A:H8	1.59	0.68
1:AA:1225:A:H2'	1:AA:1225:A:N3	2.07	0.68
1:AA:1446:U:O2'	1:AA:1447:A:H8	1.77	0.68
2:AB:29:ALA:O	2:AB:32:ILE:HG22	1.93	0.68
15:AO:4:THR:OG1	15:AO:7:GLU:HB2	1.94	0.68
31:BA:34:C:C2'	31:BA:35:G:OP1	2.42	0.68
31:BA:1332:G:H5"	31:BA:1332:G:H8	1.56	0.68
31:BA:1862:G:O2'	31:BA:1863:G:H5'	1.94	0.68
31:BA:2205:C:O2	31:BA:2220:G:C2	2.46	0.68
48:BW:6:ILE:HA	48:BW:103:ILE:O	1.93	0.68
50:BY:97:ARG:HH21	50:BY:98:VAL:CG2	2.07	0.68
1:CA:663:A:O2'	1:CA:664:G:H5'	1.94	0.68
1:CA:1128:C:H5'	9:CI:16:ARG:HH12	1.59	0.68
4:CD:18:LYS:HE3	4:CD:31:CYS:SG	2.34	0.68
15:CO:81:LEU:HD11	15:CO:85:LEU:HD12	1.76	0.68
30:D8:52:LYS:N	30:D8:53:PRO:CD	2.57	0.68
33:DD:27:THR:CG2	33:DD:83:GLU:HG2	2.14	0.68
33:DD:166:GLN:HE21	33:DD:166:GLN:CA	1.99	0.68
34:DE:132:HIS:CG	34:DE:135:HIS:NE2	2.62	0.68
39:DN:40:PRO:CA	46:DU:64:ARG:HH22	2.07	0.68
43:DR:37:THR:OG1	43:DR:40:LYS:HG3	1.93	0.68
47:DV:64:HIS:HB3	47:DV:96:ILE:HG12	1.76	0.68
51:DZ:151:HIS:HB3	51:DZ:170:THR:CA	2.07	0.68
1:AA:159:G:H2'	1:AA:161:A:OP2	1.94	0.67
1:AA:1090:U:H2'	1:AA:1091:U:C6	2.26	0.67
1:AA:1162:C:H2'	1:AA:1163:C:H6	1.58	0.67
1:AA:1442:G:C8	1:AA:1442(B):A:C2	2.82	0.67
11:AK:13:GLN:HB3	11:AK:75:TYR:O	1.93	0.67
11:AK:48:ILE:HG21	11:AK:63:LEU:HD13	1.76	0.67
28:B6:39:TYR:HB3	28:B6:49:HIS:ND1	2.09	0.67
30:B8:32:LEU:CB	30:B8:35:GLN:N	2.43	0.67
31:BA:1779:U:H6	31:BA:1784:A:H62	1.41	0.67
34:BE:65:GLY:C	34:BE:67:PHE:H	2.01	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BN:18:ALA:CB	39:BN:26:LEU:HD22	2.24	0.67
39:BN:40:PRO:HA	46:BU:64:ARG:NH2	2.08	0.67
40:BO:104:ARG:NH2	45:BT:33:LYS:HD2	2.08	0.67
41:BP:10:PRO:HD2	41:BP:11:GLY:H	1.57	0.67
41:BP:17:LYS:O	41:BP:19:VAL:N	2.26	0.67
46:BU:104:GLN:H	46:BU:104:GLN:CD	2.01	0.67
1:CA:17:U:H2'	1:CA:18:C:H6	1.58	0.67
17:CQ:70:ARG:O	17:CQ:71:PHE:CD2	2.46	0.67
27:D5:47:PRO:O	27:D5:48:GLU:HG3	1.94	0.67
31:DA:864:G:C6	31:DA:865:C:N4	2.62	0.67
31:DA:1472:A:C2'	31:DA:1473:G:H5'	2.24	0.67
31:DA:1862:G:O2'	31:DA:1863:G:H5'	1.93	0.67
31:DA:2444:G:OP2	35:DF:68:LYS:HE2	1.94	0.67
33:DD:254:THR:N	33:DD:255:LYS:HZ1	1.92	0.67
43:DR:11:ASN:CG	43:DR:12:ARG:H	2.02	0.67
1:AA:35:G:H2'	1:AA:36:C:C6	2.29	0.67
3:AC:71:ALA:HA	3:AC:106:VAL:HB	1.75	0.67
6:AF:86:ARG:O	6:AF:87:ARG:HG2	1.94	0.67
23:B1:46:LEU:H	23:B1:46:LEU:CD1	1.98	0.67
28:B6:28:ARG:HA	28:B6:32:ASN:HD22	1.57	0.67
30:B8:32:LEU:HD13	30:B8:32:LEU:H	1.60	0.67
31:BA:143:G:H2'	31:BA:143(A):C:C6	2.27	0.67
31:BA:196:A:O4'	41:BP:46:LYS:HE2	1.94	0.67
31:BA:543:C:N4	31:BA:551:G:H1	1.93	0.67
31:BA:1879:C:C2'	31:BA:1880:C:H5"	2.23	0.67
31:BA:2859:G:H3'	31:BA:2859:G:C8	2.29	0.67
33:BD:65:ILE:HD11	33:BD:67:PHE:HE1	1.50	0.67
35:BF:16:GLY:O	35:BF:17:ARG:HG3	1.93	0.67
45:BT:32:TYR:HB3	45:BT:81:PRO:CB	2.23	0.67
49:BX:77:LYS:CG	49:BX:78:LYS:HG3	2.24	0.67
1:CA:1106:G:H5"	3:CC:172:ARG:HG2	1.75	0.67
23:D1:11:ARG:HB3	23:D1:12:PRO:HD3	1.75	0.67
30:D8:32:LEU:HG	30:D8:34:TRP:HE3	1.57	0.67
31:DA:482:A:H4'	50:DY:47:LYS:HZ3	1.59	0.67
31:DA:1337:G:O2'	31:DA:1338:G:H5'	1.94	0.67
31:DA:2307:G:C2	31:DA:2308:G:H5'	2.30	0.67
31:DA:2655:G:N3	31:DA:2655:G:H2'	2.09	0.67
31:DA:2781:A:H8	31:DA:2781:A:H5"	1.59	0.67
35:DF:34:TRP:CZ2	41:DP:12:ALA:HB2	2.29	0.67
1:AA:763:G:H2'	1:AA:764:C:H6	1.57	0.67
1:AA:1116:C:H3'	1:AA:1117:G:H5"	1.76	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:73:MET:HG2	7:AG:90:GLU:HA	1.75	0.67
31:BA:528:A:N1	31:BA:2042:A:H2'	2.09	0.67
31:BA:896:A:C2	31:BA:898:C:H5"	2.29	0.67
31:BA:1118:C:H5'	51:BZ:80:ARG:HH22	1.58	0.67
31:BA:1332:G:H1	31:BA:1609:A:HO2'	1.40	0.67
31:BA:1722:A:O2'	31:BA:1739:U:H5'	1.93	0.67
31:BA:2186:G:H3'	31:BA:2187:G:H5"	1.77	0.67
33:BD:254:THR:N	33:BD:255:LYS:HZ1	1.92	0.67
43:BR:118:GLU:HA	43:BR:118:GLU:OE1	1.93	0.67
45:BT:78:LEU:O	45:BT:78:LEU:HD23	1.93	0.67
1:CA:503:C:H2'	1:CA:504:C:H6	1.60	0.67
13:CM:68:GLY:HA2	13:CM:71:ARG:HB3	1.76	0.67
16:CP:20:VAL:HG21	16:CP:32:TYR:CD2	2.30	0.67
31:DA:71:A:H5'	31:DA:71:A:H8	1.59	0.67
31:DA:607:U:H3	31:DA:621:A:H2	1.42	0.67
31:DA:1652:A:H5'	31:DA:1652:A:C8	2.29	0.67
33:DD:72:LYS:HZ2	33:DD:75:ILE:HD12	1.60	0.67
34:DE:60:ASN:N	34:DE:60:ASN:ND2	2.41	0.67
35:DF:126:VAL:HG21	35:DF:129:PHE:CZ	2.29	0.67
39:DN:18:ALA:HB1	39:DN:21:LYS:CB	2.17	0.67
39:DN:18:ALA:CB	39:DN:26:LEU:HD22	2.22	0.67
47:DV:96:ILE:CG2	47:DV:97:LYS:N	2.57	0.67
50:DY:97:ARG:HH21	50:DY:98:VAL:CG2	2.05	0.67
51:DZ:151:HIS:CD2	51:DZ:151:HIS:N	2.61	0.67
1:AA:539:A:H2'	1:AA:540:G:C8	2.29	0.67
1:AA:671:G:H2'	1:AA:672:U:C6	2.28	0.67
1:AA:1446:U:O2'	1:AA:1447:A:C8	2.47	0.67
4:AD:28:SER:HB3	4:AD:30:LYS:HG2	1.75	0.67
10:AJ:7:LYS:HB2	10:AJ:97:GLU:HB2	1.77	0.67
12:AL:24:VAL:HG13	12:AL:98:TYR:HE2	1.60	0.67
18:AR:50:ILE:CD1	18:AR:70:ILE:HG21	2.24	0.67
24:B2:41:ILE:HG21	31:BA:95:G:H21	1.59	0.67
27:B5:32:PRO:O	27:B5:33:CYS:HB3	1.92	0.67
28:B6:12:GLU:HB3	28:B6:23:THR:HG22	1.76	0.67
30:B8:16:ILE:CD1	30:B8:57:ARG:HG2	2.23	0.67
31:BA:184:C:H2'	31:BA:185:U:C6	2.30	0.67
31:BA:626:U:N3	41:BP:105:LEU:HG	2.09	0.67
31:BA:1744:C:H2'	31:BA:1745:C:H5'	1.77	0.67
31:BA:1786:A:H1'	31:BA:1938:A:N6	2.08	0.67
31:BA:2012:G:H4'	48:BW:96:ILE:CD1	2.24	0.67
31:BA:2473:U:N3	31:BA:2474:C:C6	2.62	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BP:30:THR:CG2	41:BP:31:ALA:H	2.04	0.67
41:BP:62:LEU:H	41:BP:62:LEU:CD1	2.04	0.67
1:CA:1190:G:OP1	3:CC:4:LYS:HA	1.94	0.67
4:CD:189:PRO:HB2	4:CD:194:LEU:CD2	2.24	0.67
25:D3:19:GLN:HE22	25:D3:52:HIS:CE1	2.11	0.67
31:DA:172:C:C3'	31:DA:173:G:H5"	2.23	0.67
31:DA:708:C:H5'	31:DA:709:U:OP2	1.94	0.67
31:DA:1720:U:H2'	31:DA:1721:G:O4'	1.95	0.67
31:DA:2543:G:H2'	31:DA:2544:G:C8	2.29	0.67
43:DR:104:ARG:HD3	43:DR:109:ALA:HB3	1.77	0.67
47:DV:82:ARG:HH11	47:DV:82:ARG:HG2	1.57	0.67
1:AA:1106:G:H5"	3:AC:172:ARG:HG2	1.75	0.67
5:AE:80:ILE:HD12	5:AE:138:ALA:HB1	1.76	0.67
23:B1:88:LYS:O	23:B1:92:LYS:HB2	1.94	0.67
25:B3:11:SER:OG	25:B3:13:ILE:HG12	1.93	0.67
31:BA:314:A:C2'	31:BA:315:G:H5'	2.24	0.67
31:BA:1803:A:O2'	33:BD:259:THR:HG21	1.93	0.67
33:BD:267:SER:O	33:BD:268:ARG:HB2	1.93	0.67
34:BE:134:ILE:HG12	34:BE:134:ILE:O	1.93	0.67
42:BQ:27:VAL:HA	42:BQ:105:GLU:OE1	1.95	0.67
47:BV:96:ILE:HG23	47:BV:97:LYS:N	2.08	0.67
1:CA:545:C:H5"	4:CD:72:GLU:HG2	1.77	0.67
1:CA:972:C:H4'	10:CJ:57:LYS:HG3	1.76	0.67
2:CB:21:ARG:HB3	2:CB:39:ILE:HA	1.76	0.67
4:CD:79:PHE:CZ	4:CD:204:ILE:HD13	2.30	0.67
10:CJ:65:LEU:HD12	14:CN:55:GLY:O	1.94	0.67
31:DA:896:A:C2	31:DA:898:C:H5"	2.30	0.67
31:DA:2307:G:H21	31:DA:2308:G:H5'	1.56	0.67
31:DA:2658:C:O2	31:DA:2658:C:H2'	1.95	0.67
35:DF:16:GLY:O	35:DF:17:ARG:HG3	1.94	0.67
36:DG:18:GLU:O	36:DG:22:ARG:HB2	1.93	0.67
43:DR:8:ARG:CZ	43:DR:8:ARG:HA	2.25	0.67
46:DU:76:TYR:CZ	46:DU:80:ILE:HG13	2.29	0.67
47:DV:83:ARG:HH11	47:DV:83:ARG:HG3	1.57	0.67
1:AA:148:G:O2'	1:AA:149:A:H5'	1.94	0.67
1:AA:659:U:O2'	1:AA:660:G:H5'	1.94	0.67
1:AA:1494:G:N2	31:BA:1912:A:C2	2.62	0.67
5:AE:31:LEU:HD11	5:AE:129:ILE:HA	1.75	0.67
6:AF:76:ALA:O	6:AF:80:ARG:HG3	1.95	0.67
31:BA:2236:C:H2'	31:BA:2237:G:H5'	1.75	0.67
33:BD:108:PRO:HB3	33:BD:143:HIS:HE1	1.59	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:228:PRO:HD3	33:BD:235:GLY:HA3	1.76	0.67
34:BE:52:LEU:HB3	34:BE:75:VAL:HG23	1.77	0.67
39:BN:3:THR:HA	39:BN:4:TYR:CE1	2.30	0.67
39:BN:56:ASN:N	39:BN:125:GLY:H	1.93	0.67
41:BP:17:LYS:C	41:BP:19:VAL:H	2.01	0.67
41:BP:26:GLY:HA2	41:BP:30:THR:HG21	1.76	0.67
46:BU:31:SER:O	46:BU:33:ARG:N	2.26	0.67
16:CP:6:LEU:HG	16:CP:17:TYR:HB3	1.76	0.67
31:DA:71:A:C2	49:DX:31:HIS:HE1	2.12	0.67
31:DA:620:G:H4'	31:DA:621:A:H5"	1.75	0.67
31:DA:1722:A:C2	31:DA:1740:G:H2'	2.30	0.67
31:DA:2208:A:H1'	31:DA:2219:G:C4	2.30	0.67
31:DA:2364:C:H2'	31:DA:2365:G:O4'	1.94	0.67
43:DR:60:LEU:O	43:DR:64:ARG:HG3	1.94	0.67
45:DT:51:ARG:HG3	45:DT:98:LYS:HD2	1.75	0.67
45:DT:106:SER:C	45:DT:107:ASP:OD1	2.37	0.67
50:DY:75:ILE:CD1	50:DY:76:CYS:H	2.04	0.67
1:AA:193:C:H2'	1:AA:194:C:C6	2.28	0.67
1:AA:1399:C:C2	1:AA:1502:A:N6	2.63	0.67
5:AE:78:HIS:CE1	5:AE:143:ARG:H	2.13	0.67
15:AO:3:ILE:HD13	15:AO:3:ILE:H	1.60	0.67
27:B5:36:CYS:C	27:B5:38:ALA:H	2.03	0.67
31:BA:172:C:C3'	31:BA:173:G:H5"	2.23	0.67
43:BR:104:ARG:HD3	43:BR:109:ALA:HB3	1.76	0.67
44:BS:87:PHE:O	44:BS:88:ASP:CB	2.42	0.67
46:BU:75:ASN:HB2	46:BU:78:THR:H	1.60	0.67
46:BU:83:LEU:C	46:BU:88:ILE:HD11	2.19	0.67
1:CA:441:A:H3'	1:CA:442:C:C6	2.30	0.67
3:CC:73:PRO:HA	3:CC:76:VAL:HG13	1.77	0.67
3:CC:182:ILE:HG12	3:CC:203:PHE:HA	1.77	0.67
9:CI:17:VAL:HG11	9:CI:81:ILE:HD13	1.77	0.67
16:CP:28:ARG:HG2	16:CP:28:ARG:NH1	1.96	0.67
23:D1:86:SER:N	23:D1:87:PRO:CD	2.57	0.67
24:D2:53:LEU:CA	24:D2:56:GLN:HE22	2.07	0.67
49:DX:40:LYS:O	49:DX:42:ALA:N	2.26	0.67
1:AA:62:U:O2'	1:AA:379:C:H1'	1.94	0.67
3:AC:182:ILE:HG12	3:AC:203:PHE:HA	1.77	0.67
27:B5:55:ARG:CD	27:B5:56:LYS:H	2.08	0.67
31:BA:11:G:C2'	31:BA:12:U:H5'	2.25	0.67
31:BA:71:A:H2	49:BX:31:HIS:HE1	1.42	0.67
31:BA:430:G:H5"	31:BA:431:U:OP2	1.95	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1484:G:N2	31:BA:1506:C:C2	2.62	0.67
41:BP:112:LEU:O	41:BP:128:HIS:HB2	1.95	0.67
43:BR:56:LYS:HD2	43:BR:88:ARG:H	1.60	0.67
8:CH:13:ILE:O	8:CH:17:THR:HG23	1.95	0.67
24:D2:45:SER:HB3	24:D2:48:HIS:CB	2.24	0.67
28:D6:15:GLU:OE2	28:D6:41:PRO:HG3	1.94	0.67
31:DA:184:C:H2'	31:DA:185:U:H6	1.60	0.67
31:DA:1359:A:C8	31:DA:1372:U:O4	2.47	0.67
31:DA:1762:A:H8	31:DA:1762:A:O5'	1.78	0.67
31:DA:1899:G:N2	31:DA:1902:C:C5	2.63	0.67
31:DA:2094:G:H5'	38:DI:25:TYR:CD2	2.30	0.67
34:DE:101:ARG:HD2	34:DE:169:ASN:ND2	2.10	0.67
36:DG:19:LEU:HG	36:DG:175:LEU:HD12	1.76	0.67
39:DN:30:ILE:O	39:DN:34:LEU:HD22	1.95	0.67
40:DO:115:VAL:HG13	40:DO:121:VAL:HG21	1.76	0.67
43:DR:56:LYS:HD2	43:DR:88:ARG:H	1.60	0.67
50:DY:97:ARG:HH21	50:DY:98:VAL:HG21	1.57	0.67
1:AA:859:A:H2'	1:AA:860:A:O4'	1.95	0.67
1:AA:1070:U:H2'	1:AA:1071:C:C6	2.28	0.67
31:BA:620:G:H4'	31:BA:621:A:H5"	1.75	0.67
31:BA:875:G:C4'	51:BZ:170:THR:HG21	2.23	0.67
31:BA:1332:G:H22	31:BA:1609:A:H2'	1.60	0.67
31:BA:2208:A:H1'	31:BA:2219:G:C4	2.29	0.67
31:BA:2415:G:O3'	41:BP:66:GLY:HA3	1.94	0.67
33:BD:49:ILE:C	33:BD:49:ILE:HD13	2.20	0.67
33:BD:224:ALA:HB2	33:BD:233:HIS:HB3	1.77	0.67
34:BE:60:ASN:ND2	34:BE:60:ASN:N	2.42	0.67
35:BF:126:VAL:HG21	35:BF:129:PHE:CZ	2.30	0.67
38:BI:8:PRO:O	38:BI:9:LEU:HD23	1.94	0.67
42:BQ:42:ILE:HD13	42:BQ:97:VAL:CG2	2.24	0.67
49:BX:23:GLU:CG	49:BX:24:GLY:H	2.08	0.67
1:CA:633:G:H5'	1:CA:634:C:OP2	1.95	0.67
2:CB:29:ALA:O	2:CB:32:ILE:HG22	1.94	0.67
8:CH:20:TYR:HD1	8:CH:65:TYR:CD2	2.13	0.67
12:CL:27:LEU:O	12:CL:29:GLY:N	2.28	0.67
16:CP:39:TYR:C	16:CP:39:TYR:CD1	2.70	0.67
18:CR:50:ILE:CD1	18:CR:70:ILE:HG21	2.24	0.67
30:D8:46:ARG:NH2	41:DP:65:ARG:NH2	2.43	0.67
31:DA:141:A:H8	31:DA:1408:C:HO2'	1.26	0.67
31:DA:621:A:H2'	31:DA:622:G:H5'	1.77	0.67
31:DA:806:C:P	41:DP:39:LYS:HG3	2.35	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1280:G:H2'	31:DA:1281:G:H5"	1.77	0.67
31:DA:2315:G:H2'	31:DA:2316:C:C6	2.30	0.67
45:DT:129:ARG:CZ	45:DT:131:ALA:HB3	2.24	0.67
6:AF:82:ARG:HH11	6:AF:82:ARG:HA	1.60	0.67
23:B1:11:ARG:HB3	23:B1:12:PRO:HD3	1.77	0.67
27:B5:40:LYS:NZ	27:B5:46:CYS:O	2.27	0.67
28:B6:51:GLU:O	28:B6:52:VAL:HB	1.95	0.67
31:BA:542:C:N3	31:BA:543:C:N4	2.43	0.67
31:BA:1204:A:N1	31:BA:1241:A:C2	2.63	0.67
31:BA:2772:C:H2'	31:BA:2773:C:H6	1.60	0.67
37:BH:91:GLY:O	37:BH:92:ILE:HG13	1.95	0.67
39:BN:66:LYS:HA	39:BN:69:GLN:HB2	1.75	0.67
49:BX:33:LYS:CA	49:BX:35:THR:HG22	2.25	0.67
49:BX:40:LYS:C	49:BX:42:ALA:H	2.03	0.67
1:CA:797:C:OP1	11:CK:124:LYS:HE2	1.94	0.67
12:CL:124:LYS:HD2	12:CL:125:PRO:HD2	1.75	0.67
19:CS:63:THR:O	19:CS:66:MET:HG2	1.95	0.67
20:CT:38:LYS:HA	20:CT:41:ILE:HD12	1.77	0.67
22:D0:29:GLN:O	22:D0:67:VAL:HG23	1.95	0.67
31:DA:285:C:C2'	31:DA:286:C:H5"	2.23	0.67
31:DA:661:C:H4'	41:DP:16:ARG:NH1	2.09	0.67
31:DA:1429:G:H2'	31:DA:1430:C:C6	2.29	0.67
31:DA:1648:C:H2'	31:DA:1649:G:O5'	1.95	0.67
31:DA:1722:A:O2'	31:DA:1739:U:H5'	1.95	0.67
31:DA:1803:A:O2'	33:DD:259:THR:HG21	1.94	0.67
31:DA:2233:U:H2'	31:DA:2234:G:C8	2.30	0.67
31:DA:2690:C:OP2	43:DR:14:SER:HB3	1.95	0.67
34:DE:65:GLY:C	34:DE:67:PHE:H	2.02	0.67
35:DF:65:TRP:CZ3	35:DF:75:HIS:HD2	2.13	0.67
39:DN:112:LEU:HD12	39:DN:112:LEU:O	1.95	0.67
47:DV:66:ARG:HD2	47:DV:67:GLY:N	2.09	0.67
48:DW:40:ASN:O	48:DW:41:LYS:HG2	1.95	0.67
50:DY:39:VAL:HG12	50:DY:40:GLU:N	2.09	0.67
1:AA:920:U:H2'	1:AA:921:U:C6	2.30	0.66
1:AA:1190:G:OP1	3:AC:4:LYS:HA	1.94	0.66
12:AL:75:HIS:HD2	12:AL:77:LEU:H	1.42	0.66
20:AT:16:HIS:O	20:AT:19:SER:HB3	1.95	0.66
29:B7:19:ARG:HH11	29:B7:19:ARG:HG2	1.60	0.66
31:BA:272:G:H4'	31:BA:272(B):G:OP1	1.92	0.66
31:BA:272(J):C:H42	31:BA:363(A):A:N6	1.93	0.66
31:BA:1693:U:H4'	31:BA:1694:C:OP2	1.93	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BE:167:VAL:HG22	34:BE:170:LEU:HD11	1.76	0.66
47:BV:5:VAL:CG2	47:BV:36:PRO:HB2	2.25	0.66
1:CA:425:G:C2'	1:CA:426:G:H5'	2.24	0.66
1:CA:820:U:H4'	1:CA:821:G:OP2	1.93	0.66
1:CA:1226:C:C4	13:CM:104:ARG:HB2	2.31	0.66
9:CI:46:ALA:HA	9:CI:78:LYS:HZ2	1.59	0.66
19:CS:22:LEU:O	19:CS:26:GLY:HA2	1.95	0.66
24:D2:37:PHE:HZ	24:D2:43:GLN:HB2	1.61	0.66
24:D2:47:ASN:C	24:D2:49:LYS:H	2.03	0.66
30:D8:13:ARG:NH2	31:DA:250:G:OP2	2.28	0.66
31:DA:1332:G:H5"	31:DA:1332:G:H8	1.60	0.66
31:DA:2500:U:H2'	31:DA:2504:U:H5	1.58	0.66
31:DA:2584:U:H2'	31:DA:2585:U:H6	1.57	0.66
34:DE:151:TYR:HD2	34:DE:154:LYS:NZ	1.93	0.66
45:DT:35:LYS:O	45:DT:37:GLY:N	2.28	0.66
1:AA:1162:C:H2'	1:AA:1163:C:C6	2.29	0.66
27:B5:29:THR:HG21	31:BA:2815:C:H5'	1.76	0.66
31:BA:743:G:H2'	31:BA:744:G:H5'	1.77	0.66
31:BA:1225:G:P	47:BV:88:ARG:HB3	2.35	0.66
31:BA:1797:C:C2'	31:BA:1798:U:H5'	2.25	0.66
31:BA:2223:G:C2'	31:BA:2224:G:H5'	2.24	0.66
32:BB:79:C:C2'	32:BB:80:U:H5'	2.25	0.66
39:BN:27:ALA:HB3	39:BN:106:MET:CE	2.25	0.66
1:CA:659:U:C2'	1:CA:660:G:H5'	2.24	0.66
5:CE:57:LYS:O	5:CE:61:TYR:HD2	1.77	0.66
10:CJ:63:PHE:HB3	14:CN:57:ARG:O	1.95	0.66
23:D1:19:GLN:CD	23:D1:44:PRO:HG3	2.20	0.66
31:DA:1225:G:OP1	47:DV:88:ARG:HB3	1.95	0.66
31:DA:1265:A:OP1	31:DA:1265:A:H8	1.78	0.66
31:DA:1292:U:H2'	31:DA:1293:C:H6	1.57	0.66
31:DA:1348:G:C2'	31:DA:1349:A:H5"	2.25	0.66
31:DA:1533:G:O2'	31:DA:1543:C:P	2.53	0.66
31:DA:1590:U:H2'	31:DA:1591:G:H5"	1.76	0.66
39:DN:45:ASN:HD22	39:DN:45:ASN:N	1.89	0.66
41:DP:17:LYS:C	41:DP:19:VAL:H	2.03	0.66
50:DY:37:VAL:HG13	50:DY:69:ALA:HA	1.77	0.66
1:AA:344:A:O2'	1:AA:346:G:N7	2.27	0.66
3:AC:73:PRO:O	3:AC:76:VAL:HG22	1.95	0.66
8:AH:21:LYS:O	8:AH:63:LEU:HD23	1.95	0.66
24:B2:49:LYS:CD	24:B2:53:LEU:HD22	2.25	0.66
31:BA:1257:C:H4'	35:BF:83:PHE:CE2	2.30	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1719:G:C2'	31:BA:1720:U:H5'	2.25	0.66
31:BA:1742:G:N7	31:BA:1743:C:C2	2.63	0.66
31:BA:1784:A:H4'	31:BA:1785:A:C5'	2.26	0.66
31:BA:2068:U:N3	31:BA:2430:A:C2	2.53	0.66
37:BH:158:HIS:CE1	37:BH:168:PRO:HB2	2.31	0.66
39:BN:40:PRO:CA	46:BU:64:ARG:HH22	2.08	0.66
1:CA:33:A:H2'	1:CA:34:C:C6	2.31	0.66
1:CA:735:C:O2'	1:CA:736:C:H5'	1.95	0.66
2:CB:88:ALA:HB2	2:CB:219:VAL:CG1	2.26	0.66
10:CJ:54:PHE:CE2	10:CJ:55:LYS:HD2	2.30	0.66
11:CK:13:GLN:HB3	11:CK:75:TYR:O	1.96	0.66
15:CO:25:THR:HG21	15:CO:70:LEU:HB2	1.76	0.66
28:D6:10:LEU:H	28:D6:10:LEU:HD22	1.59	0.66
28:D6:13:CYS:O	28:D6:21:TYR:HA	1.94	0.66
31:DA:2308:G:O6	31:DA:2310:A:H2'	1.95	0.66
36:DG:60:LEU:O	36:DG:64:THR:HG22	1.96	0.66
46:DU:92:ARG:O	46:DU:93:LYS:C	2.38	0.66
49:DX:44:GLU:HG3	49:DX:49:VAL:O	1.95	0.66
49:DX:57:LEU:HD12	49:DX:57:LEU:N	2.09	0.66
1:AA:271:C:H2'	1:AA:272:C:H6	1.61	0.66
1:AA:972:C:H4'	10:AJ:57:LYS:HG3	1.77	0.66
4:AD:129:ASN:HD21	4:AD:144:ASP:HB3	1.61	0.66
5:AE:32:VAL:HB	5:AE:58:ALA:HB1	1.78	0.66
6:AF:91:VAL:HG12	6:AF:92:LYS:O	1.95	0.66
10:AJ:65:LEU:HD12	14:AN:55:GLY:O	1.93	0.66
23:B1:26:ARG:HB2	23:B1:34:THR:HA	1.75	0.66
28:B6:13:CYS:HB3	28:B6:49:HIS:HB3	1.78	0.66
31:BA:814:C:H5	41:BP:27:HIS:NE2	1.91	0.66
38:BI:75:LEU:HD11	38:BI:105:HIS:CE1	2.30	0.66
41:BP:27:HIS:C	41:BP:27:HIS:CD2	2.73	0.66
42:BQ:81:VAL:C	42:BQ:82:ARG:CG	2.66	0.66
1:CA:1479:C:O2'	1:CA:1480:G:H5'	1.95	0.66
2:CB:167:PRO:HG2	2:CB:192:SER:HB3	1.77	0.66
8:CH:21:LYS:O	8:CH:63:LEU:HD23	1.94	0.66
10:CJ:7:LYS:HB2	10:CJ:97:GLU:HB2	1.76	0.66
20:CT:56:MET:HE1	20:CT:85:MET:HE2	1.76	0.66
31:DA:2186:G:H3'	31:DA:2187:G:H5"	1.77	0.66
31:DA:2250:G:C5	42:DQ:82:ARG:HD3	2.30	0.66
31:DA:2544:G:H8	31:DA:2544:G:O5'	1.78	0.66
31:DA:2598:A:P	33:DD:236:GLY:HA3	2.35	0.66
32:DB:21:G:O6	32:DB:63:G:C5	2.48	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DN:67:LEU:C	39:DN:69:GLN:H	2.01	0.66
41:DP:112:LEU:H	41:DP:128:HIS:CD2	2.13	0.66
45:DT:32:TYR:HB3	45:DT:81:PRO:CB	2.24	0.66
47:DV:2:PHE:O	47:DV:14:VAL:O	2.13	0.66
49:DX:73:ARG:H	49:DX:74:PRO:CD	2.09	0.66
50:DY:37:VAL:O	50:DY:38:ILE:HB	1.94	0.66
1:AA:617:G:C6	1:AA:618:C:C5	2.84	0.66
1:AA:626:U:H2'	1:AA:627:G:H8	1.61	0.66
1:AA:818:G:O2'	1:AA:819:A:H5'	1.95	0.66
1:AA:1184:G:H2'	1:AA:1185:G:C8	2.31	0.66
7:AG:16:LEU:HD13	9:AI:45:ALA:HB2	1.76	0.66
14:AN:48:ALA:HB2	14:AN:53:LEU:HD12	1.77	0.66
31:BA:1278:A:OP1	43:BR:36:THR:CG2	2.43	0.66
31:BA:1568:G:H21	33:BD:58:HIS:CE1	2.13	0.66
31:BA:1742:G:H5'	31:BA:1743:C:OP2	1.96	0.66
31:BA:2682:U:C5	34:BE:11:MET:HE2	2.30	0.66
32:BB:66:A:N6	32:BB:108:U:H2'	2.09	0.66
39:BN:42:TRP:CA	39:BN:48:MET:HE1	2.25	0.66
43:BR:4:LEU:C	43:BR:5:LYS:HD2	2.21	0.66
47:BV:19:LYS:CG	47:BV:20:LEU:H	2.08	0.66
1:CA:1416:G:H2'	1:CA:1417:G:O4'	1.95	0.66
10:CJ:7:LYS:HD3	10:CJ:71:LEU:HD13	1.76	0.66
15:CO:3:ILE:HD13	15:CO:3:ILE:H	1.59	0.66
15:CO:4:THR:OG1	15:CO:7:GLU:HB2	1.95	0.66
17:CQ:59:ILE:HG22	17:CQ:71:PHE:HD1	1.61	0.66
29:D7:34:ARG:NH1	29:D7:39:ARG:HG3	2.11	0.66
31:DA:1141:U:H2'	39:DN:63:THR:CG2	2.26	0.66
31:DA:1639:U:C2'	31:DA:1640:C:H5"	2.24	0.66
31:DA:2252:G:H2'	31:DA:2253:G:C8	2.30	0.66
34:DE:52:LEU:HB2	34:DE:76:ARG:HB2	1.76	0.66
37:DH:157:TYR:HE1	37:DH:171:LEU:N	1.93	0.66
37:DH:158:HIS:CE1	37:DH:168:PRO:HB2	2.31	0.66
39:DN:57:ALA:O	39:DN:58:ASP:C	2.38	0.66
41:DP:10:PRO:HD2	41:DP:11:GLY:H	1.59	0.66
46:DU:88:ILE:HD12	46:DU:88:ILE:N	2.11	0.66
49:DX:40:LYS:C	49:DX:42:ALA:H	2.03	0.66
1:AA:1494:G:N2	31:BA:1912:A:N3	2.43	0.66
8:AH:102:ARG:HE	8:AH:102:ARG:N	1.92	0.66
15:AO:87:ILE:CG2	15:AO:88:ARG:H	2.09	0.66
16:AP:39:TYR:C	16:AP:39:TYR:CD1	2.73	0.66
23:B1:10:LYS:O	23:B1:13:ILE:HG23	1.96	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B5:51:TYR:CD2	27:B5:52:TYR:CZ	2.83	0.66
31:BA:717:G:H2'	31:BA:718:A:O4'	1.94	0.66
31:BA:1956:U:H2'	31:BA:1957:C:H5'	1.77	0.66
33:BD:71:ASP:HB3	33:BD:103:ARG:HH22	1.61	0.66
34:BE:132:HIS:CG	34:BE:135:HIS:NE2	2.64	0.66
45:BT:19:LEU:HD13	45:BT:85:LYS:HD2	1.76	0.66
49:BX:35:THR:O	49:BX:36:LYS:O	2.14	0.66
1:CA:559:A:H4'	1:CA:560:U:H3'	1.75	0.66
1:CA:1073:U:H2'	1:CA:1074:G:H8	1.60	0.66
24:D2:26:ARG:HG2	49:DX:5:TYR:O	1.94	0.66
31:DA:960:A:H5"	31:DA:961:C:OP2	1.95	0.66
32:DB:82:G:C2'	32:DB:83:G:H5'	2.26	0.66
49:DX:33:LYS:C	49:DX:35:THR:N	2.46	0.66
1:AA:59:A:H3'	1:AA:331:G:H22	1.61	0.66
4:AD:61:LYS:HD3	4:AD:62:GLN:HE21	1.60	0.66
4:AD:138:TYR:CD2	4:AD:138:TYR:C	2.74	0.66
8:AH:58:TYR:O	8:AH:59:LEU:HD23	1.96	0.66
10:AJ:7:LYS:HD3	10:AJ:71:LEU:HD13	1.77	0.66
10:AJ:54:PHE:CE2	10:AJ:55:LYS:HD2	2.31	0.66
11:AK:127:LYS:HE2	11:AK:127:LYS:CA	2.25	0.66
22:B0:26:TYR:HE2	31:BA:857:C:H1'	1.57	0.66
31:BA:34:C:N4	31:BA:455:C:H5"	2.11	0.66
31:BA:71:A:C2	49:BX:31:HIS:HE1	2.14	0.66
31:BA:175:G:C5'	31:BA:175:G:H8	2.08	0.66
31:BA:251:A:H5"	41:BP:51:PHE:CZ	2.30	0.66
31:BA:309:G:H4'	50:BY:18:GLY:HA3	1.77	0.66
31:BA:624:C:C2'	31:BA:625:G:H5'	2.26	0.66
31:BA:661:C:H4'	41:BP:16:ARG:NH1	2.10	0.66
31:BA:1281:G:H5'	31:BA:1281:G:C8	2.25	0.66
31:BA:1794:U:H2'	31:BA:1795:C:H6	1.58	0.66
31:BA:1839:G:N7	31:BA:1927:A:H1'	2.10	0.66
31:BA:2286:A:C8	31:BA:2286:A:O2'	2.49	0.66
38:BI:54:GLN:HG2	38:BI:57:ARG:HH22	1.61	0.66
49:BX:24:GLY:CA	49:BX:80:ILE:HG13	2.24	0.66
1:CA:41:G:H2'	1:CA:42:G:C8	2.31	0.66
1:CA:62:U:O2'	1:CA:379:C:H1'	1.96	0.66
1:CA:632:A:C8	1:CA:633:G:C8	2.84	0.66
1:CA:750:G:N3	15:CO:23:GLY:HA3	2.11	0.66
2:CB:74:LYS:NZ	2:CB:76:GLN:HB2	2.10	0.66
5:CE:68:GLU:O	5:CE:68:GLU:HG3	1.95	0.66
28:D6:42:TRP:CZ2	31:DA:642:G:O3'	2.49	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:6:THR:CG2	31:DA:243:U:OP1	2.44	0.66
31:DA:786:C:H2'	31:DA:787:U:H5'	1.77	0.66
31:DA:1579:A:H2'	31:DA:1580:A:C8	2.31	0.66
31:DA:1719:G:C2'	31:DA:1720:U:H5'	2.24	0.66
35:DF:51:THR:HG21	35:DF:92:PRO:HD2	1.78	0.66
41:DP:40:SER:O	41:DP:41:ARG:HD2	1.96	0.66
41:DP:47:ASP:HB3	41:DP:48:PRO:CA	2.25	0.66
45:DT:82:LEU:HD12	45:DT:82:LEU:N	2.11	0.66
49:DX:21:PHE:N	49:DX:21:PHE:CD1	2.62	0.66
50:DY:17:SER:OG	50:DY:18:GLY:N	2.29	0.66
1:AA:113:G:H2'	1:AA:114:U:C6	2.31	0.66
1:AA:1479:C:O2'	1:AA:1480:G:H5'	1.95	0.66
24:B2:49:LYS:O	24:B2:50:ILE:C	2.39	0.66
31:BA:848:G:N3	31:BA:933:A:H1'	2.10	0.66
31:BA:2761:G:H2'	31:BA:2762:G:H5"	1.78	0.66
32:BB:48:A:H4'	44:BS:95:HIS:HD2	1.61	0.66
47:BV:69:LYS:O	47:BV:70:ILE:HG23	1.94	0.66
49:BX:60:ARG:HB2	49:BX:74:PRO:HD2	1.78	0.66
49:BX:63:LYS:HE3	49:BX:70:LEU:HD22	1.77	0.66
50:BY:35:TYR:CD2	50:BY:69:ALA:HB3	2.31	0.66
1:CA:607:A:H2'	1:CA:608:A:O4'	1.96	0.66
1:CA:785:G:H2'	1:CA:786:G:H5'	1.77	0.66
1:CA:826:C:H2'	1:CA:827:U:C6	2.30	0.66
1:CA:942:G:N2	9:CI:124:GLN:HE22	1.94	0.66
1:CA:1442:G:O2'	1:CA:1442(A):G:C5'	2.35	0.66
2:CB:22:LYS:HZ3	2:CB:40:HIS:HE1	1.42	0.66
27:D5:36:CYS:C	27:D5:38:ALA:H	2.03	0.66
27:D5:55:ARG:CD	27:D5:56:LYS:H	2.08	0.66
31:DA:71:A:H5'	31:DA:71:A:C8	2.31	0.66
31:DA:1037:G:H1	31:DA:1118:C:H42	1.44	0.66
31:DA:2186:G:C3'	31:DA:2187:G:H5"	2.25	0.66
32:DB:28:C:H2'	32:DB:29:A:H8	1.58	0.66
33:DD:106:ILE:HD13	33:DD:106:ILE:O	1.94	0.66
36:DG:7:LEU:HB2	36:DG:104:GLU:OE2	1.96	0.66
38:DI:75:LEU:HD11	38:DI:105:HIS:CE1	2.29	0.66
47:DV:19:LYS:HG2	47:DV:96:ILE:CB	2.26	0.66
51:DZ:139:VAL:HG12	51:DZ:141:VAL:H	1.60	0.66
1:AA:707:C:O2'	1:AA:708:C:H5'	1.96	0.66
4:AD:17:VAL:HG11	4:AD:197:PRO:HB2	1.77	0.66
20:AT:46:GLU:CD	20:AT:48:LYS:HE2	2.21	0.66
30:B8:18:ALA:HB3	31:BA:651:G:H4'	1.76	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:46:ARG:NH2	41:BP:65:ARG:NH2	2.42	0.66
31:BA:1429:G:H2'	31:BA:1430:C:C6	2.31	0.66
31:BA:1533:G:O2'	31:BA:1543:C:P	2.54	0.66
37:BH:157:TYR:HE1	37:BH:171:LEU:N	1.94	0.66
43:BR:37:THR:OG1	43:BR:40:LYS:HG3	1.95	0.66
45:BT:23:ARG:O	45:BT:25:GLY:N	2.29	0.66
47:BV:61:VAL:HG12	47:BV:99:ILE:HB	1.76	0.66
47:BV:79:VAL:CG2	47:BV:82:ARG:HD2	2.25	0.66
47:BV:82:ARG:HG3	47:BV:82:ARG:NH1	2.08	0.66
1:CA:344:A:O2'	1:CA:346:G:N7	2.27	0.66
1:CA:932:C:H4'	7:CG:4:ARG:NH2	2.11	0.66
1:CA:1184:G:H2'	1:CA:1185:G:C8	2.31	0.66
2:CB:137:ARG:HH11	2:CB:137:ARG:HA	1.61	0.66
28:D6:15:GLU:HG2	28:D6:18:ARG:NH1	2.11	0.66
30:D8:35:GLN:HE21	30:D8:36:LYS:HZ2	1.43	0.66
38:DI:125:GLU:OE1	38:DI:141:LYS:HG2	1.95	0.66
46:DU:75:ASN:HB2	46:DU:78:THR:H	1.61	0.66
50:DY:96:ILE:CD1	50:DY:99:CYS:SG	2.83	0.66
1:AA:735:C:O2'	1:AA:736:C:H5'	1.96	0.66
1:AA:1497:G:H2'	1:AA:1498:U:H5'	1.77	0.66
2:AB:100:GLY:N	2:AB:176:GLU:OE2	2.28	0.66
12:AL:69:TYR:HB3	12:AL:99:HIS:CD2	2.31	0.66
16:AP:22:THR:HA	16:AP:33:ILE:HG12	1.78	0.66
31:BA:691:C:O2'	31:BA:692:C:H5'	1.96	0.66
31:BA:1652:A:H5'	31:BA:1652:A:C8	2.31	0.66
35:BF:89:VAL:HG12	35:BF:90:PHE:N	2.10	0.66
39:BN:112:LEU:HD12	39:BN:112:LEU:C	2.20	0.66
45:BT:82:LEU:HD12	45:BT:82:LEU:N	2.11	0.66
1:CA:409:G:H2'	1:CA:410:G:C5'	2.25	0.66
3:CC:52:LEU:HD23	3:CC:52:LEU:H	1.61	0.66
7:CG:150:ALA:O	11:CK:57:THR:HG21	1.95	0.66
31:DA:34:C:N4	31:DA:455:C:H5"	2.11	0.66
31:DA:1484:G:N2	31:DA:1506:C:C2	2.64	0.66
31:DA:2360:A:O2'	31:DA:2361:A:P	2.53	0.66
32:DB:51:G:H5"	32:DB:52:A:OP2	1.95	0.66
36:DG:139:LEU:HA	36:DG:144:ILE:HG23	1.78	0.66
37:DH:85:LYS:CE	37:DH:145:ALA:HB2	2.26	0.66
39:DN:56:ASN:N	39:DN:125:GLY:H	1.94	0.66
44:DS:17:ARG:HA	44:DS:20:ARG:HG2	1.78	0.66
45:DT:78:LEU:O	45:DT:78:LEU:HD23	1.96	0.66
48:DW:56:ALA:O	48:DW:57:ASN:C	2.39	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DY:28:LYS:HE3	50:DY:30:VAL:HG22	1.75	0.66
1:AA:632:A:C8	1:AA:633:G:C8	2.83	0.65
1:AA:949:A:H1'	1:AA:1364:U:N3	2.11	0.65
1:AA:1226:C:C4	13:AM:104:ARG:HB2	2.30	0.65
3:AC:52:LEU:H	3:AC:52:LEU:HD23	1.61	0.65
4:AD:189:PRO:HB2	4:AD:194:LEU:CD2	2.25	0.65
31:BA:999:U:O2'	31:BA:1000:A:H5'	1.96	0.65
31:BA:1582:C:O2'	31:BA:1586:A:C8	2.50	0.65
31:BA:1722:A:C2	31:BA:1740:G:H2'	2.32	0.65
31:BA:2252:G:H2'	31:BA:2253:G:C8	2.31	0.65
31:BA:2402:C:H5'	31:BA:2403:C:OP2	1.96	0.65
33:BD:35:LYS:CG	33:BD:64:ILE:N	2.59	0.65
33:BD:60:ARG:HD3	33:BD:87:ASN:OD1	1.95	0.65
34:BE:116:VAL:CG2	34:BE:122:PHE:CD2	2.79	0.65
37:BH:70:THR:O	37:BH:71:LEU:C	2.36	0.65
46:BU:88:ILE:C	46:BU:90:VAL:H	2.03	0.65
51:BZ:139:VAL:HG12	51:BZ:141:VAL:H	1.61	0.65
51:BZ:151:HIS:HB3	51:BZ:170:THR:CA	2.08	0.65
1:CA:1112:C:O2	3:CC:178:LEU:HB2	1.96	0.65
4:CD:150:GLU:HG2	4:CD:151:LYS:H	1.62	0.65
5:CE:80:ILE:HD12	5:CE:138:ALA:HB1	1.77	0.65
6:CF:82:ARG:HA	6:CF:82:ARG:HH11	1.62	0.65
22:D0:26:TYR:HE2	31:DA:857:C:H1'	1.60	0.65
23:D1:11:ARG:HB3	23:D1:12:PRO:CD	2.26	0.65
23:D1:94:LEU:HD22	23:D1:95:LEU:O	1.95	0.65
31:DA:34:C:C2'	31:DA:35:G:OP1	2.43	0.65
31:DA:819:A:C4	31:DA:1189:A:C2	2.84	0.65
31:DA:1266:G:O5'	48:DW:15:ARG:NH2	2.28	0.65
31:DA:1313:U:H2'	31:DA:1610:A:C2	2.31	0.65
31:DA:1405:U:H2'	31:DA:1406:U:C6	2.30	0.65
31:DA:1459:G:C8	31:DA:1461:G:H1'	2.30	0.65
31:DA:1796:U:H2'	31:DA:1797:C:C6	2.31	0.65
31:DA:2859:G:H3'	31:DA:2859:G:C8	2.32	0.65
33:DD:108:PRO:HD2	33:DD:111:LEU:HG	1.77	0.65
37:DH:68:THR:O	37:DH:69:ARG:C	2.39	0.65
10:AJ:8:LEU:HD22	10:AJ:20:ALA:HB2	1.76	0.65
19:AS:22:LEU:O	19:AS:26:GLY:HA2	1.96	0.65
24:B2:15:LYS:O	24:B2:16:LEU:CB	2.43	0.65
28:B6:16:CYS:O	28:B6:18:ARG:NH2	2.29	0.65
31:BA:911:A:C2'	42:BQ:9:TYR:OH	2.41	0.65
31:BA:1337:G:O2'	31:BA:1338:G:H5'	1.96	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1497:U:C5'	31:BA:1498:C:C5	2.79	0.65
35:BF:51:THR:HG21	35:BF:92:PRO:HD2	1.78	0.65
39:BN:56:ASN:H	39:BN:125:GLY:N	1.93	0.65
43:BR:51:LEU:CD2	43:BR:70:LEU:HD21	2.27	0.65
51:BZ:130:PRO:HA	51:BZ:133:ILE:HD11	1.78	0.65
1:CA:407:G:H5'	4:CD:3:ARG:NH1	2.11	0.65
1:CA:950:U:H2'	1:CA:951:G:H8	1.60	0.65
1:CA:1270:C:H2'	1:CA:1271:G:O4'	1.97	0.65
2:CB:77:ALA:HA	2:CB:80:ILE:HD11	1.79	0.65
10:CJ:39:PRO:HB3	10:CJ:70:ARG:HH12	1.61	0.65
31:DA:146:G:H2'	31:DA:147:U:O4'	1.96	0.65
31:DA:1582:C:O2'	31:DA:1586:A:C8	2.50	0.65
31:DA:1658:C:OP1	34:DE:132:HIS:ND1	2.29	0.65
31:DA:2286:A:C8	31:DA:2286:A:O2'	2.47	0.65
33:DD:143:HIS:CD2	33:DD:144:ALA:HB2	2.31	0.65
35:DF:184:TYR:CE2	35:DF:188:ARG:HD2	2.31	0.65
41:DP:48:PRO:O	41:DP:50:ARG:N	2.28	0.65
41:DP:51:PHE:O	41:DP:52:GLU:HB2	1.93	0.65
1:AA:552:U:H4'	12:AL:86:ARG:HG2	1.77	0.65
1:AA:1270:C:H2'	1:AA:1271:G:O4'	1.96	0.65
2:AB:22:LYS:HA	2:AB:22:LYS:NZ	2.12	0.65
15:AO:62:GLN:HA	15:AO:65:ARG:NH1	2.11	0.65
28:B6:30:THR:O	28:B6:31:PRO:C	2.36	0.65
31:BA:285:C:C2'	31:BA:286:C:H5"	2.24	0.65
31:BA:1038:C:H42	31:BA:1117:G:H1	1.44	0.65
31:BA:1224:C:O3'	47:BV:88:ARG:HB3	1.95	0.65
31:BA:1225:G:OP1	47:BV:88:ARG:CB	2.44	0.65
31:BA:2658:C:H3'	31:BA:2659:G:H5"	1.79	0.65
1:CA:63:C:N4	1:CA:104:G:H1	1.94	0.65
2:CB:8:LYS:NZ	2:CB:217:ARG:HH11	1.93	0.65
4:CD:172:PRO:HB2	4:CD:187:ARG:HH22	1.61	0.65
30:D8:59:LYS:HB2	30:D8:59:LYS:HZ3	1.57	0.65
31:DA:1116:C:H2'	31:DA:1117:G:H5'	1.79	0.65
31:DA:1332:G:H22	31:DA:1609:A:H2'	1.62	0.65
31:DA:2500:U:H5"	31:DA:2501:C:OP2	1.96	0.65
47:DV:25:LEU:H	47:DV:94:LEU:HD12	1.61	0.65
1:AA:785:G:H2'	1:AA:786:G:H5'	1.79	0.65
2:AB:8:LYS:NZ	2:AB:217:ARG:HH11	1.94	0.65
2:AB:69:LEU:HD22	2:AB:91:PRO:HB2	1.78	0.65
6:AF:99:ALA:HB1	18:AR:23:LYS:NZ	2.11	0.65
7:AG:62:PHE:HA	7:AG:124:LEU:HD22	1.78	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:48:ILE:HG22	11:AK:49:GLY:H	1.61	0.65
16:AP:20:VAL:HG21	16:AP:32:TYR:CD2	2.30	0.65
31:BA:330:A:C2	31:BA:1210:A:H2'	2.20	0.65
31:BA:807:U:C2'	31:BA:808:G:O5'	2.44	0.65
31:BA:1403:C:C5'	31:BA:1471:A:H1'	2.25	0.65
31:BA:2206:G:N2	31:BA:2207:G:C5'	2.51	0.65
31:BA:2632:A:H1'	34:BE:61:ARG:CZ	2.27	0.65
31:BA:2661:G:N7	31:BA:2662:A:C2	2.63	0.65
35:BF:20:LEU:HD22	35:BF:203:GLN:NE2	2.11	0.65
37:BH:156:ALA:H	37:BH:158:HIS:N	1.93	0.65
45:BT:32:TYR:N	45:BT:32:TYR:CD2	2.64	0.65
48:BW:62:HIS:O	48:BW:63:ASP:C	2.39	0.65
49:BX:35:THR:O	49:BX:36:LYS:C	2.39	0.65
50:BY:37:VAL:O	50:BY:38:ILE:HB	1.97	0.65
1:CA:22:G:H2'	1:CA:23:C:H6	1.61	0.65
4:CD:138:TYR:CD2	4:CD:138:TYR:C	2.74	0.65
15:CO:63:ARG:NH1	15:CO:87:ILE:HD13	2.11	0.65
27:D5:11:THR:HG21	31:DA:1264:G:H5'	1.78	0.65
29:D7:19:ARG:HH11	29:D7:19:ARG:HG2	1.62	0.65
31:DA:143:G:H1'	49:DX:38:GLU:HG3	1.77	0.65
31:DA:146:G:H5'	31:DA:146:G:C8	2.29	0.65
31:DA:309:G:O3'	50:DY:18:GLY:HA2	1.96	0.65
32:DB:21:G:O2'	32:DB:22:U:H6	1.79	0.65
33:DD:60:ARG:HD3	33:DD:87:ASN:OD1	1.96	0.65
33:DD:118:VAL:HG22	33:DD:119:ALA:N	2.11	0.65
34:DE:116:VAL:CG2	34:DE:122:PHE:CD2	2.79	0.65
34:DE:132:HIS:CD2	34:DE:135:HIS:HE1	2.09	0.65
35:DF:183:VAL:O	35:DF:187:VAL:HG23	1.96	0.65
38:DI:52:ARG:O	38:DI:53:ALA:C	2.38	0.65
38:DI:131:LYS:HG2	38:DI:132:PRO:HA	1.79	0.65
45:DT:83:ILE:HG13	45:DT:84:GLN:N	2.10	0.65
1:AA:878:G:H5'	8:AH:89:PRO:HG2	1.77	0.65
2:AB:88:ALA:HB2	2:AB:219:VAL:CG1	2.26	0.65
31:BA:83:G:H1	31:BA:102:G:H2'	1.61	0.65
31:BA:482:A:H4'	50:BY:47:LYS:HZ2	1.62	0.65
31:BA:774:A:H2	31:BA:787:U:HO2'	1.39	0.65
31:BA:1598:C:H2'	31:BA:1599:C:H6	1.61	0.65
34:BE:1:MET:O	34:BE:2:LYS:C	2.39	0.65
35:BF:158:THR:HG23	35:BF:160:ASN:H	1.62	0.65
37:BH:30:LYS:HZ2	37:BH:81:GLU:HA	1.61	0.65
2:CB:100:GLY:N	2:CB:176:GLU:OE2	2.29	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:126:ILE:HG22	4:CD:127:THR:H	1.62	0.65
14:CN:48:ALA:HB2	14:CN:53:LEU:HD12	1.78	0.65
28:D6:30:THR:O	28:D6:31:PRO:C	2.38	0.65
31:DA:1694:C:O2'	31:DA:1695:G:C4	2.50	0.65
31:DA:2092:U:H4'	31:DA:2093:G:O5'	1.97	0.65
37:DH:44:VAL:HG12	37:DH:45:VAL:N	2.06	0.65
39:DN:39:ARG:CD	39:DN:41:ASP:HB2	2.26	0.65
39:DN:42:TRP:CA	39:DN:48:MET:HE1	2.27	0.65
41:DP:107:LYS:C	41:DP:109:GLY:H	2.02	0.65
42:DQ:20:ALA:O	42:DQ:22:LYS:N	2.30	0.65
44:DS:99:LYS:O	44:DS:101:LEU:HB2	1.96	0.65
1:AA:17:U:H2'	1:AA:18:C:H6	1.59	0.65
1:AA:1128:C:O2'	1:AA:1130:A:C8	2.48	0.65
2:AB:137:ARG:HA	2:AB:137:ARG:HH11	1.61	0.65
9:AI:17:VAL:HG11	9:AI:81:ILE:HD13	1.79	0.65
15:AO:26:GLU:HA	15:AO:81:LEU:HD22	1.78	0.65
22:B0:25:ARG:HD2	22:B0:29:GLN:HE21	1.60	0.65
23:B1:19:GLN:CD	23:B1:44:PRO:HG3	2.22	0.65
31:BA:1042:G:H3'	31:BA:1043:C:O4'	1.97	0.65
31:BA:1481:U:H5'	31:BA:1482:G:OP2	1.96	0.65
31:BA:1688:U:H1'	31:BA:1701:A:C6	2.31	0.65
31:BA:1720:U:H2'	31:BA:1721:G:O4'	1.97	0.65
31:BA:2206:G:C2	31:BA:2207:G:H5'	2.31	0.65
35:BF:160:ASN:ND2	35:BF:162:LEU:H	1.94	0.65
41:BP:40:SER:O	41:BP:41:ARG:HD2	1.97	0.65
43:BR:55:ALA:HB2	43:BR:79:LEU:CD1	2.27	0.65
1:CA:189(J):G:O2'	1:CA:189(K):U:H5'	1.95	0.65
1:CA:1095:U:H5"	1:CA:1109:C:O2	1.97	0.65
10:CJ:30:SER:HB2	10:CJ:80:LYS:HG3	1.78	0.65
22:D0:13:GLY:O	22:D0:14:ARG:CB	2.45	0.65
24:D2:54:LYS:N	24:D2:56:GLN:NE2	2.43	0.65
30:D8:6:THR:CG2	30:D8:63:PRO:HD3	2.26	0.65
31:DA:1578:U:OP2	31:DA:1578:U:H6	1.79	0.65
31:DA:2404:C:H2'	31:DA:2405:G:H5"	1.77	0.65
31:DA:2610:C:C4'	31:DA:2611:U:OP2	2.43	0.65
35:DF:66:PRO:O	35:DF:67:GLN:HB3	1.95	0.65
39:DN:112:LEU:HD12	39:DN:112:LEU:C	2.21	0.65
46:DU:68:ALA:O	46:DU:71:GLN:HB3	1.95	0.65
7:AG:152:ALA:O	7:AG:155:ARG:HG3	1.97	0.65
10:AJ:3:LYS:HD2	10:AJ:77:PRO:HD3	1.79	0.65
24:B2:31:GLU:HG2	24:B2:37:PHE:HD1	1.62	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B5:52:TYR:CD2	27:B5:52:TYR:N	2.62	0.65
28:B6:10:LEU:H	28:B6:10:LEU:HD22	1.62	0.65
31:BA:1348:G:C2'	31:BA:1349:A:H5"	2.25	0.65
31:BA:1459:G:C8	31:BA:1461:G:H1'	2.32	0.65
31:BA:1484:G:N2	31:BA:1505:C:C5	2.63	0.65
31:BA:2000:G:OP2	43:BR:3:HIS:CE1	2.50	0.65
31:BA:2106:G:H1'	31:BA:2184:G:H22	1.62	0.65
32:BB:74:U:C3'	32:BB:75:G:H5"	2.27	0.65
33:BD:125:ILE:HG21	33:BD:137:PRO:HG2	1.79	0.65
36:BG:23:PHE:HZ	36:BG:171:ALA:HB3	1.61	0.65
41:BP:71:VAL:HG13	41:BP:72:PRO:N	2.11	0.65
46:BU:90:VAL:O	46:BU:92:ARG:N	2.30	0.65
1:CA:920:U:O4'	1:CA:1080:A:C2	2.50	0.65
5:CE:78:HIS:CE1	5:CE:142:LEU:HD23	2.32	0.65
31:DA:729:G:OP2	33:DD:13:ARG:NH1	2.30	0.65
31:DA:1448:G:H1'	31:DA:1528:A:N6	2.10	0.65
33:DD:125:ILE:HG21	33:DD:137:PRO:HG2	1.79	0.65
41:DP:108:LYS:N	41:DP:108:LYS:HD2	2.11	0.65
50:DY:2:ARG:C	50:DY:4:LYS:H	2.05	0.65
1:AA:189(J):G:O2'	1:AA:189(K):U:H5'	1.96	0.65
1:AA:1112:C:O2	3:AC:178:LEU:HB2	1.95	0.65
2:AB:201:ILE:HG21	2:AB:214:ILE:HG21	1.79	0.65
6:AF:19:LEU:O	6:AF:19:LEU:HD23	1.97	0.65
31:BA:1332:G:N2	31:BA:1609:A:H2'	2.12	0.65
31:BA:1805:U:O2	33:BD:50:THR:HB	1.96	0.65
31:BA:2360:A:O2'	31:BA:2361:A:C5'	2.45	0.65
31:BA:2610:C:C4'	31:BA:2611:U:OP2	2.41	0.65
34:BE:116:VAL:CG2	34:BE:122:PHE:CG	2.80	0.65
41:BP:112:LEU:H	41:BP:128:HIS:HD2	1.44	0.65
42:BQ:141:GLN:HE22	51:BZ:89:PHE:HB3	1.60	0.65
47:BV:2:PHE:O	47:BV:14:VAL:O	2.15	0.65
47:BV:70:ILE:O	47:BV:71:LEU:HB2	1.95	0.65
9:CI:114:TYR:HE1	10:CJ:60:ARG:O	1.78	0.65
23:D1:92:LYS:C	23:D1:94:LEU:N	2.54	0.65
25:D3:43:ILE:O	25:D3:47:VAL:HG23	1.97	0.65
31:DA:1025:G:H8	31:DA:1025:G:OP1	1.80	0.65
35:DF:158:THR:HG23	35:DF:160:ASN:H	1.62	0.65
43:DR:33:ARG:HG2	43:DR:115:GLU:HG3	1.79	0.65
2:AB:163:PHE:HD2	2:AB:185:ILE:HG13	1.62	0.65
6:AF:91:VAL:HG11	18:AR:72:ARG:HH12	1.60	0.65
7:AG:47:CYS:O	7:AG:50:ILE:HB	1.96	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:114:TYR:HE1	10:AJ:60:ARG:O	1.79	0.65
16:AP:48:TRP:H	16:AP:48:TRP:HD1	1.44	0.65
20:AT:18:GLN:O	20:AT:22:ARG:HG3	1.97	0.65
20:AT:56:MET:HE1	20:AT:85:MET:HE2	1.79	0.65
26:B4:1:MET:H3	36:BG:67:LYS:NZ	1.94	0.65
31:BA:1379:A:O2'	31:BA:1380:G:OP1	2.13	0.65
31:BA:1899:G:N2	31:BA:1902:C:C5	2.64	0.65
33:BD:65:ILE:CD1	33:BD:67:PHE:CE1	2.73	0.65
35:BF:8:GLN:HB3	35:BF:126:VAL:HA	1.79	0.65
46:BU:31:SER:C	46:BU:33:ARG:H	2.05	0.65
1:CA:148:G:O2'	1:CA:149:A:H5'	1.97	0.65
10:CJ:51:ARG:HE	10:CJ:61:GLU:HB2	1.60	0.65
15:CO:62:GLN:HA	15:CO:65:ARG:NH1	2.11	0.65
23:D1:19:GLN:HE21	31:DA:379:G:N2	1.93	0.65
28:D6:51:GLU:O	28:D6:52:VAL:CB	2.45	0.65
31:DA:861:A:C2	31:DA:917:A:C4	2.85	0.65
31:DA:999:U:O2'	31:DA:1000:A:H5'	1.97	0.65
31:DA:2661:G:N7	31:DA:2662:A:C2	2.64	0.65
36:DG:115:ARG:NH1	36:DG:136:ARG:HG3	2.12	0.65
39:DN:89:LYS:O	39:DN:93:THR:HG22	1.96	0.65
49:DX:12:VAL:HG22	49:DX:29:TRP:CE2	2.32	0.65
1:AA:607:A:H2'	1:AA:608:A:O4'	1.97	0.65
1:AA:1095:U:H5"	1:AA:1109:C:O2	1.98	0.65
15:AO:56:LEU:O	15:AO:60:VAL:HG23	1.97	0.65
17:AQ:5:VAL:HG12	17:AQ:6:LEU:N	2.11	0.65
31:BA:669:G:C8	31:BA:669:G:O2'	2.50	0.65
31:BA:2022:U:O2'	31:BA:2617:C:H5'	1.97	0.65
31:BA:2661:G:C8	31:BA:2662:A:C2	2.85	0.65
32:BB:51:G:H5"	32:BB:52:A:OP2	1.97	0.65
38:BI:125:GLU:OE1	38:BI:141:LYS:HG2	1.96	0.65
49:BX:41:ASN:HA	49:BX:44:GLU:HB3	1.77	0.65
50:BY:29:GLU:OE1	50:BY:29:GLU:N	2.30	0.65
50:BY:39:VAL:O	50:BY:40:GLU:CD	2.40	0.65
1:CA:193:C:O2'	1:CA:194:C:H5'	1.97	0.65
1:CA:487:A:H2'	1:CA:488:C:O4'	1.97	0.65
1:CA:949:A:H1'	1:CA:1364:U:N3	2.12	0.65
2:CB:69:LEU:HD22	2:CB:91:PRO:HB2	1.78	0.65
2:CB:201:ILE:HG21	2:CB:214:ILE:HG21	1.78	0.65
31:DA:814:C:H5	41:DP:27:HIS:NE2	1.94	0.65
31:DA:911:A:C2'	42:DQ:9:TYR:OH	2.41	0.65
31:DA:1165:U:H2'	31:DA:1166:C:C6	2.32	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DF:32:LEU:HD11	35:DF:105:VAL:HG13	1.79	0.65
37:DH:89:ILE:O	37:DH:90:LYS:HG2	1.96	0.65
38:DI:82:ARG:HG2	38:DI:89:TYR:HD2	1.60	0.65
39:DN:56:ASN:H	39:DN:125:GLY:N	1.94	0.65
47:DV:51:VAL:CG1	47:DV:52:VAL:H	2.09	0.65
49:DX:77:LYS:CG	49:DX:78:LYS:HG3	2.26	0.65
3:AC:23:TYR:CG	3:AC:24:ALA:N	2.65	0.64
9:AI:114:TYR:N	9:AI:114:TYR:CD2	2.64	0.64
13:AM:68:GLY:CA	13:AM:71:ARG:HB3	2.27	0.64
25:B3:19:GLN:HE22	25:B3:52:HIS:CE1	2.15	0.64
31:BA:993:G:C5'	47:BV:75:PHE:CZ	2.81	0.64
31:BA:2315:G:H2'	31:BA:2316:C:C6	2.32	0.64
31:BA:2894:G:N3	31:BA:2894:G:H2'	2.12	0.64
34:BE:93:VAL:H	34:BE:95:ILE:CD1	2.07	0.64
43:BR:101:ALA:O	43:BR:102:GLU:HB2	1.97	0.64
1:CA:386:C:O2'	1:CA:387:U:H5'	1.96	0.64
1:CA:650:G:O2'	1:CA:651:C:H5'	1.98	0.64
24:D2:25:VAL:C	24:D2:27:GLU:H	2.05	0.64
30:D8:25:MET:HB2	41:DP:62:LEU:HD21	1.79	0.64
31:DA:157:U:H5'	31:DA:171:G:H22	1.62	0.64
31:DA:1225:G:OP1	47:DV:88:ARG:CB	2.45	0.64
31:DA:1493:C:H4'	31:DA:1494:A:OP1	1.97	0.64
31:DA:2334:G:H5'	44:DS:13:ARG:HB3	1.79	0.64
31:DA:2682:U:C5	34:DE:11:MET:HE2	2.31	0.64
31:DA:2761:G:C2'	31:DA:2762:G:H5"	2.27	0.64
32:DB:15:A:H5'	32:DB:16:G:H8	1.62	0.64
37:DH:126:PRO:HB2	37:DH:130:ARG:NH1	2.12	0.64
38:DI:54:GLN:HG2	38:DI:57:ARG:HH22	1.62	0.64
43:DR:4:LEU:O	43:DR:5:LYS:HD2	1.97	0.64
47:DV:62:LEU:HB3	47:DV:98:GLU:HA	1.79	0.64
1:AA:425:G:C2'	1:AA:426:G:H5'	2.27	0.64
1:AA:932:C:H4'	7:AG:4:ARG:NH2	2.12	0.64
2:AB:135:GLN:O	2:AB:139:LYS:HB2	1.98	0.64
4:AD:172:PRO:HB2	4:AD:187:ARG:HH22	1.62	0.64
5:AE:144:THR:O	5:AE:148:VAL:HG23	1.97	0.64
23:B1:86:SER:N	23:B1:87:PRO:CD	2.59	0.64
25:B3:19:GLN:NE2	25:B3:52:HIS:HE1	1.94	0.64
30:B8:39:LYS:HE2	30:B8:42:ARG:HH12	1.62	0.64
31:BA:774:A:C2	31:BA:787:U:O2'	2.50	0.64
31:BA:1116:C:H2'	31:BA:1117:G:H5'	1.78	0.64
31:BA:2888:C:H2'	31:BA:2889:C:H5"	1.79	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BB:86:G:H2'	32:BB:87:G:C8	2.33	0.64
39:BN:51:PHE:CZ	39:BN:119:ARG:HD2	2.32	0.64
45:BT:61:PHE:CZ	45:BT:85:LYS:HE2	2.33	0.64
48:BW:64:MET:O	48:BW:65:LEU:HB3	1.95	0.64
49:BX:31:HIS:HD2	49:BX:33:LYS:H	1.45	0.64
50:BY:8:LYS:NZ	50:BY:74:PRO:HD3	2.10	0.64
1:CA:626:U:H2'	1:CA:627:G:H8	1.61	0.64
1:CA:667:G:H4'	15:CO:51:HIS:CE1	2.32	0.64
20:CT:16:HIS:O	20:CT:19:SER:HB3	1.96	0.64
31:DA:1042:G:H3'	31:DA:1043:C:O4'	1.97	0.64
31:DA:1833:U:H2'	31:DA:1834:U:C6	2.32	0.64
31:DA:2000:G:OP2	43:DR:3:HIS:CE1	2.50	0.64
41:DP:14:LYS:O	41:DP:15:ARG:HB2	1.96	0.64
41:DP:16:ARG:HG3	41:DP:17:LYS:N	2.12	0.64
41:DP:62:LEU:CD2	41:DP:62:LEU:H	2.08	0.64
45:DT:32:TYR:HB3	45:DT:81:PRO:HB3	1.79	0.64
50:DY:45:VAL:CG1	50:DY:62:GLU:HB2	2.27	0.64
12:AL:47:LYS:CB	12:AL:48:PRO:HD3	2.23	0.64
23:B1:16:ASN:HB3	23:B1:46:LEU:HG	1.79	0.64
31:BA:536:A:H2'	31:BA:537:C:H6	1.60	0.64
35:BF:7:TYR:HD1	35:BF:8:GLN:H	1.46	0.64
41:BP:16:ARG:HG3	41:BP:17:LYS:N	2.11	0.64
41:BP:47:ASP:HB3	41:BP:48:PRO:CA	2.25	0.64
1:CA:1117:G:H4'	9:CI:104:ARG:NH2	2.12	0.64
7:CG:26:PHE:CE2	7:CG:30:ILE:HD11	2.32	0.64
18:CR:59:SER:HB3	18:CR:62:GLU:HG3	1.80	0.64
24:D2:32:LEU:C	24:D2:32:LEU:HD12	2.21	0.64
31:DA:536:A:H2'	31:DA:537:C:C6	2.32	0.64
31:DA:1038:C:H42	31:DA:1117:G:H1	1.45	0.64
31:DA:2408:U:H2'	31:DA:2409:G:C8	2.33	0.64
35:DF:103:LYS:HA	35:DF:106:ARG:HG3	1.79	0.64
39:DN:2:LYS:HZ3	46:DU:94:ASN:ND2	1.95	0.64
41:DP:17:LYS:O	41:DP:17:LYS:CG	2.45	0.64
45:DT:23:ARG:O	45:DT:25:GLY:N	2.31	0.64
49:DX:41:ASN:HA	49:DX:44:GLU:HB3	1.79	0.64
1:AA:192:U:C4'	20:AT:103:GLY:HA2	2.27	0.64
1:AA:1117:G:H4'	9:AI:104:ARG:NH2	2.13	0.64
5:AE:78:HIS:HE1	5:AE:143:ARG:H	1.45	0.64
10:AJ:33:GLN:HB2	10:AJ:75:ILE:HD13	1.79	0.64
11:AK:59:TYR:O	11:AK:62:GLN:HB3	1.98	0.64
27:B5:2:ALA:O	27:B5:3:LYS:HD2	1.98	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:6:THR:CG2	30:B8:63:PRO:HD3	2.27	0.64
30:B8:51:ALA:N	30:B8:53:PRO:HD2	2.13	0.64
31:BA:157:U:H5'	31:BA:171:G:H22	1.62	0.64
31:BA:323:G:H5'	35:BF:169:ASN:HD21	1.62	0.64
1:CA:674:G:H2'	1:CA:675:A:H8	1.62	0.64
1:CA:991:U:O2	1:CA:993:G:H8	1.81	0.64
6:CF:99:ALA:HB1	18:CR:23:LYS:NZ	2.12	0.64
9:CI:114:TYR:CD2	9:CI:114:TYR:N	2.64	0.64
31:DA:71:A:H2	49:DX:31:HIS:CE1	2.15	0.64
31:DA:92:A:H2'	31:DA:93:G:H8	1.63	0.64
31:DA:534:U:O2'	46:DU:49:HIS:HD2	1.81	0.64
31:DA:634:C:H2'	31:DA:635:C:C6	2.33	0.64
31:DA:1341:U:C2	49:DX:77:LYS:HE2	2.31	0.64
31:DA:2236:C:H2'	31:DA:2237:G:H5'	1.79	0.64
31:DA:2632:A:H1'	34:DE:61:ARG:CZ	2.27	0.64
32:DB:52:A:O2'	32:DB:53:A:C8	2.51	0.64
32:DB:86:G:H2'	32:DB:87:G:C8	2.32	0.64
34:DE:103:ASP:CG	34:DE:168:MET:HE2	2.22	0.64
47:DV:93:GLU:HG2	47:DV:94:LEU:N	2.13	0.64
50:DY:28:LYS:CB	50:DY:37:VAL:HB	2.27	0.64
1:AA:441:A:H3'	1:AA:442:C:C6	2.33	0.64
1:AA:545:C:O2'	1:AA:546:G:H5'	1.97	0.64
1:AA:1337:G:H5"	1:AA:1338:G:OP1	1.98	0.64
12:AL:6:THR:H	12:AL:9:GLN:HE21	1.45	0.64
20:AT:61:SER:O	20:AT:65:LYS:HG3	1.98	0.64
31:BA:1658:C:OP1	34:BE:132:HIS:ND1	2.31	0.64
31:BA:2405:G:O2'	31:BA:2406:U:OP1	2.15	0.64
35:BF:160:ASN:HD22	35:BF:162:LEU:H	1.45	0.64
36:BG:39:ILE:HB	36:BG:157:ILE:HG22	1.78	0.64
39:BN:13:TRP:HZ3	39:BN:130:HIS:HE1	1.44	0.64
1:CA:942:G:H21	9:CI:124:GLN:NE2	1.95	0.64
1:CA:1332:A:H8	1:CA:1332:A:O5'	1.80	0.64
8:CH:58:TYR:O	8:CH:59:LEU:HD23	1.97	0.64
24:D2:14:ARG:CZ	24:D2:57:ILE:HG22	2.28	0.64
27:D5:50:GLY:O	27:D5:51:TYR:HD1	1.80	0.64
30:D8:39:LYS:HE2	30:D8:42:ARG:HH12	1.62	0.64
31:DA:65:C:H2'	31:DA:66:C:C6	2.32	0.64
31:DA:807:U:C2'	31:DA:808:G:O5'	2.46	0.64
31:DA:1108:U:C2'	31:DA:1109:C:H5'	2.27	0.64
31:DA:1430:C:H2'	31:DA:1431:U:H6	1.61	0.64
31:DA:1486:A:N6	31:DA:1504:C:H42	1.95	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2492:U:H2'	31:DA:2493:U:H6	1.61	0.64
31:DA:2562:U:H1'	40:DO:23:ARG:HH11	1.63	0.64
31:DA:2825:C:C2'	31:DA:2826:A:H5'	2.27	0.64
36:DG:25:TYR:CZ	36:DG:32:PRO:HD3	2.33	0.64
42:DQ:27:VAL:HA	42:DQ:105:GLU:OE1	1.98	0.64
1:AA:627:G:H2'	1:AA:628:G:H8	1.61	0.64
1:AA:816:A:OP2	1:AA:1527:C:H5'	1.97	0.64
4:AD:79:PHE:CZ	4:AD:204:ILE:HD13	2.33	0.64
4:AD:146:ILE:HD12	4:AD:146:ILE:H	1.62	0.64
6:AF:23:LYS:O	6:AF:27:GLN:HG2	1.98	0.64
8:AH:20:TYR:HD1	8:AH:65:TYR:CD2	2.16	0.64
24:B2:18:PRO:O	24:B2:19:VAL:C	2.39	0.64
31:BA:1518:U:H2'	31:BA:1519:G:O4'	1.97	0.64
31:BA:1648:C:H2'	31:BA:1649:G:O5'	1.97	0.64
31:BA:2658:C:C5'	31:BA:2659:G:OP2	2.41	0.64
33:BD:270:ILE:C	33:BD:271:ILE:HG13	2.23	0.64
40:BO:90:GLN:O	40:BO:91:LEU:HB2	1.95	0.64
41:BP:112:LEU:H	41:BP:128:HIS:CD2	2.16	0.64
1:CA:1172:C:H2'	1:CA:1173:G:C8	2.32	0.64
6:CF:19:LEU:O	6:CF:19:LEU:HD23	1.98	0.64
19:CS:12:ASP:HB2	19:CS:15:LEU:HD23	1.80	0.64
27:D5:4:HIS:HB3	27:D5:5:PRO:HD3	1.80	0.64
27:D5:16:ARG:HG2	27:D5:16:ARG:NH1	2.01	0.64
30:D8:34:TRP:HD1	31:DA:2391:G:OP1	1.81	0.64
31:DA:1688:U:H1'	31:DA:1701:A:C6	2.32	0.64
37:DH:35:VAL:O	37:DH:37:VAL:HG23	1.98	0.64
38:DI:133:HIS:ND1	38:DI:134:PRO:HD2	2.13	0.64
1:AA:165:C:H2'	1:AA:166:G:C8	2.33	0.64
1:AA:487:A:H2'	1:AA:488:C:O4'	1.97	0.64
1:AA:826:C:H2'	1:AA:827:U:C6	2.33	0.64
1:AA:922:G:C6	1:AA:923:A:C6	2.86	0.64
6:AF:5:GLU:HG3	6:AF:93:SER:OG	1.98	0.64
6:AF:11:ASN:HB3	6:AF:14:LEU:HG	1.78	0.64
16:AP:3:LYS:O	16:AP:21:VAL:HA	1.98	0.64
23:B1:37:ILE:HD11	31:BA:2079:U:H4'	1.80	0.64
31:BA:244:A:C2	31:BA:255:A:C4	2.85	0.64
31:BA:1037:G:H1	31:BA:1118:C:H42	1.46	0.64
31:BA:2308:G:O6	31:BA:2310:A:H2'	1.97	0.64
31:BA:2347:C:H2'	31:BA:2348:U:C6	2.33	0.64
33:BD:127:VAL:HA	33:BD:193:VAL:HG13	1.78	0.64
33:BD:143:HIS:HD2	33:BD:144:ALA:HB2	1.63	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:156:ALA:C	37:BH:158:HIS:H	2.04	0.64
50:BY:8:LYS:HD3	50:BY:28:LYS:NZ	2.13	0.64
51:BZ:144:LEU:HD11	51:BZ:150:LEU:HD12	1.80	0.64
1:CA:425:G:H2'	1:CA:426:G:H5'	1.78	0.64
4:CD:5:ILE:HG22	4:CD:5:ILE:O	1.97	0.64
11:CK:111:ASP:HA	18:CR:84:LYS:HE2	1.78	0.64
11:CK:127:LYS:HE2	11:CK:127:LYS:CA	2.25	0.64
31:DA:330:A:H2	31:DA:1210:A:C2'	2.06	0.64
31:DA:1025:G:C4	31:DA:1135:C:H1'	2.33	0.64
31:DA:1512:U:O2'	31:DA:1513:C:H5'	1.98	0.64
31:DA:1744:C:H2'	31:DA:1745:C:H5'	1.80	0.64
31:DA:2831:G:H5'	31:DA:2834:G:O2'	1.98	0.64
47:DV:38:LEU:HD22	47:DV:58:VAL:HB	1.80	0.64
2:AB:97:TRP:HZ2	2:AB:102:LEU:HD13	1.63	0.64
9:AI:46:ALA:HA	9:AI:78:LYS:HZ2	1.63	0.64
14:AN:23:ARG:NH1	14:AN:30:ALA:HB2	2.13	0.64
24:B2:25:VAL:C	24:B2:27:GLU:H	2.06	0.64
24:B2:37:PHE:HZ	24:B2:43:GLN:HB2	1.63	0.64
31:BA:607:U:H3	31:BA:621:A:H2	1.42	0.64
31:BA:729:G:OP2	33:BD:13:ARG:NH1	2.31	0.64
31:BA:971:C:H2'	31:BA:972:G:H5'	1.79	0.64
31:BA:1298:C:H5"	31:BA:1299:G:OP2	1.98	0.64
31:BA:1831:G:H2'	31:BA:1832:C:H6	1.62	0.64
37:BH:98:LEU:HB2	37:BH:125:VAL:HG21	1.80	0.64
41:BP:62:LEU:N	41:BP:62:LEU:HD13	2.12	0.64
1:CA:67:C:H2'	1:CA:68:G:H8	1.61	0.64
1:CA:1237:C:H42	1:CA:1337:G:H1	1.46	0.64
2:CB:97:TRP:HZ2	2:CB:102:LEU:HD13	1.63	0.64
3:CC:23:TYR:CG	3:CC:24:ALA:N	2.66	0.64
4:CD:129:ASN:HD21	4:CD:144:ASP:HB3	1.63	0.64
22:D0:8:GLY:HA2	42:DQ:83:MET:HG2	1.80	0.64
30:D8:16:ILE:CD1	30:D8:57:ARG:HG2	2.24	0.64
31:DA:1742:G:N7	31:DA:1743:C:C2	2.65	0.64
31:DA:2310:A:O2'	31:DA:2311:A:H5"	1.98	0.64
33:DD:267:SER:O	33:DD:268:ARG:HB2	1.97	0.64
36:DG:13:GLU:O	36:DG:14:GLU:HB2	1.96	0.64
37:DH:88:LEU:O	37:DH:89:ILE:HG23	1.97	0.64
47:DV:43:GLU:CA	47:DV:48:GLY:HA2	2.28	0.64
1:AA:942:G:N2	9:AI:124:GLN:HE22	1.95	0.64
5:AE:136:MET:O	5:AE:139:LEU:N	2.31	0.64
10:AJ:34:VAL:CG2	10:AJ:74:ILE:HG22	2.28	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:6:LEU:HG	16:AP:17:TYR:HB3	1.78	0.64
28:B6:45:LYS:HE3	31:BA:2370:G:O2'	1.98	0.64
31:BA:146:G:H2'	31:BA:147:U:O4'	1.98	0.64
31:BA:1108:U:C2'	31:BA:1109:C:H5'	2.27	0.64
31:BA:1173:G:H3'	31:BA:1174:A:C5'	2.28	0.64
31:BA:1405:U:H2'	31:BA:1406:U:C6	2.32	0.64
31:BA:1510:G:H2'	31:BA:1511:C:C6	2.33	0.64
31:BA:1784:A:H4'	31:BA:1785:A:H5"	1.80	0.64
42:BQ:35:VAL:HG13	42:BQ:130:LYS:HB3	1.80	0.64
45:BT:65:LYS:CE	45:BT:66:VAL:H	2.01	0.64
47:BV:46:VAL:O	47:BV:47:VAL:HB	1.96	0.64
1:CA:192:U:C4'	20:CT:103:GLY:HA2	2.27	0.64
1:CA:193:C:H2'	1:CA:194:C:C6	2.33	0.64
7:CG:16:LEU:HD13	9:CI:45:ALA:HB2	1.77	0.64
31:DA:518:G:H4'	48:DW:18:ARG:CZ	2.27	0.64
31:DA:870:A:C2	31:DA:908:C:C2	2.86	0.64
31:DA:2327:A:H2'	31:DA:2328:A:C8	2.32	0.64
33:DD:70:TRP:CH2	33:DD:150:LYS:HA	2.32	0.64
34:DE:201:THR:HG22	34:DE:202:LYS:N	2.13	0.64
37:DH:144:VAL:O	37:DH:148:ILE:HG12	1.98	0.64
42:DQ:8:LYS:CG	42:DQ:9:TYR:N	2.59	0.64
46:DU:88:ILE:HD12	46:DU:88:ILE:H	1.62	0.64
47:DV:80:GLN:C	47:DV:80:GLN:OE1	2.41	0.64
48:DW:6:ILE:HA	48:DW:103:ILE:O	1.98	0.64
51:DZ:144:LEU:HD11	51:DZ:150:LEU:HD12	1.78	0.64
1:AA:942:G:H21	9:AI:124:GLN:NE2	1.95	0.64
22:B0:29:GLN:O	22:B0:67:VAL:HG23	1.97	0.64
29:B7:34:ARG:NH1	29:B7:39:ARG:HG3	2.12	0.64
31:BA:207:A:H2'	31:BA:208:C:O4'	1.98	0.64
31:BA:1138:G:O2'	39:BN:105:GLY:HA3	1.97	0.64
33:BD:253:GLN:CB	33:BD:255:LYS:HZ3	2.10	0.64
36:BG:102:PHE:HE2	36:BG:141:PHE:CE1	2.16	0.64
37:BH:148:ILE:O	37:BH:151:ILE:HG12	1.98	0.64
48:BW:70:TYR:H	48:BW:70:TYR:HD2	1.46	0.64
1:CA:1057:G:H5"	3:CC:154:SER:HB2	1.79	0.64
2:CB:135:GLN:O	2:CB:139:LYS:HB2	1.97	0.64
7:CG:4:ARG:HB3	7:CG:5:ARG:HH11	1.62	0.64
7:CG:152:ALA:O	7:CG:155:ARG:HG3	1.98	0.64
24:D2:47:ASN:ND2	24:D2:48:HIS:N	2.45	0.64
31:DA:2657:A:H2	31:DA:2664:G:N2	1.95	0.64
33:DD:182:LEU:O	33:DD:271:ILE:HD12	1.98	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DE:120:TRP:CE3	34:DE:155:LYS:HD3	2.32	0.64
35:DF:164:ARG:HG2	35:DF:164:ARG:NH1	2.13	0.64
41:DP:85:LEU:HA	41:DP:88:LEU:HB2	1.79	0.64
42:DQ:20:ALA:HB2	42:DQ:99:PRO:HD2	1.78	0.64
46:DU:8:VAL:HG11	46:DU:12:ARG:CZ	2.28	0.64
48:DW:86:LEU:C	48:DW:86:LEU:HD12	2.23	0.64
49:DX:85:PRO:O	49:DX:86:GLY:C	2.40	0.64
50:DY:100:ALA:O	50:DY:101:LYS:CB	2.46	0.64
1:AA:59:A:H5"	1:AA:60:A:C5'	2.28	0.63
1:AA:407:G:H5'	4:AD:3:ARG:NH1	2.13	0.63
31:BA:1359:A:C8	31:BA:1372:U:O4	2.51	0.63
31:BA:1796:U:H2'	31:BA:1797:C:C6	2.33	0.63
31:BA:2476:A:C2	31:BA:2477:C:C6	2.86	0.63
31:BA:2756:U:H4'	31:BA:2757:A:OP1	1.97	0.63
31:BA:2762:G:H5'	31:BA:2762:G:H8	1.63	0.63
33:BD:161:THR:HG23	33:BD:196:VAL:HG21	1.80	0.63
39:BN:57:ALA:O	39:BN:58:ASP:C	2.40	0.63
49:BX:40:LYS:O	49:BX:42:ALA:N	2.29	0.63
49:BX:72:LYS:HG3	49:BX:74:PRO:CD	2.27	0.63
50:BY:28:LYS:CB	50:BY:37:VAL:HB	2.27	0.63
51:BZ:7:ALA:O	51:BZ:61:LEU:HD23	1.98	0.63
1:CA:60:A:H4'	1:CA:61:G:O5'	1.99	0.63
1:CA:544:G:H2'	1:CA:545:C:C6	2.33	0.63
1:CA:624:C:H2'	1:CA:625:G:H8	1.62	0.63
1:CA:814:A:N7	1:CA:816:A:C4	2.66	0.63
2:CB:22:LYS:HZ3	2:CB:22:LYS:HA	1.62	0.63
7:CG:97:GLN:O	7:CG:101:LEU:HG	1.97	0.63
11:CK:59:TYR:O	11:CK:62:GLN:HB3	1.98	0.63
25:D3:19:GLN:NE2	25:D3:52:HIS:CE1	2.65	0.63
25:D3:40:THR:HG23	25:D3:43:ILE:CG1	2.28	0.63
27:D5:2:ALA:O	27:D5:3:LYS:HD2	1.97	0.63
31:DA:631:A:O2'	41:DP:67:MET:HB3	1.98	0.63
31:DA:1047:G:H2'	31:DA:1110:G:N2	2.13	0.63
31:DA:2206:G:C2	31:DA:2207:G:H5'	2.32	0.63
31:DA:2772:C:H2'	31:DA:2773:C:C6	2.34	0.63
31:DA:2849:U:OP2	45:DT:95:ARG:NH1	2.31	0.63
33:DD:43:ARG:HH11	33:DD:44:ASN:CG	2.06	0.63
34:DE:93:VAL:H	34:DE:95:ILE:CD1	2.06	0.63
35:DF:181:LEU:HB3	35:DF:205:ARG:HH12	1.63	0.63
38:DI:6:LEU:O	38:DI:15:VAL:HB	1.97	0.63
41:DP:102:ARG:O	41:DP:103:ALA:HB2	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DR:71:GLN:HE21	43:DR:71:GLN:CA	2.12	0.63
46:DU:31:SER:C	46:DU:33:ARG:H	2.06	0.63
48:DW:70:TYR:HD2	48:DW:70:TYR:H	1.45	0.63
3:AC:73:PRO:HA	3:AC:76:VAL:HG13	1.80	0.63
10:AJ:30:SER:HB2	10:AJ:80:LYS:HG3	1.79	0.63
23:B1:37:ILE:HD12	23:B1:37:ILE:O	1.98	0.63
24:B2:32:LEU:C	24:B2:32:LEU:HD12	2.22	0.63
30:B8:6:THR:CG2	31:BA:243:U:OP1	2.46	0.63
31:BA:942:G:O2'	31:BA:943:U:H5'	1.98	0.63
31:BA:1372:U:H2'	31:BA:1373:A:O4'	1.98	0.63
31:BA:2562:U:H1'	40:BO:23:ARG:NH1	2.14	0.63
36:BG:7:LEU:HB2	36:BG:104:GLU:OE2	1.97	0.63
1:CA:192:U:H2'	1:CA:193:C:C6	2.32	0.63
2:CB:213:LEU:O	2:CB:213:LEU:HD23	1.99	0.63
5:CE:78:HIS:CE1	5:CE:143:ARG:H	2.17	0.63
16:CP:48:TRP:H	16:CP:48:TRP:HD1	1.43	0.63
31:DA:587:C:C4'	31:DA:588:U:OP2	2.46	0.63
31:DA:614:U:O2	31:DA:614:U:O5'	2.16	0.63
31:DA:1766:U:H2'	31:DA:1767:C:C6	2.33	0.63
37:DH:17:VAL:HG21	37:DH:50:VAL:HG21	1.81	0.63
37:DH:70:THR:O	37:DH:71:LEU:C	2.39	0.63
42:DQ:30:GLY:CA	42:DQ:107:ALA:HB2	2.28	0.63
47:DV:38:LEU:HG	47:DV:39:LEU:N	2.13	0.63
1:AA:447:G:H2'	1:AA:485:G:N2	2.14	0.63
1:AA:544:G:H2'	1:AA:545:C:C6	2.32	0.63
17:AQ:59:ILE:CG2	17:AQ:71:PHE:HB3	2.29	0.63
31:BA:587:C:C4'	31:BA:588:U:OP2	2.47	0.63
31:BA:1025:G:C4	31:BA:1135:C:H1'	2.33	0.63
31:BA:1278:A:O3'	43:BR:34:ILE:HD11	1.98	0.63
31:BA:2364:C:H2'	31:BA:2365:G:O4'	1.98	0.63
31:BA:2392:A:H2	31:BA:2424:C:H42	1.46	0.63
35:BF:24:LEU:HB3	35:BF:25:PRO:CD	2.28	0.63
35:BF:164:ARG:HG2	35:BF:164:ARG:NH1	2.12	0.63
37:BH:41:MET:HA	37:BH:41:MET:CE	2.28	0.63
42:BQ:20:ALA:O	42:BQ:22:LYS:N	2.31	0.63
43:BR:10:LEU:HB3	43:BR:17:ARG:CZ	2.27	0.63
43:BR:71:GLN:HA	43:BR:71:GLN:NE2	2.12	0.63
46:BU:104:GLN:HB2	47:BV:43:GLU:CD	2.24	0.63
47:BV:83:ARG:HH11	47:BV:83:ARG:HG3	1.63	0.63
1:CA:859:A:H2'	1:CA:860:A:O4'	1.98	0.63
2:CB:163:PHE:HD2	2:CB:185:ILE:HG13	1.63	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:52:ILE:O	6:CF:53:ALA:HB3	1.98	0.63
20:CT:56:MET:HG2	20:CT:84:LEU:HD11	1.79	0.63
31:DA:11:G:C2'	31:DA:12:U:H5'	2.27	0.63
31:DA:376:C:H42	31:DA:398:G:H1	1.45	0.63
31:DA:479:A:H4'	31:DA:480:A:OP1	1.97	0.63
31:DA:1173:G:H3'	31:DA:1174:A:C5'	2.28	0.63
31:DA:1652:A:H8	31:DA:1652:A:C5'	2.11	0.63
33:DD:16:MET:HA	33:DD:205:VAL:HG12	1.80	0.63
35:DF:3:GLU:O	35:DF:24:LEU:HG	1.98	0.63
40:DO:104:ARG:NH2	45:DT:33:LYS:HD2	2.13	0.63
46:DU:104:GLN:HB2	47:DV:43:GLU:CD	2.24	0.63
47:DV:66:ARG:NH1	47:DV:94:LEU:HD11	2.13	0.63
49:DX:73:ARG:N	49:DX:74:PRO:CD	2.60	0.63
1:AA:63:C:N4	1:AA:104:G:H1	1.94	0.63
1:AA:194:C:C2'	1:AA:195:A:H5"	2.28	0.63
1:AA:624:C:H2'	1:AA:625:G:H8	1.62	0.63
1:AA:1332:A:H8	1:AA:1332:A:O5'	1.81	0.63
1:AA:1416:G:H2'	1:AA:1417:G:O4'	1.98	0.63
5:AE:33:VAL:HG11	5:AE:109:ILE:HA	1.79	0.63
7:AG:4:ARG:HB3	7:AG:5:ARG:HH11	1.63	0.63
8:AH:1:MET:HE2	8:AH:1:MET:N	2.12	0.63
23:B1:26:ARG:CG	23:B1:34:THR:HB	2.29	0.63
31:BA:494:G:OP1	48:BW:8:ARG:NH1	2.32	0.63
31:BA:912:C:C2	31:BA:913:U:C5	2.86	0.63
31:BA:943:U:OP2	41:BP:38:GLN:CD	2.41	0.63
31:BA:1190:G:H5'	41:BP:35:HIS:CA	2.28	0.63
31:BA:2580:U:H5"	34:BE:131:ALA:H	1.63	0.63
33:BD:49:ILE:HD13	33:BD:49:ILE:O	1.99	0.63
35:BF:2:LYS:O	35:BF:25:PRO:HG2	1.98	0.63
36:BG:13:GLU:O	36:BG:14:GLU:HB2	1.97	0.63
39:BN:59:LYS:O	39:BN:60:ILE:C	2.41	0.63
44:BS:99:LYS:O	44:BS:101:LEU:HB2	1.97	0.63
45:BT:28:VAL:HG22	45:BT:46:GLU:HA	1.80	0.63
49:BX:85:PRO:O	49:BX:86:GLY:C	2.42	0.63
50:BY:2:ARG:C	50:BY:4:LYS:H	2.06	0.63
1:CA:80:G:H1	1:CA:89:C:N4	1.96	0.63
4:CD:17:VAL:HG11	4:CD:197:PRO:HB2	1.81	0.63
23:D1:87:PRO:HB2	23:D1:91:LYS:HZ2	1.62	0.63
31:DA:143(A):C:O2	31:DA:143(A):C:H2'	1.97	0.63
31:DA:2658:C:C5'	31:DA:2659:G:OP2	2.45	0.63
31:DA:2751:G:H3'	31:DA:2752:C:H6	1.62	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DE:116:VAL:CG2	34:DE:122:PHE:CG	2.81	0.63
37:DH:156:ALA:H	37:DH:158:HIS:N	1.96	0.63
39:DN:128:HIS:HD2	39:DN:131:GLN:HB2	1.62	0.63
41:DP:30:THR:CG2	41:DP:31:ALA:H	2.07	0.63
46:DU:27:LEU:HD23	46:DU:27:LEU:H	1.64	0.63
48:DW:64:MET:O	48:DW:65:LEU:HB3	1.97	0.63
2:AB:141:GLU:O	2:AB:145:LEU:HB2	1.98	0.63
12:AL:90:VAL:O	12:AL:92:ASP:N	2.32	0.63
27:B5:16:ARG:HG2	27:B5:16:ARG:NH1	2.03	0.63
31:BA:288:C:H42	31:BA:353:G:H1	1.44	0.63
31:BA:867:C:C5	31:BA:868:U:C5	2.86	0.63
31:BA:2408:U:H2'	31:BA:2409:G:C8	2.34	0.63
33:BD:35:LYS:CE	33:BD:65:ILE:HG22	2.29	0.63
34:BE:151:TYR:HD2	34:BE:154:LYS:HZ3	1.47	0.63
34:BE:201:THR:HG22	34:BE:202:LYS:N	2.13	0.63
35:BF:183:VAL:O	35:BF:187:VAL:HG23	1.97	0.63
42:BQ:141:GLN:HE21	51:BZ:72:ARG:N	1.97	0.63
45:BT:32:TYR:HB3	45:BT:81:PRO:HB3	1.81	0.63
4:CD:141:ARG:HB3	4:CD:142:PRO:CD	2.28	0.63
5:CE:32:VAL:HB	5:CE:58:ALA:HB1	1.81	0.63
30:D8:13:ARG:HD2	41:DP:61:ARG:HD3	1.80	0.63
30:D8:56:GLU:HA	30:D8:59:LYS:NZ	2.14	0.63
31:DA:143:G:H2'	31:DA:143(A):C:C6	2.28	0.63
31:DA:175:G:H8	31:DA:175:G:C5'	2.11	0.63
31:DA:301:G:C4	31:DA:302:C:C5	2.87	0.63
31:DA:598:G:H5'	41:DP:15:ARG:HD2	1.80	0.63
31:DA:1332:G:N2	31:DA:1609:A:H2'	2.13	0.63
31:DA:1880:C:H6	31:DA:1880:C:H5'	1.63	0.63
31:DA:2572:A:N7	34:DE:144:ARG:HD2	2.13	0.63
31:DA:2733:A:O2'	31:DA:2734:A:H5'	1.97	0.63
35:DF:102:PRO:HB2	35:DF:105:VAL:HG23	1.81	0.63
38:DI:8:PRO:O	38:DI:9:LEU:HD23	1.99	0.63
44:DS:29:PHE:H	44:DS:89:ARG:HD2	1.59	0.63
50:DY:90:LEU:HD12	50:DY:91:GLU:HG2	1.81	0.63
2:AB:61:LEU:CD2	2:AB:68:ILE:HD11	2.29	0.63
2:AB:167:PRO:HG2	2:AB:192:SER:HB3	1.81	0.63
18:AR:59:SER:HB3	18:AR:62:GLU:HG3	1.80	0.63
24:B2:45:SER:HB3	24:B2:48:HIS:HB3	1.79	0.63
31:BA:542:C:N4	31:BA:543:C:N4	2.47	0.63
33:BD:44:ASN:HB2	33:BD:48:ARG:O	1.98	0.63
37:BH:68:THR:O	37:BH:69:ARG:C	2.42	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1478:C:H2'	1:CA:1479:C:H6	1.64	0.63
3:CC:24:ALA:HB1	3:CC:28:GLN:O	1.99	0.63
16:CP:6:LEU:HG	16:CP:17:TYR:CB	2.29	0.63
27:D5:7:PRO:HA	31:DA:2615:U:C2	2.33	0.63
31:DA:83:G:N2	31:DA:102:G:O2'	2.29	0.63
31:DA:322:A:H5'	31:DA:340:A:H1'	1.81	0.63
31:DA:1518:U:H2'	31:DA:1519:G:O4'	1.99	0.63
31:DA:2517:C:C6	31:DA:2542:A:N1	2.67	0.63
33:DD:101:GLU:HG3	33:DD:102:LYS:N	2.10	0.63
37:DH:156:ALA:C	37:DH:158:HIS:H	2.06	0.63
41:DP:83:VAL:CG1	41:DP:112:LEU:HD21	2.28	0.63
44:DS:33:LYS:HB3	44:DS:34:HIS:HD2	1.64	0.63
46:DU:69:CYS:HB3	46:DU:106:PHE:CZ	2.34	0.63
1:AA:262:A:C6	1:AA:263:A:C6	2.87	0.63
23:B1:89:GLU:OE2	23:B1:90:ILE:N	2.27	0.63
24:B2:45:SER:HB3	24:B2:48:HIS:CB	2.27	0.63
24:B2:47:ASN:C	24:B2:49:LYS:H	2.05	0.63
31:BA:184:C:H2'	31:BA:185:U:H6	1.63	0.63
31:BA:1021:A:H3'	31:BA:1021:A:C8	2.32	0.63
35:BF:84:VAL:O	35:BF:85:GLY:C	2.41	0.63
37:BH:70:THR:O	37:BH:73:ALA:N	2.32	0.63
38:BI:131:LYS:HG2	38:BI:132:PRO:HA	1.81	0.63
45:BT:35:LYS:O	45:BT:37:GLY:N	2.30	0.63
46:BU:91:ASP:O	46:BU:92:ARG:O	2.17	0.63
47:BV:43:GLU:CA	47:BV:48:GLY:HA2	2.28	0.63
48:BW:18:ARG:HG2	48:BW:18:ARG:HH11	1.64	0.63
49:BX:83:VAL:O	49:BX:84:ALA:CB	2.46	0.63
51:BZ:63:ASP:O	51:BZ:65:GLN:N	2.31	0.63
1:CA:373:A:H2'	1:CA:374:A:H8	1.63	0.63
2:CB:141:GLU:O	2:CB:145:LEU:HB2	1.99	0.63
7:CG:62:PHE:HA	7:CG:124:LEU:HD22	1.80	0.63
11:CK:58:PRO:HA	11:CK:90:GLY:HA2	1.80	0.63
24:D2:16:LEU:N	24:D2:18:PRO:HD2	2.13	0.63
27:D5:29:THR:HG21	31:DA:2815:C:H5'	1.81	0.63
30:D8:51:ALA:N	30:D8:53:PRO:HD2	2.14	0.63
31:DA:271(E):U:H2'	31:DA:271(F):C:C6	2.34	0.63
31:DA:1163:G:O2'	31:DA:1164:G:H5'	1.99	0.63
31:DA:1902:C:H1'	33:DD:244:ARG:HD3	1.81	0.63
31:DA:2405:G:O2'	31:DA:2406:U:P	2.56	0.63
31:DA:2807:G:C2	31:DA:2808:U:H1'	2.34	0.63
34:DE:52:LEU:HB3	34:DE:75:VAL:HG23	1.80	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DI:92:VAL:HG13	38:DI:120:ILE:HB	1.80	0.63
45:DT:24:PRO:HA	45:DT:49:VAL:HG22	1.80	0.63
45:DT:109:GLU:O	45:DT:112:ARG:HG3	1.99	0.63
50:DY:71:LYS:HB2	50:DY:71:LYS:HZ3	1.63	0.63
1:AA:590:C:H2'	1:AA:591:U:H6	1.63	0.63
1:AA:617:G:N1	1:AA:618:C:C4	2.67	0.63
1:AA:814:A:N7	1:AA:816:A:C4	2.67	0.63
2:AB:22:LYS:NZ	2:AB:40:HIS:HE1	1.96	0.63
2:AB:101:MET:HA	2:AB:108:ILE:HG13	1.81	0.63
2:AB:204:ASN:HD22	2:AB:206:ASP:H	1.46	0.63
11:AK:121:PRO:HD2	11:AK:126:ARG:HG3	1.80	0.63
23:B1:9:GLY:O	23:B1:10:LYS:HB3	1.98	0.63
30:B8:35:GLN:HA	31:BA:2420:C:OP2	1.98	0.63
31:BA:879:G:H1	31:BA:898:C:H42	1.46	0.63
31:BA:1488:G:C6	31:BA:1489:U:N3	2.66	0.63
31:BA:1493:C:H4'	31:BA:1494:A:OP1	1.99	0.63
31:BA:1528(A):A:C5	31:BA:1529:G:H8	2.17	0.63
31:BA:1652:A:C2'	31:BA:1653:G:H5'	2.29	0.63
31:BA:1771:C:H1'	31:BA:1786:A:C8	2.33	0.63
35:BF:3:GLU:O	35:BF:24:LEU:HG	1.99	0.63
37:BH:40:GLU:O	37:BH:41:MET:HB2	1.99	0.63
42:BQ:17:LEU:HD23	42:BQ:17:LEU:N	2.12	0.63
45:BT:109:GLU:O	45:BT:112:ARG:HG3	1.99	0.63
1:CA:617:G:C6	1:CA:618:C:C5	2.86	0.63
1:CA:1277:C:H2'	1:CA:1278:U:H5'	1.80	0.63
1:CA:1337:G:H5"	1:CA:1338:G:OP1	1.99	0.63
2:CB:22:LYS:NZ	2:CB:40:HIS:HE1	1.97	0.63
3:CC:58:GLU:H	3:CC:65:ALA:HB3	1.64	0.63
3:CC:100:ALA:O	3:CC:101:LEU:HB2	1.98	0.63
26:D4:1:MET:H3	36:DG:67:LYS:NZ	1.94	0.63
31:DA:251:A:C5'	41:DP:51:PHE:HZ	2.11	0.63
31:DA:1485:G:H5'	31:DA:1486:A:OP2	1.99	0.63
31:DA:2713:A:H3'	31:DA:2714:G:H5'	1.80	0.63
37:DH:86:GLU:CB	37:DH:132:ARG:HB3	2.27	0.63
41:DP:13:ASN:C	41:DP:13:ASN:HD22	2.05	0.63
41:DP:26:GLY:HA2	41:DP:30:THR:CG2	2.28	0.63
47:DV:2:PHE:CB	47:DV:42:GLY:HA2	2.27	0.63
50:DY:81:LYS:HG2	50:DY:96:ILE:HG23	1.81	0.63
51:DZ:39:VAL:CG2	51:DZ:44:PHE:HB2	2.29	0.63
1:AA:343:U:N3	1:AA:347:G:C6	2.67	0.63
1:AA:635:G:C5	1:AA:636:U:C5	2.86	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:60:PHE:C	6:AF:61:LEU:HD12	2.24	0.63
20:AT:56:MET:HG2	20:AT:84:LEU:HD11	1.80	0.63
23:B1:10:LYS:O	23:B1:13:ILE:CG2	2.47	0.63
23:B1:19:GLN:HE21	31:BA:379:G:N2	1.93	0.63
30:B8:54:GLU:O	30:B8:58:ILE:HG12	1.96	0.63
31:BA:479:A:H4'	31:BA:480:A:OP1	1.98	0.63
31:BA:830:G:H4'	31:BA:831:G:OP2	1.99	0.63
31:BA:1722:A:N6	31:BA:1741:A:C2	2.66	0.63
31:BA:2492:U:H2'	31:BA:2493:U:H6	1.63	0.63
31:BA:2572:A:C8	34:BE:144:ARG:HD2	2.34	0.63
31:BA:2733:A:O2'	31:BA:2734:A:H5'	1.99	0.63
33:BD:35:LYS:CG	33:BD:64:ILE:H	2.10	0.63
33:BD:232:PRO:HG2	33:BD:248:SER:O	1.98	0.63
35:BF:124:LEU:HD12	35:BF:125:LEU:N	2.14	0.63
36:BG:64:THR:HG23	36:BG:65:GLY:N	2.14	0.63
37:BH:17:VAL:HG21	37:BH:50:VAL:HG21	1.81	0.63
41:BP:64:LYS:C	41:BP:66:GLY:N	2.57	0.63
49:BX:72:LYS:CG	49:BX:74:PRO:HD3	2.27	0.63
1:CA:745:C:H2'	1:CA:746:A:C8	2.33	0.63
6:CF:5:GLU:HG3	6:CF:93:SER:OG	1.99	0.63
16:CP:72:ARG:HH21	16:CP:73:LEU:CD2	2.08	0.63
24:D2:31:GLU:HG2	24:D2:37:PHE:HD1	1.63	0.63
24:D2:47:ASN:ND2	24:D2:48:HIS:H	1.97	0.63
28:D6:39:TYR:O	28:D6:49:HIS:CE1	2.51	0.63
31:DA:1204:A:N1	31:DA:1241:A:C2	2.66	0.63
31:DA:1484:G:N2	31:DA:1505:C:C5	2.63	0.63
31:DA:2661:G:C8	31:DA:2662:A:C2	2.87	0.63
32:DB:75:G:H5'	32:DB:75:G:C8	2.26	0.63
33:DD:35:LYS:NZ	33:DD:64:ILE:O	2.28	0.63
33:DD:127:VAL:HA	33:DD:193:VAL:HG13	1.79	0.63
38:DI:56:LYS:HA	38:DI:59:ALA:HB3	1.81	0.63
1:AA:32:A:H2'	1:AA:33:A:C8	2.34	0.62
1:AA:409:G:C2'	1:AA:410:G:H5'	2.28	0.62
1:AA:785:G:C2'	1:AA:786:G:H5'	2.29	0.62
1:AA:830:G:H2'	1:AA:831:U:H6	1.62	0.62
1:AA:877:C:H5"	8:AH:88:LYS:CD	2.29	0.62
1:AA:1128:C:H5'	9:AI:16:ARG:NH1	2.14	0.62
24:B2:30:ARG:NH2	49:BX:11:PRO:HG3	2.13	0.62
24:B2:44:LEU:O	24:B2:44:LEU:HD12	1.99	0.62
31:BA:1190:G:H5'	41:BP:35:HIS:HB3	1.79	0.62
31:BA:1515:G:H2'	31:BA:1516:C:C6	2.34	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:101:GLU:HG3	33:BD:102:LYS:N	2.12	0.62
33:BD:158:ALA:O	33:BD:159:ALA:HB2	1.99	0.62
35:BF:3:GLU:HA	35:BF:24:LEU:HB3	1.80	0.62
36:BG:139:LEU:HA	36:BG:144:ILE:HG23	1.80	0.62
38:BI:56:LYS:HZ2	38:BI:57:ARG:N	1.97	0.62
45:BT:33:LYS:HA	45:BT:33:LYS:HZ2	1.64	0.62
49:BX:37:THR:C	49:BX:38:GLU:OE1	2.41	0.62
1:CA:922:G:O2'	1:CA:1398:A:N1	2.30	0.62
2:CB:163:PHE:HA	2:CB:185:ILE:HG12	1.81	0.62
2:CB:187:LEU:HA	2:CB:201:ILE:HB	1.81	0.62
5:CE:144:THR:O	5:CE:148:VAL:HG23	1.99	0.62
6:CF:23:LYS:O	6:CF:27:GLN:HG2	1.98	0.62
12:CL:62:SER:C	12:CL:64:TYR:H	2.07	0.62
12:CL:90:VAL:O	12:CL:92:ASP:N	2.32	0.62
31:DA:607:U:OP1	35:DF:102:PRO:HA	1.99	0.62
31:DA:1332:G:N2	31:DA:1610:A:C8	2.67	0.62
31:DA:1481:U:H5'	31:DA:1482:G:OP2	1.98	0.62
31:DA:1786:A:C2	31:DA:2606:C:H1'	2.33	0.62
31:DA:1794:U:H2'	31:DA:1795:C:C6	2.33	0.62
31:DA:2292:C:C2'	31:DA:2293:C:H5'	2.28	0.62
31:DA:2415:G:O3'	41:DP:66:GLY:HA3	1.98	0.62
31:DA:2853:C:H2'	31:DA:2854:G:H8	1.64	0.62
34:DE:51:PHE:CE1	34:DE:52:LEU:HD13	2.33	0.62
36:DG:102:PHE:HE2	36:DG:141:PHE:CE1	2.17	0.62
41:DP:50:ARG:HG2	41:DP:50:ARG:NH2	2.09	0.62
42:DQ:52:VAL:HA	42:DQ:55:VAL:CG1	2.27	0.62
42:DQ:141:GLN:HG2	51:DZ:71:VAL:O	1.98	0.62
47:DV:72:VAL:CA	47:DV:88:ARG:HH22	2.10	0.62
47:DV:80:GLN:OE1	47:DV:80:GLN:O	2.16	0.62
51:DZ:8:TYR:HB2	51:DZ:38:TYR:CZ	2.34	0.62
1:AA:1085:U:C6	1:AA:1094:G:N1	2.67	0.62
1:AA:1096:C:H2'	1:AA:1097:C:H6	1.63	0.62
4:AD:119:GLN:O	4:AD:123:HIS:CD2	2.52	0.62
18:AR:66:LEU:HD11	18:AR:70:ILE:HD11	1.80	0.62
20:AT:86:ARG:O	20:AT:90:GLN:HG3	1.99	0.62
24:B2:14:ARG:CZ	24:B2:57:ILE:HG22	2.29	0.62
31:BA:708:C:O2	31:BA:708:C:H2'	1.99	0.62
31:BA:1165:U:H2'	31:BA:1166:C:C6	2.35	0.62
31:BA:1407:C:O2	31:BA:1407:C:H2'	1.98	0.62
44:BS:28:VAL:HG12	44:BS:29:PHE:N	2.14	0.62
1:CA:635:G:C5	1:CA:636:U:C5	2.87	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:785:G:C2'	1:CA:786:G:H5'	2.28	0.62
4:CD:138:TYR:C	4:CD:138:TYR:HD2	2.06	0.62
4:CD:162:LEU:O	4:CD:165:MET:HB2	2.00	0.62
5:CE:18:ARG:NH2	5:CE:25:ARG:HG2	2.14	0.62
10:CJ:33:GLN:HB2	10:CJ:75:ILE:HD13	1.80	0.62
15:CO:71:GLN:HG3	15:CO:78:TYR:CD2	2.35	0.62
31:DA:272(J):C:H42	31:DA:363(A):A:N6	1.96	0.62
31:DA:879:G:H1	31:DA:898:C:H42	1.46	0.62
31:DA:1378:A:H4'	31:DA:1379:A:OP1	1.98	0.62
31:DA:1406:U:H2'	31:DA:1407:C:C6	2.34	0.62
31:DA:2360:A:O2'	31:DA:2361:A:C5'	2.47	0.62
31:DA:2801(A):A:H4'	31:DA:2802:G:H2'	1.81	0.62
43:DR:24:GLN:HE22	43:DR:36:THR:HG21	1.63	0.62
47:DV:4:ILE:O	47:DV:39:LEU:HB3	1.99	0.62
50:DY:8:LYS:HD3	50:DY:28:LYS:NZ	2.14	0.62
1:AA:60:A:H4'	1:AA:61:G:O5'	1.99	0.62
1:AA:370:C:H2'	1:AA:371:G:H8	1.61	0.62
1:AA:1057:G:H5"	3:AC:154:SER:HB2	1.80	0.62
4:AD:60:GLU:HG2	4:AD:202:LEU:HB2	1.82	0.62
8:AH:6:ILE:HB	8:AH:85:ARG:NH1	2.14	0.62
30:B8:23:VAL:HG12	30:B8:46:ARG:HH11	1.64	0.62
31:BA:443:A:N7	35:BF:45:ARG:HG2	2.14	0.62
31:BA:864:G:C6	31:BA:865:C:N4	2.68	0.62
31:BA:2494:G:H2'	31:BA:2495:G:O5'	1.98	0.62
32:BB:7:G:C3'	32:BB:8:U:H5"	2.28	0.62
33:BD:255:LYS:H	33:BD:255:LYS:HZ1	1.45	0.62
36:BG:16:ARG:HH11	36:BG:31:VAL:HG11	1.64	0.62
37:BH:43:VAL:O	37:BH:43:VAL:CG2	2.44	0.62
39:BN:40:PRO:O	46:BU:64:ARG:NH2	2.31	0.62
42:BQ:7:MET:O	42:BQ:10:ARG:NH2	2.32	0.62
47:BV:52:VAL:O	47:BV:53:GLU:CB	2.46	0.62
51:BZ:108:PRO:HA	51:BZ:142:SER:HA	1.81	0.62
5:CE:98:THR:HG22	5:CE:99:GLY:N	2.14	0.62
7:CG:75:VAL:HG21	7:CG:144:MET:HB3	1.82	0.62
23:D1:89:GLU:OE2	23:D1:90:ILE:N	2.29	0.62
28:D6:13:CYS:HB3	28:D6:49:HIS:HB3	1.80	0.62
31:DA:1515:G:H2'	31:DA:1516:C:C6	2.34	0.62
31:DA:2405:G:HO2'	31:DA:2406:U:P	2.21	0.62
31:DA:2894:G:H2'	31:DA:2894:G:N3	2.14	0.62
33:DD:71:ASP:HB3	33:DD:103:ARG:HH22	1.63	0.62
33:DD:158:ALA:O	33:DD:159:ALA:CB	2.47	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DP:62:LEU:N	41:DP:62:LEU:HD13	2.11	0.62
45:DT:29:ARG:HE	45:DT:84:GLN:CD	2.07	0.62
49:DX:33:LYS:C	49:DX:35:THR:HG22	2.24	0.62
51:DZ:104:PHE:HB3	51:DZ:141:VAL:HG11	1.81	0.62
51:DZ:108:PRO:HA	51:DZ:142:SER:HA	1.81	0.62
1:AA:193:C:O2'	1:AA:194:C:H5'	1.98	0.62
1:AA:1442(A):G:N2	45:BT:119:LYS:HA	2.14	0.62
4:AD:141:ARG:HB3	4:AD:142:PRO:CD	2.30	0.62
9:AI:114:TYR:N	9:AI:114:TYR:HD2	1.98	0.62
31:BA:1485:G:H5'	31:BA:1486:A:OP2	1.99	0.62
31:BA:1820:U:C2	33:BD:202:LYS:HB3	2.35	0.62
32:BB:21:G:O2'	32:BB:22:U:O5'	2.18	0.62
39:BN:128:HIS:HE1	39:BN:134:ARG:HD2	1.64	0.62
41:BP:50:ARG:HG2	41:BP:50:ARG:NH2	2.08	0.62
43:BR:97:VAL:HG22	43:BR:114:VAL:HG22	1.81	0.62
44:BS:89:ARG:HE	44:BS:90:GLY:H	1.46	0.62
46:BU:92:ARG:O	46:BU:93:LYS:C	2.42	0.62
50:BY:17:SER:CA	50:BY:71:LYS:HD2	2.24	0.62
9:CI:114:TYR:N	9:CI:114:TYR:HD2	1.97	0.62
11:CK:85:ARG:HA	11:CK:112:THR:OG1	1.98	0.62
12:CL:31:PRO:HB2	12:CL:32:PHE:CD2	2.34	0.62
13:CM:68:GLY:CA	13:CM:71:ARG:HB3	2.28	0.62
17:CQ:59:ILE:CG2	17:CQ:71:PHE:HB3	2.28	0.62
23:D1:92:LYS:C	23:D1:94:LEU:H	2.07	0.62
24:D2:45:SER:HB3	24:D2:48:HIS:HB3	1.81	0.62
29:D7:5:TRP:NE1	29:D7:7:PRO:HG3	2.14	0.62
30:D8:39:LYS:HE2	30:D8:42:ARG:NH1	2.14	0.62
30:D8:54:GLU:O	30:D8:58:ILE:HG12	2.00	0.62
31:DA:49:A:H4'	31:DA:50:U:H5'	1.82	0.62
31:DA:693:C:O2'	31:DA:694:U:H5'	1.99	0.62
31:DA:2281:C:O2'	31:DA:2282:G:H5'	1.99	0.62
31:DA:2888:C:H2'	31:DA:2889:C:H5"	1.81	0.62
33:DD:58:HIS:CD2	33:DD:59:LYS:O	2.52	0.62
41:DP:90:ARG:HB3	41:DP:91:PHE:CD1	2.35	0.62
45:DT:30:VAL:O	45:DT:30:VAL:HG23	1.98	0.62
49:DX:56:THR:C	49:DX:57:LEU:HD12	2.24	0.62
1:AA:67:C:H2'	1:AA:68:G:H8	1.62	0.62
1:AA:80:G:H1	1:AA:89:C:N4	1.97	0.62
1:AA:745:C:H2'	1:AA:746:A:C8	2.35	0.62
4:AD:138:TYR:C	4:AD:138:TYR:HD2	2.06	0.62
16:AP:43:LYS:C	16:AP:45:THR:H	2.07	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:B2:16:LEU:N	24:B2:18:PRO:HD2	2.14	0.62
27:B5:56:LYS:O	27:B5:57:VAL:C	2.42	0.62
30:B8:34:TRP:HD1	31:BA:2391:G:OP1	1.82	0.62
31:BA:195:A:C8	31:BA:197:A:OP1	2.53	0.62
31:BA:548:A:O2'	31:BA:549:G:OP1	2.16	0.62
31:BA:1652:A:H8	31:BA:1652:A:C5'	2.13	0.62
31:BA:1721:G:C2	31:BA:1739:U:OP2	2.52	0.62
34:BE:10:GLY:C	45:BT:8:LYS:HE3	2.24	0.62
36:BG:47:LYS:HD3	36:BG:81:LYS:CD	2.29	0.62
38:BI:37:VAL:HG12	38:BI:38:LEU:N	2.13	0.62
39:BN:56:ASN:H	39:BN:125:GLY:H	1.45	0.62
40:BO:18:LYS:HB2	40:BO:45:GLU:HG2	1.81	0.62
1:CA:447:G:H2'	1:CA:485:G:N2	2.15	0.62
1:CA:450:G:H5"	16:CP:41:PRO:O	2.00	0.62
6:CF:91:VAL:HG11	18:CR:72:ARG:HH12	1.64	0.62
18:CR:66:LEU:HD11	18:CR:70:ILE:HD11	1.80	0.62
23:D1:9:GLY:O	23:D1:10:LYS:HB3	1.99	0.62
23:D1:26:ARG:CG	23:D1:34:THR:HB	2.30	0.62
31:DA:637:A:H4'	31:DA:638:G:O5'	1.99	0.62
31:DA:912:C:C2	31:DA:913:U:C5	2.88	0.62
31:DA:1190:G:H5'	41:DP:35:HIS:HA	1.80	0.62
31:DA:1372:U:H2'	31:DA:1373:A:O4'	1.99	0.62
31:DA:2873:A:C2	43:DR:6:SER:HB2	2.35	0.62
33:DD:20:ASP:OD2	33:DD:22:SER:HB3	1.99	0.62
49:DX:33:LYS:CA	49:DX:35:THR:HG22	2.30	0.62
1:AA:243:A:H4'	1:AA:244:U:O5'	1.99	0.62
1:AA:509:A:O2'	1:AA:510:A:O5'	2.18	0.62
7:AG:150:ALA:HB2	11:AK:50:TYR:CZ	2.35	0.62
8:AH:6:ILE:HD12	8:AH:6:ILE:N	2.14	0.62
10:AJ:63:PHE:HB3	14:AN:57:ARG:O	1.99	0.62
19:AS:12:ASP:HB2	19:AS:15:LEU:HD23	1.80	0.62
31:BA:69:C:O2'	31:BA:70:G:H5'	1.99	0.62
31:BA:71:A:H2	49:BX:31:HIS:CE1	2.17	0.62
31:BA:1478:G:C2'	31:BA:1479:G:H5'	2.29	0.62
31:BA:2092:U:H4'	31:BA:2093:G:O5'	2.00	0.62
32:BB:21:G:O2'	32:BB:22:U:H6	1.82	0.62
34:BE:7:VAL:CG2	45:BT:1:MET:HE1	2.29	0.62
37:BH:86:GLU:CB	37:BH:132:ARG:HB3	2.29	0.62
1:CA:165:C:H2'	1:CA:166:G:C8	2.35	0.62
4:CD:160:GLN:O	4:CD:163:GLU:HB3	1.99	0.62
12:CL:47:LYS:CB	12:CL:48:PRO:HD3	2.25	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:31:LEU:HD23	18:CR:31:LEU:H	1.63	0.62
20:CT:18:GLN:O	20:CT:22:ARG:HG3	2.00	0.62
31:DA:1021:A:H3'	31:DA:1021:A:C8	2.35	0.62
31:DA:2562:U:H1'	40:DO:23:ARG:NH1	2.14	0.62
31:DA:2567:G:H2'	31:DA:2568:C:C6	2.35	0.62
31:DA:2580:U:H5"	34:DE:131:ALA:H	1.64	0.62
31:DA:2801(A):A:C4'	31:DA:2802:G:H2'	2.29	0.62
38:DI:75:LEU:HD21	38:DI:105:HIS:ND1	2.15	0.62
43:DR:101:ALA:O	43:DR:102:GLU:HB2	1.99	0.62
47:DV:52:VAL:O	47:DV:53:GLU:CB	2.48	0.62
50:DY:37:VAL:HG22	50:DY:67:LEU:O	1.99	0.62
1:AA:619:U:H2'	4:AD:135:LEU:HD21	1.82	0.62
5:AE:78:HIS:CE1	5:AE:142:LEU:HD23	2.35	0.62
6:AF:69:GLU:HG2	6:AF:70:ASP:H	1.65	0.62
30:B8:56:GLU:HA	30:B8:59:LYS:NZ	2.14	0.62
31:BA:414:C:O2'	31:BA:415:A:H5'	1.99	0.62
31:BA:1464:C:O2'	31:BA:1528:A:C8	2.49	0.62
31:BA:2517:C:C6	31:BA:2542:A:N1	2.68	0.62
31:BA:2801(A):A:C4'	31:BA:2802:G:H2'	2.30	0.62
33:BD:16:MET:HA	33:BD:205:VAL:HG12	1.81	0.62
33:BD:143:HIS:CD2	33:BD:144:ALA:HB2	2.35	0.62
36:BG:60:LEU:O	36:BG:64:THR:HG22	1.99	0.62
36:BG:105:LYS:HB2	36:BG:105:LYS:NZ	2.14	0.62
38:BI:75:LEU:HD21	38:BI:105:HIS:ND1	2.15	0.62
38:BI:133:HIS:ND1	38:BI:134:PRO:HD2	2.15	0.62
39:BN:96:GLU:O	39:BN:100:GLU:HG3	2.00	0.62
45:BT:100:TYR:HD2	45:BT:103:ARG:HH21	1.48	0.62
48:BW:64:MET:O	48:BW:65:LEU:CB	2.47	0.62
1:CA:509:A:O2'	1:CA:510:A:O5'	2.17	0.62
1:CA:945:G:H2'	1:CA:945:G:N3	2.14	0.62
8:CH:6:ILE:HB	8:CH:85:ARG:NH1	2.14	0.62
23:D1:87:PRO:CD	23:D1:88:LYS:N	2.63	0.62
31:DA:588:U:OP2	31:DA:588:U:H6	1.83	0.62
31:DA:1169:G:H1	31:DA:1180:C:N4	1.98	0.62
31:DA:1963:U:H4'	31:DA:1964:G:OP1	1.99	0.62
37:DH:40:GLU:O	37:DH:41:MET:HB2	1.99	0.62
41:DP:105:LEU:HD12	41:DP:105:LEU:N	2.14	0.62
43:DR:10:LEU:HB3	43:DR:17:ARG:CZ	2.30	0.62
50:DY:45:VAL:HG21	50:DY:61:ILE:C	2.24	0.62
51:DZ:63:ASP:O	51:DZ:65:GLN:N	2.33	0.62
1:AA:389:A:H2'	1:AA:390:C:C5'	2.30	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:646:U:H2'	1:AA:647:C:C6	2.35	0.62
1:AA:829:G:O2'	1:AA:830:G:H5'	2.00	0.62
2:AB:54:THR:HG21	2:AB:201:ILE:HD11	1.82	0.62
4:AD:160:GLN:O	4:AD:163:GLU:HB3	2.00	0.62
8:AH:64:LYS:O	8:AH:79:VAL:HB	2.00	0.62
24:B2:26:ARG:HG2	49:BX:5:TYR:O	1.98	0.62
24:B2:52:ASP:O	24:B2:56:GLN:NE2	2.33	0.62
30:B8:12:LYS:O	41:BP:65:ARG:HB3	2.00	0.62
31:BA:197:A:H5'	31:BA:197:A:C8	2.33	0.62
31:BA:1430:C:H2'	31:BA:1431:U:H6	1.65	0.62
31:BA:2308:G:H2'	31:BA:2309:A:C8	2.34	0.62
33:BD:70:TRP:CH2	33:BD:150:LYS:HA	2.35	0.62
43:BR:12:ARG:HH11	43:BR:12:ARG:HG3	1.63	0.62
43:BR:116:LEU:O	43:BR:117:VAL:CB	2.48	0.62
47:BV:4:ILE:O	47:BV:39:LEU:HB3	2.00	0.62
47:BV:51:VAL:CG1	47:BV:52:VAL:H	2.12	0.62
49:BX:57:LEU:HD12	49:BX:57:LEU:N	2.15	0.62
1:CA:509:A:O2'	1:CA:510:A:P	2.57	0.62
1:CA:659:U:O2'	1:CA:660:G:H5'	1.98	0.62
2:CB:22:LYS:HA	2:CB:22:LYS:NZ	2.14	0.62
27:D5:51:TYR:CD2	27:D5:52:TYR:CZ	2.88	0.62
27:D5:52:TYR:HD2	27:D5:52:TYR:H	1.46	0.62
28:D6:34:LEU:HD22	28:D6:50:ARG:NH1	2.15	0.62
30:D8:12:LYS:O	41:DP:65:ARG:HB3	1.99	0.62
31:DA:925:C:H2'	31:DA:926:A:H5"	1.81	0.62
31:DA:1784:A:H4'	31:DA:1785:A:C5'	2.30	0.62
31:DA:1831:G:H2'	31:DA:1832:C:H6	1.63	0.62
35:DF:65:TRP:O	35:DF:67:GLN:N	2.33	0.62
36:DG:47:LYS:HD3	36:DG:81:LYS:CD	2.29	0.62
43:DR:55:ALA:HB2	43:DR:79:LEU:CD1	2.29	0.62
44:DS:15:ARG:HB3	44:DS:18:ILE:HB	1.81	0.62
44:DS:24:LEU:HB3	44:DS:85:VAL:HG13	1.80	0.62
49:DX:73:ARG:O	49:DX:74:PRO:C	2.43	0.62
1:AA:503:C:H2'	1:AA:504:C:H6	1.64	0.62
1:AA:1287:A:C2	1:AA:1353:G:H1'	2.34	0.62
7:AG:97:GLN:O	7:AG:101:LEU:HG	1.98	0.62
10:AJ:24:VAL:HG21	10:AJ:37:PRO:HG3	1.81	0.62
22:B0:68:GLU:CG	22:B0:80:HIS:HB2	2.29	0.62
24:B2:54:LYS:N	24:B2:56:GLN:NE2	2.48	0.62
29:B7:1:MET:O	29:B7:3:ARG:HG2	1.99	0.62
31:BA:301:G:C4	31:BA:302:C:C5	2.86	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1171:G:H8	31:BA:1171:G:OP2	1.83	0.62
31:BA:1265:A:OP1	31:BA:1265:A:H8	1.82	0.62
32:BB:66:A:C5	32:BB:109:C:C5	2.88	0.62
34:BE:132:HIS:CD2	34:BE:135:HIS:HE1	2.14	0.62
44:BS:35:ILE:H	44:BS:53:SER:HB2	1.65	0.62
45:BT:64:ARG:HB2	45:BT:73:GLU:HG2	1.82	0.62
47:BV:19:LYS:HG3	47:BV:20:LEU:C	2.25	0.62
49:BX:21:PHE:N	49:BX:21:PHE:HD1	1.98	0.62
1:CA:59:A:H3'	1:CA:331:G:H22	1.65	0.62
1:CA:113:G:H2'	1:CA:114:U:C6	2.35	0.62
2:CB:84:GLU:OE1	2:CB:219:VAL:HB	1.99	0.62
3:CC:34:LEU:O	3:CC:34:LEU:HD23	1.99	0.62
3:CC:113:ALA:HB3	3:CC:114:PRO:HD3	1.82	0.62
14:CN:23:ARG:NH1	14:CN:30:ALA:HB2	2.15	0.62
18:CR:52:PRO:O	18:CR:56:THR:HG23	2.00	0.62
31:DA:271(L):U:H5"	31:DA:271(M):G:C4	2.34	0.62
31:DA:2387:U:H5"	31:DA:2388:A:OP2	1.99	0.62
31:DA:2599:G:OP2	33:DD:236:GLY:N	2.33	0.62
32:DB:7:G:C3'	32:DB:8:U:H5"	2.30	0.62
33:DD:173:VAL:HG23	33:DD:174:ILE:N	2.14	0.62
34:DE:117:MET:O	34:DE:117:MET:CG	2.48	0.62
39:DN:134:ARG:O	39:DN:134:ARG:HG3	1.99	0.62
41:DP:16:ARG:CD	41:DP:18:ARG:H	1.99	0.62
44:DS:93:LYS:HE3	44:DS:94:TYR:N	2.14	0.62
45:DT:100:TYR:HD2	45:DT:103:ARG:HH21	1.45	0.62
47:DV:46:VAL:O	47:DV:47:VAL:HB	1.98	0.62
49:DX:18:TYR:O	49:DX:19:ALA:C	2.43	0.62
1:AA:750:G:N3	15:AO:23:GLY:HA3	2.15	0.62
1:AA:991:U:O2	1:AA:993:G:H8	1.82	0.62
1:AA:1237:C:H42	1:AA:1337:G:H1	1.47	0.62
3:AC:100:ALA:O	3:AC:101:LEU:HB2	1.99	0.62
4:AD:30:LYS:C	4:AD:32:ALA:H	2.08	0.62
24:B2:26:ARG:CD	24:B2:29:LYS:HE2	2.29	0.62
31:BA:92:A:H2'	31:BA:93:G:H8	1.64	0.62
31:BA:443:A:H1'	31:BA:1201:C:O4'	2.00	0.62
31:BA:536:A:H2'	31:BA:537:C:C6	2.34	0.62
31:BA:860:U:C5	31:BA:917:A:N7	2.65	0.62
31:BA:958:U:O2'	31:BA:959:A:P	2.58	0.62
31:BA:2801(A):A:C4'	31:BA:2802:G:H5'	2.29	0.62
32:BB:21:G:O2'	32:BB:22:U:P	2.58	0.62
46:BU:64:ARG:CZ	46:BU:64:ARG:CA	2.71	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BV:38:LEU:HG	47:BV:39:LEU:N	2.14	0.62
48:BW:4:LYS:CB	48:BW:106:ILE:HG22	2.29	0.62
49:BX:12:VAL:HG22	49:BX:29:TRP:CE2	2.35	0.62
1:CA:199:G:O2'	1:CA:200:G:H5'	1.99	0.62
1:CA:343:U:N3	1:CA:347:G:C6	2.68	0.62
1:CA:627:G:H2'	1:CA:628:G:H8	1.64	0.62
1:CA:1287:A:C2	1:CA:1353:G:H1'	2.34	0.62
6:CF:60:PHE:C	6:CF:61:LEU:HD12	2.24	0.62
29:D7:1:MET:O	29:D7:3:ARG:HG2	2.00	0.62
31:DA:830:G:H4'	31:DA:831:G:OP2	1.99	0.62
31:DA:1635:G:H2'	31:DA:1636:C:C6	2.34	0.62
31:DA:2756:U:H4'	31:DA:2757:A:OP1	1.99	0.62
1:AA:189(C):C:C2'	1:AA:189(D):C:H5'	2.30	0.61
11:AK:85:ARG:HA	11:AK:112:THR:OG1	1.99	0.61
15:AO:25:THR:HG21	15:AO:70:LEU:HB2	1.81	0.61
23:B1:37:ILE:HG21	31:BA:2080:G:OP1	2.00	0.61
24:B2:44:LEU:C	24:B2:46:GLN:H	2.08	0.61
28:B6:34:LEU:HA	28:B6:51:GLU:OE1	1.99	0.61
31:BA:836:G:C5	31:BA:837:C:C4	2.88	0.61
31:BA:2394:C:P	41:BP:63:PRO:HD2	2.39	0.61
31:BA:2713:A:H3'	31:BA:2714:G:H5'	1.82	0.61
31:BA:2825:C:H2'	31:BA:2826:A:H5'	1.82	0.61
33:BD:58:HIS:HD2	33:BD:59:LYS:O	1.83	0.61
39:BN:78:TYR:CD1	39:BN:79:PRO:HD3	2.34	0.61
40:BO:50:GLY:C	40:BO:52:VAL:H	2.05	0.61
40:BO:115:VAL:HG13	40:BO:121:VAL:HG21	1.82	0.61
41:BP:108:LYS:HD2	41:BP:108:LYS:N	2.15	0.61
42:BQ:22:LYS:HE2	42:BQ:22:LYS:CA	2.21	0.61
44:BS:35:ILE:O	44:BS:35:ILE:HG23	2.00	0.61
48:BW:56:ALA:O	48:BW:57:ASN:C	2.42	0.61
48:BW:86:LEU:C	48:BW:86:LEU:HD12	2.24	0.61
50:BY:17:SER:OG	50:BY:18:GLY:N	2.30	0.61
51:BZ:28:MET:CE	51:BZ:59:LEU:HD13	2.30	0.61
1:CA:194:C:C2'	1:CA:195:A:H5"	2.29	0.61
1:CA:617:G:N1	1:CA:618:C:C4	2.68	0.61
17:CQ:5:VAL:HG12	17:CQ:6:LEU:N	2.15	0.61
23:D1:37:ILE:HD11	31:DA:2079:U:H4'	1.82	0.61
31:DA:1353:A:H5"	33:DD:38:LYS:HZ1	1.64	0.61
31:DA:1625:C:H2'	31:DA:1626:G:H5'	1.80	0.61
31:DA:1654:A:OP1	43:DR:3:HIS:CB	2.47	0.61
31:DA:1771:C:H1'	31:DA:1786:A:C8	2.35	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1820:U:C2	33:DD:202:LYS:HB3	2.35	0.61
31:DA:2473:U:N3	31:DA:2474:C:C6	2.68	0.61
31:DA:2884:U:H2'	31:DA:2885:C:H5'	1.81	0.61
33:DD:24:ILE:CG2	33:DD:24:ILE:O	2.48	0.61
33:DD:253:GLN:HB3	33:DD:255:LYS:HZ3	1.63	0.61
35:DF:57:VAL:CG1	35:DF:59:TYR:HD1	2.13	0.61
35:DF:80:ALA:O	35:DF:83:PHE:HB2	1.99	0.61
35:DF:84:VAL:O	35:DF:85:GLY:C	2.43	0.61
37:DH:98:LEU:HB2	37:DH:125:VAL:HG21	1.80	0.61
39:DN:78:TYR:CD1	39:DN:79:PRO:HD3	2.35	0.61
41:DP:108:LYS:C	41:DP:110:TYR:H	2.07	0.61
42:DQ:109:VAL:HG12	42:DQ:110:THR:N	2.15	0.61
1:AA:41:G:H2'	1:AA:42:G:H8	1.63	0.61
1:AA:1355:G:H2'	1:AA:1356:G:C8	2.35	0.61
2:AB:168:THR:CG2	2:AB:192:SER:HA	2.31	0.61
3:AC:107:GLN:O	3:AC:108:ASN:HB2	1.99	0.61
7:AG:75:VAL:HG21	7:AG:144:MET:HB3	1.82	0.61
10:AJ:39:PRO:HB3	10:AJ:70:ARG:HH12	1.64	0.61
16:AP:70:ALA:O	16:AP:74:LEU:HD12	2.00	0.61
20:AT:38:LYS:HA	20:AT:41:ILE:HD12	1.81	0.61
24:B2:15:LYS:HA	24:B2:18:PRO:HD2	1.82	0.61
31:BA:107:C:C2	31:BA:108:U:C5	2.88	0.61
31:BA:271(F):C:H2'	31:BA:271(G):C:H6	1.65	0.61
31:BA:693:C:O2'	31:BA:694:U:H5'	2.00	0.61
31:BA:1418:G:OP1	31:BA:1588:C:O2'	2.18	0.61
31:BA:1528:A:O2'	31:BA:1528(A):A:O5'	2.18	0.61
31:BA:1833:U:H2'	31:BA:1834:U:C6	2.32	0.61
31:BA:1970:A:H5'	31:BA:1972:A:H1'	1.80	0.61
31:BA:2287:A:C2	31:BA:2346:A:N1	2.65	0.61
33:BD:35:LYS:NZ	33:BD:104:TYR:CB	2.56	0.61
35:BF:83:PHE:O	35:BF:84:VAL:CB	2.47	0.61
40:BO:61:VAL:O	40:BO:61:VAL:HG13	1.99	0.61
42:BQ:20:ALA:HB2	42:BQ:99:PRO:HD2	1.81	0.61
43:BR:10:LEU:HD22	43:BR:17:ARG:HD2	1.81	0.61
47:BV:25:LEU:HG	47:BV:94:LEU:HD13	1.81	0.61
50:BY:68:HIS:HB3	50:BY:71:LYS:NZ	2.13	0.61
1:CA:719:C:H5	1:CA:720:C:C4	2.18	0.61
1:CA:826:C:H2'	1:CA:827:U:H6	1.65	0.61
2:CB:101:MET:HA	2:CB:108:ILE:HG13	1.83	0.61
8:CH:6:ILE:HD12	8:CH:6:ILE:N	2.14	0.61
10:CJ:24:VAL:HG21	10:CJ:37:PRO:HG3	1.82	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:323:G:HO2'	31:DA:1205:U:H3	1.48	0.61
31:DA:548:A:O2'	31:DA:549:G:OP1	2.19	0.61
31:DA:1688:U:O2	31:DA:1700:A:H5"	1.99	0.61
35:DF:62:ARG:HH21	35:DF:64:ILE:HA	1.64	0.61
40:DO:4:PRO:O	40:DO:5:GLN:HB2	1.99	0.61
50:DY:96:ILE:CG2	50:DY:99:CYS:HB3	2.30	0.61
1:AA:709:G:H2'	1:AA:710:G:H8	1.66	0.61
1:AA:948:C:OP1	13:AM:107:ALA:HA	2.00	0.61
1:AA:1172:C:H2'	1:AA:1173:G:C8	2.34	0.61
12:AL:62:SER:C	12:AL:64:TYR:H	2.07	0.61
23:B1:76:ARG:HB3	23:B1:78:LYS:HE3	1.82	0.61
30:B8:25:MET:HB2	41:BP:62:LEU:HD21	1.80	0.61
30:B8:39:LYS:HE2	30:B8:42:ARG:NH1	2.14	0.61
30:B8:39:LYS:HD3	30:B8:39:LYS:C	2.25	0.61
31:BA:49:A:H4'	31:BA:50:U:H5'	1.82	0.61
31:BA:247:G:H4'	31:BA:386:G:C5	2.34	0.61
31:BA:543:C:C5	31:BA:547:A:N7	2.68	0.61
31:BA:1448:G:H1'	31:BA:1528:A:N6	2.14	0.61
31:BA:1694:C:O2'	31:BA:1695:G:C4	2.53	0.61
31:BA:2291:U:H2'	31:BA:2292:C:C6	2.36	0.61
31:BA:2807:G:C2	31:BA:2808:U:H1'	2.34	0.61
32:BB:20:C:C3'	32:BB:21:G:H5"	2.29	0.61
36:BG:7:LEU:CD2	36:BG:176:LEU:HD22	2.30	0.61
37:BH:44:VAL:O	37:BH:46:GLU:OE2	2.18	0.61
38:BI:61:ARG:O	38:BI:133:HIS:CE1	2.52	0.61
40:BO:4:PRO:O	40:BO:5:GLN:HB2	2.00	0.61
49:BX:21:PHE:N	49:BX:21:PHE:CD1	2.68	0.61
50:BY:100:ALA:O	50:BY:101:LYS:CB	2.47	0.61
1:CA:808:C:P	15:CO:48:LYS:HE3	2.40	0.61
1:CA:829:G:O2'	1:CA:830:G:H5'	1.99	0.61
1:CA:1003:G:C2'	1:CA:1004:A:H4'	2.30	0.61
1:CA:1150:U:O4	1:CA:1151:A:N6	2.34	0.61
1:CA:1238:A:N6	1:CA:1299:A:N6	2.48	0.61
4:CD:108:LEU:HD11	4:CD:174:LEU:HD22	1.82	0.61
29:D7:48:LYS:HD3	29:D7:48:LYS:N	2.15	0.61
31:DA:2660:A:C5'	31:DA:2661:G:H21	2.13	0.61
31:DA:2801(A):A:C4'	31:DA:2802:G:H5'	2.29	0.61
32:DB:21:G:O2'	32:DB:22:U:O5'	2.17	0.61
32:DB:66:A:N6	32:DB:108:U:H2'	2.12	0.61
34:DE:176:ILE:HG22	34:DE:179:GLU:H	1.65	0.61
35:DF:2:LYS:O	35:DF:25:PRO:HG2	1.99	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DG:111:LEU:HB2	36:DG:112:PRO:HD3	1.82	0.61
39:DN:27:ALA:HB3	39:DN:106:MET:CE	2.30	0.61
47:DV:25:LEU:HG	47:DV:94:LEU:HD13	1.81	0.61
47:DV:43:GLU:N	47:DV:48:GLY:HA2	2.15	0.61
47:DV:51:VAL:HG12	47:DV:52:VAL:N	2.15	0.61
49:DX:63:LYS:O	49:DX:68:ARG:HA	1.99	0.61
49:DX:76:ARG:HD2	49:DX:77:LYS:HB2	1.81	0.61
51:DZ:28:MET:HE2	51:DZ:59:LEU:HD13	1.82	0.61
1:AA:594:G:H1	1:AA:645:C:H42	1.49	0.61
1:AA:1442(A):G:C8	45:BT:118:ARG:NH1	2.66	0.61
2:AB:213:LEU:O	2:AB:213:LEU:HD23	2.01	0.61
7:AG:26:PHE:CE2	7:AG:30:ILE:HD11	2.34	0.61
12:AL:91:LYS:O	12:AL:91:LYS:HG3	1.99	0.61
24:B2:53:LEU:CA	24:B2:56:GLN:HE22	2.14	0.61
31:BA:271(L):U:H5"	31:BA:271(M):G:C4	2.36	0.61
31:BA:1354:A:H2'	31:BA:1355:G:O4'	2.00	0.61
31:BA:2317:C:O2	31:BA:2318:G:O4'	2.19	0.61
31:BA:2660:A:C5'	31:BA:2661:G:H21	2.14	0.61
33:BD:72:LYS:NZ	33:BD:75:ILE:HD12	2.16	0.61
36:BG:111:LEU:HB2	36:BG:112:PRO:HD3	1.82	0.61
39:BN:17:ASP:OD2	39:BN:19:GLU:HB3	2.01	0.61
41:BP:35:HIS:O	41:BP:36:LYS:HG3	2.00	0.61
41:BP:96:THR:HG22	41:BP:126:VAL:CG2	2.31	0.61
44:BS:15:ARG:HB3	44:BS:18:ILE:HB	1.82	0.61
47:BV:62:LEU:HB3	47:BV:98:GLU:HA	1.81	0.61
1:CA:59:A:H2'	1:CA:59:A:N3	2.15	0.61
2:CB:61:LEU:CD2	2:CB:68:ILE:HD11	2.30	0.61
10:CJ:3:LYS:HD2	10:CJ:77:PRO:HD3	1.81	0.61
16:CP:20:VAL:HG22	16:CP:21:VAL:N	2.16	0.61
24:D2:44:LEU:HD12	24:D2:44:LEU:O	2.01	0.61
27:D5:57:VAL:C	27:D5:58:LEU:HG	2.25	0.61
31:DA:2342:C:H6	31:DA:2342:C:OP2	1.84	0.61
31:DA:2759:G:O2'	31:DA:2760:C:H5'	2.00	0.61
33:DD:71:ASP:CB	33:DD:103:ARG:NH2	2.63	0.61
39:DN:51:PHE:CZ	39:DN:119:ARG:HD2	2.35	0.61
41:DP:112:LEU:H	41:DP:128:HIS:HD2	1.46	0.61
42:DQ:17:LEU:N	42:DQ:17:LEU:HD23	2.15	0.61
44:DS:42:ASP:C	44:DS:44:LYS:N	2.58	0.61
45:DT:100:TYR:HB3	45:DT:103:ARG:HE	1.66	0.61
51:DZ:28:MET:CE	51:DZ:59:LEU:HD13	2.30	0.61
1:AA:189(D):C:H1'	1:AA:189(H):G:C2	2.36	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:360:A:O2'	1:AA:361:G:H5'	2.00	0.61
1:AA:450:G:H5"	16:AP:41:PRO:O	2.00	0.61
1:AA:650:G:O2'	1:AA:651:C:H5'	2.01	0.61
1:AA:817:C:H4'	1:AA:818:G:OP1	2.00	0.61
1:AA:1205:U:H5"	3:AC:190:ARG:NH2	2.15	0.61
1:AA:1264:C:H2'	1:AA:1265:G:H8	1.64	0.61
3:AC:58:GLU:H	3:AC:65:ALA:HB3	1.64	0.61
4:AD:17:VAL:HG11	4:AD:197:PRO:CB	2.31	0.61
6:AF:100:ASN:O	18:AR:28:GLU:HG2	2.01	0.61
31:BA:1578:U:H6	31:BA:1578:U:OP2	1.84	0.61
31:BA:2655:G:N3	31:BA:2664:G:O6	2.34	0.61
31:BA:2801(A):A:H4'	31:BA:2802:G:H2'	1.81	0.61
34:BE:16:ARG:O	34:BE:18:ASP:N	2.33	0.61
34:BE:59:VAL:HG22	34:BE:63:LEU:HA	1.82	0.61
38:BI:10:GLU:O	38:BI:12:LEU:HD23	2.01	0.61
39:BN:28:THR:HG22	39:BN:29:LYS:N	2.15	0.61
47:BV:70:ILE:HB	47:BV:90:PRO:HB2	1.83	0.61
49:BX:83:VAL:O	49:BX:84:ALA:HB3	2.00	0.61
1:CA:671:G:H2'	1:CA:672:U:C6	2.32	0.61
2:CB:168:THR:CG2	2:CB:192:SER:HA	2.30	0.61
11:CK:48:ILE:HG22	11:CK:49:GLY:H	1.66	0.61
12:CL:86:ARG:HB2	12:CL:101:VAL:HG22	1.83	0.61
28:D6:20:ASN:O	28:D6:21:TYR:CG	2.53	0.61
28:D6:34:LEU:HA	28:D6:51:GLU:OE1	2.01	0.61
30:D8:39:LYS:HD3	30:D8:39:LYS:C	2.26	0.61
31:DA:197:A:H5'	31:DA:197:A:C8	2.30	0.61
31:DA:271(M):G:N7	31:DA:271(O):C:N4	2.49	0.61
31:DA:719:C:H2'	31:DA:720:C:C6	2.35	0.61
31:DA:1405:U:H2'	31:DA:1406:U:H6	1.63	0.61
31:DA:1505:C:C2'	31:DA:1506:C:O5'	2.48	0.61
31:DA:1865:G:N2	31:DA:1877:A:C8	2.68	0.61
31:DA:2308:G:H2'	31:DA:2309:A:C8	2.35	0.61
31:DA:2655:G:N3	31:DA:2664:G:O6	2.33	0.61
31:DA:2801:A:O2'	31:DA:2895:U:H4'	2.00	0.61
35:DF:3:GLU:HA	35:DF:24:LEU:HB3	1.83	0.61
35:DF:8:GLN:HB3	35:DF:126:VAL:HA	1.81	0.61
37:DH:70:THR:O	37:DH:73:ALA:N	2.34	0.61
41:DP:47:ASP:OD1	41:DP:49:ARG:HB2	2.01	0.61
44:DS:28:VAL:C	44:DS:89:ARG:HD2	2.24	0.61
45:DT:61:PHE:CE2	45:DT:76:PHE:HB2	2.36	0.61
49:DX:60:ARG:HE	49:DX:74:PRO:CG	2.13	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:186:C:H2'	1:AA:187:C:C6	2.36	0.61
1:AA:833:U:H2'	1:AA:834:C:C6	2.36	0.61
1:AA:1199:U:H4'	10:AJ:54:PHE:CZ	2.35	0.61
1:AA:1228:C:P	13:AM:108:ARG:HH22	2.23	0.61
20:AT:71:THR:HG22	20:AT:72:LEU:HG	1.81	0.61
23:B1:13:ILE:O	23:B1:14:VAL:HB	1.99	0.61
31:BA:71:A:H3'	31:BA:71:A:OP2	2.00	0.61
31:BA:102:G:H8	31:BA:102:G:C5'	2.00	0.61
31:BA:322:A:C5	31:BA:340:A:C2	2.89	0.61
31:BA:587:C:C4	41:BP:33:ARG:HG2	2.34	0.61
31:BA:1169:G:H1	31:BA:1180:C:N4	1.98	0.61
31:BA:1353:A:H5"	33:BD:38:LYS:HZ1	1.65	0.61
31:BA:1505:C:C2'	31:BA:1506:C:O5'	2.48	0.61
31:BA:1614:A:N1	48:BW:91:GLY:HA2	2.16	0.61
31:BA:1797:C:H2'	31:BA:1798:U:H5'	1.83	0.61
31:BA:2020:A:O2'	31:BA:2021:C:H5'	2.01	0.61
31:BA:2243:U:H2'	31:BA:2244:U:C6	2.35	0.61
34:BE:170:LEU:HD12	34:BE:170:LEU:N	2.16	0.61
37:BH:126:PRO:HB2	37:BH:130:ARG:NH1	2.16	0.61
39:BN:128:HIS:CE1	39:BN:134:ARG:HD2	2.35	0.61
45:BT:87:ASP:OD1	45:BT:87:ASP:C	2.42	0.61
46:BU:68:ALA:O	46:BU:71:GLN:HB3	2.00	0.61
49:BX:39:ILE:O	49:BX:42:ALA:HB3	2.00	0.61
49:BX:70:LEU:O	49:BX:71:GLY:C	2.43	0.61
1:CA:646:U:H2'	1:CA:647:C:C6	2.35	0.61
1:CA:1070:U:H2'	1:CA:1071:C:C6	2.29	0.61
1:CA:1118:C:H1'	1:CA:1179:A:C5	2.36	0.61
1:CA:1264:C:H2'	1:CA:1265:G:H8	1.65	0.61
7:CG:153:HIS:HE1	11:CK:57:THR:HG23	1.65	0.61
24:D2:44:LEU:C	24:D2:46:GLN:H	2.09	0.61
30:D8:35:GLN:HB3	30:D8:36:LYS:HG3	1.83	0.61
31:DA:1268:A:C2	31:DA:2013:A:C4	2.89	0.61
31:DA:1341:U:OP2	31:DA:1394:U:O2'	2.14	0.61
31:DA:2313:C:O2'	31:DA:2314:C:H5'	2.00	0.61
34:DE:7:VAL:CG2	45:DT:1:MET:HE1	2.29	0.61
40:DO:50:GLY:C	40:DO:52:VAL:H	2.08	0.61
41:DP:27:HIS:CD2	41:DP:27:HIS:C	2.78	0.61
41:DP:64:LYS:C	41:DP:66:GLY:N	2.59	0.61
43:DR:59:ASP:OD1	43:DR:61:HIS:HB3	1.99	0.61
44:DS:35:ILE:O	44:DS:35:ILE:HG23	2.00	0.61
1:AA:605:U:H2'	1:AA:606:G:C8	2.35	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:613:C:H42	1:AA:627:G:H1	1.48	0.61
1:AA:1173:G:H2'	1:AA:1174:G:H8	1.65	0.61
17:AQ:13:ASP:H	17:AQ:14:LYS:NZ	1.99	0.61
19:AS:10:PHE:HZ	19:AS:70:LYS:HZ3	1.47	0.61
23:B1:11:ARG:HB3	23:B1:12:PRO:CD	2.30	0.61
24:B2:34:GLU:O	24:B2:36:ARG:N	2.34	0.61
30:B8:59:LYS:HB2	30:B8:59:LYS:HZ3	1.60	0.61
31:BA:737:C:H2'	31:BA:738:G:O5'	2.01	0.61
31:BA:1486:A:N6	31:BA:1504:C:H42	1.99	0.61
36:BG:133:LEU:HD12	36:BG:133:LEU:C	2.25	0.61
45:BT:55:ASN:H	45:BT:59:THR:HG22	1.64	0.61
1:CA:109:A:C6	1:CA:326:G:C6	2.88	0.61
1:CA:613:C:H42	1:CA:627:G:H1	1.47	0.61
3:CC:107:GLN:O	3:CC:108:ASN:HB2	1.99	0.61
4:CD:3:ARG:O	4:CD:5:ILE:HG13	2.00	0.61
6:CF:18:GLN:HA	6:CF:21:LEU:CD2	2.28	0.61
12:CL:74:GLY:O	12:CL:102:ARG:NH2	2.34	0.61
23:D1:76:ARG:HB3	23:D1:78:LYS:HE3	1.83	0.61
24:D2:12:GLU:C	24:D2:14:ARG:H	2.09	0.61
28:D6:39:TYR:HB3	28:D6:49:HIS:ND1	2.16	0.61
30:D8:35:GLN:HA	31:DA:2420:C:P	2.41	0.61
31:DA:909:A:H2'	31:DA:912:C:H5	1.66	0.61
31:DA:1190:G:H5'	41:DP:35:HIS:CB	2.30	0.61
31:DA:1528(A):A:C5	31:DA:1529:G:H8	2.18	0.61
31:DA:1625:C:C2'	31:DA:1626:G:H5'	2.30	0.61
31:DA:1742:G:H5'	31:DA:1743:C:OP2	2.01	0.61
31:DA:2392:A:H2	31:DA:2424:C:H42	1.48	0.61
33:DD:161:THR:HG23	33:DD:196:VAL:HG21	1.82	0.61
39:DN:38:HIS:O	46:DU:67:ALA:HB1	2.01	0.61
43:DR:18:LEU:O	43:DR:19:ALA:C	2.44	0.61
46:DU:8:VAL:HG12	46:DU:9:VAL:N	2.14	0.61
50:DY:99:CYS:SG	50:DY:99:CYS:O	2.58	0.61
1:AA:189(D):C:H1'	1:AA:189(H):G:N2	2.16	0.61
1:AA:1064:G:N2	1:AA:1190:G:H2'	2.16	0.61
4:AD:5:ILE:HG22	4:AD:5:ILE:O	2.00	0.61
8:AH:13:ILE:O	8:AH:17:THR:HG23	2.01	0.61
10:AJ:29:ARG:HH22	10:AJ:84:GLN:HG2	1.65	0.61
16:AP:6:LEU:HG	16:AP:17:TYR:CB	2.30	0.61
31:BA:376:C:H42	31:BA:398:G:H1	1.48	0.61
31:BA:1185:C:H5"	31:BA:1186:G:OP1	2.01	0.61
31:BA:1204:A:H2	31:BA:1241:A:N1	1.98	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1341:U:C2	49:BX:77:LYS:HE2	2.35	0.61
31:BA:1902:C:H1'	33:BD:244:ARG:HD3	1.80	0.61
32:BB:52:A:O2'	32:BB:53:A:C8	2.53	0.61
34:BE:95:ILE:HD12	34:BE:95:ILE:N	2.16	0.61
39:BN:13:TRP:HZ3	39:BN:130:HIS:CE1	2.18	0.61
47:BV:2:PHE:CB	47:BV:42:GLY:HA2	2.31	0.61
1:CA:1128:C:H5'	9:CI:16:ARG:NH1	2.16	0.61
1:CA:1199:U:H4'	10:CJ:54:PHE:CZ	2.34	0.61
7:CG:115:ARG:HB2	7:CG:118:VAL:HG22	1.83	0.61
15:CO:87:ILE:CG2	15:CO:88:ARG:H	2.09	0.61
28:D6:28:ARG:HA	28:D6:32:ASN:HD22	1.63	0.61
31:DA:287:C:C2	31:DA:288:C:C6	2.89	0.61
31:DA:443:A:H1'	31:DA:1201:C:O4'	1.99	0.61
31:DA:669:G:O2'	31:DA:669:G:C8	2.52	0.61
31:DA:768:G:O2'	31:DA:1379:A:N6	2.34	0.61
31:DA:1179:C:H2'	31:DA:1180:C:H5"	1.82	0.61
31:DA:1298:C:H5"	31:DA:1299:G:OP2	2.01	0.61
31:DA:1354:A:H2'	31:DA:1355:G:O4'	2.01	0.61
31:DA:1899:G:N2	31:DA:1902:C:N4	2.23	0.61
31:DA:2291:U:H2'	31:DA:2292:C:C6	2.35	0.61
31:DA:2338:G:O2'	31:DA:2339:G:H5'	2.01	0.61
31:DA:2402:C:H5'	31:DA:2403:C:OP2	1.99	0.61
31:DA:2713:A:H3'	31:DA:2714:G:C5'	2.31	0.61
37:DH:43:VAL:CG1	37:DH:53:GLU:H	2.13	0.61
37:DH:148:ILE:O	37:DH:151:ILE:HG12	2.00	0.61
43:DR:10:LEU:HD22	43:DR:17:ARG:HD2	1.82	0.61
43:DR:33:ARG:HG2	43:DR:115:GLU:HG2	1.83	0.61
46:DU:27:LEU:HA	46:DU:30:LYS:HB2	1.82	0.61
49:DX:32:PRO:HG3	49:DX:72:LYS:HD2	1.83	0.61
51:DZ:7:ALA:O	51:DZ:61:LEU:HD23	2.00	0.61
51:DZ:108:PRO:CA	51:DZ:142:SER:HA	2.30	0.61
1:AA:1418:A:H2	31:BA:1948:G:N3	1.99	0.61
2:AB:187:LEU:HA	2:AB:201:ILE:HB	1.82	0.61
4:AD:12:CYS:HA	4:AD:19:LEU:HD11	1.82	0.61
4:AD:162:LEU:O	4:AD:165:MET:HB2	2.01	0.61
13:AM:61:GLU:HA	13:AM:66:LEU:HD11	1.83	0.61
17:AQ:5:VAL:CG1	17:AQ:6:LEU:H	2.14	0.61
31:BA:631:A:O2'	41:BP:67:MET:HB3	2.00	0.61
31:BA:1786:A:C2	31:BA:2606:C:H1'	2.34	0.61
31:BA:2102:U:C4	31:BA:2103:C:N4	2.69	0.61
31:BA:2580:U:C5'	34:BE:131:ALA:HB3	2.31	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BU:64:ARG:NH2	46:BU:64:ARG:CA	2.53	0.61
1:CA:707:C:O2'	1:CA:708:C:H5'	2.01	0.61
1:CA:1342:C:H1'	9:CI:124:GLN:HE22	1.65	0.61
1:CA:1442(A):G:C3'	1:CA:1442(B):A:H5"	2.27	0.61
2:CB:185:ILE:HG22	2:CB:199:TYR:CB	2.18	0.61
4:CD:58:LEU:CD2	4:CD:62:GLN:HG2	2.30	0.61
5:CE:101:ILE:CD1	5:CE:119:LEU:HD23	2.31	0.61
24:D2:14:ARG:CZ	24:D2:57:ILE:CG2	2.78	0.61
31:DA:1042:G:H2'	31:DA:1042:G:N3	2.16	0.61
31:DA:1488:G:C6	31:DA:1489:U:N3	2.69	0.61
31:DA:2658:C:H3'	31:DA:2659:G:H5"	1.83	0.61
34:DE:1:MET:O	34:DE:2:LYS:C	2.41	0.61
36:DG:38:VAL:HG22	36:DG:93:THR:HG23	1.82	0.61
37:DH:141:VAL:HG12	37:DH:142:GLY:N	2.16	0.61
49:DX:37:THR:C	49:DX:38:GLU:OE1	2.44	0.61
1:AA:22:G:H2'	1:AA:23:C:H6	1.63	0.61
1:AA:748:C:H4'	1:AA:749:C:O5'	2.01	0.61
1:AA:945:G:H2'	1:AA:945:G:N3	2.14	0.61
27:B5:7:PRO:HA	31:BA:2615:U:C2	2.35	0.61
27:B5:57:VAL:CB	27:B5:58:LEU:HD12	2.26	0.61
30:B8:4:MET:HE1	31:BA:593:G:O4'	2.01	0.61
31:BA:675:A:C8	31:BA:804:A:C6	2.87	0.61
31:BA:1378:A:H4'	31:BA:1379:A:OP1	2.00	0.61
31:BA:1378:A:O2'	31:BA:1379:A:H5"	2.01	0.61
31:BA:1766:U:H2'	31:BA:1767:C:C6	2.35	0.61
33:BD:71:ASP:CB	33:BD:103:ARG:NH2	2.64	0.61
33:BD:222:ARG:O	33:BD:225:ALA:HB3	2.01	0.61
37:BH:44:VAL:HG12	37:BH:45:VAL:N	2.11	0.61
39:BN:45:ASN:H	39:BN:45:ASN:ND2	1.93	0.61
42:BQ:141:GLN:HE21	51:BZ:71:VAL:C	2.09	0.61
45:BT:36:GLU:HB3	45:BT:38:ASN:OD1	2.01	0.61
1:CA:186:C:C2	1:CA:187:C:C5	2.89	0.61
1:CA:428:G:C4'	1:CA:429:U:O5'	2.48	0.61
1:CA:687:A:N3	1:CA:688:G:H1'	2.16	0.61
1:CA:833:U:H2'	1:CA:834:C:C6	2.36	0.61
1:CA:1096:C:H2'	1:CA:1097:C:H6	1.65	0.61
1:CA:1189:C:O3'	3:CC:5:ILE:HD12	2.00	0.61
2:CB:44:LEU:H	2:CB:44:LEU:HD12	1.66	0.61
6:CF:79:LEU:O	6:CF:85:VAL:HG11	2.01	0.61
20:CT:63:ILE:HD13	20:CT:80:ARG:HB2	1.82	0.61
24:D2:18:PRO:O	24:D2:19:VAL:C	2.43	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D5:46:CYS:SG	27:D5:47:PRO:CG	2.89	0.61
28:D6:12:GLU:CB	28:D6:23:THR:HA	2.30	0.61
31:DA:139(A):G:N2	49:DX:44:GLU:OE1	2.25	0.61
36:DG:16:ARG:HH11	36:DG:31:VAL:HG11	1.66	0.61
41:DP:62:LEU:H	41:DP:62:LEU:CD1	2.01	0.61
41:DP:71:VAL:HG13	41:DP:72:PRO:N	2.15	0.61
44:DS:24:LEU:O	44:DS:85:VAL:HG12	2.00	0.61
48:DW:95:ILE:O	48:DW:95:ILE:HG13	1.99	0.61
49:DX:59:VAL:HG23	49:DX:60:ARG:H	1.66	0.61
50:DY:96:ILE:HG22	50:DY:97:ARG:N	2.16	0.61
1:AA:105:G:H2'	1:AA:106:C:C6	2.36	0.60
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.36	0.60
4:AD:3:ARG:O	4:AD:5:ILE:HG13	2.01	0.60
15:AO:71:GLN:HG3	15:AO:78:TYR:CD2	2.35	0.60
31:BA:1268:A:C2	31:BA:2013:A:C4	2.89	0.60
31:BA:2287:A:N6	31:BA:2344:U:N3	2.47	0.60
31:BA:2723:C:H5"	43:BR:2:ARG:HD2	1.82	0.60
33:BD:35:LYS:NZ	33:BD:64:ILE:O	2.27	0.60
35:BF:119:ARG:HH11	35:BF:119:ARG:HG2	1.65	0.60
42:BQ:109:VAL:HG12	42:BQ:110:THR:N	2.15	0.60
43:BR:8:ARG:CZ	43:BR:8:ARG:HA	2.30	0.60
44:BS:29:PHE:H	44:BS:89:ARG:HD2	1.62	0.60
1:CA:545:C:O2'	1:CA:546:G:H5'	1.99	0.60
23:D1:47:GLN:HB2	31:DA:397:G:H5"	1.82	0.60
24:D2:32:LEU:O	24:D2:34:GLU:N	2.34	0.60
24:D2:56:GLN:NE2	24:D2:56:GLN:H	1.99	0.60
28:D6:45:LYS:HE3	31:DA:2370:G:O2'	2.01	0.60
30:D8:32:LEU:O	30:D8:33:ASN:CB	2.45	0.60
31:DA:70:G:H21	31:DA:71:A:N6	1.98	0.60
31:DA:280:C:H2'	31:DA:281:G:O5'	2.01	0.60
31:DA:626:U:H3	41:DP:105:LEU:HG	1.66	0.60
31:DA:836:G:H2'	31:DA:837:C:C6	2.36	0.60
31:DA:2807:G:H22	31:DA:2892:A:N6	1.98	0.60
31:DA:2875:C:H4'	45:DT:5:ALA:HB2	1.82	0.60
33:DD:132:PRO:O	33:DD:136:ILE:HD12	2.01	0.60
36:DG:39:ILE:HB	36:DG:157:ILE:HG22	1.83	0.60
38:DI:102:SER:HA	38:DI:107:VAL:O	2.01	0.60
38:DI:133:HIS:CB	38:DI:134:PRO:CD	2.77	0.60
39:DN:67:LEU:C	39:DN:69:GLN:N	2.57	0.60
45:DT:56:GLY:C	45:DT:57:PHE:O	2.41	0.60
49:DX:63:LYS:HE3	49:DX:70:LEU:HD22	1.82	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DY:79:CYS:O	50:DY:80:GLY:C	2.42	0.60
5:AE:96:PRO:HA	5:AE:117:ASP:OD2	2.00	0.60
11:AK:58:PRO:HA	11:AK:90:GLY:HA2	1.82	0.60
23:B1:67:ILE:H	23:B1:67:ILE:HD12	1.64	0.60
27:B5:16:ARG:NH1	27:B5:17:ASP:OD1	2.34	0.60
30:B8:61:LEU:N	30:B8:63:PRO:HD2	2.17	0.60
31:BA:769:G:C2'	31:BA:770:G:H5'	2.31	0.60
31:BA:848:G:H2'	31:BA:849:A:C8	2.36	0.60
31:BA:1116:C:C2'	31:BA:1117:G:H5'	2.31	0.60
31:BA:2101:G:C6	31:BA:2102:U:C5	2.88	0.60
34:BE:37:ARG:O	34:BE:45:THR:HA	2.02	0.60
4:CD:60:GLU:HG2	4:CD:202:LEU:HB2	1.83	0.60
5:CE:33:VAL:HG11	5:CE:109:ILE:HA	1.82	0.60
16:CP:43:LYS:C	16:CP:45:THR:H	2.07	0.60
18:CR:62:GLU:HA	18:CR:65:ILE:CD1	2.31	0.60
19:CS:10:PHE:HZ	19:CS:70:LYS:HZ3	1.47	0.60
29:D7:24:THR:HG23	29:D7:27:GLY:H	1.66	0.60
30:D8:32:LEU:C	30:D8:34:TRP:N	2.42	0.60
31:DA:271(R):G:O2'	31:DA:271(S):G:H5'	2.01	0.60
31:DA:943:U:OP2	41:DP:38:GLN:CD	2.44	0.60
31:DA:1264:G:H3'	31:DA:1265:A:H5"	1.83	0.60
31:DA:1280:G:C3'	31:DA:1281:G:H5"	2.29	0.60
31:DA:1677:A:H2'	31:DA:1678:G:C8	2.37	0.60
31:DA:1796:U:H2'	31:DA:1797:C:H6	1.66	0.60
31:DA:2247:A:O2'	31:DA:2248:C:H5'	2.01	0.60
35:DF:28:ILE:O	35:DF:28:ILE:HD12	2.01	0.60
38:DI:56:LYS:HZ2	38:DI:57:ARG:N	1.98	0.60
38:DI:72:LEU:HD12	38:DI:138:ILE:CG2	2.28	0.60
38:DI:81:VAL:HG11	38:DI:88:ILE:HG23	1.83	0.60
39:DN:59:LYS:O	39:DN:60:ILE:C	2.43	0.60
42:DQ:141:GLN:HE21	51:DZ:72:ARG:N	1.98	0.60
45:DT:30:VAL:HG21	45:DT:83:ILE:CG1	2.28	0.60
47:DV:85:LYS:C	47:DV:87:HIS:H	2.05	0.60
48:DW:44:ALA:O	48:DW:45:TYR:C	2.44	0.60
50:DY:8:LYS:NZ	50:DY:74:PRO:HD3	2.13	0.60
1:AA:475:G:H2'	1:AA:476:G:C8	2.33	0.60
1:AA:662:G:H2'	1:AA:663:A:H8	1.65	0.60
1:AA:892:A:H2'	1:AA:893:C:C6	2.36	0.60
9:AI:4:TYR:HA	9:AI:88:TYR:CE1	2.35	0.60
12:AL:119:LYS:HB2	12:AL:120:TYR:HD1	1.66	0.60
15:AO:54:ARG:HG2	15:AO:58:MET:HE2	1.82	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:49:LEU:HD12	16:AP:50:LYS:H	1.65	0.60
28:B6:34:LEU:HD22	28:B6:50:ARG:NH1	2.15	0.60
28:B6:51:GLU:O	28:B6:52:VAL:CB	2.49	0.60
31:BA:348:G:H2'	31:BA:349:G:C5'	2.27	0.60
31:BA:1300:U:O2'	31:BA:1626:G:C2	2.47	0.60
31:BA:2543:G:H2'	31:BA:2544:G:C8	2.35	0.60
31:BA:2853:C:H2'	31:BA:2854:G:H8	1.65	0.60
38:BI:35:LEU:HD23	38:BI:35:LEU:N	2.17	0.60
42:BQ:52:VAL:HA	42:BQ:55:VAL:CG1	2.31	0.60
46:BU:34:LYS:HE2	46:BU:34:LYS:HA	1.83	0.60
47:BV:19:LYS:CB	47:BV:96:ILE:O	2.46	0.60
47:BV:93:GLU:HG2	47:BV:94:LEU:N	2.13	0.60
1:CA:343:U:O2'	1:CA:346:G:O6	2.18	0.60
1:CA:833:U:H2'	1:CA:834:C:H6	1.66	0.60
31:DA:207:A:H2'	31:DA:208:C:O4'	2.01	0.60
31:DA:325:G:O2'	31:DA:326:G:H5'	2.01	0.60
31:DA:543:C:H6	31:DA:547:A:N7	1.98	0.60
31:DA:740:U:H2'	31:DA:741:G:C8	2.36	0.60
31:DA:1116:C:C2'	31:DA:1117:G:H5'	2.31	0.60
31:DA:1670:C:O2	34:DE:129:HIS:CE1	2.53	0.60
31:DA:1721:G:C2	31:DA:1739:U:OP2	2.54	0.60
31:DA:2418:A:H2'	31:DA:2419:U:C6	2.36	0.60
31:DA:2565:A:C5'	31:DA:2566:A:OP2	2.48	0.60
32:DB:20:C:C3'	32:DB:21:G:H5"	2.31	0.60
38:DI:126:TYR:O	38:DI:139:GLN:HA	2.01	0.60
39:DN:40:PRO:O	46:DU:64:ARG:NH2	2.34	0.60
39:DN:67:LEU:O	39:DN:69:GLN:N	2.34	0.60
41:DP:51:PHE:HB3	41:DP:52:GLU:CG	2.29	0.60
49:DX:34:ALA:O	49:DX:36:LYS:HE3	2.02	0.60
50:DY:81:LYS:HG2	50:DY:96:ILE:CG2	2.31	0.60
50:DY:95:LYS:HD3	50:DY:100:ALA:CB	2.16	0.60
4:AD:12:CYS:CA	4:AD:19:LEU:HD11	2.31	0.60
4:AD:135:LEU:HB2	4:AD:138:TYR:HB2	1.82	0.60
5:AE:18:ARG:NH2	5:AE:25:ARG:HG2	2.16	0.60
11:AK:111:ASP:HA	18:AR:84:LYS:HE2	1.83	0.60
31:BA:542:C:O5'	31:BA:542:C:H6	1.84	0.60
31:BA:2275:C:O2'	42:BQ:83:MET:HA	2.02	0.60
31:BA:2387:U:H5"	31:BA:2388:A:OP2	2.01	0.60
31:BA:2825:C:C2'	31:BA:2826:A:H5'	2.29	0.60
34:BE:51:PHE:CD1	34:BE:52:LEU:HD13	2.36	0.60
35:BF:62:ARG:HH21	35:BF:64:ILE:HA	1.66	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:41:MET:O	37:BH:42:ARG:C	2.45	0.60
38:BI:133:HIS:CB	38:BI:134:PRO:CD	2.78	0.60
41:BP:26:GLY:HA2	41:BP:30:THR:HG23	1.84	0.60
41:BP:85:LEU:HA	41:BP:88:LEU:HB2	1.83	0.60
44:BS:16:ASN:C	44:BS:17:ARG:O	2.39	0.60
44:BS:38:GLN:CG	44:BS:47:THR:HG21	2.32	0.60
48:BW:5:ALA:C	48:BW:6:ILE:HG13	2.26	0.60
49:BX:77:LYS:CD	49:BX:78:LYS:HG3	2.30	0.60
50:BY:79:CYS:O	50:BY:80:GLY:C	2.45	0.60
50:BY:88:LYS:O	50:BY:89:PHE:HB2	2.01	0.60
51:BZ:165:VAL:HG12	51:BZ:166:SER:OG	2.01	0.60
5:CE:6:PHE:HB2	5:CE:34:VAL:HG13	1.82	0.60
11:CK:121:PRO:HD2	11:CK:126:ARG:HG3	1.82	0.60
13:CM:46:LYS:HG3	13:CM:47:ASP:N	2.16	0.60
20:CT:46:GLU:CD	20:CT:48:LYS:HE2	2.26	0.60
27:D5:56:LYS:O	27:D5:57:VAL:C	2.45	0.60
31:DA:442:G:O4’	35:DF:46:ARG:HD3	2.02	0.60
31:DA:627:A:C6	31:DA:637:A:C8	2.90	0.60
31:DA:806:C:OP2	41:DP:39:LYS:CD	2.48	0.60
31:DA:1378:A:O2’	31:DA:1379:A:H5”	2.01	0.60
31:DA:1797:C:C2’	31:DA:1798:U:H5’	2.31	0.60
31:DA:2593:U:H2’	31:DA:2594:C:C6	2.35	0.60
33:DD:35:LYS:CE	33:DD:65:ILE:HG22	2.31	0.60
35:DF:24:LEU:HB3	35:DF:25:PRO:CD	2.30	0.60
46:DU:91:ASP:O	46:DU:92:ARG:HB3	2.01	0.60
47:DV:72:VAL:HA	47:DV:88:ARG:NH1	2.17	0.60
50:DY:68:HIS:HB3	50:DY:71:LYS:NZ	2.16	0.60
1:AA:328:C:O2	1:AA:328:C:C2’	2.50	0.60
23:B1:10:LYS:CG	23:B1:11:ARG:H	2.14	0.60
27:B5:57:VAL:C	27:B5:58:LEU:HG	2.26	0.60
32:BB:15:A:H1’	32:BB:110:G:C8	2.36	0.60
46:BU:50:ARG:CZ	47:BV:75:PHE:CE2	2.85	0.60
47:BV:25:LEU:H	47:BV:94:LEU:HD12	1.65	0.60
47:BV:36:PRO:CD	47:BV:60:GLU:O	2.49	0.60
49:BX:40:LYS:CG	49:BX:41:ASN:N	2.64	0.60
49:BX:74:PRO:C	49:BX:75:ASP:O	2.42	0.60
50:BY:39:VAL:HG12	50:BY:40:GLU:H	1.67	0.60
1:CA:590:C:H2’	1:CA:591:U:H6	1.65	0.60
1:CA:948:C:OP1	13:CM:107:ALA:HA	2.02	0.60
1:CA:1064:G:N2	1:CA:1190:G:H2’	2.16	0.60
1:CA:1205:U:H5”	3:CC:190:ARG:NH2	2.16	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1228:C:P	13:CM:108:ARG:HH22	2.24	0.60
3:CC:125:GLU:HA	3:CC:191:THR:HG22	1.84	0.60
16:CP:28:ARG:NH1	16:CP:29:ASP:OD2	2.34	0.60
24:D2:32:LEU:CD2	31:DA:61:G:O2'	2.50	0.60
31:DA:543:C:C5	31:DA:547:A:N7	2.69	0.60
31:DA:1210:A:H8	31:DA:1210:A:H5'	1.62	0.60
31:DA:1722:A:N6	31:DA:1741:A:C2	2.69	0.60
31:DA:1956:U:H2'	31:DA:1957:C:H5'	1.81	0.60
31:DA:2590:A:H2'	31:DA:2591:C:H6	1.66	0.60
31:DA:2758:A:H2'	31:DA:2759:G:C5'	2.24	0.60
33:DD:44:ASN:HB2	33:DD:48:ARG:O	2.01	0.60
34:DE:36:ARG:HH21	34:DE:88:GLY:CA	1.99	0.60
44:DS:28:VAL:O	44:DS:29:PHE:HB3	2.01	0.60
44:DS:93:LYS:HE3	44:DS:93:LYS:C	2.25	0.60
45:DT:55:ASN:H	45:DT:59:THR:HG22	1.66	0.60
46:DU:34:LYS:HA	46:DU:34:LYS:HE2	1.82	0.60
49:DX:77:LYS:HG2	49:DX:78:LYS:N	2.16	0.60
1:AA:425:G:H2'	1:AA:426:G:H5'	1.83	0.60
1:AA:1084:G:C5	1:AA:1085:U:C4	2.88	0.60
3:AC:24:ALA:HB1	3:AC:28:GLN:O	2.01	0.60
10:AJ:26:ALA:HB1	10:AJ:29:ARG:HH21	1.66	0.60
10:AJ:49:VAL:HG11	14:AN:41:ARG:O	2.00	0.60
18:AR:32:ARG:HA	18:AR:69:THR:HG21	1.83	0.60
29:B7:5:TRP:NE1	29:B7:7:PRO:HG3	2.16	0.60
31:BA:662:G:OP1	41:BP:18:ARG:NH1	2.35	0.60
32:BB:28:C:H2'	32:BB:29:A:C8	2.35	0.60
35:BF:144:LYS:C	35:BF:146:ALA:H	2.10	0.60
46:BU:104:GLN:HB2	47:BV:43:GLU:OE1	2.02	0.60
51:BZ:8:TYR:HB2	51:BZ:38:TYR:CZ	2.36	0.60
51:BZ:108:PRO:CA	51:BZ:142:SER:HA	2.32	0.60
1:CA:189(C):C:C2'	1:CA:189(D):C:H5'	2.31	0.60
1:CA:355:C:C4	1:CA:356:A:N7	2.70	0.60
1:CA:1084:G:C5	1:CA:1085:U:C4	2.89	0.60
5:CE:55:VAL:O	5:CE:58:ALA:HB3	2.01	0.60
8:CH:88:LYS:HB3	8:CH:89:PRO:CD	2.30	0.60
9:CI:83:ARG:O	9:CI:86:VAL:HG12	2.02	0.60
13:CM:46:LYS:HG3	13:CM:47:ASP:H	1.67	0.60
15:CO:26:GLU:HA	15:CO:81:LEU:HD22	1.83	0.60
16:CP:49:LEU:HD12	16:CP:50:LYS:H	1.66	0.60
24:D2:49:LYS:O	24:D2:50:ILE:C	2.43	0.60
31:DA:535:C:C2'	31:DA:536:A:H5'	2.31	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1379:A:O2'	31:DA:1380:G:OP1	2.17	0.60
35:DF:28:ILE:HG21	35:DF:116:ASP:HB2	1.82	0.60
37:DH:98:LEU:HB2	37:DH:125:VAL:CG2	2.31	0.60
40:DO:3:GLN:HB2	40:DO:4:PRO:HD2	1.84	0.60
40:DO:23:ARG:HG3	40:DO:24:VAL:N	2.17	0.60
45:DT:36:GLU:HB3	45:DT:38:ASN:OD1	2.01	0.60
46:DU:90:VAL:O	46:DU:92:ARG:N	2.34	0.60
50:DY:37:VAL:CG2	50:DY:67:LEU:HB3	2.29	0.60
50:DY:45:VAL:HG22	50:DY:62:GLU:HB2	1.83	0.60
31:BA:151:C:C2'	31:BA:152:G:H5'	2.32	0.60
31:BA:925:C:H2'	31:BA:926:A:H5"	1.84	0.60
31:BA:971:C:C2'	31:BA:972:G:H5'	2.32	0.60
31:BA:1171:G:H3'	31:BA:1173:G:O4'	2.02	0.60
31:BA:1831:G:H2'	31:BA:1832:C:C6	2.37	0.60
31:BA:2593:U:H2'	31:BA:2594:C:C6	2.36	0.60
31:BA:2631:G:N2	34:BE:61:ARG:HH12	2.00	0.60
31:BA:2801:A:O2'	31:BA:2895:U:H4'	2.00	0.60
31:BA:2831:G:H5'	31:BA:2834:G:O2'	2.01	0.60
33:BD:83:GLU:HB2	33:BD:92:ILE:CD1	2.32	0.60
34:BE:61:ARG:N	34:BE:62:PRO:HD2	2.15	0.60
34:BE:103:ASP:CG	34:BE:168:MET:HE2	2.26	0.60
38:BI:82:ARG:HG2	38:BI:89:TYR:HD2	1.63	0.60
45:BT:17:THR:O	45:BT:18:ASP:CB	2.50	0.60
45:BT:28:VAL:O	45:BT:29:ARG:CD	2.50	0.60
45:BT:100:TYR:HB3	45:BT:103:ARG:HE	1.66	0.60
46:BU:27:LEU:HA	46:BU:30:LYS:HB2	1.84	0.60
46:BU:101:ARG:C	46:BU:102:GLU:HG2	2.25	0.60
49:BX:63:LYS:O	49:BX:68:ARG:HA	2.01	0.60
1:CA:409:G:C2'	1:CA:410:G:H5'	2.30	0.60
1:CA:475:G:H2'	1:CA:476:G:C8	2.33	0.60
1:CA:1321:C:C3'	1:CA:1322:C:H5"	2.31	0.60
9:CI:118:LYS:HZ3	9:CI:118:LYS:HB3	1.66	0.60
10:CJ:29:ARG:HH22	10:CJ:84:GLN:HG2	1.66	0.60
31:DA:528:A:N1	31:DA:2042:A:H2'	2.17	0.60
31:DA:1418:G:OP1	31:DA:1588:C:O2'	2.20	0.60
31:DA:1657:C:H2'	31:DA:1658:C:H6	1.67	0.60
31:DA:1810:A:H2'	31:DA:1811:G:H5'	1.82	0.60
31:DA:2102:U:C4	31:DA:2103:C:N4	2.70	0.60
32:DB:40:U:H1'	32:DB:45:A:H61	1.67	0.60
34:DE:59:VAL:HG22	34:DE:63:LEU:HA	1.83	0.60
34:DE:108:SER:HB3	34:DE:165:VAL:HG21	1.83	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DF:7:TYR:HD1	35:DF:8:GLN:H	1.49	0.60
42:DQ:81:VAL:C	42:DQ:82:ARG:CG	2.70	0.60
1:AA:186:C:H2'	1:AA:187:C:H6	1.66	0.60
1:AA:421:U:C4	3:AC:127:ARG:NH1	2.69	0.60
1:AA:1026:G:N3	1:AA:1026:G:H2'	2.16	0.60
3:AC:35:GLU:CD	3:AC:59:ARG:HH22	2.09	0.60
3:AC:113:ALA:HB3	3:AC:114:PRO:HD3	1.83	0.60
4:AD:9:CYS:SG	4:AD:22:LYS:HD2	2.42	0.60
12:AL:31:PRO:HB2	12:AL:32:PHE:CD2	2.37	0.60
17:AQ:50:LYS:HE3	17:AQ:51:TYR:CE1	2.37	0.60
28:B6:42:TRP:CZ2	31:BA:642:G:O3'	2.54	0.60
31:BA:1450(A):C:N4	31:BA:1451:C:H41	1.99	0.60
31:BA:1501:C:O2'	31:BA:1502:C:H5'	2.01	0.60
33:BD:160:GLY:H	33:BD:197:GLY:H	1.50	0.60
36:BG:19:LEU:HG	36:BG:175:LEU:HD12	1.84	0.60
37:BH:40:GLU:O	37:BH:41:MET:CB	2.49	0.60
37:BH:98:LEU:HB2	37:BH:125:VAL:CG2	2.31	0.60
39:BN:67:LEU:C	39:BN:69:GLN:H	2.09	0.60
39:BN:74:ARG:NH2	39:BN:101:HIS:HB3	2.17	0.60
49:BX:88:LYS:O	49:BX:89:ILE:HB	2.02	0.60
50:BY:8:LYS:HD3	50:BY:28:LYS:HZ2	1.66	0.60
1:CA:594:G:H1	1:CA:645:C:H42	1.48	0.60
1:CA:662:G:H2'	1:CA:663:A:H8	1.67	0.60
3:CC:66:VAL:HG11	3:CC:91:LEU:HD11	1.84	0.60
12:CL:91:LYS:O	12:CL:91:LYS:HG3	2.00	0.60
23:D1:8:SER:N	23:D1:46:LEU:CD1	2.65	0.60
24:D2:46:GLN:HE21	24:D2:47:ASN:N	2.00	0.60
31:DA:580:C:H2'	31:DA:581:C:C6	2.37	0.60
31:DA:827:U:O2'	31:DA:2068:U:C2	2.48	0.60
31:DA:993:G:H1'	47:DV:91:TYR:CE1	2.36	0.60
31:DA:1652:A:C2'	31:DA:1653:G:H5'	2.31	0.60
31:DA:1751:C:O2'	31:DA:1752:C:H5'	2.02	0.60
31:DA:2564:A:OP1	31:DA:2648:C:H4'	2.01	0.60
33:DD:176:ARG:HH11	33:DD:176:ARG:HG2	1.67	0.60
36:DG:64:THR:HG23	36:DG:65:GLY:N	2.17	0.60
47:DV:69:LYS:O	47:DV:70:ILE:HG23	2.01	0.60
51:DZ:19:ARG:HA	51:DZ:23:LYS:O	2.01	0.60
1:AA:191:G:C4	20:AT:105:SER:HB3	2.36	0.60
1:AA:509:A:O2'	1:AA:510:A:P	2.59	0.60
1:AA:542:G:H5'	4:AD:41:GLY:CA	2.32	0.60
16:AP:17:TYR:HE1	16:AP:41:PRO:HG3	1.67	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B1:21:ARG:NH1	31:BA:380:U:OP1	2.35	0.60
24:B2:32:LEU:O	24:B2:34:GLU:N	2.34	0.60
31:BA:271(R):G:O2'	31:BA:271(S):G:H5'	2.01	0.60
31:BA:819:A:C4	31:BA:1189:A:C2	2.90	0.60
31:BA:1049:C:H2'	31:BA:1049:C:O2	2.01	0.60
31:BA:1899:G:N2	31:BA:1902:C:N4	2.23	0.60
31:BA:2036:C:H5'	31:BA:2036:C:C6	2.30	0.60
31:BA:2405:G:HO2'	31:BA:2406:U:P	2.25	0.60
37:BH:43:VAL:CG1	37:BH:53:GLU:H	2.15	0.60
38:BI:92:VAL:HG13	38:BI:120:ILE:HB	1.84	0.60
42:BQ:30:GLY:CA	42:BQ:107:ALA:HB2	2.32	0.60
46:BU:91:ASP:O	46:BU:92:ARG:HB3	2.01	0.60
47:BV:35:LEU:HD23	47:BV:35:LEU:H	1.67	0.60
51:BZ:149:SER:HB2	51:BZ:172:ALA:O	2.02	0.60
1:CA:59:A:H5"	1:CA:60:A:C5'	2.31	0.60
1:CA:1173:G:H2'	1:CA:1174:G:H8	1.67	0.60
2:CB:103:THR:HA	2:CB:180:LEU:HD11	1.84	0.60
4:CD:31:CYS:C	4:CD:33:MET:N	2.57	0.60
8:CH:86:ILE:O	8:CH:87:SER:C	2.44	0.60
28:D6:11:LEU:CD2	28:D6:26:ASN:H	2.15	0.60
31:DA:542:C:N4	31:DA:543:C:N4	2.49	0.60
31:DA:1259:G:H2'	31:DA:1260:G:C8	2.36	0.60
31:DA:2807:G:H3'	31:DA:2808:U:H5"	1.84	0.60
45:DT:38:ASN:C	45:DT:38:ASN:ND2	2.59	0.60
46:DU:83:LEU:HB3	46:DU:88:ILE:CD1	2.32	0.60
47:DV:96:ILE:HG23	47:DV:97:LYS:N	2.15	0.60
1:AA:675:A:H2'	1:AA:676:A:H8	1.67	0.60
1:AA:1469:G:H2'	1:AA:1470:G:H8	1.67	0.60
8:AH:110:ALA:O	8:AH:112:LEU:HD23	2.02	0.60
29:B7:48:LYS:HD3	29:B7:48:LYS:N	2.16	0.60
30:B8:43:GLN:O	30:B8:44:LYS:CD	2.50	0.60
31:BA:542:C:H2'	31:BA:543:C:OP1	2.02	0.60
31:BA:635:C:O2'	31:BA:639:U:OP1	2.18	0.60
31:BA:1047:G:N2	31:BA:1111:A:H62	1.98	0.60
31:BA:1141:U:OP2	39:BN:63:THR:OG1	2.14	0.60
31:BA:1341:U:H2'	31:BA:1397:U:O2	2.02	0.60
31:BA:1880:C:H6	31:BA:1880:C:H5'	1.65	0.60
31:BA:1956:U:C2'	31:BA:1957:C:H5'	2.31	0.60
31:BA:2302:G:C6	31:BA:2315:G:C6	2.89	0.60
31:BA:2772:C:H2'	31:BA:2773:C:C6	2.36	0.60
31:BA:2807:G:H3'	31:BA:2808:U:H5"	1.83	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:43:ARG:HH11	33:BD:44:ASN:CG	2.09	0.60
37:BH:47:GLU:C	37:BH:49:VAL:H	2.10	0.60
42:BQ:137:TYR:HB2	51:BZ:76:LEU:HD11	1.84	0.60
45:BT:83:ILE:HG13	45:BT:84:GLN:N	2.10	0.60
50:BY:45:VAL:HG13	50:BY:62:GLU:CB	2.32	0.60
1:CA:243:A:H4'	1:CA:244:U:O5'	2.01	0.60
1:CA:389:A:H2'	1:CA:390:C:C5'	2.31	0.60
2:CB:54:THR:HG21	2:CB:201:ILE:HD11	1.83	0.60
4:CD:12:CYS:HA	4:CD:19:LEU:HD11	1.83	0.60
6:CF:75:LEU:CD2	6:CF:79:LEU:HD11	2.32	0.60
15:CO:54:ARG:HG2	15:CO:58:MET:HE2	1.82	0.60
19:CS:10:PHE:HE2	19:CS:37:ARG:O	1.85	0.60
24:D2:16:LEU:H	24:D2:18:PRO:HD2	1.67	0.60
31:DA:272(J):C:C2'	31:DA:274:G:OP1	2.50	0.60
31:DA:542:C:H2'	31:DA:543:C:OP1	2.02	0.60
31:DA:1171:G:H8	31:DA:1171:G:OP2	1.85	0.60
31:DA:2243:U:H2'	31:DA:2244:U:C6	2.36	0.60
32:DB:91:C:O2'	32:DB:92:C:H5'	2.01	0.60
33:DD:108:PRO:HB3	33:DD:143:HIS:HE1	1.64	0.60
34:DE:82:ARG:HG3	34:DE:83:ASP:N	2.17	0.60
36:DG:37:VAL:O	36:DG:94:LEU:HG	2.02	0.60
39:DN:1:MET:HB3	47:DV:20:LEU:HD22	1.84	0.60
42:DQ:63:LYS:HZ3	42:DQ:63:LYS:HB2	1.67	0.60
45:DT:33:LYS:H	45:DT:33:LYS:NZ	2.00	0.60
1:AA:954:G:N2	1:AA:1227:A:H62	1.94	0.59
1:AA:1277:C:H2'	1:AA:1278:U:H5'	1.83	0.59
2:AB:44:LEU:H	2:AB:44:LEU:HD12	1.65	0.59
3:AC:34:LEU:HD23	3:AC:34:LEU:O	2.02	0.59
6:AF:100:ASN:H	18:AR:23:LYS:HZ1	1.50	0.59
7:AG:115:ARG:HB2	7:AG:118:VAL:HG22	1.83	0.59
31:BA:624:C:H2'	31:BA:625:G:H5'	1.83	0.59
31:BA:790:C:O2'	31:BA:791:C:H5'	2.02	0.59
31:BA:1142(A):A:C8	31:BA:1144:G:N7	2.70	0.59
31:BA:2292:C:C2'	31:BA:2293:C:H5'	2.32	0.59
31:BA:2328:A:H2'	31:BA:2329:G:C8	2.37	0.59
31:BA:2496:C:OP1	42:BQ:81:VAL:HG13	2.02	0.59
31:BA:2682:U:C6	34:BE:11:MET:HE2	2.37	0.59
33:BD:32:SER:O	33:BD:33:LEU:CB	2.33	0.59
33:BD:71:ASP:HB3	33:BD:103:ARG:NH2	2.17	0.59
33:BD:231:HIS:CG	33:BD:232:PRO:HD2	2.36	0.59
34:BE:76:ARG:O	34:BE:77:ILE:HG22	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:41:MET:HG3	37:BH:54:ARG:HA	1.84	0.59
39:BN:32:THR:O	39:BN:35:ARG:O	2.20	0.59
47:BV:43:GLU:N	47:BV:48:GLY:HA2	2.17	0.59
49:BX:77:LYS:HG2	49:BX:78:LYS:N	2.16	0.59
51:BZ:150:LEU:C	51:BZ:151:HIS:HD2	2.10	0.59
2:CB:25:ASN:OD1	2:CB:25:ASN:C	2.45	0.59
5:CE:139:LEU:HA	5:CE:142:LEU:CD1	2.32	0.59
8:CH:64:LYS:O	8:CH:79:VAL:HB	2.02	0.59
10:CJ:26:ALA:HB1	10:CJ:29:ARG:HH21	1.66	0.59
23:D1:10:LYS:CG	23:D1:11:ARG:H	2.14	0.59
31:DA:83:G:N1	31:DA:102:G:H2'	2.17	0.59
31:DA:271(F):C:H2'	31:DA:271(G):C:H6	1.66	0.59
31:DA:271(Q):G:O2'	31:DA:271(R):G:P	2.60	0.59
31:DA:587:C:C4	41:DP:33:ARG:HG2	2.37	0.59
31:DA:720:C:O2'	31:DA:721:C:H5'	2.01	0.59
31:DA:774:A:C2	31:DA:787:U:O2'	2.53	0.59
31:DA:2287:A:C2	31:DA:2346:A:N1	2.65	0.59
31:DA:2825:C:H2'	31:DA:2826:A:H5'	1.83	0.59
39:DN:17:ASP:C	39:DN:19:GLU:H	2.10	0.59
44:DS:92:TYR:HD1	44:DS:93:LYS:H	1.47	0.59
50:DY:39:VAL:O	50:DY:40:GLU:CD	2.45	0.59
1:AA:52:G:C2'	1:AA:53:A:H5'	2.32	0.59
1:AA:719:C:H5	1:AA:720:C:C4	2.20	0.59
1:AA:865:A:C2	1:AA:918:A:H4'	2.37	0.59
1:AA:1320:C:O2'	19:AS:73:GLU:HG2	2.03	0.59
6:AF:79:LEU:O	6:AF:85:VAL:HG11	2.02	0.59
12:AL:74:GLY:O	12:AL:102:ARG:NH2	2.34	0.59
24:B2:25:VAL:HG22	24:B2:26:ARG:HH11	1.67	0.59
25:B3:19:GLN:NE2	25:B3:52:HIS:CE1	2.70	0.59
31:BA:34:C:O2'	31:BA:35:G:OP1	2.20	0.59
31:BA:1179:C:H2'	31:BA:1180:C:H5"	1.84	0.59
31:BA:1526:G:C6	31:BA:1527:G:C2	2.91	0.59
31:BA:1688:U:O2	31:BA:1700:A:H5"	2.01	0.59
31:BA:2751:G:H3'	31:BA:2752:C:H6	1.68	0.59
31:BA:2873:A:C2	43:BR:6:SER:HB2	2.35	0.59
32:BB:31:C:H4'	36:BG:29:TRP:CH2	2.38	0.59
33:BD:35:LYS:HE2	33:BD:65:ILE:HG22	1.84	0.59
36:BG:38:VAL:HG22	36:BG:93:THR:HG23	1.82	0.59
38:BI:56:LYS:HA	38:BI:59:ALA:HB3	1.83	0.59
39:BN:58:ASP:O	39:BN:60:ILE:N	2.35	0.59
44:BS:85:VAL:HG23	44:BS:106:ARG:HB2	1.83	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BX:65:ARG:NE	49:BX:66:LEU:N	2.47	0.59
50:BY:37:VAL:HG13	50:BY:69:ALA:HA	1.84	0.59
50:BY:37:VAL:HG22	50:BY:67:LEU:O	2.02	0.59
1:CA:539:A:OP2	12:CL:115:LYS:HE3	2.01	0.59
1:CA:830:G:H2'	1:CA:831:U:H6	1.66	0.59
1:CA:1355:G:H2'	1:CA:1356:G:C8	2.37	0.59
1:CA:1423:G:H2'	1:CA:1424:C:C6	2.37	0.59
2:CB:67:THR:O	2:CB:68:ILE:HD12	2.02	0.59
2:CB:102:LEU:HD12	2:CB:102:LEU:N	2.17	0.59
4:CD:17:VAL:HG11	4:CD:197:PRO:CB	2.32	0.59
4:CD:30:LYS:C	4:CD:32:ALA:H	2.09	0.59
6:CF:69:GLU:HG2	6:CF:70:ASP:H	1.66	0.59
10:CJ:34:VAL:CG2	10:CJ:74:ILE:HG22	2.32	0.59
14:CN:51:GLY:C	14:CN:53:LEU:H	2.10	0.59
16:CP:50:LYS:C	16:CP:50:LYS:HD3	2.27	0.59
28:D6:20:ASN:O	28:D6:21:TYR:CD1	2.55	0.59
31:DA:479:A:N3	31:DA:481:G:H5"	2.17	0.59
31:DA:542:C:O5'	31:DA:542:C:H6	1.84	0.59
31:DA:573:G:O2'	31:DA:574:C:H3'	2.02	0.59
31:DA:1164:G:H2'	31:DA:1165:U:C6	2.37	0.59
31:DA:1171:G:H3'	31:DA:1173:G:O4'	2.03	0.59
31:DA:2876:G:H4'	45:DT:3:ARG:HE	1.67	0.59
33:DD:255:LYS:HZ2	33:DD:255:LYS:N	1.98	0.59
34:DE:10:GLY:C	45:DT:8:LYS:HE3	2.27	0.59
35:DF:160:ASN:C	35:DF:160:ASN:ND2	2.60	0.59
37:DH:41:MET:CE	37:DH:41:MET:HA	2.27	0.59
41:DP:108:LYS:C	41:DP:110:TYR:N	2.60	0.59
1:AA:357:G:C2'	1:AA:358:U:H5'	2.32	0.59
1:AA:797:C:OP1	11:AK:124:LYS:HE2	2.02	0.59
1:AA:1321:C:C3'	1:AA:1322:C:H5"	2.33	0.59
4:AD:150:GLU:HG2	4:AD:151:LYS:H	1.67	0.59
30:B8:26:LYS:HZ1	30:B8:47:LYS:HD3	1.67	0.59
31:BA:271(D):G:C6	31:BA:271(E):U:C4	2.91	0.59
31:BA:287:C:C2	31:BA:288:C:C6	2.90	0.59
31:BA:528:A:H2	31:BA:2043:C:H5'	1.66	0.59
31:BA:542:C:C2'	31:BA:543:C:OP1	2.50	0.59
31:BA:1332:G:N2	31:BA:1610:A:C8	2.70	0.59
31:BA:2494:G:C2'	31:BA:2495:G:O5'	2.50	0.59
35:BF:83:PHE:C	35:BF:84:VAL:HG23	2.27	0.59
45:BT:29:ARG:HE	45:BT:84:GLN:CD	2.10	0.59
46:BU:12:ARG:HA	46:BU:15:LYS:HG2	1.82	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BV:38:LEU:HD22	47:BV:58:VAL:HB	1.84	0.59
47:BV:61:VAL:O	47:BV:62:LEU:HD23	2.02	0.59
1:CA:186:C:H2'	1:CA:187:C:H6	1.66	0.59
1:CA:236:G:C5	1:CA:237:C:C5	2.91	0.59
1:CA:709:G:H2'	1:CA:710:G:H8	1.67	0.59
1:CA:1085:U:C6	1:CA:1094:G:N1	2.70	0.59
1:CA:1320:C:O2'	19:CS:73:GLU:HG2	2.02	0.59
4:CD:128:VAL:O	4:CD:130:GLY:N	2.35	0.59
28:D6:19:ARG:O	28:D6:20:ASN:O	2.21	0.59
31:DA:993:G:C5'	47:DV:75:PHE:CZ	2.85	0.59
31:DA:1132:A:H1'	39:DN:73:THR:HG21	1.85	0.59
31:DA:2753:A:O2'	31:DA:2754:U:O5'	2.19	0.59
33:DD:211:ARG:O	33:DD:215:LEU:HG	2.02	0.59
36:DG:114:ILE:HB	36:DG:117:PHE:HB2	1.85	0.59
39:DN:74:ARG:NH2	39:DN:101:HIS:HB3	2.17	0.59
39:DN:96:GLU:O	39:DN:100:GLU:HG3	2.02	0.59
44:DS:89:ARG:HE	44:DS:90:GLY:H	1.48	0.59
45:DT:33:LYS:HZ3	45:DT:33:LYS:N	2.00	0.59
49:DX:40:LYS:CG	49:DX:41:ASN:N	2.66	0.59
1:AA:114:U:H2'	1:AA:115:G:C8	2.37	0.59
1:AA:1238:A:N6	1:AA:1299:A:N6	2.51	0.59
1:AA:1325:C:H4'	21:AU:17:THR:HG21	1.85	0.59
17:AQ:65:ILE:H	17:AQ:65:ILE:HD12	1.66	0.59
31:BA:1259:G:H2'	31:BA:1260:G:C8	2.37	0.59
35:BF:203:GLN:O	35:BF:206:ILE:O	2.20	0.59
45:BT:33:LYS:HA	45:BT:33:LYS:NZ	2.17	0.59
51:BZ:12:GLY:O	51:BZ:13:GLU:HG3	2.02	0.59
1:CA:360:A:O2'	1:CA:361:G:H5'	2.02	0.59
1:CA:605:U:H2'	1:CA:606:G:C8	2.37	0.59
1:CA:963:G:H21	10:CJ:55:LYS:CD	2.14	0.59
1:CA:1342:C:H1'	9:CI:124:GLN:NE2	2.17	0.59
3:CC:104:GLN:NE2	3:CC:105:GLU:H	2.00	0.59
4:CD:12:CYS:CA	4:CD:19:LEU:HD11	2.32	0.59
5:CE:78:HIS:HE1	5:CE:143:ARG:H	1.50	0.59
10:CJ:49:VAL:HG11	14:CN:41:ARG:O	2.01	0.59
20:CT:86:ARG:O	20:CT:90:GLN:HG3	2.03	0.59
31:DA:7:G:H1	31:DA:2896:C:H42	1.51	0.59
31:DA:90:U:H1'	31:DA:92:A:H5"	1.85	0.59
31:DA:414:C:O2'	31:DA:415:A:H5'	2.02	0.59
31:DA:1385:G:H4'	31:DA:1386:C:OP1	2.01	0.59
32:DB:52:A:O2'	32:DB:53:A:H8	1.84	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DD:3:VAL:HG13	33:DD:17:THR:HB	1.84	0.59
33:DD:35:LYS:CG	33:DD:64:ILE:N	2.64	0.59
36:DG:41:GLN:HG2	36:DG:155:MET:HB3	1.84	0.59
42:DQ:109:VAL:HG13	42:DQ:113:GLN:OE1	2.01	0.59
46:DU:49:HIS:HA	46:DU:52:ARG:HB2	1.85	0.59
47:DV:51:VAL:HG12	47:DV:52:VAL:H	1.66	0.59
1:AA:646:U:H2'	1:AA:647:C:H6	1.67	0.59
1:AA:1355:G:H2'	1:AA:1356:G:H8	1.67	0.59
1:AA:1493:A:O2'	31:BA:1913:A:N6	2.35	0.59
15:AO:82:ILE:HG13	15:AO:88:ARG:HG3	1.84	0.59
20:AT:63:ILE:HD13	20:AT:80:ARG:HB2	1.83	0.59
31:BA:280:C:H2'	31:BA:281:G:O5'	2.03	0.59
31:BA:676:A:H8	31:BA:2069:G:N2	1.92	0.59
31:BA:1952:A:C6	40:BO:22:ILE:HD11	2.37	0.59
31:BA:2404:C:H2'	31:BA:2405:G:H5"	1.85	0.59
33:BD:20:ASP:OD2	33:BD:22:SER:HB3	2.02	0.59
33:BD:35:LYS:CA	33:BD:64:ILE:HG22	2.32	0.59
42:BQ:57:HIS:CE1	42:BQ:116:GLU:HB3	2.38	0.59
46:BU:47:TYR:HA	46:BU:50:ARG:NH2	2.18	0.59
46:BU:87:GLY:HA3	47:BV:52:VAL:HG13	1.84	0.59
49:BX:34:ALA:O	49:BX:36:LYS:HE3	2.02	0.59
1:CA:307:C:C5	1:CA:308:C:C5	2.90	0.59
1:CA:675:A:H2'	1:CA:676:A:H8	1.67	0.59
5:CE:33:VAL:HG12	5:CE:34:VAL:H	1.68	0.59
12:CL:47:LYS:HB3	12:CL:48:PRO:CD	2.28	0.59
12:CL:119:LYS:HB2	12:CL:120:TYR:HD1	1.66	0.59
20:CT:61:SER:O	20:CT:65:LYS:HG3	2.02	0.59
24:D2:34:GLU:O	24:D2:36:ARG:N	2.35	0.59
30:D8:4:MET:HE1	31:DA:593:G:O4'	2.02	0.59
31:DA:322:A:C5	31:DA:340:A:C2	2.91	0.59
31:DA:708:C:H42	31:DA:723:G:H1	1.49	0.59
31:DA:1510:G:H2'	31:DA:1511:C:C6	2.37	0.59
32:DB:21:G:O2'	32:DB:22:U:P	2.61	0.59
37:DH:149:ARG:HA	37:DH:162:ILE:HG13	1.84	0.59
38:DI:37:VAL:HG12	38:DI:38:LEU:N	2.18	0.59
38:DI:133:HIS:CG	38:DI:134:PRO:HD2	2.37	0.59
39:DN:2:LYS:HD3	46:DU:95:LEU:HD21	1.83	0.59
40:DO:90:GLN:O	40:DO:91:LEU:HB2	2.02	0.59
43:DR:50:HIS:CE1	43:DR:54:LEU:HD11	2.38	0.59
49:DX:83:VAL:O	49:DX:84:ALA:CB	2.49	0.59
49:DX:83:VAL:O	49:DX:84:ALA:HB3	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DY:27:VAL:CB	50:DY:29:GLU:OE1	2.50	0.59
1:AA:199:G:O2'	1:AA:200:G:H5'	2.01	0.59
2:AB:185:ILE:HG22	2:AB:199:TYR:CB	2.17	0.59
4:AD:126:ILE:HG22	4:AD:127:THR:H	1.67	0.59
20:AT:97:ALA:O	20:AT:99:LEU:N	2.33	0.59
31:BA:272(J):C:C2'	31:BA:274:G:OP1	2.49	0.59
31:BA:529:A:H62	31:BA:2041:U:H3	1.51	0.59
31:BA:626:U:O2	41:BP:105:LEU:HG	2.02	0.59
31:BA:1210:A:H8	31:BA:1210:A:H5'	1.61	0.59
31:BA:2884:U:H2'	31:BA:2885:C:H5'	1.84	0.59
36:BG:55:LYS:HG2	36:BG:58:GLN:HE21	1.68	0.59
37:BH:127:GLU:HA	37:BH:127:GLU:OE1	2.03	0.59
43:BR:50:HIS:CE1	43:BR:54:LEU:HD11	2.37	0.59
44:BS:28:VAL:C	44:BS:89:ARG:HD2	2.27	0.59
45:BT:38:ASN:C	45:BT:38:ASN:ND2	2.59	0.59
45:BT:66:VAL:HA	45:BT:71:GLY:HA2	1.85	0.59
47:BV:52:VAL:O	47:BV:53:GLU:HB3	2.02	0.59
49:BX:32:PRO:HG3	49:BX:72:LYS:HD2	1.84	0.59
49:BX:59:VAL:HG23	49:BX:60:ARG:H	1.67	0.59
50:BY:35:TYR:CE2	50:BY:69:ALA:HB3	2.37	0.59
1:CA:189(K):U:H2'	1:CA:189(L):G:C8	2.37	0.59
1:CA:692:U:H2'	1:CA:694:A:OP2	2.02	0.59
6:CF:100:ASN:O	18:CR:28:GLU:HG2	2.02	0.59
9:CI:4:TYR:HA	9:CI:88:TYR:CE1	2.37	0.59
27:D5:51:TYR:HD2	27:D5:52:TYR:CZ	2.21	0.59
30:D8:59:LYS:NZ	30:D8:59:LYS:CB	2.53	0.59
31:DA:284:U:H2'	31:DA:285:C:H6	1.67	0.59
31:DA:622:G:O2'	31:DA:623:G:H5'	2.03	0.59
31:DA:1407:C:H2'	31:DA:1407:C:O2	2.02	0.59
31:DA:2036:C:H5'	31:DA:2036:C:C6	2.31	0.59
31:DA:2252:G:H2'	31:DA:2253:G:H8	1.66	0.59
33:DD:35:LYS:CA	33:DD:64:ILE:HG22	2.32	0.59
34:DE:27:LEU:HD22	45:DT:1:MET:CE	2.28	0.59
34:DE:134:ILE:HG12	34:DE:134:ILE:O	2.01	0.59
42:DQ:139:GLU:HG2	42:DQ:139:GLU:O	2.03	0.59
44:DS:74:ALA:HB1	44:DS:103:GLU:CB	2.33	0.59
46:DU:47:TYR:HA	46:DU:50:ARG:HH22	1.67	0.59
49:DX:60:ARG:HB2	49:DX:74:PRO:HD2	1.84	0.59
49:DX:88:LYS:O	49:DX:89:ILE:HB	2.01	0.59
50:DY:29:GLU:OE1	50:DY:29:GLU:N	2.36	0.59
1:AA:152:A:N6	1:AA:170:U:C2	2.70	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:428:G:C4'	1:AA:429:U:O5'	2.50	0.59
1:AA:826:C:H2'	1:AA:827:U:H6	1.67	0.59
2:AB:84:GLU:OE1	2:AB:219:VAL:HB	2.02	0.59
10:AJ:3:LYS:HD2	10:AJ:77:PRO:CD	2.33	0.59
26:B4:11:PRO:C	26:B4:13:ARG:H	2.09	0.59
30:B8:4:MET:HE1	31:BA:593:G:C1'	2.33	0.59
31:BA:143(A):C:H2'	31:BA:143(A):C:O2	2.02	0.59
31:BA:322:A:H5'	31:BA:340:A:H1'	1.83	0.59
31:BA:1047:G:H2'	31:BA:1110:G:N2	2.17	0.59
31:BA:1654:A:OP1	43:BR:3:HIS:CB	2.48	0.59
31:BA:2606:C:C2'	31:BA:2607:G:H5'	2.32	0.59
33:BD:209:ALA:C	33:BD:210:GLY:O	2.43	0.59
34:BE:103:ASP:OD2	34:BE:168:MET:HE2	2.01	0.59
35:BF:80:ALA:O	35:BF:83:PHE:HB2	2.03	0.59
35:BF:128:ALA:O	35:BF:142:TRP:NE1	2.35	0.59
39:BN:128:HIS:CD2	39:BN:131:GLN:CB	2.84	0.59
43:BR:87:TYR:HE1	43:BR:117:VAL:HG12	1.67	0.59
47:BV:66:ARG:NH1	47:BV:94:LEU:HD11	2.17	0.59
47:BV:72:VAL:HG12	47:BV:73:SER:N	2.16	0.59
1:CA:90:U:O2'	1:CA:91:C:C5	2.56	0.59
1:CA:775:G:O2'	1:CA:776:G:H5'	2.03	0.59
1:CA:1201:A:H4'	1:CA:1202:G:O5'	2.03	0.59
1:CA:1423:G:H2'	1:CA:1424:C:H6	1.67	0.59
1:CA:1497:G:H2'	1:CA:1498:U:H5'	1.84	0.59
5:CE:45:PHE:CD2	5:CE:47:LYS:HD2	2.38	0.59
12:CL:25:PRO:C	12:CL:27:LEU:H	2.09	0.59
23:D1:13:ILE:O	23:D1:14:VAL:HB	2.01	0.59
31:DA:529:A:H62	31:DA:2041:U:H3	1.51	0.59
31:DA:806:C:OP2	41:DP:39:LYS:CG	2.51	0.59
31:DA:2759:G:C8	31:DA:2759:G:C5'	2.82	0.59
36:DG:19:LEU:HD13	36:DG:32:PRO:HG2	1.84	0.59
37:DH:91:GLY:C	37:DH:92:ILE:HG13	2.28	0.59
39:DN:91:LEU:HA	39:DN:95:PRO:CB	2.29	0.59
47:DV:19:LYS:CG	47:DV:20:LEU:H	2.13	0.59
47:DV:72:VAL:HG12	47:DV:73:SER:N	2.16	0.59
49:DX:60:ARG:HG2	49:DX:72:LYS:H	1.66	0.59
1:AA:537:G:H2'	1:AA:538:G:H8	1.67	0.59
1:AA:758:G:H8	1:AA:758:G:O5'	1.85	0.59
2:AB:105:PHE:O	2:AB:107:THR:N	2.36	0.59
22:B0:18:ALA:HB1	31:BA:2271:G:OP1	2.03	0.59
30:B8:13:ARG:HD2	41:BP:61:ARG:HD3	1.84	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:543:C:H6	31:BA:547:A:N7	1.99	0.59
31:BA:1396:U:O2	31:BA:1396:U:C2'	2.51	0.59
31:BA:1405:U:H2'	31:BA:1406:U:H6	1.66	0.59
34:BE:176:ILE:HG22	34:BE:179:GLU:H	1.67	0.59
35:BF:28:ILE:HD12	35:BF:28:ILE:O	2.03	0.59
35:BF:28:ILE:HG21	35:BF:116:ASP:HB2	1.83	0.59
35:BF:46:ARG:HG2	35:BF:46:ARG:NH1	2.04	0.59
41:BP:62:LEU:N	41:BP:62:LEU:CD2	2.50	0.59
41:BP:107:LYS:O	41:BP:109:GLY:N	2.36	0.59
47:BV:51:VAL:HG12	47:BV:52:VAL:N	2.17	0.59
1:CA:186:C:H2'	1:CA:187:C:C6	2.37	0.59
1:CA:328:C:O2	1:CA:328:C:C2'	2.50	0.59
2:CB:204:ASN:HD22	2:CB:206:ASP:H	1.47	0.59
23:D1:37:ILE:HG21	31:DA:2080:G:OP1	2.03	0.59
23:D1:89:GLU:O	23:D1:93:GLU:N	2.36	0.59
31:DA:8:A:H2'	31:DA:9:U:C6	2.37	0.59
31:DA:192:C:H2'	31:DA:193:U:H5'	1.85	0.59
31:DA:2328:A:H2'	31:DA:2329:G:C8	2.37	0.59
31:DA:2476:A:N3	31:DA:2477:C:H5'	2.18	0.59
31:DA:2849:U:O4	45:DT:23:ARG:NH2	2.36	0.59
33:DD:72:LYS:NZ	33:DD:75:ILE:HD12	2.17	0.59
36:DG:31:VAL:HG13	36:DG:32:PRO:HD2	1.83	0.59
36:DG:55:LYS:HG2	36:DG:58:GLN:HE21	1.68	0.59
36:DG:76:SER:HB3	36:DG:84:LYS:H	1.67	0.59
39:DN:13:TRP:CZ3	39:DN:130:HIS:CE1	2.91	0.59
39:DN:33:LEU:HD12	39:DN:38:HIS:CE1	2.38	0.59
40:DO:18:LYS:HB2	40:DO:45:GLU:HG2	1.84	0.59
41:DP:97:PRO:O	41:DP:98:GLU:CB	2.46	0.59
44:DS:44:LYS:O	44:DS:46:VAL:HG23	2.03	0.59
46:DU:12:ARG:HA	46:DU:15:LYS:HG2	1.82	0.59
49:DX:41:ASN:O	49:DX:45:THR:HG23	2.01	0.59
51:DZ:149:SER:HB2	51:DZ:172:ALA:O	2.02	0.59
1:AA:118:U:C5	1:AA:288:A:C6	2.90	0.59
1:AA:657:G:C2	1:AA:750:G:C5	2.90	0.59
1:AA:963:G:H21	10:AJ:55:LYS:CD	2.15	0.59
1:AA:1301:U:H3'	1:AA:1302:U:H5"	1.84	0.59
1:AA:1372:U:OP1	9:AI:72:GLY:N	2.36	0.59
9:AI:125:TYR:HD2	9:AI:126:SER:N	2.01	0.59
13:AM:46:LYS:HG3	13:AM:47:ASP:H	1.68	0.59
23:B1:25:LYS:O	23:B1:26:ARG:HB3	2.02	0.59
23:B1:65:SER:H	23:B1:67:ILE:HD12	1.66	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:B2:16:LEU:H	24:B2:18:PRO:HD2	1.67	0.59
31:BA:534:U:O2'	46:BU:49:HIS:HD2	1.85	0.59
31:BA:1015:G:C2'	31:BA:1016:G:H5'	2.33	0.59
31:BA:1025:G:OP1	31:BA:1025:G:H8	1.85	0.59
31:BA:1266:G:O5'	48:BW:15:ARG:NH2	2.34	0.59
31:BA:2334:G:H5'	44:BS:13:ARG:HB3	1.84	0.59
31:BA:2662:A:H4'	31:BA:2663:G:O4'	2.03	0.59
31:BA:2690:C:OP2	43:BR:14:SER:HB3	2.03	0.59
31:BA:2753:A:O2'	31:BA:2754:U:O5'	2.20	0.59
31:BA:2876:G:H4'	45:BT:3:ARG:HE	1.68	0.59
41:BP:23:PRO:O	41:BP:33:ARG:NE	2.27	0.59
41:BP:75:ILE:N	41:BP:75:ILE:HD13	2.18	0.59
41:BP:85:LEU:H	41:BP:85:LEU:HD22	1.67	0.59
44:BS:44:LYS:O	44:BS:46:VAL:HG23	2.03	0.59
45:BT:78:LEU:O	45:BT:79:HIS:CG	2.55	0.59
45:BT:91:ARG:CB	45:BT:116:ALA:HA	2.31	0.59
47:BV:66:ARG:HD2	47:BV:67:GLY:CA	2.33	0.59
50:BY:96:ILE:CG1	50:BY:99:CYS:SG	2.91	0.59
8:CH:64:LYS:HG2	8:CH:79:VAL:HG21	1.84	0.59
16:CP:21:VAL:HG23	16:CP:33:ILE:HB	1.84	0.59
20:CT:71:THR:HG22	20:CT:72:LEU:HG	1.84	0.59
31:DA:626:U:O2	41:DP:105:LEU:HG	2.01	0.59
31:DA:836:G:C5	31:DA:837:C:C4	2.90	0.59
31:DA:2631:G:N2	34:DE:61:ARG:HH12	2.01	0.59
31:DA:2880:C:H1'	43:DR:92:GLY:O	2.03	0.59
31:DA:2880:C:O2'	43:DR:90:ARG:HD3	2.03	0.59
32:DB:52:A:HO2'	32:DB:53:A:H8	1.47	0.59
34:DE:60:ASN:N	34:DE:60:ASN:HD22	2.00	0.59
43:DR:12:ARG:HG3	43:DR:12:ARG:HH11	1.68	0.59
1:AA:1118:C:H1'	1:AA:1179:A:C5	2.38	0.59
1:AA:1150:U:O4	1:AA:1151:A:N6	2.35	0.59
4:AD:18:LYS:HE3	4:AD:31:CYS:SG	2.42	0.59
7:AG:69:VAL:O	7:AG:138:LYS:HG3	2.03	0.59
13:AM:15:VAL:O	13:AM:19:LEU:HD23	2.03	0.59
17:AQ:5:VAL:CG1	17:AQ:6:LEU:N	2.66	0.59
18:AR:62:GLU:HA	18:AR:65:ILE:CD1	2.33	0.59
24:B2:57:ILE:HG13	24:B2:58:ALA:C	2.28	0.59
28:B6:15:GLU:OE2	28:B6:41:PRO:HG3	2.03	0.59
31:BA:598:G:H5'	41:BP:15:ARG:HD2	1.83	0.59
31:BA:861:A:C2	31:BA:917:A:C4	2.91	0.59
31:BA:1163:G:O2'	31:BA:1164:G:H5'	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2335:A:C8	31:BA:2337:G:C5	2.90	0.59
34:BE:24:THR:HG23	34:BE:184:VAL:HG23	1.84	0.59
35:BF:84:VAL:C	35:BF:86:GLY:N	2.60	0.59
39:BN:17:ASP:O	39:BN:17:ASP:CG	2.45	0.59
39:BN:65:LYS:HD2	39:BN:67:LEU:HG	1.85	0.59
39:BN:134:ARG:O	39:BN:134:ARG:HG3	2.02	0.59
41:BP:51:PHE:CB	41:BP:52:GLU:HG2	2.31	0.59
46:BU:83:LEU:HB3	46:BU:88:ILE:HD11	1.84	0.59
49:BX:25:LYS:CG	49:BX:26:TYR:N	2.50	0.59
1:CA:41:G:H2'	1:CA:42:G:H8	1.68	0.59
1:CA:473:G:H5'	16:CP:81:ARG:HG3	1.83	0.59
1:CA:509:A:HO2'	1:CA:510:A:C5'	2.16	0.59
1:CA:537:G:OP1	12:CL:113:ARG:NH2	2.36	0.59
1:CA:877:C:H5"	8:CH:88:LYS:CD	2.32	0.59
1:CA:977:A:C2'	1:CA:978:A:H5'	2.33	0.59
7:CG:69:VAL:O	7:CG:138:LYS:HG3	2.03	0.59
8:CH:110:ALA:O	8:CH:112:LEU:HD23	2.03	0.59
20:CT:14:LYS:O	20:CT:18:GLN:HG3	2.03	0.59
30:D8:16:ILE:HD11	30:D8:57:ARG:CG	2.27	0.59
31:DA:151:C:C2'	31:DA:152:G:H5'	2.33	0.59
31:DA:691:C:O2'	31:DA:692:C:H5'	2.03	0.59
31:DA:882:G:H1	31:DA:894:C:H42	1.49	0.59
31:DA:1049:C:O2	31:DA:1049:C:H2'	2.03	0.59
31:DA:1478:G:C2'	31:DA:1479:G:H5'	2.33	0.59
31:DA:1784:A:H4'	31:DA:1785:A:H5"	1.85	0.59
31:DA:2476:A:C2	31:DA:2477:C:C6	2.91	0.59
33:DD:24:ILE:O	33:DD:24:ILE:HG23	2.03	0.59
35:DF:124:LEU:HD12	35:DF:125:LEU:N	2.17	0.59
39:DN:23:LEU:HD13	39:DN:98:VAL:HG12	1.84	0.59
44:DS:28:VAL:HG12	44:DS:29:PHE:N	2.17	0.59
50:DY:45:VAL:HG13	50:DY:62:GLU:CB	2.32	0.59
1:AA:1003:G:C2'	1:AA:1004:A:H4'	2.29	0.58
1:AA:1095:U:H2'	1:AA:1096:C:C6	2.37	0.58
1:AA:1239:A:H62	1:AA:1299:A:N6	2.01	0.58
2:AB:24:TRP:CG	2:AB:25:ASN:N	2.70	0.58
2:AB:163:PHE:HA	2:AB:185:ILE:HG12	1.84	0.58
3:AC:125:GLU:HA	3:AC:191:THR:HG22	1.84	0.58
5:AE:6:PHE:HB2	5:AE:34:VAL:HG13	1.85	0.58
13:AM:66:LEU:HD12	13:AM:66:LEU:N	2.16	0.58
27:B5:51:TYR:HD2	27:B5:52:TYR:CE2	2.19	0.58
31:BA:1865:G:N2	31:BA:1877:A:C8	2.71	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2233:U:H2'	31:BA:2234:G:C8	2.38	0.58
31:BA:2496:C:P	42:BQ:81:VAL:HG13	2.42	0.58
31:BA:2636:U:O2'	31:BA:2637:U:H5'	2.02	0.58
31:BA:2781:A:H5"	31:BA:2781:A:C8	2.37	0.58
31:BA:2807:G:H22	31:BA:2892:A:N6	2.01	0.58
31:BA:2875:C:H4'	45:BT:5:ALA:HB2	1.83	0.58
32:BB:30:C:H2'	32:BB:31:C:H5'	1.85	0.58
36:BG:114:ILE:HB	36:BG:117:PHE:HB2	1.85	0.58
42:BQ:43:THR:OG1	42:BQ:46:GLN:HG3	2.04	0.58
42:BQ:141:GLN:HG3	51:BZ:72:ARG:HD3	1.83	0.58
51:BZ:150:LEU:C	51:BZ:151:HIS:CD2	2.81	0.58
1:CA:191:G:C4	20:CT:105:SER:HB3	2.37	0.58
1:CA:658:G:C4	1:CA:659:U:C5	2.91	0.58
1:CA:791:G:C6	1:CA:792:A:N7	2.71	0.58
1:CA:1481:U:H2'	1:CA:1482:G:C8	2.38	0.58
3:CC:18:TRP:HD1	14:CN:51:GLY:O	1.86	0.58
3:CC:43:LEU:O	3:CC:47:LEU:HB3	2.02	0.58
4:CD:135:LEU:HB2	4:CD:138:TYR:HB2	1.83	0.58
5:CE:76:ILE:HG12	5:CE:77:PRO:HD2	1.84	0.58
5:CE:96:PRO:HA	5:CE:117:ASP:OD2	2.02	0.58
13:CM:95:GLY:HA2	13:CM:110:ARG:HH21	1.68	0.58
18:CR:58:LEU:HB3	18:CR:62:GLU:HB2	1.85	0.58
24:D2:26:ARG:CD	24:D2:29:LYS:HE2	2.33	0.58
27:D5:55:ARG:HD3	27:D5:56:LYS:H	1.68	0.58
29:D7:39:ARG:NH2	31:DA:468:G:N7	2.44	0.58
30:D8:23:VAL:HG12	30:D8:46:ARG:HH11	1.67	0.58
31:DA:107:C:C2	31:DA:108:U:C5	2.90	0.58
31:DA:195:A:C8	31:DA:197:A:OP1	2.56	0.58
31:DA:662:G:OP1	41:DP:18:ARG:NH1	2.36	0.58
31:DA:1141:U:OP2	39:DN:63:THR:OG1	2.11	0.58
32:DB:8:U:H6	32:DB:8:U:C5'	2.15	0.58
34:DE:176:ILE:HG22	34:DE:176:ILE:O	2.02	0.58
37:DH:77:LYS:HA	37:DH:80:SER:HB2	1.85	0.58
39:DN:128:HIS:HE1	39:DN:134:ARG:HD2	1.68	0.58
44:DS:26:LEU:HD22	44:DS:87:PHE:CE1	2.38	0.58
45:DT:17:THR:O	45:DT:18:ASP:CB	2.50	0.58
45:DT:28:VAL:HG22	45:DT:46:GLU:HA	1.85	0.58
49:DX:37:THR:HG23	49:DX:54:VAL:CG2	2.33	0.58
1:AA:1096:C:H2'	1:AA:1097:C:C6	2.38	0.58
5:AE:101:ILE:CD1	5:AE:119:LEU:HD23	2.33	0.58
8:AH:44:PHE:CD1	8:AH:80:ILE:HG12	2.38	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:32:GLU:OE2	13:AM:64:TRP:CH2	2.56	0.58
31:BA:768:G:O2'	31:BA:1379:A:N6	2.37	0.58
31:BA:2252:G:H2'	31:BA:2253:G:H8	1.68	0.58
32:BB:21:G:O6	32:BB:63:G:C5	2.55	0.58
34:BE:151:TYR:HD2	34:BE:154:LYS:NZ	2.01	0.58
36:BG:15:VAL:HG22	36:BG:175:LEU:HB3	1.85	0.58
38:BI:102:SER:HA	38:BI:107:VAL:O	2.02	0.58
42:BQ:30:GLY:HA2	42:BQ:107:ALA:HB2	1.86	0.58
42:BQ:97:VAL:HG11	42:BQ:103:MET:HE3	1.84	0.58
44:BS:74:ALA:HB1	44:BS:103:GLU:CB	2.33	0.58
45:BT:33:LYS:NZ	45:BT:33:LYS:H	2.00	0.58
51:BZ:28:MET:HE2	51:BZ:59:LEU:HD13	1.85	0.58
1:CA:78:G:H22	1:CA:91:C:H42	1.51	0.58
3:CC:35:GLU:CD	3:CC:59:ARG:HH22	2.11	0.58
4:CD:98:GLU:HG2	4:CD:194:LEU:HD11	1.85	0.58
11:CK:105:VAL:HG23	11:CK:105:VAL:O	2.03	0.58
13:CM:106:ASN:O	13:CM:107:ALA:HB3	2.03	0.58
23:D1:51:VAL:HG21	23:D1:67:ILE:HG23	1.84	0.58
24:D2:26:ARG:NE	24:D2:29:LYS:HE2	2.18	0.58
31:DA:34:C:H3'	31:DA:34:C:H6	1.67	0.58
31:DA:534:U:O2'	46:DU:49:HIS:CD2	2.56	0.58
31:DA:547:A:H8	31:DA:549:G:C6	2.21	0.58
31:DA:2335:A:C8	31:DA:2337:G:N7	2.71	0.58
31:DA:2394:C:P	41:DP:63:PRO:HD2	2.43	0.58
31:DA:2536:G:C6	31:DA:2537:U:C4	2.90	0.58
31:DA:2577:A:H5"	31:DA:2578:G:H5'	1.85	0.58
31:DA:2636:U:O2'	31:DA:2637:U:H5'	2.03	0.58
34:DE:76:ARG:O	34:DE:77:ILE:HG22	2.03	0.58
34:DE:95:ILE:HD12	34:DE:95:ILE:N	2.18	0.58
38:DI:94:ALA:HB1	38:DI:114:LEU:HD12	1.85	0.58
46:DU:64:ARG:NH2	46:DU:64:ARG:CA	2.52	0.58
48:DW:62:HIS:O	48:DW:63:ASP:C	2.45	0.58
49:DX:30:VAL:HG23	49:DX:76:ARG:HA	1.84	0.58
49:DX:77:LYS:CD	49:DX:78:LYS:HG3	2.32	0.58
1:AA:78:G:H22	1:AA:91:C:H42	1.51	0.58
1:AA:189:G:C6	1:AA:189(L):G:N1	2.71	0.58
1:AA:1342:C:H1'	9:AI:124:GLN:HE22	1.69	0.58
6:AF:82:ARG:HB2	6:AF:85:VAL:HG23	1.85	0.58
12:AL:18:VAL:HG23	12:AL:19:ARG:H	1.68	0.58
13:AM:95:GLY:HA2	13:AM:110:ARG:HH21	1.68	0.58
18:AR:31:LEU:HD23	18:AR:31:LEU:H	1.67	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:26:ASN:HB3	20:AT:71:THR:OG1	2.03	0.58
20:AT:56:MET:CG	20:AT:88:VAL:HG21	2.33	0.58
24:B2:14:ARG:CZ	24:B2:57:ILE:CG2	2.80	0.58
25:B3:43:ILE:O	25:B3:47:VAL:HG23	2.03	0.58
31:BA:65:C:H2'	31:BA:66:C:C6	2.39	0.58
31:BA:325:G:O2'	31:BA:326:G:H5'	2.03	0.58
31:BA:621:A:H2'	31:BA:622:G:H5'	1.85	0.58
31:BA:634:C:H2'	31:BA:635:C:C6	2.39	0.58
31:BA:1164:G:H2'	31:BA:1165:U:C6	2.38	0.58
31:BA:1496:A:C8	31:BA:1498:C:N3	2.71	0.58
31:BA:1866:C:H2'	31:BA:1876:A:O4'	2.02	0.58
31:BA:2572:A:N7	34:BE:144:ARG:HD2	2.18	0.58
31:BA:2887:U:H2'	31:BA:2888:C:C6	2.37	0.58
34:BE:101:ARG:HD2	34:BE:169:ASN:ND2	2.18	0.58
35:BF:181:LEU:HB3	35:BF:205:ARG:HH12	1.68	0.58
39:BN:47:ALA:HB2	39:BN:112:LEU:CD1	2.31	0.58
41:BP:105:LEU:HD12	41:BP:105:LEU:N	2.18	0.58
41:BP:108:LYS:C	41:BP:110:TYR:H	2.09	0.58
43:BR:33:ARG:HG2	43:BR:115:GLU:HG2	1.84	0.58
46:BU:8:VAL:HG13	46:BU:12:ARG:HG3	1.85	0.58
47:BV:61:VAL:C	47:BV:62:LEU:HD23	2.27	0.58
50:BY:96:ILE:HG13	50:BY:99:CYS:SG	2.43	0.58
51:BZ:119:GLU:C	51:BZ:121:HIS:H	2.11	0.58
1:CA:370:C:H2'	1:CA:371:G:H8	1.66	0.58
1:CA:448:A:OP2	1:CA:485:G:N2	2.33	0.58
1:CA:1026:G:H2'	1:CA:1026:G:N3	2.17	0.58
2:CB:47:THR:HG23	2:CB:202:PRO:HG2	1.84	0.58
3:CC:150:LYS:HE2	3:CC:152:ILE:HD11	1.85	0.58
9:CI:18:PHE:HB3	9:CI:20:ARG:NH1	2.19	0.58
19:CS:78:ARG:HB2	19:CS:81:ARG:HH11	1.68	0.58
24:D2:30:ARG:NH2	49:DX:11:PRO:HG3	2.18	0.58
24:D2:49:LYS:HB3	24:D2:53:LEU:HD23	1.85	0.58
31:DA:754:C:H2'	31:DA:755:C:H6	1.67	0.58
31:DA:848:G:N9	31:DA:933:A:H8	2.01	0.58
31:DA:1142:U:H5"	31:DA:1142(A):A:H5"	1.85	0.58
32:DB:48:A:H4'	44:DS:95:HIS:CD2	2.38	0.58
34:DE:34:VAL:HG22	34:DE:48:GLN:NE2	2.13	0.58
34:DE:37:ARG:O	34:DE:45:THR:HA	2.03	0.58
34:DE:66:HIS:O	34:DE:66:HIS:CG	2.56	0.58
35:DF:203:GLN:O	35:DF:206:ILE:O	2.21	0.58
38:DI:8:PRO:HA	38:DI:13:GLY:O	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DP:92:GLU:HA	41:DP:123:LEU:HD13	1.84	0.58
44:DS:33:LYS:HB3	44:DS:34:HIS:CD2	2.38	0.58
45:DT:45:PHE:HE2	45:DT:63:VAL:HG22	1.67	0.58
1:AA:25:C:H2'	1:AA:26:A:C8	2.39	0.58
1:AA:186:C:C2	1:AA:187:C:C5	2.91	0.58
1:AA:189(K):U:H2'	1:AA:189(L):G:C8	2.38	0.58
1:AA:808:C:P	15:AO:48:LYS:HE3	2.43	0.58
3:AC:66:VAL:HG11	3:AC:91:LEU:HD11	1.84	0.58
3:AC:150:LYS:HE2	3:AC:152:ILE:HD11	1.85	0.58
10:AJ:30:SER:OG	10:AJ:81:THR:HG22	2.03	0.58
18:AR:58:LEU:HB3	18:AR:62:GLU:HB2	1.85	0.58
29:B7:24:THR:HG23	29:B7:27:GLY:H	1.68	0.58
31:BA:607:U:OP1	35:BF:102:PRO:HA	2.03	0.58
31:BA:1239:G:H2'	31:BA:1240:U:O4'	2.04	0.58
31:BA:1385:G:H4'	31:BA:1386:C:OP1	2.03	0.58
31:BA:1810:A:H2'	31:BA:1811:G:H5'	1.85	0.58
31:BA:2500:U:H2'	31:BA:2504:U:H5	1.68	0.58
31:BA:2849:U:OP2	45:BT:95:ARG:NH1	2.36	0.58
32:BB:91:C:O2'	32:BB:92:C:H5'	2.02	0.58
33:BD:63:ARG:HH11	33:BD:63:ARG:HG3	1.68	0.58
34:BE:67:PHE:C	34:BE:69:LYS:H	2.10	0.58
37:BH:153:LYS:HB2	37:BH:154:PRO:HD3	1.85	0.58
45:BT:68:TYR:O	45:BT:70:VAL:N	2.36	0.58
1:CA:892:A:H2'	1:CA:893:C:C6	2.39	0.58
1:CA:929:G:N2	1:CA:1388:C:N3	2.35	0.58
1:CA:1074:G:C4	1:CA:1102:A:C2	2.91	0.58
9:CI:97:LYS:HB3	9:CI:98:PRO:HD3	1.85	0.58
9:CI:103:THR:HG22	9:CI:105:ASP:H	1.69	0.58
24:D2:25:VAL:HG13	24:D2:26:ARG:CD	2.28	0.58
26:D4:11:PRO:C	26:D4:13:ARG:H	2.11	0.58
31:DA:271(X):G:C2'	31:DA:271(Y):U:H5"	2.33	0.58
31:DA:1434:A:O2'	31:DA:1435:G:H5'	2.03	0.58
31:DA:1478:G:O2'	31:DA:1479:G:H5'	2.03	0.58
31:DA:2101:G:C6	31:DA:2102:U:C5	2.90	0.58
31:DA:2263:C:O2'	31:DA:2264:C:H5'	2.03	0.58
31:DA:2544:G:H1'	31:DA:2646:C:H4'	1.85	0.58
32:DB:31:C:H4'	36:DG:29:TRP:CH2	2.38	0.58
34:DE:95:ILE:HD12	34:DE:95:ILE:H	1.68	0.58
35:DF:63:LYS:CE	35:DF:67:GLN:HB2	2.33	0.58
36:DG:133:LEU:C	36:DG:133:LEU:HD12	2.28	0.58
38:DI:10:GLU:O	38:DI:12:LEU:HD23	2.04	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DI:86:THR:HG23	38:DI:122:GLU:OE2	2.03	0.58
41:DP:75:ILE:N	41:DP:75:ILE:HD13	2.18	0.58
1:AA:448:A:OP2	1:AA:485:G:N2	2.32	0.58
1:AA:509:A:HO2'	1:AA:510:A:C5'	2.16	0.58
6:AF:97:PHE:O	18:AR:31:LEU:HD23	2.04	0.58
11:AK:34:ASP:HB2	11:AK:35:PRO:CD	2.32	0.58
13:AM:46:LYS:HG3	13:AM:47:ASP:N	2.17	0.58
28:B6:15:GLU:HG2	28:B6:18:ARG:NH1	2.18	0.58
31:BA:185:U:H4'	31:BA:218:A:H4'	1.85	0.58
31:BA:271(P):C:O2'	31:BA:271(Q):G:H5'	2.04	0.58
31:BA:271(T):C:H2'	31:BA:271(T):C:O2	2.03	0.58
31:BA:479:A:N3	31:BA:481:G:H5"	2.18	0.58
31:BA:882:G:H1	31:BA:894:C:H42	1.51	0.58
31:BA:892:G:H2'	31:BA:893:C:O4'	2.04	0.58
31:BA:1132:A:H1'	39:BN:73:THR:HG21	1.84	0.58
31:BA:1493:C:C4	31:BA:2206:G:O2'	2.56	0.58
31:BA:1569:A:H5'	33:BD:61:LEU:HD21	1.84	0.58
31:BA:2657:A:H2	31:BA:2664:G:N2	1.98	0.58
33:BD:8:PRO:HB3	33:BD:14:ARG:CB	2.32	0.58
33:BD:27:THR:CG2	33:BD:83:GLU:HG2	2.17	0.58
34:BE:120:TRP:CE3	34:BE:155:LYS:HD3	2.38	0.58
35:BF:184:TYR:CE2	35:BF:188:ARG:HD2	2.38	0.58
36:BG:37:VAL:O	36:BG:94:LEU:HG	2.04	0.58
39:BN:17:ASP:C	39:BN:19:GLU:H	2.09	0.58
41:BP:71:VAL:HG12	41:BP:72:PRO:HD3	1.82	0.58
43:BR:60:LEU:O	43:BR:60:LEU:HG	2.03	0.58
45:BT:30:VAL:HG22	45:BT:84:GLN:O	2.03	0.58
47:BV:69:LYS:HB2	47:BV:93:GLU:CD	2.28	0.58
47:BV:80:GLN:OE1	47:BV:80:GLN:C	2.46	0.58
50:BY:96:ILE:H	50:BY:100:ALA:HA	1.67	0.58
1:CA:78:G:H22	1:CA:91:C:N4	2.02	0.58
1:CA:271:C:H2'	1:CA:272:C:C6	2.37	0.58
1:CA:503:C:H2'	1:CA:504:C:C6	2.39	0.58
1:CA:748:C:H1'	1:CA:749:C:OP2	2.03	0.58
1:CA:817:C:H4'	1:CA:818:G:OP1	2.02	0.58
1:CA:926:G:C6	1:CA:1505:G:C6	2.91	0.58
1:CA:1316:G:H2'	1:CA:1317:C:H5"	1.85	0.58
4:CD:119:GLN:O	4:CD:123:HIS:CD2	2.55	0.58
9:CI:125:TYR:HD2	9:CI:126:SER:N	2.02	0.58
10:CJ:4:ILE:HG12	10:CJ:100:THR:CG2	2.33	0.58
12:CL:40:VAL:HG12	12:CL:40:VAL:O	2.04	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:43:LYS:HG2	16:CP:48:TRP:CD2	2.38	0.58
17:CQ:50:LYS:HE3	17:CQ:51:TYR:CE1	2.38	0.58
24:D2:15:LYS:O	24:D2:16:LEU:HB3	2.03	0.58
31:DA:102:G:C2'	31:DA:103:A:OP2	2.50	0.58
31:DA:128:C:H2'	31:DA:129:C:H6	1.67	0.58
31:DA:719:C:H2'	31:DA:720:C:H6	1.68	0.58
31:DA:918:A:H5"	32:DB:98:G:O2'	2.03	0.58
31:DA:1666:G:C2'	31:DA:1667:G:H5'	2.33	0.58
31:DA:2069:G:H2'	31:DA:2070:G:H5'	1.85	0.58
31:DA:2287:A:N6	31:DA:2344:U:N3	2.49	0.58
31:DA:2290:G:C2	31:DA:2343:C:O2	2.56	0.58
35:DF:78:ILE:HA	35:DF:83:PHE:CD1	2.39	0.58
35:DF:128:ALA:O	35:DF:142:TRP:NE1	2.36	0.58
37:DH:85:LYS:NZ	37:DH:145:ALA:HA	2.18	0.58
43:DR:38:VAL:HG12	43:DR:42:LYS:HD2	1.85	0.58
47:DV:70:ILE:HB	47:DV:90:PRO:HB2	1.86	0.58
48:DW:14:PRO:O	48:DW:15:ARG:C	2.47	0.58
1:AA:1158:C:N4	1:AA:1181:G:H22	2.01	0.58
3:AC:18:TRP:HD1	14:AN:51:GLY:O	1.86	0.58
4:AD:58:LEU:CD2	4:AD:62:GLN:HG2	2.33	0.58
7:AG:153:HIS:HA	7:AG:155:ARG:NH1	2.19	0.58
24:B2:33:MET:CG	49:BX:11:PRO:HD2	2.34	0.58
31:BA:34:C:H6	31:BA:34:C:H3'	1.68	0.58
31:BA:271(D):G:H1	31:BA:271(T):C:H42	1.52	0.58
31:BA:1777:U:C2'	31:BA:1778:U:H5'	2.33	0.58
34:BE:116:VAL:HG23	34:BE:122:PHE:CG	2.38	0.58
36:BG:76:SER:HB3	36:BG:84:LYS:H	1.69	0.58
41:BP:23:PRO:CB	41:BP:33:ARG:HG3	2.24	0.58
44:BS:24:LEU:O	44:BS:85:VAL:HG12	2.04	0.58
44:BS:92:TYR:HD1	44:BS:93:LYS:H	1.49	0.58
45:BT:106:SER:O	45:BT:107:ASP:OD1	2.20	0.58
47:BV:72:VAL:HA	47:BV:88:ARG:NH1	2.16	0.58
51:BZ:67:LEU:HD12	51:BZ:67:LEU:N	2.19	0.58
51:BZ:121:HIS:ND1	51:BZ:169:GLU:OE2	2.36	0.58
1:CA:300:A:H1'	1:CA:565:U:O2	2.04	0.58
1:CA:626:U:H2'	1:CA:627:G:C8	2.38	0.58
1:CA:1095:U:H2'	1:CA:1096:C:C6	2.39	0.58
1:CA:1154:G:H2'	1:CA:1155:G:H8	1.67	0.58
2:CB:228:GLY:O	2:CB:230:VAL:HG13	2.03	0.58
4:CD:43:HIS:HB3	4:CD:46:LYS:HD2	1.85	0.58
4:CD:106:TYR:HE1	4:CD:112:VAL:O	1.87	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:51:VAL:HG21	8:CH:60:ARG:HG2	1.84	0.58
10:CJ:30:SER:OG	10:CJ:81:THR:HG22	2.04	0.58
27:D5:16:ARG:NH1	27:D5:17:ASP:OD1	2.37	0.58
31:DA:69:C:O2'	31:DA:70:G:H5'	2.04	0.58
31:DA:271(D):G:C6	31:DA:271(E):U:C4	2.91	0.58
31:DA:856:C:C3'	31:DA:857:C:H6	2.16	0.58
31:DA:861:A:H2'	31:DA:862:G:O4'	2.02	0.58
31:DA:2392:A:C8	41:DP:60:MET:HG2	2.39	0.58
31:DA:2781:A:H5"	31:DA:2781:A:C8	2.38	0.58
32:DB:40:U:H1'	32:DB:45:A:N6	2.19	0.58
36:DG:45:GLU:HB2	36:DG:47:LYS:HG3	1.86	0.58
41:DP:48:PRO:O	41:DP:51:PHE:N	2.36	0.58
46:DU:92:ARG:NH2	47:DV:10:LYS:HB3	2.18	0.58
50:DY:8:LYS:HD3	50:DY:28:LYS:HZ2	1.66	0.58
1:AA:622:A:C8	1:AA:623:C:C5	2.91	0.58
1:AA:1201:A:H4'	1:AA:1202:G:O5'	2.03	0.58
1:AA:1418:A:C2	1:AA:1483:A:C2	2.91	0.58
9:AI:116:LYS:O	9:AI:118:LYS:N	2.37	0.58
18:AR:52:PRO:O	18:AR:56:THR:HG23	2.03	0.58
30:B8:62:LEU:O	30:B8:64:TYR:N	2.36	0.58
31:BA:102:G:C2'	31:BA:103:A:OP2	2.52	0.58
31:BA:251:A:C5'	41:BP:51:PHE:HZ	2.15	0.58
31:BA:642:G:H21	31:BA:646:A:H2	1.49	0.58
31:BA:2713:A:H3'	31:BA:2714:G:C5'	2.33	0.58
31:BA:2875:C:O2'	45:BT:5:ALA:HB3	2.03	0.58
33:BD:44:ASN:HB3	33:BD:49:ILE:CA	2.24	0.58
33:BD:176:ARG:HH11	33:BD:176:ARG:HG2	1.69	0.58
36:BG:47:LYS:HE2	36:BG:81:LYS:HB2	1.86	0.58
38:BI:86:THR:HG23	38:BI:122:GLU:OE2	2.03	0.58
39:BN:67:LEU:C	39:BN:69:GLN:N	2.61	0.58
47:BV:51:VAL:HG12	47:BV:52:VAL:H	1.68	0.58
48:BW:40:ASN:O	48:BW:41:LYS:HG2	2.04	0.58
49:BX:56:THR:C	49:BX:57:LEU:HD12	2.29	0.58
1:CA:522:C:H41	12:CL:53:ARG:HH22	1.51	0.58
1:CA:542:G:O2'	1:CA:543:C:H5'	2.04	0.58
7:CG:153:HIS:HA	7:CG:155:ARG:NH1	2.18	0.58
8:CH:53:VAL:O	8:CH:54:ASP:HB2	2.03	0.58
23:D1:19:GLN:HG3	23:D1:44:PRO:HG3	1.85	0.58
24:D2:15:LYS:HA	24:D2:18:PRO:HD2	1.86	0.58
30:D8:25:MET:CG	41:DP:64:LYS:HB3	2.27	0.58
30:D8:39:LYS:C	30:D8:39:LYS:CD	2.77	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:32:C:O2'	31:DA:33:U:H5'	2.03	0.58
31:DA:185:U:H4'	31:DA:218:A:H4'	1.86	0.58
31:DA:676:A:H8	31:DA:2069:G:N2	1.98	0.58
31:DA:838:C:O2'	31:DA:839:U:H5'	2.04	0.58
31:DA:1142(A):A:C8	31:DA:1144:G:N7	2.71	0.58
31:DA:1190:G:H5'	41:DP:35:HIS:HB3	1.86	0.58
31:DA:2467:C:C2'	31:DA:2468:G:H5'	2.34	0.58
32:DB:48:A:H2'	32:DB:49:C:C6	2.38	0.58
33:DD:61:LEU:O	33:DD:63:ARG:NH1	2.37	0.58
33:DD:85:ASP:HB2	33:DD:92:ILE:HG13	1.85	0.58
35:DF:22:ALA:CA	35:DF:26:ALA:HB2	2.34	0.58
35:DF:34:TRP:HB2	41:DP:10:PRO:O	2.04	0.58
41:DP:75:ILE:HD13	41:DP:75:ILE:H	1.69	0.58
42:DQ:66:ILE:O	42:DQ:66:ILE:HG13	2.04	0.58
46:DU:91:ASP:OD2	46:DU:96:ALA:HB2	2.03	0.58
48:DW:9:TYR:N	48:DW:102:HIS:HD2	1.97	0.58
1:AA:456:C:N4	1:AA:475:G:H1	2.01	0.58
1:AA:667:G:H4'	15:AO:51:HIS:ND1	2.17	0.58
1:AA:748:C:H1'	1:AA:749:C:OP2	2.04	0.58
1:AA:1441:G:H5"	1:AA:1442:G:H5'	1.84	0.58
2:AB:79:ASP:C	2:AB:81:VAL:H	2.12	0.58
4:AD:33:MET:HE3	4:AD:33:MET:HA	1.86	0.58
4:AD:43:HIS:HB3	4:AD:46:LYS:HD2	1.85	0.58
5:AE:98:THR:HG22	5:AE:99:GLY:N	2.16	0.58
8:AH:20:TYR:HA	8:AH:65:TYR:CE2	2.39	0.58
23:B1:92:LYS:C	23:B1:94:LEU:N	2.59	0.58
31:BA:614:U:O2	31:BA:614:U:O5'	2.22	0.58
31:BA:1280:G:C3'	31:BA:1281:G:H5"	2.32	0.58
31:BA:1316:U:C2'	31:BA:1317:A:H5'	2.34	0.58
31:BA:1579:A:H2'	31:BA:1580:A:C8	2.38	0.58
33:BD:27:THR:HG23	33:BD:28:GLU:H	1.62	0.58
37:BH:89:ILE:O	37:BH:90:LYS:CB	2.51	0.58
39:BN:40:PRO:CA	46:BU:64:ARG:NH2	2.67	0.58
42:BQ:140:ALA:CB	51:BZ:99:TYR:HB2	2.33	0.58
43:BR:33:ARG:HG2	43:BR:115:GLU:HG3	1.83	0.58
50:BY:71:LYS:HB2	50:BY:71:LYS:HZ3	1.68	0.58
4:CD:61:LYS:HD3	4:CD:62:GLN:HE21	1.67	0.58
4:CD:146:ILE:HD12	4:CD:146:ILE:H	1.65	0.58
5:CE:33:VAL:HG12	5:CE:34:VAL:N	2.18	0.58
8:CH:44:PHE:CD1	8:CH:80:ILE:HG12	2.39	0.58
11:CK:34:ASP:HB2	11:CK:35:PRO:CD	2.32	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:18:VAL:HG23	12:CL:19:ARG:H	1.68	0.58
13:CM:24:GLY:C	13:CM:25:ILE:HD12	2.29	0.58
13:CM:61:GLU:HA	13:CM:66:LEU:HD11	1.84	0.58
19:CS:24:ALA:O	19:CS:25:LYS:HB2	2.04	0.58
31:DA:71:A:OP2	31:DA:71:A:H3'	2.03	0.58
31:DA:1427:A:H4'	31:DA:1428:C:O5'	2.02	0.58
31:DA:1831:G:H2'	31:DA:1832:C:C6	2.39	0.58
32:DB:30:C:H2'	32:DB:31:C:H5'	1.85	0.58
33:DD:35:LYS:HZ3	33:DD:104:TYR:CB	2.15	0.58
33:DD:197:GLY:O	33:DD:198:ASN:HB3	2.04	0.58
35:DF:160:ASN:ND2	35:DF:162:LEU:H	2.02	0.58
37:DH:40:GLU:O	37:DH:41:MET:CB	2.50	0.58
37:DH:92:ILE:C	37:DH:94:TYR:H	2.10	0.58
37:DH:117:PRO:HA	37:DH:123:PHE:HE1	1.69	0.58
43:DR:95:THR:HA	43:DR:116:LEU:O	2.03	0.58
47:DV:61:VAL:C	47:DV:62:LEU:HD23	2.28	0.58
1:AA:59:A:H2'	1:AA:59:A:N3	2.19	0.58
1:AA:78:G:H22	1:AA:91:C:N4	2.02	0.58
1:AA:271:C:H2'	1:AA:272:C:C6	2.39	0.58
1:AA:473:G:H5'	16:AP:81:ARG:HG3	1.85	0.58
1:AA:692:U:H2'	1:AA:694:A:OP2	2.04	0.58
1:AA:724:G:C2	1:AA:725:G:C8	2.91	0.58
2:AB:21:ARG:CB	2:AB:39:ILE:HA	2.34	0.58
2:AB:61:LEU:HD21	2:AB:68:ILE:HD11	1.84	0.58
2:AB:111:ARG:HH11	2:AB:111:ARG:CG	2.03	0.58
24:B2:46:GLN:HE21	24:B2:47:ASN:N	2.02	0.58
27:B5:50:GLY:O	27:B5:51:TYR:HD1	1.86	0.58
28:B6:23:THR:HG21	31:BA:2419:U:H4'	1.85	0.58
31:BA:13:A:N1	31:BA:525:U:H2'	2.19	0.58
31:BA:90:U:H1'	31:BA:92:A:H5"	1.84	0.58
31:BA:1141:U:H2'	39:BN:63:THR:CG2	2.34	0.58
31:BA:2467:C:C2'	31:BA:2468:G:H5'	2.34	0.58
33:BD:35:LYS:HE3	33:BD:64:ILE:C	2.28	0.58
34:BE:27:LEU:CD2	45:BT:1:MET:HE2	2.30	0.58
39:BN:36:GLY:H	39:BN:42:TRP:HZ3	1.50	0.58
39:BN:129:PRO:O	39:BN:130:HIS:CB	2.51	0.58
43:BR:53:HIS:CD2	43:BR:94:TYR:OH	2.51	0.58
45:BT:33:LYS:NZ	45:BT:33:LYS:N	2.52	0.58
46:BU:91:ASP:OD2	46:BU:96:ALA:HB2	2.02	0.58
48:BW:12:ILE:HG23	48:BW:17:VAL:CG2	2.33	0.58
1:CA:105:G:H2'	1:CA:106:C:C6	2.38	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:524:G:H2'	1:CA:525:C:C6	2.39	0.58
1:CA:1073:U:H2'	1:CA:1074:G:C8	2.39	0.58
1:CA:1301:U:H3'	1:CA:1302:U:H5"	1.85	0.58
2:CB:189:ASP:OD1	2:CB:189:ASP:N	2.37	0.58
19:CS:42:PRO:O	19:CS:43:GLU:HB3	2.04	0.58
28:D6:23:THR:HG21	31:DA:2419:U:H4'	1.86	0.58
31:DA:154:G:N1	31:DA:154(A):C:N4	2.50	0.58
31:DA:330:A:HO2'	31:DA:331:A:H8	1.48	0.58
31:DA:588:U:H2'	31:DA:589:C:H6	1.69	0.58
31:DA:1496:A:C8	31:DA:1577:C:O2'	2.55	0.58
31:DA:1526:G:C6	31:DA:1527:G:C2	2.91	0.58
31:DA:2762:G:H5'	31:DA:2762:G:C8	2.36	0.58
33:DD:80:ALA:HB2	33:DD:96:HIS:CG	2.39	0.58
35:DF:53:THR:HB	35:DF:56:GLU:OE1	2.03	0.58
35:DF:119:ARG:HH11	35:DF:119:ARG:HG2	1.68	0.58
35:DF:182:ASN:O	35:DF:186:ILE:HG12	2.04	0.58
39:DN:17:ASP:OD2	39:DN:19:GLU:HB3	2.03	0.58
39:DN:19:GLU:HG3	39:DN:20:GLY:N	2.16	0.58
39:DN:128:HIS:CD2	39:DN:131:GLN:CB	2.83	0.58
41:DP:85:LEU:HD22	41:DP:85:LEU:H	1.69	0.58
44:DS:65:VAL:O	44:DS:67:ARG:N	2.36	0.58
47:DV:1:MET:HE1	47:DV:42:GLY:C	2.29	0.58
1:AA:131:C:H2'	1:AA:132:C:H6	1.68	0.58
8:AH:36:LEU:C	8:AH:38:ILE:H	2.12	0.58
9:AI:48:GLU:N	9:AI:49:PRO:HD2	2.18	0.58
31:BA:154(A):C:H5	31:BA:171:G:H1	1.52	0.58
31:BA:884:C:O2'	31:BA:892:G:C8	2.50	0.58
31:BA:1110:G:OP1	31:BA:1110:G:H4'	2.04	0.58
35:BF:22:ALA:CA	35:BF:26:ALA:HB2	2.33	0.58
35:BF:34:TRP:HB2	41:BP:10:PRO:O	2.03	0.58
37:BH:92:ILE:C	37:BH:94:TYR:H	2.11	0.58
38:BI:126:TYR:O	38:BI:139:GLN:HA	2.02	0.58
42:BQ:34:LEU:HD11	42:BQ:129:THR:CB	2.33	0.58
43:BR:95:THR:HA	43:BR:116:LEU:O	2.04	0.58
44:BS:74:ALA:HB1	44:BS:103:GLU:HB2	1.86	0.58
45:BT:58:ASN:C	45:BT:58:ASN:HD22	2.12	0.58
49:BX:33:LYS:O	49:BX:34:ALA:C	2.47	0.58
50:BY:81:LYS:HG2	50:BY:96:ILE:HG23	1.86	0.58
20:CT:23:ARG:O	20:CT:27:LYS:HB2	2.03	0.58
27:D5:50:GLY:O	27:D5:51:TYR:CD1	2.57	0.58
31:DA:477:A:H2'	31:DA:478:A:C8	2.39	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:892:G:H2'	31:DA:893:C:O4'	2.04	0.58
31:DA:1204:A:H2	31:DA:1241:A:N1	2.02	0.58
31:DA:1559:G:H5'	31:DA:1559:G:N3	2.19	0.58
31:DA:1686:C:O2	31:DA:1686:C:H2'	2.04	0.58
31:DA:1858:G:O2'	31:DA:1884:A:N6	2.37	0.58
31:DA:2258:C:H4'	31:DA:2259:G:OP2	2.04	0.58
31:DA:2302:G:C6	31:DA:2315:G:C6	2.90	0.58
31:DA:2464:C:O2'	31:DA:2465:C:P	2.62	0.58
33:DD:12:SER:HB2	33:DD:208:LYS:HB3	1.85	0.58
34:DE:61:ARG:N	34:DE:62:PRO:HD2	2.18	0.58
36:DG:15:VAL:HG22	36:DG:175:LEU:HB3	1.85	0.58
39:DN:63:THR:O	39:DN:64:GLY:O	2.22	0.58
42:DQ:77:LYS:HE3	42:DQ:82:ARG:HA	1.85	0.58
43:DR:13:HIS:HE1	43:DR:15:SER:OG	1.86	0.58
45:DT:87:ASP:OD1	45:DT:87:ASP:C	2.46	0.58
46:DU:104:GLN:HB2	47:DV:43:GLU:OE1	2.03	0.58
50:DY:96:ILE:CG1	50:DY:99:CYS:SG	2.91	0.58
1:AA:78:G:H1	1:AA:91:C:H42	1.52	0.57
1:AA:192:U:O2'	1:AA:193:C:H5'	2.03	0.57
1:AA:343:U:O2'	1:AA:346:G:O6	2.18	0.57
1:AA:626:U:H2'	1:AA:627:G:C8	2.38	0.57
1:AA:1256:A:H61	1:AA:1278:U:C1'	2.04	0.57
9:AI:17:VAL:HG13	9:AI:63:ILE:HG13	1.86	0.57
9:AI:83:ARG:O	9:AI:86:VAL:HG12	2.03	0.57
13:AM:75:ALA:O	13:AM:79:LYS:HG3	2.04	0.57
24:B2:15:LYS:O	24:B2:16:LEU:HB3	2.04	0.57
28:B6:12:GLU:CB	28:B6:23:THR:HA	2.34	0.57
31:BA:128:C:H3'	31:BA:128:C:C6	2.39	0.57
31:BA:271(Q):G:O2'	31:BA:271(R):G:P	2.62	0.57
31:BA:530:G:O4'	31:BA:530:G:N3	2.34	0.57
31:BA:637:A:H4'	31:BA:638:G:O5'	2.04	0.57
31:BA:1174:A:OP1	31:BA:1175:U:OP1	2.22	0.57
31:BA:1794:U:H2'	31:BA:1795:C:C6	2.39	0.57
31:BA:2599:G:OP2	33:BD:236:GLY:N	2.36	0.57
33:BD:70:TRP:HZ3	33:BD:146:GLU:OE2	1.86	0.57
41:BP:71:VAL:CG1	41:BP:72:PRO:CD	2.70	0.57
41:BP:80:TYR:CD1	41:BP:111:ARG:HB3	2.39	0.57
43:BR:71:GLN:HE21	43:BR:71:GLN:CA	2.10	0.57
44:BS:97:ARG:C	44:BS:97:ARG:CD	2.77	0.57
45:BT:31:SER:C	45:BT:32:TYR:CD2	2.82	0.57
1:CA:163:C:H2'	1:CA:164:U:C6	2.39	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:189:G:C6	1:CA:189(A):C:C4	2.92	0.57
1:CA:192:U:O2'	1:CA:193:C:H5'	2.04	0.57
2:CB:8:LYS:HZ3	2:CB:217:ARG:HH11	1.51	0.57
3:CC:148:GLY:HA3	3:CC:172:ARG:O	2.04	0.57
7:CG:26:PHE:O	7:CG:30:ILE:HG12	2.03	0.57
13:CM:15:VAL:HG12	13:CM:45:VAL:HG22	1.86	0.57
18:CR:31:LEU:H	18:CR:31:LEU:CD2	2.16	0.57
31:DA:128:C:H2'	31:DA:129:C:O4'	2.04	0.57
31:DA:634:C:H2'	31:DA:635:C:H6	1.69	0.57
31:DA:1106:A:C2'	31:DA:1107:G:O5'	2.52	0.57
31:DA:2275:C:O2'	42:DQ:83:MET:HA	2.04	0.57
31:DA:2582:G:C2	31:DA:2583:G:C8	2.92	0.57
31:DA:2682:U:C6	34:DE:11:MET:HE2	2.39	0.57
32:DB:75:G:H8	32:DB:75:G:C5'	2.10	0.57
33:DD:270:ILE:C	33:DD:271:ILE:HG13	2.29	0.57
35:DF:155:LEU:HD23	35:DF:186:ILE:HD13	1.85	0.57
36:DG:23:PHE:CZ	36:DG:171:ALA:HB3	2.39	0.57
37:DH:158:HIS:CE1	37:DH:170:ARG:N	2.72	0.57
38:DI:5:LEU:O	38:DI:6:LEU:HD23	2.04	0.57
39:DN:42:TRP:CB	46:DU:64:ARG:NH1	2.58	0.57
39:DN:128:HIS:CE1	39:DN:134:ARG:HD2	2.38	0.57
45:DT:106:SER:O	45:DT:107:ASP:OD1	2.22	0.57
1:AA:1135:U:H4'	1:AA:1136:U:H5	1.70	0.57
1:AA:1316:G:H2'	1:AA:1317:C:H5"	1.86	0.57
3:AC:104:GLN:NE2	3:AC:105:GLU:H	2.02	0.57
19:AS:24:ALA:O	19:AS:25:LYS:HB2	2.04	0.57
19:AS:29:ARG:HB3	19:AS:47:HIS:HA	1.86	0.57
19:AS:78:ARG:HB2	19:AS:81:ARG:HH11	1.68	0.57
20:AT:23:ARG:O	20:AT:27:LYS:HB2	2.03	0.57
27:B5:2:ALA:N	31:BA:747:U:N3	2.52	0.57
27:B5:50:GLY:HA3	27:B5:56:LYS:HG2	1.85	0.57
31:BA:364:C:H2'	31:BA:364:C:O2	2.03	0.57
31:BA:1042:G:N3	31:BA:1042:G:H2'	2.18	0.57
31:BA:1047:G:N3	31:BA:1111:A:N6	2.53	0.57
31:BA:1204:A:N1	31:BA:1241:A:N1	2.52	0.57
35:BF:1:MET:O	35:BF:2:LYS:C	2.47	0.57
37:BH:35:VAL:O	37:BH:37:VAL:HG23	2.03	0.57
39:BN:1:MET:HB3	47:BV:20:LEU:HD22	1.85	0.57
39:BN:3:THR:CG2	39:BN:4:TYR:H	2.01	0.57
39:BN:58:ASP:N	39:BN:58:ASP:OD1	2.37	0.57
42:BQ:8:LYS:CG	42:BQ:9:TYR:N	2.53	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BQ:141:GLN:N	51:BZ:53:ILE:HB	2.20	0.57
50:BY:8:LYS:HB2	50:BY:28:LYS:CE	2.34	0.57
50:BY:81:LYS:HG2	50:BY:96:ILE:CG2	2.33	0.57
1:CA:1135:U:H4'	1:CA:1136:U:H5	1.69	0.57
5:CE:7:GLU:HG2	5:CE:112:LEU:HD22	1.85	0.57
5:CE:42:GLY:CA	5:CE:66:MET:HG2	2.32	0.57
15:CO:82:ILE:HG13	15:CO:88:ARG:HG3	1.86	0.57
24:D2:33:MET:CG	49:DX:11:PRO:HD2	2.34	0.57
25:D3:28:LEU:HA	25:D3:33:GLN:OE1	2.03	0.57
31:DA:189:G:H2'	31:DA:205:G:N2	2.18	0.57
31:DA:635:C:O2'	31:DA:639:U:OP1	2.21	0.57
31:DA:796:C:H2'	31:DA:797:C:H6	1.62	0.57
31:DA:1866:C:H2'	31:DA:1876:A:O4'	2.04	0.57
33:DD:83:GLU:HB2	33:DD:92:ILE:CD1	2.34	0.57
36:DG:47:LYS:HE2	36:DG:81:LYS:HB2	1.86	0.57
47:DV:36:PRO:CD	47:DV:60:GLU:O	2.52	0.57
1:AA:163:C:H2'	1:AA:164:U:C6	2.39	0.57
1:AA:287:U:O2'	1:AA:288:A:H5'	2.04	0.57
1:AA:833:U:H2'	1:AA:834:C:H6	1.67	0.57
4:AD:128:VAL:O	4:AD:130:GLY:N	2.37	0.57
8:AH:51:VAL:HG21	8:AH:60:ARG:HG2	1.85	0.57
9:AI:7:THR:O	9:AI:79:LEU:HD12	2.05	0.57
22:B0:8:GLY:HA2	42:BQ:83:MET:HG2	1.84	0.57
23:B1:87:PRO:HB2	23:B1:91:LYS:HZ2	1.68	0.57
30:B8:31:HIS:O	30:B8:32:LEU:C	2.46	0.57
31:BA:776:G:H4'	31:BA:777:A:O5'	2.04	0.57
31:BA:1559:G:N3	31:BA:1559:G:H5'	2.19	0.57
31:BA:2849:U:O4	45:BT:23:ARG:NH2	2.37	0.57
37:BH:144:VAL:O	37:BH:148:ILE:HG12	2.03	0.57
37:BH:158:HIS:CE1	37:BH:170:ARG:N	2.72	0.57
42:BQ:39:PRO:HA	42:BQ:97:VAL:O	2.04	0.57
44:BS:18:ILE:HG22	44:BS:19:LYS:N	2.20	0.57
49:BX:30:VAL:HG23	49:BX:76:ARG:HA	1.87	0.57
50:BY:77:PRO:O	50:BY:99:CYS:SG	2.60	0.57
1:CA:1113:C:H2'	1:CA:1114:C:C6	2.40	0.57
1:CA:1372:U:OP1	9:CI:72:GLY:N	2.37	0.57
4:CD:100:ARG:NH1	4:CD:137:SER:HA	2.19	0.57
5:CE:15:ARG:HD2	5:CE:26:PHE:CD2	2.38	0.57
6:CF:75:LEU:HD21	6:CF:79:LEU:HD11	1.85	0.57
6:CF:86:ARG:O	6:CF:87:ARG:HG2	2.03	0.57
6:CF:91:VAL:HG12	6:CF:92:LYS:O	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:38:THR:HG21	12:CL:65:GLU:OE2	2.04	0.57
13:CM:75:ALA:O	13:CM:79:LYS:HG3	2.03	0.57
24:D2:54:LYS:H	24:D2:56:GLN:NE2	2.02	0.57
31:DA:832:G:OP1	41:DP:40:SER:HB3	2.05	0.57
31:DA:1472:A:H2'	31:DA:1473:G:H8	1.68	0.57
31:DA:2069:G:C2'	31:DA:2070:G:H5'	2.34	0.57
31:DA:2469:A:O2'	42:DQ:56:ARG:HG2	2.04	0.57
31:DA:2494:G:H2'	31:DA:2495:G:O5'	2.04	0.57
33:DD:71:ASP:HB3	33:DD:103:ARG:NH2	2.20	0.57
33:DD:222:ARG:O	33:DD:225:ALA:HB3	2.03	0.57
33:DD:231:HIS:CG	33:DD:232:PRO:HD2	2.40	0.57
36:DG:105:LYS:HB2	36:DG:105:LYS:NZ	2.20	0.57
39:DN:14:VAL:CA	39:DN:135:PRO:HD2	2.35	0.57
40:DO:61:VAL:O	40:DO:61:VAL:HG13	2.03	0.57
45:DT:58:ASN:HD22	45:DT:58:ASN:C	2.13	0.57
46:DU:88:ILE:O	46:DU:90:VAL:N	2.37	0.57
49:DX:35:THR:HB	49:DX:75:ASP:OD2	2.04	0.57
1:AA:270:A:C5	1:AA:271:C:C4	2.92	0.57
1:AA:620:C:C2	4:AD:135:LEU:HG	2.39	0.57
1:AA:1113:C:H2'	1:AA:1114:C:C6	2.39	0.57
3:AC:32:LEU:HD22	3:AC:59:ARG:NH1	2.19	0.57
4:AD:133:VAL:HG11	4:AD:138:TYR:HD1	1.69	0.57
13:AM:106:ASN:O	13:AM:107:ALA:HB3	2.04	0.57
16:AP:20:VAL:HG22	16:AP:21:VAL:N	2.19	0.57
16:AP:43:LYS:HG2	16:AP:48:TRP:CD2	2.39	0.57
17:AQ:76:LEU:HD12	17:AQ:77:VAL:H	1.70	0.57
30:B8:25:MET:CG	41:BP:64:LYS:HB3	2.27	0.57
31:BA:8:A:H2'	31:BA:9:U:C6	2.39	0.57
31:BA:861:A:H2'	31:BA:862:G:O4'	2.05	0.57
31:BA:945:A:C8	31:BA:945:A:O2'	2.53	0.57
31:BA:1427:A:H4'	31:BA:1428:C:O5'	2.02	0.57
31:BA:2761:G:C2'	31:BA:2762:G:H5"	2.33	0.57
44:BS:89:ARG:HE	44:BS:89:ARG:CA	2.16	0.57
49:BX:41:ASN:O	49:BX:45:THR:HG23	2.03	0.57
49:BX:82:GLN:HG3	49:BX:83:VAL:N	2.20	0.57
1:CA:89:C:OP1	1:CA:90:U:C4	2.57	0.57
1:CA:456:C:N4	1:CA:475:G:H1	2.01	0.57
1:CA:1158:C:N4	1:CA:1181:G:H22	2.03	0.57
6:CF:11:ASN:O	6:CF:14:LEU:HB2	2.05	0.57
9:CI:10:ARG:HG2	9:CI:104:ARG:O	2.05	0.57
9:CI:77:ILE:O	9:CI:81:ILE:HG12	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:3:LYS:HD2	10:CJ:77:PRO:CD	2.35	0.57
10:CJ:6:ILE:HG13	10:CJ:72:VAL:O	2.04	0.57
10:CJ:9:ARG:HH21	10:CJ:95:GLU:HG2	1.69	0.57
12:CL:24:VAL:O	12:CL:24:VAL:HG12	2.03	0.57
18:CR:32:ARG:HA	18:CR:69:THR:HG21	1.86	0.57
31:DA:348:G:H2'	31:DA:349:G:C5'	2.26	0.57
31:DA:1278:A:O3'	43:DR:34:ILE:HD11	2.03	0.57
31:DA:1531:C:H5"	31:DA:1532:C:H6	1.69	0.57
31:DA:2660:A:H5'	31:DA:2661:G:N2	2.18	0.57
31:DA:2761:G:C3'	31:DA:2762:G:H5"	2.33	0.57
33:DD:27:THR:O	33:DD:29:PRO:HD2	2.04	0.57
33:DD:221:VAL:CG2	33:DD:226:MET:HE2	2.33	0.57
35:DF:184:TYR:CD2	35:DF:188:ARG:HD2	2.39	0.57
36:DG:108:ASN:O	36:DG:112:PRO:HG2	2.05	0.57
37:DH:47:GLU:C	37:DH:49:VAL:H	2.12	0.57
43:DR:9:LYS:O	43:DR:10:LEU:HD23	2.05	0.57
47:DV:69:LYS:HB2	47:DV:93:GLU:CD	2.29	0.57
50:DY:77:PRO:O	50:DY:78:ALA:HB2	2.04	0.57
50:DY:83:THR:HG23	50:DY:94:LYS:HB3	1.87	0.57
1:AA:330:C:H2'	1:AA:331:G:H5'	1.85	0.57
1:AA:687:A:N3	1:AA:688:G:H1'	2.18	0.57
1:AA:936:C:H2'	1:AA:937:A:O4'	2.05	0.57
4:AD:94:LEU:HA	4:AD:97:LEU:HB2	1.86	0.57
5:AE:33:VAL:HG12	5:AE:34:VAL:N	2.20	0.57
10:AJ:6:ILE:HG13	10:AJ:72:VAL:O	2.04	0.57
11:AK:105:VAL:O	11:AK:105:VAL:HG23	2.05	0.57
12:AL:86:ARG:HB2	12:AL:101:VAL:HG22	1.86	0.57
16:AP:21:VAL:HG23	16:AP:33:ILE:HB	1.86	0.57
20:AT:10:LEU:O	20:AT:12:ALA:N	2.36	0.57
27:B5:11:THR:HG21	31:BA:1264:G:H5'	1.86	0.57
31:BA:7:G:H1	31:BA:2896:C:H42	1.50	0.57
31:BA:2094:G:P	38:BI:22:LYS:HD3	2.45	0.57
31:BA:2859:G:C8	31:BA:2859:G:C3'	2.87	0.57
32:BB:40:U:H1'	32:BB:45:A:H61	1.70	0.57
32:BB:52:A:O2'	32:BB:53:A:H8	1.86	0.57
33:BD:28:GLU:HB2	33:BD:29:PRO:CD	2.34	0.57
33:BD:106:ILE:O	33:BD:106:ILE:HD13	2.05	0.57
33:BD:108:PRO:HD2	33:BD:111:LEU:HG	1.85	0.57
33:BD:266:SER:O	33:BD:267:SER:CB	2.52	0.57
39:BN:63:THR:O	39:BN:64:GLY:O	2.23	0.57
45:BT:65:LYS:HG3	45:BT:66:VAL:N	2.20	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BU:83:LEU:CG	46:BU:88:ILE:HG12	2.35	0.57
1:CA:501:C:H2'	1:CA:502:G:H8	1.69	0.57
1:CA:537:G:H2'	1:CA:538:G:H8	1.69	0.57
1:CA:561:U:O2'	1:CA:562:C:OP1	2.22	0.57
1:CA:936:C:H2'	1:CA:937:A:O4'	2.05	0.57
2:CB:61:LEU:HD21	2:CB:68:ILE:HD11	1.85	0.57
9:CI:116:LYS:O	9:CI:118:LYS:N	2.36	0.57
10:CJ:48:THR:HA	10:CJ:62:HIS:HB3	1.85	0.57
17:CQ:13:ASP:H	17:CQ:14:LYS:NZ	2.01	0.57
22:D0:14:ARG:HD2	31:DA:2279:G:O6	2.04	0.57
28:D6:20:ASN:OD1	28:D6:21:TYR:O	2.23	0.57
30:D8:14:VAL:HG13	30:D8:22:VAL:HG13	1.86	0.57
31:DA:13:A:N1	31:DA:525:U:H2'	2.18	0.57
31:DA:1332:G:N2	31:DA:1610:A:H8	2.02	0.57
31:DA:2199:A:C5'	31:DA:2200:C:OP2	2.52	0.57
35:DF:202:PHE:C	35:DF:204:ASN:H	2.11	0.57
37:DH:105:LEU:H	37:DH:105:LEU:HD22	1.69	0.57
37:DH:153:LYS:HB2	37:DH:154:PRO:HD3	1.86	0.57
39:DN:40:PRO:CA	46:DU:64:ARG:NH2	2.67	0.57
41:DP:16:ARG:HH11	41:DP:16:ARG:C	2.10	0.57
41:DP:45:LEU:HD22	41:DP:46:LYS:H	1.69	0.57
44:DS:31:SER:HB3	44:DS:34:HIS:H	1.70	0.57
51:DZ:103:ARG:HD3	51:DZ:136:PHE:CE1	2.39	0.57
1:AA:343:U:H2'	1:AA:346:G:O6	2.05	0.57
1:AA:393:A:C2	1:AA:394:G:C8	2.92	0.57
1:AA:1065:U:C1'	1:AA:1066:C:OP2	2.52	0.57
1:AA:1074:G:C4	1:AA:1102:A:C2	2.93	0.57
6:AF:22:GLU:O	6:AF:26:ILE:HG13	2.04	0.57
13:AM:32:GLU:OE2	13:AM:64:TRP:HH2	1.88	0.57
28:B6:28:ARG:HA	28:B6:32:ASN:HB3	1.87	0.57
30:B8:39:LYS:C	30:B8:39:LYS:CD	2.77	0.57
31:BA:626:U:H3	41:BP:105:LEU:HG	1.68	0.57
31:BA:1496:A:C8	31:BA:1577:C:O2'	2.57	0.57
31:BA:1508:A:O2'	31:BA:1509:C:OP1	2.22	0.57
31:BA:2701:C:C3'	31:BA:2702:U:C5'	2.69	0.57
33:BD:80:ALA:HB2	33:BD:96:HIS:CG	2.39	0.57
36:BG:60:LEU:C	36:BG:60:LEU:HD13	2.30	0.57
36:BG:111:LEU:HA	36:BG:114:ILE:HG12	1.87	0.57
40:BO:107:ARG:NH1	45:BT:35:LYS:CB	2.63	0.57
45:BT:61:PHE:CE2	45:BT:76:PHE:HB2	2.39	0.57
51:BZ:124:ILE:HG13	51:BZ:125:LEU:N	2.17	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:863:U:H2'	1:CA:865:A:OP2	2.04	0.57
1:CA:1422:G:H5"	40:DO:48:PRO:HB3	1.87	0.57
1:CA:1441:G:H5"	1:CA:1442:G:H5'	1.86	0.57
2:CB:130:ARG:HE	2:CB:130:ARG:HA	1.68	0.57
6:CF:76:ALA:HB1	6:CF:80:ARG:HH21	1.68	0.57
13:CM:32:GLU:OE2	13:CM:64:TRP:CH2	2.58	0.57
16:CP:3:LYS:O	16:CP:21:VAL:HA	2.04	0.57
18:CR:58:LEU:HD23	18:CR:62:GLU:HB3	1.85	0.57
18:CR:81:PHE:O	18:CR:82:THR:HB	2.05	0.57
31:DA:92:A:H2'	31:DA:93:G:C8	2.39	0.57
31:DA:867:C:C5	31:DA:868:U:H5	2.22	0.57
31:DA:942:G:O2'	31:DA:943:U:H5'	2.04	0.57
31:DA:2729:G:H2'	31:DA:2730:C:C6	2.40	0.57
31:DA:2850:A:H5'	31:DA:2868:A:C2	2.40	0.57
33:DD:35:LYS:HE2	33:DD:65:ILE:HG22	1.87	0.57
33:DD:77:ALA:HB2	33:DD:97:TYR:CG	2.39	0.57
35:DF:84:VAL:C	35:DF:86:GLY:N	2.58	0.57
35:DF:144:LYS:C	35:DF:146:ALA:H	2.13	0.57
35:DF:184:TYR:O	35:DF:188:ARG:HG3	2.05	0.57
35:DF:198:ALA:O	35:DF:201:VAL:HG12	2.05	0.57
37:DH:89:ILE:O	37:DH:90:LYS:CB	2.53	0.57
43:DR:44:LEU:O	43:DR:45:ARG:C	2.47	0.57
44:DS:29:PHE:N	44:DS:89:ARG:CD	2.61	0.57
45:DT:101:PHE:HE2	45:DT:113:LYS:HD2	1.70	0.57
49:DX:60:ARG:HE	49:DX:74:PRO:HG3	1.70	0.57
50:DY:35:TYR:CE2	50:DY:69:ALA:HB3	2.39	0.57
1:AA:651:C:H2'	1:AA:652:U:C6	2.40	0.57
1:AA:939:G:H2'	1:AA:940:C:C6	2.39	0.57
1:AA:1070:U:C2	1:AA:1071:C:C5	2.93	0.57
1:AA:1203:C:H2'	1:AA:1204:A:C8	2.40	0.57
2:AB:97:TRP:HH2	2:AB:176:GLU:CD	2.13	0.57
4:AD:108:LEU:CD1	4:AD:174:LEU:HD13	2.35	0.57
6:AF:46:ARG:HH12	18:AR:37:VAL:HG21	1.69	0.57
9:AI:103:THR:HG22	9:AI:105:ASP:H	1.68	0.57
10:AJ:48:THR:HA	10:AJ:62:HIS:HB3	1.87	0.57
13:AM:24:GLY:C	13:AM:25:ILE:HD12	2.29	0.57
18:AR:50:ILE:HD11	18:AR:70:ILE:HG21	1.85	0.57
18:AR:81:PHE:O	18:AR:82:THR:HB	2.05	0.57
23:B1:89:GLU:O	23:B1:93:GLU:N	2.37	0.57
31:BA:32:C:O2'	31:BA:33:U:H5'	2.05	0.57
31:BA:2327:A:H2'	31:BA:2328:A:C8	2.39	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:27:THR:O	33:BD:29:PRO:HD2	2.04	0.57
33:BD:30:GLU:CG	33:BD:63:ARG:NE	2.66	0.57
33:BD:118:VAL:CG2	33:BD:119:ALA:N	2.67	0.57
34:BE:67:PHE:C	34:BE:69:LYS:N	2.60	0.57
35:BF:57:VAL:CG1	35:BF:59:TYR:HD1	2.18	0.57
35:BF:103:LYS:HA	35:BF:106:ARG:HG3	1.85	0.57
36:BG:40:ASN:HD22	36:BG:91:ARG:HB2	1.70	0.57
38:BI:6:LEU:O	38:BI:15:VAL:HB	2.05	0.57
43:BR:4:LEU:O	43:BR:5:LYS:HD2	2.05	0.57
1:CA:114:U:H2'	1:CA:115:G:C8	2.40	0.57
1:CA:343:U:H2'	1:CA:346:G:O6	2.04	0.57
1:CA:646:U:H2'	1:CA:647:C:H6	1.70	0.57
1:CA:939:G:H2'	1:CA:940:C:C6	2.40	0.57
1:CA:1001(A):G:H2'	1:CA:1002:G:O4'	2.04	0.57
1:CA:1070:U:C2	1:CA:1071:C:C5	2.93	0.57
2:CB:79:ASP:C	2:CB:81:VAL:H	2.12	0.57
4:CD:33:MET:HA	4:CD:33:MET:HE3	1.87	0.57
5:CE:136:MET:O	5:CE:139:LEU:N	2.38	0.57
13:CM:54:VAL:HG22	13:CM:57:ARG:HH21	1.70	0.57
15:CO:74:ASP:OD2	15:CO:76:GLU:HB3	2.05	0.57
16:CP:45:THR:C	16:CP:47:ASP:H	2.13	0.57
27:D5:32:PRO:HD2	31:DA:2886:G:O2'	2.04	0.57
28:D6:26:ASN:OD1	28:D6:35:GLU:HG2	2.03	0.57
31:DA:34:C:O2'	31:DA:35:G:OP1	2.20	0.57
31:DA:542:C:C2'	31:DA:543:C:OP1	2.52	0.57
31:DA:708:C:H2'	31:DA:708:C:O2	2.03	0.57
31:DA:1047:G:N2	31:DA:1111:A:H62	2.01	0.57
31:DA:2759:G:H8	31:DA:2759:G:C5'	2.03	0.57
33:DD:49:ILE:HD13	33:DD:49:ILE:C	2.30	0.57
34:DE:24:THR:HG21	34:DE:188:VAL:HG12	1.86	0.57
42:DQ:39:PRO:HA	42:DQ:97:VAL:O	2.04	0.57
44:DS:38:GLN:CG	44:DS:47:THR:HG21	2.34	0.57
45:DT:61:PHE:CZ	45:DT:85:LYS:HE2	2.40	0.57
50:DY:17:SER:CA	50:DY:71:LYS:HD2	2.30	0.57
1:AA:357:G:O2'	1:AA:358:U:H5'	2.05	0.57
2:AB:8:LYS:HZ3	2:AB:217:ARG:HH11	1.53	0.57
2:AB:67:THR:O	2:AB:68:ILE:HD12	2.04	0.57
2:AB:163:PHE:HD2	2:AB:185:ILE:CG1	2.17	0.57
3:AC:91:LEU:HB3	3:AC:99:VAL:HG21	1.87	0.57
10:AJ:9:ARG:HH21	10:AJ:95:GLU:HG2	1.68	0.57
15:AO:82:ILE:HD13	15:AO:82:ILE:C	2.30	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:3:LYS:HD2	17:AQ:60:ILE:HD11	1.85	0.57
17:AQ:63:ARG:HG2	17:AQ:64:PRO:HD2	1.87	0.57
19:AS:6:LYS:HG2	19:AS:7:LYS:CD	2.35	0.57
19:AS:10:PHE:HE2	19:AS:37:ARG:O	1.87	0.57
23:B1:16:ASN:HB3	23:B1:46:LEU:CG	2.35	0.57
24:B2:26:ARG:NE	24:B2:29:LYS:HE2	2.20	0.57
27:B5:52:TYR:HD2	27:B5:52:TYR:H	1.50	0.57
30:B8:32:LEU:HD23	30:B8:35:GLN:HA	1.87	0.57
31:BA:271(M):G:N7	31:BA:271(O):C:N4	2.52	0.57
31:BA:588:U:OP2	31:BA:588:U:H6	1.87	0.57
31:BA:729:G:C5	33:BD:208:LYS:HB2	2.40	0.57
31:BA:1478:G:O2'	31:BA:1479:G:H5'	2.05	0.57
31:BA:1657:C:H5"	34:BE:133:LYS:O	2.03	0.57
33:BD:211:ARG:O	33:BD:215:LEU:HG	2.05	0.57
39:BN:128:HIS:HD2	39:BN:131:GLN:HB2	1.64	0.57
41:BP:16:ARG:CD	41:BP:18:ARG:HB2	2.35	0.57
41:BP:16:ARG:NE	41:BP:18:ARG:HB2	2.19	0.57
44:BS:24:LEU:HB3	44:BS:85:VAL:HG13	1.86	0.57
47:BV:18:LEU:HD12	47:BV:98:GLU:OE1	2.05	0.57
1:CA:373:A:N3	1:CA:374:A:C8	2.73	0.57
7:CG:15:ASP:HB3	7:CG:19:GLY:N	2.20	0.57
8:CH:1:MET:HE2	8:CH:1:MET:N	2.11	0.57
8:CH:77:GLU:HG3	8:CH:78:GLN:N	2.20	0.57
13:CM:15:VAL:O	13:CM:19:LEU:HD23	2.05	0.57
20:CT:97:ALA:O	20:CT:99:LEU:N	2.31	0.57
22:D0:43:THR:N	31:DA:2331:G:H4'	2.16	0.57
31:DA:146:G:H8	31:DA:146:G:C5'	2.17	0.57
31:DA:322:A:H5'	31:DA:340:A:C1'	2.34	0.57
31:DA:588:U:OP2	31:DA:588:U:C6	2.57	0.57
31:DA:1140:C:O3'	39:DN:25:ARG:NH1	2.38	0.57
32:DB:94:C:C2	32:DB:95:C:C5	2.92	0.57
37:DH:41:MET:HG3	37:DH:54:ARG:HA	1.85	0.57
39:DN:56:ASN:H	39:DN:125:GLY:H	1.45	0.57
41:DP:140:ALA:O	41:DP:141:ALA:CB	2.52	0.57
42:DQ:63:LYS:HB2	42:DQ:63:LYS:NZ	2.19	0.57
45:DT:28:VAL:O	45:DT:29:ARG:CD	2.53	0.57
47:DV:2:PHE:HB3	47:DV:42:GLY:HA2	1.87	0.57
48:DW:5:ALA:C	48:DW:6:ILE:HG13	2.28	0.57
50:DY:88:LYS:HZ1	50:DY:93:GLY:HA3	1.70	0.57
50:DY:88:LYS:O	50:DY:89:PHE:HB2	2.04	0.57
1:AA:338:A:O2'	1:AA:339:C:H5'	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:713:G:N2	1:AA:714:G:C2	2.73	0.57
1:AA:775:G:O2'	1:AA:776:G:H5'	2.05	0.57
1:AA:1189:C:O3'	3:AC:5:ILE:HD12	2.04	0.57
9:AI:10:ARG:HG2	9:AI:104:ARG:O	2.05	0.57
9:AI:97:LYS:HB3	9:AI:98:PRO:HD3	1.86	0.57
10:AJ:49:VAL:HG13	14:AN:41:ARG:HB2	1.86	0.57
19:AS:42:PRO:O	19:AS:43:GLU:HB3	2.04	0.57
31:BA:340:A:H2'	31:BA:341:G:H5'	1.87	0.57
31:BA:2473:U:C4	31:BA:2474:C:C5	2.92	0.57
36:BG:19:LEU:HD13	36:BG:32:PRO:HG2	1.87	0.57
41:BP:85:LEU:HB3	41:BP:114:ILE:HD13	1.86	0.57
41:BP:122:PRO:HD3	25:D3:1:MET:HE3	1.86	0.57
46:BU:91:ASP:C	46:BU:92:ARG:O	2.48	0.57
47:BV:73:SER:OG	47:BV:75:PHE:CE1	2.55	0.57
47:BV:80:GLN:OE1	47:BV:80:GLN:O	2.23	0.57
49:BX:60:ARG:HE	49:BX:74:PRO:CG	2.17	0.57
50:BY:14:LEU:HD11	50:BY:22:GLY:HA2	1.85	0.57
1:CA:25:C:H2'	1:CA:26:A:C8	2.40	0.57
1:CA:32:A:H2'	1:CA:33:A:C8	2.39	0.57
1:CA:330:C:H2'	1:CA:331:G:H5'	1.87	0.57
1:CA:1325:C:H4'	21:CU:17:THR:HG21	1.86	0.57
1:CA:1355:G:H2'	1:CA:1356:G:H8	1.69	0.57
2:CB:68:ILE:HG22	2:CB:70:PHE:CE1	2.40	0.57
4:CD:91:SER:HA	4:CD:94:LEU:HD12	1.85	0.57
8:CH:20:TYR:HA	8:CH:65:TYR:CE2	2.40	0.57
8:CH:28:ALA:HB3	8:CH:57:PRO:O	2.05	0.57
10:CJ:49:VAL:HG22	14:CN:41:ARG:HB2	1.87	0.57
20:CT:89:ARG:HB2	20:CT:104:LEU:CD1	2.31	0.57
23:D1:64:ALA:O	23:D1:65:SER:CB	2.53	0.57
24:D2:32:LEU:O	24:D2:33:MET:C	2.47	0.57
28:D6:19:ARG:HG3	28:D6:20:ASN:H	1.68	0.57
31:DA:531:C:H4'	31:DA:532:A:H5"	1.87	0.57
31:DA:873:G:H1	31:DA:904:C:H42	1.52	0.57
31:DA:1353:A:H5"	33:DD:38:LYS:NZ	2.20	0.57
31:DA:2314:C:C2	31:DA:2315:G:C8	2.93	0.57
39:DN:128:HIS:O	39:DN:130:HIS:N	2.38	0.57
44:DS:89:ARG:HE	44:DS:89:ARG:CA	2.14	0.57
45:DT:31:SER:C	45:DT:32:TYR:CD2	2.82	0.57
47:DV:19:LYS:HG3	47:DV:20:LEU:C	2.30	0.57
2:AB:36:ARG:H	2:AB:41:ILE:HD13	1.70	0.57
3:AC:34:LEU:O	3:AC:38:ARG:HG2	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:18:PHE:HB3	9:AI:20:ARG:NH1	2.20	0.57
10:AJ:4:ILE:HG12	10:AJ:100:THR:CG2	2.35	0.57
23:B1:26:ARG:CD	23:B1:34:THR:HB	2.35	0.57
31:BA:92:A:HO2'	31:BA:93:G:H5'	1.69	0.57
31:BA:175:G:H8	31:BA:175:G:H5'	1.69	0.57
31:BA:271(E):U:H2'	31:BA:271(F):C:C6	2.40	0.57
31:BA:518:G:H4'	48:BW:18:ARG:CZ	2.33	0.57
31:BA:1040:C:O2'	31:BA:1041:C:P	2.63	0.57
31:BA:1887:C:C3'	31:BA:1888:G:H5'	2.34	0.57
31:BA:1963:U:H4'	31:BA:1964:G:OP1	2.05	0.57
33:BD:197:GLY:O	33:BD:198:ASN:HB3	2.05	0.57
35:BF:202:PHE:C	35:BF:204:ASN:H	2.13	0.57
36:BG:45:GLU:HB2	36:BG:47:LYS:HG3	1.86	0.57
37:BH:149:ARG:HA	37:BH:162:ILE:HG13	1.87	0.57
41:BP:97:PRO:HD3	41:BP:126:VAL:O	2.05	0.57
41:BP:108:LYS:C	41:BP:110:TYR:N	2.62	0.57
43:BR:46:GLY:HA2	43:BR:49:ASP:HB2	1.87	0.57
45:BT:33:LYS:N	45:BT:33:LYS:HZ3	2.02	0.57
45:BT:56:GLY:C	45:BT:57:PHE:O	2.44	0.57
46:BU:28:ARG:HG2	46:BU:38:THR:OG1	2.04	0.57
46:BU:57:PHE:O	46:BU:58:ARG:C	2.48	0.57
1:CA:510:A:H5"	1:CA:511:C:P	2.45	0.57
5:CE:80:ILE:HD11	5:CE:91:LEU:HD23	1.87	0.57
31:DA:65:C:H2'	31:DA:66:C:H6	1.67	0.57
31:DA:68:G:C2'	31:DA:69:C:O5'	2.53	0.57
31:DA:340:A:H2'	31:DA:341:G:H5'	1.87	0.57
31:DA:2208:A:O2'	31:DA:2219:G:C8	2.56	0.57
31:DA:2272:U:H5"	31:DA:2273:A:OP1	2.05	0.57
31:DA:2753:A:C2	31:DA:2754:U:C2	2.92	0.57
31:DA:2834:G:H5"	31:DA:2834:G:H8	1.68	0.57
33:DD:35:LYS:CG	33:DD:64:ILE:H	2.14	0.57
34:DE:75:VAL:O	34:DE:77:ILE:N	2.37	0.57
36:DG:135:LEU:HD23	36:DG:140:ILE:HD11	1.86	0.57
40:DO:47:ILE:HG23	40:DO:48:PRO:HD2	1.87	0.57
42:DQ:141:GLN:HG3	51:DZ:72:ARG:HD3	1.87	0.57
42:DQ:141:GLN:N	51:DZ:53:ILE:HB	2.19	0.57
47:DV:25:LEU:N	47:DV:94:LEU:CD1	2.66	0.57
51:DZ:119:GLU:C	51:DZ:121:HIS:H	2.12	0.57
1:AA:200:G:H1	1:AA:217:C:H42	1.51	0.56
1:AA:542:G:O2'	1:AA:543:C:H5'	2.04	0.56
1:AA:586:C:H2'	1:AA:587:G:H5'	1.86	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:658:G:C4	1:AA:659:U:C5	2.93	0.56
1:AA:991:U:O2'	1:AA:992:U:OP2	2.20	0.56
1:AA:1497:G:C2'	1:AA:1498:U:H5'	2.34	0.56
5:AE:145:LYS:O	5:AE:149:GLU:HG2	2.05	0.56
8:AH:26:VAL:HG22	8:AH:27:PRO:O	2.05	0.56
23:B1:10:LYS:HB2	23:B1:14:VAL:CA	2.34	0.56
31:BA:827:U:O2'	31:BA:2068:U:C2	2.45	0.56
31:BA:1472:A:H2'	31:BA:1473:G:H8	1.70	0.56
31:BA:1625:C:H2'	31:BA:1626:G:H5'	1.87	0.56
31:BA:2464:C:O2'	31:BA:2465:C:P	2.63	0.56
31:BA:2590:A:H2'	31:BA:2591:C:H6	1.70	0.56
34:BE:66:HIS:O	34:BE:66:HIS:CG	2.58	0.56
34:BE:89:ASP:O	34:BE:90:THR:CB	2.53	0.56
36:BG:16:ARG:NH1	36:BG:31:VAL:HG11	2.20	0.56
36:BG:41:GLN:HG2	36:BG:155:MET:HB3	1.87	0.56
41:BP:92:GLU:HA	41:BP:123:LEU:HD13	1.86	0.56
42:BQ:66:ILE:O	42:BQ:66:ILE:HG13	2.05	0.56
42:BQ:141:GLN:CG	51:BZ:72:ARG:HH11	2.17	0.56
44:BS:33:LYS:HB3	44:BS:34:HIS:HD2	1.69	0.56
45:BT:13:ARG:HH21	45:BT:15:VAL:HG11	1.70	0.56
45:BT:50:ILE:HA	45:BT:99:LEU:HD11	1.86	0.56
48:BW:2:GLU:OE1	48:BW:72:LYS:NZ	2.37	0.56
50:BY:96:ILE:HG22	50:BY:97:ARG:N	2.20	0.56
1:CA:922:G:H2'	1:CA:923:A:C8	2.40	0.56
1:CA:1030(A):G:H1'	1:CA:1031:G:H22	1.69	0.56
3:CC:34:LEU:O	3:CC:38:ARG:HG2	2.04	0.56
3:CC:127:ARG:HD2	3:CC:127:ARG:N	2.20	0.56
4:CD:13:ARG:O	4:CD:15:GLU:N	2.38	0.56
6:CF:22:GLU:O	6:CF:26:ILE:HG13	2.05	0.56
15:CO:17:ARG:HD3	15:CO:26:GLU:HG3	1.87	0.56
26:D4:19:GLY:C	26:D4:21:VAL:N	2.62	0.56
27:D5:2:ALA:N	31:DA:747:U:N3	2.53	0.56
28:D6:46:HIS:CA	28:D6:47:THR:N	2.68	0.56
31:DA:11:G:O2'	31:DA:12:U:H5'	2.05	0.56
31:DA:737:C:H2'	31:DA:738:G:O5'	2.04	0.56
31:DA:958:U:O2'	31:DA:959:A:P	2.62	0.56
31:DA:1110:G:OP1	31:DA:1110:G:H4'	2.05	0.56
31:DA:1141:U:O5'	39:DN:63:THR:HG21	2.05	0.56
31:DA:1501:C:O2'	31:DA:1502:C:H5'	2.05	0.56
33:DD:28:GLU:HB2	33:DD:29:PRO:CD	2.34	0.56
36:DG:19:LEU:HG	36:DG:175:LEU:CD1	2.34	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DG:40:ASN:HD22	36:DG:91:ARG:HB2	1.70	0.56
40:DO:107:ARG:NH1	45:DT:35:LYS:CB	2.64	0.56
42:DQ:30:GLY:HA2	42:DQ:107:ALA:HB2	1.87	0.56
42:DQ:116:GLU:O	42:DQ:120:ILE:HG12	2.04	0.56
45:DT:53:ARG:HH11	45:DT:53:ARG:HG3	1.70	0.56
1:AA:192:U:H2'	1:AA:193:C:H6	1.69	0.56
1:AA:430:A:O2'	1:AA:431:A:H5'	2.06	0.56
1:AA:1104:G:OP1	2:AB:111:ARG:HD2	2.05	0.56
1:AA:1407:C:O5'	1:AA:1407:C:H6	1.88	0.56
5:AE:42:GLY:CA	5:AE:66:MET:HG2	2.34	0.56
16:AP:28:ARG:NH1	16:AP:29:ASP:OD2	2.38	0.56
24:B2:47:ASN:HD22	24:B2:47:ASN:N	2.03	0.56
28:B6:42:TRP:HA	28:B6:42:TRP:CE3	2.41	0.56
30:B8:30:ARG:O	30:B8:31:HIS:O	2.23	0.56
31:BA:547:A:H8	31:BA:549:G:C6	2.23	0.56
31:BA:1510:G:O2'	31:BA:1511:C:H5'	2.04	0.56
31:BA:1512:U:O2'	31:BA:1513:C:H5'	2.05	0.56
31:BA:1600:C:O2'	31:BA:1601:G:H5'	2.05	0.56
31:BA:2464:C:O2'	31:BA:2465:C:C5'	2.52	0.56
33:BD:175:LEU:HD12	33:BD:185:VAL:HG21	1.86	0.56
35:BF:63:LYS:CE	35:BF:67:GLN:HB2	2.35	0.56
35:BF:132:VAL:C	35:BF:134:GLY:H	2.13	0.56
37:BH:85:LYS:NZ	37:BH:145:ALA:HA	2.19	0.56
39:BN:27:ALA:CB	39:BN:106:MET:CE	2.83	0.56
41:BP:96:THR:O	41:BP:100:LEU:HB2	2.04	0.56
47:BV:16:PRO:O	47:BV:98:GLU:OE2	2.23	0.56
1:CA:624:C:H2'	1:CA:625:G:C8	2.40	0.56
1:CA:629:G:H2'	1:CA:630:G:O4'	2.05	0.56
1:CA:748:C:H4'	1:CA:749:C:O5'	2.05	0.56
1:CA:781:A:H2'	1:CA:782:A:H5'	1.87	0.56
1:CA:1003:G:C2	1:CA:1004:A:H1'	2.40	0.56
1:CA:1227:A:OP2	13:CM:111:LYS:HE2	2.05	0.56
8:CH:86:ILE:HG21	8:CH:133:LEU:HD13	1.87	0.56
10:CJ:7:LYS:O	10:CJ:96:ILE:HA	2.05	0.56
10:CJ:47:PHE:CE2	14:CN:37:PHE:HE2	2.23	0.56
16:CP:17:TYR:HE1	16:CP:41:PRO:HG3	1.69	0.56
19:CS:29:ARG:HB3	19:CS:47:HIS:HA	1.88	0.56
28:D6:42:TRP:CE3	28:D6:42:TRP:HA	2.40	0.56
31:DA:515:A:H1'	31:DA:581:C:H1'	1.86	0.56
31:DA:528:A:H2	31:DA:2043:C:H5'	1.69	0.56
31:DA:678:C:H2'	31:DA:679:C:C6	2.40	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:875:G:C4'	51:DZ:170:THR:HG21	2.24	0.56
31:DA:1495:A:C2	31:DA:1496:A:C2	2.93	0.56
38:DI:110:ASP:HB2	38:DI:113:ARG:HG2	1.87	0.56
39:DN:28:THR:HG22	39:DN:29:LYS:N	2.20	0.56
39:DN:47:ALA:HB2	39:DN:112:LEU:CD1	2.30	0.56
41:DP:26:GLY:HA2	41:DP:30:THR:HG21	1.88	0.56
43:DR:56:LYS:HE3	43:DR:94:TYR:OH	2.05	0.56
44:DS:53:SER:OG	44:DS:54:LEU:N	2.34	0.56
1:AA:90:U:O2'	1:AA:91:C:C5	2.55	0.56
1:AA:109:A:C6	1:AA:326:G:C6	2.94	0.56
1:AA:247:G:OP2	17:AQ:100:LYS:HG2	2.05	0.56
1:AA:299:G:C6	1:AA:300:A:C6	2.94	0.56
1:AA:1342:C:H1'	9:AI:124:GLN:NE2	2.20	0.56
3:AC:43:LEU:O	3:AC:47:LEU:HB3	2.06	0.56
3:AC:83:ARG:O	3:AC:86:VAL:HG22	2.05	0.56
4:AD:65:ARG:HG3	4:AD:75:PHE:CD1	2.40	0.56
5:AE:101:ILE:O	5:AE:120:THR:HG23	2.05	0.56
5:AE:139:LEU:HA	5:AE:142:LEU:CD1	2.35	0.56
13:AM:25:ILE:CD1	13:AM:66:LEU:HD23	2.35	0.56
13:AM:54:VAL:HG22	13:AM:57:ARG:HH21	1.68	0.56
15:AO:24:SER:O	15:AO:28:GLN:HG3	2.05	0.56
21:AU:9:ARG:O	21:AU:13:ILE:HG13	2.05	0.56
27:B5:29:THR:HG21	31:BA:2815:C:C5'	2.35	0.56
27:B5:33:CYS:SG	27:B5:49:CYS:HB3	2.44	0.56
28:B6:46:HIS:CA	28:B6:47:THR:N	2.68	0.56
30:B8:50:LEU:C	30:B8:52:LYS:H	2.13	0.56
31:BA:68:G:C2'	31:BA:69:C:O5'	2.54	0.56
31:BA:330:A:H2	31:BA:1210:A:C2'	2.11	0.56
31:BA:754:C:H2'	31:BA:755:C:H6	1.70	0.56
31:BA:1168:G:H2'	31:BA:1169:G:H5'	1.86	0.56
31:BA:2100:G:H1	31:BA:2189:U:H3	1.52	0.56
31:BA:2304:G:H22	31:BA:2312:U:H3	1.52	0.56
31:BA:2338:G:O2'	31:BA:2339:G:H5'	2.04	0.56
31:BA:2405:G:O2'	31:BA:2406:U:P	2.63	0.56
31:BA:2565:A:C5'	31:BA:2566:A:OP2	2.45	0.56
32:BB:40:U:H1'	32:BB:45:A:N6	2.21	0.56
32:BB:94:C:C2	32:BB:95:C:C5	2.94	0.56
33:BD:118:VAL:HG22	33:BD:119:ALA:H	1.68	0.56
34:BE:167:VAL:CG1	34:BE:189:PRO:HD3	2.36	0.56
35:BF:78:ILE:HA	35:BF:83:PHE:CD1	2.40	0.56
36:BG:108:ASN:O	36:BG:112:PRO:HG2	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:108:THR:O	38:BI:109:ILE:HG23	2.05	0.56
39:BN:1:MET:C	39:BN:2:LYS:HG3	2.29	0.56
39:BN:18:ALA:HB2	39:BN:26:LEU:HD13	1.87	0.56
39:BN:39:ARG:CG	39:BN:41:ASP:H	2.19	0.56
39:BN:90:MET:O	39:BN:93:THR:O	2.23	0.56
44:BS:19:LYS:O	44:BS:19:LYS:HG2	2.03	0.56
45:BT:28:VAL:HB	45:BT:88:ILE:HG13	1.88	0.56
46:BU:92:ARG:NH2	47:BV:10:LYS:HB3	2.20	0.56
47:BV:19:LYS:HG2	47:BV:96:ILE:CB	2.32	0.56
47:BV:72:VAL:HG13	47:BV:88:ARG:NH2	2.20	0.56
50:BY:45:VAL:CG1	50:BY:62:GLU:HB2	2.32	0.56
50:BY:88:LYS:HZ1	50:BY:93:GLY:HA3	1.70	0.56
51:BZ:104:PHE:HB3	51:BZ:141:VAL:HG11	1.87	0.56
1:CA:189(B):C:N4	1:CA:189(I):G:H1	2.02	0.56
1:CA:422:C:H1'	1:CA:423:G:N2	2.21	0.56
1:CA:432:A:C8	1:CA:433:C:C5	2.93	0.56
1:CA:472:A:O2'	16:CP:81:ARG:HA	2.06	0.56
1:CA:577:G:C2	1:CA:578:C:C5	2.93	0.56
1:CA:657:G:C2	1:CA:750:G:C5	2.93	0.56
1:CA:1157:A:H4'	1:CA:1158:C:O5'	2.05	0.56
2:CB:97:TRP:HH2	2:CB:176:GLU:CD	2.13	0.56
2:CB:163:PHE:HD2	2:CB:185:ILE:CG1	2.19	0.56
3:CC:32:LEU:HD22	3:CC:59:ARG:NH1	2.21	0.56
13:CM:66:LEU:HD12	13:CM:66:LEU:N	2.15	0.56
15:CO:23:GLY:O	15:CO:27:VAL:HB	2.05	0.56
18:CR:50:ILE:HD12	18:CR:70:ILE:HG21	1.85	0.56
23:D1:16:ASN:HB3	23:D1:46:LEU:HG	1.86	0.56
23:D1:32:LYS:HG2	31:DA:2396:G:O2'	2.04	0.56
23:D1:41:ARG:HH12	31:DA:189:G:P	2.27	0.56
24:D2:48:HIS:NE2	31:DA:75:G:H4'	2.20	0.56
28:D6:13:CYS:HA	28:D6:50:ARG:O	2.06	0.56
30:D8:26:LYS:HZ1	30:D8:47:LYS:CD	2.18	0.56
31:DA:128:C:C6	31:DA:128:C:H3'	2.41	0.56
31:DA:543:C:N4	31:DA:551:G:N1	2.53	0.56
31:DA:543:C:H42	31:DA:551:G:H1	1.53	0.56
31:DA:1505:C:H6	31:DA:1506:C:C6	2.23	0.56
31:DA:1558:A:H4'	31:DA:1559:G:O5'	2.04	0.56
31:DA:1568:G:H21	33:DD:58:HIS:HE1	1.51	0.56
31:DA:1887:C:C3'	31:DA:1888:G:H5'	2.34	0.56
31:DA:2100:G:H1	31:DA:2189:U:H3	1.53	0.56
31:DA:2286:A:H5"	31:DA:2287:A:O4'	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2552:U:H2'	31:DA:2554:U:OP2	2.05	0.56
31:DA:2662:A:H4'	31:DA:2663:G:O4'	2.05	0.56
31:DA:2723:C:H5"	43:DR:2:ARG:HD2	1.86	0.56
34:DE:167:VAL:CG1	34:DE:189:PRO:HD3	2.35	0.56
36:DG:111:LEU:HA	36:DG:114:ILE:HG12	1.87	0.56
36:DG:111:LEU:O	36:DG:114:ILE:HG12	2.05	0.56
39:DN:18:ALA:HB2	39:DN:26:LEU:HD13	1.87	0.56
39:DN:30:ILE:HG23	39:DN:52:VAL:HG11	1.86	0.56
39:DN:65:LYS:HD2	39:DN:67:LEU:HG	1.86	0.56
41:DP:23:PRO:CB	41:DP:33:ARG:HG3	2.25	0.56
41:DP:85:LEU:HB3	41:DP:114:ILE:HD13	1.88	0.56
42:DQ:137:TYR:HB2	51:DZ:76:LEU:HD11	1.87	0.56
42:DQ:141:GLN:HE21	51:DZ:71:VAL:C	2.14	0.56
44:DS:71:ARG:N	44:DS:101:LEU:HD21	2.20	0.56
1:AA:323:U:OP1	20:AT:26:ASN:ND2	2.38	0.56
1:AA:355:C:C2	1:AA:356:A:C8	2.93	0.56
1:AA:422:C:H1'	1:AA:423:G:N2	2.21	0.56
1:AA:629:G:H2'	1:AA:630:G:O4'	2.05	0.56
1:AA:1312:G:N2	1:AA:1326:C:C2	2.73	0.56
1:AA:1452:C:O4'	1:AA:1456:G:C2	2.58	0.56
1:AA:1478:C:H2'	1:AA:1479:C:H6	1.70	0.56
2:AB:87:ARG:NE	2:AB:233:SER:HB3	2.18	0.56
2:AB:228:GLY:O	2:AB:230:VAL:HG13	2.05	0.56
7:AG:26:PHE:O	7:AG:30:ILE:HG12	2.06	0.56
16:AP:72:ARG:HH21	16:AP:73:LEU:CD2	2.11	0.56
28:B6:16:CYS:O	28:B6:18:ARG:NE	2.36	0.56
30:B8:32:LEU:CG	30:B8:34:TRP:HE3	2.18	0.56
30:B8:35:GLN:HB3	30:B8:36:LYS:HG3	1.86	0.56
31:BA:848:G:N9	31:BA:933:A:H8	2.02	0.56
31:BA:1264:G:H3'	31:BA:1265:A:H5"	1.87	0.56
36:BG:93:THR:C	36:BG:94:LEU:HD23	2.31	0.56
37:BH:117:PRO:HA	37:BH:123:PHE:HE1	1.69	0.56
39:BN:78:TYR:HD1	39:BN:79:PRO:CG	2.18	0.56
43:BR:24:GLN:HE22	43:BR:36:THR:HG21	1.68	0.56
44:BS:101:LEU:HD13	44:BS:102:ALA:O	2.06	0.56
47:BV:15:GLU:CB	47:BV:16:PRO:HD2	2.35	0.56
49:BX:73:ARG:O	49:BX:74:PRO:C	2.48	0.56
1:CA:355:C:C2	1:CA:356:A:C8	2.93	0.56
2:CB:105:PHE:O	2:CB:107:THR:N	2.38	0.56
2:CB:168:THR:HG21	2:CB:192:SER:HA	1.87	0.56
5:CE:90:VAL:O	5:CE:91:LEU:HD13	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:53:ALA:O	6:CF:54:LYS:HB2	2.04	0.56
9:CI:48:GLU:N	9:CI:49:PRO:HD2	2.21	0.56
12:CL:66:VAL:HG11	12:CL:98:TYR:CE1	2.39	0.56
15:CO:78:TYR:O	15:CO:82:ILE:HG22	2.05	0.56
31:DA:14:A:C6	31:DA:526:A:C2	2.93	0.56
31:DA:358:U:H6	31:DA:358:U:H3'	1.70	0.56
31:DA:637:A:O5'	41:DP:116:GLY:HA2	2.06	0.56
31:DA:795:C:O2'	31:DA:796:C:H5'	2.06	0.56
31:DA:1168:G:H2'	31:DA:1169:G:H5'	1.88	0.56
31:DA:1438:U:O2'	31:DA:1439:A:H5'	2.04	0.56
33:DD:8:PRO:HB3	33:DD:14:ARG:CB	2.35	0.56
34:DE:89:ASP:O	34:DE:90:THR:CB	2.54	0.56
37:DH:41:MET:HA	37:DH:41:MET:HE3	1.86	0.56
38:DI:88:ILE:HD11	38:DI:123:LEU:CD2	2.35	0.56
41:DP:71:VAL:HG12	41:DP:72:PRO:HD3	1.81	0.56
46:DU:93:LYS:HD3	46:DU:93:LYS:H	1.70	0.56
47:DV:43:GLU:H	47:DV:48:GLY:HA2	1.68	0.56
48:DW:12:ILE:HG23	48:DW:17:VAL:CG2	2.34	0.56
48:DW:54:ALA:HB1	48:DW:107:LEU:HD22	1.87	0.56
49:DX:39:ILE:O	49:DX:42:ALA:HB3	2.05	0.56
1:AA:30:U:H4'	1:AA:31:G:OP2	2.06	0.56
1:AA:920:U:O4'	1:AA:1080:A:C2	2.58	0.56
2:AB:20:GLU:HB2	2:AB:190:THR:OG1	2.06	0.56
2:AB:189:ASP:N	2:AB:189:ASP:OD1	2.37	0.56
4:AD:33:MET:C	4:AD:35:ARG:H	2.12	0.56
4:AD:106:TYR:HE1	4:AD:112:VAL:O	1.89	0.56
4:AD:191:ARG:HE	4:AD:200:GLU:CD	2.14	0.56
9:AI:118:LYS:O	9:AI:119:ALA:HB3	2.06	0.56
22:B0:68:GLU:HG2	22:B0:80:HIS:HB2	1.88	0.56
30:B8:35:GLN:HA	31:BA:2420:C:P	2.46	0.56
31:BA:719:C:H2'	31:BA:720:C:C6	2.40	0.56
31:BA:1558:A:H4'	31:BA:1559:G:O5'	2.05	0.56
31:BA:1679:U:C2'	31:BA:1680:U:H5'	2.35	0.56
31:BA:1684:C:O2'	31:BA:1685:C:H5'	2.06	0.56
31:BA:2476:A:N3	31:BA:2477:C:H5'	2.21	0.56
31:BA:2496:C:OP1	42:BQ:81:VAL:CG1	2.53	0.56
31:BA:2845:G:O2'	31:BA:2846:G:H5'	2.06	0.56
33:BD:35:LYS:NZ	33:BD:104:TYR:CD1	2.72	0.56
34:BE:60:ASN:N	34:BE:60:ASN:HD22	2.02	0.56
37:BH:41:MET:HA	37:BH:41:MET:HE3	1.86	0.56
37:BH:97:ARG:O	37:BH:98:LEU:C	2.47	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BI:133:HIS:CG	38:BI:134:PRO:HD2	2.39	0.56
44:BS:78:LEU:CD1	44:BS:103:GLU:HB3	2.35	0.56
51:BZ:8:TYR:CD1	51:BZ:8:TYR:N	2.72	0.56
1:CA:543:C:O2'	1:CA:544:G:H5'	2.04	0.56
1:CA:619:U:H2'	4:CD:135:LEU:HD21	1.88	0.56
3:CC:83:ARG:O	3:CC:86:VAL:HG22	2.06	0.56
6:CF:46:ARG:HH12	18:CR:37:VAL:HG21	1.70	0.56
12:CL:21:LYS:N	12:CL:21:LYS:HD2	2.20	0.56
15:CO:81:LEU:CD1	15:CO:85:LEU:HD12	2.36	0.56
17:CQ:3:LYS:HD2	17:CQ:60:ILE:HD11	1.87	0.56
17:CQ:5:VAL:CG1	17:CQ:6:LEU:N	2.69	0.56
24:D2:47:ASN:HD22	24:D2:48:HIS:H	1.52	0.56
24:D2:52:ASP:O	24:D2:56:GLN:NE2	2.38	0.56
31:DA:1635:G:H2'	31:DA:1636:C:H6	1.69	0.56
31:DA:1889:A:N1	31:DA:2234:G:H1'	2.21	0.56
31:DA:1899:G:O2'	31:DA:1900:A:H5"	2.06	0.56
31:DA:2853:C:H2'	31:DA:2854:G:C8	2.40	0.56
32:DB:37:C:C5	32:DB:38:C:C4	2.94	0.56
37:DH:91:GLY:O	37:DH:92:ILE:HG13	2.05	0.56
38:DI:28:ASN:C	38:DI:32:PRO:HG2	2.31	0.56
39:DN:2:LYS:NZ	46:DU:94:ASN:ND2	2.53	0.56
39:DN:87:LEU:O	39:DN:88:GLU:C	2.48	0.56
47:DV:61:VAL:O	47:DV:62:LEU:HD23	2.06	0.56
49:DX:9:LEU:HD12	49:DX:30:VAL:C	2.30	0.56
49:DX:65:ARG:O	49:DX:66:LEU:HB2	2.05	0.56
1:AA:176:C:H2'	1:AA:177:C:C6	2.41	0.56
1:AA:524:G:H2'	1:AA:525:C:C6	2.40	0.56
1:AA:539:A:OP2	12:AL:115:LYS:HE3	2.06	0.56
1:AA:1154:G:H2'	1:AA:1155:G:H8	1.69	0.56
2:AB:7:VAL:O	2:AB:11:LEU:HG	2.06	0.56
2:AB:67:THR:HA	2:AB:90:MET:HE1	1.88	0.56
2:AB:102:LEU:HD12	2:AB:102:LEU:N	2.21	0.56
5:AE:80:ILE:HD11	5:AE:91:LEU:HD23	1.87	0.56
5:AE:112:LEU:N	5:AE:112:LEU:HD23	2.21	0.56
10:AJ:47:PHE:CE2	14:AN:37:PHE:HE2	2.23	0.56
10:AJ:54:PHE:HZ	10:AJ:55:LYS:HZ2	1.50	0.56
12:AL:25:PRO:C	12:AL:27:LEU:H	2.12	0.56
18:AR:50:ILE:HD12	18:AR:70:ILE:HG21	1.87	0.56
18:AR:58:LEU:HD23	18:AR:62:GLU:HB3	1.86	0.56
24:B2:32:LEU:CD2	31:BA:61:G:O2'	2.53	0.56
24:B2:34:GLU:O	24:B2:34:GLU:HG2	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:23:VAL:HG11	30:B8:46:ARG:HD3	1.86	0.56
31:BA:132:G:H1	31:BA:147:U:H3	1.54	0.56
31:BA:271(X):G:C2'	31:BA:271(Y):U:H5"	2.36	0.56
31:BA:1109:C:C5	31:BA:1110:G:C5	2.92	0.56
31:BA:1142(A):A:N7	31:BA:1144:G:C6	2.73	0.56
31:BA:2532:G:O2'	31:BA:2657:A:N6	2.39	0.56
33:BD:24:ILE:CG2	33:BD:24:ILE:O	2.52	0.56
33:BD:85:ASP:HB2	33:BD:92:ILE:HG13	1.88	0.56
33:BD:270:ILE:HD12	33:BD:270:ILE:C	2.31	0.56
35:BF:65:TRP:CH2	35:BF:75:HIS:HD2	2.24	0.56
38:BI:28:ASN:C	38:BI:32:PRO:HG2	2.30	0.56
38:BI:94:ALA:HB1	38:BI:114:LEU:HD12	1.87	0.56
40:BO:7:TYR:CE1	40:BO:20:MET:HE3	2.35	0.56
46:BU:49:HIS:HA	46:BU:52:ARG:HB2	1.88	0.56
1:CA:97:G:O2'	1:CA:98:G:O5'	2.24	0.56
1:CA:622:A:C8	1:CA:623:C:C5	2.94	0.56
1:CA:625:G:H2'	1:CA:626:U:H6	1.71	0.56
1:CA:719:C:C5	1:CA:720:C:C4	2.94	0.56
1:CA:792:A:H4'	1:CA:793:U:O5'	2.05	0.56
1:CA:991:U:O2'	1:CA:992:U:OP2	2.20	0.56
1:CA:1128:C:O2'	1:CA:1130:A:C8	2.49	0.56
1:CA:1312:G:N2	1:CA:1326:C:C2	2.73	0.56
2:CB:83:MET:HE2	2:CB:83:MET:HA	1.86	0.56
2:CB:87:ARG:NE	2:CB:233:SER:HB3	2.20	0.56
9:CI:26:VAL:HG22	9:CI:61:ALA:HB3	1.87	0.56
18:CR:62:GLU:HA	18:CR:65:ILE:HD11	1.88	0.56
22:D0:25:ARG:HD2	22:D0:29:GLN:NE2	2.21	0.56
31:DA:1047:G:N3	31:DA:1111:A:N6	2.54	0.56
31:DA:1505:C:H2'	31:DA:1506:C:O5'	2.05	0.56
31:DA:1777:U:C2'	31:DA:1778:U:H5'	2.35	0.56
33:DD:35:LYS:HE3	33:DD:64:ILE:C	2.31	0.56
41:DP:80:TYR:CD1	41:DP:111:ARG:HB3	2.40	0.56
43:DR:12:ARG:HD3	43:DR:16:HIS:ND1	2.20	0.56
43:DR:71:GLN:HA	43:DR:71:GLN:NE2	2.15	0.56
50:DY:96:ILE:HG13	50:DY:99:CYS:SG	2.45	0.56
51:DZ:12:GLY:O	51:DZ:13:GLU:HG3	2.05	0.56
4:AD:13:ARG:O	4:AD:15:GLU:N	2.38	0.56
9:AI:26:VAL:HG22	9:AI:61:ALA:HB3	1.87	0.56
10:AJ:7:LYS:O	10:AJ:96:ILE:HA	2.06	0.56
15:AO:55:GLY:HA2	15:AO:58:MET:HE3	1.88	0.56
18:AR:35:ARG:O	18:AR:37:VAL:N	2.38	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:B2:25:VAL:HG13	24:B2:26:ARG:CD	2.31	0.56
28:B6:13:CYS:O	28:B6:21:TYR:HA	2.05	0.56
28:B6:19:ARG:HG3	28:B6:20:ASN:H	1.71	0.56
30:B8:26:LYS:HE2	30:B8:47:LYS:HG2	1.87	0.56
31:BA:203:C:H3'	31:BA:204:A:H5"	1.88	0.56
31:BA:2075:U:H2'	31:BA:2238:G:N2	2.20	0.56
31:BA:2342:C:OP2	31:BA:2342:C:H6	1.88	0.56
31:BA:2392:A:C8	41:BP:60:MET:HG2	2.40	0.56
31:BA:2606:C:H2'	31:BA:2607:G:H5'	1.87	0.56
31:BA:2759:G:O2'	31:BA:2760:C:H5'	2.06	0.56
35:BF:160:ASN:C	35:BF:160:ASN:ND2	2.59	0.56
38:BI:110:ASP:HB2	38:BI:113:ARG:HG2	1.88	0.56
39:BN:14:VAL:CA	39:BN:135:PRO:HD2	2.35	0.56
39:BN:40:PRO:C	46:BU:64:ARG:NH2	2.64	0.56
41:BP:96:THR:HG22	41:BP:126:VAL:HG23	1.86	0.56
41:BP:102:ARG:O	41:BP:103:ALA:HB2	2.06	0.56
44:BS:53:SER:OG	44:BS:54:LEU:N	2.35	0.56
45:BT:28:VAL:HG13	45:BT:46:GLU:HA	1.88	0.56
1:CA:356:A:H2'	1:CA:357:G:O5'	2.05	0.56
1:CA:615:C:H2'	1:CA:616:G:O4'	2.06	0.56
2:CB:21:ARG:CB	2:CB:39:ILE:HA	2.36	0.56
3:CC:69:HIS:N	3:CC:69:HIS:CD2	2.74	0.56
4:CD:33:MET:C	4:CD:35:ARG:H	2.12	0.56
16:CP:20:VAL:HG23	16:CP:34:GLU:O	2.06	0.56
28:D6:42:TRP:HZ2	31:DA:642:G:O3'	1.87	0.56
30:D8:14:VAL:CG1	30:D8:22:VAL:HG13	2.36	0.56
30:D8:31:HIS:O	30:D8:32:LEU:C	2.48	0.56
31:DA:642:G:H21	31:DA:646:A:H2	1.51	0.56
31:DA:1022:G:C6	31:DA:1140:C:C4	2.94	0.56
31:DA:1495:A:N3	31:DA:1495:A:H2'	2.20	0.56
31:DA:2876:G:H4'	45:DT:3:ARG:HD3	1.86	0.56
32:DB:44:G:C5'	32:DB:45:A:OP1	2.44	0.56
33:DD:158:ALA:CA	33:DD:161:THR:HG21	2.35	0.56
33:DD:270:ILE:HD12	33:DD:270:ILE:C	2.31	0.56
34:DE:111:ARG:HA	43:DR:2:ARG:HG3	1.87	0.56
35:DF:1:MET:O	35:DF:2:LYS:C	2.48	0.56
35:DF:160:ASN:HD22	35:DF:162:LEU:H	1.54	0.56
42:DQ:7:MET:O	42:DQ:10:ARG:NH2	2.37	0.56
46:DU:83:LEU:HD13	46:DU:113:ALA:HB2	1.86	0.56
47:DV:64:HIS:CG	47:DV:64:HIS:O	2.57	0.56
1:AA:84:U:H5	1:AA:88:A:N7	2.04	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:946:A:H2'	1:AA:947:G:C8	2.41	0.56
1:AA:1030(A):G:H1'	1:AA:1031:G:H22	1.70	0.56
1:AA:1157:A:H4'	1:AA:1158:C:O5'	2.06	0.56
1:AA:1203:C:OP1	14:AN:3:ARG:HD3	2.06	0.56
2:AB:130:ARG:HA	2:AB:130:ARG:HE	1.69	0.56
6:AF:11:ASN:O	6:AF:14:LEU:HB2	2.06	0.56
10:AJ:6:ILE:HG22	10:AJ:98:ILE:HG13	1.87	0.56
12:AL:24:VAL:HG12	12:AL:24:VAL:O	2.04	0.56
15:AO:78:TYR:O	15:AO:82:ILE:HG22	2.05	0.56
27:B5:32:PRO:HD2	31:BA:2886:G:O2'	2.05	0.56
31:BA:767:U:O2'	31:BA:768:G:H5'	2.05	0.56
31:BA:1106:A:C2'	31:BA:1107:G:O5'	2.53	0.56
31:BA:1439:A:C2	31:BA:1553:A:C4	2.94	0.56
31:BA:1796:U:H2'	31:BA:1797:C:H6	1.71	0.56
31:BA:2652:C:H2'	31:BA:2653:U:C5'	2.34	0.56
39:BN:30:ILE:HG23	39:BN:52:VAL:HG11	1.88	0.56
43:BR:9:LYS:O	43:BR:10:LEU:HD23	2.06	0.56
49:BX:74:PRO:O	49:BX:75:ASP:C	2.49	0.56
1:CA:262:A:C6	1:CA:263:A:C6	2.93	0.56
1:CA:651:C:H2'	1:CA:652:U:C6	2.41	0.56
1:CA:947:G:H2'	1:CA:948:C:C6	2.41	0.56
1:CA:1096:C:H2'	1:CA:1097:C:C6	2.40	0.56
1:CA:1452:C:O4'	1:CA:1456:G:C2	2.59	0.56
2:CB:36:ARG:H	2:CB:41:ILE:HD13	1.69	0.56
5:CE:102:ALA:HB1	5:CE:106:PRO:CG	2.35	0.56
19:CS:6:LYS:HG2	19:CS:7:LYS:CD	2.34	0.56
23:D1:23:LYS:HB2	23:D1:37:ILE:HG22	1.86	0.56
23:D1:26:ARG:CD	23:D1:34:THR:HB	2.35	0.56
29:D7:16:HIS:CB	29:D7:44:PRO:HG2	2.36	0.56
30:D8:41:ILE:HD12	31:DA:2419:U:OP1	2.06	0.56
31:DA:175:G:H8	31:DA:175:G:H5'	1.70	0.56
31:DA:271(D):G:H1	31:DA:271(T):C:H42	1.54	0.56
31:DA:310:A:P	50:DY:18:GLY:HA2	2.45	0.56
31:DA:495:G:H1'	48:DW:57:ASN:ND2	2.21	0.56
31:DA:661:C:O3'	41:DP:18:ARG:HA	2.06	0.56
31:DA:1341:U:C2'	31:DA:1397:U:O2	2.54	0.56
31:DA:1935:G:H1'	31:DA:1964:G:N2	2.20	0.56
32:DB:7:G:H5'	44:DS:29:PHE:CZ	2.40	0.56
35:DF:46:ARG:HG2	35:DF:46:ARG:NH1	2.08	0.56
45:DT:33:LYS:NZ	45:DT:33:LYS:N	2.54	0.56
46:DU:92:ARG:O	46:DU:94:ASN:N	2.39	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DV:52:VAL:O	47:DV:53:GLU:HB3	2.06	0.56
49:DX:31:HIS:HD2	49:DX:33:LYS:H	1.54	0.56
49:DX:72:LYS:HG3	49:DX:74:PRO:CD	2.32	0.56
1:AA:131:C:H2'	1:AA:132:C:C6	2.41	0.56
1:AA:167:G:O2'	1:AA:168:G:H5'	2.05	0.56
1:AA:559:A:C4'	1:AA:560:U:H3'	2.36	0.56
1:AA:615:C:H2'	1:AA:616:G:O4'	2.06	0.56
1:AA:1133:G:N3	1:AA:1142:G:N2	2.54	0.56
1:AA:1285:A:OP1	1:AA:1285:A:H8	1.89	0.56
2:AB:83:MET:HE2	2:AB:83:MET:HA	1.88	0.56
3:AC:148:GLY:HA3	3:AC:172:ARG:O	2.05	0.56
6:AF:62:TRP:C	6:AF:63:TYR:HD2	2.14	0.56
29:B7:16:HIS:CB	29:B7:44:PRO:HG2	2.34	0.56
30:B8:58:ILE:O	30:B8:61:LEU:HG	2.05	0.56
31:BA:806:C:OP2	41:BP:39:LYS:CD	2.53	0.56
31:BA:909:A:H2'	31:BA:912:C:H5	1.71	0.56
31:BA:2880:C:O2'	43:BR:90:ARG:HD3	2.06	0.56
34:BE:92:THR:O	34:BE:93:VAL:HB	2.05	0.56
34:BE:176:ILE:HG22	34:BE:176:ILE:O	2.05	0.56
35:BF:53:THR:HB	35:BF:56:GLU:OE1	2.05	0.56
35:BF:89:VAL:HG12	35:BF:90:PHE:H	1.69	0.56
44:BS:28:VAL:O	44:BS:29:PHE:HB3	2.06	0.56
49:BX:70:LEU:O	49:BX:71:GLY:O	2.24	0.56
50:BY:41:GLY:O	50:BY:42:VAL:C	2.49	0.56
1:CA:147:G:N2	1:CA:148:G:H1'	2.21	0.56
1:CA:247:G:OP2	17:CQ:100:LYS:HG2	2.06	0.56
1:CA:542:G:H5'	4:CD:41:GLY:CA	2.36	0.56
1:CA:741:G:H2'	1:CA:742:G:O4'	2.06	0.56
4:CD:8:VAL:HG12	4:CD:21:LEU:HD12	1.88	0.56
10:CJ:39:PRO:HB3	10:CJ:70:ARG:NH1	2.20	0.56
16:CP:23:ASP:O	16:CP:25:ARG:N	2.39	0.56
18:CR:50:ILE:HD11	18:CR:70:ILE:HG21	1.87	0.56
24:D2:49:LYS:C	24:D2:53:LEU:HB3	2.31	0.56
27:D5:29:THR:HG21	31:DA:2815:C:C5'	2.35	0.56
30:D8:3:LYS:HE3	31:DA:242:G:O5'	2.06	0.56
31:DA:288:C:N4	31:DA:353:G:H1	2.03	0.56
31:DA:364:C:O2	31:DA:364:C:H2'	2.05	0.56
31:DA:661:C:H2'	31:DA:662:G:C8	2.41	0.56
31:DA:1040:C:O2'	31:DA:1041:C:P	2.63	0.56
31:DA:1112:G:H1'	31:DA:1113:U:OP1	2.06	0.56
31:DA:1210:A:C8	31:DA:1210:A:H5'	2.39	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1515:G:H4'	31:DA:1556:C:O2'	2.04	0.56
31:DA:1745(A):C:H5"	31:DA:1745(A):C:H6	1.71	0.56
31:DA:2228:G:C5	31:DA:2229:C:C4	2.94	0.56
35:DF:83:PHE:O	35:DF:84:VAL:CB	2.53	0.56
37:DH:41:MET:HG3	37:DH:53:GLU:O	2.06	0.56
42:DQ:9:TYR:HD2	42:DQ:9:TYR:C	2.12	0.56
46:DU:87:GLY:HA3	47:DV:52:VAL:HG13	1.86	0.56
51:DZ:44:PHE:CZ	51:DZ:48:PHE:HD2	2.24	0.56
1:AA:624:C:H2'	1:AA:625:G:C8	2.41	0.56
1:AA:828:A:H2'	1:AA:829:G:O4'	2.06	0.56
1:AA:916:G:H2'	1:AA:917:G:H8	1.71	0.56
1:AA:1081:G:N2	1:AA:1082:G:H1'	2.21	0.56
2:AB:22:LYS:HZ3	2:AB:40:HIS:HE1	1.52	0.56
3:AC:20:SER:HB2	3:AC:40:ARG:NH2	2.21	0.56
5:AE:33:VAL:HG12	5:AE:34:VAL:H	1.71	0.56
7:AG:15:ASP:HB3	7:AG:19:GLY:N	2.21	0.56
15:AO:78:TYR:OH	15:AO:88:ARG:HD2	2.06	0.56
15:AO:81:LEU:CD1	15:AO:85:LEU:HD12	2.35	0.56
28:B6:26:ASN:OD1	28:B6:35:GLU:HG2	2.04	0.56
29:B7:39:ARG:HD3	31:BA:458:G:O2'	2.06	0.56
31:BA:2183:C:H2'	31:BA:2184:G:C8	2.41	0.56
31:BA:2301:C:H2'	31:BA:2302:G:O4'	2.06	0.56
31:BA:2567:G:H2'	31:BA:2568:C:C6	2.41	0.56
31:BA:2577:A:H5"	31:BA:2578:G:H5'	1.88	0.56
40:BO:21:CYS:HB2	40:BO:39:ILE:HD12	1.88	0.56
41:BP:83:VAL:CG1	41:BP:112:LEU:HD21	2.35	0.56
47:BV:83:ARG:CG	47:BV:83:ARG:NH1	2.66	0.56
51:BZ:109:ALA:O	51:BZ:144:LEU:O	2.24	0.56
51:BZ:120:ILE:HG22	51:BZ:120:ILE:O	2.05	0.56
1:CA:79:G:C4'	1:CA:80:G:OP1	2.53	0.56
1:CA:472:A:H4'	16:CP:82:GLN:HE22	1.70	0.56
1:CA:745:C:H2'	1:CA:746:A:H8	1.71	0.56
1:CA:816:A:OP2	1:CA:1527:C:H5'	2.06	0.56
1:CA:865:A:C2	1:CA:918:A:H4'	2.41	0.56
1:CA:1097:C:H2'	1:CA:1098:C:H6	1.71	0.56
1:CA:1469:G:H2'	1:CA:1470:G:H8	1.70	0.56
6:CF:62:TRP:C	6:CF:63:TYR:HD2	2.13	0.56
9:CI:7:THR:O	9:CI:79:LEU:HD12	2.06	0.56
24:D2:26:ARG:CG	49:DX:5:TYR:O	2.54	0.56
31:DA:662:G:P	41:DP:18:ARG:HG2	2.46	0.56
31:DA:953:A:O2'	31:DA:954:G:H5'	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1174:A:OP1	31:DA:1175:U:OP1	2.24	0.56
31:DA:1569:A:H5'	33:DD:61:LEU:HD21	1.87	0.56
31:DA:1914:C:H2'	31:DA:1915:U:O4'	2.06	0.56
31:DA:2677:G:H2'	31:DA:2678:C:C6	2.41	0.56
31:DA:2876:G:H4'	45:DT:3:ARG:NE	2.21	0.56
33:DD:228:PRO:HD3	33:DD:235:GLY:CA	2.35	0.56
33:DD:232:PRO:HG2	33:DD:248:SER:O	2.06	0.56
36:DG:106:LEU:HD12	36:DG:110:ALA:HB3	1.86	0.56
51:DZ:121:HIS:ND1	51:DZ:169:GLU:OE2	2.39	0.56
1:AA:333:G:O2'	1:AA:334:C:H5'	2.06	0.55
1:AA:687:A:H1'	1:AA:688:G:OP2	2.05	0.55
4:AD:56:VAL:HG12	4:AD:202:LEU:HD13	1.87	0.55
4:AD:119:GLN:O	4:AD:123:HIS:HD2	1.88	0.55
8:AH:86:ILE:O	8:AH:87:SER:C	2.48	0.55
9:AI:28:VAL:HA	9:AI:63:ILE:O	2.07	0.55
15:AO:23:GLY:O	15:AO:27:VAL:HB	2.06	0.55
18:AR:59:SER:HB3	18:AR:62:GLU:CG	2.35	0.55
23:B1:13:ILE:HD13	23:B1:14:VAL:O	2.06	0.55
28:B6:39:TYR:O	28:B6:49:HIS:CE1	2.56	0.55
31:BA:18:C:OP1	46:BU:25:TRP:O	2.24	0.55
31:BA:1495:A:C2	31:BA:1496:A:C2	2.94	0.55
31:BA:2313:C:O2'	31:BA:2314:C:H5'	2.06	0.55
34:BE:111:ARG:HA	43:BR:2:ARG:HG3	1.88	0.55
36:BG:23:PHE:CZ	36:BG:171:ALA:HB3	2.41	0.55
36:BG:111:LEU:O	36:BG:114:ILE:HG12	2.06	0.55
37:BH:77:LYS:HA	37:BH:80:SER:HB2	1.88	0.55
41:BP:17:LYS:C	41:BP:19:VAL:N	2.65	0.55
44:BS:17:ARG:HE	44:BS:89:ARG:HH21	1.52	0.55
47:BV:19:LYS:CD	47:BV:20:LEU:H	2.19	0.55
49:BX:76:ARG:HD2	49:BX:77:LYS:HB2	1.88	0.55
1:CA:565:U:OP2	1:CA:566:G:O2'	2.23	0.55
1:CA:1065:U:C1'	1:CA:1066:C:OP2	2.52	0.55
1:CA:1256:A:H61	1:CA:1278:U:C1'	2.05	0.55
4:CD:94:LEU:HA	4:CD:97:LEU:HB2	1.88	0.55
4:CD:138:TYR:CD2	4:CD:139:ARG:N	2.74	0.55
18:CR:36:ASN:ND2	18:CR:39:VAL:HG21	2.21	0.55
22:D0:18:ALA:HB1	31:DA:2271:G:OP1	2.06	0.55
29:D7:8:ASN:HD22	29:D7:9:ARG:N	2.01	0.55
31:DA:241:A:O4'	31:DA:243:U:C6	2.59	0.55
31:DA:637:A:OP1	41:DP:133:SER:HB3	2.06	0.55
31:DA:733:G:O6	31:DA:761:A:C8	2.58	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:751:A:C5'	48:DW:90:ARG:HA	2.32	0.55
31:DA:817:C:H2'	31:DA:818:G:O4'	2.07	0.55
31:DA:1952:A:C6	31:DA:1953:A:C6	2.94	0.55
34:DE:120:TRP:CD2	34:DE:155:LYS:HD3	2.41	0.55
37:DH:138:LYS:O	37:DH:142:GLY:N	2.39	0.55
42:DQ:140:ALA:CB	51:DZ:99:TYR:HB2	2.35	0.55
45:DT:50:ILE:HA	45:DT:99:LEU:HD11	1.86	0.55
1:AA:327:A:C4	1:AA:329:A:C8	2.94	0.55
1:AA:434:U:H2'	1:AA:435:C:C6	2.42	0.55
1:AA:792:A:H4'	1:AA:793:U:O5'	2.06	0.55
7:AG:73:MET:HA	7:AG:91:VAL:HG23	1.88	0.55
12:AL:21:LYS:N	12:AL:21:LYS:HD2	2.21	0.55
16:AP:20:VAL:HG23	16:AP:34:GLU:O	2.07	0.55
22:B0:74:ARG:HG2	32:BB:12:C:O2'	2.07	0.55
23:B1:85:LEU:HD13	23:B1:87:PRO:HG3	1.88	0.55
24:B2:12:GLU:C	24:B2:14:ARG:H	2.14	0.55
25:B3:40:THR:HG23	25:B3:43:ILE:CG1	2.34	0.55
30:B8:60:LEU:C	30:B8:63:PRO:HD2	2.31	0.55
31:BA:287:C:N4	31:BA:354:G:H1	2.03	0.55
31:BA:795:C:H2'	31:BA:796:C:H6	1.70	0.55
31:BA:1531:C:H5"	31:BA:1532:C:H6	1.72	0.55
31:BA:2206:G:H3'	31:BA:2206:G:N3	2.22	0.55
36:BG:123:ASN:O	36:BG:126:ASP:HB2	2.06	0.55
39:BN:75:TYR:N	39:BN:75:TYR:CD1	2.74	0.55
41:BP:73:GLY:O	41:BP:74:GLU:C	2.49	0.55
44:BS:35:ILE:H	44:BS:53:SER:CB	2.19	0.55
50:BY:28:LYS:HB2	50:BY:38:ILE:N	2.21	0.55
50:BY:45:VAL:HG22	50:BY:62:GLU:HB2	1.89	0.55
1:CA:37:U:O2'	1:CA:38:G:H5'	2.06	0.55
1:CA:709:G:O2'	1:CA:710:G:H5'	2.06	0.55
1:CA:1203:C:OP1	14:CN:3:ARG:HD3	2.06	0.55
1:CA:1239:A:H62	1:CA:1299:A:N6	2.03	0.55
2:CB:61:LEU:HA	2:CB:64:ARG:CG	2.36	0.55
3:CC:91:LEU:HB3	3:CC:99:VAL:HG21	1.89	0.55
8:CH:26:VAL:HG22	8:CH:27:PRO:O	2.07	0.55
8:CH:87:SER:OG	8:CH:132:GLU:HG3	2.07	0.55
18:CR:59:SER:HB3	18:CR:62:GLU:CG	2.35	0.55
30:D8:58:ILE:O	30:D8:61:LEU:HG	2.06	0.55
31:DA:1374:G:C6	31:DA:1375:C:C4	2.95	0.55
31:DA:2652:C:H2'	31:DA:2653:U:C5'	2.34	0.55
32:DB:21:G:H2'	32:DB:21:G:N3	2.21	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DD:35:LYS:NZ	33:DD:104:TYR:CB	2.59	0.55
35:DF:199:TRP:CZ3	35:DF:203:GLN:HG3	2.41	0.55
37:DH:85:LYS:NZ	37:DH:133:VAL:HB	2.21	0.55
39:DN:120:LEU:CD1	39:DN:120:LEU:C	2.79	0.55
41:DP:97:PRO:HD3	41:DP:126:VAL:O	2.06	0.55
44:DS:26:LEU:HD22	44:DS:87:PHE:CD1	2.41	0.55
49:DX:33:LYS:O	49:DX:34:ALA:C	2.48	0.55
49:DX:78:LYS:HD3	49:DX:78:LYS:O	2.06	0.55
1:AA:79:G:C4'	1:AA:80:G:OP1	2.54	0.55
1:AA:537:G:OP1	12:AL:113:ARG:NH2	2.40	0.55
1:AA:719:C:O2'	18:AR:49:LYS:HB3	2.06	0.55
1:AA:1084:G:OP1	1:AA:1086:U:C4	2.59	0.55
1:AA:1346:A:H5"	9:AI:120:ARG:HH12	1.71	0.55
2:AB:25:ASN:OD1	2:AB:25:ASN:C	2.48	0.55
2:AB:68:ILE:HG22	2:AB:70:PHE:CE1	2.41	0.55
8:AH:44:PHE:HB3	8:AH:80:ILE:HD11	1.89	0.55
9:AI:7:THR:HB	9:AI:83:ARG:HH11	1.71	0.55
18:AR:31:LEU:H	18:AR:31:LEU:CD2	2.19	0.55
20:AT:13:LEU:H	20:AT:13:LEU:CD1	2.12	0.55
31:BA:225:A:C2'	31:BA:226:G:H5'	2.36	0.55
31:BA:825:C:H2'	31:BA:826:U:O5'	2.06	0.55
31:BA:836:G:H2'	31:BA:837:C:C6	2.42	0.55
31:BA:1505:C:H6	31:BA:1506:C:C6	2.24	0.55
31:BA:1590:U:C2'	31:BA:1591:G:H5"	2.36	0.55
31:BA:1635:G:H2'	31:BA:1636:C:C6	2.41	0.55
31:BA:1648:C:C2'	31:BA:1649:G:O5'	2.55	0.55
31:BA:2314:C:C2	31:BA:2315:G:C8	2.94	0.55
32:BB:8:U:H6	32:BB:8:U:C5'	2.17	0.55
33:BD:3:VAL:HG13	33:BD:17:THR:HB	1.87	0.55
35:BF:83:PHE:O	35:BF:84:VAL:HB	2.07	0.55
39:BN:78:TYR:H	39:BN:79:PRO:CD	2.19	0.55
39:BN:128:HIS:CD2	39:BN:128:HIS:O	2.60	0.55
46:BU:69:CYS:HB3	46:BU:106:PHE:CZ	2.41	0.55
47:BV:25:LEU:C	47:BV:27:ALA:H	2.14	0.55
4:CD:191:ARG:HE	4:CD:200:GLU:CD	2.13	0.55
10:CJ:46:ARG:HD3	14:CN:61:TRP:CZ3	2.41	0.55
27:D5:50:GLY:HA3	27:D5:56:LYS:HG2	1.88	0.55
31:DA:18:C:OP1	46:DU:25:TRP:O	2.24	0.55
31:DA:1528:A:O2'	31:DA:1528(A):A:O5'	2.24	0.55
31:DA:1688:U:H5'	31:DA:1689:A:OP1	2.06	0.55
31:DA:1956:U:C2'	31:DA:1957:C:H5'	2.36	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DN:23:LEU:CD1	39:DN:98:VAL:HG12	2.36	0.55
44:DS:97:ARG:CD	44:DS:97:ARG:C	2.79	0.55
47:DV:2:PHE:CD2	47:DV:42:GLY:HA2	2.41	0.55
47:DV:73:SER:OG	47:DV:75:PHE:CE1	2.57	0.55
1:AA:148:G:C2	1:AA:149:A:N7	2.74	0.55
1:AA:373:A:N3	1:AA:374:A:C8	2.75	0.55
1:AA:976:G:P	14:AN:32:SER:H	2.30	0.55
1:AA:1001(A):G:H2'	1:AA:1002:G:O4'	2.06	0.55
1:AA:1316:G:O3'	14:AN:18:VAL:HG22	2.07	0.55
3:AC:127:ARG:N	3:AC:127:ARG:HD2	2.21	0.55
8:AH:64:LYS:HG2	8:AH:79:VAL:HG21	1.87	0.55
10:AJ:49:VAL:HG22	14:AN:41:ARG:HB2	1.88	0.55
12:AL:38:THR:HG21	12:AL:65:GLU:OE2	2.05	0.55
16:AP:45:THR:C	16:AP:47:ASP:H	2.14	0.55
23:B1:32:LYS:HG2	31:BA:2396:G:O2'	2.07	0.55
24:B2:32:LEU:O	24:B2:33:MET:C	2.48	0.55
31:BA:142:A:H8	31:BA:1408:C:H1'	1.72	0.55
31:BA:322:A:OP2	35:BF:169:ASN:HB2	2.06	0.55
31:BA:330:A:O2'	31:BA:331:A:H8	1.90	0.55
31:BA:573:G:O2'	31:BA:574:C:H3'	2.05	0.55
31:BA:669:G:C8	31:BA:669:G:H5"	2.41	0.55
31:BA:1893:C:C5	31:BA:1894:C:C5	2.93	0.55
31:BA:2632:A:H1'	34:BE:61:ARG:HH12	1.70	0.55
31:BA:2889:C:H2'	31:BA:2891:G:H5'	1.88	0.55
32:BB:15:A:H1'	32:BB:110:G:N9	2.21	0.55
33:BD:161:THR:HG23	33:BD:196:VAL:CG2	2.36	0.55
35:BF:198:ALA:O	35:BF:201:VAL:HG12	2.06	0.55
37:BH:44:VAL:CG1	37:BH:45:VAL:H	2.11	0.55
37:BH:85:LYS:NZ	37:BH:133:VAL:HB	2.21	0.55
38:BI:38:LEU:HD12	38:BI:38:LEU:N	2.21	0.55
38:BI:72:LEU:HD12	38:BI:138:ILE:CG2	2.34	0.55
40:BO:3:GLN:HB2	40:BO:4:PRO:HD2	1.88	0.55
40:BO:23:ARG:HG3	40:BO:24:VAL:N	2.22	0.55
41:BP:90:ARG:HB3	41:BP:91:PHE:CD1	2.42	0.55
43:BR:59:ASP:OD1	43:BR:61:HIS:HB3	2.06	0.55
46:BU:104:GLN:HB2	47:BV:43:GLU:OE2	2.07	0.55
47:BV:35:LEU:HB2	47:BV:59:ALA:HB1	1.88	0.55
1:CA:336:C:H2'	1:CA:337:C:H6	1.71	0.55
1:CA:343:U:C2'	1:CA:346:G:O6	2.55	0.55
1:CA:658:G:C5	1:CA:659:U:C5	2.95	0.55
2:CB:15:VAL:C	2:CB:16:HIS:CG	2.85	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:25:ILE:CD1	13:CM:66:LEU:HD23	2.35	0.55
17:CQ:63:ARG:HG2	17:CQ:64:PRO:HD2	1.88	0.55
30:D8:4:MET:SD	30:D8:61:LEU:CD1	2.90	0.55
31:DA:271(P):C:O2'	31:DA:271(Q):G:H5'	2.06	0.55
31:DA:310:A:OP1	50:DY:18:GLY:HA2	2.06	0.55
31:DA:661:C:H2'	31:DA:662:G:H8	1.71	0.55
31:DA:1508:A:O2'	31:DA:1509:C:OP1	2.22	0.55
31:DA:2494:G:C4	31:DA:2495:G:C8	2.94	0.55
32:DB:15:A:H1'	32:DB:110:G:C8	2.41	0.55
32:DB:66:A:C6	32:DB:109:C:C6	2.95	0.55
34:DE:67:PHE:C	34:DE:69:LYS:H	2.14	0.55
34:DE:116:VAL:HG23	34:DE:122:PHE:CG	2.41	0.55
43:DR:41:ALA:HB1	43:DR:114:VAL:CG2	2.36	0.55
44:DS:95:HIS:CG	44:DS:96:GLY:N	2.64	0.55
49:DX:24:GLY:HA3	49:DX:80:ILE:CG1	2.28	0.55
1:AA:166:G:O2'	1:AA:167:G:H5'	2.07	0.55
1:AA:307:C:C5	1:AA:308:C:C5	2.95	0.55
1:AA:356:A:H2'	1:AA:357:G:O5'	2.06	0.55
1:AA:386:C:H2'	1:AA:387:U:H5'	1.87	0.55
1:AA:410:G:H1'	1:AA:432:A:N6	2.21	0.55
1:AA:411:A:C6	1:AA:429:U:C4	2.95	0.55
1:AA:472:A:H4'	16:AP:82:GLN:HE22	1.70	0.55
1:AA:501:C:H2'	1:AA:502:G:H8	1.71	0.55
1:AA:719:C:C5	1:AA:720:C:C4	2.95	0.55
1:AA:963:G:N3	10:AJ:55:LYS:NZ	2.50	0.55
1:AA:1313:U:P	19:AS:6:LYS:HG3	2.47	0.55
1:AA:1452:C:H5'	1:AA:1456:G:C5	2.41	0.55
2:AB:103:THR:HA	2:AB:180:LEU:HD11	1.87	0.55
6:AF:18:GLN:HA	6:AF:21:LEU:CD2	2.30	0.55
9:AI:6:GLY:HA3	9:AI:84:ALA:HB2	1.88	0.55
15:AO:39:LEU:HD11	15:AO:56:LEU:HB2	1.88	0.55
15:AO:43:LEU:C	15:AO:45:VAL:N	2.64	0.55
17:AQ:33:GLY:O	17:AQ:34:LYS:C	2.49	0.55
24:B2:49:LYS:C	24:B2:53:LEU:HB3	2.32	0.55
31:BA:901:A:H2'	31:BA:901:A:N3	2.20	0.55
31:BA:1439:A:C2	31:BA:1553:A:C5	2.94	0.55
31:BA:1515:G:H4'	31:BA:1556:C:O2'	2.07	0.55
42:BQ:109:VAL:HG13	42:BQ:113:GLN:OE1	2.07	0.55
44:BS:89:ARG:O	44:BS:90:GLY:O	2.25	0.55
49:BX:35:THR:HB	49:BX:75:ASP:OD2	2.06	0.55
51:BZ:95:PRO:HA	51:BZ:129:SER:HA	1.89	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BZ:103:ARG:HD3	51:BZ:136:PHE:CE1	2.41	0.55
51:BZ:118:GLN:O	51:BZ:120:ILE:N	2.39	0.55
51:BZ:150:LEU:HA	51:BZ:151:HIS:HD2	1.72	0.55
1:CA:84:U:H5	1:CA:88:A:N7	2.03	0.55
1:CA:342:C:C2'	1:CA:343:U:H5'	2.36	0.55
1:CA:411:A:C6	1:CA:429:U:C4	2.95	0.55
1:CA:926:G:C6	1:CA:1505:G:C5	2.94	0.55
2:CB:7:VAL:O	2:CB:11:LEU:HG	2.07	0.55
2:CB:187:LEU:HD13	2:CB:187:LEU:O	2.07	0.55
3:CC:86:VAL:O	3:CC:90:GLU:HG2	2.07	0.55
8:CH:77:GLU:HG3	8:CH:78:GLN:H	1.69	0.55
26:D4:13:ARG:HA	36:DG:101:ILE:HD11	1.88	0.55
30:D8:43:GLN:O	30:D8:44:LYS:CD	2.54	0.55
31:DA:31:C:C4	31:DA:32:C:C5	2.95	0.55
31:DA:1464:C:O2'	31:DA:1528:A:H1'	2.07	0.55
31:DA:1600:C:O2'	31:DA:1601:G:H5'	2.07	0.55
34:DE:93:VAL:N	34:DE:95:ILE:HD13	2.08	0.55
34:DE:137:HIS:HB3	34:DE:138:PRO:CD	2.36	0.55
36:DG:93:THR:C	36:DG:94:LEU:HD23	2.32	0.55
37:DH:30:LYS:HZ3	37:DH:81:GLU:HA	1.70	0.55
37:DH:97:ARG:O	37:DH:98:LEU:C	2.49	0.55
39:DN:91:LEU:CA	39:DN:95:PRO:HB3	2.32	0.55
41:DP:107:LYS:O	41:DP:109:GLY:N	2.39	0.55
42:DQ:72:LYS:HB3	42:DQ:94:VAL:CG2	2.37	0.55
43:DR:2:ARG:HD2	43:DR:2:ARG:N	2.21	0.55
51:DZ:150:LEU:N	51:DZ:150:LEU:HD13	2.21	0.55
51:DZ:150:LEU:C	51:DZ:151:HIS:HD2	2.14	0.55
1:AA:709:G:O2'	1:AA:710:G:H5'	2.07	0.55
1:AA:977:A:C2'	1:AA:978:A:H5'	2.34	0.55
2:AB:61:LEU:HA	2:AB:64:ARG:CG	2.36	0.55
7:AG:32:ARG:O	7:AG:33:ASP:CB	2.55	0.55
8:AH:88:LYS:HB3	8:AH:89:PRO:CD	2.32	0.55
9:AI:77:ILE:O	9:AI:81:ILE:HG12	2.06	0.55
14:AN:51:GLY:C	14:AN:53:LEU:H	2.14	0.55
20:AT:89:ARG:HB2	20:AT:104:LEU:CD1	2.34	0.55
31:BA:11:G:O2'	31:BA:12:U:H5'	2.07	0.55
31:BA:492:A:H2'	31:BA:493:G:O4'	2.06	0.55
31:BA:528:A:C2	31:BA:2042:A:H2'	2.42	0.55
31:BA:676:A:H2	31:BA:802:A:N6	2.03	0.55
31:BA:745:G:H5"	31:BA:746:A:OP2	2.06	0.55
31:BA:1669:A:H5"	31:BA:2550:G:OP1	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1816:G:H8	33:BD:62:TYR:HH	1.55	0.55
31:BA:1952:A:C6	31:BA:1953:A:C6	2.94	0.55
31:BA:2360:A:O2'	31:BA:2361:A:O5'	2.25	0.55
31:BA:2393:A:H5'	41:BP:62:LEU:HB3	1.89	0.55
35:BF:68:LYS:O	35:BF:68:LYS:HG3	2.06	0.55
35:BF:155:LEU:HD23	35:BF:186:ILE:HD13	1.88	0.55
38:BI:56:LYS:HZ2	38:BI:57:ARG:CA	2.20	0.55
38:BI:81:VAL:HG11	38:BI:88:ILE:HG23	1.88	0.55
41:BP:10:PRO:CD	41:BP:11:GLY:N	2.70	0.55
41:BP:16:ARG:HG3	41:BP:17:LYS:H	1.70	0.55
41:BP:124:LYS:HG2	41:BP:143:GLY:CA	2.37	0.55
42:BQ:116:GLU:O	42:BQ:120:ILE:HG12	2.06	0.55
45:BT:45:PHE:CE2	45:BT:63:VAL:HG22	2.39	0.55
49:BX:65:ARG:O	49:BX:66:LEU:HB2	2.07	0.55
50:BY:8:LYS:HD2	50:BY:8:LYS:N	2.21	0.55
1:CA:17:U:C2	1:CA:18:C:C5	2.95	0.55
1:CA:167:G:O2'	1:CA:168:G:H5'	2.06	0.55
1:CA:264:U:O2'	17:CQ:64:PRO:HB2	2.06	0.55
1:CA:393:A:C2	1:CA:394:G:C8	2.95	0.55
1:CA:1313:U:P	19:CS:6:LYS:HG3	2.47	0.55
7:CG:146:GLU:OE2	7:CG:149:ARG:HD2	2.07	0.55
9:CI:114:TYR:HD1	10:CJ:60:ARG:HG2	1.70	0.55
12:CL:83:VAL:HG22	12:CL:84:LEU:N	2.22	0.55
23:D1:10:LYS:O	23:D1:13:ILE:HG23	2.05	0.55
23:D1:25:LYS:O	23:D1:26:ARG:HB3	2.06	0.55
23:D1:46:LEU:H	23:D1:46:LEU:CD1	2.06	0.55
27:D5:11:THR:CG2	31:DA:1264:G:H5'	2.35	0.55
31:DA:271(J):C:H5'	31:DA:271(K):U:OP2	2.06	0.55
31:DA:282:A:C4	31:DA:359:A:C2	2.95	0.55
31:DA:671:C:H2'	31:DA:672:C:C6	2.41	0.55
31:DA:828:U:H3'	31:DA:828:U:O2	2.06	0.55
31:DA:1648:C:C2'	31:DA:1649:G:O5'	2.54	0.55
31:DA:2859:G:C8	31:DA:2859:G:C3'	2.90	0.55
35:DF:132:VAL:HG22	35:DF:133:ASN:N	2.22	0.55
41:DP:149:GLU:O	41:DP:149:GLU:HG3	2.07	0.55
45:DT:31:SER:C	45:DT:32:TYR:HD2	2.15	0.55
49:DX:65:ARG:NH2	49:DX:66:LEU:H	2.04	0.55
1:AA:189:G:C6	1:AA:189(A):C:C4	2.94	0.55
1:AA:552:U:O2'	1:AA:553:A:H5'	2.07	0.55
1:AA:872:A:C4	1:AA:874:G:N7	2.75	0.55
1:AA:1003:G:N2	1:AA:1039:C:C2	2.75	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1254:C:OP1	10:AJ:45:ARG:HG2	2.06	0.55
1:AA:1496:C:H4'	31:BA:1920:C:O2'	2.07	0.55
3:AC:69:HIS:CD2	3:AC:69:HIS:N	2.74	0.55
4:AD:138:TYR:CD2	4:AD:139:ARG:N	2.74	0.55
16:AP:50:LYS:HD3	16:AP:50:LYS:C	2.32	0.55
27:B5:50:GLY:O	27:B5:51:TYR:CD1	2.60	0.55
31:BA:58:G:OP1	49:BX:72:LYS:HA	2.06	0.55
31:BA:1497:U:H2'	31:BA:1497:U:O2	2.06	0.55
31:BA:2836:U:C4	31:BA:2883:A:N6	2.75	0.55
32:BB:48:A:H2'	32:BB:49:C:C6	2.40	0.55
33:BD:61:LEU:O	33:BD:63:ARG:NH1	2.39	0.55
34:BE:95:ILE:HD12	34:BE:95:ILE:H	1.71	0.55
39:BN:27:ALA:CB	39:BN:106:MET:HE2	2.36	0.55
41:BP:135:LEU:HD21	41:BP:144:GLU:HG3	1.88	0.55
46:BU:93:LYS:HD3	46:BU:93:LYS:H	1.72	0.55
1:CA:561:U:O2'	1:CA:562:C:P	2.65	0.55
1:CA:577:G:C8	1:CA:816:A:C6	2.95	0.55
1:CA:620:C:C2	4:CD:135:LEU:HG	2.41	0.55
5:CE:145:LYS:O	5:CE:149:GLU:HG2	2.06	0.55
28:D6:12:GLU:CB	28:D6:23:THR:HG22	2.37	0.55
31:DA:272(B):G:O2'	31:DA:272(C):G:C5'	2.55	0.55
31:DA:751:A:H5'	48:DW:90:ARG:CA	2.32	0.55
31:DA:2304:G:H22	31:DA:2312:U:H3	1.53	0.55
31:DA:2532:G:O2'	31:DA:2657:A:N6	2.39	0.55
31:DA:2889:C:H2'	31:DA:2891:G:H5'	1.88	0.55
32:DB:29:A:C2	32:DB:30:C:C2	2.94	0.55
37:DH:153:LYS:N	37:DH:153:LYS:CD	2.70	0.55
40:DO:60:ALA:HB2	40:DO:86:ILE:HA	1.89	0.55
47:DV:72:VAL:HA	47:DV:88:ARG:NH2	2.21	0.55
48:DW:18:ARG:HH11	48:DW:18:ARG:HG2	1.72	0.55
50:DY:83:THR:CG2	50:DY:94:LYS:HB3	2.36	0.55
1:AA:705:U:C5	1:AA:706:A:C5	2.95	0.55
1:AA:1423:G:H5'	40:BO:49:ARG:NH2	2.22	0.55
2:AB:124:SER:OG	2:AB:125:PRO:HD2	2.06	0.55
9:AI:114:TYR:HD1	10:AJ:60:ARG:HG2	1.70	0.55
15:AO:74:ASP:OD2	15:AO:76:GLU:HB3	2.06	0.55
18:AR:59:SER:H	18:AR:62:GLU:CD	2.15	0.55
23:B1:8:SER:N	23:B1:46:LEU:CD1	2.69	0.55
23:B1:19:GLN:HG3	23:B1:44:PRO:HG3	1.89	0.55
27:B5:56:LYS:O	27:B5:57:VAL:O	2.25	0.55
31:BA:271(J):C:H5'	31:BA:271(K):U:OP2	2.05	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:534:U:O2'	46:BU:49:HIS:CD2	2.59	0.55
31:BA:643:A:H2'	31:BA:644:A:O5'	2.07	0.55
31:BA:1112:G:H1'	31:BA:1113:U:OP1	2.05	0.55
31:BA:2880:C:H1'	43:BR:92:GLY:O	2.07	0.55
32:BB:37:C:C5	32:BB:38:C:C4	2.95	0.55
34:BE:82:ARG:HG3	34:BE:83:ASP:N	2.22	0.55
39:BN:120:LEU:CD1	39:BN:120:LEU:C	2.80	0.55
40:BO:107:ARG:HE	40:BO:115:VAL:HG11	1.72	0.55
43:BR:100:LEU:N	43:BR:100:LEU:HD22	2.22	0.55
1:CA:386:C:H2'	1:CA:387:U:H5'	1.89	0.55
1:CA:428:G:C5	1:CA:430:A:C6	2.94	0.55
1:CA:977:A:C8	1:CA:1223:C:C4	2.95	0.55
1:CA:1089:G:C6	1:CA:1090:U:C4	2.95	0.55
2:CB:127:ILE:N	2:CB:127:ILE:HD13	2.22	0.55
2:CB:142:LEU:HD23	2:CB:142:LEU:O	2.07	0.55
6:CF:14:LEU:HB3	6:CF:19:LEU:HB2	1.89	0.55
8:CH:36:LEU:C	8:CH:38:ILE:H	2.14	0.55
9:CI:6:GLY:HA3	9:CI:84:ALA:HB2	1.88	0.55
10:CJ:32:ALA:HB1	10:CJ:75:ILE:CG1	2.36	0.55
12:CL:28:LYS:CE	12:CL:33:ARG:HH12	2.20	0.55
12:CL:33:ARG:HG2	12:CL:60:LEU:HD12	1.89	0.55
17:CQ:40:LYS:HD2	17:CQ:42:TYR:CZ	2.42	0.55
21:CU:9:ARG:O	21:CU:13:ILE:HG13	2.07	0.55
22:D0:68:GLU:CG	22:D0:80:HIS:HB2	2.36	0.55
31:DA:271(O):C:O2'	31:DA:271(P):C:C5	2.42	0.55
31:DA:271(T):C:O2	31:DA:271(T):C:H2'	2.06	0.55
31:DA:1204:A:N1	31:DA:1241:A:N1	2.55	0.55
31:DA:1826:G:H2'	31:DA:1827:C:H6	1.72	0.55
31:DA:1992:G:H5'	31:DA:1994:C:H41	1.72	0.55
31:DA:2223:G:H2'	31:DA:2224:G:C5'	2.34	0.55
31:DA:2748:A:N6	31:DA:2749:A:C6	2.75	0.55
32:DB:38:C:C2	32:DB:39:A:C8	2.95	0.55
34:DE:16:ARG:O	34:DE:18:ASP:N	2.40	0.55
34:DE:24:THR:HG23	34:DE:184:VAL:HG23	1.88	0.55
36:DG:7:LEU:CD2	36:DG:176:LEU:HD22	2.37	0.55
37:DH:153:LYS:HB2	37:DH:154:PRO:CD	2.37	0.55
38:DI:38:LEU:HD12	38:DI:38:LEU:N	2.21	0.55
39:DN:46:VAL:O	39:DN:47:ALA:HB3	2.06	0.55
41:DP:16:ARG:NE	41:DP:18:ARG:HB2	2.21	0.55
46:DU:8:VAL:HG13	46:DU:12:ARG:HG3	1.88	0.55
46:DU:16:LYS:O	46:DU:20:LEU:HD23	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DV:71:LEU:HD13	47:DV:72:VAL:N	2.21	0.55
1:AA:190:U:O2	20:AT:105:SER:HB2	2.07	0.55
1:AA:432:A:C8	1:AA:433:C:C5	2.94	0.55
1:AA:541:G:H2'	1:AA:542:G:H8	1.70	0.55
1:AA:724:G:N3	1:AA:725:G:C8	2.75	0.55
1:AA:977:A:C8	1:AA:1223:C:C4	2.94	0.55
2:AB:187:LEU:HD13	2:AB:187:LEU:O	2.06	0.55
13:AM:34:LEU:HD22	13:AM:39:ILE:O	2.07	0.55
23:B1:92:LYS:C	23:B1:94:LEU:H	2.14	0.55
28:B6:11:LEU:CD1	28:B6:51:GLU:HB2	2.37	0.55
28:B6:11:LEU:CD2	28:B6:26:ASN:H	2.19	0.55
30:B8:4:MET:SD	30:B8:61:LEU:CD1	2.93	0.55
31:BA:26:G:OP1	48:BW:80:PRO:HB3	2.07	0.55
31:BA:566:U:H2'	31:BA:567:A:O4'	2.07	0.55
31:BA:1665:A:H4'	40:BO:67:LYS:HB2	1.88	0.55
31:BA:1858:G:O2'	31:BA:1884:A:N6	2.39	0.55
31:BA:2223:G:H2'	31:BA:2224:G:C5'	2.33	0.55
31:BA:2258:C:H4'	31:BA:2259:G:OP2	2.06	0.55
31:BA:2500:U:H5"	31:BA:2501:C:OP2	2.07	0.55
31:BA:2802:G:H3'	31:BA:2802:G:P	2.47	0.55
39:BN:19:GLU:HG3	39:BN:20:GLY:N	2.14	0.55
44:BS:14:VAL:CG1	44:BS:15:ARG:H	2.03	0.55
47:BV:1:MET:HE1	47:BV:42:GLY:C	2.32	0.55
47:BV:43:GLU:H	47:BV:48:GLY:HA2	1.72	0.55
47:BV:71:LEU:HD13	47:BV:72:VAL:N	2.22	0.55
1:CA:78:G:H1	1:CA:91:C:H42	1.52	0.55
1:CA:116:A:H61	1:CA:313:A:H1'	1.71	0.55
1:CA:200:G:H1	1:CA:217:C:H42	1.55	0.55
1:CA:541:G:H2'	1:CA:542:G:H8	1.71	0.55
1:CA:616:G:N2	1:CA:617:G:C8	2.75	0.55
1:CA:758:G:O5'	1:CA:758:G:H8	1.90	0.55
2:CB:24:TRP:CG	2:CB:25:ASN:N	2.71	0.55
9:CI:118:LYS:O	9:CI:119:ALA:HB3	2.06	0.55
23:D1:21:ARG:NH1	31:DA:380:U:OP1	2.40	0.55
29:D7:19:ARG:HG2	29:D7:19:ARG:NH1	2.21	0.55
31:DA:530:G:O4'	31:DA:530:G:N3	2.35	0.55
31:DA:790:C:O2'	31:DA:791:C:H5'	2.06	0.55
31:DA:934:G:H2'	31:DA:935:C:C6	2.42	0.55
31:DA:1239:G:H2'	31:DA:1240:U:O4'	2.06	0.55
36:DG:16:ARG:NH1	36:DG:31:VAL:HG11	2.21	0.55
39:DN:78:TYR:HD1	39:DN:79:PRO:CG	2.20	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DP:135:LEU:HD21	41:DP:144:GLU:HG3	1.89	0.55
42:DQ:9:TYR:CD2	42:DQ:9:TYR:C	2.85	0.55
42:DQ:20:ALA:HA	42:DQ:98:LYS:HD3	1.89	0.55
42:DQ:140:ALA:CB	51:DZ:53:ILE:HG13	2.32	0.55
44:DS:19:LYS:HG2	44:DS:19:LYS:O	2.06	0.55
46:DU:91:ASP:O	46:DU:92:ARG:O	2.24	0.55
1:AA:116:A:H61	1:AA:313:A:H1'	1.70	0.55
1:AA:357:G:C2	1:AA:358:U:C5	2.95	0.55
1:AA:510:A:H5"	1:AA:511:C:P	2.47	0.55
1:AA:652:U:O4	1:AA:752:G:O2'	2.20	0.55
1:AA:791:G:C6	1:AA:792:A:N7	2.76	0.55
17:AQ:48:GLU:C	17:AQ:50:LYS:N	2.65	0.55
20:AT:14:LYS:O	20:AT:18:GLN:HG3	2.07	0.55
24:B2:26:ARG:HD2	24:B2:29:LYS:HE2	1.89	0.55
31:BA:92:A:H2'	31:BA:93:G:C8	2.41	0.55
31:BA:856:C:C6	31:BA:856:C:H5"	2.42	0.55
31:BA:1497:U:H2'	31:BA:1498:C:OP1	2.06	0.55
31:BA:1497:U:C2'	31:BA:1498:C:OP1	2.55	0.55
31:BA:1505:C:H2'	31:BA:1506:C:O5'	2.07	0.55
31:BA:1670:C:O2	34:BE:129:HIS:CE1	2.60	0.55
33:BD:72:LYS:HE3	33:BD:99:ASP:OD1	2.07	0.55
33:BD:83:GLU:HB2	33:BD:92:ILE:HD11	1.89	0.55
45:BT:28:VAL:HG22	45:BT:46:GLU:CA	2.36	0.55
45:BT:107:ASP:OD1	45:BT:109:GLU:HB2	2.07	0.55
47:BV:54:GLY:O	47:BV:56:SER:OG	2.20	0.55
48:BW:1:MET:CG	48:BW:64:MET:HE3	2.37	0.55
1:CA:668:G:O2'	15:CO:46:HIS:HD2	1.89	0.55
1:CA:832:C:O2'	1:CA:833:U:P	2.64	0.55
1:CA:976:G:P	14:CN:32:SER:H	2.30	0.55
1:CA:1226:C:H2'	13:CM:103:THR:OG1	2.07	0.55
1:CA:1369:C:H2'	1:CA:1370:G:O4'	2.07	0.55
1:CA:1411:C:O2'	1:CA:1412:C:H5'	2.07	0.55
3:CC:116:VAL:HG21	3:CC:202:ILE:HD11	1.89	0.55
4:CD:12:CYS:HA	4:CD:19:LEU:CD1	2.36	0.55
5:CE:101:ILE:O	5:CE:120:THR:HG23	2.07	0.55
10:CJ:38:ILE:HD11	10:CJ:71:LEU:HB3	1.89	0.55
10:CJ:49:VAL:HG13	14:CN:41:ARG:HB2	1.89	0.55
15:CO:55:GLY:HA2	15:CO:58:MET:HE3	1.87	0.55
18:CR:35:ARG:O	18:CR:37:VAL:N	2.37	0.55
28:D6:12:GLU:HB3	28:D6:23:THR:CG2	2.37	0.55
28:D6:12:GLU:HA	28:D6:23:THR:HA	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:225:A:H2'	31:DA:226:G:H5'	1.89	0.55
31:DA:643:A:C2'	31:DA:644:A:O5'	2.55	0.55
31:DA:767:U:O2'	31:DA:768:G:H5'	2.07	0.55
31:DA:1190:G:H5'	41:DP:35:HIS:CA	2.36	0.55
31:DA:1339:G:N2	31:DA:1603:A:H1'	2.21	0.55
31:DA:2272:U:C5'	31:DA:2273:A:OP1	2.55	0.55
31:DA:2418:A:H2'	31:DA:2419:U:H6	1.72	0.55
32:DB:33:G:O2'	32:DB:34:U:H5'	2.07	0.55
33:DD:82:ILE:O	33:DD:82:ILE:HG22	2.05	0.55
38:DI:35:LEU:O	38:DI:36:ALA:HB2	2.06	0.55
41:DP:73:GLY:O	41:DP:74:GLU:C	2.50	0.55
1:AA:33:A:H2'	1:AA:34:C:H6	1.71	0.54
1:AA:501:C:O2'	1:AA:502:G:H5'	2.07	0.54
1:AA:832:C:O2'	1:AA:833:U:P	2.64	0.54
1:AA:1152:A:H5"	10:AJ:13:HIS:CD2	2.42	0.54
1:AA:1481:U:H2'	1:AA:1482:G:C8	2.42	0.54
2:AB:15:VAL:C	2:AB:16:HIS:CG	2.85	0.54
2:AB:29:ALA:C	2:AB:31:TYR:H	2.13	0.54
4:AD:12:CYS:HA	4:AD:19:LEU:CD1	2.36	0.54
4:AD:12:CYS:N	4:AD:19:LEU:HD11	2.22	0.54
4:AD:57:ARG:HH22	5:AE:107:ARG:HD3	1.72	0.54
5:AE:102:ALA:HB1	5:AE:106:PRO:CG	2.36	0.54
8:AH:77:GLU:HG3	8:AH:78:GLN:H	1.72	0.54
24:B2:48:HIS:O	24:B2:48:HIS:CG	2.60	0.54
25:B3:18:ASP:HB2	25:B3:49:LYS:CE	2.36	0.54
27:B5:4:HIS:HB3	27:B5:5:PRO:CD	2.35	0.54
31:BA:70:G:H21	31:BA:71:A:N6	2.04	0.54
31:BA:569:U:C4	31:BA:570:G:C6	2.95	0.54
31:BA:745:G:OP1	34:BE:133:LYS:HE3	2.06	0.54
31:BA:1416:G:O2'	31:BA:1417:C:P	2.66	0.54
31:BA:2286:A:H5"	31:BA:2287:A:O4'	2.06	0.54
32:BB:40:U:H3	32:BB:43:C:H5"	1.72	0.54
33:BD:58:HIS:CD2	33:BD:59:LYS:O	2.60	0.54
37:BH:153:LYS:N	37:BH:153:LYS:CD	2.69	0.54
39:BN:30:ILE:O	39:BN:34:LEU:HD22	2.07	0.54
44:BS:33:LYS:HB3	44:BS:34:HIS:CD2	2.41	0.54
45:BT:78:LEU:O	45:BT:78:LEU:CD2	2.56	0.54
51:BZ:151:HIS:O	51:BZ:152:ALA:O	2.25	0.54
1:CA:346:G:H5"	45:DT:41:ARG:NH2	2.22	0.54
1:CA:949:A:N6	1:CA:1232:U:H3	2.01	0.54
6:CF:97:PHE:O	18:CR:31:LEU:HD23	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:73:MET:HA	7:CG:91:VAL:HG23	1.89	0.54
9:CI:4:TYR:CD2	9:CI:59:PHE:HE2	2.25	0.54
11:CK:21:ILE:HB	11:CK:84:VAL:HG12	1.88	0.54
20:CT:26:ASN:HB3	20:CT:71:THR:OG1	2.07	0.54
24:D2:49:LYS:NZ	24:D2:53:LEU:HD22	2.22	0.54
28:D6:32:ASN:O	28:D6:33:LYS:HG2	2.07	0.54
29:D7:34:ARG:NH1	29:D7:39:ARG:CG	2.70	0.54
30:D8:4:MET:HE1	31:DA:593:G:C1'	2.37	0.54
31:DA:1001:A:H2'	31:DA:1002:G:O4'	2.06	0.54
31:DA:2301:C:H2'	31:DA:2302:G:O4'	2.07	0.54
31:DA:2580:U:C5'	34:DE:131:ALA:HB3	2.35	0.54
33:DD:25:THR:O	33:DD:27:THR:HB	2.06	0.54
39:DN:129:PRO:O	39:DN:130:HIS:CB	2.55	0.54
40:DO:107:ARG:HE	40:DO:115:VAL:HG11	1.71	0.54
47:DV:18:LEU:HD22	47:DV:19:LYS:CA	2.30	0.54
1:AA:119:A:H4'	1:AA:120:A:O5'	2.07	0.54
1:AA:377:G:OP1	16:AP:3:LYS:HD2	2.07	0.54
1:AA:436:C:H5"	4:AD:156:GLU:OE2	2.07	0.54
1:AA:561:U:O2'	1:AA:562:C:P	2.65	0.54
1:AA:976:G:C5'	1:AA:1358:U:O2'	2.56	0.54
1:AA:1132:C:H2'	1:AA:1133:G:O4'	2.07	0.54
4:AD:150:GLU:CD	4:AD:150:GLU:H	2.15	0.54
5:AE:15:ARG:HD2	5:AE:26:PHE:CD2	2.42	0.54
5:AE:41:VAL:HG13	5:AE:113:ALA:HA	1.89	0.54
6:AF:19:LEU:O	6:AF:23:LYS:HG3	2.08	0.54
7:AG:145:ALA:O	7:AG:147:ALA:N	2.39	0.54
27:B5:51:TYR:H	27:B5:54:GLY:HA3	1.71	0.54
31:BA:515:A:H1'	31:BA:581:C:H1'	1.89	0.54
31:BA:580:C:H2'	31:BA:581:C:C6	2.42	0.54
31:BA:720:C:O2'	31:BA:721:C:H5'	2.07	0.54
31:BA:856:C:C3'	31:BA:857:C:H6	2.20	0.54
31:BA:1050:A:C2	31:BA:2751:G:C4	2.94	0.54
31:BA:1495:A:N3	31:BA:1495:A:H2'	2.22	0.54
31:BA:1717:G:C2	31:BA:1718:G:C8	2.95	0.54
35:BF:83:PHE:O	35:BF:84:VAL:HG23	2.07	0.54
43:BR:2:ARG:HD2	43:BR:2:ARG:N	2.22	0.54
49:BX:41:ASN:HA	49:BX:44:GLU:CB	2.37	0.54
1:CA:119:A:H4'	1:CA:120:A:O5'	2.05	0.54
1:CA:327:A:C4	1:CA:329:A:C8	2.95	0.54
1:CA:341:C:O2'	1:CA:342:C:H5'	2.07	0.54
1:CA:475:G:O2'	1:CA:476:G:H5'	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:946:A:H2'	1:CA:947:G:C8	2.41	0.54
1:CA:1346:A:H5"	9:CI:120:ARG:HH12	1.72	0.54
1:CA:1452:C:H5'	1:CA:1456:G:C5	2.42	0.54
3:CC:105:GLU:HG2	3:CC:106:VAL:H	1.72	0.54
10:CJ:8:LEU:HG	10:CJ:96:ILE:CG2	2.37	0.54
11:CK:20:TYR:C	11:CK:21:ILE:HD12	2.32	0.54
11:CK:81:ASP:CG	11:CK:106:LYS:HG2	2.33	0.54
12:CL:84:LEU:HD22	12:CL:85:ILE:H	1.73	0.54
15:CO:39:LEU:HD11	15:CO:56:LEU:HB2	1.89	0.54
15:CO:43:LEU:C	15:CO:45:VAL:N	2.65	0.54
15:CO:54:ARG:HG2	15:CO:58:MET:CE	2.38	0.54
19:CS:63:THR:HG22	19:CS:66:MET:HE3	1.88	0.54
22:D0:74:ARG:HG2	32:DB:12:C:O2'	2.07	0.54
23:D1:19:GLN:CG	23:D1:44:PRO:HG3	2.37	0.54
28:D6:15:GLU:OE2	28:D6:41:PRO:CG	2.54	0.54
31:DA:753:C:H6	31:DA:753:C:O5'	1.90	0.54
31:DA:856:C:C6	31:DA:856:C:H5"	2.42	0.54
31:DA:1015:G:C2'	31:DA:1016:G:H5'	2.37	0.54
31:DA:1016:G:H2'	31:DA:1017:G:H8	1.71	0.54
31:DA:1396:U:O2	31:DA:1396:U:C2'	2.49	0.54
31:DA:1797:C:H2'	31:DA:1798:U:H5'	1.89	0.54
31:DA:2094:G:P	38:DI:22:LYS:HD3	2.46	0.54
31:DA:2335:A:N7	31:DA:2337:G:C5	2.76	0.54
36:DG:12:TYR:HA	36:DG:16:ARG:HG3	1.89	0.54
36:DG:123:ASN:O	36:DG:126:ASP:HB2	2.07	0.54
38:DI:92:VAL:HG22	38:DI:92:VAL:O	2.07	0.54
42:DQ:34:LEU:HD11	42:DQ:129:THR:CB	2.36	0.54
43:DR:67:LEU:HD13	43:DR:76:VAL:HG21	1.88	0.54
44:DS:74:ALA:HB1	44:DS:103:GLU:HB2	1.88	0.54
45:DT:13:ARG:HH21	45:DT:15:VAL:HG11	1.72	0.54
46:DU:64:ARG:CZ	46:DU:64:ARG:CA	2.71	0.54
46:DU:83:LEU:CG	46:DU:88:ILE:HG12	2.38	0.54
48:DW:2:GLU:OE1	48:DW:72:LYS:NZ	2.40	0.54
1:AA:343:U:C2'	1:AA:346:G:O6	2.55	0.54
2:AB:218:ALA:O	2:AB:222:ILE:HG13	2.07	0.54
18:AR:76:LEU:N	18:AR:76:LEU:HD23	2.23	0.54
24:B2:49:LYS:NZ	24:B2:53:LEU:HD22	2.23	0.54
30:B8:35:GLN:OE1	31:BA:2421:G:OP2	2.25	0.54
31:BA:143:G:C1'	49:BX:38:GLU:HG3	2.36	0.54
31:BA:196:A:N3	31:BA:196:A:H2'	2.23	0.54
31:BA:243:U:C2'	31:BA:244:A:H5'	2.37	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:330:A:HO2'	31:BA:331:A:H8	1.54	0.54
31:BA:528:A:C2	31:BA:2043:C:H5'	2.41	0.54
31:BA:643:A:C2'	31:BA:644:A:O5'	2.54	0.54
31:BA:943:U:OP2	41:BP:38:GLN:OE1	2.25	0.54
31:BA:1744:C:C2'	31:BA:1745:C:H5'	2.37	0.54
31:BA:2469:A:O2'	42:BQ:56:ARG:HG2	2.07	0.54
31:BA:2810:A:H2'	34:BE:61:ARG:HH21	1.72	0.54
32:BB:82:G:H2'	32:BB:83:G:H5'	1.88	0.54
33:BD:31:LYS:O	33:BD:32:SER:C	2.50	0.54
34:BE:1:MET:H1	34:BE:1:MET:HE2	1.72	0.54
34:BE:93:VAL:C	34:BE:95:ILE:N	2.64	0.54
42:BQ:23:GLY:O	42:BQ:100:GLY:CA	2.55	0.54
43:BR:44:LEU:O	43:BR:45:ARG:C	2.49	0.54
44:BS:71:ARG:N	44:BS:101:LEU:HD21	2.22	0.54
47:BV:64:HIS:O	47:BV:64:HIS:CG	2.59	0.54
49:BX:36:LYS:O	49:BX:38:GLU:N	2.41	0.54
49:BX:60:ARG:HG2	49:BX:72:LYS:H	1.71	0.54
50:BY:17:SER:HA	50:BY:71:LYS:CD	2.31	0.54
1:CA:52:G:C2'	1:CA:53:A:H5'	2.37	0.54
1:CA:436:C:H5"	4:CD:156:GLU:OE2	2.07	0.54
1:CA:586:C:H2'	1:CA:587:G:H5'	1.88	0.54
1:CA:652:U:O4	1:CA:752:G:O2'	2.25	0.54
1:CA:828:A:H2'	1:CA:829:G:O4'	2.06	0.54
1:CA:1502:A:H5'	1:CA:1504:G:N7	2.21	0.54
5:CE:113:ALA:HB3	5:CE:115:VAL:HG23	1.88	0.54
23:D1:13:ILE:HD13	23:D1:14:VAL:O	2.08	0.54
27:D5:57:VAL:CB	27:D5:58:LEU:HD12	2.29	0.54
30:D8:32:LEU:CB	30:D8:35:GLN:N	2.48	0.54
30:D8:39:LYS:NZ	30:D8:40:GLU:HA	2.22	0.54
31:DA:58:G:OP1	49:DX:72:LYS:HA	2.07	0.54
31:DA:271(A):A:H2	31:DA:272(D):G:N3	2.05	0.54
31:DA:363(E):U:H2'	31:DA:363(F):A:O4'	2.07	0.54
31:DA:414:C:C2'	31:DA:415:A:H5'	2.37	0.54
31:DA:971:C:H2'	31:DA:972:G:C5'	2.37	0.54
31:DA:1437:C:H6	31:DA:1437:C:H5"	1.72	0.54
31:DA:1441:G:H2'	31:DA:1442:G:H8	1.71	0.54
31:DA:2402:C:C3'	31:DA:2403:C:H5'	2.38	0.54
31:DA:2496:C:OP1	42:DQ:81:VAL:HG13	2.06	0.54
31:DA:2590:A:H2'	31:DA:2591:C:C6	2.42	0.54
35:DF:4:VAL:HG13	35:DF:17:ARG:HB3	1.89	0.54
37:DH:105:LEU:N	37:DH:105:LEU:HD13	2.22	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DN:17:ASP:CG	39:DN:17:ASP:O	2.51	0.54
39:DN:24:GLY:H	39:DN:27:ALA:H	1.56	0.54
42:DQ:30:GLY:HA3	42:DQ:107:ALA:HB2	1.88	0.54
44:DS:78:LEU:CD1	44:DS:103:GLU:HB3	2.36	0.54
50:DY:28:LYS:HB2	50:DY:38:ILE:N	2.23	0.54
50:DY:41:GLY:O	50:DY:42:VAL:C	2.49	0.54
51:DZ:63:ASP:O	51:DZ:65:GLN:HG2	2.08	0.54
1:AA:189(B):C:N4	1:AA:189(I):G:H1	2.04	0.54
1:AA:373:A:C2	1:AA:374:A:C8	2.96	0.54
1:AA:472:A:O2'	16:AP:81:ARG:HA	2.07	0.54
1:AA:1423:G:C5'	40:BO:49:ARG:NH2	2.70	0.54
2:AB:87:ARG:HH21	2:AB:233:SER:HB3	1.72	0.54
2:AB:189:ASP:OD1	2:AB:205:ASP:HB3	2.07	0.54
5:AE:45:PHE:CD2	5:AE:47:LYS:HD2	2.42	0.54
5:AE:113:ALA:HB3	5:AE:115:VAL:HG23	1.88	0.54
8:AH:53:VAL:O	8:AH:54:ASP:HB2	2.08	0.54
23:B1:23:LYS:HB2	23:B1:37:ILE:HG22	1.88	0.54
31:BA:1140:C:O3'	39:BN:25:ARG:NH1	2.41	0.54
31:BA:1142:U:H5"	31:BA:1142(A):A:H5"	1.90	0.54
31:BA:1625:C:C2'	31:BA:1626:G:H5'	2.38	0.54
35:BF:29:ASN:O	35:BF:30:PRO:C	2.50	0.54
36:BG:31:VAL:HG13	36:BG:32:PRO:HD2	1.89	0.54
37:BH:153:LYS:HB2	37:BH:154:PRO:CD	2.38	0.54
39:BN:2:LYS:HZ3	46:BU:94:ASN:ND2	2.06	0.54
39:BN:46:VAL:O	39:BN:47:ALA:HB3	2.06	0.54
39:BN:78:TYR:CE1	39:BN:79:PRO:HB3	2.41	0.54
41:BP:16:ARG:CZ	41:BP:18:ARG:HB2	2.37	0.54
41:BP:38:GLN:CG	41:BP:39:LYS:H	2.14	0.54
42:BQ:23:GLY:HA3	42:BQ:99:PRO:O	2.07	0.54
44:BS:31:SER:HB3	44:BS:34:HIS:H	1.73	0.54
47:BV:25:LEU:N	47:BV:94:LEU:CD1	2.69	0.54
48:BW:37:ARG:HG2	48:BW:38:TYR:CE2	2.42	0.54
48:BW:80:PRO:O	48:BW:100:THR:HG21	2.08	0.54
1:CA:299:G:C6	1:CA:300:A:C6	2.95	0.54
1:CA:377:G:OP1	16:CP:3:LYS:HD2	2.07	0.54
1:CA:434:U:H2'	1:CA:435:C:C6	2.43	0.54
1:CA:1058:G:C6	1:CA:1059:C:N3	2.76	0.54
6:CF:61:LEU:HB3	6:CF:63:TYR:HE2	1.73	0.54
7:CG:69:VAL:HG13	7:CG:134:ALA:O	2.08	0.54
9:CI:28:VAL:HA	9:CI:63:ILE:O	2.07	0.54
18:CR:25:THR:HG22	18:CR:42:ARG:HH11	1.73	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:59:SER:H	18:CR:62:GLU:CD	2.14	0.54
19:CS:79:THR:O	19:CS:80:TYR:CB	2.55	0.54
30:D8:31:HIS:CD2	31:DA:2419:U:O4	2.61	0.54
31:DA:26:G:OP1	48:DW:80:PRO:HB3	2.07	0.54
31:DA:84:A:N6	31:DA:102:G:H1'	2.21	0.54
31:DA:443:A:N7	35:DF:45:ARG:HG2	2.22	0.54
31:DA:528:A:C2	31:DA:2043:C:C5'	2.91	0.54
31:DA:1786:A:C1'	31:DA:1938:A:N6	2.70	0.54
31:DA:2206:G:H3'	31:DA:2206:G:N3	2.23	0.54
38:DI:49:ALA:O	38:DI:52:ARG:HG2	2.08	0.54
38:DI:69:LYS:HG3	38:DI:135:GLU:O	2.08	0.54
39:DN:24:GLY:O	39:DN:28:THR:HB	2.07	0.54
41:DP:16:ARG:CD	41:DP:18:ARG:HB2	2.37	0.54
47:DV:1:MET:CE	47:DV:44:LYS:H	2.20	0.54
51:DZ:48:PHE:O	51:DZ:52:SER:N	2.40	0.54
51:DZ:150:LEU:C	51:DZ:151:HIS:CD2	2.85	0.54
1:AA:147:G:N2	1:AA:148:G:H1'	2.22	0.54
1:AA:264:U:O2'	17:AQ:64:PRO:HB2	2.08	0.54
1:AA:355:C:C4	1:AA:356:A:N7	2.75	0.54
1:AA:438:G:O2'	1:AA:493:G:C2	2.59	0.54
2:AB:114:ARG:O	2:AB:118:LEU:HG	2.08	0.54
5:AE:12:LEU:CD1	5:AE:31:LEU:HB2	2.38	0.54
10:AJ:29:ARG:HG2	10:AJ:29:ARG:O	2.08	0.54
12:AL:46:LYS:HG2	12:AL:47:LYS:N	2.23	0.54
24:B2:14:ARG:O	24:B2:18:PRO:CD	2.53	0.54
31:BA:84:A:N6	31:BA:102:G:H1'	2.22	0.54
31:BA:271(L):U:H4'	31:BA:271(M):G:N7	2.23	0.54
31:BA:838:C:O2'	31:BA:839:U:H5'	2.06	0.54
31:BA:993:G:H1'	47:BV:91:TYR:CE1	2.43	0.54
31:BA:1437:C:H6	31:BA:1437:C:H5"	1.73	0.54
31:BA:2208:A:O2'	31:BA:2219:G:C8	2.57	0.54
33:BD:70:TRP:C	33:BD:70:TRP:CD1	2.85	0.54
33:BD:182:LEU:O	33:BD:271:ILE:HD12	2.08	0.54
34:BE:93:VAL:N	34:BE:95:ILE:HD13	2.09	0.54
35:BF:51:THR:CG2	35:BF:92:PRO:HD2	2.37	0.54
39:BN:44:PRO:HD3	46:BU:60:LEU:HD21	1.90	0.54
39:BN:78:TYR:CD1	39:BN:79:PRO:HB3	2.42	0.54
41:BP:16:ARG:C	41:BP:16:ARG:HH11	2.15	0.54
42:BQ:54:MET:HG3	42:BQ:117:ALA:HB1	1.89	0.54
44:BS:95:HIS:CD2	44:BS:96:GLY:H	2.26	0.54
50:BY:83:THR:HG23	50:BY:94:LYS:HB3	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:433:C:O2'	1:CA:434:U:H5'	2.08	0.54
1:CA:719:C:O2'	18:CR:49:LYS:HB3	2.07	0.54
1:CA:724:G:C2	1:CA:725:G:C8	2.96	0.54
1:CA:1428:A:H2'	1:CA:1429:C:C6	2.42	0.54
7:CG:150:ALA:HB2	11:CK:50:TYR:OH	2.06	0.54
15:CO:18:PHE:O	15:CO:19:PRO:C	2.51	0.54
16:CP:70:ALA:O	16:CP:74:LEU:HD12	2.08	0.54
17:CQ:76:LEU:HD12	17:CQ:77:VAL:H	1.73	0.54
22:D0:51:VAL:HG21	22:D0:79:VAL:O	2.08	0.54
27:D5:51:TYR:H	27:D5:54:GLY:HA3	1.73	0.54
31:DA:2845:G:O2'	31:DA:2846:G:H5'	2.08	0.54
33:DD:30:GLU:CG	33:DD:63:ARG:NE	2.69	0.54
33:DD:49:ILE:HD13	33:DD:49:ILE:O	2.07	0.54
34:DE:10:GLY:HA3	45:DT:8:LYS:HZ1	1.72	0.54
35:DF:88:VAL:HG11	35:DF:91:GLY:HA3	1.90	0.54
37:DH:43:VAL:HG12	37:DH:53:GLU:HB2	1.89	0.54
38:DI:52:ARG:CG	38:DI:53:ALA:H	2.21	0.54
39:DN:1:MET:C	39:DN:2:LYS:HG3	2.32	0.54
39:DN:2:LYS:NZ	46:DU:94:ASN:HD21	2.06	0.54
39:DN:68:GLU:HA	39:DN:86:PRO:CB	2.37	0.54
41:DP:59:LEU:CA	41:DP:61:ARG:NH1	2.57	0.54
47:DV:35:LEU:HB2	47:DV:59:ALA:HB1	1.88	0.54
47:DV:72:VAL:HG13	47:DV:88:ARG:NH2	2.22	0.54
49:DX:82:GLN:HG3	49:DX:83:VAL:N	2.21	0.54
1:AA:408:A:H4'	4:AD:112:VAL:HG11	1.89	0.54
1:AA:731:G:OP1	1:AA:766:A:H1'	2.07	0.54
1:AA:930:C:O2'	1:AA:931:C:H5'	2.08	0.54
1:AA:1228:C:H5"	13:AM:108:ARG:NH2	2.22	0.54
1:AA:1423:G:H2'	1:AA:1424:C:C6	2.43	0.54
1:AA:1498:U:H1'	1:AA:1499:A:OP2	2.08	0.54
2:AB:166:ASP:HB3	2:AB:169:LYS:HB2	1.88	0.54
12:AL:83:VAL:HG22	12:AL:84:LEU:N	2.23	0.54
28:B6:32:ASN:O	28:B6:33:LYS:HG2	2.08	0.54
31:BA:547:A:O2'	31:BA:548:A:OP2	2.25	0.54
31:BA:627:A:C6	31:BA:637:A:C8	2.95	0.54
31:BA:1042:G:C5'	31:BA:1043:C:OP2	2.56	0.54
31:BA:1043:C:O2'	31:BA:1044:G:C8	2.56	0.54
31:BA:1657:C:H2'	31:BA:1658:C:H6	1.72	0.54
31:BA:2564:A:OP1	31:BA:2648:C:H4'	2.08	0.54
31:BA:2661:G:P	31:BA:2661:G:O4'	2.65	0.54
31:BA:2753:A:C2	31:BA:2754:U:C2	2.96	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:149:PRO:O	33:BD:150:LYS:HB2	2.08	0.54
33:BD:253:GLN:HB3	33:BD:255:LYS:CE	2.38	0.54
41:BP:45:LEU:HD22	41:BP:46:LYS:H	1.73	0.54
41:BP:64:LYS:O	41:BP:64:LYS:HD3	2.08	0.54
41:BP:143:GLY:CA	41:BP:145:PRO:HD3	2.38	0.54
45:BT:89:VAL:HG12	45:BT:91:ARG:HB3	1.88	0.54
49:BX:18:TYR:O	49:BX:19:ALA:C	2.50	0.54
51:BZ:48:PHE:O	51:BZ:52:SER:N	2.40	0.54
1:CA:1157:A:C4	1:CA:1181:G:N2	2.76	0.54
5:CE:12:LEU:CD1	5:CE:31:LEU:HB2	2.37	0.54
12:CL:46:LYS:HG2	12:CL:47:LYS:N	2.23	0.54
15:CO:24:SER:O	15:CO:28:GLN:HG3	2.08	0.54
16:CP:82:GLN:N	16:CP:82:GLN:HE21	2.05	0.54
17:CQ:27:PHE:CZ	17:CQ:36:ILE:HD11	2.43	0.54
25:D3:8:LEU:HD13	25:D3:31:LEU:HA	1.89	0.54
26:D4:25:TYR:C	26:D4:27:THR:N	2.66	0.54
31:DA:848:G:C2	31:DA:933:A:H1'	2.43	0.54
31:DA:964:C:O2'	31:DA:2273:A:H1'	2.07	0.54
31:DA:999:U:C2'	31:DA:1000:A:H5'	2.37	0.54
31:DA:1900:A:N1	31:DA:1970:A:C6	2.76	0.54
31:DA:2317:C:O2	31:DA:2318:G:O4'	2.26	0.54
33:DD:35:LYS:NZ	33:DD:104:TYR:CD1	2.73	0.54
34:DE:75:VAL:C	34:DE:77:ILE:N	2.64	0.54
35:DF:154:VAL:HG22	35:DF:191:ARG:HB2	1.90	0.54
39:DN:4:TYR:N	39:DN:4:TYR:CD1	2.73	0.54
39:DN:51:PHE:O	39:DN:119:ARG:O	2.25	0.54
45:DT:64:ARG:NH1	45:DT:103:ARG:HA	2.22	0.54
47:DV:51:VAL:CG1	47:DV:52:VAL:N	2.70	0.54
51:DZ:97:GLU:HB3	51:DZ:125:LEU:HD21	1.88	0.54
1:AA:679:C:O2'	1:AA:680:C:H5'	2.08	0.54
1:AA:741:G:H2'	1:AA:742:G:O4'	2.07	0.54
2:AB:168:THR:HG21	2:AB:192:SER:HA	1.88	0.54
6:AF:52:ILE:O	6:AF:53:ALA:HB3	2.06	0.54
11:AK:81:ASP:CG	11:AK:106:LYS:HG2	2.32	0.54
26:B4:25:TYR:C	26:B4:27:THR:N	2.63	0.54
28:B6:40:CYS:SG	28:B6:45:LYS:NZ	2.61	0.54
31:BA:414:C:C2'	31:BA:415:A:H5'	2.37	0.54
31:BA:442:G:O4'	35:BF:46:ARG:HD3	2.08	0.54
31:BA:513:A:C2	31:BA:514:A:C5	2.96	0.54
31:BA:1486:A:H2'	31:BA:1487:G:H8	1.72	0.54
31:BA:1504:C:O2'	31:BA:1505:C:O5'	2.25	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1568:G:H21	33:BD:58:HIS:HE1	1.56	0.54
32:BB:33:G:O2'	32:BB:34:U:H5'	2.08	0.54
35:BF:199:TRP:CZ3	35:BF:203:GLN:HG3	2.43	0.54
36:BG:12:TYR:HA	36:BG:16:ARG:HG3	1.90	0.54
41:BP:47:ASP:OD1	41:BP:49:ARG:HB2	2.07	0.54
43:BR:41:ALA:HB1	43:BR:114:VAL:CG2	2.38	0.54
49:BX:37:THR:HG23	49:BX:54:VAL:CG2	2.38	0.54
50:BY:37:VAL:CG2	50:BY:67:LEU:HB3	2.38	0.54
1:CA:592:G:H2'	1:CA:593:G:H8	1.73	0.54
1:CA:1510:U:H2'	1:CA:1511:G:C8	2.42	0.54
4:CD:57:ARG:HH22	5:CE:107:ARG:HD3	1.71	0.54
7:CG:27:ILE:HD11	7:CG:43:PHE:CD2	2.42	0.54
7:CG:32:ARG:O	7:CG:33:ASP:HB2	2.08	0.54
23:D1:19:GLN:NE2	31:DA:379:G:N2	2.44	0.54
27:D5:36:CYS:C	27:D5:38:ALA:N	2.66	0.54
31:DA:513:A:C2	31:DA:514:A:C5	2.95	0.54
31:DA:586:A:H2'	41:DP:33:ARG:HH12	1.73	0.54
31:DA:2183:C:H2'	31:DA:2184:G:C8	2.43	0.54
31:DA:2199:A:H3'	31:DA:2200:C:C6	2.39	0.54
31:DA:2494:G:C2'	31:DA:2495:G:O5'	2.56	0.54
31:DA:2534:A:C2	31:DA:2535:G:H1'	2.43	0.54
35:DF:68:LYS:O	35:DF:68:LYS:HG3	2.06	0.54
36:DG:60:LEU:HD13	36:DG:60:LEU:C	2.32	0.54
40:DO:3:GLN:CB	40:DO:4:PRO:HD2	2.38	0.54
42:DQ:43:THR:OG1	42:DQ:46:GLN:HG3	2.08	0.54
42:DQ:103:MET:HB2	42:DQ:104:PHE:CD1	2.42	0.54
1:AA:228:A:H2'	1:AA:229:U:O4'	2.08	0.54
1:AA:303:A:C5	1:AA:304:U:C5	2.95	0.54
1:AA:1423:G:H2'	1:AA:1424:C:H6	1.73	0.54
2:AB:74:LYS:HZ2	2:AB:76:GLN:HB2	1.72	0.54
2:AB:189:ASP:OD2	2:AB:205:ASP:OD1	2.25	0.54
3:AC:36:ASP:HB3	3:AC:40:ARG:HH12	1.73	0.54
4:AD:31:CYS:SG	4:AD:31:CYS:O	2.65	0.54
6:AF:75:LEU:CD2	6:AF:79:LEU:HD11	2.37	0.54
12:AL:47:LYS:HB3	12:AL:48:PRO:CD	2.28	0.54
19:AS:6:LYS:H	19:AS:6:LYS:HD2	1.72	0.54
27:B5:11:THR:CG2	31:BA:1264:G:H5'	2.37	0.54
27:B5:54:GLY:O	27:B5:56:LYS:NZ	2.37	0.54
31:BA:154(A):C:H5	31:BA:171:G:N1	2.05	0.54
31:BA:175:G:H5'	31:BA:175:G:C8	2.43	0.54
31:BA:284:U:H2'	31:BA:285:C:H6	1.72	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:795:C:O2'	31:BA:796:C:H5'	2.07	0.54
31:BA:1766:U:O2'	31:BA:1767:C:H5'	2.08	0.54
31:BA:1833:U:O2'	31:BA:1969:A:N1	2.38	0.54
31:BA:2065:C:H2'	31:BA:2066:C:C6	2.43	0.54
31:BA:2876:G:H4'	45:BT:3:ARG:NE	2.23	0.54
32:BB:15:A:H5'	32:BB:16:G:H8	1.70	0.54
33:BD:25:THR:O	33:BD:27:THR:HB	2.07	0.54
34:BE:117:MET:O	34:BE:117:MET:CG	2.55	0.54
34:BE:201:THR:HG22	34:BE:202:LYS:H	1.73	0.54
39:BN:24:GLY:H	39:BN:27:ALA:H	1.56	0.54
45:BT:31:SER:C	45:BT:32:TYR:HD2	2.14	0.54
45:BT:32:TYR:HB3	45:BT:81:PRO:HB2	1.90	0.54
47:BV:72:VAL:HA	47:BV:88:ARG:NH2	2.21	0.54
47:BV:96:ILE:HG23	47:BV:97:LYS:H	1.73	0.54
50:BY:16:ALA:HA	50:BY:21:LYS:HD2	1.89	0.54
50:BY:60:PHE:HA	50:BY:62:GLU:OE2	2.08	0.54
51:BZ:108:PRO:O	51:BZ:109:ALA:C	2.51	0.54
1:CA:408:A:H4'	4:CD:112:VAL:HG11	1.89	0.54
1:CA:559:A:H4'	1:CA:560:U:C5'	2.37	0.54
1:CA:664:G:H22	1:CA:741:G:H1	1.56	0.54
1:CA:973:G:C3'	1:CA:974:A:H5"	2.36	0.54
1:CA:1003:G:N2	1:CA:1039:C:C2	2.76	0.54
1:CA:1132:C:H2'	1:CA:1133:G:O4'	2.08	0.54
1:CA:1228:C:H5"	13:CM:108:ARG:NH2	2.22	0.54
2:CB:102:LEU:N	2:CB:102:LEU:CD1	2.71	0.54
2:CB:124:SER:OG	2:CB:125:PRO:HD2	2.08	0.54
4:CD:108:LEU:CD1	4:CD:174:LEU:HD13	2.37	0.54
4:CD:206:PHE:HD2	4:CD:207:TYR:CD2	2.26	0.54
5:CE:80:ILE:CG1	5:CE:91:LEU:HB2	2.37	0.54
15:CO:8:LYS:O	15:CO:12:ILE:HG13	2.07	0.54
20:CT:10:LEU:O	20:CT:12:ALA:N	2.41	0.54
28:D6:46:HIS:ND1	31:DA:2371:G:O2'	2.39	0.54
31:DA:154(A):C:H5	31:DA:171:G:H1	1.56	0.54
31:DA:322:A:OP2	35:DF:169:ASN:HB2	2.08	0.54
31:DA:601:C:O2	31:DA:605:C:H4'	2.07	0.54
31:DA:1042:G:C5'	31:DA:1043:C:OP2	2.56	0.54
31:DA:1171:G:N7	31:DA:1173:G:H1'	2.23	0.54
31:DA:1493:C:C4	31:DA:2206:G:O2'	2.60	0.54
31:DA:1515:G:H2'	31:DA:1516:C:H6	1.72	0.54
31:DA:1712:C:H2'	31:DA:1713:U:H6	1.73	0.54
31:DA:2701:C:C3'	31:DA:2702:U:C5'	2.72	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2884:U:C2'	31:DA:2885:C:H5'	2.38	0.54
32:DB:2:C:H2'	32:DB:3:C:H6	1.72	0.54
32:DB:56:G:H5'	36:DG:27:ASN:ND2	2.22	0.54
32:DB:73:A:C4	32:DB:105:A:C2	2.95	0.54
34:DE:92:THR:O	34:DE:93:VAL:HB	2.07	0.54
35:DF:65:TRP:CH2	35:DF:75:HIS:HD2	2.26	0.54
36:DG:82:LEU:C	36:DG:83:ARG:HG3	2.32	0.54
37:DH:66:GLY:CA	37:DH:69:ARG:HB2	2.38	0.54
39:DN:32:THR:O	39:DN:35:ARG:O	2.25	0.54
39:DN:58:ASP:O	39:DN:60:ILE:N	2.40	0.54
39:DN:120:LEU:HD13	39:DN:121:LYS:N	2.23	0.54
42:DQ:16:ARG:HB2	42:DQ:16:ARG:HH11	1.73	0.54
45:DT:66:VAL:HA	45:DT:71:GLY:HA2	1.89	0.54
45:DT:78:LEU:O	45:DT:79:HIS:CG	2.61	0.54
46:DU:104:GLN:HB2	47:DV:43:GLU:OE2	2.07	0.54
1:AA:357:G:C2	1:AA:358:U:C6	2.95	0.54
1:AA:503:C:H2'	1:AA:504:C:C6	2.43	0.54
1:AA:616:G:N2	1:AA:617:G:C8	2.76	0.54
1:AA:1003:G:C2	1:AA:1004:A:H1'	2.42	0.54
1:AA:1048:G:OP1	14:AN:4:LYS:HB2	2.08	0.54
1:AA:1291:G:H4'	9:AI:38:GLN:O	2.07	0.54
4:AD:75:PHE:O	4:AD:78:LEU:HB2	2.08	0.54
6:AF:73:ASN:O	6:AF:76:ALA:HB3	2.08	0.54
7:AG:27:ILE:HD11	7:AG:43:PHE:CD2	2.43	0.54
8:AH:77:GLU:HG3	8:AH:78:GLN:N	2.23	0.54
12:AL:41:ARG:CG	12:AL:42:THR:H	2.21	0.54
13:AM:14:ARG:CZ	13:AM:42:ALA:HA	2.38	0.54
22:B0:43:THR:N	31:BA:2331:G:H4'	2.22	0.54
24:B2:26:ARG:NH1	24:B2:29:LYS:HE2	2.23	0.54
27:B5:57:VAL:O	27:B5:58:LEU:HG	2.08	0.54
30:B8:51:ALA:C	30:B8:53:PRO:HD2	2.33	0.54
31:BA:32:C:C2'	31:BA:33:U:H5'	2.38	0.54
31:BA:466:A:N3	31:BA:683:C:H1'	2.23	0.54
31:BA:737:C:C2'	31:BA:738:G:O5'	2.56	0.54
31:BA:753:C:O5'	31:BA:753:C:H6	1.91	0.54
31:BA:806:C:OP2	41:BP:39:LYS:CG	2.56	0.54
31:BA:1021:A:H3'	31:BA:1021:A:H8	1.70	0.54
31:BA:1142(A):A:N7	31:BA:1144:G:C5	2.76	0.54
31:BA:1227:G:H5"	46:BU:16:LYS:NZ	2.23	0.54
31:BA:1353:A:H5"	33:BD:38:LYS:NZ	2.22	0.54
31:BA:1453:U:OP1	43:BR:77:ARG:NH1	2.41	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1718:G:N2	31:BA:1719:G:C4	2.76	0.54
31:BA:1987:G:H2'	31:BA:1988:C:H6	1.71	0.54
31:BA:2544:G:H1'	31:BA:2646:C:H4'	1.90	0.54
31:BA:2876:G:H4'	45:BT:3:ARG:HD3	1.89	0.54
32:BB:75:G:H8	32:BB:75:G:C5'	2.18	0.54
33:BD:206:LEU:HD22	33:BD:211:ARG:HG3	1.90	0.54
34:BE:111:ARG:HG3	43:BR:2:ARG:HG3	1.90	0.54
35:BF:22:ALA:C	35:BF:26:ALA:HB2	2.32	0.54
35:BF:132:VAL:O	35:BF:134:GLY:N	2.41	0.54
40:BO:47:ILE:HG23	40:BO:48:PRO:HD2	1.90	0.54
42:BQ:72:LYS:HB3	42:BQ:94:VAL:CG2	2.38	0.54
45:BT:27:THR:HG22	45:BT:49:VAL:HG12	1.90	0.54
1:CA:303:A:C5	1:CA:304:U:C5	2.96	0.54
1:CA:382:A:C2	1:CA:383:A:C4	2.96	0.54
1:CA:1003:G:N3	1:CA:1004:A:H1'	2.23	0.54
1:CA:1254:C:OP1	10:CJ:45:ARG:HG2	2.07	0.54
2:CB:239:VAL:O	2:CB:239:VAL:HG12	2.08	0.54
4:CD:138:TYR:HD2	4:CD:139:ARG:N	2.06	0.54
5:CE:45:PHE:CE2	5:CE:47:LYS:HD2	2.43	0.54
13:CM:32:GLU:OE2	13:CM:64:TRP:HH2	1.90	0.54
23:D1:37:ILE:O	23:D1:37:ILE:HG23	2.05	0.54
24:D2:29:LYS:O	24:D2:33:MET:SD	2.66	0.54
31:DA:142:A:H8	31:DA:1408:C:H1'	1.68	0.54
31:DA:225:A:C2'	31:DA:226:G:H5'	2.38	0.54
31:DA:754:C:H2'	31:DA:755:C:C6	2.43	0.54
31:DA:1019:U:N3	31:DA:1142(A):A:N6	2.50	0.54
31:DA:1638:C:H5"	31:DA:2710:C:O2'	2.07	0.54
31:DA:2802:G:H3'	31:DA:2802:G:P	2.47	0.54
31:DA:2875:C:O2'	45:DT:5:ALA:HB3	2.08	0.54
33:DD:209:ALA:C	33:DD:210:GLY:O	2.45	0.54
35:DF:20:LEU:HD13	35:DF:203:GLN:NE2	2.22	0.54
36:DG:15:VAL:HA	36:DG:175:LEU:HD13	1.90	0.54
37:DH:44:VAL:O	37:DH:46:GLU:OE2	2.25	0.54
37:DH:46:GLU:O	37:DH:47:GLU:HB2	2.08	0.54
42:DQ:60:ARG:O	42:DQ:60:ARG:HG2	2.07	0.54
45:DT:89:VAL:HG13	45:DT:121:ILE:HD11	1.90	0.54
47:DV:19:LYS:CD	47:DV:20:LEU:H	2.21	0.54
1:AA:236:G:C5	1:AA:237:C:C5	2.96	0.54
1:AA:564:C:C2'	1:AA:565:U:H5'	2.36	0.54
1:AA:1227:A:OP2	13:AM:111:LYS:HE2	2.08	0.54
2:AB:47:THR:HG23	2:AB:202:PRO:HG2	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:100:ARG:NH1	4:AD:137:SER:HA	2.23	0.54
4:AD:175:SER:OG	4:AD:184:LYS:HB2	2.07	0.54
4:AD:206:PHE:HD2	4:AD:207:TYR:CD2	2.26	0.54
5:AE:90:VAL:HG23	5:AE:121:LYS:O	2.08	0.54
10:AJ:8:LEU:HG	10:AJ:96:ILE:CG2	2.37	0.54
22:B0:49:LYS:O	22:B0:50:ASN:HB2	2.08	0.54
31:BA:83:G:N1	31:BA:102:G:H2'	2.22	0.54
31:BA:271(Q):G:O2'	31:BA:271(R):G:OP2	2.23	0.54
31:BA:1002:G:H2'	31:BA:1003:G:O5'	2.08	0.54
31:BA:1493:C:N4	31:BA:2206:G:O2'	2.41	0.54
31:BA:1799:G:H5'	31:BA:1819:A:H61	1.73	0.54
31:BA:1980:G:O2'	31:BA:1982:C:OP2	2.24	0.54
32:BB:6:C:C2	32:BB:116:G:N2	2.76	0.54
32:BB:52:A:HO2'	32:BB:53:A:H8	1.49	0.54
34:BE:27:LEU:HD22	45:BT:1:MET:CE	2.31	0.54
35:BF:123:LEU:HD12	35:BF:124:LEU:N	2.23	0.54
38:BI:35:LEU:O	38:BI:36:ALA:HB2	2.08	0.54
39:BN:67:LEU:O	39:BN:69:GLN:N	2.41	0.54
45:BT:106:SER:O	45:BT:107:ASP:CB	2.55	0.54
47:BV:2:PHE:HB3	47:BV:42:GLY:HA2	1.90	0.54
49:BX:33:LYS:C	49:BX:35:THR:H	2.16	0.54
1:CA:568:G:O6	12:CL:5:PRO:HD3	2.08	0.54
1:CA:927:G:OP2	1:CA:1503:A:C4	2.61	0.54
1:CA:1291:G:H4'	9:CI:38:GLN:O	2.08	0.54
1:CA:1442(B):A:N1	45:DT:118:ARG:CZ	2.70	0.54
4:CD:56:VAL:HG12	4:CD:202:LEU:HD13	1.90	0.54
9:CI:7:THR:HB	9:CI:83:ARG:HH11	1.73	0.54
16:CP:43:LYS:CG	16:CP:48:TRP:CD2	2.91	0.54
23:D1:10:LYS:HB2	23:D1:14:VAL:CA	2.37	0.54
28:D6:11:LEU:CD1	28:D6:51:GLU:HB2	2.38	0.54
30:D8:50:LEU:C	30:D8:52:LYS:H	2.15	0.54
31:DA:36:G:C5	31:DA:37:C:C5	2.96	0.54
31:DA:196:A:C4	31:DA:805:G:C6	2.96	0.54
31:DA:271(K):U:H2'	31:DA:271(M):G:N2	2.23	0.54
31:DA:303:U:H2'	31:DA:304:G:H8	1.73	0.54
31:DA:1300:U:O2'	31:DA:1626:G:C2	2.54	0.54
35:DF:123:LEU:HD12	35:DF:124:LEU:N	2.22	0.54
35:DF:192:LEU:CD1	35:DF:194:MET:HE2	2.38	0.54
36:DG:29:TRP:C	36:DG:31:VAL:N	2.64	0.54
40:DO:29:ASN:N	40:DO:29:ASN:HD22	2.06	0.54
41:DP:17:LYS:O	41:DP:19:VAL:N	2.33	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DP:30:THR:O	41:DP:33:ARG:N	2.35	0.54
45:DT:89:VAL:HG12	45:DT:91:ARG:HB3	1.89	0.54
47:DV:69:LYS:CG	47:DV:70:ILE:N	2.67	0.54
50:DY:8:LYS:HB2	50:DY:28:LYS:CE	2.38	0.54
51:DZ:8:TYR:CD1	51:DZ:8:TYR:N	2.72	0.54
51:DZ:124:ILE:HG13	51:DZ:125:LEU:N	2.21	0.54
1:AA:55:A:N7	1:AA:56:U:C5	2.76	0.53
1:AA:538:G:OP2	12:AL:115:LYS:HG3	2.08	0.53
1:AA:586:C:C2'	1:AA:587:G:H5'	2.38	0.53
1:AA:657:G:N2	1:AA:750:G:C8	2.76	0.53
1:AA:658:G:C2	1:AA:749:C:N3	2.76	0.53
1:AA:1030(D):A:N7	1:AA:1031:G:N3	2.56	0.53
6:AF:75:LEU:HD21	6:AF:79:LEU:HD11	1.90	0.53
16:AP:82:GLN:N	16:AP:82:GLN:HE21	2.06	0.53
19:AS:29:ARG:HD3	19:AS:48:THR:OG1	2.08	0.53
23:B1:66:HIS:C	23:B1:68:PRO:HD2	2.32	0.53
26:B4:13:ARG:HA	36:BG:101:ILE:HD11	1.89	0.53
31:BA:26:G:C6	31:BA:27:G:N1	2.76	0.53
31:BA:65:C:H2'	31:BA:66:C:H6	1.72	0.53
31:BA:271(K):U:H3'	31:BA:271(L):U:C5'	2.37	0.53
31:BA:601:C:O2	31:BA:605:C:H4'	2.09	0.53
31:BA:637:A:O5'	41:BP:116:GLY:HA2	2.08	0.53
31:BA:1276:A:C2	31:BA:1277:G:C8	2.96	0.53
31:BA:2552:U:H2'	31:BA:2554:U:OP2	2.08	0.53
31:BA:2584:U:H6	31:BA:2585:U:C5	2.25	0.53
34:BE:108:SER:HB3	34:BE:165:VAL:HG21	1.89	0.53
36:BG:48:GLU:O	36:BG:49:ASP:HB2	2.08	0.53
36:BG:82:LEU:C	36:BG:83:ARG:HG3	2.33	0.53
36:BG:118:ARG:HB2	36:BG:181:ARG:NE	2.23	0.53
37:BH:41:MET:HG3	37:BH:53:GLU:O	2.07	0.53
39:BN:3:THR:O	39:BN:4:TYR:CD2	2.61	0.53
40:BO:35:VAL:HA	40:BO:62:VAL:CG1	2.38	0.53
43:BR:9:LYS:C	43:BR:10:LEU:HG	2.33	0.53
45:BT:35:LYS:O	45:BT:38:ASN:O	2.26	0.53
49:BX:25:LYS:HG3	49:BX:26:TYR:CD1	2.43	0.53
1:CA:20:U:H2'	1:CA:21:G:O4'	2.08	0.53
1:CA:287:U:O2'	1:CA:288:A:H5'	2.08	0.53
1:CA:356:A:C2'	1:CA:357:G:O5'	2.56	0.53
1:CA:1321:C:H5'	1:CA:1322:C:C5'	2.37	0.53
1:CA:1486:G:H2'	1:CA:1487:G:O4'	2.08	0.53
2:CB:17:PHE:O	2:CB:18:GLY:O	2.25	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:111:ARG:O	2:CB:145:LEU:HD11	2.09	0.53
4:CD:12:CYS:N	4:CD:19:LEU:HD11	2.24	0.53
4:CD:175:SER:OG	4:CD:184:LYS:HB2	2.08	0.53
8:CH:44:PHE:HB3	8:CH:80:ILE:HD11	1.90	0.53
16:CP:28:ARG:HH11	16:CP:28:ARG:CG	2.01	0.53
16:CP:64:ALA:O	16:CP:65:GLN:C	2.51	0.53
22:D0:12:ASN:ND2	31:DA:2277:G:H3'	2.23	0.53
22:D0:42:GLY:HA3	31:DA:2331:G:O4'	2.07	0.53
28:D6:37:ARG:O	28:D6:48:VAL:O	2.26	0.53
31:DA:203:C:H3'	31:DA:204:A:H5"	1.90	0.53
31:DA:774:A:H2	31:DA:787:U:O2'	1.90	0.53
31:DA:1508:A:O2'	31:DA:1509:C:P	2.67	0.53
31:DA:2075:U:H2'	31:DA:2238:G:N2	2.22	0.53
31:DA:2409:G:H2'	31:DA:2410:G:O4'	2.09	0.53
31:DA:2484:G:C2	31:DA:2485:G:C8	2.95	0.53
31:DA:2759:G:H2'	31:DA:2760:C:O5'	2.08	0.53
34:DE:67:PHE:C	34:DE:69:LYS:N	2.63	0.53
34:DE:170:LEU:HD12	34:DE:170:LEU:N	2.23	0.53
39:DN:44:PRO:HD3	46:DU:60:LEU:HD21	1.90	0.53
48:DW:59:VAL:CG1	48:DW:60:ASN:N	2.56	0.53
49:DX:52:VAL:HG21	49:DX:82:GLN:HA	1.90	0.53
50:DY:96:ILE:H	50:DY:100:ALA:HA	1.72	0.53
1:AA:330:C:C2'	1:AA:331:G:H5'	2.38	0.53
1:AA:339:C:OP2	40:BO:97:ARG:NH1	2.42	0.53
1:AA:342:C:C2'	1:AA:343:U:H5'	2.38	0.53
1:AA:373:A:C8	1:AA:482:A:C8	2.96	0.53
1:AA:428:G:C5	1:AA:430:A:C6	2.96	0.53
1:AA:543:C:O2'	1:AA:544:G:H5'	2.07	0.53
1:AA:625:G:H2'	1:AA:626:U:H6	1.72	0.53
1:AA:1271:G:H5'	1:AA:1314:C:H5'	1.90	0.53
2:AB:97:TRP:HH2	2:AB:176:GLU:CG	2.21	0.53
3:AC:102:ASN:O	3:AC:103:VAL:HG23	2.07	0.53
4:AD:138:TYR:HD2	4:AD:139:ARG:N	2.05	0.53
16:AP:23:ASP:O	16:AP:25:ARG:N	2.41	0.53
24:B2:12:GLU:C	24:B2:12:GLU:CD	2.76	0.53
27:B5:55:ARG:HD3	27:B5:56:LYS:H	1.72	0.53
31:BA:615:G:OP1	35:BF:40:GLN:NE2	2.34	0.53
31:BA:2677:G:H2'	31:BA:2678:C:C6	2.44	0.53
31:BA:2884:U:C2'	31:BA:2885:C:H5'	2.38	0.53
33:BD:68:LYS:HB2	33:BD:70:TRP:CH2	2.43	0.53
35:BF:65:TRP:CZ3	35:BF:75:HIS:CD2	2.94	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:132:VAL:HG22	35:BF:133:ASN:N	2.24	0.53
38:BI:8:PRO:HA	38:BI:13:GLY:O	2.08	0.53
41:BP:75:ILE:HD13	41:BP:75:ILE:H	1.72	0.53
41:BP:97:PRO:O	41:BP:98:GLU:CB	2.51	0.53
1:CA:189(D):C:H1'	1:CA:189(H):G:C2	2.43	0.53
1:CA:373:A:C2	1:CA:374:A:C8	2.95	0.53
1:CA:781:A:C3'	1:CA:782:A:H5'	2.37	0.53
1:CA:995:C:H1'	14:CN:8:GLU:OE2	2.08	0.53
3:CC:52:LEU:H	3:CC:52:LEU:CD2	2.22	0.53
5:CE:90:VAL:HG23	5:CE:121:LYS:O	2.08	0.53
10:CJ:13:HIS:O	10:CJ:17:ASP:HB2	2.08	0.53
10:CJ:54:PHE:HZ	10:CJ:55:LYS:HZ2	1.50	0.53
13:CM:81:LEU:HB3	13:CM:89:GLY:CA	2.37	0.53
28:D6:28:ARG:HA	28:D6:32:ASN:HB3	1.89	0.53
31:DA:102:G:C8	31:DA:102:G:C5'	2.85	0.53
31:DA:186:G:H2'	31:DA:187:G:H8	1.73	0.53
31:DA:271(X):G:H2'	31:DA:271(Y):U:H5"	1.90	0.53
31:DA:901:A:H2'	31:DA:901:A:N3	2.23	0.53
31:DA:1027:A:C6	31:DA:1126:A:C4	2.96	0.53
31:DA:1213:A:H1'	31:DA:1238:G:N3	2.23	0.53
31:DA:1399:C:O2'	31:DA:1400:G:H5'	2.08	0.53
31:DA:1657:C:H2'	31:DA:1658:C:C6	2.43	0.53
31:DA:1679:U:C2'	31:DA:1680:U:H5'	2.38	0.53
31:DA:2476:A:H2'	31:DA:2477:C:C5'	2.38	0.53
31:DA:2636:U:H4'	34:DE:80:GLU:OE1	2.09	0.53
37:DH:41:MET:SD	37:DH:55:PRO:CD	2.94	0.53
37:DH:41:MET:O	37:DH:42:ARG:C	2.49	0.53
44:DS:18:ILE:HG22	44:DS:19:LYS:N	2.23	0.53
47:DV:35:LEU:HD23	47:DV:35:LEU:H	1.72	0.53
1:AA:300:A:H1'	1:AA:565:U:O2	2.08	0.53
1:AA:490:G:O2'	1:AA:491:G:H5'	2.09	0.53
1:AA:840:C:H4'	1:AA:848:C:O2	2.08	0.53
2:AB:77:ALA:HA	2:AB:80:ILE:CD1	2.37	0.53
4:AD:79:PHE:CE1	4:AD:204:ILE:HA	2.44	0.53
7:AG:150:ALA:HB2	11:AK:50:TYR:OH	2.08	0.53
17:AQ:40:LYS:HD2	17:AQ:42:TYR:CZ	2.44	0.53
19:AS:63:THR:HG22	19:AS:66:MET:HE3	1.90	0.53
27:B5:41:PRO:O	27:B5:44:THR:OG1	2.26	0.53
29:B7:19:ARG:HG2	29:B7:19:ARG:NH1	2.21	0.53
30:B8:16:ILE:HD11	30:B8:57:ARG:CG	2.27	0.53
31:BA:225:A:H2'	31:BA:226:G:H5'	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:358:U:H3'	31:BA:358:U:H6	1.74	0.53
31:BA:374:A:H2'	31:BA:375:C:H5'	1.89	0.53
31:BA:2400:G:C5	31:BA:2401:U:C5	2.96	0.53
31:BA:2702:U:HO2'	31:BA:2703:C:H6	1.46	0.53
32:BB:32:C:C2	32:BB:51:G:N2	2.76	0.53
34:BE:2:LYS:NZ	34:BE:95:ILE:O	2.42	0.53
34:BE:11:MET:O	45:BT:8:LYS:HE2	2.07	0.53
35:BF:24:LEU:CB	35:BF:25:PRO:HD2	2.34	0.53
38:BI:29:TYR:C	38:BI:32:PRO:HD2	2.34	0.53
38:BI:54:GLN:HG2	38:BI:57:ARG:NH2	2.23	0.53
39:BN:41:ASP:O	39:BN:42:TRP:C	2.51	0.53
39:BN:65:LYS:NZ	39:BN:66:LYS:H	2.06	0.53
39:BN:65:LYS:C	39:BN:66:LYS:HG2	2.32	0.53
42:BQ:9:TYR:CD2	42:BQ:9:TYR:C	2.86	0.53
45:BT:55:ASN:H	45:BT:59:THR:CG2	2.20	0.53
46:BU:76:TYR:CZ	46:BU:80:ILE:HG13	2.43	0.53
47:BV:82:ARG:O	47:BV:82:ARG:HD3	2.07	0.53
48:BW:86:LEU:HD12	48:BW:87:PRO:CD	2.39	0.53
49:BX:40:LYS:HG2	49:BX:41:ASN:N	2.23	0.53
49:BX:72:LYS:HG3	49:BX:73:ARG:H	1.74	0.53
1:CA:59:A:C5	1:CA:354:G:C6	2.96	0.53
1:CA:392:G:H2'	1:CA:393:A:C8	2.41	0.53
1:CA:501:C:O2'	1:CA:502:G:H5'	2.08	0.53
1:CA:559:A:C4'	1:CA:560:U:H3'	2.38	0.53
1:CA:687:A:H1'	1:CA:688:G:OP2	2.08	0.53
2:CB:20:GLU:HB2	2:CB:190:THR:OG1	2.07	0.53
3:CC:36:ASP:HB3	3:CC:40:ARG:HH12	1.72	0.53
4:CD:109:GLY:O	4:CD:111:ALA:N	2.41	0.53
5:CE:41:VAL:HG13	5:CE:113:ALA:HA	1.89	0.53
7:CG:32:ARG:O	7:CG:33:ASP:CB	2.56	0.53
13:CM:44:ARG:HB2	13:CM:46:LYS:HG2	1.89	0.53
22:D0:49:LYS:O	22:D0:50:ASN:HB2	2.07	0.53
25:D3:18:ASP:HB2	25:D3:49:LYS:CE	2.39	0.53
31:DA:668:G:C3'	31:DA:669:G:H5'	2.38	0.53
31:DA:867:C:C6	31:DA:868:U:C5	2.95	0.53
31:DA:1338:G:O2'	31:DA:1339:G:H5'	2.09	0.53
31:DA:1568:G:OP2	33:DD:63:ARG:NH2	2.41	0.53
31:DA:2463:C:O2'	31:DA:2464:C:H5'	2.08	0.53
31:DA:2616:C:H2'	31:DA:2617:C:H6	1.73	0.53
31:DA:2716:U:O2'	31:DA:2717:G:H5'	2.08	0.53
32:DB:42:C:O2	36:DG:93:THR:N	2.40	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DB:66:A:C4	32:DB:109:C:C4	2.97	0.53
35:DF:24:LEU:CB	35:DF:25:PRO:HD2	2.35	0.53
38:DI:108:THR:O	38:DI:109:ILE:HG23	2.07	0.53
39:DN:27:ALA:CB	39:DN:106:MET:HE2	2.37	0.53
39:DN:58:ASP:OD1	39:DN:58:ASP:N	2.41	0.53
41:DP:96:THR:HG22	41:DP:126:VAL:CG2	2.38	0.53
43:DR:116:LEU:O	43:DR:117:VAL:CB	2.55	0.53
46:DU:91:ASP:O	46:DU:95:LEU:HB2	2.08	0.53
47:DV:18:LEU:HD12	47:DV:98:GLU:OE1	2.09	0.53
47:DV:47:VAL:HG21	47:DV:49:THR:HB	1.90	0.53
49:DX:70:LEU:O	49:DX:71:GLY:C	2.50	0.53
1:AA:353:A:H2'	1:AA:354:G:OP2	2.07	0.53
1:AA:450:G:OP1	1:AA:452:A:OP1	2.27	0.53
1:AA:1321:C:H5'	1:AA:1322:C:C5'	2.37	0.53
1:AA:1485:U:H5'	31:BA:1961:C:H5"	1.91	0.53
3:AC:86:VAL:O	3:AC:90:GLU:HG2	2.09	0.53
4:AD:131:ARG:HD3	4:AD:131:ARG:H	1.73	0.53
6:AF:53:ALA:O	6:AF:54:LYS:HB2	2.07	0.53
13:AM:44:ARG:HB2	13:AM:46:LYS:HG2	1.90	0.53
17:AQ:27:PHE:CZ	17:AQ:36:ILE:HD11	2.43	0.53
20:AT:67:ALA:HB2	20:AT:77:ALA:HB2	1.90	0.53
23:B1:19:GLN:NE2	31:BA:379:G:N2	2.42	0.53
23:B1:62:VAL:HG22	23:B1:63:ALA:N	2.24	0.53
28:B6:29:ASN:O	28:B6:30:THR:C	2.48	0.53
30:B8:4:MET:HE1	31:BA:593:G:H1'	1.91	0.53
31:BA:174:C:C3'	31:BA:175:G:H5"	2.38	0.53
31:BA:528:A:C2	31:BA:2043:C:C5'	2.92	0.53
31:BA:543:C:N4	31:BA:551:G:N1	2.56	0.53
31:BA:562:U:C4	31:BA:2036:C:O4'	2.62	0.53
31:BA:719:C:H2'	31:BA:720:C:H6	1.73	0.53
31:BA:724:U:H2'	31:BA:725:G:O4'	2.09	0.53
31:BA:870:A:C2	31:BA:908:C:C2	2.96	0.53
31:BA:1141:U:O5'	39:BN:63:THR:HG21	2.08	0.53
31:BA:1742:G:N7	31:BA:1743:C:N3	2.56	0.53
31:BA:2291:U:O2'	31:BA:2374:C:H1'	2.09	0.53
32:BB:35:U:O2'	32:BB:36:C:H5'	2.09	0.53
39:BN:91:LEU:HA	39:BN:95:PRO:CB	2.36	0.53
40:BO:2:ILE:HD12	40:BO:6:THR:HG21	1.90	0.53
42:BQ:7:MET:O	42:BQ:10:ARG:NE	2.38	0.53
42:BQ:139:GLU:HG2	42:BQ:139:GLU:O	2.07	0.53
43:BR:9:LYS:O	43:BR:10:LEU:HG	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BS:12:PHE:CE1	44:BS:91:PRO:HG3	2.43	0.53
47:BV:40:LEU:C	47:BV:40:LEU:CD1	2.81	0.53
1:CA:490:G:O2'	1:CA:491:G:H5'	2.08	0.53
1:CA:604:G:C6	1:CA:605:U:C4	2.97	0.53
1:CA:735:C:H2'	1:CA:736:C:C6	2.38	0.53
1:CA:830:G:C5	1:CA:831:U:C5	2.97	0.53
2:CB:221:LEU:HD13	2:CB:221:LEU:O	2.08	0.53
4:CD:62:GLN:HA	4:CD:62:GLN:HE21	1.70	0.53
8:CH:87:SER:HA	8:CH:93:VAL:HB	1.91	0.53
12:CL:62:SER:O	12:CL:64:TYR:N	2.42	0.53
17:CQ:5:VAL:CG1	17:CQ:6:LEU:H	2.21	0.53
20:CT:56:MET:CG	20:CT:88:VAL:HG21	2.38	0.53
31:DA:271(K):U:H3'	31:DA:271(L):U:C5'	2.38	0.53
31:DA:524:U:H2'	31:DA:525:U:C6	2.43	0.53
31:DA:535:C:O2'	31:DA:536:A:H5'	2.07	0.53
31:DA:867:C:C6	31:DA:868:U:H5	2.26	0.53
31:DA:2291:U:O2'	31:DA:2374:C:H1'	2.08	0.53
31:DA:2795:G:N2	31:DA:2796:U:O2'	2.41	0.53
33:DD:172:TYR:HD1	33:DD:185:VAL:C	2.17	0.53
35:DF:57:VAL:HG11	35:DF:59:TYR:HD1	1.73	0.53
36:DG:103:LEU:HD23	36:DG:106:LEU:HD23	1.90	0.53
39:DN:13:TRP:CZ3	39:DN:130:HIS:HE1	2.22	0.53
45:DT:65:LYS:CE	45:DT:66:VAL:H	2.01	0.53
46:DU:31:SER:HB3	46:DU:34:LYS:HB2	1.91	0.53
1:AA:926:G:H5"	1:AA:927:G:O5'	2.09	0.53
1:AA:995:C:H1'	14:AN:8:GLU:OE2	2.08	0.53
2:AB:59:GLU:C	2:AB:61:LEU:H	2.17	0.53
2:AB:221:LEU:HD13	2:AB:221:LEU:O	2.07	0.53
12:AL:62:SER:O	12:AL:64:TYR:N	2.41	0.53
13:AM:81:LEU:HB3	13:AM:89:GLY:CA	2.38	0.53
31:BA:336:C:H2'	31:BA:337:C:H6	1.72	0.53
31:BA:828:U:H4'	31:BA:831:G:N1	2.24	0.53
31:BA:861:A:N3	32:BB:79:C:O2'	2.41	0.53
31:BA:945:A:H5"	31:BA:946:G:OP2	2.07	0.53
31:BA:2402:C:C3'	31:BA:2403:C:H5'	2.38	0.53
31:BA:2476:A:C5	31:BA:2477:C:C5	2.96	0.53
32:BB:82:G:O2'	32:BB:83:G:H5'	2.08	0.53
39:BN:4:TYR:N	39:BN:4:TYR:CD1	2.75	0.53
39:BN:38:HIS:O	46:BU:67:ALA:HB1	2.08	0.53
40:BO:107:ARG:HD3	40:BO:112:MET:SD	2.48	0.53
46:BU:31:SER:HB3	46:BU:34:LYS:HB2	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BU:88:ILE:O	46:BU:90:VAL:N	2.42	0.53
47:BV:72:VAL:HG13	47:BV:88:ARG:HH22	1.73	0.53
49:BX:78:LYS:O	49:BX:78:LYS:HD3	2.08	0.53
1:CA:330:C:C2'	1:CA:331:G:H5'	2.38	0.53
1:CA:501:C:H2'	1:CA:502:G:C8	2.44	0.53
1:CA:976:G:C5'	1:CA:1358:U:O2'	2.57	0.53
1:CA:1392:G:N2	1:CA:1502:A:C8	2.76	0.53
2:CB:29:ALA:C	2:CB:31:TYR:H	2.16	0.53
4:CD:79:PHE:CZ	4:CD:204:ILE:HA	2.44	0.53
6:CF:46:ARG:NH1	18:CR:37:VAL:HG21	2.24	0.53
10:CJ:6:ILE:HG22	10:CJ:98:ILE:HG13	1.89	0.53
13:CM:14:ARG:CZ	13:CM:42:ALA:HA	2.38	0.53
13:CM:34:LEU:HD22	13:CM:39:ILE:O	2.09	0.53
17:CQ:13:ASP:H	17:CQ:14:LYS:HZ2	1.55	0.53
19:CS:35:SER:C	19:CS:37:ARG:H	2.16	0.53
20:CT:73:HIS:O	20:CT:74:LYS:O	2.27	0.53
23:D1:10:LYS:O	23:D1:13:ILE:CG2	2.57	0.53
24:D2:12:GLU:C	24:D2:14:ARG:N	2.64	0.53
24:D2:49:LYS:HZ3	24:D2:53:LEU:HD22	1.73	0.53
24:D2:57:ILE:HG13	24:D2:58:ALA:C	2.33	0.53
31:DA:154:G:H2'	31:DA:154(A):C:O2	2.08	0.53
31:DA:301:G:H1'	31:DA:302:C:C6	2.43	0.53
31:DA:806:C:OP2	41:DP:39:LYS:HG3	2.09	0.53
31:DA:1142(A):A:N7	31:DA:1144:G:C6	2.76	0.53
31:DA:1657:C:H5"	34:DE:133:LYS:O	2.09	0.53
31:DA:1803:A:H4'	33:DD:259:THR:CG2	2.38	0.53
31:DA:2496:C:P	42:DQ:81:VAL:HG13	2.48	0.53
36:DG:105:LYS:HB2	36:DG:105:LYS:HZ2	1.73	0.53
38:DI:15:VAL:C	38:DI:17:GLN:H	2.17	0.53
40:DO:7:TYR:OH	40:DO:44:LYS:HG3	2.09	0.53
42:DQ:25:ASP:HB2	42:DQ:102:VAL:HG23	1.89	0.53
43:DR:117:VAL:HG13	43:DR:118:GLU:N	2.22	0.53
47:DV:66:ARG:HD3	47:DV:94:LEU:HG	1.91	0.53
47:DV:80:GLN:O	47:DV:81:TYR:N	2.42	0.53
51:DZ:151:HIS:O	51:DZ:152:ALA:O	2.26	0.53
1:AA:84:U:H6	1:AA:84:U:H3'	1.74	0.53
1:AA:627:G:H2'	1:AA:628:G:C8	2.43	0.53
1:AA:1191:A:P	3:AC:3:ASN:HD21	2.32	0.53
1:AA:1321:C:H5"	1:AA:1322:C:H2'	1.90	0.53
1:AA:1348:U:H4'	9:AI:120:ARG:HD2	1.91	0.53
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.44	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:142:LEU:O	2:AB:142:LEU:HD23	2.09	0.53
4:AD:127:THR:OG1	4:AD:128:VAL:N	2.42	0.53
12:AL:18:VAL:O	12:AL:19:ARG:HB3	2.07	0.53
17:AQ:5:VAL:HG12	17:AQ:6:LEU:H	1.73	0.53
31:BA:873:G:H1	31:BA:904:C:H42	1.56	0.53
31:BA:2580:U:C5'	34:BE:131:ALA:H	2.21	0.53
31:BA:2795:G:N2	31:BA:2796:U:O2'	2.41	0.53
32:BB:41:U:C4	36:BG:70:VAL:O	2.62	0.53
32:BB:89:G:H8	32:BB:89:G:OP2	1.91	0.53
33:BD:25:THR:CG2	33:BD:82:ILE:N	2.70	0.53
33:BD:173:VAL:HG23	33:BD:174:ILE:N	2.22	0.53
34:BE:120:TRP:CD2	34:BE:155:LYS:HD3	2.44	0.53
41:BP:48:PRO:O	41:BP:51:PHE:N	2.41	0.53
44:BS:97:ARG:HE	44:BS:98:VAL:HA	1.73	0.53
51:BZ:63:ASP:O	51:BZ:65:GLN:HG2	2.09	0.53
51:BZ:112:ARG:C	51:BZ:114:GLY:H	2.15	0.53
1:CA:380:G:N2	1:CA:384:G:C5	2.76	0.53
1:CA:540:G:H2'	1:CA:541:G:O4'	2.07	0.53
1:CA:668:G:O2'	1:CA:669:U:H5'	2.09	0.53
1:CA:960:U:H2'	1:CA:960:U:O2	2.07	0.53
1:CA:1125:U:H3	10:CJ:5:ARG:NH1	2.07	0.53
1:CA:1348:U:H4'	9:CI:120:ARG:HD2	1.91	0.53
2:CB:76:GLN:O	2:CB:208:ILE:HG12	2.08	0.53
2:CB:114:ARG:O	2:CB:118:LEU:HG	2.09	0.53
2:CB:215:LEU:O	2:CB:219:VAL:HG23	2.09	0.53
3:CC:20:SER:HB2	3:CC:40:ARG:NH2	2.23	0.53
6:CF:82:ARG:HB2	6:CF:85:VAL:HG23	1.90	0.53
7:CG:149:ARG:HD3	11:CK:59:TYR:CE1	2.43	0.53
14:CN:44:LEU:C	14:CN:44:LEU:HD12	2.34	0.53
20:CT:50:GLU:HB3	20:CT:100:ILE:CD1	2.38	0.53
20:CT:84:LEU:O	20:CT:88:VAL:HG23	2.09	0.53
20:CT:96:GLY:O	20:CT:97:ALA:HB3	2.07	0.53
27:D5:31:VAL:HG22	27:D5:40:LYS:O	2.08	0.53
30:D8:23:VAL:HG11	30:D8:46:ARG:HD3	1.91	0.53
30:D8:34:TRP:HZ3	30:D8:41:ILE:CD1	2.21	0.53
30:D8:46:ARG:NH2	41:DP:65:ARG:HH22	2.05	0.53
31:DA:102:G:H8	31:DA:102:G:C5'	2.02	0.53
31:DA:271(L):U:H4'	31:DA:271(M):G:N7	2.24	0.53
31:DA:729:G:C5	33:DD:208:LYS:HB2	2.43	0.53
31:DA:1027:A:N6	31:DA:1126:A:C4	2.77	0.53
31:DA:1497:U:H2'	31:DA:1498:C:OP1	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1952:A:C6	40:DO:22:ILE:HD11	2.43	0.53
33:DD:72:LYS:HE3	33:DD:99:ASP:OD1	2.09	0.53
36:DG:47:LYS:CG	36:DG:82:LEU:HG	2.36	0.53
36:DG:118:ARG:HB2	36:DG:181:ARG:NE	2.24	0.53
45:DT:27:THR:O	45:DT:28:VAL:CG2	2.55	0.53
45:DT:55:ASN:H	45:DT:59:THR:CG2	2.21	0.53
47:DV:73:SER:O	47:DV:74:LYS:HB2	2.08	0.53
50:DY:37:VAL:O	50:DY:38:ILE:CB	2.56	0.53
51:DZ:54:HIS:HE1	51:DZ:123:ASP:CG	2.15	0.53
51:DZ:56:VAL:HA	51:DZ:70:LEU:HD23	1.90	0.53
1:AA:20:U:H2'	1:AA:21:G:O4'	2.08	0.53
1:AA:437:U:O2'	1:AA:438:G:H5'	2.09	0.53
1:AA:448:A:H62	1:AA:486:U:H3	1.56	0.53
1:AA:560:U:H5'	1:AA:566:G:N2	2.24	0.53
2:AB:158:LEU:HD12	2:AB:158:LEU:N	2.24	0.53
4:AD:98:GLU:HG2	4:AD:194:LEU:HD11	1.89	0.53
6:AF:14:LEU:HB3	6:AF:19:LEU:HB2	1.90	0.53
12:AL:55:VAL:HG12	12:AL:68:ALA:O	2.08	0.53
16:AP:39:TYR:CE1	16:AP:41:PRO:HA	2.44	0.53
20:AT:8:ARG:HD2	20:AT:8:ARG:N	2.24	0.53
23:B1:87:PRO:CD	23:B1:88:LYS:N	2.60	0.53
28:B6:20:ASN:OD1	28:B6:21:TYR:O	2.27	0.53
30:B8:46:ARG:NH2	41:BP:65:ARG:HH22	2.03	0.53
31:BA:271(A):A:H2	31:BA:272(D):G:N3	2.07	0.53
31:BA:1171:G:N7	31:BA:1173:G:H1'	2.23	0.53
31:BA:1850:G:C5	31:BA:1851:U:C5	2.96	0.53
36:BG:43:LEU:CD1	36:BG:153:ARG:HD2	2.39	0.53
37:BH:46:GLU:O	37:BH:47:GLU:HB2	2.08	0.53
39:BN:83:LYS:HE2	39:BN:85:ILE:HD11	1.90	0.53
42:BQ:103:MET:HB2	42:BQ:104:PHE:CD1	2.44	0.53
47:BV:51:VAL:CG1	47:BV:52:VAL:N	2.72	0.53
48:BW:54:ALA:HB1	48:BW:107:LEU:HD22	1.90	0.53
1:CA:538:G:OP2	12:CL:115:LYS:HG3	2.09	0.53
1:CA:1081:G:N2	1:CA:1082:G:H1'	2.24	0.53
1:CA:1191:A:P	3:CC:3:ASN:HD21	2.31	0.53
1:CA:1248:A:C2'	1:CA:1249:C:H5'	2.39	0.53
1:CA:1305:G:OP2	1:CA:1305:G:C8	2.62	0.53
4:CD:33:MET:CE	4:CD:37:PRO:HA	2.32	0.53
5:CE:137:GLU:O	5:CE:141:GLN:HG3	2.09	0.53
10:CJ:6:ILE:HD11	10:CJ:72:VAL:HB	1.91	0.53
13:CM:48:LEU:HD11	13:CM:53:VAL:HG22	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:82:ILE:C	15:CO:82:ILE:HD13	2.33	0.53
15:CO:87:ILE:CG2	15:CO:88:ARG:N	2.68	0.53
24:D2:53:LEU:HA	24:D2:56:GLN:HE22	1.72	0.53
30:D8:38:GLY:C	30:D8:40:GLU:H	2.16	0.53
31:DA:271(E):U:H2'	31:DA:271(F):C:H6	1.74	0.53
31:DA:1019:U:C2'	31:DA:1021:A:H2	2.22	0.53
31:DA:1303:G:H1'	31:DA:1641:A:N1	2.23	0.53
31:DA:1491:G:O2'	31:DA:1492:G:H5'	2.08	0.53
31:DA:2473:U:C4	31:DA:2474:C:C5	2.97	0.53
33:DD:65:ILE:CD1	33:DD:67:PHE:CE1	2.77	0.53
34:DE:2:LYS:NZ	34:DE:95:ILE:O	2.41	0.53
34:DE:36:ARG:HH11	34:DE:36:ARG:HG2	1.74	0.53
34:DE:179:GLU:O	34:DE:180:ASN:HB2	2.07	0.53
35:DF:129:PHE:CD2	35:DF:163:VAL:HG21	2.43	0.53
41:DP:16:ARG:CZ	41:DP:18:ARG:HB2	2.39	0.53
42:DQ:23:GLY:HA3	42:DQ:99:PRO:O	2.08	0.53
45:DT:40:THR:O	45:DT:41:ARG:CB	2.56	0.53
45:DT:68:TYR:O	45:DT:70:VAL:N	2.42	0.53
45:DT:100:TYR:HD2	45:DT:103:ARG:NH2	2.07	0.53
47:DV:72:VAL:HG13	47:DV:88:ARG:HH22	1.72	0.53
49:DX:85:PRO:O	49:DX:87:GLN:N	2.42	0.53
51:DZ:165:VAL:HG12	51:DZ:166:SER:OG	2.08	0.53
1:AA:863:U:H2'	1:AA:865:A:OP2	2.08	0.53
1:AA:1486:G:H2'	1:AA:1487:G:O4'	2.09	0.53
3:AC:105:GLU:HG2	3:AC:106:VAL:H	1.74	0.53
3:AC:116:VAL:HG21	3:AC:202:ILE:HD11	1.90	0.53
12:AL:33:ARG:HG2	12:AL:60:LEU:HD12	1.90	0.53
14:AN:44:LEU:C	14:AN:44:LEU:HD12	2.33	0.53
19:AS:35:SER:C	19:AS:37:ARG:H	2.17	0.53
19:AS:79:THR:O	19:AS:80:TYR:CB	2.56	0.53
23:B1:64:ALA:O	23:B1:65:SER:CB	2.56	0.53
24:B2:26:ARG:CG	49:BX:5:TYR:O	2.56	0.53
31:BA:958:U:O2'	31:BA:959:A:OP1	2.26	0.53
31:BA:1001:A:H2'	31:BA:1002:G:O4'	2.08	0.53
31:BA:1533:G:O2'	31:BA:1543:C:OP1	2.26	0.53
31:BA:2404:C:C2'	31:BA:2405:G:C5'	2.86	0.53
31:BA:2822:G:O6	43:BR:4:LEU:HD13	2.09	0.53
33:BD:131:LEU:CB	33:BD:136:ILE:HD11	2.32	0.53
41:BP:23:PRO:C	41:BP:33:ARG:HE	2.13	0.53
42:BQ:63:LYS:HB2	42:BQ:63:LYS:NZ	2.24	0.53
45:BT:30:VAL:HG21	45:BT:83:ILE:CG1	2.37	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BV:35:LEU:HD23	47:BV:35:LEU:N	2.24	0.53
49:BX:80:ILE:HG23	49:BX:81:VAL:N	2.24	0.53
50:BY:8:LYS:HB2	50:BY:28:LYS:HZ3	1.74	0.53
50:BY:68:HIS:HB3	50:BY:71:LYS:HZ1	1.71	0.53
1:CA:118:U:C5	1:CA:288:A:C6	2.97	0.53
1:CA:355:C:N3	1:CA:356:A:N7	2.57	0.53
1:CA:356:A:H1'	1:CA:368:U:O2'	2.09	0.53
1:CA:507:C:OP2	1:CA:508:C:O2'	2.23	0.53
1:CA:763:G:C4	1:CA:764:C:C6	2.97	0.53
1:CA:1072:G:C5	1:CA:1073:U:C4	2.97	0.53
1:CA:1084:G:OP1	1:CA:1086:U:C4	2.61	0.53
1:CA:1498:U:H1'	1:CA:1499:A:OP2	2.09	0.53
2:CB:51:LEU:HD23	2:CB:201:ILE:HD12	1.91	0.53
2:CB:166:ASP:HB3	2:CB:169:LYS:HB2	1.90	0.53
3:CC:117:ALA:O	3:CC:187:ALA:HB3	2.08	0.53
5:CE:80:ILE:HG13	5:CE:91:LEU:HB2	1.91	0.53
23:D1:10:LYS:HG3	23:D1:11:ARG:H	1.74	0.53
27:D5:11:THR:HG23	31:DA:1263:U:O2'	2.09	0.53
31:DA:579:G:H2'	31:DA:580:C:C6	2.44	0.53
31:DA:795:C:H2'	31:DA:796:C:H6	1.73	0.53
31:DA:2031:A:N3	31:DA:2455:G:O2'	2.41	0.53
31:DA:2476:A:C5	31:DA:2477:C:C5	2.97	0.53
31:DA:2536:G:C5	31:DA:2537:U:C5	2.96	0.53
34:DE:27:LEU:HD12	34:DE:181:LEU:HD13	1.90	0.53
34:DE:70:ALA:O	34:DE:72:VAL:N	2.42	0.53
37:DH:90:LYS:HB2	37:DH:159:GLU:O	2.09	0.53
39:DN:62:VAL:O	39:DN:63:THR:O	2.27	0.53
42:DQ:88:GLY:O	42:DQ:90:VAL:HG23	2.08	0.53
45:DT:91:ARG:CB	45:DT:116:ALA:HA	2.33	0.53
50:DY:96:ILE:HG22	50:DY:97:ARG:O	2.08	0.53
50:DY:100:ALA:O	50:DY:101:LYS:HB3	2.08	0.53
1:AA:946:A:H2'	1:AA:947:G:H8	1.74	0.53
2:AB:29:ALA:C	2:AB:31:TYR:N	2.64	0.53
2:AB:127:ILE:N	2:AB:127:ILE:HD13	2.24	0.53
7:AG:146:GLU:OE2	7:AG:149:ARG:HD2	2.09	0.53
8:AH:28:ALA:HB3	8:AH:57:PRO:O	2.08	0.53
13:AM:15:VAL:HG12	13:AM:45:VAL:HG22	1.91	0.53
20:AT:50:GLU:HB3	20:AT:100:ILE:CD1	2.39	0.53
24:B2:48:HIS:NE2	31:BA:75:G:H4'	2.22	0.53
31:BA:282:A:C4	31:BA:359:A:C2	2.97	0.53
31:BA:307:G:N2	31:BA:310:A:OP2	2.42	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1784:A:H4'	31:BA:1785:A:O5'	2.08	0.53
31:BA:2472:G:H8	31:BA:2472:G:C5'	2.22	0.53
32:BB:56:G:H5'	36:BG:27:ASN:ND2	2.24	0.53
32:BB:73:A:C4	32:BB:105:A:C2	2.97	0.53
34:BE:59:VAL:CG2	34:BE:63:LEU:HA	2.39	0.53
34:BE:65:GLY:C	34:BE:67:PHE:N	2.66	0.53
34:BE:137:HIS:HB3	34:BE:138:PRO:CD	2.39	0.53
37:BH:85:LYS:O	37:BH:85:LYS:HD3	2.08	0.53
37:BH:89:ILE:O	37:BH:90:LYS:CG	2.56	0.53
41:BP:149:GLU:O	41:BP:149:GLU:HG3	2.08	0.53
43:BR:56:LYS:HE3	43:BR:94:TYR:OH	2.09	0.53
43:BR:117:VAL:HG13	43:BR:118:GLU:N	2.23	0.53
45:BT:41:ARG:NH1	45:BT:43:GLN:HA	2.23	0.53
50:BY:7:VAL:HB	50:BY:8:LYS:HD2	1.91	0.53
51:BZ:54:HIS:HE1	51:BZ:123:ASP:CG	2.17	0.53
1:CA:339:C:OP2	40:DO:97:ARG:NH1	2.42	0.53
1:CA:1118:C:C1'	1:CA:1179:A:C4	2.92	0.53
3:CC:42:LEU:HD11	3:CC:46:GLU:OE2	2.08	0.53
13:CM:79:LYS:O	13:CM:82:MET:HB3	2.08	0.53
17:CQ:31:LEU:O	17:CQ:31:LEU:HG	2.08	0.53
20:CT:73:HIS:O	20:CT:74:LYS:C	2.52	0.53
22:D0:70:GLN:OE1	22:D0:72:ARG:HD2	2.09	0.53
24:D2:12:GLU:C	24:D2:12:GLU:CD	2.77	0.53
28:D6:10:LEU:N	28:D6:10:LEU:CD2	2.71	0.53
30:D8:62:LEU:O	30:D8:64:TYR:N	2.42	0.53
31:DA:154(A):C:H5	31:DA:171:G:N1	2.07	0.53
31:DA:243:U:C2'	31:DA:244:A:H5'	2.39	0.53
31:DA:287:C:N4	31:DA:354:G:H1	2.05	0.53
31:DA:1050:A:C2	31:DA:2751:G:C4	2.97	0.53
31:DA:1533:G:O2'	31:DA:1543:C:OP1	2.27	0.53
31:DA:1925:C:O2'	31:DA:1926:U:H5'	2.09	0.53
31:DA:2443:C:O2'	31:DA:2444:G:H5'	2.09	0.53
31:DA:2580:U:C5'	34:DE:131:ALA:H	2.21	0.53
31:DA:2606:C:C2'	31:DA:2607:G:H5'	2.39	0.53
32:DB:10:C:C4	32:DB:11:C:C5	2.96	0.53
32:DB:15:A:H1'	32:DB:110:G:N9	2.24	0.53
32:DB:60:C:C2	32:DB:61:G:C8	2.97	0.53
33:DD:161:THR:HG23	33:DD:196:VAL:CG2	2.39	0.53
35:DF:117:ARG:HH21	35:DF:187:VAL:HA	1.73	0.53
39:DN:27:ALA:CB	39:DN:106:MET:CE	2.87	0.53
47:DV:15:GLU:CB	47:DV:16:PRO:HD2	2.35	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DZ:95:PRO:HA	51:DZ:129:SER:HA	1.91	0.53
1:AA:475:G:O2'	1:AA:476:G:H5'	2.08	0.53
1:AA:778:G:H2'	1:AA:779:C:O5'	2.09	0.53
1:AA:836:G:C6	1:AA:851:G:C6	2.97	0.53
1:AA:947:G:H2'	1:AA:948:C:C6	2.44	0.53
4:AD:121:VAL:O	4:AD:134:ASP:HA	2.09	0.53
6:AF:69:GLU:HG2	6:AF:70:ASP:N	2.23	0.53
7:AG:70:LYS:HB3	7:AG:96:GLN:OE1	2.09	0.53
13:AM:3:ARG:HH21	36:BG:146:TYR:HB2	1.74	0.53
16:AP:39:TYR:HA	16:AP:48:TRP:O	2.09	0.53
26:B4:19:GLY:O	26:B4:21:VAL:N	2.42	0.53
30:B8:34:TRP:HZ3	30:B8:41:ILE:CD1	2.22	0.53
31:BA:1914:C:H2'	31:BA:1915:U:O4'	2.09	0.53
31:BA:2199:A:H3'	31:BA:2200:C:C6	2.40	0.53
40:BO:3:GLN:CB	40:BO:4:PRO:HD2	2.39	0.53
50:BY:77:PRO:O	50:BY:78:ALA:HB2	2.08	0.53
1:CA:304:U:H2'	1:CA:305:G:C8	2.44	0.53
1:CA:1086:U:H2'	1:CA:1087:G:C8	2.40	0.53
1:CA:1133:G:N3	1:CA:1142:G:N2	2.57	0.53
1:CA:1152:A:H5"	10:CJ:13:HIS:CD2	2.44	0.53
1:CA:1456:G:OP1	1:CA:1456:G:O4'	2.27	0.53
6:CF:98:LEU:HD22	18:CR:28:GLU:HB3	1.90	0.53
7:CG:153:HIS:CE1	11:CK:57:THR:HG23	2.43	0.53
15:CO:18:PHE:CE1	15:CO:21:ASP:HB2	2.44	0.53
16:CP:14:ASN:OD1	16:CP:16:HIS:CE1	2.61	0.53
16:CP:21:VAL:HG22	16:CP:34:GLU:O	2.08	0.53
31:DA:94:C:H2'	31:DA:94:C:O2	2.08	0.53
31:DA:1472:A:H2'	31:DA:1473:G:C8	2.44	0.53
31:DA:2404:C:C2'	31:DA:2405:G:C5'	2.87	0.53
31:DA:2661:G:P	31:DA:2661:G:O4'	2.67	0.53
36:DG:16:ARG:O	36:DG:20:ILE:HG13	2.09	0.53
45:DT:28:VAL:HG13	45:DT:46:GLU:HA	1.91	0.53
1:AA:380:G:N2	1:AA:384:G:C5	2.77	0.52
1:AA:862:C:H2'	1:AA:863:U:C5'	2.38	0.52
1:AA:1191:A:H5"	3:AC:4:LYS:HZ2	1.74	0.52
1:AA:1226:C:H2'	13:AM:103:THR:OG1	2.10	0.52
6:AF:98:LEU:HD22	18:AR:28:GLU:HB3	1.90	0.52
18:AR:36:ASN:ND2	18:AR:39:VAL:HG21	2.24	0.52
23:B1:75:GLU:O	23:B1:76:ARG:HD3	2.09	0.52
28:B6:42:TRP:HZ2	31:BA:642:G:O3'	1.92	0.52
30:B8:3:LYS:HE3	31:BA:242:G:O5'	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:50:LEU:O	30:B8:52:LYS:N	2.42	0.52
31:BA:146:G:H8	31:BA:146:G:C5'	2.16	0.52
31:BA:154:G:N1	31:BA:154(A):C:N4	2.53	0.52
31:BA:197:A:N6	31:BA:2430:A:H2'	2.24	0.52
31:BA:1141:U:H6	39:BN:63:THR:HB	1.74	0.52
31:BA:2272:U:H5"	31:BA:2273:A:OP1	2.09	0.52
31:BA:2660:A:H5'	31:BA:2661:G:N2	2.22	0.52
31:BA:2762:G:H2'	31:BA:2763:G:H5'	1.91	0.52
33:BD:24:ILE:O	33:BD:24:ILE:HG23	2.08	0.52
33:BD:25:THR:HG21	33:BD:82:ILE:H	1.74	0.52
33:BD:153:ALA:O	33:BD:154:LYS:HG3	2.09	0.52
34:BE:101:ARG:HB3	34:BE:169:ASN:HD22	1.73	0.52
34:BE:119:ARG:HG2	34:BE:160:TYR:CG	2.44	0.52
36:BG:118:ARG:H	36:BG:181:ARG:NH2	2.07	0.52
38:BI:88:ILE:HD11	38:BI:123:LEU:CD2	2.38	0.52
39:BN:104:LYS:HB2	39:BN:117:PHE:CE1	2.44	0.52
39:BN:128:HIS:O	39:BN:130:HIS:N	2.41	0.52
42:BQ:52:VAL:O	42:BQ:56:ARG:HB2	2.09	0.52
43:BR:75:LEU:HD13	43:BR:75:LEU:C	2.34	0.52
45:BT:31:SER:CA	45:BT:32:TYR:CD2	2.92	0.52
45:BT:57:PHE:O	45:BT:59:THR:N	2.41	0.52
49:BX:60:ARG:HE	49:BX:74:PRO:HG3	1.74	0.52
1:CA:35:G:C6	1:CA:36:C:N4	2.76	0.52
1:CA:167:G:C2'	1:CA:168:G:H5'	2.40	0.52
1:CA:192:U:H2'	1:CA:193:C:H6	1.74	0.52
1:CA:586:C:C2'	1:CA:587:G:H5'	2.39	0.52
1:CA:667:G:H4'	15:CO:51:HIS:ND1	2.24	0.52
1:CA:673:G:O3'	6:CF:87:ARG:NH2	2.42	0.52
1:CA:685:G:N2	1:CA:686:U:C4	2.78	0.52
1:CA:930:C:O2'	1:CA:931:C:H5'	2.10	0.52
7:CG:89:MET:HE1	7:CG:156:TRP:CD1	2.45	0.52
7:CG:145:ALA:O	7:CG:147:ALA:N	2.41	0.52
8:CH:44:PHE:HD1	8:CH:80:ILE:HG12	1.74	0.52
10:CJ:29:ARG:HG2	10:CJ:29:ARG:O	2.08	0.52
10:CJ:40:LEU:HD23	10:CJ:40:LEU:H	1.74	0.52
10:CJ:54:PHE:CZ	10:CJ:55:LYS:NZ	2.74	0.52
12:CL:18:VAL:O	12:CL:19:ARG:HB3	2.08	0.52
16:CP:22:THR:CG2	16:CP:32:TYR:HA	2.39	0.52
16:CP:68:ASP:C	16:CP:70:ALA:H	2.17	0.52
18:CR:76:LEU:HD23	18:CR:76:LEU:N	2.24	0.52
19:CS:29:ARG:HD2	19:CS:30:LEU:N	2.24	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:84:LEU:C	20:CT:84:LEU:HD13	2.34	0.52
23:D1:9:GLY:O	23:D1:10:LYS:HE2	2.09	0.52
30:D8:22:VAL:HB	30:D8:53:PRO:CB	2.39	0.52
31:DA:32:C:C2'	31:DA:33:U:H5'	2.39	0.52
31:DA:624:C:C2'	31:DA:625:G:H5'	2.40	0.52
31:DA:720:C:C2'	31:DA:721:C:H5'	2.39	0.52
31:DA:769:G:O2'	31:DA:770:G:H5'	2.09	0.52
31:DA:883:G:H1	31:DA:893:C:H41	1.55	0.52
31:DA:1319:G:C6	31:DA:1320:C:N4	2.77	0.52
33:DD:65:ILE:HD11	33:DD:67:PHE:HE1	1.61	0.52
33:DD:83:GLU:HB2	33:DD:92:ILE:HD11	1.91	0.52
33:DD:206:LEU:HD22	33:DD:211:ARG:HG3	1.92	0.52
36:DG:132:ASN:OD1	36:DG:158:ALA:HA	2.09	0.52
39:DN:40:PRO:C	46:DU:64:ARG:NH2	2.67	0.52
39:DN:78:TYR:CE1	39:DN:79:PRO:HB3	2.44	0.52
39:DN:128:HIS:O	39:DN:129:PRO:C	2.52	0.52
40:DO:87:ILE:HG23	40:DO:88:ASN:O	2.09	0.52
42:DQ:22:LYS:HE2	42:DQ:22:LYS:CA	2.23	0.52
43:DR:21:TYR:OH	43:DR:43:GLU:HG2	2.09	0.52
44:DS:30:ARG:HD2	44:DS:31:SER:O	2.09	0.52
44:DS:89:ARG:O	44:DS:90:GLY:O	2.26	0.52
45:DT:106:SER:O	45:DT:107:ASP:CB	2.56	0.52
46:DU:69:CYS:HB3	46:DU:106:PHE:CE2	2.43	0.52
1:AA:17:U:C2	1:AA:18:C:C5	2.98	0.52
1:AA:379:C:O2'	1:AA:380:G:H5'	2.10	0.52
1:AA:561:U:O2'	1:AA:562:C:OP1	2.26	0.52
1:AA:1530:G:H2'	1:AA:1531:A:O5'	2.09	0.52
3:AC:66:VAL:HG12	3:AC:66:VAL:O	2.09	0.52
3:AC:109:PRO:HA	3:AC:115:LEU:HD12	1.91	0.52
4:AD:91:SER:HA	4:AD:94:LEU:HD12	1.91	0.52
10:AJ:32:ALA:CB	10:AJ:76:ASN:HB3	2.34	0.52
11:AK:21:ILE:HB	11:AK:84:VAL:HG12	1.90	0.52
23:B1:30:VAL:O	23:B1:30:VAL:CG1	2.56	0.52
23:B1:85:LEU:CA	23:B1:87:PRO:HD3	2.39	0.52
31:BA:84:A:H5"	50:BY:9:LYS:HD2	1.89	0.52
31:BA:154:G:H2'	31:BA:154(A):C:O2	2.09	0.52
31:BA:271(X):G:H2'	31:BA:271(Y):U:H5"	1.91	0.52
31:BA:528:A:H3'	31:BA:528:A:C8	2.44	0.52
31:BA:1278:A:O3'	43:BR:34:ILE:CD1	2.57	0.52
31:BA:1508:A:O2'	31:BA:1509:C:P	2.66	0.52
31:BA:2036:C:H6	31:BA:2036:C:C5'	2.17	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2761:G:C3'	31:BA:2762:G:H5"	2.38	0.52
32:BB:7:G:H5'	44:BS:29:PHE:CZ	2.43	0.52
32:BB:60:C:C2	32:BB:61:G:C8	2.98	0.52
35:BF:4:VAL:HG13	35:BF:17:ARG:HB3	1.92	0.52
35:BF:20:LEU:HD13	35:BF:203:GLN:NE2	2.23	0.52
36:BG:135:LEU:HD23	36:BG:140:ILE:HD11	1.90	0.52
37:BH:103:LEU:HD23	37:BH:115:VAL:HB	1.91	0.52
37:BH:103:LEU:HD11	37:BH:105:LEU:HD11	1.91	0.52
38:BI:71:ILE:HG13	38:BI:72:LEU:HD23	1.91	0.52
42:BQ:140:ALA:CB	51:BZ:53:ILE:HG13	2.32	0.52
43:BR:113:LEU:C	43:BR:113:LEU:HD12	2.33	0.52
45:BT:31:SER:HA	45:BT:32:TYR:CD2	2.44	0.52
45:BT:118:ARG:O	45:BT:119:LYS:C	2.51	0.52
46:BU:92:ARG:NH1	47:BV:11:GLN:O	2.42	0.52
46:BU:117:GLN:OE1	46:BU:117:GLN:HA	2.09	0.52
47:BV:15:GLU:O	47:BV:98:GLU:OE2	2.27	0.52
1:CA:189:G:C6	1:CA:189(L):G:N1	2.78	0.52
1:CA:369:C:H2'	1:CA:369:C:O2	2.09	0.52
1:CA:770:C:O2'	1:CA:771:G:H5'	2.09	0.52
1:CA:1203:C:H2'	1:CA:1204:A:C8	2.44	0.52
1:CA:1516:G:H2'	1:CA:1518:A:OP2	2.10	0.52
2:CB:163:PHE:HA	2:CB:185:ILE:O	2.09	0.52
2:CB:211:ILE:O	2:CB:215:LEU:HD23	2.09	0.52
4:CD:65:ARG:HG3	4:CD:75:PHE:CD1	2.43	0.52
10:CJ:32:ALA:HB1	10:CJ:75:ILE:HG13	1.91	0.52
12:CL:62:SER:O	12:CL:64:TYR:HD1	1.92	0.52
16:CP:39:TYR:HA	16:CP:48:TRP:O	2.09	0.52
31:DA:18:C:H2'	31:DA:19:C:C6	2.45	0.52
31:DA:465:G:H2'	31:DA:466:A:C8	2.43	0.52
31:DA:923:C:H2'	31:DA:924:C:C6	2.44	0.52
31:DA:1131:G:OP1	39:DN:80:GLY:HA2	2.09	0.52
31:DA:1162:G:H1'	47:DV:91:TYR:OH	2.09	0.52
31:DA:1278:A:O3'	43:DR:34:ILE:CD1	2.58	0.52
31:DA:1497:U:H2'	31:DA:1497:U:O2	2.07	0.52
31:DA:1721:G:H8	31:DA:1741:A:H62	1.56	0.52
31:DA:1751:C:O4'	31:DA:2860:A:C2	2.62	0.52
31:DA:1844:C:OP1	33:DD:257:LEU:HD23	2.09	0.52
31:DA:1902:C:H2'	31:DA:1903:G:O5'	2.09	0.52
31:DA:2302:G:H21	36:DG:128:ARG:HB3	1.75	0.52
31:DA:2410:G:C2	31:DA:2411:A:H1'	2.43	0.52
31:DA:2713:A:C3'	31:DA:2714:G:C5'	2.87	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DB:13:A:H2'	32:DB:70:C:O2'	2.09	0.52
34:DE:27:LEU:CD2	45:DT:1:MET:HE2	2.31	0.52
34:DE:111:ARG:HG3	43:DR:2:ARG:HG3	1.91	0.52
34:DE:195:LEU:HG	34:DE:196:VAL:N	2.23	0.52
34:DE:201:THR:HG22	34:DE:202:LYS:H	1.73	0.52
36:DG:16:ARG:HH12	36:DG:31:VAL:HG21	1.73	0.52
36:DG:43:LEU:CD1	36:DG:153:ARG:HD2	2.38	0.52
38:DI:21:VAL:HG21	38:DI:26:ALA:HB2	1.90	0.52
42:DQ:35:VAL:CG1	42:DQ:130:LYS:HB3	2.38	0.52
47:DV:25:LEU:N	47:DV:94:LEU:HD13	2.24	0.52
48:DW:64:MET:O	48:DW:65:LEU:CB	2.54	0.52
50:DY:60:PHE:HA	50:DY:62:GLU:OE2	2.09	0.52
51:DZ:108:PRO:O	51:DZ:109:ALA:C	2.52	0.52
1:AA:592:G:H2'	1:AA:593:G:H8	1.75	0.52
1:AA:1442(A):G:C3'	1:AA:1442(B):A:H5"	2.27	0.52
4:AD:79:PHE:CZ	4:AD:204:ILE:HA	2.44	0.52
5:AE:137:GLU:O	5:AE:141:GLN:HG3	2.08	0.52
6:AF:3:ARG:NH1	6:AF:38:GLU:OE2	2.42	0.52
6:AF:76:ALA:HB1	6:AF:80:ARG:HH21	1.74	0.52
8:AH:87:SER:HA	8:AH:93:VAL:HB	1.92	0.52
12:AL:119:LYS:O	12:AL:120:TYR:HB2	2.08	0.52
13:AM:92:HIS:CE1	13:AM:98:VAL:HG23	2.45	0.52
17:AQ:13:ASP:H	17:AQ:14:LYS:HZ2	1.55	0.52
17:AQ:40:LYS:HD2	17:AQ:42:TYR:CE1	2.44	0.52
23:B1:41:ARG:HH12	31:BA:189:G:P	2.32	0.52
24:B2:45:SER:HA	24:B2:47:ASN:HD21	1.75	0.52
30:B8:35:GLN:HE21	30:B8:36:LYS:HG3	1.74	0.52
31:BA:329:G:H1	50:BY:19:LYS:HE3	1.75	0.52
31:BA:330:A:O2'	31:BA:331:A:C8	2.63	0.52
31:BA:521:G:H2'	31:BA:522:G:C8	2.44	0.52
31:BA:1142(A):A:C5	31:BA:1144:G:C5	2.97	0.52
31:BA:2850:A:OP2	31:BA:2866:U:H5	1.92	0.52
33:BD:4:LYS:NZ	33:BD:20:ASP:HA	2.24	0.52
33:BD:221:VAL:HG22	33:BD:226:MET:CE	2.37	0.52
34:BE:67:PHE:O	34:BE:69:LYS:N	2.43	0.52
34:BE:93:VAL:C	34:BE:95:ILE:H	2.18	0.52
36:BG:57:ALA:HB2	36:BG:90:LEU:HD21	1.91	0.52
37:BH:105:LEU:HD22	37:BH:105:LEU:H	1.74	0.52
37:BH:149:ARG:HD3	37:BH:164:TYR:HE1	1.74	0.52
39:BN:87:LEU:O	39:BN:88:GLU:C	2.52	0.52
41:BP:98:GLU:HG3	41:BP:99:LEU:H	1.72	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BR:10:LEU:HD22	43:BR:17:ARG:CD	2.40	0.52
45:BT:36:GLU:C	45:BT:38:ASN:H	2.16	0.52
46:BU:83:LEU:HD13	46:BU:113:ALA:HB2	1.91	0.52
51:BZ:145:GLU:O	51:BZ:147:GLY:N	2.43	0.52
1:CA:438:G:O2'	1:CA:493:G:C2	2.58	0.52
1:CA:557:G:H2'	1:CA:558:G:C8	2.44	0.52
1:CA:661:G:C2	1:CA:662:G:C8	2.98	0.52
1:CA:710:G:H5"	6:CF:54:LYS:HE3	1.91	0.52
1:CA:926:G:H5"	1:CA:927:G:O5'	2.08	0.52
2:CB:29:ALA:C	2:CB:31:TYR:N	2.66	0.52
2:CB:189:ASP:OD1	2:CB:205:ASP:HB3	2.08	0.52
3:CC:7:PRO:O	3:CC:11:ARG:HG2	2.10	0.52
3:CC:109:PRO:HA	3:CC:115:LEU:HD12	1.92	0.52
4:CD:8:VAL:O	4:CD:10:ARG:N	2.41	0.52
4:CD:131:ARG:HD3	4:CD:131:ARG:H	1.74	0.52
4:CD:204:ILE:HG21	5:CE:98:THR:O	2.09	0.52
9:CI:17:VAL:HG13	9:CI:63:ILE:HG13	1.90	0.52
23:D1:30:VAL:O	23:D1:30:VAL:CG1	2.57	0.52
24:D2:54:LYS:H	24:D2:56:GLN:HE21	1.58	0.52
31:DA:174:C:C3'	31:DA:175:G:H5"	2.39	0.52
31:DA:196:A:H2'	31:DA:196:A:N3	2.23	0.52
31:DA:387:U:H4'	31:DA:388:G:O5'	2.10	0.52
31:DA:641:C:O2'	31:DA:2350:C:OP1	2.18	0.52
31:DA:1380:G:N2	31:DA:1570:A:C2	2.76	0.52
31:DA:2558:C:H2'	31:DA:2559:C:O5'	2.10	0.52
31:DA:2654:A:H1'	31:DA:2656:U:C5	2.45	0.52
31:DA:2758:A:C3'	31:DA:2759:G:H5"	2.39	0.52
32:DB:82:G:O2'	32:DB:83:G:H5'	2.08	0.52
33:DD:172:TYR:CD1	33:DD:186:HIS:CA	2.92	0.52
34:DE:2:LYS:HB3	34:DE:95:ILE:CG2	2.39	0.52
37:DH:149:ARG:HD3	37:DH:164:TYR:HE1	1.74	0.52
39:DN:47:ALA:CB	39:DN:112:LEU:HD11	2.34	0.52
39:DN:65:LYS:C	39:DN:66:LYS:HG2	2.32	0.52
41:DP:102:ARG:O	41:DP:103:ALA:CB	2.58	0.52
49:DX:37:THR:HG23	49:DX:54:VAL:HG21	1.91	0.52
1:AA:336:C:H2'	1:AA:337:C:H6	1.74	0.52
1:AA:590:C:H2'	1:AA:591:U:C6	2.44	0.52
1:AA:721:G:H4'	1:AA:722:A:O4'	2.09	0.52
1:AA:781:A:H2'	1:AA:782:A:H5'	1.91	0.52
1:AA:1058:G:C6	1:AA:1059:C:N3	2.78	0.52
5:AE:76:ILE:HG12	5:AE:77:PRO:HD2	1.90	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:86:ILE:CG2	8:AH:87:SER:H	2.02	0.52
10:AJ:32:ALA:HB1	10:AJ:75:ILE:CG1	2.39	0.52
10:AJ:46:ARG:HD3	14:AN:61:TRP:CZ3	2.44	0.52
10:AJ:94:VAL:HG12	10:AJ:95:GLU:N	2.25	0.52
20:AT:73:HIS:H	20:AT:76:ALA:HB3	1.75	0.52
28:B6:19:ARG:O	28:B6:20:ASN:O	2.27	0.52
31:BA:107:C:H2'	31:BA:108:U:C6	2.41	0.52
31:BA:271(H):G:O2'	31:BA:271(I):G:OP2	2.25	0.52
31:BA:543:C:H42	31:BA:551:G:H1	1.56	0.52
31:BA:1638:C:H5"	31:BA:2710:C:O2'	2.09	0.52
31:BA:2580:U:C5'	34:BE:131:ALA:CB	2.87	0.52
31:BA:2762:G:H2'	31:BA:2763:G:C5'	2.39	0.52
32:BB:28:C:H2'	32:BB:29:A:H8	1.74	0.52
33:BD:35:LYS:HE3	33:BD:63:ARG:C	2.34	0.52
38:BI:107:VAL:CG1	38:BI:108:THR:N	2.73	0.52
42:BQ:20:ALA:C	42:BQ:22:LYS:H	2.17	0.52
44:BS:42:ASP:C	44:BS:44:LYS:N	2.59	0.52
47:BV:2:PHE:CD2	47:BV:42:GLY:HA2	2.44	0.52
47:BV:23:GLU:O	47:BV:24:LYS:C	2.53	0.52
47:BV:36:PRO:HD3	47:BV:60:GLU:O	2.09	0.52
49:BX:31:HIS:CD2	49:BX:33:LYS:H	2.27	0.52
1:CA:189(D):C:H1'	1:CA:189(H):G:N2	2.25	0.52
1:CA:437:U:O2'	1:CA:438:G:H5'	2.10	0.52
1:CA:1030(D):A:N7	1:CA:1031:G:N3	2.56	0.52
1:CA:1477:C:H2'	1:CA:1478:C:C6	2.44	0.52
4:CD:148:VAL:HG12	4:CD:149:ALA:N	2.24	0.52
15:CO:78:TYR:OH	15:CO:88:ARG:HD2	2.10	0.52
16:CP:74:LEU:O	16:CP:79:VAL:HG23	2.09	0.52
19:CS:29:ARG:HD3	19:CS:48:THR:OG1	2.09	0.52
20:CT:95:ALA:O	20:CT:97:ALA:N	2.43	0.52
26:D4:1:MET:N	36:DG:67:LYS:NZ	2.57	0.52
27:D5:41:PRO:O	27:D5:44:THR:OG1	2.27	0.52
31:DA:493:G:H2'	31:DA:494:G:O4'	2.10	0.52
31:DA:521:G:H2'	31:DA:522:G:C8	2.44	0.52
31:DA:643:A:H2'	31:DA:644:A:O5'	2.09	0.52
31:DA:668:G:C5'	31:DA:669:G:OP2	2.57	0.52
31:DA:724:U:H2'	31:DA:725:G:O4'	2.10	0.52
31:DA:923:C:O2'	31:DA:924:C:H5'	2.10	0.52
31:DA:997:G:O2'	31:DA:998:C:H5'	2.10	0.52
31:DA:1665:A:H4'	40:DO:67:LYS:HB2	1.90	0.52
31:DA:1666:G:H2'	31:DA:1667:G:H5'	1.89	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1742:G:N7	31:DA:1743:C:N3	2.57	0.52
31:DA:1779:U:C2	31:DA:1783:A:N7	2.77	0.52
31:DA:1902:C:H1'	33:DD:244:ARG:CD	2.40	0.52
31:DA:2020:A:OP1	46:DU:26:GLY:HA3	2.09	0.52
31:DA:2460:U:H2'	31:DA:2461:C:H6	1.73	0.52
32:DB:33:G:C2'	32:DB:34:U:H5'	2.40	0.52
32:DB:40:U:H3	32:DB:43:C:H5"	1.75	0.52
32:DB:44:G:N2	32:DB:48:A:C4	2.77	0.52
32:DB:79:C:O2'	32:DB:80:U:H5'	2.08	0.52
34:DE:59:VAL:C	34:DE:60:ASN:ND2	2.68	0.52
36:DG:48:GLU:O	36:DG:49:ASP:HB2	2.09	0.52
41:DP:10:PRO:CD	41:DP:11:GLY:N	2.70	0.52
42:DQ:14:ARG:HG2	42:DQ:41:TRP:CH2	2.45	0.52
42:DQ:34:LEU:HB2	42:DQ:118:LEU:HD22	1.92	0.52
44:DS:35:ILE:H	44:DS:53:SER:HB2	1.75	0.52
45:DT:107:ASP:OD1	45:DT:109:GLU:HB2	2.09	0.52
49:DX:53:LYS:HE3	49:DX:55:ASN:ND2	2.22	0.52
49:DX:54:VAL:C	49:DX:55:ASN:HD22	2.17	0.52
51:DZ:109:ALA:O	51:DZ:144:LEU:O	2.26	0.52
51:DZ:150:LEU:HA	51:DZ:151:HIS:HD2	1.75	0.52
1:AA:44:G:N2	1:AA:399:G:C4	2.77	0.52
1:AA:783:C:C2'	1:AA:784:C:H5'	2.40	0.52
1:AA:939:G:C6	1:AA:940:C:N4	2.78	0.52
1:AA:949:A:N6	1:AA:1232:U:H3	2.02	0.52
1:AA:1003:G:N3	1:AA:1004:A:H1'	2.24	0.52
1:AA:1157:A:C4	1:AA:1181:G:N2	2.77	0.52
1:AA:1422:G:O3'	40:BO:49:ARG:NH2	2.43	0.52
1:AA:1492:A:H5'	1:AA:1493:A:OP2	2.08	0.52
2:AB:21:ARG:HB2	2:AB:38:GLY:O	2.10	0.52
3:AC:136:GLN:HG2	3:AC:140:ARG:NH2	2.24	0.52
3:AC:155:GLY:O	3:AC:156:ARG:HB2	2.10	0.52
9:AI:19:LEU:HB3	9:AI:59:PHE:HD2	1.74	0.52
9:AI:105:ASP:OD2	9:AI:107:ARG:HD3	2.09	0.52
10:AJ:39:PRO:HB3	10:AJ:70:ARG:NH1	2.24	0.52
12:AL:62:SER:O	12:AL:64:TYR:HD1	1.92	0.52
15:AO:18:PHE:CE1	15:AO:21:ASP:HB2	2.45	0.52
17:AQ:65:ILE:HD12	17:AQ:65:ILE:N	2.23	0.52
22:B0:1:MET:HA	31:BA:2451:A:H4'	1.92	0.52
23:B1:25:LYS:O	23:B1:26:ARG:CB	2.56	0.52
24:B2:30:ARG:HH21	49:BX:11:PRO:HG3	1.72	0.52
28:B6:40:CYS:SG	28:B6:45:LYS:HD3	2.49	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1701:A:H2'	31:BA:1702:G:H5'	1.90	0.52
31:BA:2280:G:C2'	31:BA:2281:C:H5'	2.40	0.52
31:BA:2302:G:H21	36:BG:128:ARG:HB3	1.73	0.52
31:BA:2870:C:C2'	31:BA:2871:C:H5'	2.40	0.52
32:BB:13:A:O2'	32:BB:15:A:O5'	2.26	0.52
33:BD:133:LEU:HB3	33:BD:173:VAL:HG11	1.92	0.52
34:BE:75:VAL:C	34:BE:77:ILE:N	2.68	0.52
39:BN:13:TRP:CZ3	39:BN:130:HIS:CE1	2.96	0.52
40:BO:87:ILE:HG23	40:BO:88:ASN:O	2.10	0.52
44:BS:66:ALA:HA	44:BS:69:VAL:CG1	2.39	0.52
46:BU:8:VAL:HG12	46:BU:9:VAL:N	2.23	0.52
47:BV:47:VAL:HG21	47:BV:49:THR:HB	1.92	0.52
48:BW:4:LYS:HE3	48:BW:6:ILE:HD11	1.92	0.52
1:CA:270:A:C5	1:CA:271:C:C4	2.97	0.52
1:CA:410:G:H1'	1:CA:432:A:N6	2.24	0.52
1:CA:552:U:O2'	1:CA:553:A:H5'	2.10	0.52
1:CA:832:C:H42	1:CA:854:G:H1	1.58	0.52
1:CA:1076:C:C2	1:CA:1082:G:N2	2.77	0.52
1:CA:1378:C:N4	1:CA:1379:G:C2	2.77	0.52
2:CB:84:GLU:O	2:CB:219:VAL:HG11	2.09	0.52
2:CB:87:ARG:HH21	2:CB:233:SER:HB3	1.74	0.52
4:CD:58:LEU:HD22	4:CD:62:GLN:CG	2.37	0.52
8:CH:63:LEU:N	8:CH:63:LEU:HD22	2.24	0.52
9:CI:19:LEU:HB3	9:CI:59:PHE:HD2	1.74	0.52
16:CP:12:LYS:O	16:CP:13:HIS:HB2	2.08	0.52
31:DA:30:G:H2'	31:DA:31:C:C6	2.44	0.52
31:DA:492:A:H2'	31:DA:493:G:O4'	2.09	0.52
31:DA:547:A:O2'	31:DA:548:A:OP2	2.27	0.52
31:DA:1629:U:O2'	31:DA:1630:G:H5'	2.10	0.52
31:DA:2417:C:C2	31:DA:2418:A:C8	2.97	0.52
31:DA:2648:C:H2'	31:DA:2649:U:H6	1.74	0.52
31:DA:2733:A:C2'	31:DA:2734:A:H5'	2.39	0.52
31:DA:2752:C:C4	31:DA:2753:A:N7	2.77	0.52
34:DE:70:ALA:O	34:DE:72:VAL:C	2.52	0.52
35:DF:160:ASN:HD22	35:DF:162:LEU:N	2.08	0.52
38:DI:29:TYR:C	38:DI:32:PRO:HD2	2.34	0.52
38:DI:35:LEU:N	38:DI:35:LEU:HD23	2.25	0.52
38:DI:56:LYS:HZ2	38:DI:57:ARG:CA	2.23	0.52
40:DO:2:ILE:HD12	40:DO:6:THR:HG21	1.92	0.52
40:DO:26:LYS:HE3	40:DO:37:ASP:CG	2.34	0.52
42:DQ:20:ALA:C	42:DQ:22:LYS:H	2.17	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DV:18:LEU:O	47:DV:19:LYS:HB2	2.09	0.52
47:DV:70:ILE:HG13	47:DV:71:LEU:N	2.25	0.52
49:DX:72:LYS:CG	49:DX:74:PRO:HD3	2.35	0.52
51:DZ:40:ASP:OD1	51:DZ:42:VAL:HG12	2.10	0.52
1:AA:767:A:H2'	1:AA:768:A:O4'	2.09	0.52
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.74	0.52
1:AA:1125:U:H3	10:AJ:5:ARG:NH1	2.08	0.52
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.44	0.52
1:AA:1233:G:P	9:AI:124:GLN:HB2	2.50	0.52
1:AA:1239:A:H62	1:AA:1299:A:H62	1.57	0.52
2:AB:208:ILE:HA	2:AB:211:ILE:HD12	1.91	0.52
4:AD:8:VAL:HG12	4:AD:21:LEU:HD12	1.91	0.52
7:AG:32:ARG:O	7:AG:33:ASP:HB2	2.09	0.52
12:AL:102:ARG:HD2	12:AL:108:ALA:O	2.09	0.52
15:AO:54:ARG:HG2	15:AO:58:MET:CE	2.40	0.52
25:B3:2:PRO:O	25:B3:39:ASP:HB2	2.09	0.52
31:BA:243:U:O2'	31:BA:244:A:H5'	2.10	0.52
31:BA:848:G:C2	31:BA:933:A:H1'	2.45	0.52
31:BA:1508:A:C2'	31:BA:1509:C:OP1	2.58	0.52
31:BA:1669:A:H5"	31:BA:1670:C:OP2	2.10	0.52
31:BA:2320:A:H2'	31:BA:2320:A:N3	2.24	0.52
32:BB:78:A:C2	32:BB:100:A:C4	2.98	0.52
34:BE:3:GLY:HA3	34:BE:81:ILE:HD12	1.92	0.52
34:BE:37:ARG:HD3	34:BE:44:TYR:CZ	2.44	0.52
37:BH:98:LEU:HD22	37:BH:125:VAL:HG23	1.91	0.52
39:BN:33:LEU:HD12	39:BN:38:HIS:CE1	2.45	0.52
41:BP:95:VAL:HA	41:BP:99:LEU:HD23	1.91	0.52
42:BQ:85:LYS:HG3	42:BQ:86:GLY:N	2.25	0.52
45:BT:28:VAL:HG22	45:BT:46:GLU:HG3	1.90	0.52
50:BY:27:VAL:CB	50:BY:29:GLU:OE1	2.56	0.52
51:BZ:97:GLU:HB3	51:BZ:125:LEU:HD21	1.92	0.52
1:CA:428:G:C6	1:CA:430:A:C6	2.97	0.52
1:CA:585:G:O2'	12:CL:8:ASN:ND2	2.40	0.52
1:CA:632:A:N7	1:CA:633:G:C8	2.78	0.52
1:CA:683:G:C6	1:CA:684:A:C5	2.97	0.52
1:CA:840:C:H4'	1:CA:848:C:O2	2.09	0.52
1:CA:1152:A:O2'	1:CA:1153:C:H5'	2.09	0.52
3:CC:35:GLU:O	3:CC:39:ILE:HG13	2.09	0.52
4:CD:155:LEU:O	4:CD:159:ARG:HG2	2.09	0.52
18:CR:53:ARG:O	18:CR:55:ARG:N	2.43	0.52
22:D0:8:GLY:HA2	42:DQ:83:MET:CG	2.39	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D0:74:ARG:NH2	32:DB:13:A:OP2	2.43	0.52
23:D1:14:VAL:O	23:D1:46:LEU:HD23	2.09	0.52
23:D1:21:ARG:HD3	23:D1:21:ARG:C	2.35	0.52
24:D2:14:ARG:O	24:D2:18:PRO:CD	2.57	0.52
24:D2:26:ARG:NH1	24:D2:29:LYS:HE2	2.24	0.52
27:D5:33:CYS:SG	27:D5:49:CYS:HB3	2.48	0.52
29:D7:47:ARG:C	29:D7:48:LYS:HD3	2.35	0.52
30:D8:30:ARG:O	30:D8:31:HIS:O	2.27	0.52
30:D8:61:LEU:HD13	31:DA:593:G:O2'	2.10	0.52
31:DA:1142(A):A:N7	31:DA:1144:G:C5	2.78	0.52
31:DA:1179:C:C2'	31:DA:1180:C:H5"	2.40	0.52
31:DA:1412:A:H2'	31:DA:1413:G:C8	2.45	0.52
31:DA:1497:U:C2'	31:DA:1498:C:OP1	2.58	0.52
31:DA:1850:G:C5	31:DA:1851:U:C5	2.97	0.52
31:DA:2464:C:O2'	31:DA:2465:C:C5'	2.58	0.52
31:DA:2693:A:H2'	31:DA:2694:G:H8	1.75	0.52
31:DA:2818:G:C2'	31:DA:2819:G:H5'	2.40	0.52
32:DB:13:A:O2'	32:DB:15:A:O5'	2.28	0.52
33:DD:266:SER:O	33:DD:267:SER:CB	2.57	0.52
35:DF:57:VAL:HG13	35:DF:58:ALA:N	2.23	0.52
36:DG:111:LEU:HA	36:DG:114:ILE:CG1	2.40	0.52
41:DP:96:THR:O	41:DP:100:LEU:HB2	2.10	0.52
41:DP:144:GLU:N	41:DP:145:PRO:CD	2.73	0.52
45:DT:65:LYS:HG3	45:DT:66:VAL:N	2.24	0.52
47:DV:25:LEU:C	47:DV:27:ALA:H	2.17	0.52
48:DW:86:LEU:HD12	48:DW:87:PRO:CD	2.40	0.52
49:DX:89:ILE:HA	49:DX:92:LEU:HD12	1.92	0.52
51:DZ:52:SER:OG	51:DZ:53:ILE:N	2.41	0.52
1:AA:167:G:C2'	1:AA:168:G:H5'	2.39	0.52
1:AA:272:C:H2'	1:AA:273:A:H8	1.75	0.52
1:AA:632:A:N7	1:AA:633:G:C8	2.78	0.52
1:AA:683:G:C6	1:AA:684:A:C6	2.97	0.52
5:AE:55:VAL:O	5:AE:58:ALA:HB3	2.10	0.52
20:AT:96:GLY:O	20:AT:97:ALA:HB3	2.09	0.52
31:BA:302:C:O2'	31:BA:303:U:H5'	2.10	0.52
31:BA:746:A:H2'	31:BA:2612:C:H5"	1.92	0.52
31:BA:953:A:O2'	31:BA:954:G:H5'	2.08	0.52
31:BA:1040:C:O2'	31:BA:1041:C:OP2	2.26	0.52
31:BA:1533:G:C2'	31:BA:1543:C:OP1	2.57	0.52
31:BA:1992:G:H5'	31:BA:1994:C:H41	1.74	0.52
31:BA:2536:G:C6	31:BA:2537:U:C4	2.98	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2752:C:C4	31:BA:2753:A:N7	2.78	0.52
32:BB:42:C:O2	36:BG:93:THR:N	2.41	0.52
33:BD:63:ARG:HG3	33:BD:63:ARG:NH1	2.25	0.52
34:BE:57:LYS:O	34:BE:57:LYS:HG3	2.09	0.52
35:BF:154:VAL:HG22	35:BF:191:ARG:HB2	1.91	0.52
38:BI:37:VAL:CG1	38:BI:38:LEU:N	2.72	0.52
39:BN:132:ALA:O	39:BN:133:GLN:HB2	2.10	0.52
41:BP:99:LEU:HD12	41:BP:102:ARG:HH12	1.75	0.52
43:BR:12:ARG:HH11	43:BR:12:ARG:CG	2.22	0.52
44:BS:29:PHE:N	44:BS:89:ARG:CD	2.65	0.52
44:BS:85:VAL:CG2	44:BS:106:ARG:HB2	2.39	0.52
45:BT:32:TYR:CD2	45:BT:81:PRO:O	2.63	0.52
46:BU:88:ILE:O	46:BU:88:ILE:HD13	2.10	0.52
47:BV:73:SER:O	47:BV:74:LYS:HB2	2.10	0.52
47:BV:80:GLN:O	47:BV:81:TYR:N	2.43	0.52
49:BX:73:ARG:H	49:BX:74:PRO:HD3	1.75	0.52
50:BY:8:LYS:HB2	50:BY:28:LYS:HE2	1.90	0.52
50:BY:83:THR:CG2	50:BY:94:LYS:HB3	2.39	0.52
51:BZ:40:ASP:OD1	51:BZ:42:VAL:HG12	2.10	0.52
1:CA:1218:C:H2'	1:CA:1219:U:C6	2.45	0.52
1:CA:1316:G:O3'	14:CN:18:VAL:HG22	2.09	0.52
1:CA:1321:C:H5"	1:CA:1322:C:H2'	1.91	0.52
1:CA:1480:G:H2'	1:CA:1481:U:O4'	2.10	0.52
2:CB:77:ALA:HA	2:CB:80:ILE:CD1	2.39	0.52
4:CD:119:GLN:O	4:CD:123:HIS:HD2	1.92	0.52
12:CL:41:ARG:CG	12:CL:42:THR:H	2.23	0.52
19:CS:16:LEU:O	19:CS:20:LEU:HB2	2.10	0.52
19:CS:63:THR:CG2	19:CS:66:MET:HE3	2.40	0.52
20:CT:8:ARG:N	20:CT:8:ARG:HD2	2.24	0.52
24:D2:33:MET:HG2	49:DX:11:PRO:HD3	1.92	0.52
31:DA:1142(A):A:C5	31:DA:1144:G:C5	2.98	0.52
31:DA:1155:A:O2'	31:DA:1156:A:H2'	2.09	0.52
31:DA:1590:U:C2'	31:DA:1591:G:H5"	2.40	0.52
31:DA:1684:C:O2'	31:DA:1685:C:H5'	2.10	0.52
31:DA:2580:U:H4'	34:DE:130:GLY:CA	2.40	0.52
34:DE:3:GLY:HA3	34:DE:81:ILE:HD12	1.92	0.52
34:DE:167:VAL:HG11	34:DE:189:PRO:HD3	1.92	0.52
40:DO:35:VAL:HA	40:DO:62:VAL:CG1	2.40	0.52
42:DQ:54:MET:HG3	42:DQ:117:ALA:HB1	1.91	0.52
45:DT:28:VAL:HB	45:DT:88:ILE:HG13	1.91	0.52
48:DW:1:MET:CG	48:DW:64:MET:HE3	2.40	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DX:36:LYS:O	49:DX:38:GLU:N	2.43	0.52
51:DZ:30:ASN:HB3	51:DZ:90:VAL:HB	1.92	0.52
51:DZ:112:ARG:C	51:DZ:114:GLY:H	2.16	0.52
1:AA:658:G:C5	1:AA:659:U:C5	2.97	0.52
1:AA:659:U:H2'	1:AA:660:G:H5'	1.92	0.52
2:AB:51:LEU:HD23	2:AB:201:ILE:HD12	1.92	0.52
3:AC:42:LEU:HD11	3:AC:46:GLU:OE2	2.10	0.52
3:AC:52:LEU:H	3:AC:52:LEU:CD2	2.21	0.52
9:AI:4:TYR:CD2	9:AI:59:PHE:HE2	2.27	0.52
17:AQ:31:LEU:O	17:AQ:31:LEU:HG	2.09	0.52
19:AS:16:LEU:O	19:AS:20:LEU:HB2	2.09	0.52
19:AS:51:VAL:HG21	19:AS:71:LEU:HB3	1.91	0.52
20:AT:80:ARG:O	20:AT:84:LEU:HB2	2.10	0.52
24:B2:49:LYS:HB3	24:B2:53:LEU:HD23	1.90	0.52
25:B3:28:LEU:HA	25:B3:33:GLN:OE1	2.08	0.52
31:BA:128:C:C6	31:BA:128:C:C3'	2.93	0.52
31:BA:774:A:H2	31:BA:787:U:O2'	1.90	0.52
31:BA:918:A:H5"	32:BB:98:G:O2'	2.10	0.52
31:BA:971:C:H2'	31:BA:972:G:C5'	2.39	0.52
31:BA:1515:G:H2'	31:BA:1516:C:H6	1.72	0.52
31:BA:2590:A:H2'	31:BA:2591:C:C6	2.45	0.52
33:BD:11:PRO:O	33:BD:12:SER:C	2.53	0.52
34:BE:24:THR:HG21	34:BE:188:VAL:HG12	1.90	0.52
35:BF:96:ASP:OD1	35:BF:96:ASP:C	2.52	0.52
35:BF:160:ASN:HD22	35:BF:162:LEU:N	2.06	0.52
42:BQ:141:GLN:CG	51:BZ:72:ARG:HA	2.40	0.52
44:BS:65:VAL:O	44:BS:67:ARG:N	2.42	0.52
50:BY:71:LYS:HB2	50:BY:71:LYS:HZ2	1.75	0.52
51:BZ:39:VAL:CG2	51:BZ:44:PHE:HB2	2.39	0.52
1:CA:55:A:N7	1:CA:56:U:C5	2.77	0.52
1:CA:228:A:H2'	1:CA:229:U:O4'	2.09	0.52
1:CA:364:A:H2'	1:CA:365:U:O2	2.09	0.52
1:CA:430:A:O2'	1:CA:431:A:H5'	2.09	0.52
1:CA:579:G:C5	1:CA:580:U:C5	2.98	0.52
1:CA:729:A:H2'	1:CA:730:G:H8	1.75	0.52
1:CA:1052:U:H2'	1:CA:1055:A:OP1	2.10	0.52
2:CB:111:ARG:HH11	2:CB:111:ARG:CG	2.07	0.52
3:CC:6:HIS:CD2	3:CC:7:PRO:HD2	2.45	0.52
3:CC:66:VAL:O	3:CC:66:VAL:HG12	2.10	0.52
20:CT:67:ALA:O	20:CT:73:HIS:CE1	2.63	0.52
24:D2:41:ILE:O	24:D2:43:GLN:N	2.43	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D7:5:TRP:CD1	29:D7:7:PRO:HG3	2.45	0.52
31:DA:38:A:H2'	31:DA:39:C:C6	2.45	0.52
31:DA:271(Q):G:O2'	31:DA:271(R):G:OP2	2.24	0.52
31:DA:466:A:N3	31:DA:683:C:H1'	2.25	0.52
31:DA:482:A:H4'	50:DY:47:LYS:HZ2	1.72	0.52
31:DA:1448:G:O2'	31:DA:1528(A):A:N1	2.41	0.52
31:DA:1633:G:H8	31:DA:1633:G:O5'	1.92	0.52
31:DA:1694:C:O2'	31:DA:1695:G:C5	2.63	0.52
33:DD:63:ARG:HG3	33:DD:63:ARG:HH11	1.75	0.52
34:DE:37:ARG:HD3	34:DE:44:TYR:CZ	2.44	0.52
34:DE:44:TYR:O	34:DE:45:THR:HB	2.10	0.52
37:DH:54:ARG:HG2	37:DH:65:HIS:HD2	1.74	0.52
37:DH:127:GLU:HA	37:DH:127:GLU:OE1	2.08	0.52
42:DQ:68:ILE:HD13	42:DQ:103:MET:HE2	1.91	0.52
1:AA:89:C:OP1	1:AA:90:U:C4	2.63	0.52
1:AA:232:G:H1'	1:AA:262:A:N1	2.25	0.52
1:AA:501:C:H2'	1:AA:502:G:C8	2.44	0.52
1:AA:543:C:C2	1:AA:544:G:C8	2.98	0.52
1:AA:950:U:H2'	1:AA:951:G:C8	2.42	0.52
1:AA:983:A:H3'	1:AA:983:A:N3	2.25	0.52
1:AA:1077:G:C2	1:AA:1081:G:C5	2.97	0.52
1:AA:1240:U:H4'	7:AG:38:LEU:HD21	1.92	0.52
1:AA:1369:C:H2'	1:AA:1370:G:O4'	2.09	0.52
3:AC:6:HIS:CD2	3:AC:7:PRO:HD2	2.44	0.52
6:AF:5:GLU:HB3	6:AF:62:TRP:NE1	2.25	0.52
7:AG:70:LYS:HB3	7:AG:96:GLN:HB3	1.92	0.52
8:AH:123:GLU:O	8:AH:127:LEU:HB2	2.10	0.52
11:AK:34:ASP:HB3	11:AK:40:ILE:HD11	1.91	0.52
11:AK:73:MET:HG2	11:AK:103:LEU:HD11	1.91	0.52
13:AM:82:MET:HB2	13:AM:93:ARG:NH1	2.25	0.52
15:AO:71:GLN:HA	15:AO:78:TYR:HB2	1.92	0.52
16:AP:8:ARG:HG2	16:AP:9:PHE:N	2.25	0.52
19:AS:29:ARG:HD2	19:AS:30:LEU:N	2.24	0.52
20:AT:73:HIS:O	20:AT:74:LYS:C	2.53	0.52
22:B0:25:ARG:HD2	22:B0:29:GLN:NE2	2.25	0.52
30:B8:41:ILE:HD12	31:BA:2419:U:OP1	2.10	0.52
31:BA:157:U:H5'	31:BA:171:G:N2	2.25	0.52
31:BA:271(Q):G:OP1	38:BI:42:SER:OG	2.28	0.52
31:BA:883:G:H1	31:BA:893:C:H41	1.57	0.52
31:BA:1899:G:N2	31:BA:1902:C:C4	2.78	0.52
31:BA:2290:G:C2	31:BA:2343:C:O2	2.63	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2712:U:O2	31:BA:2712:U:C5'	2.55	0.52
40:BO:64:ARG:HG2	40:BO:79:PHE:CD1	2.45	0.52
41:BP:35:HIS:O	41:BP:36:LYS:CB	2.58	0.52
46:BU:27:LEU:N	46:BU:27:LEU:CD2	2.59	0.52
51:BZ:53:ILE:HG22	51:BZ:71:VAL:CB	2.39	0.52
1:CA:131:C:H2'	1:CA:132:C:H6	1.74	0.52
1:CA:148:G:C2	1:CA:149:A:N7	2.77	0.52
1:CA:626:U:C2	1:CA:627:G:C8	2.98	0.52
1:CA:731:G:OP1	1:CA:766:A:H1'	2.09	0.52
1:CA:811:C:H4'	1:CA:900:A:N6	2.25	0.52
1:CA:832:C:N4	1:CA:854:G:H1	2.08	0.52
1:CA:1226:C:N3	13:CM:104:ARG:HG3	2.24	0.52
1:CA:1240:U:H4'	7:CG:38:LEU:HD21	1.92	0.52
1:CA:1255:G:H5'	1:CA:1256:A:OP1	2.09	0.52
1:CA:1285:A:OP1	1:CA:1285:A:H8	1.93	0.52
2:CB:11:LEU:HB3	2:CB:213:LEU:HD11	1.90	0.52
10:CJ:32:ALA:CB	10:CJ:76:ASN:HB3	2.34	0.52
12:CL:28:LYS:HE3	12:CL:33:ARG:HH12	1.74	0.52
28:D6:41:PRO:HB2	28:D6:43:CYS:H	1.75	0.52
31:DA:86:C:H4'	31:DA:104:U:H1'	1.92	0.52
31:DA:132:G:H1	31:DA:147:U:H3	1.57	0.52
31:DA:826:U:OP1	31:DA:2428:G:H3'	2.09	0.52
31:DA:919:G:H5'	32:DB:81:G:H1'	1.91	0.52
31:DA:943:U:OP2	41:DP:38:GLN:OE1	2.27	0.52
31:DA:1106:A:H2'	31:DA:1107:G:O5'	2.10	0.52
31:DA:1486:A:H2'	31:DA:1487:G:H8	1.75	0.52
31:DA:1486:A:H61	31:DA:1504:C:H42	1.57	0.52
31:DA:1508:A:C2'	31:DA:1509:C:OP1	2.57	0.52
31:DA:1527:G:C5'	31:DA:1528:A:OP1	2.58	0.52
31:DA:2273:A:H2'	31:DA:2274:A:C8	2.44	0.52
31:DA:2280:G:C2'	31:DA:2281:C:H5'	2.40	0.52
31:DA:2712:U:O2	31:DA:2712:U:C5'	2.56	0.52
34:DE:93:VAL:C	34:DE:95:ILE:N	2.64	0.52
35:DF:102:PRO:HB2	35:DF:105:VAL:CG2	2.39	0.52
36:DG:36:LYS:HD3	36:DG:95:ARG:CZ	2.40	0.52
37:DH:103:LEU:HD23	37:DH:115:VAL:HB	1.92	0.52
37:DH:121:ILE:HG23	37:DH:133:VAL:HG13	1.92	0.52
41:DP:124:LYS:HG2	41:DP:143:GLY:CA	2.40	0.52
44:DS:58:LEU:O	44:DS:59:LYS:O	2.26	0.52
45:DT:57:PHE:O	45:DT:59:THR:N	2.42	0.52
46:DU:50:ARG:CZ	47:DV:75:PHE:CE2	2.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DV:23:GLU:O	47:DV:24:LYS:C	2.52	0.52
49:DX:76:ARG:HD2	49:DX:77:LYS:CB	2.40	0.52
49:DX:77:LYS:HG2	49:DX:78:LYS:H	1.75	0.52
50:DY:8:LYS:HB2	50:DY:28:LYS:HE2	1.91	0.52
51:DZ:51:ALA:O	51:DZ:52:SER:HB3	2.10	0.52
1:AA:59:A:C5	1:AA:354:G:C6	2.98	0.52
1:AA:187:C:H2'	1:AA:188:C:H6	1.74	0.52
1:AA:1113:C:H2'	1:AA:1114:C:H6	1.75	0.52
1:AA:1530:G:C2'	1:AA:1531:A:O5'	2.58	0.52
2:AB:17:PHE:O	2:AB:18:GLY:O	2.27	0.52
4:AD:58:LEU:HD22	4:AD:62:GLN:CG	2.37	0.52
10:AJ:40:LEU:HD23	10:AJ:40:LEU:H	1.75	0.52
10:AJ:58:ASP:O	10:AJ:59:SER:C	2.52	0.52
15:AO:55:GLY:O	15:AO:56:LEU:C	2.52	0.52
16:AP:12:LYS:O	16:AP:13:HIS:HB2	2.10	0.52
19:AS:19:VAL:HG12	19:AS:44:MET:HE2	1.92	0.52
23:B1:65:SER:O	23:B1:66:HIS:CD2	2.63	0.52
29:B7:34:ARG:NH1	29:B7:39:ARG:CG	2.73	0.52
30:B8:35:GLN:CG	31:BA:2420:C:OP1	2.58	0.52
31:BA:68:G:H2'	31:BA:69:C:O5'	2.09	0.52
31:BA:322:A:H5'	31:BA:340:A:C1'	2.40	0.52
31:BA:363(E):U:H2'	31:BA:363(F):A:O4'	2.10	0.52
31:BA:622:G:O2'	31:BA:623:G:H5'	2.10	0.52
31:BA:810:U:O2	41:BP:33:ARG:HD3	2.09	0.52
31:BA:926:A:H5"	31:BA:926:A:H8	1.75	0.52
31:BA:1259:G:H2'	31:BA:1260:G:H8	1.75	0.52
31:BA:1686:C:H2'	31:BA:1686:C:O2	2.09	0.52
31:BA:1902:C:H1'	33:BD:244:ARG:CD	2.40	0.52
31:BA:2001:A:H2'	31:BA:2002:G:C8	2.45	0.52
31:BA:2069:G:H2'	31:BA:2070:G:H5'	1.92	0.52
31:BA:2464:C:O2'	31:BA:2465:C:H5"	2.09	0.52
31:BA:2853:C:H2'	31:BA:2854:G:C8	2.43	0.52
34:BE:128:SER:OG	34:BE:129:HIS:N	2.42	0.52
34:BE:179:GLU:O	34:BE:180:ASN:HB2	2.10	0.52
35:BF:57:VAL:HG13	35:BF:58:ALA:N	2.24	0.52
35:BF:65:TRP:O	35:BF:67:GLN:N	2.43	0.52
36:BG:103:LEU:HD23	36:BG:106:LEU:HD23	1.91	0.52
36:BG:111:LEU:HA	36:BG:114:ILE:CG1	2.40	0.52
37:BH:138:LYS:O	37:BH:139:GLN:C	2.50	0.52
38:BI:15:VAL:CG2	38:BI:16:GLY:N	2.73	0.52
43:BR:84:ALA:HB3	43:BR:85:PRO:HD3	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BT:40:THR:O	45:BT:41:ARG:CB	2.58	0.52
48:BW:95:ILE:O	48:BW:95:ILE:HG13	2.10	0.52
50:BY:52:SER:C	50:BY:54:LYS:H	2.17	0.52
1:CA:173:U:C6	1:CA:197:A:C2	2.98	0.52
1:CA:527:G:O2'	1:CA:528:C:H5'	2.09	0.52
1:CA:790:A:C6	1:CA:791:G:C6	2.98	0.52
1:CA:954:G:N2	1:CA:1227:A:H62	1.95	0.52
1:CA:1239:A:H62	1:CA:1299:A:H62	1.57	0.52
3:CC:102:ASN:O	3:CC:103:VAL:HG23	2.09	0.52
5:CE:80:ILE:CD1	5:CE:138:ALA:HB1	2.40	0.52
5:CE:152:ARG:HG2	8:CH:43:GLY:O	2.10	0.52
19:CS:9:VAL:HG12	19:CS:9:VAL:O	2.10	0.52
20:CT:89:ARG:HD2	20:CT:104:LEU:HD11	1.92	0.52
23:D1:85:LEU:C	23:D1:87:PRO:CD	2.78	0.52
24:D2:25:VAL:HG22	24:D2:26:ARG:HH11	1.74	0.52
27:D5:57:VAL:O	27:D5:58:LEU:HG	2.09	0.52
30:D8:61:LEU:HD13	31:DA:593:G:C4'	2.38	0.52
31:DA:143:G:C1'	49:DX:38:GLU:HG3	2.39	0.52
31:DA:271(N):U:H4'	31:DA:271(O):C:O5'	2.09	0.52
31:DA:668:G:H3'	31:DA:669:G:H5'	1.91	0.52
31:DA:1316:U:C2'	31:DA:1317:A:H5'	2.40	0.52
31:DA:2850:A:OP2	31:DA:2866:U:H5	1.93	0.52
32:DB:21:G:O6	32:DB:63:G:C4	2.63	0.52
33:DD:31:LYS:HZ3	33:DD:31:LYS:HA	1.75	0.52
34:DE:14:ILE:HG12	34:DE:21:VAL:HG22	1.92	0.52
34:DE:134:ILE:H	34:DE:134:ILE:HD13	1.75	0.52
36:DG:77:ILE:HG22	36:DG:80:PHE:H	1.75	0.52
36:DG:85:GLY:O	36:DG:87:PRO:CD	2.48	0.52
37:DH:30:LYS:HB2	37:DH:79:VAL:HA	1.92	0.52
39:DN:2:LYS:O	39:DN:3:THR:OG1	2.26	0.52
39:DN:128:HIS:CD2	39:DN:128:HIS:O	2.63	0.52
42:DQ:81:VAL:HG12	42:DQ:82:ARG:HG2	1.90	0.52
44:DS:101:LEU:HD13	44:DS:102:ALA:O	2.10	0.52
49:DX:53:LYS:N	49:DX:80:ILE:HG22	2.24	0.52
50:DY:77:PRO:O	50:DY:99:CYS:SG	2.68	0.52
51:DZ:166:SER:OG	51:DZ:168:GLU:N	2.42	0.52
1:AA:356:A:C2'	1:AA:357:G:O5'	2.57	0.51
1:AA:433:C:O2'	1:AA:434:U:H5'	2.10	0.51
1:AA:668:G:O2'	1:AA:669:U:H5'	2.10	0.51
1:AA:1074:G:O2'	1:AA:1101:A:N1	2.35	0.51
1:AA:1490:C:O2'	1:AA:1491:G:H5'	2.09	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:211:ILE:O	2:AB:215:LEU:HD23	2.09	0.51
3:AC:130:VAL:HB	3:AC:157:ILE:HG23	1.92	0.51
5:AE:80:ILE:HG13	5:AE:91:LEU:HB2	1.92	0.51
6:AF:99:ALA:HB1	18:AR:23:LYS:HZ1	1.73	0.51
12:AL:40:VAL:HG12	12:AL:40:VAL:O	2.10	0.51
12:AL:41:ARG:HG2	12:AL:42:THR:H	1.75	0.51
13:AM:79:LYS:O	13:AM:82:MET:HB3	2.10	0.51
18:AR:25:THR:HG22	18:AR:42:ARG:HH11	1.75	0.51
20:AT:71:THR:HG22	20:AT:72:LEU:H	1.74	0.51
20:AT:89:ARG:HD2	20:AT:104:LEU:HD11	1.93	0.51
31:BA:363(A):A:N3	31:BA:363(A):A:H2'	2.24	0.51
31:BA:641:C:O2'	31:BA:2350:C:OP1	2.21	0.51
31:BA:1418:G:H8	31:BA:1418:G:O5'	1.92	0.51
31:BA:1472:A:H2'	31:BA:1473:G:C8	2.46	0.51
31:BA:1478:G:O2'	31:BA:1558:A:C2	2.64	0.51
31:BA:2470:G:C6	31:BA:2471:C:C5	2.98	0.51
31:BA:2729:G:H2'	31:BA:2730:C:C6	2.44	0.51
32:BB:38:C:C2	32:BB:39:A:C8	2.98	0.51
36:BG:19:LEU:HG	36:BG:175:LEU:CD1	2.39	0.51
37:BH:43:VAL:HB	37:BH:52:VAL:HA	1.92	0.51
39:BN:125:GLY:HA2	39:BN:126:PRO:O	2.11	0.51
42:BQ:16:ARG:HH11	42:BQ:16:ARG:HB2	1.74	0.51
50:BY:95:LYS:HE2	50:BY:101:LYS:N	2.25	0.51
1:CA:190:U:O2	20:CT:105:SER:HB2	2.09	0.51
1:CA:272:C:H2'	1:CA:273:A:H8	1.74	0.51
1:CA:658:G:C2	1:CA:749:C:N3	2.78	0.51
1:CA:679:C:O2'	1:CA:680:C:H5'	2.09	0.51
1:CA:705:U:C5	1:CA:706:A:C5	2.98	0.51
1:CA:1090:U:C2	1:CA:1091:U:C5	2.99	0.51
1:CA:1490:C:O2'	1:CA:1491:G:H5'	2.10	0.51
4:CD:206:PHE:HD2	4:CD:207:TYR:CE2	2.28	0.51
5:CE:43:LEU:HD21	5:CE:132:ALA:HB1	1.93	0.51
6:CF:19:LEU:O	6:CF:23:LYS:HG3	2.09	0.51
9:CI:118:LYS:HB3	9:CI:118:LYS:NZ	2.26	0.51
17:CQ:33:GLY:O	17:CQ:34:LYS:C	2.53	0.51
22:D0:1:MET:HA	31:DA:2451:A:H4'	1.92	0.51
23:D1:46:LEU:N	23:D1:46:LEU:CD1	2.66	0.51
24:D2:47:ASN:N	24:D2:47:ASN:HD22	2.08	0.51
24:D2:53:LEU:C	24:D2:56:GLN:HE22	2.17	0.51
25:D3:2:PRO:O	25:D3:39:ASP:HB2	2.10	0.51
26:D4:19:GLY:O	26:D4:21:VAL:N	2.43	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:384:U:H2'	31:DA:385:C:H6	1.75	0.51
31:DA:460:A:C2	31:DA:470:A:C4	2.98	0.51
31:DA:566:U:H2'	31:DA:567:A:O4'	2.10	0.51
31:DA:623:G:H2'	31:DA:624:C:C6	2.46	0.51
31:DA:825:C:H2'	31:DA:826:U:O5'	2.10	0.51
31:DA:1478:G:O2'	31:DA:1558:A:C2	2.63	0.51
31:DA:2225:A:H1'	31:DA:2226:C:OP2	2.09	0.51
31:DA:2579:C:H2'	31:DA:2580:U:O4'	2.11	0.51
33:DD:35:LYS:HE3	33:DD:63:ARG:C	2.35	0.51
35:DF:65:TRP:CZ3	35:DF:75:HIS:CD2	2.98	0.51
36:DG:118:ARG:H	36:DG:181:ARG:NH2	2.07	0.51
39:DN:68:GLU:HA	39:DN:86:PRO:HB2	1.92	0.51
41:DP:16:ARG:NH1	41:DP:16:ARG:O	2.34	0.51
41:DP:23:PRO:O	41:DP:33:ARG:NE	2.31	0.51
43:DR:81:ASP:O	43:DR:85:PRO:HG2	2.10	0.51
45:DT:36:GLU:C	45:DT:38:ASN:H	2.17	0.51
49:DX:60:ARG:NE	49:DX:74:PRO:CG	2.72	0.51
50:DY:16:ALA:HA	50:DY:21:LYS:HD2	1.90	0.51
51:DZ:108:PRO:HG3	51:DZ:141:VAL:HG22	1.91	0.51
1:AA:173:U:O4'	1:AA:197:A:C4	2.64	0.51
1:AA:191:G:H1'	20:AT:105:SER:HA	1.92	0.51
1:AA:294:U:H2'	1:AA:295:C:C6	2.45	0.51
1:AA:303:A:H2'	1:AA:304:U:O4'	2.11	0.51
1:AA:392:G:H2'	1:AA:393:A:C8	2.41	0.51
1:AA:960:U:O2	1:AA:960:U:H2'	2.09	0.51
1:AA:1255:G:H5'	1:AA:1256:A:OP1	2.09	0.51
3:AC:11:ARG:HE	3:AC:180:ALA:HB3	1.74	0.51
7:AG:69:VAL:HG13	7:AG:134:ALA:O	2.10	0.51
15:AO:17:ARG:HD3	15:AO:26:GLU:HG3	1.91	0.51
18:AR:62:GLU:HA	18:AR:65:ILE:HD11	1.91	0.51
23:B1:10:LYS:HG3	23:B1:11:ARG:H	1.74	0.51
31:BA:465:G:C6	31:BA:466:A:N6	2.78	0.51
31:BA:551:G:O2'	31:BA:1220:A:N3	2.42	0.51
31:BA:588:U:OP2	31:BA:588:U:C6	2.63	0.51
31:BA:744:G:H2'	31:BA:745:G:O5'	2.09	0.51
31:BA:828:U:H3'	31:BA:828:U:O2	2.10	0.51
31:BA:1657:C:H2'	31:BA:1658:C:C6	2.46	0.51
31:BA:2200:C:H2'	31:BA:2200:C:O2	2.10	0.51
31:BA:2247:A:O2'	31:BA:2248:C:H5'	2.09	0.51
31:BA:2314:C:N3	31:BA:2315:G:N7	2.59	0.51
31:BA:2443:C:O2'	31:BA:2444:G:H5'	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2504:U:O2	31:BA:2504:U:H2'	2.10	0.51
31:BA:2787:C:HO2'	31:BA:2810:A:HO2'	1.54	0.51
31:BA:2834:G:H8	31:BA:2834:G:H5"	1.74	0.51
32:BB:21:G:N3	32:BB:21:G:H2'	2.24	0.51
32:BB:29:A:C2	32:BB:30:C:C2	2.98	0.51
36:BG:29:TRP:C	36:BG:31:VAL:N	2.66	0.51
39:BN:27:ALA:HB3	39:BN:106:MET:HE1	1.91	0.51
39:BN:68:GLU:HA	39:BN:86:PRO:CB	2.39	0.51
47:BV:54:GLY:O	47:BV:56:SER:N	2.42	0.51
51:BZ:19:ARG:NH1	51:BZ:84:GLU:O	2.43	0.51
1:CA:713:G:N2	1:CA:714:G:C2	2.78	0.51
1:CA:1077:G:C2	1:CA:1081:G:C5	2.98	0.51
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.45	0.51
1:CA:1530:G:H2'	1:CA:1531:A:O5'	2.10	0.51
10:CJ:33:GLN:O	10:CJ:75:ILE:HG12	2.09	0.51
10:CJ:94:VAL:HG12	10:CJ:95:GLU:N	2.25	0.51
11:CK:99:GLN:O	11:CK:101:SER:N	2.40	0.51
12:CL:119:LYS:O	12:CL:120:TYR:HB2	2.10	0.51
17:CQ:40:LYS:HD2	17:CQ:42:TYR:CE1	2.45	0.51
20:CT:67:ALA:HB2	20:CT:77:ALA:HB2	1.92	0.51
23:D1:85:LEU:CA	23:D1:87:PRO:HD3	2.40	0.51
28:D6:32:ASN:OD1	28:D6:33:LYS:N	2.44	0.51
30:D8:27:THR:HA	41:DP:62:LEU:HD11	1.92	0.51
31:DA:175:G:H5'	31:DA:175:G:C8	2.45	0.51
31:DA:300:A:H2'	31:DA:334:C:H1'	1.91	0.51
31:DA:475:U:C4	31:DA:481:G:O6	2.63	0.51
31:DA:744:G:H2'	31:DA:745:G:O5'	2.09	0.51
31:DA:954:G:C5	31:DA:955:C:C5	2.98	0.51
31:DA:1021:A:H3'	31:DA:1021:A:H8	1.74	0.51
31:DA:1213:A:O2'	31:DA:1214:A:H5'	2.10	0.51
32:DB:28:C:C2	32:DB:29:A:C8	2.98	0.51
33:DD:25:THR:CG2	33:DD:25:THR:O	2.56	0.51
33:DD:75:ILE:HG21	33:DD:99:ASP:HB2	1.91	0.51
34:DE:7:VAL:HG21	45:DT:1:MET:CE	2.37	0.51
38:DI:78:THR:O	38:DI:79:ILE:HD13	2.10	0.51
41:DP:16:ARG:HD3	41:DP:16:ARG:C	2.34	0.51
44:DS:85:VAL:HG23	44:DS:106:ARG:HB2	1.91	0.51
50:DY:14:LEU:HG	50:DY:15:VAL:N	2.25	0.51
51:DZ:74:VAL:HG22	51:DZ:86:VAL:HG13	1.91	0.51
1:AA:246:A:C2	1:AA:282:A:C5	2.99	0.51
1:AA:414:A:C5	1:AA:431:A:C2	2.98	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:701:C:O2	1:AA:703:G:N1	2.43	0.51
1:AA:1058:G:C5	1:AA:1059:C:C4	2.99	0.51
1:AA:1089:G:C6	1:AA:1090:U:C4	2.98	0.51
1:AA:1248:A:C2'	1:AA:1249:C:H5'	2.40	0.51
1:AA:1483:A:H2	31:BA:1959:G:N3	2.08	0.51
2:AB:102:LEU:N	2:AB:102:LEU:CD1	2.74	0.51
4:AD:2:GLY:O	4:AD:4:TYR:N	2.43	0.51
24:B2:41:ILE:O	24:B2:43:GLN:N	2.42	0.51
26:B4:20:ASN:O	26:B4:24:THR:HA	2.10	0.51
27:B5:2:ALA:N	31:BA:747:U:C4	2.78	0.51
31:BA:189:G:H2'	31:BA:205:G:N2	2.26	0.51
31:BA:300:A:H2'	31:BA:334:C:H1'	1.91	0.51
31:BA:301:G:H1'	31:BA:302:C:C6	2.45	0.51
31:BA:477:A:H2'	31:BA:478:A:C8	2.44	0.51
31:BA:796:C:H2'	31:BA:797:C:H6	1.75	0.51
31:BA:1178:C:H2'	31:BA:1179:C:H6	1.74	0.51
31:BA:1751:C:O2'	31:BA:1752:C:H5'	2.10	0.51
31:BA:2313:C:H2'	31:BA:2314:C:H6	1.75	0.51
34:BE:61:ARG:N	34:BE:62:PRO:CD	2.74	0.51
42:BQ:9:TYR:C	42:BQ:10:ARG:HG3	2.35	0.51
42:BQ:78:PRO:O	42:BQ:79:LEU:HB2	2.10	0.51
44:BS:36:TYR:HD1	44:BS:36:TYR:H	1.55	0.51
44:BS:58:LEU:O	44:BS:59:LYS:O	2.28	0.51
49:BX:37:THR:CG2	49:BX:37:THR:O	2.58	0.51
1:CA:33:A:H2'	1:CA:34:C:H6	1.75	0.51
1:CA:81:U:C4	1:CA:83:U:C5	2.99	0.51
1:CA:498:U:O2	1:CA:498:U:H2'	2.09	0.51
1:CA:552:U:H5'	12:CL:86:ARG:HD2	1.92	0.51
1:CA:564:C:C2'	1:CA:565:U:H5'	2.39	0.51
1:CA:721:G:H4'	1:CA:722:A:O4'	2.10	0.51
1:CA:814:A:N7	1:CA:816:A:C5	2.78	0.51
1:CA:836:G:C6	1:CA:851:G:C6	2.99	0.51
1:CA:882:C:O2'	1:CA:883:C:H5'	2.10	0.51
1:CA:985:C:H2'	1:CA:986:A:C8	2.46	0.51
1:CA:1215:G:C6	1:CA:1216:G:C5	2.99	0.51
1:CA:1492:A:H5'	1:CA:1493:A:OP2	2.09	0.51
2:CB:208:ILE:HA	2:CB:211:ILE:HD12	1.92	0.51
4:CD:4:TYR:O	4:CD:5:ILE:HB	2.09	0.51
4:CD:149:ALA:O	4:CD:150:GLU:C	2.53	0.51
20:CT:56:MET:O	20:CT:59:ALA:HB3	2.09	0.51
23:D1:64:ALA:HA	23:D1:67:ILE:CG1	2.40	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:344:G:O2'	31:DA:345:A:H5'	2.10	0.51
31:DA:455:C:N3	31:DA:473:G:H5'	2.24	0.51
31:DA:547:A:C8	31:DA:549:G:C6	2.98	0.51
31:DA:773:U:C5'	33:DD:47:GLY:HA2	2.40	0.51
31:DA:779:U:OP1	33:DD:49:ILE:HG22	2.10	0.51
31:DA:926:A:H5"	31:DA:926:A:H8	1.75	0.51
31:DA:1109:C:C5	31:DA:1110:G:C5	2.94	0.51
31:DA:1178:C:H2'	31:DA:1179:C:H6	1.74	0.51
31:DA:1227:G:H5"	46:DU:16:LYS:NZ	2.25	0.51
31:DA:1797:C:O2'	33:DD:259:THR:HB	2.10	0.51
31:DA:2584:U:H6	31:DA:2585:U:C5	2.28	0.51
31:DA:2807:G:N2	31:DA:2808:U:H1'	2.25	0.51
34:DE:101:ARG:HD2	34:DE:169:ASN:HD22	1.74	0.51
34:DE:151:TYR:CD2	34:DE:154:LYS:NZ	2.75	0.51
39:DN:65:LYS:NZ	39:DN:66:LYS:H	2.09	0.51
39:DN:78:TYR:H	39:DN:79:PRO:CD	2.23	0.51
46:DU:92:ARG:HH22	47:DV:10:LYS:HB3	1.74	0.51
47:DV:35:LEU:HD23	47:DV:35:LEU:N	2.24	0.51
49:DX:24:GLY:CA	49:DX:80:ILE:HG13	2.29	0.51
1:AA:37:U:O2'	1:AA:38:G:H5'	2.09	0.51
1:AA:134:A:N6	16:AP:25:ARG:HH12	2.02	0.51
1:AA:222:U:H2'	1:AA:223:U:C6	2.45	0.51
1:AA:559:A:H4'	1:AA:560:U:C5'	2.41	0.51
1:AA:745:C:H2'	1:AA:746:A:H8	1.74	0.51
1:AA:853:G:H2'	1:AA:854:G:H8	1.76	0.51
1:AA:950:U:H3'	13:AM:102:ARG:HH12	1.76	0.51
1:AA:1456:G:OP1	1:AA:1456:G:O4'	2.28	0.51
2:AB:185:ILE:HA	2:AB:199:TYR:O	2.10	0.51
4:AD:204:ILE:HG21	5:AE:98:THR:O	2.11	0.51
6:AF:37:VAL:HA	6:AF:65:VAL:HG12	1.92	0.51
8:AH:6:ILE:C	8:AH:8:ASP:N	2.68	0.51
12:AL:28:LYS:O	12:AL:29:GLY:C	2.53	0.51
16:AP:43:LYS:CG	16:AP:48:TRP:CD2	2.93	0.51
18:AR:53:ARG:O	18:AR:55:ARG:N	2.43	0.51
20:AT:95:ALA:O	20:AT:97:ALA:N	2.44	0.51
23:B1:85:LEU:C	23:B1:87:PRO:CD	2.78	0.51
30:B8:25:MET:SD	41:BP:64:LYS:HD2	2.50	0.51
30:B8:27:THR:HA	41:BP:62:LEU:HD11	1.92	0.51
31:BA:195:A:H4'	31:BA:251:A:O2'	2.09	0.51
31:BA:879:G:H1	31:BA:898:C:N4	2.08	0.51
31:BA:1021:A:C8	31:BA:1021:A:C3'	2.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1722:A:O2'	31:BA:1739:U:C5'	2.58	0.51
31:BA:1741:A:C5	31:BA:1742:G:C2	2.98	0.51
31:BA:2409:G:H2'	31:BA:2410:G:O4'	2.10	0.51
31:BA:2494:G:C4	31:BA:2495:G:C8	2.97	0.51
32:BB:41:U:C2'	32:BB:42:C:OP1	2.57	0.51
36:BG:77:ILE:HG22	36:BG:80:PHE:H	1.75	0.51
37:BH:103:LEU:HD11	37:BH:105:LEU:CD1	2.40	0.51
39:BN:23:LEU:HD13	39:BN:98:VAL:HG12	1.91	0.51
39:BN:42:TRP:CB	46:BU:64:ARG:NH1	2.59	0.51
40:BO:12:ASP:C	40:BO:99:PHE:HE2	2.19	0.51
41:BP:120:ALA:O	25:D3:1:MET:CG	2.54	0.51
45:BT:106:SER:O	45:BT:107:ASP:CG	2.54	0.51
1:CA:80:G:N1	1:CA:89:C:N4	2.58	0.51
1:CA:84:U:H3'	1:CA:84:U:H6	1.75	0.51
1:CA:379:C:O2'	1:CA:380:G:H5'	2.10	0.51
1:CA:391:G:C6	1:CA:392:G:C5	2.98	0.51
1:CA:694:A:H2'	1:CA:695:A:O5'	2.10	0.51
1:CA:950:U:H3'	13:CM:102:ARG:HH12	1.75	0.51
1:CA:1004:A:H2'	1:CA:1038:C:O2	2.10	0.51
1:CA:1233:G:P	9:CI:124:GLN:HB2	2.51	0.51
19:CS:6:LYS:HD2	19:CS:6:LYS:H	1.74	0.51
30:D8:22:VAL:HB	30:D8:53:PRO:HB3	1.90	0.51
31:DA:150:C:H2'	31:DA:151:C:C6	2.46	0.51
31:DA:528:A:C2	31:DA:2043:C:H5'	2.46	0.51
31:DA:848:G:C4	31:DA:933:A:H8	2.29	0.51
31:DA:1533:G:C2'	31:DA:1543:C:OP1	2.58	0.51
31:DA:1799:G:H5'	31:DA:1819:A:H61	1.75	0.51
32:DB:89:G:H8	32:DB:89:G:OP2	1.91	0.51
33:DD:253:GLN:HB3	33:DD:255:LYS:CE	2.40	0.51
34:DE:66:HIS:O	34:DE:66:HIS:CD2	2.64	0.51
35:DF:158:THR:HG23	35:DF:160:ASN:N	2.25	0.51
37:DH:138:LYS:O	37:DH:139:GLN:C	2.53	0.51
38:DI:54:GLN:HG2	38:DI:57:ARG:NH2	2.26	0.51
39:DN:39:ARG:CG	39:DN:41:ASP:H	2.19	0.51
40:DO:107:ARG:HD3	40:DO:112:MET:SD	2.50	0.51
41:DP:138:LEU:C	41:DP:140:ALA:N	2.67	0.51
42:DQ:104:PHE:HE1	42:DQ:125:LEU:HD11	1.75	0.51
45:DT:31:SER:CA	45:DT:32:TYR:CD2	2.94	0.51
47:DV:24:LYS:HE3	47:DV:68:LYS:HE3	1.92	0.51
49:DX:72:LYS:HG3	49:DX:73:ARG:H	1.75	0.51
1:AA:9:G:H2'	1:AA:9:G:N3	2.26	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:391:G:C6	1:AA:392:G:C5	2.98	0.51
1:AA:558:G:C5	1:AA:559:A:C2	2.98	0.51
1:AA:683:G:C6	1:AA:684:A:C5	2.98	0.51
1:AA:874:G:H2'	1:AA:875:C:C6	2.45	0.51
1:AA:1004:A:H2'	1:AA:1038:C:O2	2.10	0.51
1:AA:1305:G:OP2	1:AA:1305:G:C8	2.63	0.51
2:AB:11:LEU:HB3	2:AB:213:LEU:HD11	1.91	0.51
5:AE:90:VAL:O	5:AE:91:LEU:HD13	2.10	0.51
6:AF:41:GLU:HB3	6:AF:43:LEU:CD1	2.40	0.51
8:AH:6:ILE:HD12	8:AH:6:ILE:H	1.76	0.51
9:AI:118:LYS:NZ	9:AI:118:LYS:HB3	2.25	0.51
10:AJ:6:ILE:HD11	10:AJ:72:VAL:HB	1.91	0.51
10:AJ:13:HIS:O	10:AJ:17:ASP:HB2	2.10	0.51
12:AL:66:VAL:HG11	12:AL:98:TYR:CE1	2.46	0.51
15:AO:18:PHE:O	15:AO:19:PRO:C	2.53	0.51
20:AT:73:HIS:O	20:AT:74:LYS:O	2.29	0.51
23:B1:26:ARG:HB2	23:B1:34:THR:HB	1.91	0.51
28:B6:12:GLU:HA	28:B6:23:THR:HA	1.92	0.51
28:B6:32:ASN:OD1	28:B6:33:LYS:N	2.44	0.51
31:BA:310:A:OP1	50:BY:18:GLY:HA2	2.10	0.51
31:BA:707:G:C5	31:BA:708:C:C5	2.98	0.51
31:BA:1510:G:H2'	31:BA:1511:C:H6	1.73	0.51
31:BA:1694:C:O2'	31:BA:1695:G:C5	2.64	0.51
31:BA:1899:G:C2'	31:BA:1900:A:OP2	2.59	0.51
31:BA:2069:G:C2'	31:BA:2070:G:H5'	2.41	0.51
31:BA:2272:U:H5"	31:BA:2273:A:P	2.51	0.51
31:BA:2281:C:O2'	31:BA:2282:G:H5'	2.11	0.51
31:BA:2810:A:C2'	34:BE:61:ARG:NH2	2.73	0.51
32:BB:33:G:C2	32:BB:50:G:C2	2.98	0.51
33:BD:130:ALA:C	33:BD:131:LEU:HD12	2.34	0.51
34:BE:34:VAL:CG2	34:BE:48:GLN:HE21	2.16	0.51
35:BF:7:TYR:HB3	35:BF:16:GLY:N	2.26	0.51
35:BF:132:VAL:C	35:BF:134:GLY:N	2.68	0.51
38:BI:15:VAL:C	38:BI:17:GLN:H	2.18	0.51
39:BN:13:TRP:O	39:BN:135:PRO:HG2	2.11	0.51
39:BN:27:ALA:HB3	39:BN:106:MET:HE2	1.93	0.51
46:BU:74:LEU:HD12	46:BU:74:LEU:N	2.26	0.51
47:BV:16:PRO:C	47:BV:98:GLU:OE2	2.53	0.51
47:BV:66:ARG:HD2	47:BV:67:GLY:C	2.35	0.51
49:BX:53:LYS:N	49:BX:80:ILE:HG22	2.25	0.51
50:BY:28:LYS:HE3	50:BY:30:VAL:CG2	2.40	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BZ:56:VAL:HA	51:BZ:70:LEU:HD23	1.92	0.51
1:CA:512:U:H2'	1:CA:513:C:H6	1.75	0.51
1:CA:685:G:C2	1:CA:686:U:C4	2.99	0.51
1:CA:722:A:O3'	1:CA:723:U:C5	2.63	0.51
1:CA:783:C:C2'	1:CA:784:C:H5'	2.41	0.51
1:CA:811:C:O2'	1:CA:901:A:N1	2.42	0.51
1:CA:1226:C:N4	13:CM:104:ARG:HD2	2.25	0.51
1:CA:1252:A:H2'	1:CA:1253:G:O4'	2.11	0.51
1:CA:1338:G:H2'	1:CA:1339:A:O4'	2.10	0.51
2:CB:59:GLU:C	2:CB:61:LEU:H	2.18	0.51
3:CC:155:GLY:O	3:CC:156:ARG:HB2	2.11	0.51
4:CD:88:VAL:O	4:CD:92:VAL:HG23	2.10	0.51
5:CE:112:LEU:HD23	5:CE:112:LEU:N	2.25	0.51
6:CF:5:GLU:HB3	6:CF:62:TRP:NE1	2.26	0.51
23:D1:87:PRO:HB2	23:D1:91:LYS:CE	2.40	0.51
24:D2:45:SER:HA	24:D2:47:ASN:HD21	1.75	0.51
30:D8:19:SER:OG	30:D8:21:LYS:HD2	2.11	0.51
31:DA:250:G:H2'	31:DA:251:A:C8	2.46	0.51
31:DA:1179:C:C3'	31:DA:1180:C:H5"	2.40	0.51
31:DA:1614:A:H61	48:DW:88:ARG:H	1.59	0.51
34:DE:95:ILE:CD1	34:DE:95:ILE:H	2.23	0.51
37:DH:89:ILE:O	37:DH:90:LYS:CG	2.59	0.51
39:DN:3:THR:O	39:DN:4:TYR:CD2	2.64	0.51
42:DQ:63:LYS:HG2	42:DQ:65:PHE:CE2	2.45	0.51
43:DR:10:LEU:HD22	43:DR:17:ARG:CD	2.40	0.51
43:DR:75:LEU:C	43:DR:75:LEU:HD13	2.35	0.51
45:DT:35:LYS:O	45:DT:38:ASN:O	2.28	0.51
49:DX:35:THR:CB	49:DX:75:ASP:OD2	2.59	0.51
50:DY:52:SER:C	50:DY:54:LYS:H	2.19	0.51
51:DZ:44:PHE:CZ	51:DZ:48:PHE:CD2	2.98	0.51
1:AA:52:G:O2'	1:AA:53:A:H5'	2.11	0.51
1:AA:55:A:C4	1:AA:56:U:C6	2.99	0.51
1:AA:394:G:C4	1:AA:395:C:C5	2.98	0.51
1:AA:585:G:O2'	12:AL:8:ASN:ND2	2.44	0.51
1:AA:625:G:O2'	1:AA:626:U:H5'	2.11	0.51
1:AA:722:A:O3'	1:AA:723:U:C5	2.64	0.51
1:AA:726:C:O2'	1:AA:727:G:H5'	2.10	0.51
1:AA:811:C:O2'	1:AA:901:A:N1	2.43	0.51
1:AA:1379:G:C6	1:AA:1380:U:O4	2.62	0.51
2:AB:111:ARG:O	2:AB:145:LEU:HD11	2.10	0.51
11:AK:99:GLN:O	11:AK:101:SER:N	2.37	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:175:G:C5'	31:BA:175:G:C8	2.91	0.51
31:BA:272(B):G:O2'	31:BA:272(C):G:C5'	2.58	0.51
31:BA:535:C:C2'	31:BA:536:A:H5'	2.41	0.51
31:BA:588:U:H2'	31:BA:589:C:H6	1.76	0.51
31:BA:1022:G:C6	31:BA:1140:C:C4	2.98	0.51
31:BA:1280:G:H2'	31:BA:1281:G:C5'	2.40	0.51
31:BA:1339:G:N2	31:BA:1603:A:H1'	2.25	0.51
31:BA:1633:G:O5'	31:BA:1633:G:H8	1.93	0.51
31:BA:1688:U:H5'	31:BA:1689:A:OP1	2.11	0.51
31:BA:2272:U:C5'	31:BA:2273:A:OP1	2.58	0.51
32:BB:10:C:C4	32:BB:11:C:C5	2.99	0.51
33:BD:186:HIS:CD2	33:BD:187:GLY:N	2.79	0.51
36:BG:106:LEU:HD12	36:BG:110:ALA:HB3	1.92	0.51
39:BN:62:VAL:O	39:BN:63:THR:O	2.28	0.51
41:BP:8:PRO:O	41:BP:9:ASN:C	2.54	0.51
41:BP:105:LEU:O	41:BP:106:LEU:CB	2.46	0.51
42:BQ:18:LYS:O	42:BQ:19:GLY:C	2.54	0.51
44:BS:19:LYS:O	44:BS:19:LYS:CG	2.59	0.51
44:BS:26:LEU:HD22	44:BS:87:PHE:CE1	2.46	0.51
47:BV:1:MET:CE	47:BV:44:LYS:H	2.24	0.51
49:BX:65:ARG:NH2	49:BX:66:LEU:H	2.07	0.51
50:BY:14:LEU:HG	50:BY:15:VAL:N	2.26	0.51
51:BZ:69:THR:HG22	51:BZ:90:VAL:CA	2.37	0.51
1:CA:81:U:H2'	1:CA:82:U:C5	2.46	0.51
1:CA:375:U:O3'	16:CP:6:LEU:HB2	2.11	0.51
1:CA:577:G:N3	1:CA:578:C:C6	2.79	0.51
1:CA:627:G:H2'	1:CA:628:G:C8	2.45	0.51
1:CA:682:G:C6	1:CA:683:G:N7	2.79	0.51
1:CA:716:A:N3	11:CK:118:GLY:HA2	2.26	0.51
1:CA:1201:A:C1'	1:CA:1202:G:OP2	2.58	0.51
6:CF:89:MET:HG2	6:CF:89:MET:O	2.11	0.51
7:CG:40:ALA:O	7:CG:44:TYR:CD1	2.64	0.51
9:CI:105:ASP:OD2	9:CI:107:ARG:HD3	2.09	0.51
11:CK:73:MET:HG2	11:CK:103:LEU:HD11	1.92	0.51
14:CN:54:PRO:O	14:CN:56:VAL:HG23	2.11	0.51
21:CU:22:ARG:N	21:CU:23:PRO:HD3	2.26	0.51
23:D1:65:SER:N	23:D1:67:ILE:CD1	2.65	0.51
27:D5:10:LYS:HE3	31:DA:1262:A:N3	2.26	0.51
30:D8:50:LEU:C	30:D8:53:PRO:HD2	2.36	0.51
31:DA:68:G:H2'	31:DA:69:C:O5'	2.10	0.51
31:DA:86:C:O2'	31:DA:87:C:H5'	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:287:C:C4	31:DA:288:C:C5	2.99	0.51
31:DA:288:C:H2'	31:DA:288:C:O2	2.11	0.51
31:DA:527:C:N4	31:DA:2779:U:OP2	2.43	0.51
31:DA:776:G:H4'	31:DA:777:A:O5'	2.11	0.51
31:DA:854:G:H2'	31:DA:855:G:C8	2.45	0.51
31:DA:947:G:H2'	31:DA:948:G:H8	1.76	0.51
31:DA:2776:A:H4'	31:DA:2778:A:OP1	2.11	0.51
33:DD:65:ILE:HD11	33:DD:67:PHE:CD1	2.43	0.51
33:DD:143:HIS:CD2	33:DD:144:ALA:CB	2.94	0.51
34:DE:14:ILE:CG1	34:DE:21:VAL:HG22	2.40	0.51
36:DG:61:ALA:HA	36:DG:64:THR:HG22	1.92	0.51
37:DH:30:LYS:HZ2	37:DH:81:GLU:HA	1.73	0.51
39:DN:19:GLU:O	39:DN:59:LYS:HB3	2.09	0.51
39:DN:35:ARG:HB2	39:DN:42:TRP:CH2	2.46	0.51
39:DN:126:PRO:O	39:DN:127:ASP:HB2	2.11	0.51
39:DN:132:ALA:O	39:DN:133:GLN:HB2	2.10	0.51
41:DP:48:PRO:HG2	41:DP:49:ARG:H	1.76	0.51
41:DP:108:LYS:O	41:DP:110:TYR:N	2.43	0.51
47:DV:91:TYR:CD2	47:DV:91:TYR:C	2.89	0.51
48:DW:12:ILE:CG2	48:DW:17:VAL:CG2	2.89	0.51
49:DX:8:ILE:HD12	49:DX:8:ILE:N	2.25	0.51
50:DY:2:ARG:C	50:DY:4:LYS:N	2.68	0.51
1:AA:51:A:C6	1:AA:353:A:C2	2.99	0.51
1:AA:1173:G:H2'	1:AA:1174:G:C8	2.46	0.51
13:AM:16:ASP:HB3	13:AM:41:PRO:HB3	1.92	0.51
18:AR:58:LEU:HB3	18:AR:62:GLU:CB	2.41	0.51
18:AR:66:LEU:O	18:AR:70:ILE:HG12	2.11	0.51
19:AS:63:THR:CG2	19:AS:66:MET:HE3	2.41	0.51
22:B0:14:ARG:HD2	31:BA:2279:G:O6	2.09	0.51
31:BA:708:C:H42	31:BA:723:G:H1	1.59	0.51
31:BA:1019:U:N3	31:BA:1142(A):A:N6	2.50	0.51
31:BA:1027:A:C6	31:BA:1126:A:C4	2.98	0.51
31:BA:1109:C:H5	31:BA:1110:G:C4	2.28	0.51
31:BA:1374:G:C6	31:BA:1375:C:C4	2.99	0.51
31:BA:1899:G:O2'	31:BA:1900:A:H5"	2.10	0.51
31:BA:2463:C:O2'	31:BA:2464:C:H5'	2.09	0.51
33:BD:35:LYS:CE	33:BD:104:TYR:CD1	2.93	0.51
33:BD:158:ALA:CA	33:BD:161:THR:HG21	2.39	0.51
34:BE:60:ASN:OD1	34:BE:62:PRO:HD2	2.10	0.51
35:BF:46:ARG:CG	35:BF:46:ARG:NH1	2.64	0.51
36:BG:33:ARG:HB2	36:BG:162:THR:OG1	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:132:ASN:OD1	36:BG:158:ALA:HA	2.11	0.51
41:BP:16:ARG:CG	41:BP:17:LYS:N	2.73	0.51
41:BP:140:ALA:O	41:BP:141:ALA:CB	2.58	0.51
42:BQ:60:ARG:HG2	42:BQ:60:ARG:O	2.09	0.51
47:BV:71:LEU:HD22	47:BV:71:LEU:C	2.36	0.51
1:CA:191:G:N3	20:CT:103:GLY:O	2.44	0.51
1:CA:874:G:H2'	1:CA:875:C:C6	2.44	0.51
1:CA:933:G:O6	7:CG:3:ARG:NH2	2.44	0.51
1:CA:983:A:H3'	1:CA:983:A:N3	2.26	0.51
1:CA:1067:A:C4'	1:CA:1068:G:O5'	2.59	0.51
1:CA:1160:G:H5'	2:CB:132:LYS:HE3	1.92	0.51
2:CB:67:THR:HA	2:CB:90:MET:HE1	1.91	0.51
8:CH:123:GLU:O	8:CH:127:LEU:HB2	2.11	0.51
14:CN:3:ARG:O	14:CN:7:ILE:HG23	2.09	0.51
23:D1:85:LEU:HD13	23:D1:87:PRO:HG3	1.91	0.51
27:D5:2:ALA:N	31:DA:747:U:C4	2.78	0.51
31:DA:372:G:O2'	31:DA:373:U:P	2.68	0.51
31:DA:484:C:C2	31:DA:485:C:C5	2.99	0.51
31:DA:828:U:H4'	31:DA:831:G:N1	2.26	0.51
31:DA:879:G:H1	31:DA:898:C:N4	2.09	0.51
31:DA:923:C:H2'	31:DA:924:C:H6	1.75	0.51
31:DA:1040:C:O2'	31:DA:1041:C:OP2	2.27	0.51
31:DA:1112:G:C1'	31:DA:1113:U:OP1	2.59	0.51
31:DA:1375:C:H2'	31:DA:1376:C:H6	1.74	0.51
31:DA:1528:A:O2'	31:DA:1528(A):A:C8	2.64	0.51
31:DA:1529:G:N2	31:DA:1530:C:H2'	2.26	0.51
31:DA:1744:C:C2'	31:DA:1745:C:H5'	2.41	0.51
31:DA:1899:G:N2	31:DA:1902:C:C4	2.78	0.51
31:DA:2314:C:N3	31:DA:2315:G:N7	2.59	0.51
31:DA:2646:C:H2'	31:DA:2647:U:O4'	2.11	0.51
32:DB:61:G:C6	32:DB:62:C:C4	2.99	0.51
36:DG:54:GLU:O	36:DG:57:ALA:HB3	2.11	0.51
38:DI:66:GLU:OE1	38:DI:134:PRO:HB3	2.09	0.51
39:DN:68:GLU:HG3	39:DN:88:GLU:OE1	2.11	0.51
41:DP:143:GLY:CA	41:DP:145:PRO:HD3	2.41	0.51
44:DS:17:ARG:O	44:DS:19:LYS:N	2.42	0.51
47:DV:16:PRO:O	47:DV:98:GLU:OE2	2.29	0.51
47:DV:47:VAL:HG22	47:DV:48:GLY:N	2.25	0.51
47:DV:82:ARG:O	47:DV:82:ARG:HD3	2.10	0.51
48:DW:74:ALA:O	48:DW:75:TYR:HB3	2.10	0.51
50:DY:37:VAL:HG11	50:DY:72:VAL:HG21	1.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:375:U:H2'	1:AA:376:G:H8	1.75	0.51
1:AA:664:G:H22	1:AA:741:G:H1	1.59	0.51
1:AA:668:G:O2'	15:AO:46:HIS:HD2	1.93	0.51
1:AA:830:G:C5	1:AA:831:U:C5	2.98	0.51
1:AA:1052:U:H2'	1:AA:1055:A:OP1	2.11	0.51
1:AA:1072:G:C5	1:AA:1073:U:C4	2.98	0.51
2:AB:76:GLN:O	2:AB:208:ILE:HG12	2.11	0.51
4:AD:206:PHE:HD2	4:AD:207:TYR:CE2	2.28	0.51
5:AE:80:ILE:CG1	5:AE:91:LEU:HB2	2.40	0.51
7:AG:50:ILE:HD12	7:AG:61:VAL:HG11	1.93	0.51
16:AP:21:VAL:HG22	16:AP:34:GLU:O	2.11	0.51
27:B5:51:TYR:N	27:B5:54:GLY:HA3	2.26	0.51
28:B6:37:ARG:O	28:B6:48:VAL:O	2.28	0.51
30:B8:12:LYS:NZ	31:BA:249:C:O2	2.36	0.51
30:B8:31:HIS:CD2	31:BA:2419:U:O4	2.63	0.51
31:BA:288:C:O2	31:BA:288:C:H2'	2.10	0.51
31:BA:292:C:O2'	31:BA:293:U:H5'	2.11	0.51
31:BA:671:C:H2'	31:BA:672:C:C6	2.46	0.51
31:BA:892:G:C5	31:BA:893:C:C5	2.98	0.51
31:BA:1162:G:H1'	47:BV:91:TYR:OH	2.11	0.51
31:BA:1652:A:C8	31:BA:1652:A:C5'	2.92	0.51
31:BA:1891:G:C6	31:BA:1892:C:N3	2.79	0.51
32:BB:2:C:H2'	32:BB:3:C:H6	1.76	0.51
33:BD:35:LYS:HG2	33:BD:64:ILE:CG2	2.41	0.51
34:BE:46:ALA:HA	34:BE:82:ARG:O	2.10	0.51
38:BI:60:GLU:HA	38:BI:63:ALA:HB3	1.92	0.51
39:BN:19:GLU:O	39:BN:59:LYS:HB3	2.11	0.51
43:BR:49:ASP:O	43:BR:52:ILE:HB	2.11	0.51
51:BZ:166:SER:OG	51:BZ:167:PRO:CA	2.56	0.51
1:CA:64:G:H4'	1:CA:65:U:H5"	1.93	0.51
1:CA:338:A:O2'	1:CA:339:C:H5'	2.11	0.51
1:CA:726:C:O2'	1:CA:727:G:H5'	2.10	0.51
1:CA:1113:C:H2'	1:CA:1114:C:H6	1.74	0.51
1:CA:1168:A:C6	1:CA:1169:A:C6	2.99	0.51
1:CA:1225:A:H1'	19:CS:78:ARG:HD3	1.92	0.51
3:CC:14:ILE:HG12	3:CC:15:THR:H	1.76	0.51
4:CD:108:LEU:HD11	4:CD:174:LEU:HD13	1.93	0.51
5:CE:69:VAL:HG12	5:CE:71:LEU:HD23	1.93	0.51
7:CG:70:LYS:HB3	7:CG:96:GLN:HB3	1.93	0.51
10:CJ:61:GLU:OE1	14:CN:58:LYS:HE2	2.11	0.51
25:D3:50:VAL:O	25:D3:54:VAL:HG22	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:627:A:C5	31:DA:637:A:N7	2.78	0.51
31:DA:992:C:O2'	31:DA:993:G:H5'	2.11	0.51
31:DA:994:C:O2	47:DV:10:LYS:HE2	2.11	0.51
31:DA:1024:G:C3'	31:DA:1025:G:H5"	2.36	0.51
31:DA:1131:G:H21	39:DN:73:THR:CG2	2.23	0.51
31:DA:1256:G:H5'	31:DA:1257:C:OP2	2.11	0.51
31:DA:1468:C:O2'	31:DA:1469:A:H5'	2.10	0.51
31:DA:1496:A:C8	31:DA:1498:C:N3	2.78	0.51
31:DA:1722:A:N1	31:DA:1740:G:H2'	2.25	0.51
31:DA:2468:G:O2'	31:DA:2476:A:H8	1.93	0.51
31:DA:2580:U:C5'	34:DE:131:ALA:CB	2.89	0.51
32:DB:41:U:C2'	32:DB:42:C:OP1	2.58	0.51
32:DB:81:G:O6	32:DB:96:U:O2	2.29	0.51
33:DD:134:ARG:HH11	33:DD:134:ARG:HG2	1.76	0.51
37:DH:54:ARG:HH11	37:DH:65:HIS:CD2	2.28	0.51
42:DQ:14:ARG:HG2	42:DQ:41:TRP:HH2	1.76	0.51
43:DR:13:HIS:CE1	43:DR:15:SER:OG	2.64	0.51
43:DR:21:TYR:CZ	43:DR:43:GLU:HG2	2.46	0.51
44:DS:66:ALA:HA	44:DS:69:VAL:CG1	2.40	0.51
44:DS:88:ASP:CG	44:DS:89:ARG:N	2.68	0.51
48:DW:37:ARG:HG2	48:DW:38:TYR:CE2	2.45	0.51
49:DX:41:ASN:HA	49:DX:44:GLU:CB	2.39	0.51
1:AA:81:U:H2'	1:AA:82:U:C5	2.46	0.51
1:AA:394:G:H2'	1:AA:395:C:C6	2.39	0.51
1:AA:626:U:C2	1:AA:627:G:C8	2.99	0.51
1:AA:1315:U:H2'	1:AA:1316:G:O4'	2.11	0.51
1:AA:1378:C:N4	1:AA:1379:G:C2	2.78	0.51
4:AD:8:VAL:O	4:AD:10:ARG:N	2.43	0.51
4:AD:30:LYS:HA	4:AD:35:ARG:HD2	1.93	0.51
6:AF:5:GLU:HB3	6:AF:62:TRP:HE1	1.76	0.51
6:AF:40:VAL:HA	6:AF:62:TRP:O	2.10	0.51
7:AG:89:MET:HE1	7:AG:156:TRP:CD1	2.46	0.51
13:AM:83:ASP:CG	13:AM:84:ILE:H	2.18	0.51
21:AU:22:ARG:N	21:AU:23:PRO:HD3	2.26	0.51
30:B8:39:LYS:NZ	30:B8:40:GLU:HA	2.25	0.51
31:BA:9:U:C4	31:BA:2629:A:C6	2.99	0.51
31:BA:109:G:H2'	31:BA:110:G:O4'	2.11	0.51
31:BA:923:C:H2'	31:BA:924:C:H6	1.76	0.51
31:BA:1204:A:N1	31:BA:1241:A:H2	2.09	0.51
31:BA:1332:G:N2	31:BA:1610:A:H8	2.09	0.51
31:BA:1397:U:HO2'	31:BA:1398:C:P	2.34	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1592:C:H2'	31:BA:1593:G:H8	1.76	0.51
31:BA:1722:A:N6	31:BA:1741:A:N1	2.58	0.51
31:BA:2280:G:H2'	31:BA:2281:C:H5'	1.93	0.51
33:BD:35:LYS:HZ2	33:BD:64:ILE:C	2.14	0.51
33:BD:79:VAL:HG21	33:BD:111:LEU:HD11	1.93	0.51
37:BH:86:GLU:HB3	37:BH:132:ARG:CB	2.40	0.51
37:BH:90:LYS:HB2	37:BH:159:GLU:O	2.11	0.51
39:BN:2:LYS:NZ	46:BU:94:ASN:ND2	2.59	0.51
41:BP:51:PHE:HB3	41:BP:52:GLU:CD	2.35	0.51
41:BP:99:LEU:HD12	41:BP:102:ARG:NH1	2.25	0.51
45:BT:68:TYR:C	45:BT:70:VAL:H	2.19	0.51
46:BU:16:LYS:O	46:BU:20:LEU:HD23	2.11	0.51
46:BU:89:GLU:O	46:BU:90:VAL:O	2.29	0.51
47:BV:82:ARG:HD3	47:BV:82:ARG:C	2.36	0.51
48:BW:14:PRO:O	48:BW:15:ARG:C	2.53	0.51
1:CA:39:G:C5	1:CA:40:C:C5	2.98	0.51
1:CA:373:A:C8	1:CA:482:A:C8	2.99	0.51
1:CA:382:A:O2'	1:CA:383:A:H5'	2.11	0.51
1:CA:577:G:C2	1:CA:578:C:C6	2.99	0.51
1:CA:634:C:O2'	1:CA:635:G:H5'	2.11	0.51
1:CA:734:G:H2'	1:CA:735:C:C6	2.46	0.51
1:CA:987:G:N2	1:CA:1219:U:C2	2.79	0.51
1:CA:1242:C:H5"	21:CU:10:ARG:HH12	1.76	0.51
1:CA:1321:C:H3'	1:CA:1322:C:H5"	1.93	0.51
1:CA:1379:G:C6	1:CA:1380:U:O4	2.64	0.51
1:CA:1530:G:C2'	1:CA:1531:A:O5'	2.59	0.51
2:CB:74:LYS:HZ2	2:CB:76:GLN:HB2	1.76	0.51
3:CC:11:ARG:HE	3:CC:180:ALA:HB3	1.75	0.51
8:CH:6:ILE:C	8:CH:8:ASP:N	2.68	0.51
13:CM:82:MET:HB2	13:CM:93:ARG:NH1	2.26	0.51
17:CQ:86:GLU:O	17:CQ:90:ILE:HG12	2.10	0.51
18:CR:58:LEU:HB3	18:CR:62:GLU:CB	2.40	0.51
24:D2:44:LEU:O	24:D2:47:ASN:ND2	2.44	0.51
30:D8:8:LYS:HB3	30:D8:12:LYS:HE3	1.92	0.51
30:D8:32:LEU:HD23	30:D8:35:GLN:HA	1.92	0.51
30:D8:51:ALA:C	30:D8:53:PRO:HD2	2.36	0.51
31:DA:1280:G:H2'	31:DA:1281:G:C5'	2.41	0.51
31:DA:2317:C:C3'	31:DA:2318:G:H5'	2.40	0.51
31:DA:2439:A:H5'	31:DA:2439:A:C8	2.45	0.51
31:DA:2496:C:OP1	42:DQ:81:VAL:CG1	2.59	0.51
31:DA:2784:C:H1'	34:DE:37:ARG:NH2	2.25	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2876:G:H4'	45:DT:3:ARG:CD	2.41	0.51
33:DD:130:ALA:C	33:DD:131:LEU:HD12	2.36	0.51
34:DE:117:MET:HB2	34:DE:122:PHE:O	2.11	0.51
37:DH:43:VAL:HB	37:DH:52:VAL:HA	1.92	0.51
44:DS:53:SER:O	44:DS:56:LEU:HB3	2.10	0.51
47:DV:83:ARG:CG	47:DV:83:ARG:NH1	2.66	0.51
49:DX:65:ARG:HA	49:DX:65:ARG:HE	1.75	0.51
50:DY:75:ILE:HD13	50:DY:80:GLY:O	2.11	0.51
1:AA:61:G:H2'	1:AA:62:U:O4'	2.11	0.51
1:AA:353:A:C2'	1:AA:354:G:OP2	2.58	0.51
1:AA:376:G:O2'	1:AA:377:G:H5'	2.11	0.51
1:AA:781:A:C3'	1:AA:782:A:H5'	2.41	0.51
1:AA:874:G:C6	1:AA:875:C:C4	2.99	0.51
1:AA:1076:C:C2	1:AA:1082:G:N2	2.79	0.51
1:AA:1152:A:O2'	1:AA:1153:C:H5'	2.10	0.51
1:AA:1226:C:N3	13:AM:104:ARG:HG3	2.26	0.51
2:AB:239:VAL:HG12	2:AB:239:VAL:O	2.10	0.51
3:AC:117:ALA:O	3:AC:187:ALA:HB3	2.10	0.51
4:AD:109:GLY:O	4:AD:111:ALA:N	2.43	0.51
6:AF:46:ARG:NH1	18:AR:37:VAL:HG21	2.24	0.51
7:AG:40:ALA:O	7:AG:44:TYR:CD1	2.64	0.51
8:AH:87:SER:OG	8:AH:132:GLU:HG3	2.11	0.51
14:AN:26:ARG:NH1	14:AN:47:LEU:HD21	2.26	0.51
18:AR:53:ARG:C	18:AR:55:ARG:N	2.69	0.51
20:AT:12:ALA:O	20:AT:15:ARG:HB2	2.11	0.51
28:B6:16:CYS:C	28:B6:18:ARG:NE	2.66	0.51
31:BA:527:C:N4	31:BA:2779:U:OP2	2.43	0.51
31:BA:586:A:H2'	41:BP:33:ARG:HH12	1.75	0.51
31:BA:637:A:OP1	41:BP:133:SER:HB3	2.11	0.51
31:BA:1005:C:O2'	39:BN:28:THR:HG21	2.11	0.51
31:BA:1213:A:O2'	31:BA:1214:A:H5'	2.11	0.51
31:BA:1441:G:H2'	31:BA:1442:G:H8	1.76	0.51
31:BA:1712:C:H2'	31:BA:1713:U:H6	1.76	0.51
31:BA:1963:U:O2	31:BA:1963:U:C2'	2.59	0.51
31:BA:1988:C:C2	31:BA:1989:G:C8	2.99	0.51
31:BA:2534:A:C2	31:BA:2535:G:H1'	2.45	0.51
34:BE:27:LEU:HD12	34:BE:181:LEU:HD13	1.92	0.51
45:BT:85:LYS:HG2	45:BT:85:LYS:O	2.10	0.51
49:BX:31:HIS:HD2	49:BX:33:LYS:N	2.09	0.51
50:BY:8:LYS:HB2	50:BY:28:LYS:NZ	2.26	0.51
1:CA:61:G:H2'	1:CA:62:U:O4'	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:342:C:H2'	1:CA:343:U:O4'	2.11	0.51
1:CA:457:C:H2'	1:CA:458:C:C6	2.38	0.51
1:CA:853:G:H2'	1:CA:854:G:H8	1.75	0.51
1:CA:1274:G:N2	1:CA:1275:A:H62	2.09	0.51
9:CI:79:LEU:HD13	9:CI:79:LEU:C	2.36	0.51
12:CL:8:ASN:ND2	17:CQ:34:LYS:HE2	2.26	0.51
13:CM:16:ASP:HB3	13:CM:41:PRO:HB3	1.92	0.51
17:CQ:92:ARG:HG2	17:CQ:93:GLN:N	2.26	0.51
18:CR:53:ARG:C	18:CR:55:ARG:N	2.69	0.51
20:CT:71:THR:HG22	20:CT:72:LEU:H	1.74	0.51
22:D0:53:MET:HB2	22:D0:59:LEU:CD2	2.41	0.51
23:D1:16:ASN:HB3	23:D1:46:LEU:CG	2.41	0.51
24:D2:47:ASN:C	24:D2:49:LYS:N	2.69	0.51
27:D5:55:ARG:HD3	27:D5:56:LYS:N	2.25	0.51
31:DA:26:G:C6	31:DA:27:G:N1	2.79	0.51
31:DA:1531:C:H3'	31:DA:1532:C:C4'	2.40	0.51
31:DA:1763:G:H4'	31:DA:1763:G:OP1	2.11	0.51
31:DA:2591:C:P	33:DD:239:ARG:HG3	2.50	0.51
32:DB:46:A:C6	32:DB:47:C:C4	2.99	0.51
35:DF:28:ILE:HA	35:DF:112:MET:HG2	1.92	0.51
36:DG:129:GLY:C	36:DG:130:ASN:CG	2.79	0.51
38:DI:130:TYR:CB	38:DI:136:VAL:HG13	2.40	0.51
41:DP:34:GLY:O	41:DP:35:HIS:CG	2.64	0.51
42:DQ:89:ASN:O	42:DQ:92:GLY:N	2.29	0.51
45:DT:28:VAL:HG22	45:DT:46:GLU:HG3	1.89	0.51
47:DV:40:LEU:C	47:DV:40:LEU:CD1	2.83	0.51
47:DV:79:VAL:O	47:DV:80:GLN:CB	2.46	0.51
50:DY:66:PRO:O	50:DY:67:LEU:HB3	2.12	0.51
51:DZ:156:LYS:O	51:DZ:158:PRO:HD3	2.11	0.51
1:AA:149:A:O2'	1:AA:150:C:P	2.68	0.50
1:AA:321:A:C2	1:AA:333:G:C2	3.00	0.50
1:AA:375:U:C2	1:AA:376:G:C8	2.99	0.50
2:AB:55:PHE:HA	2:AB:58:ILE:HG12	1.93	0.50
2:AB:63:MET:HB3	2:AB:225:ALA:HB1	1.91	0.50
10:AJ:33:GLN:O	10:AJ:75:ILE:HG12	2.12	0.50
11:AK:20:TYR:C	11:AK:21:ILE:HD12	2.36	0.50
12:AL:6:THR:OG1	12:AL:9:GLN:HG3	2.11	0.50
18:AR:47:THR:OG1	18:AR:49:LYS:HG3	2.11	0.50
30:B8:50:LEU:C	30:B8:53:PRO:HD2	2.36	0.50
31:BA:478:A:C6	31:BA:480:A:C6	3.00	0.50
31:BA:668:G:C5'	31:BA:669:G:OP2	2.60	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:806:C:P	41:BP:39:LYS:HG3	2.51	0.50
31:BA:934:G:H2'	31:BA:935:C:C6	2.46	0.50
31:BA:1190:G:C5'	41:BP:35:HIS:HA	2.41	0.50
31:BA:1357:U:H2'	31:BA:1358:G:O4'	2.12	0.50
31:BA:1803:A:H4'	33:BD:259:THR:CG2	2.41	0.50
31:BA:2654:A:H1'	31:BA:2656:U:C5	2.46	0.50
31:BA:2664:G:C2'	31:BA:2665:A:O5'	2.60	0.50
36:BG:133:LEU:HD12	36:BG:133:LEU:O	2.11	0.50
43:BR:18:LEU:O	43:BR:19:ALA:C	2.54	0.50
43:BR:38:VAL:HG12	43:BR:42:LYS:HD2	1.92	0.50
45:BT:53:ARG:HG3	45:BT:53:ARG:HH11	1.75	0.50
49:BX:52:VAL:HG21	49:BX:82:GLN:HA	1.93	0.50
1:CA:173:U:O4'	1:CA:197:A:C4	2.64	0.50
1:CA:582:U:C2	1:CA:760:G:C6	2.99	0.50
1:CA:872:A:C4	1:CA:874:G:N7	2.78	0.50
1:CA:1238:A:N6	1:CA:1299:A:H62	2.09	0.50
1:CA:1277:C:H2'	1:CA:1278:U:C5'	2.42	0.50
2:CB:158:LEU:HD12	2:CB:158:LEU:N	2.25	0.50
6:CF:5:GLU:HB3	6:CF:62:TRP:HE1	1.75	0.50
6:CF:37:VAL:HA	6:CF:65:VAL:HG12	1.93	0.50
10:CJ:42:THR:HG23	10:CJ:68:HIS:HA	1.93	0.50
11:CK:33:THR:HA	11:CK:39:PRO:HA	1.92	0.50
12:CL:102:ARG:CG	12:CL:102:ARG:NH1	2.56	0.50
12:CL:110:VAL:HG21	12:CL:120:TYR:HB3	1.93	0.50
13:CM:92:HIS:CE1	13:CM:98:VAL:HG23	2.45	0.50
23:D1:26:ARG:HB2	23:D1:34:THR:HB	1.93	0.50
31:DA:107:C:H2'	31:DA:108:U:C6	2.41	0.50
31:DA:174:C:H2'	31:DA:175:G:H5"	1.92	0.50
31:DA:266:G:N2	31:DA:427:U:H1'	2.26	0.50
31:DA:494:G:H21	48:DW:57:ASN:HD21	1.58	0.50
31:DA:1109:C:H5	31:DA:1110:G:C4	2.28	0.50
31:DA:1280:G:C3'	31:DA:1281:G:C5'	2.88	0.50
31:DA:1669:A:H5"	31:DA:1670:C:OP2	2.10	0.50
31:DA:2001:A:H2'	31:DA:2002:G:C8	2.46	0.50
31:DA:2492:U:H2'	31:DA:2493:U:C6	2.45	0.50
31:DA:2544:G:O2'	31:DA:2545:G:H5'	2.11	0.50
32:DB:45:A:C2	32:DB:46:A:H1'	2.47	0.50
36:DG:33:ARG:HB2	36:DG:162:THR:OG1	2.11	0.50
38:DI:76:THR:HG22	38:DI:139:GLN:HB3	1.93	0.50
41:DP:148:LEU:HD22	41:DP:148:LEU:O	2.11	0.50
44:DS:56:LEU:HD22	44:DS:58:LEU:HB2	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DT:106:SER:HA	45:DT:110:ILE:CG1	2.41	0.50
46:DU:92:ARG:NH2	47:DV:10:LYS:CB	2.74	0.50
1:AA:66:G:C4'	1:AA:173:U:C5	2.94	0.50
1:AA:828:A:N6	1:AA:858:G:O2'	2.41	0.50
1:AA:973:G:C4	10:AJ:55:LYS:HE2	2.46	0.50
1:AA:1285:A:H4'	1:AA:1286:A:O5'	2.11	0.50
1:AA:1322:C:H5'	13:AM:100:GLY:HA3	1.92	0.50
1:AA:1414:U:H3	1:AA:1486:G:H1	1.59	0.50
1:AA:1426:C:O2'	1:AA:1427:U:H5'	2.11	0.50
3:AC:35:GLU:O	3:AC:39:ILE:HG13	2.12	0.50
4:AD:148:VAL:HG12	4:AD:149:ALA:N	2.25	0.50
5:AE:80:ILE:CD1	5:AE:138:ALA:HB1	2.40	0.50
6:AF:3:ARG:HD3	6:AF:38:GLU:OE1	2.12	0.50
12:AL:28:LYS:CE	12:AL:33:ARG:HH12	2.24	0.50
20:AT:56:MET:O	20:AT:59:ALA:HB3	2.11	0.50
23:B1:19:GLN:CG	23:B1:44:PRO:HG3	2.41	0.50
23:B1:83:GLU:C	23:B1:85:LEU:H	2.19	0.50
24:B2:12:GLU:HG2	24:B2:12:GLU:O	2.09	0.50
30:B8:38:GLY:C	30:B8:40:GLU:H	2.18	0.50
30:B8:39:LYS:CE	30:B8:42:ARG:HH12	2.24	0.50
31:BA:353:G:H2'	31:BA:354:G:O5'	2.10	0.50
31:BA:494:G:N2	48:BW:57:ASN:HD21	2.09	0.50
31:BA:576:U:H2'	31:BA:577:G:C8	2.46	0.50
31:BA:740:U:H2'	31:BA:741:G:C8	2.46	0.50
31:BA:1044:G:C2	31:BA:1112:G:O6	2.65	0.50
31:BA:1112:G:C1'	31:BA:1113:U:OP1	2.60	0.50
31:BA:1188:U:O2'	31:BA:1189:A:H5'	2.10	0.50
31:BA:1677:A:H2'	31:BA:1678:G:C8	2.45	0.50
31:BA:1797:C:O2'	33:BD:259:THR:HB	2.11	0.50
33:BD:25:THR:CB	33:BD:82:ILE:H	2.23	0.50
34:BE:2:LYS:HB3	34:BE:95:ILE:CG2	2.41	0.50
37:BH:121:ILE:HG23	37:BH:133:VAL:HG13	1.94	0.50
38:BI:5:LEU:O	38:BI:6:LEU:HD23	2.11	0.50
38:BI:75:LEU:HD12	38:BI:76:THR:N	2.25	0.50
39:BN:36:GLY:N	39:BN:42:TRP:HZ3	2.09	0.50
39:BN:128:HIS:O	39:BN:129:PRO:C	2.54	0.50
41:BP:135:LEU:HD11	41:BP:144:GLU:OE2	2.10	0.50
41:BP:144:GLU:N	41:BP:145:PRO:CD	2.74	0.50
44:BS:35:ILE:N	44:BS:53:SER:HB2	2.25	0.50
44:BS:93:LYS:C	44:BS:93:LYS:HE3	2.37	0.50
49:BX:7:VAL:O	49:BX:30:VAL:HG12	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BZ:52:SER:OG	51:BZ:53:ILE:N	2.44	0.50
1:CA:502:G:C2	1:CA:503:C:O2	2.64	0.50
1:CA:878:G:C5'	8:CH:89:PRO:HG2	2.41	0.50
1:CA:1067:A:H4'	1:CA:1068:G:O5'	2.11	0.50
1:CA:1248:A:H2'	1:CA:1249:C:H5'	1.94	0.50
1:CA:1271:G:H5'	1:CA:1314:C:H5'	1.92	0.50
1:CA:1497:G:C2'	1:CA:1498:U:H5'	2.40	0.50
2:CB:63:MET:HB3	2:CB:225:ALA:HB1	1.92	0.50
4:CD:79:PHE:CE1	4:CD:204:ILE:HA	2.46	0.50
7:CG:85:TYR:CD1	7:CG:154:TYR:HE1	2.29	0.50
13:CM:31:LYS:HA	13:CM:34:LEU:HD12	1.92	0.50
13:CM:52:GLU:O	13:CM:56:LEU:HB2	2.11	0.50
15:CO:71:GLN:HA	15:CO:78:TYR:HB2	1.93	0.50
23:D1:78:LYS:O	23:D1:80:LEU:HG	2.12	0.50
27:D5:6:VAL:HG13	27:D5:7:PRO:HD2	1.94	0.50
31:DA:142:A:H5"	31:DA:142(A):C:C5	2.46	0.50
31:DA:298:G:H5"	31:DA:299:A:OP1	2.11	0.50
31:DA:528:A:H3'	31:DA:528:A:C8	2.47	0.50
31:DA:597:U:H2'	31:DA:598:G:C8	2.46	0.50
31:DA:1317:A:H2'	31:DA:1318:C:H6	1.76	0.50
31:DA:1416:G:O2'	31:DA:1417:C:P	2.69	0.50
31:DA:2065:C:H2'	31:DA:2066:C:C6	2.46	0.50
31:DA:2632:A:H1'	34:DE:61:ARG:HH12	1.72	0.50
31:DA:2787:C:HO2'	31:DA:2810:A:HO2'	1.57	0.50
32:DB:35:U:O2'	32:DB:36:C:H5'	2.10	0.50
33:DD:11:PRO:O	33:DD:12:SER:C	2.54	0.50
33:DD:83:GLU:OE1	33:DD:104:TYR:CE2	2.64	0.50
34:DE:70:ALA:C	34:DE:72:VAL:N	2.70	0.50
36:DG:98:ARG:O	36:DG:101:ILE:HG22	2.10	0.50
37:DH:103:LEU:HD11	37:DH:105:LEU:HD11	1.93	0.50
39:DN:78:TYR:CD1	39:DN:79:PRO:HB3	2.46	0.50
40:DO:50:GLY:C	40:DO:52:VAL:N	2.65	0.50
41:DP:88:LEU:HD11	41:DP:95:VAL:HG21	1.92	0.50
42:DQ:12:GLN:HG2	42:DQ:73:PRO:HD2	1.92	0.50
42:DQ:109:VAL:CG1	42:DQ:110:THR:N	2.74	0.50
43:DR:70:LEU:HD23	43:DR:70:LEU:N	2.26	0.50
43:DR:75:LEU:HD13	43:DR:75:LEU:O	2.12	0.50
45:DT:31:SER:HA	45:DT:32:TYR:CD2	2.46	0.50
50:DY:32:PRO:C	50:DY:34:LYS:H	2.18	0.50
50:DY:87:LYS:O	50:DY:88:LYS:HB2	2.11	0.50
1:AA:173:U:C6	1:AA:197:A:C2	2.99	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:933:G:O6	7:AG:3:ARG:NH2	2.44	0.50
1:AA:987:G:N2	1:AA:1219:U:C2	2.80	0.50
1:AA:1090:U:C2	1:AA:1091:U:C5	2.99	0.50
1:AA:1411:C:O2'	1:AA:1412:C:H5'	2.11	0.50
1:AA:1502:A:H5'	1:AA:1504:G:N7	2.27	0.50
2:AB:178:ARG:HH22	2:AB:196:LEU:C	2.19	0.50
6:AF:26:ILE:O	6:AF:30:LEU:HG	2.12	0.50
8:AH:44:PHE:HD1	8:AH:80:ILE:HG12	1.75	0.50
10:AJ:6:ILE:HA	10:AJ:97:GLU:O	2.12	0.50
12:AL:8:ASN:ND2	17:AQ:34:LYS:HE2	2.25	0.50
12:AL:27:LEU:O	12:AL:28:LYS:C	2.53	0.50
14:AN:12:ARG:C	14:AN:14:PRO:HD3	2.36	0.50
17:AQ:3:LYS:CD	17:AQ:60:ILE:HD11	2.41	0.50
23:B1:16:ASN:HB3	23:B1:46:LEU:CD1	2.42	0.50
24:B2:37:PHE:O	24:B2:37:PHE:CD2	2.63	0.50
25:B3:50:VAL:O	25:B3:54:VAL:HG22	2.12	0.50
26:B4:1:MET:N	36:BG:67:LYS:NZ	2.58	0.50
26:B4:23:GLU:O	26:B4:24:THR:CB	2.59	0.50
31:BA:186:G:H2'	31:BA:187:G:H8	1.76	0.50
31:BA:271(N):U:H4'	31:BA:271(O):C:O5'	2.10	0.50
31:BA:867:C:C5	31:BA:868:U:H5	2.28	0.50
31:BA:999:U:C2'	31:BA:1000:A:H5'	2.40	0.50
31:BA:1168:G:O2'	31:BA:1169:G:H5'	2.10	0.50
31:BA:1449:A:HO2'	31:BA:1530:C:H5	1.59	0.50
31:BA:2713:A:C3'	31:BA:2714:G:C5'	2.89	0.50
31:BA:2748:A:N6	31:BA:2749:A:C6	2.80	0.50
31:BA:2850:A:H2'	31:BA:2851:A:O5'	2.11	0.50
33:BD:255:LYS:NZ	33:BD:255:LYS:N	2.58	0.50
34:BE:59:VAL:C	34:BE:60:ASN:ND2	2.69	0.50
35:BF:141:ALA:O	35:BF:144:LYS:HB3	2.12	0.50
37:BH:41:MET:SD	37:BH:55:PRO:CD	2.94	0.50
37:BH:54:ARG:HG2	37:BH:65:HIS:HD2	1.75	0.50
37:BH:138:LYS:C	37:BH:140:LYS:N	2.66	0.50
37:BH:149:ARG:HD3	37:BH:164:TYR:CE1	2.46	0.50
41:BP:110:TYR:O	41:BP:111:ARG:C	2.55	0.50
47:BV:25:LEU:N	47:BV:94:LEU:HD13	2.25	0.50
47:BV:70:ILE:HG13	47:BV:71:LEU:N	2.26	0.50
48:BW:78:GLU:OE2	48:BW:99:ARG:HD3	2.11	0.50
50:BY:95:LYS:HE2	50:BY:101:LYS:CA	2.39	0.50
51:BZ:150:LEU:N	51:BZ:150:LEU:HD13	2.26	0.50
51:BZ:150:LEU:CA	51:BZ:151:HIS:HD2	2.24	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:30:U:H4'	1:CA:31:G:OP2	2.09	0.50
1:CA:96:U:O2'	1:CA:97:G:P	2.69	0.50
1:CA:115:G:H4'	1:CA:116:A:O5'	2.10	0.50
1:CA:671:G:C4	1:CA:672:U:C5	2.99	0.50
1:CA:946:A:H2'	1:CA:947:G:H8	1.76	0.50
1:CA:1058:G:C5	1:CA:1059:C:C4	2.99	0.50
1:CA:1501:C:H5"	1:CA:1502:A:OP2	2.11	0.50
2:CB:61:LEU:HD12	2:CB:61:LEU:O	2.11	0.50
2:CB:67:THR:HG22	2:CB:90:MET:HE1	1.93	0.50
6:CF:10:LEU:HD12	6:CF:10:LEU:N	2.26	0.50
9:CI:79:LEU:HD11	9:CI:83:ARG:CZ	2.41	0.50
13:CM:45:VAL:O	13:CM:48:LEU:HD22	2.12	0.50
19:CS:19:VAL:HG12	19:CS:44:MET:HE2	1.94	0.50
28:D6:16:CYS:O	28:D6:18:ARG:NH2	2.44	0.50
29:D7:39:ARG:HD3	31:DA:458:G:O2'	2.11	0.50
31:DA:157:U:H5'	31:DA:171:G:N2	2.25	0.50
31:DA:574:C:H1'	31:DA:2055:C:C6	2.46	0.50
31:DA:672:C:O2'	31:DA:673:C:H5'	2.11	0.50
31:DA:745:G:OP1	34:DE:133:LYS:HE3	2.11	0.50
31:DA:900:A:H3'	31:DA:901:A:H8	1.76	0.50
31:DA:1357:U:H2'	31:DA:1358:G:O4'	2.11	0.50
31:DA:1418:G:H8	31:DA:1418:G:O5'	1.94	0.50
31:DA:1652:A:C8	31:DA:1652:A:C5'	2.90	0.50
31:DA:2394:C:OP1	41:DP:63:PRO:CD	2.47	0.50
32:DB:46:A:C5	32:DB:47:C:C5	2.99	0.50
34:DE:57:LYS:O	34:DE:57:LYS:HG3	2.11	0.50
35:DF:20:LEU:HD13	35:DF:203:GLN:CD	2.36	0.50
36:DG:18:GLU:HG2	36:DG:175:LEU:HD21	1.93	0.50
37:DH:86:GLU:HB3	37:DH:132:ARG:CB	2.39	0.50
41:DP:71:VAL:CG1	41:DP:72:PRO:CD	2.71	0.50
45:DT:27:THR:HG22	45:DT:49:VAL:HG12	1.93	0.50
46:DU:92:ARG:NH2	47:DV:10:LYS:HG2	2.26	0.50
51:DZ:145:GLU:O	51:DZ:147:GLY:N	2.45	0.50
1:AA:321:A:N7	1:AA:328:C:O2'	2.33	0.50
1:AA:710:G:H5"	6:AF:54:LYS:HE3	1.92	0.50
1:AA:723:U:H5"	1:AA:724:G:OP2	2.11	0.50
1:AA:763:G:C4	1:AA:764:C:C6	2.99	0.50
1:AA:1477:C:H2'	1:AA:1478:C:C6	2.46	0.50
2:AB:114:ARG:HA	2:AB:117:GLU:HB2	1.92	0.50
3:AC:20:SER:HB2	3:AC:40:ARG:HH22	1.75	0.50
9:AI:79:LEU:C	9:AI:79:LEU:HD13	2.36	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:33:THR:HA	11:AK:39:PRO:HA	1.92	0.50
12:AL:55:VAL:HG12	12:AL:69:TYR:HA	1.93	0.50
13:AM:45:VAL:O	13:AM:48:LEU:HD22	2.12	0.50
19:AS:6:LYS:HD2	19:AS:6:LYS:N	2.26	0.50
22:B0:70:GLN:OE1	22:B0:72:ARG:HD2	2.11	0.50
24:B2:18:PRO:C	24:B2:20:GLU:N	2.69	0.50
29:B7:12:ARG:HG3	31:BA:686:G:O6	2.11	0.50
31:BA:271(A):A:C2	31:BA:272(D):G:N3	2.80	0.50
31:BA:272(B):G:O2'	31:BA:272(C):G:H5'	2.11	0.50
31:BA:280:C:H2'	31:BA:281:G:C5'	2.41	0.50
31:BA:494:G:H21	48:BW:57:ASN:HD21	1.58	0.50
31:BA:662:G:P	41:BP:18:ARG:HG2	2.51	0.50
31:BA:1468:C:O2'	31:BA:1469:A:H5'	2.12	0.50
31:BA:1491:G:O2'	31:BA:1492:G:H5'	2.12	0.50
31:BA:2803:C:H2'	31:BA:2804:C:O4'	2.10	0.50
31:BA:2895:U:H5	31:BA:2896:C:C5	2.30	0.50
33:BD:70:TRP:CZ3	33:BD:146:GLU:OE2	2.64	0.50
35:BF:88:VAL:HG11	35:BF:91:GLY:HA3	1.92	0.50
42:BQ:19:GLY:C	42:BQ:21:THR:H	2.19	0.50
45:BT:92:GLY:HA2	45:BT:114:LEU:HB3	1.94	0.50
46:BU:92:ARG:HH22	47:BV:10:LYS:HB3	1.75	0.50
47:BV:18:LEU:O	47:BV:19:LYS:HB2	2.11	0.50
48:BW:12:ILE:CG2	48:BW:17:VAL:CG2	2.90	0.50
1:CA:353:A:C2'	1:CA:354:G:OP2	2.59	0.50
1:CA:353:A:H2'	1:CA:354:G:OP2	2.10	0.50
1:CA:382:A:C2	1:CA:383:A:C5	2.99	0.50
1:CA:1048:G:OP1	14:CN:4:LYS:HB2	2.11	0.50
3:CC:136:GLN:HG2	3:CC:140:ARG:NH2	2.26	0.50
4:CD:4:TYR:CD1	4:CD:4:TYR:C	2.88	0.50
4:CD:128:VAL:HA	4:CD:145:GLU:O	2.11	0.50
8:CH:87:SER:CA	8:CH:93:VAL:HB	2.42	0.50
9:CI:3:GLN:HB3	9:CI:20:ARG:NH1	2.26	0.50
16:CP:39:TYR:CD2	16:CP:73:LEU:CD1	2.93	0.50
23:D1:11:ARG:CB	23:D1:12:PRO:CD	2.89	0.50
27:D5:40:LYS:NZ	27:D5:46:CYS:O	2.43	0.50
30:D8:35:GLN:HE21	30:D8:36:LYS:CG	2.24	0.50
31:DA:128:C:C6	31:DA:128:C:C3'	2.94	0.50
31:DA:828:U:C5	31:DA:829:A:N6	2.79	0.50
31:DA:892:G:C5	31:DA:893:C:C5	2.99	0.50
31:DA:1276:A:C2	31:DA:1277:G:C8	2.99	0.50
31:DA:1321:A:H2'	31:DA:1322:A:O4'	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1510:G:O2'	31:DA:1511:C:H5'	2.11	0.50
31:DA:1885:A:H2'	31:DA:1886:C:O4'	2.10	0.50
31:DA:2470:G:C2	31:DA:2471:C:C6	2.99	0.50
32:DB:80:U:H2'	32:DB:81:G:H21	1.76	0.50
33:DD:44:ASN:HB3	33:DD:49:ILE:CA	2.27	0.50
37:DH:85:LYS:HZ1	37:DH:145:ALA:HA	1.76	0.50
44:DS:95:HIS:CD2	44:DS:96:GLY:H	2.29	0.50
49:DX:52:VAL:CG2	49:DX:82:GLN:HA	2.41	0.50
50:DY:14:LEU:HD11	50:DY:22:GLY:HA2	1.93	0.50
50:DY:20:TYR:CD2	50:DY:41:GLY:HA2	2.46	0.50
51:DZ:56:VAL:HA	51:DZ:70:LEU:CD2	2.42	0.50
1:AA:222:U:C2	1:AA:223:U:C5	3.00	0.50
1:AA:552:U:C2'	1:AA:553:A:H5'	2.41	0.50
1:AA:882:C:O2'	1:AA:883:C:H5'	2.11	0.50
1:AA:1179:A:O2'	9:AI:103:THR:HG23	2.11	0.50
1:AA:1428:A:H2'	1:AA:1429:C:C6	2.47	0.50
1:AA:1484:C:O2'	31:BA:1961:C:H5'	2.10	0.50
2:AB:32:ILE:HA	2:AB:42:ILE:HA	1.94	0.50
2:AB:97:TRP:CH2	2:AB:176:GLU:OE2	2.65	0.50
2:AB:97:TRP:CZ2	2:AB:102:LEU:HD13	2.46	0.50
3:AC:112:SER:HB3	3:AC:115:LEU:HD12	1.94	0.50
5:AE:152:ARG:HG2	8:AH:43:GLY:O	2.12	0.50
12:AL:6:THR:HG23	12:AL:9:GLN:NE2	2.19	0.50
29:B7:35:ARG:HG3	29:B7:42:LEU:HD11	1.93	0.50
31:BA:1278:A:O2'	31:BA:1279:G:H5'	2.10	0.50
31:BA:1798:U:H5"	33:BD:259:THR:CG2	2.37	0.50
31:BA:2046:G:C4	31:BA:2047:U:C5	3.00	0.50
31:BA:2439:A:C8	31:BA:2439:A:H5'	2.47	0.50
31:BA:2807:G:N2	31:BA:2808:U:H1'	2.26	0.50
31:BA:2884:U:H2'	31:BA:2885:C:C5'	2.41	0.50
34:BE:70:ALA:O	34:BE:72:VAL:N	2.45	0.50
40:BO:50:GLY:C	40:BO:52:VAL:N	2.62	0.50
41:BP:101:VAL:HG12	41:BP:106:LEU:HD23	1.93	0.50
44:BS:26:LEU:HD22	44:BS:87:PHE:CD1	2.46	0.50
1:CA:152:A:N6	1:CA:170:U:C2	2.79	0.50
1:CA:323:U:OP1	20:CT:26:ASN:ND2	2.45	0.50
1:CA:457:C:O5'	1:CA:457:C:H6	1.93	0.50
1:CA:724:G:N3	1:CA:725:G:C8	2.79	0.50
1:CA:862:C:H2'	1:CA:863:U:C5'	2.40	0.50
1:CA:916:G:H2'	1:CA:917:G:H8	1.75	0.50
1:CA:1285:A:H4'	1:CA:1286:A:O5'	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1392:G:N2	1:CA:1502:A:H8	2.10	0.50
2:CB:178:ARG:HH22	2:CB:196:LEU:C	2.19	0.50
3:CC:14:ILE:HG23	3:CC:15:THR:N	2.26	0.50
3:CC:20:SER:HB2	3:CC:40:ARG:HH22	1.77	0.50
5:CE:12:LEU:C	5:CE:12:LEU:HD22	2.36	0.50
6:CF:19:LEU:HD21	6:CF:59:TYR:CE2	2.46	0.50
8:CH:63:LEU:HD22	8:CH:63:LEU:H	1.76	0.50
12:CL:27:LEU:O	12:CL:28:LYS:C	2.55	0.50
18:CR:66:LEU:O	18:CR:70:ILE:HG12	2.12	0.50
20:CT:50:GLU:CB	20:CT:100:ILE:HG12	2.35	0.50
20:CT:80:ARG:O	20:CT:84:LEU:HB2	2.11	0.50
31:DA:231:C:O2'	31:DA:232:G:H5'	2.12	0.50
31:DA:848:G:C4	31:DA:933:A:C8	2.99	0.50
31:DA:1169:G:N2	31:DA:1181:C:C2	2.79	0.50
31:DA:1176:G:C4'	31:DA:1177:A:OP1	2.60	0.50
31:DA:1786:A:H4'	31:DA:1787:A:OP2	2.10	0.50
31:DA:1799:G:N7	33:DD:179:SER:OG	2.45	0.50
31:DA:2564:A:C2	31:DA:2647:U:H4'	2.46	0.50
32:DB:32:C:C2	32:DB:51:G:N2	2.79	0.50
35:DF:51:THR:OG1	35:DF:91:GLY:HA3	2.11	0.50
41:DP:99:LEU:HD12	41:DP:102:ARG:HH12	1.76	0.50
47:DV:70:ILE:CB	47:DV:90:PRO:HB2	2.42	0.50
48:DW:27:LYS:O	48:DW:71:VAL:HG23	2.11	0.50
50:DY:95:LYS:HE2	50:DY:101:LYS:N	2.26	0.50
1:AA:403:C:O2'	1:AA:404:U:H5'	2.12	0.50
1:AA:540:G:C2'	1:AA:541:G:H5'	2.41	0.50
1:AA:661:G:C2	1:AA:662:G:C8	2.99	0.50
1:AA:682:G:C6	1:AA:683:G:N7	2.80	0.50
1:AA:694:A:H2'	1:AA:695:A:O5'	2.11	0.50
1:AA:1252:A:H2'	1:AA:1253:G:O4'	2.12	0.50
1:AA:1480:G:H2'	1:AA:1481:U:O4'	2.12	0.50
3:AC:114:PRO:HG3	3:AC:185:GLY:HA3	1.94	0.50
7:AG:4:ARG:HD3	7:AG:5:ARG:NH1	2.27	0.50
9:AI:15:ALA:HA	9:AI:65:VAL:HA	1.94	0.50
9:AI:122:ALA:HB1	9:AI:123:PRO:HD2	1.92	0.50
10:AJ:32:ALA:H	10:AJ:78:ASN:HD21	1.60	0.50
12:AL:10:LEU:HB3	17:AQ:32:TYR:CE1	2.47	0.50
18:AR:53:ARG:NH2	18:AR:60:ALA:N	2.57	0.50
23:B1:65:SER:N	23:B1:67:ILE:CD1	2.59	0.50
28:B6:13:CYS:HA	28:B6:50:ARG:O	2.11	0.50
30:B8:2:PRO:N	31:BA:591:C:O2	2.44	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:61:LEU:HD13	31:BA:593:G:C4'	2.37	0.50
31:BA:547:A:C8	31:BA:549:G:C6	2.99	0.50
31:BA:754:C:H2'	31:BA:755:C:C6	2.46	0.50
31:BA:922:U:H2'	31:BA:923:C:C6	2.47	0.50
31:BA:1015:G:H2'	31:BA:1016:G:H5'	1.92	0.50
31:BA:1205:U:H3'	31:BA:1206:G:H5'	1.94	0.50
31:BA:1529:G:N2	31:BA:1530:C:H2'	2.27	0.50
31:BA:2418:A:H2'	31:BA:2419:U:C6	2.46	0.50
31:BA:2476:A:H2	31:BA:2477:C:H2'	1.77	0.50
31:BA:2492:U:H2'	31:BA:2493:U:C6	2.44	0.50
31:BA:2637:U:O2'	31:BA:2638:G:H5'	2.11	0.50
31:BA:2784:C:H1'	34:BE:37:ARG:NH2	2.27	0.50
32:BB:61:G:C6	32:BB:62:C:C4	2.99	0.50
34:BE:10:GLY:HA3	45:BT:8:LYS:HZ1	1.76	0.50
34:BE:181:LEU:HD11	45:BT:7:ILE:HG21	1.94	0.50
35:BF:24:LEU:O	35:BF:25:PRO:C	2.54	0.50
35:BF:28:ILE:HA	35:BF:112:MET:HG2	1.92	0.50
38:BI:78:THR:O	38:BI:79:ILE:HD13	2.11	0.50
39:BN:75:TYR:N	39:BN:75:TYR:HD1	2.10	0.50
45:BT:101:PHE:HE2	45:BT:113:LYS:HD2	1.76	0.50
46:BU:55:ARG:O	46:BU:56:ASP:C	2.55	0.50
46:BU:95:LEU:CD1	47:BV:11:GLN:HG3	2.40	0.50
50:BY:2:ARG:C	50:BY:4:LYS:N	2.69	0.50
1:CA:187:C:H2'	1:CA:188:C:H6	1.77	0.50
1:CA:189(C):C:H2'	1:CA:189(D):C:H5'	1.93	0.50
1:CA:403:C:O2'	1:CA:404:U:H5'	2.12	0.50
1:CA:540:G:C2'	1:CA:541:G:H5'	2.41	0.50
1:CA:701:C:O2	1:CA:703:G:N1	2.44	0.50
1:CA:775:G:C2'	1:CA:776:G:H5'	2.42	0.50
1:CA:945:G:C2	1:CA:946:A:C8	3.00	0.50
1:CA:950:U:H2'	1:CA:951:G:C8	2.44	0.50
1:CA:1478:C:H2'	1:CA:1479:C:C6	2.45	0.50
2:CB:67:THR:HG21	2:CB:155:LEU:CD2	2.41	0.50
6:CF:69:GLU:HG2	6:CF:70:ASP:N	2.25	0.50
8:CH:31:PHE:O	8:CH:35:ILE:HG13	2.10	0.50
20:CT:75:ASN:H	20:CT:75:ASN:HD22	1.59	0.50
27:D5:2:ALA:CA	31:DA:2015:A:H1'	2.36	0.50
28:D6:29:ASN:O	28:D6:30:THR:C	2.52	0.50
30:D8:5:LYS:HE2	31:DA:254:G:N7	2.27	0.50
31:DA:195:A:H4'	31:DA:251:A:O2'	2.12	0.50
31:DA:262:A:H2'	31:DA:263:C:O4'	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:363(A):A:H2'	31:DA:363(A):A:N3	2.27	0.50
31:DA:536:A:C2'	31:DA:537:C:O5'	2.59	0.50
31:DA:1810:A:C2'	31:DA:1811:G:H5'	2.40	0.50
31:DA:2664:G:C2'	31:DA:2665:A:O5'	2.60	0.50
31:DA:2762:G:H2'	31:DA:2763:G:C5'	2.42	0.50
31:DA:2854:G:H2'	31:DA:2855:C:C6	2.47	0.50
33:DD:34:VAL:O	33:DD:34:VAL:HG13	2.12	0.50
33:DD:126:GLN:O	33:DD:193:VAL:CG1	2.57	0.50
36:DG:71:THR:HG22	36:DG:72:ARG:N	2.25	0.50
41:DP:99:LEU:HD12	41:DP:102:ARG:NH1	2.26	0.50
42:DQ:23:GLY:O	42:DQ:100:GLY:CA	2.59	0.50
46:DU:57:PHE:O	46:DU:58:ARG:C	2.54	0.50
48:DW:55:ALA:O	48:DW:56:ALA:C	2.54	0.50
50:DY:8:LYS:N	50:DY:8:LYS:HD2	2.27	0.50
50:DY:28:LYS:HB2	50:DY:37:VAL:C	2.36	0.50
50:DY:96:ILE:HB	50:DY:99:CYS:C	2.37	0.50
1:AA:81:U:C4	1:AA:83:U:C5	3.00	0.50
1:AA:498:U:H2'	1:AA:498:U:O2	2.12	0.50
1:AA:542:G:C2	1:AA:543:C:C5	2.99	0.50
1:AA:581:G:N2	1:AA:582:U:C4	2.80	0.50
1:AA:684:A:H2'	1:AA:685:G:C8	2.46	0.50
1:AA:736:C:H2'	1:AA:737:A:C8	2.46	0.50
1:AA:1067:A:H1'	1:AA:1068:G:C8	2.47	0.50
3:AC:14:ILE:HG12	3:AC:15:THR:H	1.77	0.50
5:AE:28:PHE:O	5:AE:47:LYS:HA	2.12	0.50
8:AH:87:SER:CA	8:AH:93:VAL:HB	2.42	0.50
9:AI:118:LYS:NZ	9:AI:118:LYS:CB	2.74	0.50
13:AM:52:GLU:O	13:AM:56:LEU:HB2	2.11	0.50
15:AO:8:LYS:O	15:AO:12:ILE:HG13	2.11	0.50
16:AP:74:LEU:O	16:AP:79:VAL:HG23	2.11	0.50
20:AT:87:LYS:HE3	20:AT:91:LEU:HD11	1.92	0.50
23:B1:64:ALA:HA	23:B1:67:ILE:CG1	2.41	0.50
31:BA:384:U:H2'	31:BA:385:C:H6	1.77	0.50
31:BA:579:G:H2'	31:BA:580:C:C6	2.46	0.50
31:BA:705:A:O2'	31:BA:706:A:H5'	2.11	0.50
31:BA:1889:A:N1	31:BA:2234:G:H1'	2.26	0.50
31:BA:2796:U:O2'	31:BA:2799:C:H5'	2.11	0.50
33:BD:179:SER:HB2	33:BD:181:GLU:H	1.76	0.50
35:BF:184:TYR:CD2	35:BF:188:ARG:HD2	2.47	0.50
38:BI:120:ILE:HG22	38:BI:121:LYS:N	2.27	0.50
41:BP:65:ARG:NH1	41:BP:65:ARG:HB2	2.26	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BV:19:LYS:HG3	47:BV:20:LEU:CA	2.40	0.50
47:BV:40:LEU:C	47:BV:40:LEU:HD12	2.37	0.50
50:BY:12:THR:HG22	50:BY:12:THR:O	2.11	0.50
1:CA:394:G:H2'	1:CA:395:C:C6	2.43	0.50
1:CA:782:A:H4'	1:CA:1514:C:O2'	2.12	0.50
1:CA:783:C:O2'	1:CA:784:C:H5'	2.11	0.50
1:CA:1074:G:N3	1:CA:1102:A:C2	2.80	0.50
1:CA:1104:G:OP1	2:CB:111:ARG:HD2	2.11	0.50
1:CA:1238:A:H62	1:CA:1299:A:H62	1.56	0.50
1:CA:1401:G:C2	1:CA:1402:C:H1'	2.47	0.50
2:CB:21:ARG:HB2	2:CB:38:GLY:O	2.11	0.50
2:CB:223:ILE:C	2:CB:225:ALA:H	2.20	0.50
4:CD:6:GLY:O	4:CD:7:PRO:C	2.55	0.50
8:CH:6:ILE:HB	8:CH:85:ARG:HH12	1.76	0.50
10:CJ:6:ILE:HA	10:CJ:97:GLU:O	2.11	0.50
11:CK:34:ASP:HB3	11:CK:40:ILE:HD11	1.92	0.50
12:CL:10:LEU:HB3	17:CQ:32:TYR:CE1	2.47	0.50
23:D1:67:ILE:H	23:D1:67:ILE:HD12	1.76	0.50
24:D2:34:GLU:O	24:D2:34:GLU:HG2	2.11	0.50
28:D6:10:LEU:N	28:D6:10:LEU:HD22	2.25	0.50
30:D8:35:GLN:HE21	30:D8:36:LYS:HG3	1.75	0.50
31:DA:374:A:H2'	31:DA:375:C:H5'	1.92	0.50
31:DA:675:A:C8	31:DA:804:A:C6	3.00	0.50
31:DA:945:A:C8	31:DA:945:A:O2'	2.53	0.50
31:DA:1711:C:H2'	31:DA:1712:C:C6	2.47	0.50
31:DA:1784:A:H4'	31:DA:1785:A:O5'	2.12	0.50
31:DA:1843:C:H2'	31:DA:1844:C:H6	1.76	0.50
31:DA:1952:A:C6	31:DA:1953:A:N1	2.80	0.50
31:DA:2681:C:C5	31:DA:2725:A:N6	2.61	0.50
34:DE:59:VAL:CG2	34:DE:63:LEU:HA	2.42	0.50
36:DG:139:LEU:C	36:DG:141:PHE:H	2.19	0.50
39:DN:35:ARG:HB2	39:DN:42:TRP:CZ3	2.46	0.50
41:DP:26:GLY:HA2	41:DP:30:THR:HG23	1.92	0.50
44:DS:35:ILE:H	44:DS:53:SER:CB	2.24	0.50
44:DS:90:GLY:C	44:DS:92:TYR:H	2.19	0.50
47:DV:15:GLU:HB3	47:DV:16:PRO:CD	2.35	0.50
47:DV:89:GLN:OE1	47:DV:91:TYR:HD1	1.95	0.50
48:DW:17:VAL:HG11	48:DW:103:ILE:HD13	1.94	0.50
48:DW:70:TYR:N	48:DW:70:TYR:CD2	2.79	0.50
48:DW:73:ALA:O	48:DW:106:ILE:HG12	2.12	0.50
50:DY:7:VAL:HB	50:DY:8:LYS:HD2	1.92	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:254:G:O2'	1:AA:255:G:H5'	2.11	0.50
1:AA:304:U:H2'	1:AA:305:G:C8	2.47	0.50
1:AA:356:A:H1'	1:AA:368:U:O2'	2.12	0.50
1:AA:538:G:C2	1:AA:539:A:C4	3.00	0.50
1:AA:658:G:H2'	1:AA:659:U:H6	1.77	0.50
1:AA:682:G:C4	1:AA:683:G:C8	2.99	0.50
1:AA:724:G:H2'	1:AA:725:G:H8	1.76	0.50
1:AA:1074:G:N3	1:AA:1102:A:C2	2.80	0.50
1:AA:1080:A:H5'	5:AE:14:ARG:NH2	2.26	0.50
1:AA:1168:A:C6	1:AA:1169:A:C6	3.00	0.50
1:AA:1238:A:H62	1:AA:1299:A:H62	1.58	0.50
2:AB:187:LEU:HD23	2:AB:201:ILE:CG2	2.35	0.50
3:AC:188:LEU:O	3:AC:189:ALA:HB2	2.11	0.50
12:AL:102:ARG:CG	12:AL:102:ARG:NH1	2.56	0.50
17:AQ:86:GLU:O	17:AQ:90:ILE:HG12	2.12	0.50
20:AT:73:HIS:O	20:AT:76:ALA:HB3	2.11	0.50
22:B0:68:GLU:HG3	22:B0:80:HIS:HB2	1.94	0.50
23:B1:9:GLY:O	23:B1:10:LYS:HE2	2.11	0.50
28:B6:12:GLU:HB3	28:B6:23:THR:CG2	2.42	0.50
31:BA:107:C:N3	31:BA:108:U:C5	2.80	0.50
31:BA:271(K):U:H2'	31:BA:271(M):G:N2	2.27	0.50
31:BA:344:G:O2'	31:BA:345:A:H5'	2.11	0.50
31:BA:542:C:N4	31:BA:543:C:H42	2.08	0.50
31:BA:661:C:O3'	41:BP:18:ARG:HA	2.12	0.50
31:BA:997:G:O2'	31:BA:998:C:H5'	2.12	0.50
31:BA:1106:A:H2'	31:BA:1107:G:O5'	2.11	0.50
31:BA:1179:C:C2'	31:BA:1180:C:H5"	2.42	0.50
31:BA:1210:A:C8	31:BA:1210:A:H5'	2.41	0.50
31:BA:1531:C:H3'	31:BA:1532:C:C4'	2.41	0.50
31:BA:1885:A:H2'	31:BA:1886:C:O4'	2.12	0.50
31:BA:2311:A:O2'	31:BA:2312:U:O4'	2.26	0.50
31:BA:2317:C:C3'	31:BA:2318:G:H5'	2.39	0.50
31:BA:2445:G:OP1	35:BF:74:ARG:NH2	2.37	0.50
31:BA:2689:U:P	31:BA:2719:G:H22	2.34	0.50
32:BB:33:G:C2'	32:BB:34:U:H5'	2.41	0.50
33:BD:27:THR:O	33:BD:28:GLU:HB2	2.12	0.50
33:BD:75:ILE:HG21	33:BD:99:ASP:HB2	1.94	0.50
33:BD:205:VAL:HG12	33:BD:205:VAL:O	2.11	0.50
34:BE:95:ILE:CD1	34:BE:95:ILE:H	2.24	0.50
36:BG:47:LYS:CG	36:BG:82:LEU:HG	2.37	0.50
36:BG:64:THR:HG23	36:BG:65:GLY:H	1.76	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BH:85:LYS:HZ1	37:BH:145:ALA:HA	1.76	0.50
38:BI:12:LEU:O	38:BI:12:LEU:HG	2.12	0.50
45:BT:78:LEU:O	45:BT:79:HIS:ND1	2.44	0.50
1:CA:9:G:OP1	5:CE:122:GLU:HG3	2.11	0.50
1:CA:604:G:C5	1:CA:605:U:C5	3.00	0.50
1:CA:683:G:C2	1:CA:684:A:C4	3.00	0.50
1:CA:770:C:C2'	1:CA:771:G:H5'	2.41	0.50
1:CA:939:G:C6	1:CA:940:C:N4	2.79	0.50
1:CA:1076:C:C2	1:CA:1082:G:C2	3.00	0.50
1:CA:1203:C:H2'	1:CA:1204:A:O4'	2.11	0.50
1:CA:1315:U:H2'	1:CA:1316:G:O4'	2.12	0.50
11:CK:111:ASP:CA	18:CR:84:LYS:HG3	2.37	0.50
12:CL:6:THR:H	12:CL:9:GLN:NE2	2.08	0.50
27:D5:56:LYS:O	27:D5:57:VAL:O	2.30	0.50
31:DA:485:C:H2'	31:DA:486:C:H6	1.77	0.50
31:DA:1142(A):A:C4	31:DA:1144:G:C8	3.00	0.50
31:DA:1550:C:H2'	31:DA:1551:C:H6	1.76	0.50
31:DA:1718:G:N2	31:DA:1719:G:C4	2.80	0.50
31:DA:1719:G:H2'	31:DA:1720:U:C5'	2.42	0.50
31:DA:2280:G:H2'	31:DA:2281:C:H5'	1.94	0.50
31:DA:2531:A:C2	31:DA:2658:C:O2	2.61	0.50
31:DA:2712:U:HO2'	31:DA:2712(A):A:P	2.33	0.50
31:DA:2803:C:H2'	31:DA:2804:C:O4'	2.11	0.50
31:DA:2859:G:O2'	31:DA:2860:A:P	2.69	0.50
33:DD:36:PRO:HG3	33:DD:61:LEU:HG	1.94	0.50
37:DH:41:MET:CG	37:DH:54:ARG:HA	2.42	0.50
37:DH:54:ARG:CG	37:DH:65:HIS:HD2	2.25	0.50
39:DN:90:MET:O	39:DN:93:THR:O	2.30	0.50
43:DR:51:LEU:HD22	43:DR:70:LEU:HD21	1.94	0.50
45:DT:106:SER:O	45:DT:107:ASP:CG	2.55	0.50
47:DV:82:ARG:CG	47:DV:82:ARG:NH1	2.48	0.50
50:DY:37:VAL:HG23	50:DY:38:ILE:H	1.75	0.50
50:DY:88:LYS:NZ	50:DY:93:GLY:HA3	2.26	0.50
1:AA:155:C:H2'	1:AA:156:G:H8	1.76	0.50
1:AA:458:C:H2'	1:AA:460:G:C8	2.47	0.50
1:AA:512:U:H2'	1:AA:513:C:H6	1.76	0.50
1:AA:1215:G:C6	1:AA:1216:G:C5	2.99	0.50
1:AA:1505:G:C4'	1:AA:1506:U:H5"	2.40	0.50
2:AB:92:TYR:CE2	2:AB:151:GLY:HA3	2.47	0.50
2:AB:180:LEU:O	2:AB:181:PHE:HB2	2.10	0.50
4:AD:4:TYR:C	4:AD:4:TYR:CD1	2.87	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:155:LEU:O	4:AD:159:ARG:HG2	2.12	0.50
4:AD:170:VAL:HG22	4:AD:171:GLY:H	1.77	0.50
6:AF:96:PRO:HB3	18:AR:30:ASP:CG	2.37	0.50
9:AI:79:LEU:HD11	9:AI:83:ARG:CZ	2.41	0.50
12:AL:27:LEU:HG	12:AL:62:SER:CB	2.42	0.50
18:AR:53:ARG:C	18:AR:55:ARG:H	2.20	0.50
31:BA:196:A:C4	31:BA:805:G:C6	3.00	0.50
31:BA:817:C:H2'	31:BA:818:G:O4'	2.12	0.50
31:BA:1173:G:H5'	31:BA:1174:A:OP2	2.12	0.50
31:BA:1438:U:O2'	31:BA:1439:A:H5'	2.12	0.50
31:BA:2472:G:H5"	31:BA:2472:G:C8	2.43	0.50
31:BA:2578:G:OP2	31:BA:2578:G:H4'	2.12	0.50
31:BA:2759:G:H2'	31:BA:2760:C:O5'	2.12	0.50
31:BA:2846:G:H2'	31:BA:2847:U:O4'	2.12	0.50
38:BI:69:LYS:HG3	38:BI:135:GLU:O	2.12	0.50
38:BI:76:THR:HG22	38:BI:139:GLN:HB3	1.94	0.50
39:BN:78:TYR:CD1	39:BN:79:PRO:CG	2.95	0.50
45:BT:32:TYR:CB	45:BT:81:PRO:HB2	2.41	0.50
46:BU:69:CYS:HB3	46:BU:106:PHE:CE2	2.47	0.50
47:BV:70:ILE:CB	47:BV:90:PRO:HB2	2.41	0.50
49:BX:53:LYS:HE3	49:BX:55:ASN:ND2	2.22	0.50
1:CA:286:G:C5	1:CA:287:U:C5	3.00	0.50
1:CA:342:C:O2'	1:CA:343:U:H5'	2.12	0.50
1:CA:407:G:H5'	4:CD:3:ARG:HH12	1.77	0.50
1:CA:1310:G:N2	1:CA:1328:C:C2	2.80	0.50
1:CA:1481:U:H2'	1:CA:1482:G:H8	1.75	0.50
2:CB:91:PRO:HG3	2:CB:154:LEU:CB	2.42	0.50
2:CB:97:TRP:CZ2	2:CB:102:LEU:HD13	2.47	0.50
4:CD:206:PHE:CD2	4:CD:207:TYR:CE2	2.99	0.50
22:D0:53:MET:HA	22:D0:58:THR:O	2.12	0.50
24:D2:37:PHE:O	24:D2:37:PHE:CD2	2.65	0.50
24:D2:51:ARG:O	24:D2:51:ARG:HD3	2.12	0.50
30:D8:32:LEU:CG	30:D8:34:TRP:HE3	2.22	0.50
31:DA:109:G:H2'	31:DA:110:G:O4'	2.12	0.50
31:DA:271(Q):G:OP1	38:DI:42:SER:OG	2.30	0.50
31:DA:737:C:C2'	31:DA:738:G:O5'	2.60	0.50
31:DA:1259:G:H2'	31:DA:1260:G:H8	1.76	0.50
31:DA:1497:U:H5"	31:DA:1498:C:C5	2.45	0.50
31:DA:1548:C:H2'	31:DA:1549:C:H6	1.76	0.50
31:DA:1771:C:C1'	31:DA:1786:A:C8	2.94	0.50
31:DA:1997:G:O2'	31:DA:1998:G:H5'	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2648:C:H2'	31:DA:2649:U:C6	2.47	0.50
33:DD:70:TRP:CD1	33:DD:70:TRP:C	2.89	0.50
35:DF:132:VAL:C	35:DF:134:GLY:H	2.20	0.50
41:DP:115:LEU:HA	41:DP:134:ALA:CB	2.35	0.50
42:DQ:78:PRO:C	42:DQ:79:LEU:HG	2.36	0.50
44:DS:97:ARG:HE	44:DS:98:VAL:HA	1.75	0.50
45:DT:32:TYR:CD2	45:DT:81:PRO:O	2.64	0.50
45:DT:33:LYS:NZ	45:DT:33:LYS:HA	2.26	0.50
50:DY:71:LYS:HB2	50:DY:71:LYS:HZ2	1.74	0.50
51:DZ:166:SER:OG	51:DZ:167:PRO:CA	2.57	0.50
1:AA:97:G:O2'	1:AA:98:G:O5'	2.28	0.49
1:AA:191:G:N3	20:AT:103:GLY:O	2.45	0.49
1:AA:355:C:N3	1:AA:356:A:N7	2.59	0.49
1:AA:380:G:C2	1:AA:384:G:C6	3.00	0.49
1:AA:1118:C:C1'	1:AA:1179:A:C4	2.94	0.49
1:AA:1158:C:H42	1:AA:1181:G:H22	1.59	0.49
1:AA:1226:C:N4	13:AM:104:ARG:HD2	2.27	0.49
3:AC:14:ILE:HG23	3:AC:15:THR:N	2.26	0.49
3:AC:189:ALA:HB3	3:AC:196:LEU:HB2	1.94	0.49
5:AE:69:VAL:HG12	5:AE:71:LEU:HD23	1.94	0.49
6:AF:19:LEU:HD21	6:AF:59:TYR:CE2	2.47	0.49
12:AL:87:GLY:H	12:AL:99:HIS:H	1.60	0.49
14:AN:54:PRO:O	14:AN:56:VAL:HG23	2.11	0.49
16:AP:39:TYR:CD2	16:AP:73:LEU:CD1	2.93	0.49
27:B5:36:CYS:CB	27:B5:49:CYS:SG	3.00	0.49
28:B6:46:HIS:ND1	31:BA:2371:G:O2'	2.42	0.49
30:B8:35:GLN:HE21	30:B8:36:LYS:CG	2.25	0.49
31:BA:128:C:H2'	31:BA:129:C:O4'	2.12	0.49
31:BA:374:A:C2	31:BA:401:A:C4	3.00	0.49
31:BA:1131:G:OP1	39:BN:80:GLY:HA2	2.12	0.49
31:BA:1142(A):A:C4	31:BA:1144:G:C8	3.00	0.49
31:BA:1303:G:H1'	31:BA:1641:A:N1	2.27	0.49
31:BA:1527:G:C5'	31:BA:1528:A:OP1	2.60	0.49
31:BA:2250:G:C4	42:BQ:82:ARG:HD3	2.47	0.49
31:BA:2531:A:C2	31:BA:2658:C:O2	2.60	0.49
31:BA:2563:U:H4'	40:BO:28:SER:HA	1.93	0.49
31:BA:2580:U:H4'	34:BE:130:GLY:CA	2.41	0.49
31:BA:2631:G:C6	31:BA:2632:A:N7	2.80	0.49
31:BA:2762:G:C2'	31:BA:2763:G:H5'	2.42	0.49
35:BF:32:LEU:CD1	35:BF:105:VAL:HG13	2.39	0.49
36:BG:61:ALA:HA	36:BG:64:THR:HG22	1.93	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:139:LEU:C	36:BG:141:PHE:H	2.20	0.49
37:BH:41:MET:CG	37:BH:54:ARG:HA	2.42	0.49
37:BH:66:GLY:CA	37:BH:69:ARG:HB2	2.40	0.49
39:BN:2:LYS:HD3	46:BU:95:LEU:HD21	1.94	0.49
42:BQ:77:LYS:HE3	42:BQ:82:ARG:HA	1.94	0.49
50:BY:28:LYS:HB2	50:BY:37:VAL:C	2.36	0.49
1:CA:192:U:H4'	20:CT:103:GLY:HA2	1.92	0.49
1:CA:380:G:C2	1:CA:384:G:C6	3.00	0.49
1:CA:414:A:C5	1:CA:431:A:C2	3.00	0.49
1:CA:473:G:C2	1:CA:474:G:C8	3.00	0.49
1:CA:510:A:H5"	1:CA:511:C:OP2	2.12	0.49
1:CA:687:A:C2	1:CA:704:A:C6	3.00	0.49
1:CA:736:C:H2'	1:CA:737:A:C8	2.47	0.49
1:CA:1058:G:C6	1:CA:1059:C:C4	3.00	0.49
1:CA:1074:G:O2'	1:CA:1101:A:N1	2.36	0.49
3:CC:114:PRO:HG3	3:CC:185:GLY:HA3	1.94	0.49
4:CD:2:GLY:O	4:CD:4:TYR:N	2.45	0.49
4:CD:73:ARG:HG3	4:CD:77:ASN:HD21	1.76	0.49
5:CE:28:PHE:O	5:CE:47:LYS:HA	2.11	0.49
5:CE:51:VAL:HB	5:CE:52:PRO:CD	2.40	0.49
5:CE:51:VAL:O	5:CE:55:VAL:HG23	2.12	0.49
9:CI:118:LYS:NZ	9:CI:118:LYS:CB	2.75	0.49
13:CM:83:ASP:CG	13:CM:84:ILE:H	2.18	0.49
13:CM:91:ARG:HB2	13:CM:98:VAL:HG21	1.94	0.49
21:CU:2:GLY:C	21:CU:4:GLY:H	2.20	0.49
23:D1:65:SER:O	23:D1:66:HIS:CD2	2.65	0.49
24:D2:45:SER:O	24:D2:48:HIS:HB3	2.12	0.49
30:D8:2:PRO:N	31:DA:591:C:O2	2.45	0.49
30:D8:60:LEU:C	30:D8:63:PRO:HD2	2.36	0.49
31:DA:188:G:H2'	31:DA:189:G:H5'	1.93	0.49
31:DA:243:U:O2'	31:DA:244:A:H5'	2.12	0.49
31:DA:528:A:H2	31:DA:2043:C:C5'	2.25	0.49
31:DA:1204:A:N1	31:DA:1241:A:H2	2.10	0.49
31:DA:2483:C:O2	31:DA:2483:C:H2'	2.11	0.49
32:DB:33:G:N2	32:DB:50:G:C4	2.81	0.49
33:DD:35:LYS:HG2	33:DD:64:ILE:CG2	2.42	0.49
33:DD:70:TRP:HZ3	33:DD:146:GLU:OE2	1.95	0.49
35:DF:202:PHE:C	35:DF:204:ASN:N	2.70	0.49
40:DO:9:GLU:O	40:DO:83:ALA:HA	2.12	0.49
41:DP:96:THR:HG22	41:DP:126:VAL:HG23	1.94	0.49
42:DQ:78:PRO:O	42:DQ:79:LEU:HB2	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DQ:141:GLN:C	51:DZ:70:LEU:HD13	2.37	0.49
42:DQ:141:GLN:CG	51:DZ:72:ARG:HA	2.42	0.49
44:DS:34:HIS:CE1	44:DS:54:LEU:CB	2.82	0.49
45:DT:106:SER:HA	45:DT:110:ILE:HG12	1.93	0.49
51:DZ:144:LEU:HD11	51:DZ:150:LEU:CD1	2.42	0.49
1:AA:63:C:O2'	1:AA:380:G:H4'	2.11	0.49
1:AA:189(C):C:H2'	1:AA:189(D):C:H5'	1.92	0.49
1:AA:395:C:H2'	1:AA:395:C:O2	2.12	0.49
1:AA:427:U:C4	1:AA:428:G:C6	3.00	0.49
1:AA:445:G:N3	1:AA:446:G:C8	2.80	0.49
1:AA:477:A:O2'	1:AA:479:C:H5'	2.12	0.49
1:AA:625:G:H4'	16:AP:16:HIS:CD2	2.47	0.49
1:AA:669:U:O2'	1:AA:670:G:H5'	2.13	0.49
1:AA:973:G:C3'	1:AA:974:A:H5"	2.38	0.49
1:AA:1207:G:H2'	1:AA:1208:C:C6	2.47	0.49
1:AA:1338:G:H2'	1:AA:1339:A:O4'	2.12	0.49
4:AD:73:ARG:HG3	4:AD:77:ASN:HD21	1.78	0.49
5:AE:7:GLU:HG2	5:AE:112:LEU:HD22	1.94	0.49
6:AF:61:LEU:HB3	6:AF:63:TYR:HE2	1.77	0.49
6:AF:96:PRO:HB3	18:AR:30:ASP:OD2	2.11	0.49
9:AI:112:LYS:HA	9:AI:119:ALA:HB2	1.93	0.49
11:AK:15:ALA:HA	11:AK:77:MET:HA	1.94	0.49
13:AM:91:ARG:HB2	13:AM:98:VAL:CG2	2.42	0.49
14:AN:3:ARG:O	14:AN:7:ILE:HG23	2.12	0.49
15:AO:36:ILE:HD12	15:AO:63:ARG:HE	1.77	0.49
20:AT:56:MET:HG3	20:AT:88:VAL:HG21	1.94	0.49
23:B1:11:ARG:CB	23:B1:12:PRO:CD	2.90	0.49
30:B8:22:VAL:HB	30:B8:53:PRO:CB	2.42	0.49
31:BA:524:U:H2'	31:BA:525:U:C6	2.47	0.49
31:BA:945:A:H5"	31:BA:946:G:P	2.52	0.49
31:BA:1678:G:H21	31:BA:1989:G:N2	2.06	0.49
31:BA:1722:A:N1	31:BA:1740:G:H2'	2.27	0.49
33:BD:24:ILE:HD11	33:BD:84:TYR:N	2.27	0.49
33:BD:83:GLU:OE1	33:BD:104:TYR:CE2	2.65	0.49
34:BE:63:LEU:O	34:BE:64:LYS:C	2.53	0.49
34:BE:75:VAL:O	34:BE:77:ILE:N	2.45	0.49
35:BF:9:ILE:HG12	35:BF:14:PRO:HA	1.94	0.49
35:BF:21:ALA:C	35:BF:23:ASP:H	2.18	0.49
36:BG:128:ARG:O	36:BG:129:GLY:C	2.55	0.49
39:BN:131:GLN:OE1	39:BN:134:ARG:HB3	2.12	0.49
42:BQ:63:LYS:HG2	42:BQ:65:PHE:CE2	2.47	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BS:105:ALA:C	44:BS:107:GLU:H	2.20	0.49
46:BU:59:ARG:O	46:BU:60:LEU:C	2.55	0.49
49:BX:82:GLN:HB3	49:BX:85:PRO:CG	2.37	0.49
1:CA:19:C:O2'	1:CA:20:U:H5'	2.12	0.49
1:CA:102:G:C6	1:CA:103:C:C4	3.00	0.49
1:CA:105:G:H2'	1:CA:106:C:H6	1.76	0.49
1:CA:119:A:N7	1:CA:288:A:C2	2.80	0.49
1:CA:532:A:H61	3:CC:193:TYR:HB3	1.76	0.49
1:CA:533:A:C4'	1:CA:534:U:OP1	2.59	0.49
1:CA:683:G:C6	1:CA:684:A:C6	3.00	0.49
1:CA:767:A:H2'	1:CA:768:A:O4'	2.12	0.49
1:CA:781:A:C2'	1:CA:782:A:H5'	2.42	0.49
1:CA:791:G:C5	1:CA:792:A:N7	2.80	0.49
1:CA:1290:G:N3	1:CA:1290:G:H2'	2.27	0.49
1:CA:1352:C:H42	1:CA:1370:G:H1	1.60	0.49
2:CB:32:ILE:HA	2:CB:42:ILE:HA	1.93	0.49
2:CB:97:TRP:HH2	2:CB:176:GLU:CG	2.24	0.49
2:CB:194:PRO:O	2:CB:195:ASP:C	2.55	0.49
6:CF:61:LEU:HB3	6:CF:63:TYR:CE2	2.47	0.49
6:CF:61:LEU:HD23	6:CF:63:TYR:OH	2.11	0.49
7:CG:70:LYS:HB3	7:CG:96:GLN:OE1	2.12	0.49
9:CI:15:ALA:HA	9:CI:65:VAL:HA	1.93	0.49
9:CI:61:ALA:HB1	9:CI:63:ILE:HD11	1.94	0.49
20:CT:87:LYS:HE3	20:CT:91:LEU:HD11	1.92	0.49
23:D1:16:ASN:ND2	23:D1:16:ASN:C	2.70	0.49
31:DA:272(B):G:O2'	31:DA:272(C):G:H5'	2.12	0.49
31:DA:482:A:H5"	31:DA:483:A:OP1	2.13	0.49
31:DA:671:C:O2'	31:DA:672:C:H5'	2.12	0.49
31:DA:1495:A:H2'	31:DA:1496:A:N3	2.27	0.49
31:DA:1711:C:H2'	31:DA:1712:C:H6	1.77	0.49
31:DA:2293:C:H2'	31:DA:2294:C:O4'	2.12	0.49
31:DA:2689:U:P	31:DA:2719:G:H22	2.35	0.49
31:DA:2887:U:H2'	31:DA:2888:C:H6	1.77	0.49
32:DB:33:G:C2	32:DB:50:G:C2	3.00	0.49
33:DD:118:VAL:HG22	33:DD:119:ALA:H	1.75	0.49
33:DD:186:HIS:CD2	33:DD:187:GLY:N	2.80	0.49
33:DD:206:LEU:HD22	33:DD:211:ARG:CG	2.42	0.49
38:DI:31:LEU:N	38:DI:31:LEU:HD22	2.27	0.49
38:DI:78:THR:OG1	38:DI:141:LYS:HB2	2.12	0.49
39:DN:41:ASP:O	39:DN:42:TRP:C	2.56	0.49
39:DN:104:LYS:HB2	39:DN:117:PHE:CE1	2.47	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DQ:85:LYS:HG3	42:DQ:86:GLY:N	2.27	0.49
45:DT:78:LEU:O	45:DT:78:LEU:CD2	2.60	0.49
47:DV:32:THR:HG22	47:DV:33:VAL:H	1.78	0.49
1:AA:439:A:C4	1:AA:496:A:C2	3.01	0.49
1:AA:564:C:H2'	1:AA:565:U:H5'	1.94	0.49
1:AA:642:A:C5	8:AH:115:SER:HA	2.46	0.49
1:AA:671:G:C4	1:AA:672:U:C5	3.00	0.49
2:AB:163:PHE:HA	2:AB:185:ILE:O	2.12	0.49
4:AD:33:MET:CE	4:AD:37:PRO:HA	2.32	0.49
4:AD:36:ARG:HB3	4:AD:38:TYR:CE2	2.47	0.49
5:AE:87:SER:HB3	5:AE:125:SER:O	2.12	0.49
6:AF:44:GLY:HA2	6:AF:59:TYR:CZ	2.47	0.49
8:AH:63:LEU:N	8:AH:63:LEU:HD22	2.27	0.49
9:AI:40:LEU:HD11	9:AI:70:LYS:HG3	1.95	0.49
12:AL:84:LEU:HD22	12:AL:85:ILE:H	1.77	0.49
17:AQ:24:GLU:HA	17:AQ:39:SER:HB3	1.95	0.49
25:B3:17:LYS:O	25:B3:20:LYS:N	2.45	0.49
31:BA:102:G:C8	31:BA:102:G:C5'	2.85	0.49
31:BA:445:C:OP1	46:BU:2:PRO:HA	2.11	0.49
31:BA:795:C:H2'	31:BA:796:C:C6	2.46	0.49
31:BA:1024:G:C3'	31:BA:1025:G:H5"	2.36	0.49
31:BA:1397:U:O2'	31:BA:1398:C:P	2.71	0.49
31:BA:1456:G:C2'	31:BA:1457:A:H5'	2.42	0.49
31:BA:1464:C:O2'	31:BA:1528:A:H1'	2.12	0.49
31:BA:2733:A:C2'	31:BA:2734:A:H5'	2.43	0.49
31:BA:2889:C:C2'	31:BA:2891:G:H5'	2.42	0.49
32:BB:66:A:C6	32:BB:109:C:C6	3.00	0.49
33:BD:126:GLN:O	33:BD:193:VAL:CG1	2.60	0.49
36:BG:107:LEU:HD11	36:BG:178:PHE:CE1	2.47	0.49
37:BH:83:TYR:HA	37:BH:135:GLY:O	2.12	0.49
37:BH:91:GLY:C	37:BH:92:ILE:CG1	2.86	0.49
41:BP:146:VAL:HG22	41:BP:147:LEU:N	2.15	0.49
44:BS:93:LYS:HE3	44:BS:94:TYR:N	2.27	0.49
45:BT:27:THR:O	45:BT:28:VAL:CG2	2.54	0.49
46:BU:25:TRP:CD1	46:BU:26:GLY:N	2.79	0.49
1:CA:131:C:H2'	1:CA:132:C:C6	2.47	0.49
1:CA:232:G:H1'	1:CA:262:A:N1	2.26	0.49
1:CA:590:C:H2'	1:CA:591:U:C6	2.47	0.49
1:CA:684:A:H2'	1:CA:685:G:C8	2.47	0.49
1:CA:724:G:H2'	1:CA:725:G:H8	1.78	0.49
1:CA:874:G:C6	1:CA:875:C:C4	3.01	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1077:G:C2	1:CA:1081:G:C6	3.00	0.49
1:CA:1207:G:H2'	1:CA:1208:C:C6	2.47	0.49
1:CA:1460:A:H2'	1:CA:1461:G:O4'	2.11	0.49
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.47	0.49
2:CB:92:TYR:CE2	2:CB:151:GLY:HA3	2.47	0.49
3:CC:188:LEU:O	3:CC:189:ALA:HB2	2.12	0.49
12:CL:102:ARG:HD2	12:CL:108:ALA:O	2.12	0.49
13:CM:81:LEU:HD11	13:CM:88:ARG:HH12	1.78	0.49
14:CN:12:ARG:C	14:CN:14:PRO:HD3	2.38	0.49
25:D3:49:LYS:HE2	31:DA:850:C:O3'	2.13	0.49
31:DA:29:U:H2'	31:DA:30:G:C8	2.48	0.49
31:DA:271(H):G:O2'	31:DA:271(I):G:OP2	2.25	0.49
31:DA:856:C:H3'	31:DA:857:C:C6	2.47	0.49
31:DA:945:A:C6	31:DA:2448:A:C4	3.00	0.49
31:DA:1322:A:C5	31:DA:1323:U:C5	3.00	0.49
31:DA:1439:A:C2	31:DA:1553:A:C4	3.00	0.49
31:DA:1741:A:C5	31:DA:1742:G:C2	2.99	0.49
31:DA:1748:G:O2'	31:DA:1749:A:H5'	2.12	0.49
33:DD:133:LEU:O	33:DD:134:ARG:C	2.56	0.49
34:DE:13:ARG:NH2	45:DT:77:PRO:HG3	2.28	0.49
35:DF:65:TRP:CZ3	35:DF:72:ARG:HB3	2.47	0.49
35:DF:83:PHE:C	35:DF:84:VAL:HG23	2.37	0.49
38:DI:37:VAL:CG1	38:DI:38:LEU:N	2.75	0.49
39:DN:75:TYR:N	39:DN:75:TYR:CD1	2.80	0.49
41:DP:63:PRO:C	41:DP:65:ARG:N	2.69	0.49
42:DQ:72:LYS:HB3	42:DQ:94:VAL:HG22	1.94	0.49
43:DR:9:LYS:C	43:DR:10:LEU:HG	2.37	0.49
44:DS:17:ARG:HE	44:DS:89:ARG:HH21	1.59	0.49
47:DV:90:PRO:CG	47:DV:91:TYR:N	2.69	0.49
48:DW:26:GLY:H	48:DW:71:VAL:HB	1.77	0.49
48:DW:88:ARG:HB2	48:DW:92:ARG:HB3	1.94	0.49
49:DX:47:PHE:O	49:DX:48:LYS:C	2.55	0.49
51:DZ:127:LYS:HB3	51:DZ:162:GLU:HG3	1.94	0.49
1:AA:457:C:H6	1:AA:457:C:O5'	1.95	0.49
1:AA:675:A:H2'	1:AA:676:A:C8	2.47	0.49
1:AA:1189:C:OP1	3:AC:5:ILE:HG21	2.11	0.49
1:AA:1225:A:H1'	19:AS:78:ARG:HD3	1.94	0.49
1:AA:1423:G:H5'	40:BO:49:ARG:HH22	1.76	0.49
1:AA:1433:A:C6	1:AA:1468:A:C4	3.01	0.49
2:AB:84:GLU:O	2:AB:219:VAL:HG11	2.11	0.49
10:AJ:4:ILE:HG12	10:AJ:100:THR:HG22	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:61:GLU:OE1	14:AN:58:LYS:HE2	2.12	0.49
10:AJ:80:LYS:HZ3	10:AJ:80:LYS:HB2	1.77	0.49
24:B2:12:GLU:C	24:B2:14:ARG:N	2.69	0.49
24:B2:14:ARG:CD	24:B2:57:ILE:HB	2.43	0.49
27:B5:48:GLU:C	27:B5:50:GLY:H	2.19	0.49
28:B6:12:GLU:CB	28:B6:23:THR:HG22	2.41	0.49
31:BA:18:C:O2'	31:BA:19:C:H5'	2.11	0.49
31:BA:94:C:O2	31:BA:94:C:H2'	2.11	0.49
31:BA:384:U:O2'	31:BA:385:C:H5'	2.12	0.49
31:BA:482:A:H5"	31:BA:483:A:OP1	2.12	0.49
31:BA:671:C:O2'	31:BA:672:C:H5'	2.12	0.49
31:BA:1176:G:C4'	31:BA:1177:A:OP1	2.60	0.49
31:BA:1404:C:O2	31:BA:1404:C:H2'	2.11	0.49
31:BA:1599:C:O2	31:BA:1599:C:H2'	2.12	0.49
31:BA:1935:G:H1'	31:BA:1964:G:N2	2.28	0.49
31:BA:2818:G:C2'	31:BA:2819:G:H5'	2.41	0.49
33:BD:12:SER:HB2	33:BD:208:LYS:HB3	1.93	0.49
33:BD:31:LYS:O	33:BD:35:LYS:O	2.29	0.49
34:BE:77:ILE:HG21	34:BE:79:ARG:HH21	1.77	0.49
36:BG:16:ARG:HH12	36:BG:31:VAL:HG21	1.76	0.49
38:BI:31:LEU:N	38:BI:31:LEU:HD22	2.27	0.49
38:BI:92:VAL:O	38:BI:92:VAL:HG22	2.11	0.49
42:BQ:88:GLY:O	42:BQ:90:VAL:HG23	2.12	0.49
44:BS:90:GLY:C	44:BS:92:TYR:H	2.20	0.49
45:BT:33:LYS:NZ	45:BT:33:LYS:CA	2.76	0.49
45:BT:89:VAL:HG13	45:BT:121:ILE:HD11	1.94	0.49
46:BU:50:ARG:CZ	47:BV:75:PHE:CD2	2.94	0.49
47:BV:24:LYS:HE3	47:BV:68:LYS:HE3	1.94	0.49
47:BV:66:ARG:CD	47:BV:67:GLY:N	2.74	0.49
49:BX:37:THR:HG23	49:BX:54:VAL:HG21	1.95	0.49
49:BX:52:VAL:CG2	49:BX:82:GLN:HA	2.42	0.49
49:BX:54:VAL:C	49:BX:55:ASN:HD22	2.19	0.49
49:BX:77:LYS:HG2	49:BX:78:LYS:H	1.76	0.49
50:BY:87:LYS:O	50:BY:88:LYS:HB2	2.12	0.49
1:CA:52:G:O2'	1:CA:53:A:H5'	2.13	0.49
1:CA:642:A:C5	8:CH:115:SER:HA	2.47	0.49
1:CA:818:G:HO2'	1:CA:820:U:H6	1.59	0.49
1:CA:1067:A:H1'	1:CA:1068:G:C8	2.47	0.49
1:CA:1260:C:H4'	1:CA:1284:C:H5'	1.94	0.49
2:CB:188:ALA:HB1	2:CB:192:SER:CB	2.39	0.49
3:CC:73:PRO:HA	3:CC:76:VAL:CG1	2.41	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:96:PRO:HB3	18:CR:30:ASP:CG	2.37	0.49
10:CJ:4:ILE:HG12	10:CJ:100:THR:HG22	1.93	0.49
12:CL:89:ARG:HA	12:CL:97:ARG:HA	1.95	0.49
16:CP:75:ARG:C	16:CP:77:ALA:H	2.20	0.49
17:CQ:65:ILE:HD12	17:CQ:65:ILE:H	1.77	0.49
23:D1:40:ARG:NH2	31:DA:2082:A:H5'	2.27	0.49
26:D4:20:ASN:O	26:D4:24:THR:HA	2.12	0.49
31:DA:528:A:C2'	31:DA:529:A:H5'	2.42	0.49
31:DA:861:A:N3	32:DB:79:C:O2'	2.39	0.49
31:DA:934:G:H2'	31:DA:935:C:H6	1.76	0.49
31:DA:1279:G:H5'	43:DR:34:ILE:HD11	1.94	0.49
31:DA:1331:A:O2'	31:DA:1332:G:H8	1.95	0.49
31:DA:2884:U:H2'	31:DA:2885:C:C5'	2.43	0.49
33:DD:83:GLU:OE1	33:DD:104:TYR:HE2	1.94	0.49
33:DD:175:LEU:HD12	33:DD:185:VAL:HG21	1.93	0.49
35:DF:31:HIS:NE2	35:DF:35:GLU:OE1	2.45	0.49
36:DG:76:SER:CB	36:DG:84:LYS:H	2.26	0.49
37:DH:98:LEU:HD22	37:DH:125:VAL:HG23	1.95	0.49
37:DH:153:LYS:HG2	37:DH:154:PRO:N	2.27	0.49
39:DN:36:GLY:H	39:DN:42:TRP:HZ3	1.59	0.49
39:DN:65:LYS:HD3	39:DN:67:LEU:H	1.77	0.49
40:DO:12:ASP:C	40:DO:99:PHE:HE2	2.20	0.49
43:DR:3:HIS:O	43:DR:4:LEU:CB	2.60	0.49
44:DS:28:VAL:O	44:DS:29:PHE:CB	2.60	0.49
1:AA:66:G:O4'	1:AA:173:U:C4	2.66	0.49
1:AA:115:G:H4'	1:AA:116:A:O5'	2.11	0.49
1:AA:540:G:O2'	1:AA:541:G:H5'	2.12	0.49
1:AA:685:G:N2	1:AA:686:U:C4	2.81	0.49
1:AA:865:A:H2	1:AA:918:A:H4'	1.76	0.49
1:AA:1067:A:H4'	1:AA:1068:G:O5'	2.13	0.49
1:AA:1203:C:H2'	1:AA:1204:A:O4'	2.13	0.49
1:AA:1248:A:H2'	1:AA:1249:C:H5'	1.94	0.49
4:AD:78:LEU:O	4:AD:81:GLU:HB3	2.12	0.49
23:B1:10:LYS:CG	23:B1:11:ARG:N	2.75	0.49
27:B5:13:LYS:O	27:B5:14:ALA:C	2.55	0.49
28:B6:39:TYR:HD2	28:B6:49:HIS:CE1	2.31	0.49
29:B7:1:MET:O	29:B7:2:LYS:C	2.55	0.49
31:BA:375:C:H2'	31:BA:376:C:C6	2.47	0.49
31:BA:389:G:H1	41:BP:71:VAL:HG12	1.77	0.49
31:BA:775:G:C4	31:BA:794:G:C8	3.00	0.49
31:BA:1027:A:N6	31:BA:1126:A:C4	2.81	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1902:C:H2'	31:BA:1903:G:O5'	2.13	0.49
31:BA:2307:G:OP1	31:BA:2307:G:H4'	2.13	0.49
31:BA:2758:A:C3'	31:BA:2759:G:H5"	2.41	0.49
32:BB:86:G:H1	32:BB:91:C:N4	2.10	0.49
35:BF:129:PHE:CD2	35:BF:163:VAL:HG21	2.48	0.49
39:BN:45:ASN:HD22	39:BN:45:ASN:N	1.88	0.49
40:BO:29:ASN:N	40:BO:29:ASN:HD22	2.11	0.49
41:BP:64:LYS:C	41:BP:64:LYS:HD3	2.37	0.49
42:BQ:58:PHE:O	42:BQ:59:ARG:C	2.56	0.49
42:BQ:78:PRO:C	42:BQ:79:LEU:HG	2.34	0.49
42:BQ:109:VAL:CG1	42:BQ:110:THR:N	2.75	0.49
44:BS:83:LYS:CE	44:BS:105:ALA:HB2	2.42	0.49
51:BZ:144:LEU:HD11	51:BZ:150:LEU:CD1	2.43	0.49
1:CA:606:G:H5"	1:CA:607:A:H5'	1.95	0.49
1:CA:1189:C:OP1	3:CC:5:ILE:HG21	2.12	0.49
1:CA:1201:A:H5'	1:CA:1203:C:OP2	2.13	0.49
4:CD:150:GLU:CD	4:CD:150:GLU:H	2.20	0.49
12:CL:55:VAL:HG12	12:CL:69:TYR:HA	1.94	0.49
13:CM:91:ARG:HB2	13:CM:98:VAL:CG2	2.43	0.49
31:DA:128:C:H2'	31:DA:129:C:C6	2.46	0.49
31:DA:686:G:N2	31:DA:788:A:H61	2.11	0.49
31:DA:1141:U:H4'	31:DA:1142(A):A:O4'	2.13	0.49
31:DA:1205:U:H3'	31:DA:1206:G:H5'	1.94	0.49
31:DA:2427:C:H5"	31:DA:2428:G:OP1	2.13	0.49
31:DA:2846:G:H2'	31:DA:2847:U:O4'	2.12	0.49
32:DB:31:C:O2'	32:DB:32:C:H5'	2.13	0.49
33:DD:31:LYS:O	33:DD:35:LYS:O	2.31	0.49
33:DD:198:ASN:O	33:DD:198:ASN:ND2	2.45	0.49
40:DO:65:THR:CG2	40:DO:69:ILE:HD11	2.41	0.49
41:DP:51:PHE:CB	41:DP:52:GLU:HG2	2.39	0.49
41:DP:65:ARG:HB2	41:DP:65:ARG:NH1	2.27	0.49
41:DP:95:VAL:HA	41:DP:99:LEU:HD23	1.93	0.49
42:DQ:141:GLN:CG	51:DZ:72:ARG:HH11	2.21	0.49
48:DW:86:LEU:HD12	48:DW:87:PRO:N	2.28	0.49
51:DZ:67:LEU:HD12	51:DZ:67:LEU:N	2.28	0.49
1:AA:430:A:C2'	1:AA:431:A:H5'	2.43	0.49
1:AA:716:A:N3	11:AK:118:GLY:HA2	2.26	0.49
1:AA:986:A:H2'	1:AA:987:G:O4'	2.13	0.49
1:AA:1206:G:O4'	3:AC:194:GLY:HA2	2.13	0.49
9:AI:104:ARG:O	9:AI:104:ARG:HG2	2.13	0.49
9:AI:113:LYS:H	9:AI:119:ALA:HA	1.78	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B1:47:GLN:HB2	31:BA:397:G:H5"	1.92	0.49
24:B2:49:LYS:HD3	31:BA:76:C:H5"	1.94	0.49
25:B3:8:LEU:HD13	25:B3:31:LEU:HA	1.95	0.49
30:B8:61:LEU:C	30:B8:63:PRO:HD2	2.37	0.49
31:BA:154:G:H1	31:BA:172:C:H42	0.66	0.49
31:BA:814:C:N4	41:BP:27:HIS:NE2	2.61	0.49
31:BA:1109:C:C5	31:BA:1110:G:C4	3.01	0.49
31:BA:1213:A:H1'	31:BA:1238:G:N3	2.27	0.49
31:BA:1745(A):C:H6	31:BA:1745(A):C:H5"	1.77	0.49
31:BA:2484:G:C2	31:BA:2485:G:C8	3.01	0.49
31:BA:2564:A:C6	31:BA:2565:A:C6	3.01	0.49
31:BA:2579:C:H2'	31:BA:2580:U:O4'	2.12	0.49
33:BD:30:GLU:CD	33:BD:63:ARG:NE	2.69	0.49
33:BD:80:ALA:HB2	33:BD:96:HIS:CD2	2.48	0.49
35:BF:20:LEU:HD13	35:BF:203:GLN:CD	2.37	0.49
35:BF:164:ARG:HH11	35:BF:164:ARG:CG	2.18	0.49
37:BH:127:GLU:HB3	37:BH:128:PRO:HD2	1.94	0.49
38:BI:15:VAL:HG22	38:BI:16:GLY:N	2.27	0.49
42:BQ:68:ILE:HD13	42:BQ:103:MET:HE2	1.93	0.49
45:BT:28:VAL:HG11	45:BT:46:GLU:OE1	2.12	0.49
48:BW:92:ARG:HH11	48:BW:92:ARG:CG	2.14	0.49
1:CA:51:A:C6	1:CA:353:A:C2	3.01	0.49
1:CA:166:G:O2'	1:CA:167:G:H5'	2.13	0.49
1:CA:253:U:H2'	1:CA:254:G:H8	1.77	0.49
1:CA:309:G:H2'	1:CA:310:G:H8	1.77	0.49
1:CA:375:U:OP1	16:CP:69:THR:HG21	2.12	0.49
1:CA:723:U:H5"	1:CA:724:G:OP2	2.13	0.49
1:CA:778:G:H2'	1:CA:779:C:O5'	2.12	0.49
1:CA:874:G:H2'	1:CA:875:C:H6	1.78	0.49
1:CA:963:G:N3	10:CJ:55:LYS:NZ	2.50	0.49
1:CA:1015:A:N6	1:CA:1016:A:C6	2.81	0.49
2:CB:24:TRP:CH2	2:CB:26:PRO:HA	2.48	0.49
2:CB:189:ASP:OD2	2:CB:205:ASP:OD1	2.30	0.49
6:CF:40:VAL:HA	6:CF:62:TRP:O	2.12	0.49
6:CF:41:GLU:HB3	6:CF:43:LEU:CD1	2.42	0.49
9:CI:63:ILE:HD12	9:CI:63:ILE:N	2.27	0.49
9:CI:99:LEU:O	9:CI:100:GLY:C	2.55	0.49
12:CL:6:THR:OG1	12:CL:9:GLN:HG3	2.13	0.49
16:CP:48:TRP:CD1	16:CP:48:TRP:N	2.72	0.49
18:CR:47:THR:OG1	18:CR:49:LYS:HG3	2.13	0.49
23:D1:17:SER:C	23:D1:18:ILE:HD12	2.37	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:D1:19:GLN:OE1	23:D1:44:PRO:HB3	2.12	0.49
27:D5:48:GLU:C	27:D5:50:GLY:H	2.21	0.49
30:D8:4:MET:HE1	31:DA:593:G:H1'	1.95	0.49
30:D8:25:MET:HG3	41:DP:64:LYS:CB	2.31	0.49
31:DA:775:G:C4	31:DA:794:G:C8	3.01	0.49
31:DA:810:U:O2	41:DP:33:ARG:HD3	2.12	0.49
31:DA:1005:C:H2'	31:DA:1006:C:C6	2.48	0.49
31:DA:1022:G:C5	31:DA:1140:C:N4	2.81	0.49
31:DA:1338:G:N3	31:DA:1393:A:H2	2.11	0.49
31:DA:1659:U:C4	31:DA:1660:C:C5	3.01	0.49
31:DA:1799:G:H4'	31:DA:1800:C:O5'	2.11	0.49
31:DA:1810:A:H2'	31:DA:1811:G:C5'	2.43	0.49
31:DA:2074:U:H2'	31:DA:2075:U:C6	2.47	0.49
31:DA:2199:A:H5"	31:DA:2200:C:OP2	2.12	0.49
31:DA:2250:G:C4	42:DQ:82:ARG:HD3	2.48	0.49
33:DD:25:THR:CG2	33:DD:82:ILE:N	2.74	0.49
35:DF:89:VAL:CG1	35:DF:90:PHE:N	2.70	0.49
36:DG:71:THR:HB	36:DG:89:GLY:CA	2.43	0.49
38:DI:78:THR:HA	38:DI:141:LYS:O	2.13	0.49
39:DN:16:ILE:HD11	39:DN:26:LEU:HD11	1.94	0.49
39:DN:42:TRP:HA	39:DN:48:MET:CE	2.40	0.49
42:DQ:88:GLY:O	42:DQ:90:VAL:N	2.45	0.49
1:AA:349:A:O2'	1:AA:350:G:H5'	2.12	0.49
1:AA:437:U:H2'	1:AA:438:G:C8	2.47	0.49
1:AA:542:G:H2'	1:AA:543:C:H6	1.77	0.49
1:AA:604:G:C6	1:AA:605:U:C4	3.01	0.49
1:AA:624:C:H4'	16:AP:11:SER:H	1.77	0.49
1:AA:929:G:N2	1:AA:1388:C:N3	2.39	0.49
1:AA:1274:G:N2	1:AA:1275:A:H62	2.11	0.49
1:AA:1322:C:OP1	1:AA:1322:C:H6	1.96	0.49
4:AD:149:ALA:O	4:AD:150:GLU:C	2.54	0.49
5:AE:41:VAL:CG1	5:AE:113:ALA:HA	2.43	0.49
8:AH:63:LEU:HD22	8:AH:63:LEU:H	1.77	0.49
8:AH:86:ILE:HG21	8:AH:133:LEU:HD13	1.94	0.49
11:AK:65:ALA:O	11:AK:68:ALA:HB3	2.12	0.49
16:AP:57:ARG:CZ	16:AP:79:VAL:O	2.61	0.49
24:B2:53:LEU:C	24:B2:56:GLN:HE22	2.21	0.49
24:B2:55:ARG:NH1	31:BA:72:U:OP1	2.46	0.49
27:B5:36:CYS:C	27:B5:38:ALA:N	2.65	0.49
27:B5:50:GLY:HA3	27:B5:56:LYS:CG	2.43	0.49
27:B5:52:TYR:O	27:B5:53:ALA:C	2.55	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:86:C:H4'	31:BA:104:U:H1'	1.95	0.49
31:BA:185:U:H2'	31:BA:186:G:H8	1.78	0.49
31:BA:192:C:H2'	31:BA:193:U:H5'	1.95	0.49
31:BA:372:G:O2'	31:BA:373:U:P	2.71	0.49
31:BA:597:U:H2'	31:BA:598:G:C8	2.47	0.49
31:BA:634:C:H2'	31:BA:635:C:H6	1.76	0.49
31:BA:919:G:H5'	32:BB:81:G:H1'	1.95	0.49
31:BA:1157:G:C2'	31:BA:1158:C:H5'	2.42	0.49
31:BA:1179:C:C3'	31:BA:1180:C:H5"	2.42	0.49
31:BA:1528:A:O2'	31:BA:1528(A):A:C8	2.65	0.49
31:BA:1763:G:OP1	31:BA:1763:G:H4'	2.13	0.49
31:BA:2468:G:O2'	31:BA:2476:A:H8	1.96	0.49
31:BA:2476:A:C2	31:BA:2477:C:H2'	2.47	0.49
33:BD:133:LEU:HD22	33:BD:165:ILE:CD1	2.43	0.49
35:BF:57:VAL:HG11	35:BF:59:TYR:HD1	1.77	0.49
36:BG:144:ILE:HD11	36:BG:148:MET:HG2	1.93	0.49
39:BN:78:TYR:N	39:BN:79:PRO:HD3	2.27	0.49
39:BN:130:HIS:O	39:BN:130:HIS:CG	2.65	0.49
41:BP:138:LEU:C	41:BP:140:ALA:N	2.70	0.49
42:BQ:25:ASP:HB2	42:BQ:102:VAL:HG23	1.93	0.49
45:BT:28:VAL:HG13	45:BT:46:GLU:HB2	1.94	0.49
45:BT:90:GLN:HG2	45:BT:120:ARG:NH1	2.28	0.49
51:BZ:19:ARG:HA	51:BZ:23:LYS:O	2.12	0.49
1:CA:149:A:O2'	1:CA:150:C:P	2.71	0.49
1:CA:150:C:N4	1:CA:170:U:C4	2.80	0.49
1:CA:1389:C:H2'	1:CA:1390:U:O4'	2.13	0.49
2:CB:21:ARG:O	2:CB:21:ARG:HG3	2.12	0.49
4:CD:31:CYS:SG	4:CD:31:CYS:O	2.70	0.49
4:CD:79:PHE:CD2	4:CD:79:PHE:C	2.89	0.49
4:CD:127:THR:OG1	4:CD:128:VAL:N	2.44	0.49
4:CD:133:VAL:HG11	4:CD:138:TYR:HD1	1.72	0.49
10:CJ:16:LEU:HD13	10:CJ:16:LEU:O	2.13	0.49
13:CM:112:GLY:O	13:CM:113:PRO:HG2	2.12	0.49
18:CR:53:ARG:C	18:CR:55:ARG:H	2.20	0.49
20:CT:73:HIS:H	20:CT:76:ALA:HB3	1.76	0.49
24:D2:48:HIS:O	24:D2:48:HIS:CG	2.65	0.49
31:DA:691:C:H4'	33:DD:43:ARG:HG2	1.95	0.49
31:DA:839:U:H2'	31:DA:840:C:C6	2.47	0.49
31:DA:1493:C:N4	31:DA:2206:G:O2'	2.46	0.49
31:DA:2032:G:H21	34:DE:146:THR:HG23	1.78	0.49
31:DA:2043:C:C2	31:DA:2044:C:C5	3.01	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2688:U:H1'	31:DA:2721:A:N6	2.28	0.49
32:DB:86:G:H1	32:DB:91:C:N4	2.11	0.49
34:DE:51:PHE:CD1	34:DE:52:LEU:HD13	2.48	0.49
34:DE:60:ASN:OD1	34:DE:62:PRO:HD2	2.12	0.49
34:DE:128:SER:OG	34:DE:129:HIS:N	2.45	0.49
35:DF:7:TYR:HB3	35:DF:16:GLY:N	2.27	0.49
41:DP:61:ARG:HD2	41:DP:61:ARG:H	1.77	0.49
42:DQ:68:ILE:HD13	42:DQ:103:MET:HB3	1.95	0.49
44:DS:61:ASN:ND2	44:DS:64:GLU:OE2	2.46	0.49
50:DY:8:LYS:HB2	50:DY:28:LYS:HZ3	1.78	0.49
1:AA:15:G:H2'	1:AA:16:A:H8	1.77	0.49
1:AA:15:G:C4	1:AA:16:A:C8	3.01	0.49
1:AA:96:U:O2'	1:AA:97:G:P	2.71	0.49
1:AA:518:C:H2'	1:AA:530:G:C2	2.48	0.49
1:AA:540:G:H2'	1:AA:541:G:O4'	2.12	0.49
1:AA:1064:G:H5'	1:AA:1066:C:H1'	1.94	0.49
1:AA:1067:A:C4'	1:AA:1068:G:O5'	2.61	0.49
10:AJ:78:ASN:O	10:AJ:82:ILE:HG12	2.13	0.49
13:AM:83:ASP:OD1	19:AS:66:MET:HE2	2.12	0.49
14:AN:12:ARG:C	14:AN:14:PRO:CD	2.86	0.49
15:AO:43:LEU:O	15:AO:45:VAL:N	2.46	0.49
17:AQ:74:LEU:HD12	17:AQ:75:ARG:HG2	1.95	0.49
27:B5:51:TYR:HB2	27:B5:54:GLY:CA	2.43	0.49
31:BA:11:G:H2'	31:BA:12:U:H5'	1.94	0.49
31:BA:38:A:H2'	31:BA:39:C:C6	2.48	0.49
31:BA:241:A:O4'	31:BA:243:U:C6	2.66	0.49
31:BA:288:C:N4	31:BA:353:G:H1	2.08	0.49
31:BA:521:G:H2'	31:BA:522:G:H8	1.78	0.49
31:BA:1771:C:O2'	31:BA:1786:A:C8	2.46	0.49
31:BA:1952:A:C6	31:BA:1953:A:N1	2.81	0.49
31:BA:2314:C:O2'	31:BA:2315:G:H5'	2.13	0.49
31:BA:2557:G:C2'	31:BA:2558:C:H5'	2.43	0.49
32:BB:48:A:H4'	44:BS:95:HIS:CD2	2.43	0.49
33:BD:83:GLU:OE1	33:BD:104:TYR:HE2	1.96	0.49
33:BD:172:TYR:HD1	33:BD:185:VAL:C	2.20	0.49
35:BF:178:PRO:HG2	35:BF:179:GLU:OE1	2.12	0.49
36:BG:89:GLY:O	36:BG:90:LEU:C	2.55	0.49
36:BG:137:GLU:OE2	36:BG:139:LEU:HD11	2.13	0.49
38:BI:78:THR:OG1	38:BI:141:LYS:HB2	2.12	0.49
38:BI:124:GLY:H	38:BI:142:VAL:HG23	1.77	0.49
39:BN:68:GLU:HG3	39:BN:88:GLU:OE1	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:7:TYR:OH	40:BO:44:LYS:HG3	2.12	0.49
41:BP:48:PRO:HG2	41:BP:49:ARG:H	1.76	0.49
45:BT:68:TYR:N	45:BT:68:TYR:CD1	2.81	0.49
46:BU:92:ARG:CB	47:BV:11:GLN:NE2	2.71	0.49
50:BY:32:PRO:C	50:BY:34:LYS:H	2.19	0.49
50:BY:37:VAL:O	50:BY:38:ILE:CB	2.59	0.49
51:BZ:166:SER:OG	51:BZ:168:GLU:N	2.44	0.49
1:CA:32:A:C2	1:CA:33:A:C4	3.01	0.49
1:CA:445:G:N3	1:CA:446:G:C8	2.80	0.49
1:CA:613:C:N4	1:CA:627:G:H1	2.11	0.49
1:CA:1103:C:H5"	2:CB:98:LEU:HD13	1.94	0.49
1:CA:1352:C:O2	1:CA:1371:G:C2	2.66	0.49
4:CD:170:VAL:HG22	4:CD:171:GLY:H	1.77	0.49
8:CH:6:ILE:HD12	8:CH:6:ILE:H	1.76	0.49
12:CL:76:ASN:C	12:CL:77:LEU:HD23	2.37	0.49
14:CN:26:ARG:NH1	14:CN:47:LEU:HD21	2.28	0.49
16:CP:27:LYS:O	16:CP:28:ARG:C	2.55	0.49
16:CP:68:ASP:C	16:CP:70:ALA:N	2.70	0.49
30:D8:35:GLN:CB	31:DA:2420:C:OP1	2.60	0.49
30:D8:61:LEU:C	30:D8:63:PRO:HD2	2.38	0.49
31:DA:175:G:C5'	31:DA:175:G:C8	2.94	0.49
31:DA:494:G:N2	48:DW:57:ASN:HD21	2.11	0.49
31:DA:669:G:C8	31:DA:669:G:H5"	2.48	0.49
31:DA:928:G:H8	31:DA:928:G:O5'	1.96	0.49
31:DA:1479:G:C6	31:DA:1480:G:C5	3.00	0.49
31:DA:1639:U:H4'	31:DA:2699:C:H4'	1.93	0.49
31:DA:1891:G:C6	31:DA:1892:C:N3	2.80	0.49
31:DA:2313:C:H2'	31:DA:2314:C:H6	1.77	0.49
31:DA:2476:A:C2	31:DA:2477:C:H2'	2.48	0.49
31:DA:2796:U:O2'	31:DA:2799:C:H5'	2.13	0.49
31:DA:2887:U:O2'	31:DA:2888:C:H5'	2.13	0.49
33:DD:175:LEU:O	33:DD:182:LEU:HD22	2.13	0.49
34:DE:132:HIS:ND1	34:DE:132:HIS:O	2.46	0.49
36:DG:128:ARG:O	36:DG:129:GLY:C	2.54	0.49
39:DN:78:TYR:CD1	39:DN:79:PRO:CG	2.95	0.49
40:DO:77:ILE:CD1	45:DT:74:ARG:HG2	2.43	0.49
41:DP:135:LEU:HD11	41:DP:144:GLU:OE2	2.12	0.49
43:DR:8:ARG:HA	43:DR:8:ARG:NE	2.28	0.49
43:DR:100:LEU:H	43:DR:100:LEU:CD2	2.21	0.49
45:DT:47:GLY:HA3	45:DT:63:VAL:HG23	1.95	0.49
47:DV:66:ARG:NH1	47:DV:94:LEU:CD1	2.76	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DY:28:LYS:HE3	50:DY:30:VAL:CG2	2.42	0.49
51:DZ:121:HIS:HD2	51:DZ:123:ASP:O	1.94	0.49
1:AA:39:G:C5	1:AA:40:C:C5	3.01	0.49
1:AA:270:A:C6	1:AA:271:C:N3	2.81	0.49
1:AA:309:G:H2'	1:AA:310:G:H8	1.77	0.49
1:AA:414:A:H2'	1:AA:415:A:O4'	2.13	0.49
1:AA:428:G:C6	1:AA:430:A:C6	3.00	0.49
1:AA:520:A:C2	1:AA:536:C:O2	2.66	0.49
1:AA:567:G:H2'	1:AA:568:G:O4'	2.11	0.49
1:AA:590:C:O2'	1:AA:591:U:H5'	2.13	0.49
1:AA:933:G:C2	1:AA:1385:G:C2	3.01	0.49
1:AA:1250:A:N6	1:AA:1251:A:C6	2.81	0.49
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.48	0.49
3:AC:7:PRO:O	3:AC:11:ARG:HG2	2.12	0.49
4:AD:4:TYR:O	4:AD:5:ILE:HB	2.13	0.49
7:AG:79:ARG:HE	7:AG:84:ASN:HD21	1.55	0.49
9:AI:63:ILE:HD12	9:AI:63:ILE:N	2.27	0.49
26:B4:19:GLY:C	26:B4:21:VAL:N	2.63	0.49
31:BA:792:G:C3'	31:BA:793:A:H5'	2.43	0.49
31:BA:900:A:H3'	31:BA:901:A:H8	1.77	0.49
31:BA:928:G:H8	31:BA:928:G:O5'	1.96	0.49
31:BA:1022:G:O2'	31:BA:1023:U:OP2	2.31	0.49
31:BA:1205:U:C3'	31:BA:1206:G:H5'	2.43	0.49
31:BA:1771:C:C1'	31:BA:1786:A:C8	2.95	0.49
31:BA:2483:C:H2'	31:BA:2483:C:O2	2.11	0.49
31:BA:2689:U:H5"	31:BA:2690:C:H5'	1.94	0.49
33:BD:25:THR:HB	33:BD:82:ILE:H	1.78	0.49
34:BE:34:VAL:HG22	34:BE:48:GLN:NE2	2.21	0.49
34:BE:39:PRO:HD3	34:BE:45:THR:OG1	2.13	0.49
34:BE:134:ILE:HD13	34:BE:134:ILE:H	1.78	0.49
35:BF:34:TRP:CE2	41:BP:12:ALA:HB2	2.47	0.49
36:BG:16:ARG:O	36:BG:20:ILE:HG13	2.13	0.49
36:BG:178:PHE:O	36:BG:180:PHE:CD1	2.66	0.49
37:BH:154:PRO:O	37:BH:155:SER:C	2.56	0.49
38:BI:56:LYS:NZ	38:BI:57:ARG:CA	2.75	0.49
40:BO:26:LYS:HE3	40:BO:37:ASP:CG	2.38	0.49
41:BP:34:GLY:O	41:BP:35:HIS:CG	2.64	0.49
41:BP:63:PRO:C	41:BP:65:ARG:N	2.69	0.49
43:BR:67:LEU:HD13	43:BR:76:VAL:HG21	1.94	0.49
45:BT:65:LYS:HG3	45:BT:66:VAL:H	1.78	0.49
47:BV:2:PHE:O	47:BV:3:ALA:HB3	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BX:63:LYS:HZ1	49:BX:70:LEU:HD21	1.78	0.49
51:BZ:108:PRO:HG3	51:BZ:141:VAL:HG22	1.95	0.49
1:CA:176:C:H2'	1:CA:177:C:C6	2.48	0.49
1:CA:278:G:O4'	1:CA:282:A:H1'	2.13	0.49
1:CA:451:A:C6	1:CA:481:G:C5	3.01	0.49
1:CA:659:U:H2'	1:CA:660:G:H5'	1.93	0.49
1:CA:979:C:H3'	1:CA:980:C:H5"	1.95	0.49
1:CA:1434:A:H61	1:CA:1467:G:H1'	1.77	0.49
2:CB:97:TRP:CH2	2:CB:176:GLU:OE2	2.66	0.49
4:CD:75:PHE:O	4:CD:78:LEU:HB2	2.13	0.49
5:CE:129:ILE:O	5:CE:132:ALA:HB3	2.12	0.49
6:CF:3:ARG:NH1	6:CF:38:GLU:OE2	2.46	0.49
7:CG:4:ARG:HD3	7:CG:5:ARG:NH1	2.27	0.49
9:CI:99:LEU:HD12	9:CI:101:PHE:CE1	2.48	0.49
10:CJ:58:ASP:O	10:CJ:59:SER:C	2.55	0.49
31:DA:41:C:H2'	31:DA:42:G:O4'	2.13	0.49
31:DA:485:C:H2'	31:DA:486:C:C6	2.48	0.49
31:DA:602:G:O2'	31:DA:604:G:O2'	2.28	0.49
31:DA:951:C:O2'	31:DA:952:G:H5'	2.12	0.49
31:DA:1044:G:C2	31:DA:1112:G:O6	2.66	0.49
31:DA:1173:G:H5'	31:DA:1174:A:OP2	2.12	0.49
31:DA:1245:G:OP1	41:DP:16:ARG:HG2	2.13	0.49
31:DA:1504:C:O2'	31:DA:1505:C:O5'	2.30	0.49
31:DA:1592:C:H2'	31:DA:1593:G:H8	1.78	0.49
31:DA:1895:C:C2	31:DA:1896:G:C8	3.01	0.49
31:DA:2298:A:N6	31:DA:2318:G:C8	2.81	0.49
31:DA:2350:C:H2'	31:DA:2351:G:O4'	2.13	0.49
31:DA:2400:G:C5	31:DA:2401:U:C5	3.01	0.49
31:DA:2752:C:O2	31:DA:2752:C:C2'	2.59	0.49
32:DB:82:G:H2'	32:DB:83:G:H5'	1.93	0.49
33:DD:35:LYS:CE	33:DD:104:TYR:CD1	2.96	0.49
33:DD:59:LYS:HG3	33:DD:60:ARG:N	2.27	0.49
35:DF:9:ILE:HG12	35:DF:14:PRO:HA	1.94	0.49
38:DI:10:GLU:C	38:DI:12:LEU:H	2.21	0.49
38:DI:133:HIS:ND1	38:DI:134:PRO:CD	2.76	0.49
39:DN:36:GLY:N	39:DN:42:TRP:HZ3	2.11	0.49
42:DQ:18:LYS:O	42:DQ:19:GLY:C	2.55	0.49
43:DR:49:ASP:O	43:DR:52:ILE:HB	2.13	0.49
49:DX:25:LYS:CG	49:DX:26:TYR:N	2.51	0.49
49:DX:57:LEU:N	49:DX:57:LEU:CD1	2.76	0.49
49:DX:65:ARG:NE	49:DX:65:ARG:HA	2.28	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:64:G:H4'	1:AA:65:U:H5"	1.93	0.49
1:AA:253:U:H2'	1:AA:254:G:H8	1.77	0.49
1:AA:382:A:C2	1:AA:383:A:C4	3.01	0.49
1:AA:946:A:N3	1:AA:1333:A:H2	2.11	0.49
1:AA:1227:A:H2'	1:AA:1228:C:O5'	2.13	0.49
2:AB:91:PRO:HG3	2:AB:154:LEU:CB	2.43	0.49
3:AC:53:ALA:O	3:AC:54:ARG:HB2	2.13	0.49
9:AI:99:LEU:O	9:AI:100:GLY:C	2.56	0.49
11:AK:18:ARG:HB3	11:AK:33:THR:OG1	2.13	0.49
17:AQ:40:LYS:HG2	17:AQ:41:LYS:N	2.27	0.49
17:AQ:66:SER:O	17:AQ:67:LYS:C	2.54	0.49
23:B1:10:LYS:HG3	23:B1:11:ARG:N	2.27	0.49
23:B1:40:ARG:NH2	31:BA:2082:A:H5'	2.28	0.49
23:B1:78:LYS:O	23:B1:80:LEU:HG	2.13	0.49
28:B6:10:LEU:N	28:B6:10:LEU:CD2	2.75	0.49
30:B8:25:MET:HG3	41:BP:64:LYS:CB	2.29	0.49
31:BA:41:C:H2'	31:BA:42:G:O4'	2.13	0.49
31:BA:50:U:H6	31:BA:50:U:H5"	1.78	0.49
31:BA:212:G:O2'	31:BA:213:A:H5'	2.13	0.49
31:BA:340:A:C2'	31:BA:341:G:H5'	2.43	0.49
31:BA:813:U:H2'	31:BA:814:C:C6	2.48	0.49
31:BA:1280:G:C3'	31:BA:1281:G:C5'	2.90	0.49
31:BA:1324:G:C4	31:BA:1328:G:O6	2.66	0.49
31:BA:1380:G:N2	31:BA:1570:A:C2	2.80	0.49
31:BA:2854:G:H2'	31:BA:2855:C:C6	2.47	0.49
34:BE:26:ILE:HD12	34:BE:196:VAL:HG21	1.93	0.49
34:BE:170:LEU:N	34:BE:170:LEU:CD1	2.75	0.49
36:BG:71:THR:HG22	36:BG:72:ARG:N	2.28	0.49
36:BG:131:TYR:HB3	36:BG:159:VAL:HG13	1.95	0.49
37:BH:43:VAL:HG12	37:BH:53:GLU:HB2	1.95	0.49
38:BI:13:GLY:O	38:BI:14:ASP:C	2.54	0.49
39:BN:2:LYS:O	39:BN:3:THR:OG1	2.24	0.49
39:BN:77:GLY:O	39:BN:78:TYR:HB3	2.13	0.49
45:BT:106:SER:HA	45:BT:110:ILE:CG1	2.42	0.49
46:BU:92:ARG:NH2	47:BV:10:LYS:HG2	2.27	0.49
48:BW:17:VAL:HG11	48:BW:103:ILE:HD13	1.94	0.49
49:BX:47:PHE:O	49:BX:48:LYS:C	2.55	0.49
1:CA:16:A:N3	1:CA:17:U:C6	2.81	0.49
1:CA:357:G:C2	1:CA:358:U:C6	3.01	0.49
1:CA:458:C:H2'	1:CA:460:G:C8	2.48	0.49
1:CA:477:A:O2'	1:CA:479:C:H5'	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:518:C:H2'	1:CA:530:G:C2	2.48	0.49
1:CA:927:G:OP2	1:CA:1503:A:C5	2.65	0.49
1:CA:986:A:H2'	1:CA:987:G:O4'	2.13	0.49
1:CA:1057:G:C5	1:CA:1204:A:C2	3.01	0.49
1:CA:1160:G:H2'	1:CA:1160:G:N3	2.28	0.49
1:CA:1414:U:H3	1:CA:1486:G:H1	1.61	0.49
2:CB:14:GLY:O	2:CB:15:VAL:HG13	2.13	0.49
2:CB:178:ARG:HH21	8:CH:68:ARG:HH22	1.61	0.49
3:CC:94:LEU:HD12	3:CC:95:THR:N	2.28	0.49
3:CC:138:VAL:HG22	3:CC:151:VAL:HG23	1.94	0.49
4:CD:78:LEU:O	4:CD:79:PHE:C	2.56	0.49
16:CP:43:LYS:HG3	16:CP:48:TRP:CE3	2.48	0.49
18:CR:79:LEU:HD23	18:CR:80:PRO:HD2	1.95	0.49
23:D1:94:LEU:HD22	23:D1:95:LEU:N	2.27	0.49
27:D5:4:HIS:HB3	27:D5:5:PRO:CD	2.40	0.49
31:DA:84:A:H5"	50:DY:9:LYS:HD2	1.94	0.49
31:DA:271(Q):G:N3	31:DA:271(R):G:C8	2.81	0.49
31:DA:863:A:C2'	31:DA:864:G:H5'	2.42	0.49
31:DA:1142:U:H5"	31:DA:1142(A):A:C5'	2.43	0.49
31:DA:1505:C:C6	31:DA:1506:C:C6	3.01	0.49
31:DA:1963:U:O2	31:DA:1963:U:C2'	2.60	0.49
31:DA:2020:A:O2'	31:DA:2021:C:H5'	2.13	0.49
31:DA:2537:U:H2'	31:DA:2538:C:C6	2.48	0.49
32:DB:7:G:H4'	44:DS:29:PHE:CD1	2.48	0.49
33:DD:33:LEU:O	33:DD:35:LYS:N	2.46	0.49
33:DD:131:LEU:HB2	33:DD:136:ILE:CD1	2.37	0.49
34:DE:93:VAL:C	34:DE:95:ILE:H	2.20	0.49
34:DE:111:ARG:HH12	43:DR:2:ARG:HH21	1.60	0.49
34:DE:200:GLU:OE2	34:DE:200:GLU:N	2.44	0.49
36:DG:148:MET:HA	36:DG:148:MET:HE3	1.95	0.49
37:DH:149:ARG:HD3	37:DH:164:TYR:CE1	2.47	0.49
40:DO:107:ARG:HH22	45:DT:35:LYS:HD2	1.77	0.49
46:DU:117:GLN:HA	46:DU:117:GLN:OE1	2.12	0.49
50:DY:45:VAL:HG22	50:DY:62:GLU:CB	2.42	0.49
51:DZ:118:GLN:O	51:DZ:120:ILE:N	2.45	0.49
1:AA:142:G:H2'	1:AA:143:A:H8	1.78	0.48
1:AA:504:C:H1'	1:AA:510:A:C4	2.47	0.48
1:AA:635:G:C4	1:AA:636:U:C6	3.00	0.48
1:AA:642:A:C4	8:AH:114:THR:O	2.65	0.48
1:AA:688:G:H2'	1:AA:689:C:C6	2.42	0.48
1:AA:916:G:H2'	1:AA:917:G:C8	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:985:C:H2'	1:AA:986:A:C8	2.48	0.48
1:AA:1201:A:H5'	1:AA:1203:C:OP2	2.13	0.48
1:AA:1277:C:H2'	1:AA:1278:U:C5'	2.43	0.48
1:AA:1516:G:H2'	1:AA:1518:A:OP2	2.12	0.48
2:AB:97:TRP:HH2	2:AB:176:GLU:HG3	1.77	0.48
4:AD:206:PHE:CD2	4:AD:207:TYR:CE2	3.01	0.48
7:AG:85:TYR:CD1	7:AG:154:TYR:HE1	2.30	0.48
9:AI:105:ASP:CG	9:AI:107:ARG:HD3	2.38	0.48
20:AT:75:ASN:HD22	20:AT:75:ASN:H	1.59	0.48
23:B1:21:ARG:HD3	23:B1:21:ARG:C	2.38	0.48
24:B2:29:LYS:C	24:B2:33:MET:SD	2.96	0.48
24:B2:29:LYS:O	24:B2:33:MET:SD	2.71	0.48
24:B2:47:ASN:C	24:B2:49:LYS:N	2.71	0.48
27:B5:55:ARG:HD3	27:B5:56:LYS:N	2.27	0.48
31:BA:108:U:O2	31:BA:109:G:C8	2.66	0.48
31:BA:470:A:C2	31:BA:471:A:C4	3.01	0.48
31:BA:535:C:O2'	31:BA:536:A:H5'	2.13	0.48
31:BA:661:C:H2'	31:BA:662:G:C8	2.48	0.48
31:BA:1699:G:H4'	31:BA:1700:A:OP2	2.12	0.48
31:BA:2352:A:C2'	31:BA:2353:G:H5'	2.43	0.48
31:BA:2476:A:H2'	31:BA:2477:C:C5'	2.40	0.48
31:BA:2646:C:H2'	31:BA:2647:U:O4'	2.13	0.48
31:BA:2698:U:H2'	31:BA:2699:C:C6	2.48	0.48
33:BD:16:MET:HB2	33:BD:207:GLY:CA	2.43	0.48
34:BE:61:ARG:H	34:BE:62:PRO:HD2	1.76	0.48
35:BF:1:MET:O	35:BF:2:LYS:O	2.31	0.48
36:BG:43:LEU:HD12	36:BG:153:ARG:HD2	1.95	0.48
40:BO:35:VAL:HG13	40:BO:65:THR:HG22	1.95	0.48
41:BP:16:ARG:HD3	41:BP:16:ARG:C	2.37	0.48
46:BU:92:ARG:NH2	47:BV:10:LYS:CB	2.76	0.48
47:BV:15:GLU:HB3	47:BV:16:PRO:CD	2.34	0.48
49:BX:57:LEU:O	49:BX:76:ARG:N	2.46	0.48
50:BY:37:VAL:HG23	50:BY:38:ILE:N	2.27	0.48
50:BY:88:LYS:NZ	50:BY:93:GLY:HA3	2.27	0.48
1:CA:16:A:C2	1:CA:17:U:C6	3.01	0.48
1:CA:165:C:H2'	1:CA:166:G:H8	1.78	0.48
1:CA:298:A:H5"	1:CA:299:G:OP2	2.12	0.48
1:CA:973:G:C4	10:CJ:55:LYS:HE2	2.48	0.48
1:CA:1322:C:H6	1:CA:1322:C:OP1	1.96	0.48
2:CB:35:GLU:HA	2:CB:39:ILE:O	2.13	0.48
9:CI:112:LYS:HA	9:CI:119:ALA:HB2	1.94	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:38:ILE:HG12	10:CJ:71:LEU:O	2.13	0.48
11:CK:24:SER:HB3	11:CK:27:ASN:O	2.13	0.48
16:CP:43:LYS:C	16:CP:45:THR:N	2.71	0.48
18:CR:22:VAL:HG12	18:CR:22:VAL:O	2.13	0.48
20:CT:55:ILE:O	20:CT:56:MET:C	2.55	0.48
23:D1:67:ILE:N	23:D1:68:PRO:CD	2.76	0.48
30:D8:7:HIS:HD2	41:DP:50:ARG:HD3	1.78	0.48
30:D8:39:LYS:CE	30:D8:42:ARG:HH12	2.24	0.48
31:DA:19:C:H2'	31:DA:20:C:H6	1.78	0.48
31:DA:303:U:H2'	31:DA:304:G:C8	2.48	0.48
31:DA:668:G:H5'	31:DA:669:G:OP2	2.13	0.48
31:DA:721:C:H2'	31:DA:722:A:C8	2.48	0.48
31:DA:792:G:C3'	31:DA:793:A:H5'	2.43	0.48
31:DA:1000:A:C6	31:DA:1001:A:C6	3.00	0.48
31:DA:1591:G:C5'	31:DA:1591:G:H8	2.26	0.48
31:DA:1853:A:N1	31:DA:2087:G:H1'	2.28	0.48
31:DA:2040:C:H2'	31:DA:2041:U:O4'	2.12	0.48
31:DA:2102:U:C6	31:DA:2187:G:O6	2.66	0.48
31:DA:2320:A:N3	31:DA:2320:A:H2'	2.27	0.48
31:DA:2687:U:C4	31:DA:2688:U:C5	3.01	0.48
31:DA:2822:G:O6	43:DR:4:LEU:HD13	2.12	0.48
31:DA:2850:A:C2	31:DA:2851:A:C4	3.01	0.48
33:DD:27:THR:O	33:DD:28:GLU:HB2	2.13	0.48
33:DD:153:ALA:O	33:DD:154:LYS:HG3	2.13	0.48
34:DE:10:GLY:HA3	45:DT:8:LYS:HE3	1.95	0.48
35:DF:83:PHE:O	35:DF:84:VAL:HB	2.13	0.48
36:DG:43:LEU:HD12	36:DG:153:ARG:HD2	1.94	0.48
36:DG:57:ALA:HB2	36:DG:90:LEU:HD21	1.95	0.48
38:DI:68:LEU:C	38:DI:70:GLU:H	2.20	0.48
40:DO:64:ARG:HG2	40:DO:79:PHE:CD1	2.48	0.48
45:DT:52:ILE:O	45:DT:98:LYS:HE3	2.13	0.48
50:DY:98:VAL:O	50:DY:99:CYS:CB	2.61	0.48
51:DZ:175:VAL:HB	51:DZ:176:PRO:CD	2.43	0.48
1:AA:451:A:C6	1:AA:481:G:C5	3.01	0.48
1:AA:685:G:C2	1:AA:686:U:C4	3.02	0.48
1:AA:948:C:C5	13:AM:106:ASN:ND2	2.81	0.48
1:AA:1290:G:H2'	1:AA:1290:G:N3	2.27	0.48
1:AA:1298:C:C6	7:AG:114:ARG:CZ	2.97	0.48
4:AD:92:VAL:HG12	4:AD:96:LEU:CD2	2.42	0.48
6:AF:61:LEU:HD23	6:AF:63:TYR:OH	2.12	0.48
9:AI:61:ALA:HB1	9:AI:63:ILE:HD11	1.93	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:36:ARG:HD2	19:AS:52:TYR:O	2.13	0.48
22:B0:8:GLY:HA2	42:BQ:83:MET:CG	2.43	0.48
23:B1:86:SER:C	23:B1:89:GLU:OE2	2.56	0.48
24:B2:51:ARG:O	24:B2:51:ARG:HD3	2.13	0.48
25:B3:17:LYS:HE2	31:BA:969:U:OP1	2.14	0.48
28:B6:26:ASN:HD22	28:B6:32:ASN:HD21	1.60	0.48
31:BA:744:G:C2'	31:BA:745:G:O5'	2.62	0.48
31:BA:765:G:H2'	31:BA:766:C:C6	2.48	0.48
31:BA:848:G:C4	31:BA:933:A:H8	2.31	0.48
31:BA:855:G:C6	31:BA:856:C:C4	3.01	0.48
31:BA:1448:G:O2'	31:BA:1528(A):A:N1	2.45	0.48
31:BA:2335:A:C8	31:BA:2337:G:N7	2.82	0.48
31:BA:2681:C:C5	31:BA:2725:A:N6	2.66	0.48
31:BA:2839:G:H5'	43:BR:46:GLY:HA3	1.94	0.48
31:BA:2864:G:H2'	31:BA:2865:U:O4'	2.12	0.48
34:BE:56:PRO:O	34:BE:58:ARG:N	2.46	0.48
34:BE:132:HIS:CG	34:BE:135:HIS:CE1	3.01	0.48
36:BG:57:ALA:CB	36:BG:90:LEU:HD21	2.43	0.48
39:BN:131:GLN:NE2	39:BN:134:ARG:CA	2.74	0.48
41:BP:14:LYS:O	41:BP:15:ARG:CB	2.60	0.48
44:BS:97:ARG:C	44:BS:97:ARG:NE	2.71	0.48
45:BT:90:GLN:NE2	45:BT:124:ASP:OD2	2.46	0.48
48:BW:88:ARG:HB2	48:BW:92:ARG:HB3	1.94	0.48
1:CA:267:C:OP1	17:CQ:67:LYS:HD2	2.13	0.48
1:CA:664:G:P	18:CR:64:ARG:HH21	2.36	0.48
1:CA:1173:G:H2'	1:CA:1174:G:C8	2.47	0.48
1:CA:1191:A:H5"	3:CC:4:LYS:HZ2	1.76	0.48
1:CA:1505:G:C4'	1:CA:1506:U:H5"	2.42	0.48
3:CC:112:SER:HB3	3:CC:115:LEU:HD12	1.95	0.48
9:CI:40:LEU:HD11	9:CI:70:LYS:CG	2.44	0.48
10:CJ:80:LYS:HZ3	10:CJ:80:LYS:HB2	1.78	0.48
19:CS:36:ARG:HD2	19:CS:52:TYR:O	2.13	0.48
28:D6:12:GLU:CA	28:D6:23:THR:HA	2.43	0.48
31:DA:271(A):A:C2	31:DA:272(D):G:N3	2.80	0.48
31:DA:375:C:H2'	31:DA:376:C:C6	2.48	0.48
31:DA:376:C:N4	31:DA:398:G:H1	2.09	0.48
31:DA:1296:G:O2'	31:DA:1297:C:H5'	2.13	0.48
31:DA:1301:A:C8	31:DA:1303:G:C8	3.01	0.48
31:DA:1478:G:O2'	31:DA:1558:A:H2	1.95	0.48
31:DA:1722:A:N6	31:DA:1741:A:N1	2.61	0.48
31:DA:2404:C:C2'	31:DA:2405:G:H5"	2.43	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2557:G:C2'	31:DA:2558:C:H5'	2.43	0.48
31:DA:2850:A:H2'	31:DA:2851:A:O5'	2.13	0.48
31:DA:2864:G:H2'	31:DA:2865:U:O4'	2.13	0.48
33:DD:25:THR:HG21	33:DD:82:ILE:H	1.76	0.48
34:DE:26:ILE:HD12	34:DE:196:VAL:HG21	1.93	0.48
36:DG:94:LEU:HB2	36:DG:99:MET:HA	1.94	0.48
38:DI:117:GLU:HG3	38:DI:118:LYS:H	1.78	0.48
38:DI:120:ILE:HG22	38:DI:121:LYS:N	2.27	0.48
1:AA:165:C:H2'	1:AA:166:G:H8	1.77	0.48
1:AA:458:C:H2'	1:AA:460:G:H8	1.78	0.48
1:AA:1015:A:N6	1:AA:1016:A:C6	2.81	0.48
1:AA:1352:C:O2	1:AA:1371:G:C2	2.65	0.48
2:AB:97:TRP:CH2	2:AB:176:GLU:HG3	2.48	0.48
2:AB:223:ILE:C	2:AB:225:ALA:H	2.21	0.48
4:AD:88:VAL:O	4:AD:92:VAL:HG23	2.12	0.48
13:AM:91:ARG:HB2	13:AM:98:VAL:HG21	1.93	0.48
15:AO:23:GLY:O	15:AO:24:SER:HB3	2.12	0.48
30:B8:14:VAL:HG13	30:B8:22:VAL:HG13	1.95	0.48
31:BA:814:C:H5	41:BP:27:HIS:CD2	2.31	0.48
31:BA:1529:G:C2	31:BA:1530:C:H5"	2.48	0.48
31:BA:2850:A:H5'	31:BA:2868:A:C2	2.48	0.48
33:BD:25:THR:CG2	33:BD:25:THR:O	2.59	0.48
33:BD:89:SER:HB2	33:BD:159:ALA:HB2	1.94	0.48
33:BD:165:ILE:HD13	33:BD:175:LEU:HD21	1.94	0.48
34:BE:44:TYR:O	34:BE:45:THR:HB	2.13	0.48
34:BE:70:ALA:O	34:BE:72:VAL:C	2.56	0.48
35:BF:51:THR:OG1	35:BF:91:GLY:HA3	2.13	0.48
36:BG:90:LEU:H	36:BG:90:LEU:HD12	1.78	0.48
37:BH:70:THR:HG22	37:BH:71:LEU:N	2.29	0.48
40:BO:107:ARG:HH22	45:BT:35:LYS:HD2	1.76	0.48
45:BT:49:VAL:HG22	45:BT:49:VAL:O	2.13	0.48
47:BV:91:TYR:C	47:BV:91:TYR:CD2	2.91	0.48
47:BV:96:ILE:HG22	47:BV:97:LYS:N	2.27	0.48
49:BX:60:ARG:NE	49:BX:74:PRO:CG	2.77	0.48
1:CA:9:G:H2'	1:CA:9:G:N3	2.27	0.48
1:CA:682:G:C4	1:CA:683:G:C8	3.01	0.48
1:CA:1137:C:H4'	1:CA:1138:G:C2	2.49	0.48
1:CA:1227:A:H2'	1:CA:1228:C:O5'	2.13	0.48
4:CD:19:LEU:HD13	4:CD:21:LEU:HD21	1.94	0.48
4:CD:117:ALA:O	4:CD:120:LEU:HB2	2.13	0.48
4:CD:121:VAL:O	4:CD:134:ASP:HA	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:10:LEU:HD21	6:CF:26:ILE:HD11	1.94	0.48
6:CF:44:GLY:HA2	6:CF:59:TYR:CZ	2.48	0.48
10:CJ:48:THR:HA	10:CJ:62:HIS:CB	2.43	0.48
11:CK:21:ILE:HB	11:CK:84:VAL:HA	1.95	0.48
17:CQ:48:GLU:C	17:CQ:50:LYS:N	2.71	0.48
27:D5:54:GLY:O	27:D5:56:LYS:NZ	2.43	0.48
31:DA:67:U:C2'	31:DA:68:G:H5'	2.43	0.48
31:DA:280:C:C2'	31:DA:281:G:O5'	2.61	0.48
31:DA:336:C:H2'	31:DA:337:C:H6	1.78	0.48
31:DA:341:G:H2'	31:DA:342:G:O5'	2.14	0.48
31:DA:353:G:H2'	31:DA:354:G:O5'	2.12	0.48
31:DA:465:G:C6	31:DA:466:A:N6	2.80	0.48
31:DA:856:C:C4'	31:DA:857:C:OP1	2.54	0.48
31:DA:1030:G:OP2	42:DQ:128:LYS:HE2	2.12	0.48
31:DA:1578:U:O2	31:DA:1578:U:H2'	2.13	0.48
31:DA:2303:G:N2	31:DA:2314:C:C6	2.81	0.48
31:DA:2360:A:O2'	31:DA:2361:A:O5'	2.31	0.48
31:DA:2504:U:H2'	31:DA:2504:U:O2	2.12	0.48
31:DA:2788:C:O2'	31:DA:2809:A:N3	2.41	0.48
33:DD:4:LYS:NZ	33:DD:20:ASP:HA	2.29	0.48
34:DE:111:ARG:HD3	34:DE:160:TYR:CE1	2.48	0.48
35:DF:24:LEU:O	35:DF:25:PRO:C	2.55	0.48
42:DQ:19:GLY:C	42:DQ:21:THR:H	2.21	0.48
42:DQ:54:MET:HE3	42:DQ:64:ILE:HG21	1.95	0.48
45:DT:22:PHE:CE1	45:DT:52:ILE:HD11	2.48	0.48
47:DV:1:MET:HE1	47:DV:44:LYS:H	1.78	0.48
1:AA:192:U:H4'	20:AT:103:GLY:HA2	1.94	0.48
1:AA:491:G:C2	1:AA:492:G:C4	3.02	0.48
1:AA:522:C:H41	12:AL:53:ARG:HH22	1.60	0.48
1:AA:664:G:N2	1:AA:741:G:H1	2.11	0.48
1:AA:930:C:C4	1:AA:931:C:C5	3.01	0.48
1:AA:1076:C:C2	1:AA:1082:G:C2	3.01	0.48
2:AB:21:ARG:O	2:AB:21:ARG:HG3	2.12	0.48
2:AB:28:PHE:HD1	2:AB:190:THR:HG22	1.78	0.48
2:AB:67:THR:HG21	2:AB:155:LEU:CD2	2.42	0.48
2:AB:215:LEU:O	2:AB:219:VAL:HG23	2.12	0.48
3:AC:94:LEU:HD12	3:AC:95:THR:N	2.28	0.48
10:AJ:33:GLN:H	10:AJ:75:ILE:HD11	1.78	0.48
10:AJ:50:ILE:HA	10:AJ:60:ARG:HB2	1.95	0.48
12:AL:46:LYS:HG2	12:AL:47:LYS:H	1.78	0.48
13:AM:48:LEU:HD11	13:AM:53:VAL:HG22	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:26:GLU:OE2	15:AO:77:ARG:NH1	2.47	0.48
23:B1:26:ARG:HB2	23:B1:34:THR:CA	2.44	0.48
24:B2:30:ARG:HD2	24:B2:30:ARG:H	1.77	0.48
31:BA:231:C:O2'	31:BA:232:G:H5'	2.14	0.48
31:BA:354:G:H2'	31:BA:355:G:H8	1.78	0.48
31:BA:659:C:H5"	31:BA:659:C:H6	1.78	0.48
31:BA:855:G:C6	31:BA:856:C:N4	2.81	0.48
31:BA:1321:A:H2'	31:BA:1322:A:O4'	2.13	0.48
31:BA:1486:A:H61	31:BA:1504:C:H42	1.60	0.48
31:BA:2350:C:H2'	31:BA:2351:G:O4'	2.13	0.48
31:BA:2703:C:H2'	31:BA:2704:C:H6	1.78	0.48
34:BE:132:HIS:ND1	34:BE:132:HIS:O	2.45	0.48
36:BG:165:THR:OG1	36:BG:168:GLU:HG3	2.13	0.48
40:BO:65:THR:CG2	40:BO:69:ILE:HD11	2.42	0.48
43:BR:34:ILE:HA	43:BR:34:ILE:HD12	1.54	0.48
44:BS:51:ALA:HB3	44:BS:73:LEU:HG	1.94	0.48
47:BV:32:THR:HG22	47:BV:33:VAL:H	1.77	0.48
49:BX:89:ILE:HA	49:BX:92:LEU:HD12	1.95	0.48
1:CA:920:U:H2'	1:CA:921:U:H6	1.75	0.48
1:CA:930:C:C4	1:CA:931:C:C5	3.01	0.48
1:CA:1072:G:C4	1:CA:1073:U:C5	3.01	0.48
1:CA:1106:G:H4'	3:CC:171:GLY:O	2.13	0.48
1:CA:1250:A:N6	1:CA:1251:A:C6	2.82	0.48
1:CA:1298:C:C6	7:CG:114:ARG:CZ	2.96	0.48
9:CI:104:ARG:O	9:CI:104:ARG:HG2	2.12	0.48
23:D1:9:GLY:O	23:D1:10:LYS:CB	2.60	0.48
23:D1:16:ASN:HB3	23:D1:46:LEU:CD1	2.43	0.48
23:D1:66:HIS:C	23:D1:68:PRO:HD2	2.39	0.48
23:D1:73:LEU:O	23:D1:76:ARG:HG2	2.13	0.48
28:D6:9:LEU:HD13	28:D6:9:LEU:C	2.37	0.48
28:D6:42:TRP:HA	28:D6:42:TRP:HE3	1.78	0.48
31:DA:80:G:N2	31:DA:81:G:H1'	2.28	0.48
31:DA:329:G:H1	50:DY:19:LYS:HE3	1.77	0.48
31:DA:389:G:C2	41:DP:71:VAL:HG12	2.49	0.48
31:DA:466:A:H2'	31:DA:467:G:H5'	1.94	0.48
31:DA:813:U:H2'	31:DA:814:C:C6	2.48	0.48
31:DA:922:U:H2'	31:DA:923:C:C6	2.47	0.48
31:DA:1141:U:H6	39:DN:63:THR:HB	1.77	0.48
31:DA:1188:U:H2'	31:DA:1189:A:C5'	2.35	0.48
31:DA:1404:C:H2'	31:DA:1404:C:O2	2.13	0.48
31:DA:2393:A:H5'	41:DP:62:LEU:HB3	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2567:G:H2'	31:DA:2568:C:H6	1.77	0.48
31:DA:2637:U:O2'	31:DA:2638:G:H5'	2.13	0.48
33:DD:68:LYS:HB2	33:DD:70:TRP:CH2	2.48	0.48
35:DF:192:LEU:HD11	35:DF:194:MET:HE2	1.96	0.48
36:DG:107:LEU:HD11	36:DG:178:PHE:CE1	2.48	0.48
39:DN:24:GLY:CA	39:DN:27:ALA:HB3	2.40	0.48
45:DT:28:VAL:HG22	45:DT:46:GLU:CA	2.43	0.48
49:DX:84:ALA:O	49:DX:86:GLY:N	2.47	0.48
50:DY:32:PRO:C	50:DY:34:LYS:N	2.72	0.48
1:AA:47:C:H5"	1:AA:365:U:C6	2.49	0.48
1:AA:322:C:OP2	1:AA:328:C:N4	2.47	0.48
1:AA:341:C:O2'	1:AA:342:C:H5'	2.13	0.48
1:AA:375:U:O3'	16:AP:6:LEU:HB2	2.13	0.48
1:AA:491:G:C4	1:AA:492:G:C8	3.01	0.48
1:AA:552:U:H5'	12:AL:86:ARG:HD2	1.95	0.48
1:AA:617:G:N1	1:AA:618:C:C5	2.82	0.48
1:AA:790:A:C6	1:AA:791:G:C6	3.02	0.48
1:AA:950:U:H6	13:AM:102:ARG:NH1	2.11	0.48
1:AA:1106:G:H4'	3:AC:171:GLY:O	2.13	0.48
1:AA:1156:G:H8	1:AA:1156:G:O5'	1.97	0.48
1:AA:1250:A:H61	1:AA:1354:C:H1'	1.78	0.48
2:AB:168:THR:HG23	2:AB:192:SER:HA	1.96	0.48
3:AC:68:VAL:HG12	3:AC:70:VAL:HG23	1.96	0.48
9:AI:53:VAL:CB	9:AI:92:TYR:HE2	2.26	0.48
13:AM:31:LYS:HA	13:AM:34:LEU:HD12	1.94	0.48
15:AO:43:LEU:C	15:AO:45:VAL:H	2.22	0.48
29:B7:47:ARG:C	29:B7:48:LYS:HD3	2.38	0.48
31:BA:528:A:H3'	31:BA:528:A:H8	1.77	0.48
31:BA:1016:G:H2'	31:BA:1017:G:H8	1.78	0.48
31:BA:1169:G:N2	31:BA:1181:C:C2	2.81	0.48
31:BA:1751:C:O4'	31:BA:2860:A:C2	2.67	0.48
31:BA:2040:C:H2'	31:BA:2041:U:O4'	2.14	0.48
31:BA:2789:C:OP1	31:BA:2789:C:C4'	2.55	0.48
33:BD:77:ALA:HB2	33:BD:97:TYR:CG	2.47	0.48
33:BD:133:LEU:O	33:BD:134:ARG:C	2.55	0.48
33:BD:224:ALA:O	33:BD:225:ALA:CB	2.62	0.48
33:BD:228:PRO:HD3	33:BD:235:GLY:CA	2.42	0.48
34:BE:201:THR:HG22	34:BE:203:LYS:N	2.24	0.48
35:BF:158:THR:HG23	35:BF:160:ASN:N	2.26	0.48
38:BI:21:VAL:HG21	38:BI:26:ALA:HB2	1.95	0.48
39:BN:126:PRO:O	39:BN:127:ASP:HB2	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BP:62:LEU:CD2	41:BP:62:LEU:H	1.94	0.48
48:BW:1:MET:HG2	48:BW:64:MET:HE3	1.95	0.48
50:BY:37:VAL:HG23	50:BY:38:ILE:H	1.78	0.48
1:CA:303:A:H2'	1:CA:304:U:O4'	2.14	0.48
1:CA:580:U:O2'	15:CO:57:LEU:HD13	2.13	0.48
1:CA:1123:A:O2'	10:CJ:38:ILE:HG22	2.14	0.48
1:CA:1158:C:H42	1:CA:1181:G:H22	1.60	0.48
1:CA:1179:A:O2'	9:CI:103:THR:HG23	2.13	0.48
1:CA:1310:G:OP1	13:CM:77:ASN:HB3	2.14	0.48
4:CD:165:MET:O	4:CD:166:LYS:C	2.56	0.48
5:CE:7:GLU:HB2	5:CE:35:GLY:O	2.13	0.48
6:CF:73:ASN:O	6:CF:76:ALA:HB3	2.14	0.48
9:CI:40:LEU:HD11	9:CI:70:LYS:HG3	1.94	0.48
16:CP:34:GLU:OE2	16:CP:55:ARG:HD3	2.14	0.48
19:CS:6:LYS:HD2	19:CS:6:LYS:N	2.27	0.48
27:D5:51:TYR:N	27:D5:54:GLY:HA3	2.29	0.48
29:D7:24:THR:HG23	29:D7:27:GLY:N	2.29	0.48
31:DA:128:C:O2'	31:DA:129:C:P	2.71	0.48
31:DA:342:G:C2'	31:DA:343:C:H5'	2.42	0.48
31:DA:996:A:O2'	46:DU:92:ARG:HG3	2.14	0.48
31:DA:1547:C:H2'	31:DA:1548:C:C6	2.49	0.48
31:DA:1722:A:O2'	31:DA:1739:U:C5'	2.61	0.48
31:DA:1741:A:N7	31:DA:1742:G:C2	2.82	0.48
31:DA:1833:U:O2'	31:DA:1969:A:N1	2.39	0.48
31:DA:2762:G:H2'	31:DA:2763:G:H5'	1.96	0.48
33:DD:24:ILE:HD11	33:DD:84:TYR:N	2.28	0.48
33:DD:25:THR:CB	33:DD:82:ILE:H	2.26	0.48
34:DE:11:MET:HB3	34:DE:24:THR:HA	1.96	0.48
35:DF:22:ALA:C	35:DF:26:ALA:HB2	2.38	0.48
35:DF:132:VAL:C	35:DF:134:GLY:N	2.72	0.48
36:DG:81:LYS:O	36:DG:82:LEU:O	2.31	0.48
37:DH:13:LYS:HA	37:DH:13:LYS:CE	2.39	0.48
37:DH:28:GLY:C	37:DH:30:LYS:H	2.22	0.48
37:DH:85:LYS:HE3	37:DH:133:VAL:CB	2.38	0.48
38:DI:99:GLU:HG3	38:DI:103:ARG:CZ	2.44	0.48
41:DP:125:VAL:O	41:DP:145:PRO:HD2	2.14	0.48
45:DT:32:TYR:CB	45:DT:81:PRO:HB2	2.43	0.48
45:DT:118:ARG:O	45:DT:119:LYS:C	2.55	0.48
49:DX:59:VAL:O	49:DX:60:ARG:O	2.31	0.48
49:DX:73:ARG:H	49:DX:74:PRO:HD3	1.76	0.48
50:DY:8:LYS:HE3	50:DY:72:VAL:HG23	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DY:81:LYS:HG2	50:DY:97:ARG:H	1.79	0.48
1:AA:184:G:H2'	1:AA:185:A:H8	1.78	0.48
1:AA:579:G:C5	1:AA:580:U:C5	3.01	0.48
1:AA:1311:G:N2	1:AA:1327:C:C2	2.81	0.48
2:AB:14:GLY:O	2:AB:15:VAL:HG13	2.12	0.48
4:AD:74:GLN:O	4:AD:78:LEU:HG	2.14	0.48
5:AE:129:ILE:O	5:AE:132:ALA:HB3	2.12	0.48
10:AJ:32:ALA:HB1	10:AJ:75:ILE:HG13	1.94	0.48
10:AJ:74:ILE:H	10:AJ:74:ILE:HD13	1.77	0.48
11:AK:41:THR:CG2	11:AK:42:TRP:N	2.76	0.48
12:AL:89:ARG:HA	12:AL:97:ARG:HA	1.95	0.48
17:AQ:7:THR:HA	17:AQ:57:VAL:O	2.14	0.48
20:AT:50:GLU:CB	20:AT:100:ILE:HG12	2.34	0.48
23:B1:94:LEU:HD22	23:B1:95:LEU:N	2.28	0.48
24:B2:54:LYS:H	24:B2:56:GLN:NE2	2.10	0.48
27:B5:10:LYS:HE3	31:BA:1262:A:N3	2.29	0.48
30:B8:27:THR:HA	41:BP:62:LEU:CD1	2.43	0.48
31:BA:34:C:H2'	31:BA:35:G:OP1	2.13	0.48
31:BA:173:G:C6	31:BA:174:C:C4	3.01	0.48
31:BA:893:C:H2'	31:BA:894:C:O5'	2.13	0.48
31:BA:923:C:H2'	31:BA:924:C:C6	2.48	0.48
31:BA:1318:C:H2'	31:BA:1318:C:O2	2.14	0.48
31:BA:1719:G:H2'	31:BA:1720:U:C5'	2.43	0.48
31:BA:2020:A:OP1	46:BU:26:GLY:HA3	2.12	0.48
31:BA:2314:C:N3	31:BA:2315:G:C8	2.82	0.48
32:BB:75:G:H5'	32:BB:75:G:C8	2.34	0.48
34:BE:179:GLU:HB3	34:BE:181:LEU:HD22	1.95	0.48
36:BG:54:GLU:O	36:BG:57:ALA:HB3	2.13	0.48
36:BG:86:MET:O	36:BG:87:PRO:C	2.56	0.48
36:BG:94:LEU:HB2	36:BG:99:MET:HA	1.96	0.48
37:BH:54:ARG:CG	37:BH:65:HIS:HD2	2.27	0.48
39:BN:51:PHE:O	39:BN:119:ARG:O	2.31	0.48
39:BN:120:LEU:HD13	39:BN:121:LYS:N	2.29	0.48
41:BP:111:ARG:HA	41:BP:128:HIS:CD2	2.48	0.48
43:BR:28:LEU:O	43:BR:28:LEU:HD22	2.14	0.48
44:BS:26:LEU:O	44:BS:88:ASP:HB3	2.13	0.48
45:BT:22:PHE:CE2	45:BT:85:LYS:HE3	2.48	0.48
45:BT:57:PHE:O	45:BT:58:ASN:C	2.56	0.48
48:BW:18:ARG:NH1	48:BW:18:ARG:HG2	2.29	0.48
50:BY:37:VAL:HG11	50:BY:72:VAL:HG21	1.96	0.48
51:BZ:45:ASP:O	51:BZ:46:LYS:C	2.57	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:44:G:N2	1:CA:399:G:C4	2.81	0.48
1:CA:63:C:O2'	1:CA:380:G:H4'	2.13	0.48
1:CA:431:A:H2'	1:CA:432:A:O4'	2.14	0.48
1:CA:504:C:H1'	1:CA:510:A:C4	2.48	0.48
1:CA:1311:G:N2	1:CA:1327:C:C2	2.81	0.48
1:CA:1404:C:H2'	1:CA:1405:G:C8	2.49	0.48
4:CD:30:LYS:HA	4:CD:35:ARG:HD2	1.95	0.48
5:CE:110:LEU:O	5:CE:115:VAL:HG23	2.13	0.48
5:CE:127:ASN:O	5:CE:128:PRO:C	2.56	0.48
6:CF:3:ARG:HB3	6:CF:93:SER:HB2	1.95	0.48
7:CG:50:ILE:HD12	7:CG:61:VAL:HG11	1.94	0.48
8:CH:6:ILE:H	8:CH:6:ILE:CD1	2.27	0.48
17:CQ:74:LEU:HD12	17:CQ:75:ARG:HG2	1.96	0.48
24:D2:46:GLN:NE2	24:D2:47:ASN:N	2.61	0.48
27:D5:32:PRO:O	27:D5:33:CYS:CB	2.58	0.48
28:D6:51:GLU:O	28:D6:52:VAL:HG23	2.14	0.48
29:D7:29:LYS:O	29:D7:30:VAL:C	2.54	0.48
31:DA:128:C:H6	31:DA:128:C:H5"	1.79	0.48
31:DA:256:A:C2	31:DA:257:A:C4	3.02	0.48
31:DA:523:C:H4'	31:DA:540:C:O2	2.14	0.48
31:DA:750:A:C4	31:DA:753:C:H1'	2.49	0.48
31:DA:945:A:O3'	31:DA:946:G:H4'	2.14	0.48
31:DA:1157:G:C2'	31:DA:1158:C:H5'	2.42	0.48
31:DA:1658:C:H2'	31:DA:1659:U:C6	2.49	0.48
31:DA:1980:G:O2'	31:DA:1982:C:OP2	2.29	0.48
31:DA:2027:G:C5	31:DA:2028:U:C5	3.01	0.48
31:DA:2399:G:H2'	31:DA:2400:G:O4'	2.14	0.48
34:DE:132:HIS:CG	34:DE:135:HIS:CE1	2.98	0.48
36:DG:11:TYR:CZ	36:DG:16:ARG:HD3	2.48	0.48
36:DG:131:TYR:HB3	36:DG:159:VAL:HG13	1.96	0.48
36:DG:144:ILE:HD11	36:DG:148:MET:HG2	1.94	0.48
38:DI:56:LYS:NZ	38:DI:57:ARG:CA	2.77	0.48
39:DN:67:LEU:HD22	39:DN:88:GLU:OE2	2.13	0.48
45:DT:90:GLN:NE2	45:DT:124:ASP:OD2	2.46	0.48
46:DU:104:GLN:O	46:DU:108:GLU:HG3	2.12	0.48
1:AA:102:G:C6	1:AA:103:C:C4	3.02	0.48
1:AA:352:C:O2'	1:AA:354:G:OP1	2.25	0.48
1:AA:356:A:H2'	1:AA:357:G:H8	1.78	0.48
1:AA:429:U:H4'	1:AA:430:A:O5'	2.13	0.48
1:AA:631:G:H5"	1:AA:632:A:OP1	2.13	0.48
1:AA:895:G:H2'	1:AA:896:C:C6	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1074:G:C2	1:AA:1102:A:C2	3.02	0.48
1:AA:1434:A:H61	1:AA:1467:G:H1'	1.78	0.48
5:AE:51:VAL:O	5:AE:55:VAL:HG23	2.14	0.48
8:AH:6:ILE:HB	8:AH:85:ARG:HH12	1.78	0.48
8:AH:41:ARG:HG2	8:AH:41:ARG:O	2.12	0.48
11:AK:77:MET:SD	11:AK:80:VAL:HG12	2.54	0.48
15:AO:78:TYR:O	15:AO:79:ARG:C	2.56	0.48
17:AQ:3:LYS:O	17:AQ:4:LYS:C	2.57	0.48
24:B2:33:MET:HE3	24:B2:33:MET:HA	1.95	0.48
29:B7:10:ARG:O	29:B7:14:LYS:HB2	2.13	0.48
30:B8:4:MET:O	30:B8:62:LEU:HD12	2.13	0.48
31:BA:627:A:C5	31:BA:637:A:N7	2.82	0.48
31:BA:994:C:O2	47:BV:10:LYS:HE2	2.13	0.48
31:BA:1009:A:OP2	39:BN:37:LYS:NZ	2.30	0.48
31:BA:1019:U:C2'	31:BA:1021:A:H2	2.26	0.48
31:BA:1047:G:H21	31:BA:1111:A:N6	2.02	0.48
31:BA:1406:U:H2'	31:BA:1407:C:C6	2.48	0.48
31:BA:1486:A:H2'	31:BA:1487:G:C8	2.48	0.48
31:BA:1497:U:O2	31:BA:1497:U:C2'	2.62	0.48
31:BA:1568:G:OP2	33:BD:63:ARG:NH2	2.46	0.48
31:BA:1721:G:H8	31:BA:1741:A:H62	1.60	0.48
31:BA:1925:C:O2'	31:BA:1926:U:H5'	2.14	0.48
31:BA:2495:G:H5"	42:BQ:81:VAL:HG22	1.96	0.48
31:BA:2558:C:H2'	31:BA:2559:C:O5'	2.14	0.48
32:BB:14:U:O2	32:BB:14:U:O4'	2.27	0.48
32:BB:89:G:C6	32:BB:90:A:N6	2.82	0.48
41:BP:85:LEU:HB3	41:BP:114:ILE:CD1	2.43	0.48
44:BS:88:ASP:CG	44:BS:89:ARG:N	2.71	0.48
48:BW:10:VAL:O	48:BW:11:ARG:CB	2.61	0.48
50:BY:100:ALA:O	50:BY:101:LYS:HB3	2.12	0.48
1:CA:134:A:N6	16:CP:25:ARG:HH12	2.03	0.48
1:CA:321:A:C2	1:CA:333:G:C2	3.02	0.48
1:CA:376:G:O2'	1:CA:377:G:H5'	2.12	0.48
1:CA:438:G:OP1	4:CD:125:HIS:HE1	1.95	0.48
1:CA:542:G:H2'	1:CA:543:C:H6	1.77	0.48
1:CA:612:C:O2	1:CA:629:G:N2	2.47	0.48
2:CB:153:ARG:O	2:CB:154:LEU:C	2.56	0.48
4:CD:74:GLN:O	4:CD:78:LEU:HG	2.14	0.48
13:CM:83:ASP:OD1	19:CS:66:MET:HE2	2.14	0.48
16:CP:4:ILE:HD12	16:CP:4:ILE:N	2.29	0.48
18:CR:85:LEU:HD12	18:CR:86:VAL:H	1.79	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:50:ALA:HA	19:CS:58:VAL:O	2.12	0.48
23:D1:86:SER:C	23:D1:89:GLU:OE2	2.57	0.48
24:D2:26:ARG:HD2	24:D2:29:LYS:HE2	1.96	0.48
26:D4:1:MET:N	36:DG:67:LYS:HZ2	2.04	0.48
28:D6:37:ARG:HB3	31:DA:2344:U:O2'	2.13	0.48
31:DA:286:C:O2'	31:DA:287:C:H5'	2.13	0.48
31:DA:620:G:H8	31:DA:622:G:O6	1.97	0.48
31:DA:945:A:H5"	31:DA:946:G:OP2	2.13	0.48
31:DA:1332:G:N1	31:DA:1609:A:O2'	2.46	0.48
31:DA:1677:A:H2'	31:DA:1678:G:H8	1.78	0.48
31:DA:1850:G:C6	31:DA:1851:U:C4	3.01	0.48
31:DA:2200:C:O2	31:DA:2200:C:H2'	2.14	0.48
31:DA:2273:A:C2'	31:DA:2274:A:H5'	2.44	0.48
31:DA:2314:C:N3	31:DA:2315:G:C8	2.82	0.48
31:DA:2314:C:O2'	31:DA:2315:G:H5'	2.14	0.48
31:DA:2629:A:H2'	31:DA:2629:A:N3	2.29	0.48
33:DD:159:ALA:N	33:DD:161:THR:CG2	2.72	0.48
34:DE:101:ARG:HB3	34:DE:169:ASN:HD22	1.79	0.48
34:DE:179:GLU:HB3	34:DE:181:LEU:CD2	2.44	0.48
39:DN:119:ARG:CG	39:DN:119:ARG:HH11	2.27	0.48
41:DP:16:ARG:HG3	41:DP:17:LYS:H	1.78	0.48
41:DP:16:ARG:CG	41:DP:17:LYS:N	2.75	0.48
46:DU:29:SER:C	46:DU:30:LYS:HD3	2.38	0.48
48:DW:75:TYR:CZ	48:DW:104:THR:HG21	2.48	0.48
49:DX:29:TRP:CE3	49:DX:74:PRO:HB2	2.49	0.48
49:DX:63:LYS:HZ1	49:DX:70:LEU:HD21	1.78	0.48
1:AA:189(C):C:H2'	1:AA:189(D):C:O4'	2.14	0.48
1:AA:364:A:H2'	1:AA:365:U:O2	2.14	0.48
1:AA:410:G:H1'	1:AA:432:A:H61	1.77	0.48
1:AA:1058:G:C6	1:AA:1059:C:C4	3.01	0.48
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.49	0.48
1:AA:1317:C:N4	14:AN:19:ARG:HH21	2.11	0.48
2:AB:142:LEU:O	2:AB:146:GLN:HB2	2.14	0.48
3:AC:61:ALA:O	3:AC:62:ASP:HB2	2.13	0.48
4:AD:79:PHE:C	4:AD:79:PHE:CD2	2.92	0.48
5:AE:27:ARG:HE	5:AE:27:ARG:HB2	1.50	0.48
5:AE:82:VAL:HG21	5:AE:138:ALA:HA	1.94	0.48
6:AF:30:LEU:O	6:AF:35:ALA:HB3	2.13	0.48
16:AP:53:VAL:O	16:AP:57:ARG:CG	2.60	0.48
31:BA:287:C:C4	31:BA:288:C:C5	3.01	0.48
31:BA:465:G:H2'	31:BA:466:A:C8	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:527:C:O4'	31:BA:527:C:O2	2.28	0.48
31:BA:637:A:P	41:BP:116:GLY:HA2	2.52	0.48
31:BA:996:A:O2'	46:BU:92:ARG:HG3	2.13	0.48
31:BA:1366:A:H2'	31:BA:1367:A:O5'	2.14	0.48
31:BA:1528:A:O2'	31:BA:1528(A):A:P	2.71	0.48
31:BA:1666:G:C2'	31:BA:1667:G:H5'	2.44	0.48
31:BA:1820:U:H3'	31:BA:1821:A:H5'	1.96	0.48
31:BA:2056:G:N2	31:BA:2057:A:C1'	2.77	0.48
31:BA:2593:U:H2'	31:BA:2594:C:H6	1.79	0.48
33:BD:115:GLN:HG2	33:BD:116:GLN:O	2.13	0.48
34:BE:179:GLU:HB3	34:BE:181:LEU:CD2	2.44	0.48
36:BG:36:LYS:HD3	36:BG:95:ARG:CZ	2.44	0.48
36:BG:71:THR:HB	36:BG:89:GLY:CA	2.43	0.48
37:BH:54:ARG:HH11	37:BH:65:HIS:CD2	2.32	0.48
39:BN:13:TRP:CZ3	39:BN:130:HIS:HE1	2.26	0.48
39:BN:35:ARG:HB2	39:BN:42:TRP:CH2	2.49	0.48
39:BN:129:PRO:O	39:BN:130:HIS:HB2	2.12	0.48
41:BP:57:THR:HB	41:BP:59:LEU:N	2.28	0.48
41:BP:100:LEU:HD23	41:BP:112:LEU:HD11	1.94	0.48
51:BZ:156:LYS:O	51:BZ:158:PRO:HD3	2.14	0.48
1:CA:21:G:H2'	1:CA:22:G:C8	2.48	0.48
1:CA:184:G:H2'	1:CA:185:A:H8	1.78	0.48
1:CA:603:U:O2'	1:CA:604:G:H5'	2.14	0.48
1:CA:1228:C:H2'	1:CA:1229:A:C8	2.49	0.48
6:CF:63:TYR:O	6:CF:65:VAL:HG13	2.14	0.48
9:CI:105:ASP:CG	9:CI:107:ARG:HD3	2.39	0.48
23:D1:25:LYS:O	23:D1:26:ARG:CB	2.61	0.48
26:D4:29:PRO:C	26:D4:31:ILE:H	2.21	0.48
31:DA:271(Q):G:N2	31:DA:271(R):G:C4	2.82	0.48
31:DA:384:U:O2'	31:DA:385:C:H5'	2.14	0.48
31:DA:639:U:H2'	31:DA:640:C:H6	1.78	0.48
31:DA:707:G:C5	31:DA:708:C:C5	3.01	0.48
31:DA:1717:G:C2	31:DA:1718:G:C8	3.01	0.48
31:DA:1796:U:H4'	33:DD:256:GLY:N	2.28	0.48
31:DA:2460:U:C2	31:DA:2461:C:C6	3.02	0.48
33:DD:246:PRO:HB2	33:DD:255:LYS:HG3	1.96	0.48
34:DE:179:GLU:HB3	34:DE:181:LEU:HD22	1.96	0.48
35:DF:83:PHE:O	35:DF:84:VAL:HG23	2.12	0.48
35:DF:96:ASP:OD1	35:DF:96:ASP:C	2.56	0.48
36:DG:43:LEU:HD22	36:DG:43:LEU:N	2.29	0.48
38:DI:60:GLU:HA	38:DI:63:ALA:HB3	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DI:62:LYS:HE2	38:DI:134:PRO:CG	2.43	0.48
42:DQ:9:TYR:C	42:DQ:10:ARG:HG3	2.39	0.48
46:DU:87:GLY:O	46:DU:88:ILE:HG23	2.13	0.48
47:DV:64:HIS:HB2	47:DV:95:LEU:O	2.14	0.48
48:DW:2:GLU:HA	48:DW:64:MET:HE1	1.95	0.48
49:DX:40:LYS:HG2	49:DX:41:ASN:N	2.29	0.48
1:AA:60:A:P	1:AA:60:A:H8	2.37	0.48
1:AA:402:G:C6	1:AA:403:C:C4	3.02	0.48
1:AA:431:A:H2'	1:AA:432:A:O4'	2.14	0.48
1:AA:577:G:C8	1:AA:816:A:C6	3.02	0.48
1:AA:674:G:O2'	1:AA:675:A:H5'	2.14	0.48
1:AA:1264:C:H2'	1:AA:1265:G:C8	2.47	0.48
1:AA:1321:C:H3'	1:AA:1322:C:H5"	1.95	0.48
2:AB:67:THR:HG22	2:AB:90:MET:HE1	1.96	0.48
2:AB:238:LEU:O	2:AB:240:GLN:N	2.47	0.48
5:AE:12:LEU:C	5:AE:12:LEU:HD22	2.39	0.48
5:AE:127:ASN:O	5:AE:128:PRO:C	2.57	0.48
9:AI:11:LYS:HG2	9:AI:11:LYS:O	2.14	0.48
10:AJ:16:LEU:HD13	10:AJ:16:LEU:O	2.13	0.48
10:AJ:37:PRO:HA	10:AJ:72:VAL:HG22	1.95	0.48
10:AJ:48:THR:HA	10:AJ:62:HIS:CB	2.44	0.48
12:AL:38:THR:CG2	12:AL:39:VAL:N	2.76	0.48
13:AM:115:LYS:O	13:AM:116:THR:C	2.57	0.48
16:AP:22:THR:CG2	16:AP:32:TYR:HA	2.39	0.48
16:AP:27:LYS:O	16:AP:28:ARG:C	2.56	0.48
16:AP:81:ARG:C	16:AP:82:GLN:HE21	2.22	0.48
18:AR:22:VAL:O	18:AR:22:VAL:HG12	2.13	0.48
19:AS:9:VAL:HG12	19:AS:9:VAL:O	2.14	0.48
20:AT:76:ALA:O	20:AT:77:ALA:C	2.55	0.48
23:B1:44:PRO:HA	31:BA:2231:C:OP1	2.13	0.48
27:B5:2:ALA:CA	31:BA:2015:A:H1'	2.37	0.48
29:B7:29:LYS:O	29:B7:30:VAL:C	2.57	0.48
30:B8:22:VAL:HB	30:B8:53:PRO:HB3	1.95	0.48
31:BA:353:G:C2'	31:BA:354:G:O5'	2.61	0.48
31:BA:678:C:H2'	31:BA:679:C:C6	2.49	0.48
31:BA:828:U:C5	31:BA:829:A:N6	2.81	0.48
31:BA:934:G:H2'	31:BA:935:C:H6	1.77	0.48
31:BA:1649:G:C6	31:BA:2009:G:C6	3.02	0.48
31:BA:2286:A:O2'	31:BA:2286:A:H8	1.96	0.48
34:BE:13:ARG:HA	34:BE:21:VAL:O	2.14	0.48
36:BG:64:THR:CG2	36:BG:65:GLY:N	2.77	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BQ:34:LEU:CD1	42:BQ:129:THR:HB	2.41	0.48
49:BX:29:TRP:CE3	49:BX:74:PRO:HB2	2.49	0.48
51:BZ:56:VAL:HA	51:BZ:70:LEU:CD2	2.44	0.48
1:CA:55:A:C4	1:CA:56:U:C6	3.02	0.48
1:CA:155:C:H2'	1:CA:156:G:H8	1.77	0.48
1:CA:675:A:H2'	1:CA:676:A:C8	2.47	0.48
1:CA:782:A:O3'	1:CA:1515:C:H4'	2.13	0.48
1:CA:929:G:H1	1:CA:1388:C:N4	1.99	0.48
1:CA:948:C:C5	13:CM:106:ASN:ND2	2.81	0.48
1:CA:1074:G:C2	1:CA:1102:A:C2	3.02	0.48
1:CA:1418:A:C2	1:CA:1483:A:C2	3.01	0.48
2:CB:114:ARG:HH11	2:CB:118:LEU:HD21	1.79	0.48
2:CB:178:ARG:NH2	8:CH:68:ARG:HH22	2.12	0.48
3:CC:130:VAL:HB	3:CC:157:ILE:HG23	1.94	0.48
10:CJ:90:LEU:N	10:CJ:91:PRO:HD3	2.29	0.48
12:CL:46:LYS:HG2	12:CL:47:LYS:H	1.77	0.48
16:CP:8:ARG:HG2	16:CP:9:PHE:N	2.29	0.48
23:D1:48:LYS:HD3	23:D1:48:LYS:HA	1.52	0.48
31:DA:521:G:H2'	31:DA:522:G:H8	1.78	0.48
31:DA:637:A:OP1	41:DP:133:SER:CB	2.62	0.48
31:DA:947:G:H2'	31:DA:948:G:C8	2.49	0.48
31:DA:1109:C:H5	31:DA:1110:G:C8	2.32	0.48
31:DA:1225:G:OP1	47:DV:88:ARG:HD2	2.14	0.48
31:DA:1510:G:H2'	31:DA:1511:C:H6	1.78	0.48
31:DA:1902:C:OP1	33:DD:242:ARG:HD3	2.13	0.48
31:DA:2299:G:N1	31:DA:2318:G:C8	2.82	0.48
31:DA:2307:G:OP1	31:DA:2307:G:H4'	2.14	0.48
38:DI:107:VAL:CG1	38:DI:108:THR:N	2.76	0.48
42:DQ:20:ALA:C	42:DQ:22:LYS:N	2.72	0.48
45:DT:118:ARG:HA	45:DT:121:ILE:HB	1.95	0.48
47:DV:66:ARG:HD2	47:DV:67:GLY:C	2.39	0.48
49:DX:25:LYS:HG3	49:DX:26:TYR:CD1	2.49	0.48
50:DY:17:SER:HA	50:DY:71:LYS:CD	2.36	0.48
51:DZ:9:TYR:CE2	51:DZ:61:LEU:HD22	2.49	0.48
1:AA:270:A:C6	1:AA:271:C:C4	3.02	0.48
1:AA:461:A:C5	1:AA:471:G:C6	3.02	0.48
1:AA:472:A:C4'	16:AP:82:GLN:HE22	2.27	0.48
1:AA:491:G:H2'	1:AA:492:G:H8	1.77	0.48
1:AA:933:G:N2	1:AA:1385:G:C4	2.82	0.48
1:AA:1221:G:OP1	1:AA:1321:C:N3	2.47	0.48
1:AA:1260:C:H4'	1:AA:1284:C:H5'	1.94	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1493:A:C2'	31:BA:1913:A:N1	2.70	0.48
4:AD:43:HIS:O	4:AD:45:GLN:N	2.46	0.48
8:AH:33:GLU:O	8:AH:34:GLU:C	2.57	0.48
10:AJ:50:ILE:HD13	10:AJ:60:ARG:HD3	1.96	0.48
11:AK:50:TYR:HE1	11:AK:59:TYR:HD2	1.62	0.48
12:AL:38:THR:HG23	12:AL:39:VAL:N	2.29	0.48
13:AM:68:GLY:N	13:AM:71:ARG:HB3	2.28	0.48
16:AP:14:ASN:OD1	16:AP:16:HIS:CE1	2.66	0.48
18:AR:79:LEU:HD23	18:AR:80:PRO:HD2	1.96	0.48
31:BA:250:G:H2'	31:BA:251:A:C8	2.49	0.48
31:BA:303:U:H2'	31:BA:304:G:H8	1.79	0.48
31:BA:720:C:C2'	31:BA:721:C:H5'	2.44	0.48
31:BA:951:C:O2'	31:BA:952:G:H5'	2.14	0.48
31:BA:1043:C:OP2	31:BA:1043:C:C6	2.66	0.48
31:BA:1313:U:C2'	31:BA:1610:A:C2	2.94	0.48
31:BA:2360:A:O2'	31:BA:2361:A:H5"	2.13	0.48
31:BA:2591:C:P	33:BD:239:ARG:HG3	2.54	0.48
35:BF:160:ASN:ND2	35:BF:162:LEU:N	2.61	0.48
36:BG:101:ILE:HG12	36:BG:105:LYS:HE3	1.95	0.48
37:BH:83:TYR:HB2	37:BH:84:SER:H	1.51	0.48
37:BH:153:LYS:HG2	37:BH:154:PRO:N	2.29	0.48
39:BN:104:LYS:HB2	39:BN:117:PHE:CD1	2.49	0.48
41:BP:61:ARG:H	41:BP:61:ARG:HD2	1.79	0.48
41:BP:115:LEU:HA	41:BP:134:ALA:CB	2.37	0.48
42:BQ:20:ALA:HA	42:BQ:98:LYS:HD3	1.95	0.48
42:BQ:104:PHE:HE1	42:BQ:125:LEU:HD11	1.79	0.48
48:BW:2:GLU:HA	48:BW:64:MET:HE1	1.96	0.48
51:BZ:42:VAL:HG13	51:BZ:43:GLU:H	1.79	0.48
1:CA:66:G:C4'	1:CA:173:U:C5	2.97	0.48
1:CA:189(C):C:H2'	1:CA:189(D):C:O4'	2.13	0.48
1:CA:333:G:O2'	1:CA:334:C:H5'	2.14	0.48
1:CA:437:U:H2'	1:CA:438:G:C8	2.49	0.48
1:CA:540:G:O2'	1:CA:541:G:H5'	2.14	0.48
1:CA:865:A:H2	1:CA:918:A:H4'	1.79	0.48
4:CD:9:CYS:HA	4:CD:12:CYS:CB	2.37	0.48
5:CE:31:LEU:HD22	5:CE:43:LEU:HD11	1.96	0.48
9:CI:21:PRO:HA	9:CI:58:ARG:O	2.14	0.48
10:CJ:78:ASN:O	10:CJ:82:ILE:HG12	2.13	0.48
17:CQ:70:ARG:C	17:CQ:71:PHE:CD2	2.92	0.48
20:CT:100:ILE:O	20:CT:102:GLY:N	2.47	0.48
23:D1:65:SER:H	23:D1:67:ILE:HD12	1.72	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:31:GLU:CG	24:D2:37:PHE:HD1	2.27	0.48
24:D2:49:LYS:HD3	31:DA:76:C:H5"	1.94	0.48
26:D4:23:GLU:O	26:D4:24:THR:CB	2.61	0.48
27:D5:52:TYR:O	27:D5:53:ALA:C	2.57	0.48
30:D8:56:GLU:HA	30:D8:59:LYS:HZ1	1.78	0.48
31:DA:265:A:H1'	31:DA:266:G:O4'	2.14	0.48
31:DA:271(H):G:O6	31:DA:271(Q):G:O6	2.32	0.48
31:DA:286:C:H42	31:DA:355:G:H1	1.62	0.48
31:DA:456:C:C5	49:DX:66:LEU:CD2	2.97	0.48
31:DA:562:U:C4	31:DA:2036:C:O4'	2.67	0.48
31:DA:729:G:O5'	33:DD:208:LYS:NZ	2.44	0.48
31:DA:836:G:H2'	31:DA:837:C:H6	1.78	0.48
31:DA:836:G:C5	31:DA:837:C:C5	3.02	0.48
31:DA:1291:C:H2'	31:DA:1292:U:C6	2.49	0.48
31:DA:1323:U:H2'	31:DA:1324:G:H5'	1.95	0.48
31:DA:2243:U:C2'	31:DA:2244:U:H5'	2.43	0.48
31:DA:2352:A:C4	31:DA:2366:A:C2	3.02	0.48
31:DA:2360:A:O2'	31:DA:2361:A:OP2	2.32	0.48
31:DA:2360:A:O2'	31:DA:2361:A:H5"	2.13	0.48
31:DA:2836:U:C4	31:DA:2883:A:N6	2.81	0.48
31:DA:2850:A:H5'	31:DA:2868:A:H2	1.77	0.48
31:DA:2895:U:H5	31:DA:2896:C:C5	2.31	0.48
35:DF:1:MET:O	35:DF:2:LYS:O	2.32	0.48
37:DH:89:ILE:O	37:DH:90:LYS:HB2	2.13	0.48
39:DN:1:MET:HG2	39:DN:2:LYS:N	2.29	0.48
41:DP:14:LYS:O	41:DP:15:ARG:CB	2.61	0.48
49:DX:33:LYS:C	49:DX:35:THR:H	2.20	0.48
1:AA:21:G:H2'	1:AA:22:G:C8	2.49	0.47
1:AA:511:C:C2	1:AA:512:U:C5	3.01	0.47
1:AA:606:G:H5"	1:AA:607:A:H5'	1.96	0.47
1:AA:634:C:O2'	1:AA:635:G:H5'	2.13	0.47
1:AA:687:A:C2	1:AA:704:A:C6	3.02	0.47
1:AA:881:G:P	12:AL:12:ARG:HH22	2.37	0.47
1:AA:921:U:H2'	1:AA:922:G:O4'	2.14	0.47
1:AA:1123:A:O2'	10:AJ:38:ILE:HG22	2.15	0.47
1:AA:1242:C:H5"	21:AU:10:ARG:HH12	1.79	0.47
1:AA:1310:G:N2	1:AA:1328:C:C2	2.82	0.47
1:AA:1368:G:H2'	1:AA:1369:C:H5'	1.96	0.47
2:AB:219:VAL:HA	2:AB:222:ILE:HD12	1.95	0.47
4:AD:146:ILE:N	4:AD:146:ILE:CD1	2.75	0.47
5:AE:110:LEU:O	5:AE:115:VAL:HG23	2.13	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:24:GLU:HG2	6:AF:28:ARG:CZ	2.44	0.47
10:AJ:38:ILE:HD11	10:AJ:71:LEU:HB3	1.94	0.47
16:AP:68:ASP:C	16:AP:70:ALA:H	2.21	0.47
22:B0:51:VAL:HG21	22:B0:79:VAL:O	2.14	0.47
23:B1:51:VAL:HG21	23:B1:67:ILE:HG23	1.96	0.47
27:B5:32:PRO:O	27:B5:33:CYS:CB	2.58	0.47
28:B6:42:TRP:HA	28:B6:42:TRP:HE3	1.78	0.47
30:B8:4:MET:O	30:B8:62:LEU:CD1	2.62	0.47
31:BA:296:C:H2'	31:BA:297:C:H6	1.78	0.47
31:BA:668:G:C3'	31:BA:669:G:H5'	2.44	0.47
31:BA:1047:G:N2	31:BA:1111:A:N6	2.61	0.47
31:BA:1177:A:H5'	31:BA:1178:C:C6	2.49	0.47
31:BA:1902:C:H4'	33:BD:244:ARG:HA	1.96	0.47
31:BA:1952:A:C6	40:BO:22:ILE:CD1	2.96	0.47
31:BA:2199:A:C5'	31:BA:2200:C:OP2	2.61	0.47
31:BA:2759:G:C8	31:BA:2759:G:C5'	2.89	0.47
33:BD:25:THR:HG21	33:BD:82:ILE:N	2.29	0.47
33:BD:248:SER:C	33:BD:250:TRP:N	2.72	0.47
36:BG:86:MET:HB2	36:BG:87:PRO:HD2	1.96	0.47
37:BH:99:VAL:HG12	37:BH:99:VAL:O	2.12	0.47
37:BH:137:ASP:HB3	37:BH:140:LYS:CB	2.44	0.47
37:BH:158:HIS:CD2	37:BH:170:ARG:O	2.66	0.47
38:BI:53:ALA:C	38:BI:55:ALA:H	2.21	0.47
38:BI:68:LEU:C	38:BI:70:GLU:H	2.20	0.47
41:BP:141:ALA:CB	25:D3:1:MET:SD	2.80	0.47
49:BX:21:PHE:CE1	49:BX:26:TYR:CG	3.01	0.47
51:BZ:9:TYR:CE2	51:BZ:61:LEU:HD22	2.49	0.47
51:BZ:51:ALA:O	51:BZ:52:SER:HB3	2.14	0.47
1:CA:159:G:O2'	1:CA:160:A:C8	2.61	0.47
1:CA:432:A:N7	1:CA:433:C:C4	2.82	0.47
1:CA:542:G:C2	1:CA:543:C:C5	3.01	0.47
1:CA:693:G:O2'	7:CG:82:GLY:HA3	2.13	0.47
1:CA:1066:C:C5'	1:CA:1067:A:OP2	2.61	0.47
1:CA:1074:G:C2	1:CA:1075:C:C2	3.02	0.47
1:CA:1156:G:O5'	1:CA:1156:G:H8	1.97	0.47
1:CA:1228:C:H2'	1:CA:1229:A:H8	1.78	0.47
1:CA:1387:G:H2'	1:CA:1387:G:N3	2.29	0.47
3:CC:189:ALA:HB3	3:CC:196:LEU:HB2	1.96	0.47
4:CD:150:GLU:HG2	4:CD:151:LYS:N	2.29	0.47
5:CE:27:ARG:HE	5:CE:27:ARG:HB2	1.51	0.47
9:CI:113:LYS:H	9:CI:119:ALA:HA	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:82:ILE:CD1	15:CO:88:ARG:HG3	2.43	0.47
16:CP:27:LYS:O	16:CP:30:GLY:N	2.47	0.47
20:CT:94:ALA:O	20:CT:95:ALA:HB3	2.14	0.47
22:D0:16:SER:HB3	31:DA:2262:U:OP2	2.14	0.47
23:D1:10:LYS:CG	23:D1:11:ARG:N	2.76	0.47
27:D5:50:GLY:HA3	27:D5:56:LYS:CG	2.43	0.47
31:DA:95:G:N2	31:DA:96:G:H1'	2.29	0.47
31:DA:185:U:H2'	31:DA:186:G:C8	2.49	0.47
31:DA:272(J):C:H2'	31:DA:274:G:OP1	2.14	0.47
31:DA:445:C:OP1	46:DU:2:PRO:HA	2.13	0.47
31:DA:745:G:H5"	31:DA:746:A:OP2	2.13	0.47
31:DA:833:U:H5"	41:DP:48:PRO:HB3	1.94	0.47
31:DA:909:A:C4	31:DA:912:C:C5	3.02	0.47
31:DA:1109:C:C5	31:DA:1110:G:C4	3.02	0.47
31:DA:1198:U:C2	31:DA:1199:U:C5	3.02	0.47
31:DA:1287:A:C5	31:DA:1288:U:C4	3.02	0.47
31:DA:1783:A:C2	31:DA:2587:A:C5	3.01	0.47
31:DA:2016:U:H2'	31:DA:2017:U:C6	2.48	0.47
31:DA:2225:A:C1'	31:DA:2226:C:OP2	2.62	0.47
33:DD:59:LYS:HG3	33:DD:60:ARG:H	1.79	0.47
33:DD:79:VAL:O	33:DD:79:VAL:HG12	2.13	0.47
34:DE:52:LEU:HA	34:DE:53:PRO:HD3	1.60	0.47
38:DI:12:LEU:O	38:DI:12:LEU:HG	2.14	0.47
40:DO:7:TYR:CE1	40:DO:20:MET:HB2	2.49	0.47
41:DP:17:LYS:HG3	41:DP:19:VAL:CG2	2.42	0.47
44:DS:83:LYS:CE	44:DS:105:ALA:HB2	2.44	0.47
44:DS:89:ARG:HE	44:DS:90:GLY:N	2.10	0.47
47:DV:2:PHE:CB	47:DV:42:GLY:CA	2.92	0.47
47:DV:79:VAL:HG23	47:DV:82:ARG:CD	2.44	0.47
48:DW:55:ALA:O	48:DW:56:ALA:O	2.32	0.47
49:DX:39:ILE:HG12	49:DX:40:LYS:N	2.29	0.47
50:DY:68:HIS:HB3	50:DY:71:LYS:HZ1	1.79	0.47
50:DY:95:LYS:HE2	50:DY:101:LYS:CA	2.43	0.47
1:AA:382:A:O2'	1:AA:383:A:H5'	2.14	0.47
1:AA:408:A:C2	1:AA:409:G:N9	2.82	0.47
1:AA:1191:A:H5"	3:AC:4:LYS:NZ	2.28	0.47
1:AA:1201:A:C1'	1:AA:1202:G:OP2	2.57	0.47
1:AA:1310:G:OP1	13:AM:77:ASN:HB3	2.14	0.47
1:AA:1460:A:H2'	1:AA:1461:G:O4'	2.13	0.47
2:AB:194:PRO:O	2:AB:195:ASP:C	2.57	0.47
4:AD:94:LEU:O	4:AD:98:GLU:N	2.45	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:14:LEU:HD22	6:AF:18:GLN:NE2	2.30	0.47
6:AF:78:GLU:O	6:AF:81:ILE:HG13	2.14	0.47
8:AH:6:ILE:N	8:AH:6:ILE:CD1	2.77	0.47
11:AK:106:LYS:HG3	11:AK:106:LYS:O	2.12	0.47
22:B0:53:MET:HE3	22:B0:57:PHE:CD1	2.48	0.47
23:B1:9:GLY:O	23:B1:10:LYS:CB	2.61	0.47
29:B7:5:TRP:CD1	29:B7:7:PRO:HG3	2.49	0.47
29:B7:36:GLN:HG2	29:B7:36:GLN:O	2.14	0.47
30:B8:7:HIS:HD2	41:BP:50:ARG:HD3	1.78	0.47
31:BA:287:C:C2'	31:BA:288:C:O5'	2.62	0.47
31:BA:530:G:C5	31:BA:2022:U:H5"	2.49	0.47
31:BA:729:G:N7	33:BD:208:LYS:HB2	2.30	0.47
31:BA:1784:A:C4'	31:BA:1785:A:H5"	2.44	0.47
31:BA:1973:G:C4	31:BA:1974:C:C5	3.02	0.47
31:BA:2228:G:C5	31:BA:2229:C:C4	3.02	0.47
31:BA:2584:U:C6	31:BA:2585:U:C6	3.02	0.47
31:BA:2859:G:O2'	31:BA:2860:A:P	2.72	0.47
32:BB:13:A:H2'	32:BB:70:C:O2'	2.14	0.47
32:BB:21:G:O6	32:BB:63:G:C4	2.67	0.47
34:BE:119:ARG:HG2	34:BE:160:TYR:CD1	2.49	0.47
37:BH:127:GLU:HG2	37:BH:130:ARG:NH2	2.28	0.47
38:BI:29:TYR:O	38:BI:32:PRO:HD2	2.14	0.47
42:BQ:88:GLY:O	42:BQ:90:VAL:N	2.46	0.47
45:BT:106:SER:HA	45:BT:110:ILE:HG12	1.96	0.47
46:BU:31:SER:C	46:BU:33:ARG:N	2.72	0.47
49:BX:35:THR:CB	49:BX:75:ASP:OD2	2.61	0.47
1:CA:159:G:C4	1:CA:161:A:OP2	2.66	0.47
1:CA:460:G:C6	1:CA:470:C:H5"	2.49	0.47
1:CA:502:G:C6	1:CA:503:C:N3	2.82	0.47
1:CA:511:C:C2	1:CA:512:U:C5	3.01	0.47
1:CA:543:C:C2	1:CA:544:G:C8	3.02	0.47
1:CA:658:G:H2'	1:CA:659:U:H6	1.78	0.47
1:CA:663:A:C2'	1:CA:664:G:H5'	2.44	0.47
1:CA:950:U:H6	13:CM:102:ARG:NH1	2.11	0.47
1:CA:1154:G:H2'	1:CA:1155:G:C8	2.48	0.47
1:CA:1298:C:H4'	1:CA:1299:A:O4'	2.14	0.47
1:CA:1504:G:OP1	1:CA:1507:A:H4'	2.14	0.47
2:CB:238:LEU:O	2:CB:240:GLN:N	2.48	0.47
11:CK:125:PHE:N	11:CK:125:PHE:CD1	2.82	0.47
20:CT:73:HIS:O	20:CT:76:ALA:HB3	2.14	0.47
24:D2:45:SER:HA	24:D2:47:ASN:ND2	2.29	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D7:1:MET:O	29:D7:2:LYS:C	2.57	0.47
31:DA:34:C:H2'	31:DA:35:G:OP1	2.14	0.47
31:DA:272(D):G:H1	31:DA:364:C:H42	1.62	0.47
31:DA:287:C:N3	31:DA:288:C:C6	2.82	0.47
31:DA:528:A:C2	31:DA:2042:A:H2'	2.48	0.47
31:DA:814:C:H5	41:DP:27:HIS:CD2	2.32	0.47
31:DA:1550:C:O2'	31:DA:1551:C:H5'	2.14	0.47
31:DA:1599:C:H2'	31:DA:1599:C:O2	2.13	0.47
31:DA:2821:A:H2'	31:DA:2822:G:C8	2.49	0.47
33:DD:266:SER:C	33:DD:267:SER:O	2.52	0.47
34:DE:48:GLN:HE22	34:DE:64:LYS:HE2	1.79	0.47
34:DE:67:PHE:O	34:DE:69:LYS:N	2.47	0.47
35:DF:132:VAL:O	35:DF:134:GLY:N	2.47	0.47
36:DG:90:LEU:H	36:DG:90:LEU:HD12	1.79	0.47
42:DQ:34:LEU:CD1	42:DQ:129:THR:HB	2.42	0.47
43:DR:67:LEU:O	43:DR:70:LEU:O	2.32	0.47
45:DT:68:TYR:C	45:DT:70:VAL:H	2.22	0.47
46:DU:50:ARG:HG2	46:DU:53:ARG:NH2	2.28	0.47
48:DW:78:GLU:OE2	48:DW:99:ARG:HD3	2.14	0.47
1:AA:19:C:O2'	1:AA:20:U:H5'	2.14	0.47
1:AA:370:C:C2	1:AA:371:G:C8	3.02	0.47
1:AA:830:G:H2'	1:AA:831:U:O4'	2.14	0.47
1:AA:832:C:H42	1:AA:854:G:H1	1.62	0.47
2:AB:19:HIS:CG	2:AB:20:GLU:H	2.31	0.47
2:AB:41:ILE:HD12	2:AB:41:ILE:N	2.29	0.47
2:AB:98:LEU:CB	2:AB:101:MET:HE3	2.39	0.47
3:AC:73:PRO:HA	3:AC:76:VAL:CG1	2.44	0.47
5:AE:43:LEU:HD21	5:AE:132:ALA:HB1	1.96	0.47
7:AG:115:ARG:O	7:AG:119:ARG:HG3	2.14	0.47
9:AI:40:LEU:HD11	9:AI:70:LYS:CG	2.44	0.47
13:AM:91:ARG:HD3	19:AS:81:ARG:HH21	1.78	0.47
22:B0:12:ASN:ND2	31:BA:2277:G:H3'	2.28	0.47
24:B2:23:LYS:HB2	49:BX:5:TYR:CE1	2.49	0.47
26:B4:5:ILE:C	36:BG:67:LYS:HG2	2.39	0.47
26:B4:29:PRO:C	26:B4:31:ILE:H	2.22	0.47
28:B6:9:LEU:C	28:B6:9:LEU:HD13	2.39	0.47
28:B6:10:LEU:N	28:B6:10:LEU:HD22	2.28	0.47
31:BA:142(A):C:O2'	31:BA:143:G:H5'	2.13	0.47
31:BA:265:A:H1'	31:BA:266:G:O4'	2.13	0.47
31:BA:750:A:C4	31:BA:753:C:H1'	2.48	0.47
31:BA:1175:U:H4'	31:BA:1176:G:H2'	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2681:C:O2	31:BA:2681:C:H2'	2.15	0.47
31:BA:2876:G:H4'	45:BT:3:ARG:CD	2.44	0.47
33:BD:27:THR:HG22	33:BD:28:GLU:H	1.73	0.47
34:BE:7:VAL:HG21	45:BT:1:MET:CE	2.39	0.47
38:BI:22:LYS:O	38:BI:23:PRO:C	2.58	0.47
41:BP:17:LYS:HG3	41:BP:19:VAL:CG2	2.38	0.47
41:BP:21:ARG:O	41:BP:23:PRO:HD3	2.14	0.47
44:BS:61:ASN:ND2	44:BS:64:GLU:OE2	2.48	0.47
46:BU:29:SER:C	46:BU:30:LYS:HD3	2.39	0.47
46:BU:69:CYS:C	46:BU:71:GLN:N	2.70	0.47
47:BV:69:LYS:O	47:BV:70:ILE:CG2	2.60	0.47
49:BX:65:ARG:NE	49:BX:65:ARG:HA	2.29	0.47
50:BY:96:ILE:HB	50:BY:99:CYS:C	2.38	0.47
1:CA:427:U:OP1	4:CD:13:ARG:NH2	2.47	0.47
1:CA:520:A:C2	1:CA:536:C:O2	2.67	0.47
1:CA:564:C:H2'	1:CA:565:U:H5'	1.96	0.47
1:CA:631:G:H5"	1:CA:632:A:OP1	2.14	0.47
1:CA:685:G:O2'	1:CA:686:U:C5'	2.53	0.47
1:CA:749:C:HO2'	1:CA:750:G:H5'	1.79	0.47
1:CA:892:A:C6	1:CA:893:C:C4	3.02	0.47
2:CB:168:THR:HG23	2:CB:192:SER:HA	1.96	0.47
2:CB:219:VAL:HA	2:CB:222:ILE:HD12	1.96	0.47
5:CE:78:HIS:HE1	5:CE:142:LEU:HA	1.79	0.47
8:CH:37:ARG:HG2	8:CH:37:ARG:O	2.14	0.47
8:CH:64:LYS:CG	8:CH:79:VAL:HG21	2.44	0.47
12:CL:28:LYS:O	12:CL:29:GLY:C	2.57	0.47
14:CN:12:ARG:C	14:CN:14:PRO:CD	2.87	0.47
19:CS:40:ILE:HB	19:CS:67:VAL:O	2.14	0.47
22:D0:55:ARG:HG3	31:DA:2365:G:OP1	2.13	0.47
24:D2:29:LYS:C	24:D2:33:MET:SD	2.97	0.47
31:DA:68:G:H2'	31:DA:69:C:C6	2.49	0.47
31:DA:1177:A:H5'	31:DA:1178:C:C6	2.49	0.47
31:DA:1278:A:O2'	31:DA:1279:G:H5'	2.14	0.47
31:DA:1820:U:H3'	31:DA:1821:A:H5'	1.95	0.47
31:DA:1839:G:N3	31:DA:1839:G:H2'	2.28	0.47
31:DA:1988:C:H2'	31:DA:1989:G:O4'	2.14	0.47
31:DA:2703:C:H2'	31:DA:2704:C:H6	1.78	0.47
31:DA:2853:C:O2'	31:DA:2854:G:H5'	2.14	0.47
31:DA:2865:U:C4	31:DA:2866:U:C4	3.02	0.47
33:DD:125:ILE:O	33:DD:125:ILE:CG2	2.57	0.47
33:DD:149:PRO:O	33:DD:150:LYS:HB2	2.13	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DI:99:GLU:O	38:DI:102:SER:HB3	2.15	0.47
39:DN:27:ALA:HB3	39:DN:106:MET:HE2	1.95	0.47
41:DP:110:TYR:O	41:DP:111:ARG:C	2.56	0.47
42:DQ:106:VAL:HG21	42:DQ:114:ALA:HB1	1.96	0.47
45:DT:85:LYS:O	45:DT:85:LYS:HG2	2.14	0.47
46:DU:101:ARG:C	46:DU:102:GLU:HG2	2.38	0.47
51:DZ:150:LEU:CA	51:DZ:151:HIS:HD2	2.27	0.47
51:DZ:165:VAL:HG12	51:DZ:166:SER:HG	1.79	0.47
1:AA:55:A:C8	1:AA:56:U:H5	2.32	0.47
1:AA:358:U:H2'	1:AA:359:U:C6	2.49	0.47
1:AA:499:A:H4'	1:AA:500:G:H5'	1.97	0.47
1:AA:533:A:C4'	1:AA:534:U:OP1	2.62	0.47
1:AA:556:C:O2'	1:AA:557:G:H5'	2.15	0.47
1:AA:568:G:O6	12:AL:5:PRO:HD3	2.15	0.47
1:AA:642:A:N7	8:AH:115:SER:HA	2.30	0.47
1:AA:865:A:H5'	1:AA:1078:U:O4	2.14	0.47
1:AA:1238:A:N6	1:AA:1299:A:H62	2.11	0.47
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.48	0.47
2:AB:71:VAL:HB	2:AB:164:VAL:HG22	1.95	0.47
3:AC:106:VAL:HG12	3:AC:108:ASN:H	1.80	0.47
4:AD:62:GLN:HA	4:AD:62:GLN:HE21	1.77	0.47
6:AF:33:TYR:O	6:AF:34:GLY:C	2.57	0.47
7:AG:29:LYS:O	7:AG:105:VAL:HG11	2.14	0.47
7:AG:153:HIS:HE1	11:AK:57:THR:HG23	1.78	0.47
8:AH:83:ILE:O	8:AH:83:ILE:HG23	2.13	0.47
9:AI:21:PRO:HA	9:AI:58:ARG:O	2.14	0.47
11:AK:24:SER:HB3	11:AK:27:ASN:O	2.15	0.47
16:AP:43:LYS:C	16:AP:45:THR:N	2.72	0.47
18:AR:74:ARG:HG3	18:AR:79:LEU:HB3	1.96	0.47
28:B6:9:LEU:HD22	28:B6:9:LEU:C	2.32	0.47
28:B6:16:CYS:O	28:B6:17:LYS:CB	2.59	0.47
30:B8:61:LEU:HD13	31:BA:593:G:O2'	2.14	0.47
30:B8:62:LEU:N	30:B8:63:PRO:HD2	2.30	0.47
31:BA:150:C:H2'	31:BA:151:C:C6	2.50	0.47
31:BA:185:U:H2'	31:BA:186:G:C8	2.50	0.47
31:BA:271(H):G:O6	31:BA:271(Q):G:O6	2.32	0.47
31:BA:721:C:H2'	31:BA:722:A:H8	1.80	0.47
31:BA:1245:G:OP1	41:BP:16:ARG:HG2	2.15	0.47
31:BA:1629:U:O2'	31:BA:1630:G:H5'	2.14	0.47
31:BA:1668:A:H4'	31:BA:1669:A:O5'	2.14	0.47
31:BA:1711:C:H2'	31:BA:1712:C:H6	1.80	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1741:A:N7	31:BA:1742:G:C2	2.82	0.47
31:BA:1970:A:H5"	31:BA:1971:A:OP1	2.13	0.47
31:BA:2027:G:C5	31:BA:2028:U:C5	3.03	0.47
31:BA:2629:A:H2'	31:BA:2629:A:N3	2.29	0.47
33:BD:121:PRO:HB3	33:BD:135:PHE:CD1	2.49	0.47
33:BD:223:GLY:HA3	33:BD:231:HIS:CE1	2.49	0.47
34:BE:14:ILE:HG12	34:BE:21:VAL:HG22	1.96	0.47
34:BE:48:GLN:HE22	34:BE:64:LYS:HE2	1.79	0.47
35:BF:117:ARG:HH21	35:BF:187:VAL:HA	1.79	0.47
36:BG:16:ARG:HH11	36:BG:31:VAL:HG21	1.77	0.47
36:BG:129:GLY:C	36:BG:130:ASN:CG	2.81	0.47
37:BH:20:ALA:HB1	37:BH:21:PRO:CD	2.36	0.47
37:BH:46:GLU:O	37:BH:47:GLU:CB	2.62	0.47
37:BH:152:ARG:HD2	37:BH:152:ARG:HA	1.74	0.47
42:BQ:30:GLY:HA3	42:BQ:107:ALA:HB2	1.97	0.47
42:BQ:72:LYS:HB3	42:BQ:94:VAL:HG23	1.96	0.47
44:BS:28:VAL:O	44:BS:29:PHE:CB	2.62	0.47
44:BS:32:LEU:O	44:BS:62:LYS:HE2	2.15	0.47
44:BS:91:PRO:O	44:BS:93:LYS:N	2.47	0.47
45:BT:64:ARG:NH1	45:BT:103:ARG:HA	2.29	0.47
48:BW:66:GLU:O	48:BW:68:ARG:N	2.48	0.47
48:BW:86:LEU:HD12	48:BW:87:PRO:HD2	1.96	0.47
1:CA:15:G:C4	1:CA:16:A:C8	3.01	0.47
1:CA:430:A:C2'	1:CA:431:A:H5'	2.45	0.47
1:CA:1486:G:H2'	1:CA:1487:G:C1'	2.45	0.47
2:CB:19:HIS:CG	2:CB:20:GLU:H	2.31	0.47
2:CB:28:PHE:HD1	2:CB:190:THR:HG22	1.80	0.47
2:CB:114:ARG:HA	2:CB:117:GLU:HB2	1.95	0.47
6:CF:3:ARG:HD3	6:CF:38:GLU:OE1	2.14	0.47
12:CL:41:ARG:HG2	12:CL:42:THR:H	1.80	0.47
12:CL:55:VAL:HG12	12:CL:68:ALA:O	2.13	0.47
13:CM:3:ARG:NH2	36:DG:139:LEU:HD13	2.10	0.47
13:CM:68:GLY:N	13:CM:71:ARG:HB3	2.29	0.47
16:CP:81:ARG:C	16:CP:82:GLN:HE21	2.22	0.47
28:D6:39:TYR:HB3	28:D6:49:HIS:HD1	1.80	0.47
31:DA:27:G:C2	31:DA:512:G:N3	2.83	0.47
31:DA:271(J):C:C3'	31:DA:271(K):U:H5"	2.43	0.47
31:DA:280:C:H2'	31:DA:281:G:C5'	2.45	0.47
31:DA:466:A:C2'	31:DA:467:G:H5'	2.45	0.47
31:DA:705:A:O2'	31:DA:706:A:H5'	2.15	0.47
31:DA:708:C:N4	31:DA:723:G:H1	2.12	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:794:G:H2'	31:DA:795:C:C6	2.49	0.47
31:DA:930:U:O2	31:DA:930:U:O4'	2.30	0.47
31:DA:945:A:H5"	31:DA:946:G:P	2.55	0.47
31:DA:996:A:C2	31:DA:997:G:C8	3.02	0.47
31:DA:1021:A:H2'	31:DA:1023:U:H5'	1.96	0.47
31:DA:1021:A:N6	31:DA:1141:U:H3	2.07	0.47
31:DA:1464:C:C2'	31:DA:1528:A:H8	2.27	0.47
31:DA:2023:G:H4'	31:DA:2617:C:O3'	2.15	0.47
31:DA:2286:A:O2'	31:DA:2286:A:H8	1.96	0.47
34:DE:13:ARG:HA	34:DE:21:VAL:O	2.14	0.47
37:DH:83:TYR:CD1	37:DH:83:TYR:N	2.81	0.47
38:DI:88:ILE:CG2	38:DI:89:TYR:N	2.78	0.47
39:DN:77:GLY:O	39:DN:78:TYR:HB3	2.13	0.47
39:DN:131:GLN:CD	39:DN:134:ARG:CB	2.87	0.47
40:DO:6:THR:HG22	40:DO:7:TYR:N	2.29	0.47
43:DR:55:ALA:HA	43:DR:80:PHE:CZ	2.49	0.47
46:DU:25:TRP:CD1	46:DU:26:GLY:N	2.82	0.47
46:DU:59:ARG:O	46:DU:60:LEU:C	2.57	0.47
50:DY:66:PRO:O	50:DY:67:LEU:CB	2.62	0.47
51:DZ:99:TYR:HB3	51:DZ:123:ASP:OD1	2.15	0.47
1:AA:23:C:OP2	1:AA:561:U:N3	2.47	0.47
1:AA:130:A:N3	1:AA:263:A:O2'	2.42	0.47
1:AA:342:C:H2'	1:AA:343:U:O4'	2.14	0.47
1:AA:410:G:OP2	4:AD:25:ARG:HG3	2.15	0.47
1:AA:832:C:N4	1:AA:854:G:H1	2.12	0.47
1:AA:1077:G:C2	1:AA:1081:G:C6	3.03	0.47
1:AA:1298:C:C5	7:AG:114:ARG:CZ	2.97	0.47
1:AA:1410:G:O2'	1:AA:1411:C:H5'	2.14	0.47
1:AA:1481:U:H2'	1:AA:1482:G:H8	1.79	0.47
2:AB:35:GLU:HA	2:AB:39:ILE:O	2.15	0.47
5:AE:57:LYS:O	5:AE:61:TYR:CD2	2.63	0.47
6:AF:61:LEU:HB3	6:AF:63:TYR:CE2	2.50	0.47
8:AH:6:ILE:H	8:AH:6:ILE:CD1	2.26	0.47
9:AI:3:GLN:HB3	9:AI:20:ARG:NH1	2.28	0.47
12:AL:28:LYS:HE3	12:AL:33:ARG:HH12	1.78	0.47
12:AL:90:VAL:O	12:AL:90:VAL:HG12	2.14	0.47
18:AR:85:LEU:HD12	18:AR:86:VAL:H	1.79	0.47
20:AT:41:ILE:H	20:AT:41:ILE:HG13	1.49	0.47
22:B0:84:LEU:H	22:B0:84:LEU:HD12	1.79	0.47
23:B1:14:VAL:O	23:B1:46:LEU:HD23	2.14	0.47
23:B1:67:ILE:O	23:B1:70:VAL:HB	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B1:87:PRO:HB2	23:B1:91:LYS:CE	2.45	0.47
30:B8:23:VAL:HG13	30:B8:46:ARG:HB3	1.97	0.47
30:B8:43:GLN:C	30:B8:44:LYS:HD2	2.40	0.47
31:BA:298:G:H5"	31:BA:299:A:OP1	2.15	0.47
31:BA:309:G:O3'	50:BY:18:GLY:HA2	2.14	0.47
31:BA:389:G:C2	41:BP:71:VAL:HG12	2.48	0.47
31:BA:913:U:H4'	31:BA:914:C:OP1	2.15	0.47
31:BA:1252:G:C2	31:BA:1253:A:C2	3.03	0.47
31:BA:1479:G:C6	31:BA:1480:G:C5	3.02	0.47
31:BA:1748:G:O2'	31:BA:1749:A:H5'	2.15	0.47
31:BA:1779:U:C2	31:BA:1783:A:N7	2.83	0.47
31:BA:2314:C:O2	31:BA:2314:C:H2'	2.14	0.47
32:BB:41:U:O4	36:BG:70:VAL:O	2.32	0.47
33:BD:34:VAL:O	33:BD:34:VAL:HG13	2.15	0.47
33:BD:44:ASN:OD1	33:BD:44:ASN:N	2.48	0.47
34:BE:65:GLY:O	34:BE:67:PHE:N	2.47	0.47
34:BE:167:VAL:HG11	34:BE:189:PRO:HD3	1.97	0.47
35:BF:102:PRO:HB2	35:BF:105:VAL:HG23	1.96	0.47
36:BG:63:ILE:HD13	36:BG:141:PHE:CE2	2.50	0.47
36:BG:148:MET:HA	36:BG:148:MET:HE3	1.96	0.47
36:BG:153:ARG:HB3	36:BG:153:ARG:NH1	2.29	0.47
38:BI:107:VAL:HG12	38:BI:108:THR:N	2.29	0.47
38:BI:117:GLU:HG3	38:BI:118:LYS:H	1.80	0.47
39:BN:1:MET:HG2	39:BN:2:LYS:N	2.28	0.47
42:BQ:23:GLY:O	42:BQ:99:PRO:O	2.31	0.47
43:BR:13:HIS:HE1	43:BR:15:SER:OG	1.97	0.47
44:BS:86:ALA:O	44:BS:87:PHE:O	2.33	0.47
45:BT:108:ARG:HG3	45:BT:109:GLU:N	2.28	0.47
51:BZ:121:HIS:HD2	51:BZ:123:ASP:O	1.97	0.47
1:CA:222:U:H2'	1:CA:223:U:C6	2.48	0.47
1:CA:410:G:H1'	1:CA:432:A:H61	1.79	0.47
1:CA:491:G:C2	1:CA:492:G:C4	3.02	0.47
1:CA:520:A:H2	1:CA:536:C:O2	1.98	0.47
1:CA:579:G:H2'	1:CA:580:U:H6	1.80	0.47
1:CA:658:G:C5	1:CA:659:U:H5	2.32	0.47
1:CA:658:G:N3	1:CA:659:U:C6	2.83	0.47
1:CA:763:G:C5	1:CA:764:C:C5	3.02	0.47
1:CA:1064:G:C1'	1:CA:1065:U:OP2	2.62	0.47
6:CF:22:GLU:OE1	6:CF:84:ASN:HB2	2.14	0.47
10:CJ:37:PRO:HA	10:CJ:72:VAL:HG22	1.95	0.47
12:CL:87:GLY:H	12:CL:99:HIS:H	1.62	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:65:ILE:HD12	17:CQ:65:ILE:N	2.29	0.47
19:CS:51:VAL:HG21	19:CS:71:LEU:HB3	1.95	0.47
23:D1:10:LYS:HG3	23:D1:11:ARG:N	2.29	0.47
27:D5:40:LYS:HZ3	27:D5:46:CYS:C	2.22	0.47
30:D8:27:THR:HA	41:DP:62:LEU:CD1	2.44	0.47
31:DA:412:A:N7	31:DA:2411:A:H2	2.13	0.47
31:DA:536:A:H2'	31:DA:537:C:O5'	2.14	0.47
31:DA:721:C:H2'	31:DA:722:A:H8	1.80	0.47
31:DA:744:G:C2'	31:DA:745:G:O5'	2.62	0.47
31:DA:892:G:H3'	31:DA:892:G:N3	2.30	0.47
31:DA:958:U:O2'	31:DA:959:A:OP1	2.32	0.47
31:DA:1689:A:H62	31:DA:1698:A:H2	1.62	0.47
31:DA:2400:G:H2'	31:DA:2400:G:N3	2.29	0.47
31:DA:2406:U:C4	41:DP:72:PRO:HD2	2.49	0.47
31:DA:2464:C:O2'	31:DA:2465:C:H5"	2.14	0.47
33:DD:92:ILE:HD13	33:DD:104:TYR:CE2	2.49	0.47
34:DE:59:VAL:HG22	34:DE:59:VAL:O	2.14	0.47
34:DE:201:THR:HG22	34:DE:203:LYS:N	2.26	0.47
35:DF:18:ARG:CG	35:DF:19:GLU:H	2.10	0.47
37:DH:85:LYS:O	37:DH:85:LYS:HD3	2.14	0.47
38:DI:22:LYS:O	38:DI:23:PRO:C	2.55	0.47
38:DI:71:ILE:HG13	38:DI:72:LEU:HD23	1.97	0.47
39:DN:131:GLN:OE1	39:DN:134:ARG:HB3	2.13	0.47
41:DP:32:THR:O	41:DP:36:LYS:HB2	2.14	0.47
42:DQ:140:ALA:C	51:DZ:53:ILE:HB	2.40	0.47
50:DY:20:TYR:N	50:DY:20:TYR:CD1	2.81	0.47
51:DZ:45:ASP:O	51:DZ:46:LYS:C	2.58	0.47
51:DZ:151:HIS:O	51:DZ:152:ALA:C	2.57	0.47
1:AA:17:U:H1'	1:AA:1080:A:H1'	1.96	0.47
1:AA:80:G:N1	1:AA:89:C:N4	2.60	0.47
1:AA:437:U:O3'	4:AD:125:HIS:NE2	2.48	0.47
1:AA:683:G:C2	1:AA:684:A:C4	3.03	0.47
1:AA:758:G:H2'	1:AA:759:A:OP2	2.15	0.47
1:AA:892:A:C6	1:AA:893:C:C4	3.02	0.47
1:AA:1226:C:OP1	13:AM:91:ARG:NH1	2.48	0.47
1:AA:1469:G:H2'	1:AA:1470:G:C8	2.48	0.47
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.49	0.47
3:AC:138:VAL:HG22	3:AC:151:VAL:HG23	1.96	0.47
4:AD:148:VAL:HG12	4:AD:152:SER:HB2	1.96	0.47
8:AH:8:ASP:O	8:AH:9:MET:C	2.56	0.47
10:AJ:90:LEU:N	10:AJ:91:PRO:HD3	2.29	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B1:70:VAL:O	23:B1:73:LEU:HB2	2.15	0.47
27:B5:47:PRO:C	27:B5:48:GLU:OE2	2.58	0.47
27:B5:51:TYR:CD2	27:B5:52:TYR:OH	2.67	0.47
31:BA:271(E):U:H2'	31:BA:271(F):C:H6	1.78	0.47
31:BA:286:C:O2'	31:BA:287:C:H5'	2.13	0.47
31:BA:466:A:H2'	31:BA:467:G:H5'	1.97	0.47
31:BA:528:A:H2	31:BA:2043:C:C5'	2.27	0.47
31:BA:570:G:H2'	31:BA:2030:A:C5	2.50	0.47
31:BA:1002:G:C2'	31:BA:1003:G:O5'	2.63	0.47
31:BA:1497:U:H3	31:BA:1578:U:P	2.37	0.47
31:BA:2102:U:C6	31:BA:2187:G:O6	2.67	0.47
31:BA:2473:U:C2	31:BA:2474:C:C6	3.03	0.47
31:BA:2639:A:C2'	31:BA:2640:G:H5'	2.44	0.47
32:BB:80:U:H2'	32:BB:81:G:H21	1.79	0.47
33:BD:224:ALA:O	33:BD:225:ALA:HB2	2.14	0.47
42:BQ:140:ALA:HA	51:BZ:99:TYR:HD2	1.71	0.47
43:BR:21:TYR:CZ	43:BR:43:GLU:HG2	2.49	0.47
43:BR:55:ALA:CB	43:BR:79:LEU:HD13	2.40	0.47
45:BT:31:SER:OG	45:BT:43:GLN:HB3	2.14	0.47
46:BU:8:VAL:HG22	46:BU:11:ARG:HH21	1.80	0.47
46:BU:61:TRP:O	46:BU:62:ILE:C	2.56	0.47
46:BU:83:LEU:HB3	46:BU:88:ILE:CD1	2.44	0.47
50:BY:45:VAL:CG1	50:BY:62:GLU:OE2	2.62	0.47
51:BZ:77:ASP:O	51:BZ:77:ASP:CG	2.58	0.47
1:CA:66:G:C2	1:CA:67:C:C6	3.03	0.47
1:CA:189(A):C:O2'	1:CA:189(B):C:H5'	2.14	0.47
1:CA:448:A:H62	1:CA:486:U:H3	1.63	0.47
1:CA:495:A:H4'	1:CA:496:A:OP1	2.14	0.47
1:CA:664:G:N2	1:CA:741:G:H1	2.11	0.47
1:CA:839:U:OP2	1:CA:840:C:H5	1.97	0.47
1:CA:1317:C:N4	14:CN:19:ARG:HH21	2.12	0.47
2:CB:218:ALA:O	2:CB:222:ILE:HG13	2.14	0.47
5:CE:41:VAL:CG1	5:CE:113:ALA:HA	2.45	0.47
10:CJ:33:GLN:H	10:CJ:75:ILE:HD11	1.78	0.47
12:CL:70:ILE:HD12	12:CL:70:ILE:N	2.30	0.47
22:D0:20:ARG:NE	31:DA:2271:G:H5"	2.29	0.47
30:D8:61:LEU:N	30:D8:63:PRO:HD2	2.29	0.47
31:DA:142:A:O2'	31:DA:1407:C:H2'	2.15	0.47
31:DA:292:C:O2'	31:DA:293:U:H5'	2.15	0.47
31:DA:315:G:H2'	31:DA:316:C:C6	2.49	0.47
31:DA:893:C:H2'	31:DA:894:C:O5'	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:993:G:N3	47:DV:91:TYR:CE1	2.83	0.47
31:DA:1043:C:OP2	31:DA:1043:C:C6	2.67	0.47
31:DA:1282:U:H2'	31:DA:1283:G:O4'	2.14	0.47
31:DA:2012:G:O3'	48:DW:96:ILE:HG12	2.14	0.47
31:DA:2074:U:O2'	31:DA:2075:U:H5'	2.14	0.47
31:DA:2200:C:H5'	31:DA:2201:C:OP2	2.13	0.47
31:DA:2274:A:C5	31:DA:2276:G:C8	3.01	0.47
31:DA:2314:C:O2	31:DA:2314:C:H2'	2.14	0.47
32:DB:21:G:O2'	32:DB:22:U:C5'	2.63	0.47
33:DD:118:VAL:CG2	33:DD:119:ALA:N	2.77	0.47
33:DD:133:LEU:HD22	33:DD:165:ILE:CD1	2.45	0.47
34:DE:10:GLY:CA	45:DT:8:LYS:HE3	2.45	0.47
36:DG:102:PHE:CE2	36:DG:141:PHE:CE1	3.01	0.47
39:DN:125:GLY:HA2	39:DN:126:PRO:O	2.14	0.47
41:DP:35:HIS:O	41:DP:36:LYS:CG	2.62	0.47
42:DQ:20:ALA:HA	42:DQ:98:LYS:HB3	1.96	0.47
42:DQ:72:LYS:HA	42:DQ:73:PRO:HD3	1.79	0.47
42:DQ:86:GLY:C	42:DQ:88:GLY:N	2.69	0.47
43:DR:52:ILE:HG21	43:DR:94:TYR:CD1	2.50	0.47
46:DU:92:ARG:CB	47:DV:11:GLN:NE2	2.73	0.47
1:AA:520:A:H2	1:AA:536:C:O2	1.98	0.47
1:AA:585:G:C4'	12:AL:8:ASN:ND2	2.67	0.47
1:AA:628:G:O2'	1:AA:629:G:H5'	2.14	0.47
1:AA:729:A:H2'	1:AA:730:G:H8	1.80	0.47
1:AA:805:C:H2'	1:AA:806:C:H6	1.79	0.47
1:AA:977:A:H8	1:AA:1223:C:N3	2.12	0.47
1:AA:979:C:H3'	1:AA:980:C:H5"	1.95	0.47
1:AA:1298:C:H4'	1:AA:1299:A:O4'	2.14	0.47
1:AA:1330:U:C5'	1:AA:1331:G:O5'	2.63	0.47
1:AA:1418:A:H1'	31:BA:1959:G:O4'	2.13	0.47
1:AA:1503:A:O2'	1:AA:1504:G:C5'	2.62	0.47
2:AB:19:HIS:O	2:AB:20:GLU:C	2.58	0.47
2:AB:79:ASP:O	2:AB:81:VAL:N	2.48	0.47
2:AB:116:GLU:HA	2:AB:119:GLU:HB2	1.97	0.47
2:AB:217:ARG:HA	2:AB:220:ASP:HB2	1.96	0.47
3:AC:16:ARG:HA	3:AC:16:ARG:HH11	1.80	0.47
3:AC:29:TYR:OH	14:AN:54:PRO:HD2	2.14	0.47
4:AD:3:ARG:CD	4:AD:5:ILE:HD11	2.44	0.47
4:AD:109:GLY:O	4:AD:110:PHE:C	2.57	0.47
5:AE:45:PHE:CE2	5:AE:47:LYS:HD2	2.49	0.47
8:AH:120:THR:HG23	8:AH:123:GLU:CD	2.39	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:6:THR:H	12:AL:9:GLN:NE2	2.11	0.47
12:AL:40:VAL:HG11	12:AL:77:LEU:O	2.14	0.47
16:AP:53:VAL:CG1	16:AP:79:VAL:HG22	2.44	0.47
20:AT:55:ILE:O	20:AT:56:MET:C	2.57	0.47
21:AU:2:GLY:C	21:AU:4:GLY:H	2.21	0.47
24:B2:43:GLN:O	24:B2:46:GLN:HB2	2.15	0.47
27:B5:8:LYS:HD2	31:BA:2056:G:O2'	2.15	0.47
27:B5:55:ARG:HD2	27:B5:56:LYS:H	1.79	0.47
31:BA:142:A:N6	31:BA:1596:A:H5'	2.30	0.47
31:BA:142:A:H5"	31:BA:142(A):C:C5	2.49	0.47
31:BA:572:A:H2'	31:BA:573:G:O4'	2.14	0.47
31:BA:1411:C:O2'	31:BA:1412:A:H5'	2.15	0.47
31:BA:1465:G:C2'	31:BA:1466:G:O5'	2.63	0.47
31:BA:1586:A:C2	31:BA:1587:A:C5	3.02	0.47
31:BA:1591:G:C5'	31:BA:1591:G:H8	2.27	0.47
31:BA:1635:G:H2'	31:BA:1636:C:H6	1.79	0.47
31:BA:1988:C:H2'	31:BA:1989:G:O4'	2.14	0.47
31:BA:2103:C:O2	31:BA:2187:G:N1	2.47	0.47
31:BA:2293:C:H2'	31:BA:2294:C:O4'	2.15	0.47
31:BA:2302:G:H21	36:BG:128:ARG:CB	2.27	0.47
31:BA:2470:G:C2	31:BA:2471:C:C6	3.02	0.47
31:BA:2472:G:C5'	31:BA:2472:G:C8	2.97	0.47
31:BA:2564:A:C6	31:BA:2565:A:N1	2.83	0.47
31:BA:2648:C:H2'	31:BA:2649:U:H6	1.80	0.47
31:BA:2747:G:C2	31:BA:2756:U:C5	3.02	0.47
32:BB:87:G:H3'	32:BB:88:C:C5'	2.42	0.47
33:BD:61:LEU:HD13	33:BD:61:LEU:HA	1.74	0.47
33:BD:267:SER:O	33:BD:269:PHE:N	2.46	0.47
34:BE:6:GLY:HA2	34:BE:51:PHE:CZ	2.50	0.47
34:BE:195:LEU:HG	34:BE:196:VAL:N	2.28	0.47
37:BH:83:TYR:N	37:BH:83:TYR:CD1	2.83	0.47
38:BI:56:LYS:NZ	38:BI:57:ARG:HA	2.29	0.47
41:BP:48:PRO:HG2	41:BP:49:ARG:N	2.30	0.47
42:BQ:14:ARG:HG2	42:BQ:41:TRP:HH2	1.80	0.47
42:BQ:35:VAL:CG1	42:BQ:130:LYS:HB3	2.43	0.47
42:BQ:68:ILE:HD13	42:BQ:103:MET:HB3	1.97	0.47
43:BR:55:ALA:HA	43:BR:80:PHE:CZ	2.49	0.47
43:BR:67:LEU:O	43:BR:70:LEU:O	2.33	0.47
43:BR:100:LEU:HD22	43:BR:100:LEU:H	1.79	0.47
44:BS:13:ARG:HG3	44:BS:13:ARG:HH11	1.78	0.47
44:BS:81:GLY:O	44:BS:82:ILE:C	2.58	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BS:89:ARG:HE	44:BS:90:GLY:N	2.11	0.47
44:BS:105:ALA:C	44:BS:107:GLU:N	2.72	0.47
46:BU:87:GLY:O	46:BU:88:ILE:HG23	2.15	0.47
47:BV:89:GLN:OE1	47:BV:91:TYR:HD1	1.97	0.47
49:BX:9:LEU:HD12	49:BX:30:VAL:C	2.38	0.47
50:BY:20:TYR:CD2	50:BY:41:GLY:HA2	2.50	0.47
51:BZ:119:GLU:O	51:BZ:121:HIS:N	2.48	0.47
1:CA:191:G:H1'	20:CT:105:SER:HA	1.95	0.47
1:CA:224:C:H2'	1:CA:225:C:C6	2.49	0.47
1:CA:286:G:C6	1:CA:287:U:C4	3.03	0.47
1:CA:357:G:C2	1:CA:358:U:C5	3.03	0.47
1:CA:376:G:O3'	16:CP:5:ARG:HD2	2.14	0.47
1:CA:411:A:C4	1:CA:413:G:O4'	2.67	0.47
1:CA:432:A:C8	1:CA:433:C:C6	3.03	0.47
1:CA:450:G:OP1	1:CA:452:A:OP1	2.31	0.47
1:CA:458:C:H2'	1:CA:460:G:H8	1.79	0.47
1:CA:509:A:H4'	1:CA:510:A:OP1	2.15	0.47
1:CA:559:A:H4'	1:CA:560:U:O5'	2.14	0.47
1:CA:560:U:H5'	1:CA:566:G:N2	2.29	0.47
1:CA:594:G:H1	1:CA:645:C:N4	2.13	0.47
1:CA:640:A:O2'	1:CA:641:U:H5'	2.15	0.47
1:CA:669:U:O2'	1:CA:670:G:H5'	2.15	0.47
1:CA:830:G:H2'	1:CA:831:U:O4'	2.14	0.47
1:CA:885:G:O2'	1:CA:914:A:N1	2.44	0.47
1:CA:963:G:H21	10:CJ:55:LYS:CE	2.28	0.47
1:CA:977:A:H8	1:CA:1223:C:N3	2.13	0.47
1:CA:1191:A:H5"	3:CC:4:LYS:NZ	2.29	0.47
1:CA:1272:G:C6	1:CA:1273:G:C5	3.03	0.47
1:CA:1298:C:C5	7:CG:114:ARG:CZ	2.98	0.47
1:CA:1368:G:H2'	1:CA:1369:C:H5'	1.96	0.47
1:CA:1410:G:O2'	1:CA:1411:C:H5'	2.15	0.47
2:CB:55:PHE:HA	2:CB:58:ILE:HG12	1.96	0.47
3:CC:3:ASN:OD1	3:CC:3:ASN:N	2.48	0.47
3:CC:61:ALA:O	3:CC:62:ASP:HB2	2.13	0.47
3:CC:68:VAL:HG12	3:CC:70:VAL:HG23	1.95	0.47
3:CC:113:ALA:C	3:CC:115:LEU:N	2.72	0.47
3:CC:120:VAL:O	3:CC:121:ALA:C	2.58	0.47
3:CC:126:ARG:O	3:CC:127:ARG:HB2	2.15	0.47
3:CC:207:VAL:HG12	3:CC:207:VAL:O	2.14	0.47
4:CD:36:ARG:HB3	4:CD:38:TYR:CE2	2.50	0.47
6:CF:78:GLU:O	6:CF:81:ILE:HG13	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:29:LYS:O	7:CG:105:VAL:HG11	2.15	0.47
9:CI:43:ALA:HA	9:CI:74:ILE:HD13	1.96	0.47
11:CK:34:ASP:HB2	11:CK:35:PRO:HD2	1.97	0.47
11:CK:50:TYR:HE1	11:CK:59:TYR:HD2	1.62	0.47
12:CL:27:LEU:HG	12:CL:62:SER:CB	2.45	0.47
13:CM:44:ARG:CB	13:CM:46:LYS:HG2	2.45	0.47
16:CP:39:TYR:CE1	16:CP:41:PRO:HA	2.49	0.47
18:CR:25:THR:HG22	18:CR:42:ARG:NH1	2.30	0.47
23:D1:37:ILE:O	23:D1:37:ILE:HD12	2.15	0.47
23:D1:75:GLU:O	23:D1:76:ARG:HD3	2.15	0.47
24:D2:33:MET:SD	24:D2:33:MET:N	2.88	0.47
24:D2:54:LYS:N	24:D2:56:GLN:HE21	2.13	0.47
25:D3:1:MET:O	25:D3:3:ARG:HG3	2.15	0.47
26:D4:1:MET:CB	32:DB:43:C:H5'	2.44	0.47
31:DA:26:G:H1'	31:DA:515:A:H61	1.79	0.47
31:DA:92:A:C2'	31:DA:93:G:H5'	2.45	0.47
31:DA:154:G:C2	31:DA:173:G:C2	3.02	0.47
31:DA:271(T):C:C2	31:DA:271(U):G:C8	3.02	0.47
31:DA:478:A:C6	31:DA:480:A:C6	3.03	0.47
31:DA:528:A:H3'	31:DA:528:A:H8	1.79	0.47
31:DA:643:A:O2'	31:DA:644:A:H5'	2.14	0.47
31:DA:795:C:H2'	31:DA:796:C:C6	2.49	0.47
31:DA:827:U:O2	31:DA:2246:G:H4'	2.14	0.47
31:DA:913:U:H4'	31:DA:914:C:OP1	2.15	0.47
31:DA:972:G:OP2	31:DA:974:G:H5"	2.14	0.47
31:DA:1009:A:OP2	39:DN:37:LYS:NZ	2.38	0.47
31:DA:1252:G:C2	31:DA:1253:A:C2	3.02	0.47
31:DA:1497:U:O2	31:DA:1497:U:C2'	2.63	0.47
31:DA:1668:A:H4'	31:DA:1669:A:O5'	2.14	0.47
31:DA:1902:C:C2'	31:DA:1903:G:O5'	2.62	0.47
31:DA:1925:C:C2'	31:DA:1926:U:H5'	2.44	0.47
31:DA:2228:G:C6	31:DA:2229:C:C4	3.03	0.47
31:DA:2287:A:C5	31:DA:2289:G:C5	3.03	0.47
31:DA:2314:C:O2	31:DA:2315:G:C8	2.67	0.47
31:DA:2388:A:C2'	31:DA:2389:G:H5'	2.44	0.47
31:DA:2563:U:H4'	40:DO:28:SER:HA	1.97	0.47
31:DA:2578:G:OP2	31:DA:2578:G:H4'	2.15	0.47
31:DA:2658:C:O2	31:DA:2658:C:C2'	2.62	0.47
31:DA:2787:C:O2	34:DE:61:ARG:NH1	2.48	0.47
32:DB:44:G:H1'	32:DB:47:C:H42	1.80	0.47
32:DB:93:G:H2'	32:DB:94:C:C6	2.50	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DD:15:PHE:O	33:DD:205:VAL:HG11	2.15	0.47
33:DD:30:GLU:CD	33:DD:63:ARG:NE	2.72	0.47
33:DD:45:ASN:OD1	33:DD:45:ASN:C	2.58	0.47
33:DD:121:PRO:HB3	33:DD:135:PHE:CD1	2.50	0.47
33:DD:198:ASN:HD22	33:DD:198:ASN:C	2.22	0.47
34:DE:116:VAL:O	34:DE:117:MET:HB3	2.14	0.47
34:DE:167:VAL:CG2	34:DE:170:LEU:HD11	2.43	0.47
35:DF:21:ALA:C	35:DF:23:ASP:H	2.23	0.47
36:DG:63:ILE:HD13	36:DG:141:PHE:CE2	2.50	0.47
37:DH:46:GLU:O	37:DH:47:GLU:CB	2.63	0.47
37:DH:84:SER:O	37:DH:133:VAL:O	2.33	0.47
37:DH:137:ASP:HB3	37:DH:140:LYS:CB	2.44	0.47
39:DN:42:TRP:CB	46:DU:64:ARG:HH11	1.98	0.47
39:DN:66:LYS:CA	39:DN:69:GLN:HB2	2.44	0.47
41:DP:8:PRO:O	41:DP:9:ASN:C	2.58	0.47
41:DP:51:PHE:HB3	41:DP:52:GLU:CD	2.38	0.47
41:DP:62:LEU:N	41:DP:62:LEU:CD1	2.75	0.47
41:DP:101:VAL:HG12	41:DP:106:LEU:HD23	1.96	0.47
42:DQ:108:GLY:C	42:DQ:109:VAL:HG23	2.40	0.47
42:DQ:131:ILE:HG22	42:DQ:132:VAL:N	2.30	0.47
44:DS:97:ARG:C	44:DS:97:ARG:NE	2.73	0.47
48:DW:36:LEU:O	48:DW:37:ARG:C	2.58	0.47
48:DW:83:LYS:HD2	48:DW:95:ILE:HD12	1.95	0.47
50:DY:54:LYS:O	50:DY:55:TYR:O	2.32	0.47
50:DY:97:ARG:O	50:DY:98:VAL:C	2.58	0.47
1:AA:55:A:C4	1:AA:56:U:C5	3.02	0.47
1:AA:79:G:H4'	1:AA:80:G:OP1	2.15	0.47
1:AA:393:A:O2'	1:AA:394:G:H5'	2.14	0.47
1:AA:432:A:N7	1:AA:433:C:C4	2.83	0.47
1:AA:758:G:H4'	1:AA:880:C:H4'	1.97	0.47
1:AA:775:G:C2'	1:AA:776:G:H5'	2.44	0.47
1:AA:783:C:O2'	1:AA:784:C:H5'	2.15	0.47
1:AA:892:A:C5	1:AA:893:C:C4	3.03	0.47
1:AA:1361:G:H2'	1:AA:1362:C:O4'	2.15	0.47
1:AA:1483:A:H1'	31:BA:1948:G:H1'	1.96	0.47
3:AC:131:ARG:NH1	5:AE:50:GLU:HG2	2.30	0.47
4:AD:108:LEU:HD11	4:AD:174:LEU:HD13	1.96	0.47
6:AF:2:ARG:HD2	6:AF:4:TYR:OH	2.15	0.47
6:AF:9:VAL:HB	6:AF:87:ARG:HB2	1.96	0.47
24:B2:14:ARG:HD3	24:B2:57:ILE:HB	1.97	0.47
30:B8:35:GLN:CB	31:BA:2420:C:OP1	2.62	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:18:C:O2'	31:BA:554:U:OP1	2.32	0.47
31:BA:18:C:H2'	31:BA:19:C:C6	2.49	0.47
31:BA:118:A:C8	31:BA:119:A:C8	3.03	0.47
31:BA:456:C:C5	49:BX:66:LEU:CD2	2.98	0.47
31:BA:485:C:H2'	31:BA:486:C:H6	1.80	0.47
31:BA:881:G:N2	31:BA:896:A:H62	2.13	0.47
31:BA:1282:U:H2'	31:BA:1283:G:O4'	2.14	0.47
31:BA:1548:C:H2'	31:BA:1549:C:H6	1.78	0.47
31:BA:2225:A:H1'	31:BA:2226:C:OP2	2.14	0.47
31:BA:2287:A:C2	31:BA:2346:A:C2	3.02	0.47
31:BA:2565:A:H5"	31:BA:2566:A:P	2.53	0.47
32:BB:46:A:C6	32:BB:47:C:C4	3.03	0.47
34:BE:70:ALA:C	34:BE:72:VAL:N	2.72	0.47
34:BE:174:ASP:OD2	34:BE:175:VAL:N	2.46	0.47
35:BF:31:HIS:O	35:BF:34:TRP:HB3	2.15	0.47
36:BG:45:GLU:HB2	36:BG:47:LYS:CD	2.44	0.47
37:BH:153:LYS:HE2	37:BH:154:PRO:O	2.15	0.47
38:BI:10:GLU:C	38:BI:12:LEU:H	2.22	0.47
39:BN:23:LEU:CD1	39:BN:98:VAL:HG12	2.45	0.47
39:BN:56:ASN:N	39:BN:125:GLY:HA3	2.22	0.47
39:BN:78:TYR:CD1	39:BN:79:PRO:CD	2.81	0.47
41:BP:85:LEU:HD13	41:BP:114:ILE:HD11	1.97	0.47
41:BP:112:LEU:CD2	41:BP:113:LYS:N	2.78	0.47
47:BV:45:THR:HG22	47:BV:45:THR:O	2.14	0.47
48:BW:86:LEU:HD12	48:BW:87:PRO:N	2.30	0.47
49:BX:23:GLU:HA	49:BX:23:GLU:OE1	2.15	0.47
1:CA:102:G:O2'	1:CA:151:A:N3	2.47	0.47
1:CA:340:U:H2'	1:CA:341:C:O4'	2.15	0.47
1:CA:410:G:OP2	4:CD:25:ARG:HG3	2.15	0.47
1:CA:586:C:O2'	1:CA:878:G:H4'	2.14	0.47
1:CA:628:G:O2'	1:CA:629:G:H5'	2.14	0.47
1:CA:1330:U:C5'	1:CA:1331:G:O5'	2.63	0.47
2:CB:180:LEU:O	2:CB:181:PHE:HB2	2.15	0.47
2:CB:204:ASN:HB3	2:CB:210:SER:HB3	1.97	0.47
8:CH:21:LYS:O	8:CH:22:GLU:C	2.56	0.47
11:CK:21:ILE:HD13	11:CK:82:VAL:HG13	1.95	0.47
13:CM:115:LYS:O	13:CM:116:THR:C	2.58	0.47
17:CQ:29:HIS:HB2	17:CQ:36:ILE:HD13	1.96	0.47
20:CT:12:ALA:O	20:CT:15:ARG:HB2	2.15	0.47
22:D0:31:VAL:HG21	22:D0:61:ALA:HB2	1.96	0.47
23:D1:8:SER:HB3	31:DA:1364:G:OP1	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D2:26:ARG:HG3	24:D2:29:LYS:NZ	2.30	0.47
25:D3:18:ASP:HB2	25:D3:49:LYS:HE3	1.96	0.47
30:D8:39:LYS:HD3	30:D8:40:GLU:N	2.30	0.47
30:D8:61:LEU:HB3	31:DA:593:G:H4'	1.97	0.47
31:DA:374:A:C2	31:DA:401:A:C4	3.03	0.47
31:DA:389:G:H1	41:DP:71:VAL:HG12	1.80	0.47
31:DA:518:G:H2'	31:DA:519:U:C6	2.50	0.47
31:DA:637:A:P	41:DP:116:GLY:HA2	2.54	0.47
31:DA:854:G:H2'	31:DA:855:G:H8	1.80	0.47
31:DA:911:A:O4'	31:DA:2264:C:H4'	2.15	0.47
31:DA:1168:G:O2'	31:DA:1169:G:H5'	2.15	0.47
31:DA:1359:A:N7	31:DA:1372:U:C4	2.82	0.47
31:DA:1766:U:O2'	31:DA:1767:C:H5'	2.15	0.47
31:DA:2741:A:H2'	31:DA:2742:C:O4'	2.14	0.47
31:DA:2831:G:O2'	31:DA:2883:A:H2'	2.15	0.47
32:DB:41:U:C4	36:DG:70:VAL:O	2.68	0.47
32:DB:110:G:C6	32:DB:111:G:C5	3.03	0.47
33:DD:205:VAL:HG12	33:DD:205:VAL:O	2.15	0.47
34:DE:149:ARG:HH11	34:DE:149:ARG:HG3	1.79	0.47
35:DF:160:ASN:ND2	35:DF:162:LEU:N	2.63	0.47
36:DG:35:GLU:OE2	36:DG:160:VAL:HB	2.15	0.47
37:DH:103:LEU:CD2	37:DH:115:VAL:HB	2.44	0.47
37:DH:127:GLU:HB3	37:DH:128:PRO:HD2	1.96	0.47
39:DN:5:VAL:HA	39:DN:6:PRO:HD3	1.54	0.47
39:DN:78:TYR:N	39:DN:79:PRO:HD3	2.30	0.47
41:DP:48:PRO:HG2	41:DP:49:ARG:N	2.30	0.47
41:DP:111:ARG:HA	41:DP:128:HIS:CD2	2.50	0.47
42:DQ:38:GLU:HB3	42:DQ:39:PRO:HD2	1.97	0.47
42:DQ:141:GLN:HB3	51:DZ:70:LEU:HD13	1.95	0.47
45:DT:32:TYR:CD2	45:DT:81:PRO:HB2	2.48	0.47
47:DV:50:PRO:C	47:DV:51:VAL:HG23	2.39	0.47
48:DW:55:ALA:O	48:DW:58:ALA:HB3	2.15	0.47
49:DX:74:PRO:C	49:DX:75:ASP:O	2.57	0.47
51:DZ:19:ARG:NH1	51:DZ:84:GLU:O	2.48	0.47
1:AA:159:G:C4	1:AA:161:A:OP2	2.67	0.47
1:AA:250:A:H1'	1:AA:251:G:OP2	2.15	0.47
1:AA:376:G:H5"	16:AP:5:ARG:HB2	1.96	0.47
1:AA:413:G:N2	1:AA:428:G:H1'	2.30	0.47
1:AA:515:G:H2'	1:AA:516:U:O4'	2.15	0.47
1:AA:734:G:H2'	1:AA:735:C:C6	2.50	0.47
2:AB:61:LEU:HD12	2:AB:61:LEU:O	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:128:PRO:O	5:AE:129:ILE:C	2.57	0.47
6:AF:3:ARG:HB3	6:AF:93:SER:HB2	1.97	0.47
13:AM:3:ARG:HA	13:AM:9:ILE:HG13	1.97	0.47
13:AM:112:GLY:O	13:AM:113:PRO:HG2	2.14	0.47
15:AO:32:LEU:O	15:AO:33:THR:C	2.58	0.47
22:B0:53:MET:HB2	22:B0:59:LEU:CD2	2.45	0.47
24:B2:15:LYS:O	24:B2:15:LYS:HG2	2.14	0.47
28:B6:28:ARG:CA	28:B6:32:ASN:HB3	2.44	0.47
31:BA:1109:C:H5	31:BA:1110:G:C8	2.32	0.47
31:BA:1157:G:C4	31:BA:1158:C:C5	3.03	0.47
31:BA:1322:A:C5	31:BA:1323:U:C5	3.03	0.47
31:BA:1338:G:N3	31:BA:1393:A:H2	2.12	0.47
31:BA:1705:G:C6	31:BA:1706:U:C4	3.03	0.47
31:BA:1799:G:H4'	31:BA:1800:C:O5'	2.15	0.47
31:BA:1816:G:H8	33:BD:62:TYR:CZ	2.33	0.47
31:BA:2319:G:OP2	31:BA:2319:G:H4'	2.15	0.47
33:BD:255:LYS:O	33:BD:255:LYS:HD2	2.15	0.47
34:BE:10:GLY:CA	45:BT:8:LYS:HE3	2.45	0.47
38:BI:99:GLU:HG3	38:BI:103:ARG:CZ	2.45	0.47
38:BI:110:ASP:C	38:BI:112:LYS:H	2.23	0.47
39:BN:56:ASN:CA	39:BN:125:GLY:H	2.27	0.47
42:BQ:134:ARG:O	42:BQ:136:ALA:N	2.42	0.47
47:BV:5:VAL:HG22	47:BV:6:LYS:N	2.30	0.47
47:BV:66:ARG:NH1	47:BV:94:LEU:CD1	2.78	0.47
48:BW:17:VAL:O	48:BW:18:ARG:C	2.57	0.47
48:BW:74:ALA:O	48:BW:75:TYR:HB3	2.15	0.47
51:BZ:5:LEU:HD23	51:BZ:5:LEU:HA	1.65	0.47
1:CA:142:G:H2'	1:CA:143:A:H8	1.79	0.47
1:CA:245:C:O2	1:CA:283:C:N3	2.47	0.47
1:CA:542:G:P	4:CD:10:ARG:HH21	2.38	0.47
1:CA:674:G:O2'	1:CA:675:A:H5'	2.15	0.47
1:CA:1072:G:C6	1:CA:1073:U:O4	2.68	0.47
1:CA:1202:G:H2'	1:CA:1203:C:O4'	2.15	0.47
1:CA:1206:G:C6	1:CA:1207:G:C6	3.03	0.47
2:CB:116:GLU:HA	2:CB:119:GLU:HB2	1.97	0.47
6:CF:24:GLU:HG2	6:CF:28:ARG:CZ	2.45	0.47
10:CJ:50:ILE:HA	10:CJ:60:ARG:HB2	1.97	0.47
10:CJ:95:GLU:C	10:CJ:96:ILE:HD13	2.40	0.47
11:CK:57:THR:HG22	11:CK:59:TYR:H	1.80	0.47
12:CL:93:LEU:O	12:CL:94:PRO:C	2.57	0.47
13:CM:91:ARG:HD3	19:CS:81:ARG:HH21	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:44:LEU:O	18:CR:45:SER:C	2.58	0.47
20:CT:56:MET:HG3	20:CT:88:VAL:HG11	1.96	0.47
23:D1:83:GLU:C	23:D1:85:LEU:H	2.23	0.47
23:D1:89:GLU:O	23:D1:90:ILE:C	2.57	0.47
23:D1:94:LEU:CD2	23:D1:95:LEU:N	2.78	0.47
24:D2:14:ARG:CD	24:D2:57:ILE:HB	2.45	0.47
30:D8:31:HIS:O	30:D8:33:ASN:N	2.48	0.47
31:DA:470:A:C2	31:DA:471:A:C4	3.03	0.47
31:DA:912:C:N3	31:DA:913:U:C4	2.83	0.47
31:DA:1002:G:H2'	31:DA:1003:G:O5'	2.15	0.47
31:DA:1272:A:OP2	31:DA:1647:G:OP1	2.33	0.47
31:DA:1502:C:O2'	31:DA:1503:U:H5'	2.15	0.47
31:DA:1962:C:O3'	31:DA:1963:U:H3'	2.15	0.47
31:DA:2394:C:C3'	31:DA:2395:C:H5'	2.45	0.47
31:DA:2476:A:H2	31:DA:2477:C:H2'	1.80	0.47
31:DA:2616:C:H2'	31:DA:2617:C:C6	2.50	0.47
31:DA:2815:C:H2'	31:DA:2816:C:H6	1.80	0.47
33:DD:31:LYS:O	33:DD:32:SER:C	2.56	0.47
34:DE:52:LEU:O	34:DE:75:VAL:N	2.47	0.47
34:DE:77:ILE:HG21	34:DE:79:ARG:HH21	1.79	0.47
35:DF:107:LYS:O	35:DF:108:LYS:C	2.57	0.47
36:DG:114:ILE:O	36:DG:114:ILE:HG22	2.15	0.47
37:DH:138:LYS:C	37:DH:140:LYS:N	2.72	0.47
38:DI:114:LEU:HD23	38:DI:114:LEU:HA	1.70	0.47
38:DI:124:GLY:H	38:DI:142:VAL:HG23	1.80	0.47
39:DN:58:ASP:HB2	39:DN:59:LYS:H	1.61	0.47
42:DQ:52:VAL:O	42:DQ:56:ARG:HB2	2.15	0.47
42:DQ:87:LYS:CA	42:DQ:87:LYS:HE3	2.44	0.47
44:DS:24:LEU:HB3	44:DS:85:VAL:CG1	2.44	0.47
45:DT:41:ARG:NH1	45:DT:43:GLN:HA	2.30	0.47
45:DT:100:TYR:CD2	45:DT:103:ARG:NH2	2.78	0.47
46:DU:91:ASP:C	46:DU:92:ARG:O	2.57	0.47
47:DV:71:LEU:HD22	47:DV:71:LEU:C	2.40	0.47
49:DX:50:LYS:O	49:DX:82:GLN:N	2.47	0.47
51:DZ:53:ILE:H	51:DZ:53:ILE:HG12	1.52	0.47
1:AA:38:G:N1	1:AA:397:A:C2	2.83	0.47
1:AA:92:C:H2'	1:AA:93:G:H8	1.81	0.47
1:AA:277:C:P	17:AQ:68:ARG:HH12	2.37	0.47
1:AA:537:G:H2'	1:AA:538:G:C8	2.49	0.47
1:AA:586:C:O2'	1:AA:878:G:H4'	2.15	0.47
1:AA:655:A:C2	1:AA:656:C:C2	3.03	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:735:C:H2'	1:AA:736:C:C6	2.41	0.47
1:AA:965:A:C2	1:AA:969:A:C2	3.03	0.47
1:AA:1016:A:H2'	1:AA:1017:G:O4'	2.15	0.47
1:AA:1389:C:H2'	1:AA:1390:U:O4'	2.14	0.47
3:AC:92:ALA:HB2	3:AC:99:VAL:HG22	1.97	0.47
7:AG:22:LEU:HG	7:AG:62:PHE:HE2	1.80	0.47
8:AH:37:ARG:HG2	8:AH:37:ARG:O	2.15	0.47
11:AK:29:ILE:HB	11:AK:44:SER:HB2	1.97	0.47
20:AT:84:LEU:O	20:AT:88:VAL:HG23	2.15	0.47
22:B0:1:MET:CB	31:BA:2602:A:H62	2.28	0.47
23:B1:89:GLU:O	23:B1:90:ILE:C	2.57	0.47
27:B5:16:ARG:NH2	31:BA:517:C:OP1	2.48	0.47
29:B7:8:ASN:HD21	29:B7:11:LYS:N	2.00	0.47
31:BA:533:G:H5'	46:BU:24:TYR:CE2	2.50	0.47
31:BA:814:C:H5"	47:BV:86:GLY:HA3	1.97	0.47
31:BA:930:U:O2	31:BA:930:U:O4'	2.31	0.47
31:BA:1517:G:O2'	31:BA:1518:U:H5'	2.15	0.47
31:BA:1701:A:C2'	31:BA:1702:G:H5'	2.45	0.47
31:BA:2287:A:C4	31:BA:2289:G:C8	3.03	0.47
31:BA:2722:G:H2'	31:BA:2723:C:C6	2.50	0.47
31:BA:2789:C:H2'	31:BA:2790:A:OP2	2.15	0.47
31:BA:2897:U:O2	31:BA:2897:U:H2'	2.14	0.47
32:BB:31:C:O2'	32:BB:32:C:H5'	2.14	0.47
33:BD:25:THR:O	33:BD:26:LYS:C	2.59	0.47
33:BD:35:LYS:HG2	33:BD:64:ILE:CA	2.45	0.47
33:BD:35:LYS:CE	33:BD:64:ILE:C	2.88	0.47
41:BP:56:SER:O	41:BP:57:THR:C	2.58	0.47
42:BQ:14:ARG:HG2	42:BQ:41:TRP:CH2	2.50	0.47
45:BT:34:VAL:HG13	45:BT:39:ARG:HA	1.97	0.47
49:BX:59:VAL:HG23	49:BX:60:ARG:N	2.30	0.47
50:BY:81:LYS:HG2	50:BY:97:ARG:H	1.79	0.47
1:CA:15:G:H2'	1:CA:16:A:H8	1.79	0.47
1:CA:292:G:H1	1:CA:308:C:H42	1.61	0.47
1:CA:294:U:H2'	1:CA:295:C:C6	2.49	0.47
1:CA:461:A:C5	1:CA:471:G:C6	3.02	0.47
1:CA:538:G:C2	1:CA:539:A:C4	3.03	0.47
1:CA:581:G:N2	1:CA:582:U:C4	2.83	0.47
1:CA:657:G:N2	1:CA:750:G:C8	2.83	0.47
1:CA:688:G:H2'	1:CA:689:C:C6	2.45	0.47
1:CA:832:C:O2'	1:CA:833:U:O5'	2.32	0.47
1:CA:1319:A:H61	1:CA:1361:G:H21	1.63	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1322:C:H5'	13:CM:100:GLY:HA3	1.96	0.47
6:CF:9:VAL:HB	6:CF:87:ARG:HB2	1.96	0.47
6:CF:30:LEU:O	6:CF:35:ALA:HB3	2.14	0.47
10:CJ:74:ILE:HD13	10:CJ:74:ILE:H	1.80	0.47
12:CL:110:VAL:CG2	12:CL:120:TYR:HB3	2.45	0.47
15:CO:87:ILE:O	15:CO:88:ARG:HB2	2.15	0.47
17:CQ:4:LYS:HB3	17:CQ:61:GLU:OE2	2.14	0.47
17:CQ:7:THR:HA	17:CQ:57:VAL:O	2.15	0.47
22:D0:68:GLU:HG2	22:D0:80:HIS:HB2	1.97	0.47
24:D2:15:LYS:O	24:D2:16:LEU:HB2	2.15	0.47
27:D5:51:TYR:HB3	27:D5:52:TYR:CD2	2.49	0.47
31:DA:460:A:C2	31:DA:470:A:C5	3.03	0.47
31:DA:500:G:N2	31:DA:502:A:H3'	2.30	0.47
31:DA:530:G:C5	31:DA:2022:U:H5"	2.50	0.47
31:DA:996:A:O4'	46:DU:92:ARG:NH2	2.46	0.47
31:DA:1190:G:C5'	41:DP:35:HIS:HA	2.44	0.47
31:DA:1198:U:H2'	31:DA:1199:U:C6	2.50	0.47
31:DA:1514:U:C2'	31:DA:1515:G:H5'	2.45	0.47
31:DA:1669:A:H5"	31:DA:2550:G:OP1	2.15	0.47
31:DA:1669:A:OP2	31:DA:1670:C:OP2	2.33	0.47
31:DA:1712:C:H2'	31:DA:1713:U:C6	2.49	0.47
31:DA:1771:C:O2'	31:DA:1786:A:C8	2.47	0.47
31:DA:1782:C:H2'	31:DA:2608:G:O2'	2.15	0.47
31:DA:2061:G:H5"	31:DA:2503:A:C2	2.50	0.47
31:DA:2302:G:H21	36:DG:128:ARG:CB	2.28	0.47
31:DA:2311:A:O2'	31:DA:2312:U:O4'	2.27	0.47
31:DA:2317:C:C2'	31:DA:2317:C:O2	2.60	0.47
31:DA:2462:U:H2'	31:DA:2463:C:O4'	2.15	0.47
31:DA:2593:U:H2'	31:DA:2594:C:H6	1.78	0.47
31:DA:2759:G:C2'	31:DA:2760:C:O5'	2.62	0.47
33:DD:223:GLY:HA3	33:DD:231:HIS:CE1	2.49	0.47
34:DE:201:THR:CG2	34:DE:203:LYS:H	2.26	0.47
37:DH:126:PRO:HB2	37:DH:130:ARG:HH12	1.80	0.47
41:DP:85:LEU:HB3	41:DP:114:ILE:CD1	2.45	0.47
46:DU:92:ARG:NH1	47:DV:11:GLN:O	2.47	0.47
51:DZ:111:VAL:HG13	51:DZ:112:ARG:N	2.30	0.47
51:DZ:120:ILE:HG22	51:DZ:120:ILE:O	2.15	0.47
1:AA:460:G:C6	1:AA:470:C:H5"	2.49	0.46
1:AA:625:G:C4	1:AA:626:U:C5	3.04	0.46
1:AA:659:U:H2'	1:AA:659:U:O2	2.14	0.46
1:AA:814:A:N7	1:AA:816:A:C5	2.83	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:872:A:C5	1:AA:874:G:C8	3.03	0.46
1:AA:1072:G:C4	1:AA:1073:U:C5	3.03	0.46
1:AA:1086:U:O2'	1:AA:1087:G:H5'	2.15	0.46
1:AA:1352:C:H42	1:AA:1370:G:H1	1.63	0.46
1:AA:1486:G:H2'	1:AA:1487:G:C1'	2.45	0.46
2:AB:24:TRP:CG	2:AB:25:ASN:H	2.32	0.46
5:AE:99:GLY:C	5:AE:116:THR:O	2.58	0.46
8:AH:80:ILE:HG22	8:AH:80:ILE:O	2.15	0.46
12:AL:110:VAL:HG21	12:AL:120:TYR:HB3	1.97	0.46
17:AQ:63:ARG:HG2	17:AQ:64:PRO:CD	2.45	0.46
17:AQ:70:ARG:C	17:AQ:71:PHE:CD2	2.93	0.46
23:B1:73:LEU:O	23:B1:74:VAL:C	2.57	0.46
27:B5:40:LYS:HZ3	27:B5:46:CYS:C	2.18	0.46
28:B6:15:GLU:OE2	28:B6:41:PRO:CG	2.63	0.46
29:B7:47:ARG:HA	29:B7:48:LYS:HD3	1.97	0.46
31:BA:256:A:C2	31:BA:257:A:C4	3.03	0.46
31:BA:271(J):C:C3'	31:BA:271(K):U:H5"	2.44	0.46
31:BA:921:G:C6	31:BA:922:U:C4	3.03	0.46
31:BA:1131:G:H21	39:BN:73:THR:CG2	2.28	0.46
31:BA:1141:U:C6	39:BN:63:THR:HB	2.50	0.46
31:BA:1741:A:N7	31:BA:1742:G:N1	2.63	0.46
31:BA:1799:G:N7	33:BD:179:SER:OG	2.42	0.46
31:BA:1827:C:C2'	31:BA:1828:G:H5'	2.45	0.46
31:BA:1844:C:OP1	33:BD:257:LEU:HD23	2.15	0.46
31:BA:2661:G:C8	31:BA:2662:A:N3	2.84	0.46
34:BE:66:HIS:O	34:BE:66:HIS:CD2	2.67	0.46
35:BF:107:LYS:O	35:BF:108:LYS:C	2.57	0.46
36:BG:11:TYR:CZ	36:BG:16:ARG:HD3	2.51	0.46
36:BG:15:VAL:HA	36:BG:175:LEU:HD13	1.96	0.46
37:BH:153:LYS:CB	37:BH:154:PRO:CD	2.93	0.46
37:BH:164:TYR:O	37:BH:165:ALA:HB2	2.16	0.46
38:BI:49:ALA:O	38:BI:52:ARG:HG2	2.15	0.46
38:BI:81:VAL:HG11	38:BI:88:ILE:HD12	1.97	0.46
39:BN:16:ILE:HD11	39:BN:26:LEU:HD11	1.97	0.46
39:BN:65:LYS:HD3	39:BN:67:LEU:H	1.80	0.46
40:BO:106:LEU:HD23	40:BO:106:LEU:HA	1.67	0.46
44:BS:83:LYS:HE2	44:BS:105:ALA:HB2	1.96	0.46
44:BS:89:ARG:NE	44:BS:89:ARG:CA	2.76	0.46
46:BU:8:VAL:HG22	46:BU:11:ARG:NH2	2.30	0.46
46:BU:104:GLN:O	46:BU:108:GLU:HG3	2.15	0.46
1:CA:31:G:H5'	1:CA:306:G:N2	2.30	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:286:G:C5	1:CA:287:U:C4	3.02	0.46
1:CA:376:G:H5"	16:CP:5:ARG:HB2	1.96	0.46
1:CA:437:U:H4'	4:CD:125:HIS:HE2	1.80	0.46
1:CA:567:G:H2'	1:CA:568:G:O4'	2.14	0.46
1:CA:642:A:C4	8:CH:114:THR:O	2.69	0.46
1:CA:684:A:C6	1:CA:685:G:C6	3.03	0.46
1:CA:1187:G:C6	1:CA:1188:A:C6	3.03	0.46
1:CA:1206:G:O4'	3:CC:194:GLY:HA2	2.15	0.46
1:CA:1226:C:OP1	13:CM:91:ARG:NH1	2.48	0.46
3:CC:53:ALA:O	3:CC:54:ARG:HB2	2.14	0.46
5:CE:6:PHE:HD2	5:CE:36:ASP:HB3	1.80	0.46
17:CQ:57:VAL:HG12	17:CQ:75:ARG:O	2.15	0.46
23:D1:44:PRO:HA	31:DA:2231:C:OP1	2.15	0.46
30:D8:23:VAL:CG1	30:D8:46:ARG:HB3	2.45	0.46
31:DA:340:A:C2'	31:DA:341:G:H5'	2.44	0.46
31:DA:353:G:C2'	31:DA:354:G:O5'	2.63	0.46
31:DA:570:G:H2'	31:DA:2030:A:C5	2.50	0.46
31:DA:921:G:C6	31:DA:922:U:C4	3.03	0.46
31:DA:1022:G:C6	31:DA:1141:U:C5	3.03	0.46
31:DA:1022:G:C5	31:DA:1140:C:C4	3.03	0.46
31:DA:1678:G:H21	31:DA:1989:G:N2	2.05	0.46
31:DA:1705:G:C6	31:DA:1706:U:C4	3.03	0.46
31:DA:2575:C:O2'	34:DE:140:SER:HB2	2.14	0.46
31:DA:2694:G:C6	31:DA:2695:C:C4	3.03	0.46
31:DA:2698:U:H2'	31:DA:2699:C:C6	2.51	0.46
32:DB:65:C:N4	32:DB:109:C:H2'	2.25	0.46
32:DB:87:G:O5'	32:DB:88:C:OP2	2.33	0.46
34:DE:61:ARG:N	34:DE:62:PRO:CD	2.78	0.46
36:DG:106:LEU:O	36:DG:110:ALA:HB3	2.15	0.46
38:DI:5:LEU:C	38:DI:6:LEU:HD23	2.40	0.46
38:DI:9:LEU:HB2	38:DI:12:LEU:O	2.15	0.46
42:DQ:69:PHE:CD1	42:DQ:70:PRO:HD2	2.50	0.46
43:DR:46:GLY:HA2	43:DR:49:ASP:HB2	1.97	0.46
44:DS:32:LEU:O	44:DS:62:LYS:HE2	2.14	0.46
48:DW:1:MET:HG2	48:DW:64:MET:HE3	1.97	0.46
48:DW:86:LEU:HD12	48:DW:87:PRO:HD2	1.96	0.46
49:DX:21:PHE:CE1	49:DX:26:TYR:CG	3.03	0.46
1:AA:102:G:C4	1:AA:103:C:C6	3.04	0.46
1:AA:105:G:H2'	1:AA:106:C:H6	1.76	0.46
1:AA:106:C:H2'	1:AA:107:G:H8	1.80	0.46
1:AA:407:G:H5'	4:AD:3:ARG:HH12	1.81	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:438:G:OP1	4:AD:125:HIS:HE1	1.98	0.46
1:AA:658:G:N3	1:AA:659:U:C6	2.84	0.46
1:AA:1452:C:H5'	1:AA:1456:G:N9	2.29	0.46
2:AB:153:ARG:O	2:AB:154:LEU:C	2.58	0.46
13:AM:78:ILE:HA	13:AM:81:LEU:HD12	1.98	0.46
19:AS:4:SER:O	19:AS:5:LEU:HB2	2.14	0.46
31:BA:27:G:C2	31:BA:512:G:N3	2.84	0.46
31:BA:346:A:H2'	31:BA:346:A:N3	2.30	0.46
31:BA:449:A:H2'	31:BA:450:G:O5'	2.15	0.46
31:BA:547:A:H2'	31:BA:547:A:N3	2.31	0.46
31:BA:721:C:C2	31:BA:722:A:C8	3.03	0.46
31:BA:773:U:C5'	33:BD:47:GLY:HA2	2.45	0.46
31:BA:1317:A:C5	31:BA:1318:C:C5	3.03	0.46
31:BA:1810:A:H2'	31:BA:1811:G:C5'	2.46	0.46
31:BA:2460:U:H2'	31:BA:2461:C:H6	1.80	0.46
34:BE:200:GLU:OE2	34:BE:200:GLU:N	2.45	0.46
36:BG:98:ARG:O	36:BG:101:ILE:HG22	2.14	0.46
39:BN:2:LYS:NZ	46:BU:94:ASN:HD21	2.13	0.46
39:BN:24:GLY:O	39:BN:28:THR:HB	2.14	0.46
41:BP:17:LYS:O	41:BP:19:VAL:HG23	2.15	0.46
42:BQ:20:ALA:C	42:BQ:22:LYS:N	2.73	0.46
43:BR:12:ARG:HD3	43:BR:16:HIS:ND1	2.30	0.46
44:BS:67:ARG:H	44:BS:69:VAL:CG1	2.25	0.46
50:BY:98:VAL:O	50:BY:99:CYS:CB	2.63	0.46
51:BZ:175:VAL:HB	51:BZ:176:PRO:CD	2.46	0.46
1:CA:338:A:C2'	1:CA:339:C:H5'	2.46	0.46
1:CA:414:A:H2'	1:CA:415:A:O4'	2.14	0.46
1:CA:429:U:H4'	1:CA:430:A:O5'	2.14	0.46
1:CA:946:A:N3	1:CA:1333:A:H2	2.13	0.46
2:CB:41:ILE:HD12	2:CB:41:ILE:N	2.30	0.46
3:CC:47:LEU:HD23	3:CC:52:LEU:HD13	1.97	0.46
4:CD:43:HIS:O	4:CD:45:GLN:N	2.48	0.46
9:CI:53:VAL:CB	9:CI:92:TYR:HE2	2.27	0.46
9:CI:122:ALA:HB1	9:CI:123:PRO:HD2	1.96	0.46
20:CT:24:LEU:C	20:CT:24:LEU:HD13	2.40	0.46
23:D1:11:ARG:HA	23:D1:11:ARG:HD2	1.54	0.46
24:D2:33:MET:HA	24:D2:33:MET:HE3	1.96	0.46
24:D2:56:GLN:H	24:D2:56:GLN:CD	2.24	0.46
29:D7:8:ASN:ND2	29:D7:10:ARG:N	2.63	0.46
31:DA:18:C:O2'	31:DA:19:C:H5'	2.15	0.46
31:DA:272(B):G:C2'	31:DA:272(C):G:O5'	2.63	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:631:A:H61	31:DA:2402:C:N4	2.13	0.46
31:DA:693:C:H2'	31:DA:694:U:H6	1.80	0.46
31:DA:994:C:O2'	31:DA:996:A:OP1	2.23	0.46
31:DA:1005:C:O2'	39:DN:28:THR:HG21	2.15	0.46
31:DA:1386:C:H2'	31:DA:1387:C:C6	2.49	0.46
31:DA:1453:U:OP1	43:DR:77:ARG:NH1	2.48	0.46
31:DA:1608:A:H1'	31:DA:1610:A:OP2	2.15	0.46
31:DA:2010:G:H5"	48:DW:42:ARG:HB2	1.98	0.46
31:DA:2498:C:O2'	31:DA:2499:C:H5'	2.16	0.46
31:DA:2631:G:C6	31:DA:2632:A:N7	2.84	0.46
31:DA:2639:A:C2'	31:DA:2640:G:H5'	2.46	0.46
31:DA:2810:A:H2'	34:DE:61:ARG:HH21	1.78	0.46
31:DA:2897:U:H2'	31:DA:2897:U:O2	2.14	0.46
33:DD:27:THR:HG22	33:DD:28:GLU:H	1.79	0.46
34:DE:36:ARG:NH1	34:DE:85:ASN:ND2	2.63	0.46
34:DE:63:LEU:O	34:DE:64:LYS:C	2.58	0.46
36:DG:36:LYS:HG2	36:DG:38:VAL:HG23	1.97	0.46
36:DG:123:ASN:ND2	36:DG:126:ASP:OD1	2.48	0.46
38:DI:15:VAL:CG2	38:DI:16:GLY:N	2.78	0.46
38:DI:105:HIS:N	38:DI:105:HIS:CD2	2.84	0.46
39:DN:16:ILE:O	39:DN:54:VAL:HA	2.15	0.46
39:DN:131:GLN:NE2	39:DN:134:ARG:CA	2.78	0.46
40:DO:26:LYS:HB2	40:DO:30:ALA:CB	2.45	0.46
42:DQ:23:GLY:O	42:DQ:99:PRO:O	2.34	0.46
43:DR:116:LEU:HA	43:DR:116:LEU:HD23	1.58	0.46
44:DS:85:VAL:CG2	44:DS:106:ARG:HB2	2.45	0.46
44:DS:90:GLY:C	44:DS:92:TYR:N	2.74	0.46
46:DU:8:VAL:O	46:DU:9:VAL:C	2.58	0.46
48:DW:9:TYR:N	48:DW:102:HIS:CD2	2.76	0.46
49:DX:74:PRO:O	49:DX:75:ASP:C	2.58	0.46
51:DZ:98:MET:HE2	51:DZ:100:VAL:HG23	1.98	0.46
1:AA:116:A:OP2	1:AA:116:A:C8	2.68	0.46
1:AA:354:G:C2	1:AA:355:C:C5	3.03	0.46
1:AA:664:G:P	18:AR:64:ARG:HH21	2.38	0.46
1:AA:683:G:C2	1:AA:708:C:N3	2.83	0.46
1:AA:1080:A:H5'	5:AE:14:ARG:HH21	1.78	0.46
1:AA:1158:C:H42	1:AA:1181:G:H1	1.63	0.46
2:AB:188:ALA:HB1	2:AB:192:SER:CB	2.42	0.46
4:AD:117:ALA:O	4:AD:120:LEU:HB2	2.15	0.46
7:AG:13:GLN:O	7:AG:24:THR:HG21	2.15	0.46
8:AH:113:SER:H	8:AH:134:ILE:HG12	1.81	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:99:LEU:HD12	9:AI:101:PHE:CE1	2.50	0.46
16:AP:55:ARG:HA	16:AP:55:ARG:HE	1.81	0.46
23:B1:17:SER:C	23:B1:18:ILE:HD12	2.40	0.46
30:B8:35:GLN:HE21	30:B8:35:GLN:HB3	1.56	0.46
30:B8:39:LYS:HD3	30:B8:40:GLU:N	2.30	0.46
31:BA:123:G:H2'	31:BA:124:G:O4'	2.16	0.46
31:BA:174:C:H2'	31:BA:175:G:H5"	1.97	0.46
31:BA:705:A:C2'	31:BA:706:A:H5'	2.45	0.46
31:BA:733:G:O6	31:BA:761:A:C8	2.69	0.46
31:BA:784:A:C5	33:BD:229:VAL:HG21	2.51	0.46
31:BA:892:G:H3'	31:BA:892:G:N3	2.30	0.46
31:BA:912:C:N3	31:BA:913:U:C4	2.83	0.46
31:BA:958:U:OP2	42:BQ:14:ARG:NH1	2.48	0.46
31:BA:1543:C:C6	31:BA:1543:C:OP2	2.68	0.46
31:BA:2473:U:O2	31:BA:2473:U:H2'	2.15	0.46
31:BA:2564:A:C2	31:BA:2647:U:H4'	2.51	0.46
31:BA:2688:U:H1'	31:BA:2721:A:N6	2.30	0.46
32:BB:46:A:C5	32:BB:47:C:C5	3.03	0.46
36:BG:81:LYS:O	36:BG:82:LEU:O	2.33	0.46
37:BH:16:SER:O	37:BH:26:VAL:HA	2.15	0.46
39:BN:83:LYS:HE2	39:BN:85:ILE:CD1	2.46	0.46
41:BP:147:LEU:HB2	41:BP:148:LEU:H	1.43	0.46
44:BS:59:LYS:NZ	44:BS:68:GLN:NE2	2.63	0.46
44:BS:106:ARG:CZ	44:BS:107:GLU:O	2.63	0.46
45:BT:98:LYS:HB3	45:BT:100:TYR:CE1	2.51	0.46
46:BU:88:ILE:CA	46:BU:90:VAL:HG23	2.45	0.46
46:BU:92:ARG:HD2	47:BV:11:GLN:HG3	1.93	0.46
46:BU:92:ARG:HB2	47:BV:11:GLN:CD	2.40	0.46
46:BU:114:LYS:H	46:BU:114:LYS:HG2	1.62	0.46
47:BV:22:VAL:O	47:BV:23:GLU:CB	2.44	0.46
47:BV:66:ARG:HD3	47:BV:94:LEU:HG	1.98	0.46
1:CA:337:C:H2'	1:CA:338:A:C8	2.51	0.46
1:CA:408:A:H5'	4:CD:116:GLN:HB2	1.98	0.46
1:CA:512:U:C2	1:CA:513:C:C5	3.03	0.46
1:CA:537:G:H2'	1:CA:538:G:C8	2.50	0.46
1:CA:625:G:O2'	1:CA:626:U:H5'	2.15	0.46
1:CA:1014:A:H2	1:CA:1219:U:O2	1.98	0.46
1:CA:1147:C:C5	1:CA:1148:U:C4	3.04	0.46
2:CB:124:SER:O	2:CB:127:ILE:HG12	2.15	0.46
3:CC:119:ARG:HE	3:CC:140:ARG:NE	2.14	0.46
4:CD:109:GLY:O	4:CD:110:PHE:C	2.57	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:208:SER:O	4:CD:209:ARG:C	2.57	0.46
6:CF:2:ARG:HD2	6:CF:4:TYR:OH	2.16	0.46
12:CL:40:VAL:HG11	12:CL:77:LEU:O	2.16	0.46
14:CN:51:GLY:C	14:CN:53:LEU:N	2.70	0.46
15:CO:9:GLN:O	15:CO:10:LYS:C	2.58	0.46
15:CO:23:GLY:O	15:CO:24:SER:HB3	2.16	0.46
25:D3:46:ASN:ND2	31:DA:851:U:H5'	2.31	0.46
31:DA:123:G:H2'	31:DA:124:G:O4'	2.14	0.46
31:DA:140:G:O4'	31:DA:141:A:H2	1.98	0.46
31:DA:150:C:H2'	31:DA:151:C:H6	1.80	0.46
31:DA:314:A:H2'	31:DA:315:G:H5'	1.96	0.46
31:DA:449:A:H2'	31:DA:450:G:O5'	2.15	0.46
31:DA:924:C:H2'	31:DA:925:C:C6	2.50	0.46
31:DA:1173:G:H5'	31:DA:1174:A:P	2.56	0.46
31:DA:1235:G:C6	31:DA:1236:G:N1	2.83	0.46
31:DA:1318:C:O2	31:DA:1318:C:H2'	2.14	0.46
31:DA:1380:G:N2	31:DA:1570:A:H2	2.13	0.46
31:DA:1834:U:O2	31:DA:1834:U:H2'	2.14	0.46
31:DA:1893:C:C5	31:DA:1894:C:C5	3.03	0.46
31:DA:1910:G:O2'	31:DA:1911:U:H5'	2.15	0.46
31:DA:2470:G:C6	31:DA:2471:C:C5	3.02	0.46
31:DA:2521:C:H42	31:DA:2544:G:H1	1.63	0.46
32:DB:2:C:H2'	32:DB:3:C:C6	2.50	0.46
33:DD:28:GLU:CB	33:DD:29:PRO:HD3	2.45	0.46
35:DF:22:ALA:HA	35:DF:26:ALA:HB2	1.97	0.46
39:DN:85:ILE:HD12	39:DN:90:MET:HE3	1.97	0.46
40:DO:115:VAL:CG1	40:DO:121:VAL:HG21	2.43	0.46
41:DP:35:HIS:O	41:DP:36:LYS:CB	2.63	0.46
51:DZ:77:ASP:HB2	51:DZ:84:GLU:HG2	1.97	0.46
1:AA:9:G:C6	1:AA:26:A:N6	2.83	0.46
1:AA:189:G:O2'	1:AA:189(A):C:H5'	2.15	0.46
1:AA:437:U:C5	1:AA:438:G:N7	2.83	0.46
1:AA:484:G:H4'	1:AA:485:G:OP1	2.15	0.46
1:AA:945:G:C2	1:AA:946:A:C8	3.04	0.46
1:AA:1159:U:C5	1:AA:1182:G:N3	2.83	0.46
1:AA:1350:A:OP1	9:AI:121:ARG:HG3	2.16	0.46
1:AA:1442:G:O2'	1:AA:1442(A):G:C5'	2.41	0.46
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.50	0.46
2:AB:96:ARG:O	2:AB:98:LEU:N	2.48	0.46
2:AB:157:ARG:O	2:AB:159:PRO:HD3	2.15	0.46
9:AI:43:ALA:HA	9:AI:74:ILE:HD13	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:39:LEU:HD12	15:AO:56:LEU:CB	2.41	0.46
19:AS:50:ALA:HA	19:AS:58:VAL:O	2.15	0.46
24:B2:40:SER:O	24:B2:41:ILE:C	2.58	0.46
25:B3:13:ILE:HD12	31:BA:989:G:N7	2.29	0.46
27:B5:51:TYR:HB2	27:B5:54:GLY:HA3	1.98	0.46
27:B5:51:TYR:HB3	27:B5:52:TYR:CD2	2.51	0.46
30:B8:35:GLN:HG2	31:BA:2420:C:OP1	2.15	0.46
31:BA:142:A:C8	31:BA:1595:G:N2	2.69	0.46
31:BA:272(J):C:H2'	31:BA:274:G:OP1	2.14	0.46
31:BA:310:A:C8	31:BA:312:G:C6	3.03	0.46
31:BA:389:G:N1	41:BP:71:VAL:HG12	2.31	0.46
31:BA:668:G:H5'	31:BA:669:G:OP2	2.15	0.46
31:BA:848:G:C4	31:BA:933:A:C8	3.02	0.46
31:BA:1505:C:C6	31:BA:1506:C:C6	3.02	0.46
31:BA:1550:C:H2'	31:BA:1551:C:H6	1.81	0.46
31:BA:1782:C:H2'	31:BA:2608:G:O2'	2.14	0.46
31:BA:2273:A:C2'	31:BA:2274:A:H5'	2.45	0.46
31:BA:2631:G:N2	34:BE:61:ARG:NH1	2.62	0.46
31:BA:2850:A:C2'	31:BA:2851:A:O5'	2.64	0.46
31:BA:2853:C:O2'	31:BA:2854:G:H5'	2.16	0.46
31:BA:2855:C:H2'	31:BA:2856:C:C6	2.50	0.46
31:BA:2876:G:C5'	45:BT:2:ASN:O	2.63	0.46
33:BD:254:THR:H	33:BD:255:LYS:HZ1	1.63	0.46
34:BE:101:ARG:HB3	34:BE:169:ASN:ND2	2.30	0.46
34:BE:116:VAL:O	34:BE:117:MET:HB3	2.14	0.46
35:BF:22:ALA:HB1	35:BF:26:ALA:CB	2.45	0.46
35:BF:184:TYR:O	35:BF:188:ARG:HG3	2.15	0.46
37:BH:158:HIS:CE1	37:BH:169:VAL:N	2.84	0.46
50:BY:8:LYS:CD	50:BY:28:LYS:HZ3	2.29	0.46
51:BZ:126:VAL:HG12	51:BZ:163:LEU:HA	1.97	0.46
1:CA:50:A:N6	1:CA:361:G:H4'	2.30	0.46
1:CA:236:G:C6	1:CA:237:C:C4	3.03	0.46
1:CA:413:G:N2	1:CA:428:G:H1'	2.30	0.46
1:CA:472:A:C4'	16:CP:82:GLN:HE22	2.27	0.46
1:CA:515:G:C6	1:CA:516:U:N3	2.82	0.46
1:CA:737:A:C4	1:CA:738:C:C5	3.03	0.46
1:CA:916:G:H2'	1:CA:917:G:C8	2.51	0.46
1:CA:933:G:C2	1:CA:1385:G:C2	3.03	0.46
1:CA:965:A:C2	1:CA:969:A:C2	3.04	0.46
1:CA:1064:G:H5'	1:CA:1066:C:H1'	1.97	0.46
1:CA:1521:G:H2'	1:CA:1522:U:C6	2.50	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:114:ARG:HD2	2:CB:141:GLU:OE1	2.15	0.46
4:CD:3:ARG:CD	4:CD:5:ILE:HD11	2.46	0.46
4:CD:13:ARG:O	4:CD:14:ARG:C	2.59	0.46
5:CE:87:SER:HB3	5:CE:125:SER:O	2.16	0.46
6:CF:96:PRO:HB3	18:CR:30:ASP:OD2	2.15	0.46
10:CJ:50:ILE:HD13	10:CJ:60:ARG:HD3	1.96	0.46
17:CQ:40:LYS:HG2	17:CQ:41:LYS:N	2.30	0.46
17:CQ:60:ILE:HB	17:CQ:74:LEU:HD23	1.97	0.46
22:D0:36:ILE:HG23	31:DA:2354:G:O2'	2.15	0.46
31:DA:185:U:H2'	31:DA:186:G:H8	1.80	0.46
31:DA:271(D):G:H2'	31:DA:271(E):U:O4'	2.15	0.46
31:DA:358:U:H3'	31:DA:358:U:C6	2.50	0.46
31:DA:606:U:H4'	31:DA:658:C:H4'	1.97	0.46
31:DA:671:C:H5'	31:DA:671:C:H6	1.80	0.46
31:DA:768:G:C6	31:DA:769:G:C5	3.03	0.46
31:DA:1005:C:C2	31:DA:1143:A:C5	3.03	0.46
31:DA:1480:G:C2	31:DA:1481:U:O2	2.68	0.46
31:DA:1531:C:H3'	31:DA:1532:C:H5'	1.97	0.46
31:DA:1741:A:N7	31:DA:1742:G:N1	2.64	0.46
31:DA:1833:U:C2	31:DA:1834:U:C6	3.03	0.46
31:DA:2038:G:H2'	31:DA:2039:C:O4'	2.15	0.46
31:DA:2287:A:C2	31:DA:2346:A:C2	3.04	0.46
31:DA:2495:G:H5"	42:DQ:81:VAL:HG22	1.97	0.46
31:DA:2565:A:H5"	31:DA:2566:A:P	2.55	0.46
32:DB:6:C:H2'	32:DB:7:G:O4'	2.16	0.46
32:DB:66:A:O4'	32:DB:109:C:N4	2.48	0.46
33:DD:133:LEU:HB3	33:DD:173:VAL:HG11	1.96	0.46
33:DD:165:ILE:HD13	33:DD:175:LEU:HD21	1.97	0.46
35:DF:114:VAL:O	35:DF:115:ALA:C	2.57	0.46
36:DG:165:THR:OG1	36:DG:168:GLU:HG3	2.16	0.46
37:DH:137:ASP:HB3	37:DH:140:LYS:HB3	1.97	0.46
37:DH:153:LYS:CB	37:DH:154:PRO:CD	2.93	0.46
38:DI:52:ARG:HG3	38:DI:53:ALA:N	2.26	0.46
42:DQ:58:PHE:HD1	42:DQ:58:PHE:O	1.99	0.46
45:DT:32:TYR:HB3	45:DT:81:PRO:HB2	1.93	0.46
45:DT:57:PHE:O	45:DT:58:ASN:C	2.59	0.46
45:DT:90:GLN:HG2	45:DT:120:ARG:NH1	2.29	0.46
50:DY:8:LYS:HB2	50:DY:28:LYS:NZ	2.31	0.46
1:AA:340:U:H2'	1:AA:341:C:O4'	2.14	0.46
1:AA:509:A:H4'	1:AA:510:A:OP1	2.16	0.46
1:AA:963:G:H21	10:AJ:55:LYS:CE	2.29	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1147:C:C5	1:AA:1148:U:C4	3.04	0.46
3:AC:119:ARG:HE	3:AC:140:ARG:NE	2.13	0.46
4:AD:19:LEU:HD13	4:AD:21:LEU:HD21	1.98	0.46
4:AD:165:MET:O	4:AD:166:LYS:C	2.58	0.46
5:AE:101:ILE:H	5:AE:101:ILE:HD13	1.79	0.46
8:AH:24:THR:HG22	8:AH:25:ASP:N	2.30	0.46
12:AL:75:HIS:HD2	12:AL:77:LEU:N	2.12	0.46
22:B0:16:SER:HB3	31:BA:2262:U:OP2	2.16	0.46
24:B2:56:GLN:H	24:B2:56:GLN:CD	2.23	0.46
25:B3:18:ASP:HB2	25:B3:49:LYS:HE3	1.97	0.46
27:B5:47:PRO:C	27:B5:48:GLU:CG	2.88	0.46
31:BA:128:C:H2'	31:BA:129:C:H6	1.80	0.46
31:BA:310:A:C8	31:BA:312:G:C5	3.04	0.46
31:BA:614(A):U:H4'	31:BA:614(B):G:H5"	1.98	0.46
31:BA:942:G:C2'	31:BA:943:U:H5'	2.45	0.46
31:BA:1173:G:H5'	31:BA:1174:A:P	2.56	0.46
31:BA:1279:G:H5'	43:BR:34:ILE:HD11	1.98	0.46
31:BA:1478:G:O2'	31:BA:1558:A:H2	1.97	0.46
31:BA:1531:C:H5'	31:BA:1532:C:OP2	2.16	0.46
31:BA:2273:A:H2'	31:BA:2274:A:C8	2.50	0.46
31:BA:2870:C:H2'	31:BA:2871:C:H5'	1.97	0.46
32:BB:110:G:C6	32:BB:111:G:C5	3.04	0.46
34:BE:10:GLY:HA3	45:BT:8:LYS:HE3	1.97	0.46
36:BG:11:TYR:HA	36:BG:15:VAL:HB	1.98	0.46
36:BG:35:GLU:OE2	36:BG:160:VAL:HB	2.16	0.46
36:BG:163:ALA:O	36:BG:164:GLU:HG2	2.16	0.46
36:BG:171:ALA:O	36:BG:175:LEU:HG	2.15	0.46
37:BH:85:LYS:HE3	37:BH:133:VAL:CB	2.41	0.46
37:BH:89:ILE:O	37:BH:90:LYS:HB2	2.14	0.46
38:BI:57:ARG:C	38:BI:59:ALA:H	2.23	0.46
41:BP:108:LYS:O	41:BP:110:TYR:N	2.48	0.46
41:BP:148:LEU:HD22	41:BP:148:LEU:O	2.15	0.46
42:BQ:140:ALA:C	51:BZ:53:ILE:HB	2.41	0.46
45:BT:28:VAL:HG13	45:BT:46:GLU:CA	2.45	0.46
1:CA:57:G:H2'	1:CA:58:C:O4'	2.15	0.46
1:CA:169:C:C5	1:CA:170:U:C5	3.04	0.46
1:CA:339:C:H2'	1:CA:340:U:C6	2.50	0.46
1:CA:437:U:O3'	4:CD:125:HIS:NE2	2.47	0.46
1:CA:1478:C:O2'	1:CA:1479:C:H5'	2.15	0.46
2:CB:79:ASP:O	2:CB:81:VAL:N	2.49	0.46
2:CB:142:LEU:O	2:CB:146:GLN:HB2	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:92:ALA:HB2	3:CC:99:VAL:HG22	1.98	0.46
3:CC:180:ALA:HB1	3:CC:182:ILE:CG1	2.43	0.46
4:CD:59:ARG:O	4:CD:60:GLU:C	2.56	0.46
5:CE:99:GLY:C	5:CE:116:THR:O	2.58	0.46
10:CJ:8:LEU:HB3	10:CJ:16:LEU:HD21	1.97	0.46
12:CL:75:HIS:HD2	12:CL:77:LEU:N	2.11	0.46
15:CO:32:LEU:O	15:CO:33:THR:C	2.58	0.46
16:CP:53:VAL:O	16:CP:57:ARG:CG	2.61	0.46
24:D2:25:VAL:C	24:D2:27:GLU:N	2.73	0.46
24:D2:55:ARG:NH1	31:DA:72:U:OP1	2.48	0.46
30:D8:35:GLN:CG	31:DA:2420:C:OP1	2.63	0.46
31:DA:150:C:H42	31:DA:176:G:H1	1.62	0.46
31:DA:513:A:N1	31:DA:514:A:C5	2.84	0.46
31:DA:1047:G:H21	31:DA:1111:A:N6	2.04	0.46
31:DA:1131:G:OP2	31:DA:2515:C:H4'	2.15	0.46
31:DA:1384:A:H1'	31:DA:1405:U:O4'	2.15	0.46
31:DA:1486:A:H2'	31:DA:1487:G:C8	2.50	0.46
31:DA:1642:G:O2'	31:DA:1643:G:H5'	2.14	0.46
31:DA:2352:A:C2'	31:DA:2353:G:H5'	2.45	0.46
31:DA:2641:G:OP1	39:DN:75:TYR:HD2	1.98	0.46
31:DA:2789:C:H2'	31:DA:2790:A:OP2	2.16	0.46
31:DA:2810:A:C2'	34:DE:61:ARG:NH2	2.76	0.46
31:DA:2828:C:H2'	31:DA:2829:C:H6	1.81	0.46
33:DD:36:PRO:HA	33:DD:62:TYR:O	2.15	0.46
34:DE:21:VAL:O	34:DE:21:VAL:CG2	2.63	0.46
34:DE:39:PRO:HD3	34:DE:45:THR:OG1	2.15	0.46
35:DF:34:TRP:CE2	41:DP:12:ALA:HB2	2.50	0.46
37:DH:30:LYS:HG2	37:DH:79:VAL:O	2.14	0.46
38:DI:93:THR:HG22	38:DI:119:PRO:HB3	1.96	0.46
40:DO:10:VAL:HG21	40:DO:16:ALA:O	2.15	0.46
40:DO:108:GLU:H	40:DO:108:GLU:HG2	1.43	0.46
41:DP:17:LYS:HB2	41:DP:17:LYS:NZ	2.30	0.46
44:DS:12:PHE:CE1	44:DS:91:PRO:HG3	2.51	0.46
44:DS:74:ALA:HB2	44:DS:101:LEU:HD11	1.97	0.46
45:DT:33:LYS:O	45:DT:40:THR:O	2.34	0.46
46:DU:15:LYS:HG3	46:DU:16:LYS:N	2.31	0.46
46:DU:69:CYS:HB3	46:DU:106:PHE:HZ	1.79	0.46
46:DU:92:ARG:HB2	47:DV:11:GLN:CD	2.40	0.46
47:DV:45:THR:HG22	47:DV:45:THR:O	2.14	0.46
51:DZ:5:LEU:HD23	51:DZ:5:LEU:HA	1.67	0.46
1:AA:255:G:O6	1:AA:266:G:O6	2.33	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:411:A:OP1	4:AD:30:LYS:NZ	2.45	0.46
1:AA:545:C:H5"	4:AD:72:GLU:CG	2.44	0.46
1:AA:577:G:C2	1:AA:578:C:C5	3.04	0.46
1:AA:658:G:C5	1:AA:659:U:H5	2.34	0.46
1:AA:1245:A:N1	1:AA:1293:G:C6	2.84	0.46
1:AA:1418:A:N3	31:BA:1959:G:H1'	2.31	0.46
1:AA:1478:C:H2'	1:AA:1479:C:C6	2.51	0.46
2:AB:24:TRP:CH2	2:AB:26:PRO:HA	2.50	0.46
4:AD:173:TRP:CD1	4:AD:174:LEU:HG	2.51	0.46
5:AE:118:ILE:O	5:AE:118:ILE:HG23	2.16	0.46
12:AL:110:VAL:CG2	12:AL:120:TYR:HB3	2.46	0.46
13:AM:60:VAL:HG12	13:AM:66:LEU:HD21	1.98	0.46
17:AQ:59:ILE:HD13	17:AQ:73:VAL:HA	1.97	0.46
18:AR:56:THR:OG1	18:AR:58:LEU:HD13	2.16	0.46
20:AT:94:ALA:O	20:AT:95:ALA:HB3	2.14	0.46
23:B1:11:ARG:HG2	23:B1:61:ARG:O	2.16	0.46
26:B4:14:ILE:HA	36:BG:5:VAL:HG13	1.98	0.46
27:B5:55:ARG:CD	27:B5:56:LYS:N	2.78	0.46
27:B5:57:VAL:C	27:B5:58:LEU:CG	2.89	0.46
31:BA:9:U:O2'	31:BA:10:G:P	2.74	0.46
31:BA:464:U:C2	31:BA:788:A:C6	3.03	0.46
31:BA:606:U:H4'	31:BA:658:C:H4'	1.97	0.46
31:BA:639:U:H2'	31:BA:640:C:H6	1.80	0.46
31:BA:1279:G:H4'	43:BR:31:HIS:CD2	2.50	0.46
31:BA:1287:A:C5	31:BA:1288:U:C4	3.04	0.46
31:BA:1356:G:C6	31:BA:1357:U:C4	3.04	0.46
31:BA:1451:C:N3	31:BA:1459:G:O6	2.49	0.46
31:BA:2462:U:H2'	31:BA:2463:C:O4'	2.15	0.46
32:BB:107:G:C2'	32:BB:108:U:H5'	2.46	0.46
36:BG:43:LEU:N	36:BG:43:LEU:HD22	2.31	0.46
37:BH:28:GLY:C	37:BH:30:LYS:H	2.22	0.46
37:BH:37:VAL:HG13	37:BH:68:THR:HG21	1.98	0.46
42:BQ:20:ALA:CB	42:BQ:99:PRO:HG2	2.45	0.46
43:BR:13:HIS:O	43:BR:14:SER:C	2.59	0.46
43:BR:42:LYS:O	43:BR:45:ARG:HD3	2.16	0.46
43:BR:104:ARG:HD2	43:BR:111:LEU:HD11	1.98	0.46
44:BS:56:LEU:HD22	44:BS:58:LEU:HB2	1.97	0.46
47:BV:49:THR:HA	47:BV:50:PRO:HD3	1.79	0.46
51:BZ:30:ASN:HB3	51:BZ:90:VAL:HB	1.98	0.46
51:BZ:73:GLN:HG2	51:BZ:87:ASP:CG	2.39	0.46
51:BZ:145:GLU:C	51:BZ:147:GLY:H	2.24	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:17:U:H1'	1:CA:1080:A:H1'	1.98	0.46
1:CA:402:G:C6	1:CA:403:C:C4	3.03	0.46
1:CA:675:A:C4	1:CA:676:A:C8	3.04	0.46
1:CA:734:G:C6	1:CA:735:C:C4	3.03	0.46
1:CA:868:C:H2'	1:CA:869:G:O4'	2.16	0.46
1:CA:881:G:P	12:CL:12:ARG:HH22	2.38	0.46
1:CA:1097:C:C1'	1:CA:1170:A:H1'	2.38	0.46
1:CA:1113:C:O5'	1:CA:1113:C:H6	1.98	0.46
1:CA:1221:G:OP1	1:CA:1321:C:N3	2.49	0.46
2:CB:67:THR:C	2:CB:68:ILE:HD12	2.40	0.46
2:CB:100:GLY:O	2:CB:104:ASN:N	2.48	0.46
2:CB:217:ARG:HA	2:CB:220:ASP:HB2	1.98	0.46
3:CC:11:ARG:O	3:CC:14:ILE:O	2.34	0.46
11:CK:21:ILE:CB	11:CK:84:VAL:HG12	2.45	0.46
12:CL:6:THR:HG23	12:CL:9:GLN:NE2	2.27	0.46
15:CO:36:ILE:HD12	15:CO:63:ARG:HE	1.80	0.46
15:CO:75:PRO:O	15:CO:78:TYR:HB3	2.16	0.46
20:CT:79:ARG:HA	20:CT:82:SER:OG	2.16	0.46
27:D5:55:ARG:CD	27:D5:56:LYS:N	2.79	0.46
30:D8:13:ARG:O	30:D8:14:VAL:HG23	2.15	0.46
30:D8:62:LEU:N	30:D8:63:PRO:HD2	2.31	0.46
31:DA:329:G:H4'	31:DA:330:A:OP2	2.16	0.46
31:DA:384:U:H2'	31:DA:385:C:C6	2.50	0.46
31:DA:459:U:O2'	31:DA:460:A:H5'	2.15	0.46
31:DA:547:A:H2'	31:DA:547:A:N3	2.31	0.46
31:DA:614:U:O2	31:DA:614:U:O4'	2.33	0.46
31:DA:760:G:H2'	31:DA:761:A:O4'	2.15	0.46
31:DA:990:A:OP2	31:DA:991:C:OP2	2.33	0.46
31:DA:1153:C:OP1	46:DU:76:TYR:OH	2.31	0.46
31:DA:1450(A):C:N4	31:DA:1451:C:N4	2.62	0.46
31:DA:1473:G:H2'	31:DA:1474:C:H6	1.79	0.46
31:DA:1582:C:HO2'	31:DA:1586:A:H8	1.50	0.46
31:DA:1826:G:C4	31:DA:1827:C:C6	3.04	0.46
31:DA:1843:C:H2'	31:DA:1844:C:C6	2.51	0.46
31:DA:2392:A:H8	41:DP:60:MET:HG2	1.80	0.46
31:DA:2781:A:H8	31:DA:2781:A:C5'	2.28	0.46
31:DA:2789:C:C2'	31:DA:2790:A:OP2	2.64	0.46
31:DA:2828:C:H2'	31:DA:2829:C:C6	2.51	0.46
31:DA:2889:C:C2'	31:DA:2891:G:H5'	2.44	0.46
32:DB:6:C:HO2'	44:DS:29:PHE:HE1	1.63	0.46
34:DE:101:ARG:HB3	34:DE:169:ASN:ND2	2.31	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DE:129:HIS:O	34:DE:130:GLY:C	2.59	0.46
34:DE:173:VAL:HG12	34:DE:174:ASP:H	1.79	0.46
36:DG:146:TYR:HA	36:DG:149:VAL:HG22	1.98	0.46
37:DH:118:PRO:HG3	37:DH:144:VAL:HG21	1.98	0.46
37:DH:127:GLU:HG2	37:DH:130:ARG:NH2	2.30	0.46
41:DP:64:LYS:C	41:DP:64:LYS:HD3	2.41	0.46
42:DQ:54:MET:O	42:DQ:57:HIS:N	2.49	0.46
42:DQ:140:ALA:HA	51:DZ:99:TYR:HD2	1.75	0.46
43:DR:28:LEU:HD22	43:DR:28:LEU:O	2.15	0.46
43:DR:84:ALA:N	43:DR:85:PRO:CD	2.79	0.46
45:DT:27:THR:C	45:DT:28:VAL:HG23	2.40	0.46
45:DT:49:VAL:HG22	45:DT:49:VAL:O	2.15	0.46
47:DV:36:PRO:HD3	47:DV:60:GLU:O	2.15	0.46
1:AA:242:C:H2'	1:AA:243:A:H5'	1.97	0.46
1:AA:262:A:N6	1:AA:263:A:N6	2.64	0.46
1:AA:316:G:OP2	1:AA:351:G:O2'	2.33	0.46
1:AA:482:A:H2'	1:AA:482:A:N3	2.30	0.46
1:AA:499:A:C4'	1:AA:500:G:OP1	2.63	0.46
1:AA:950:U:C6	13:AM:102:ARG:NH1	2.84	0.46
1:AA:1014:A:C2	19:AS:34:TRP:CE2	3.04	0.46
1:AA:1401:G:C2	1:AA:1402:C:H1'	2.51	0.46
2:AB:97:TRP:CH2	2:AB:176:GLU:CD	2.94	0.46
3:AC:188:LEU:O	3:AC:189:ALA:CB	2.63	0.46
3:AC:207:VAL:HG12	3:AC:207:VAL:O	2.15	0.46
4:AD:108:LEU:HD12	4:AD:174:LEU:HD13	1.96	0.46
5:AE:6:PHE:HD2	5:AE:36:ASP:HB3	1.81	0.46
8:AH:31:PHE:O	8:AH:35:ILE:HG13	2.16	0.46
10:AJ:14:LYS:HE3	10:AJ:14:LYS:HB2	1.77	0.46
14:AN:3:ARG:HB3	14:AN:3:ARG:CZ	2.46	0.46
16:AP:64:ALA:O	16:AP:65:GLN:C	2.58	0.46
25:B3:31:LEU:HD23	25:B3:31:LEU:HA	1.86	0.46
28:B6:26:ASN:ND2	28:B6:32:ASN:ND2	2.64	0.46
28:B6:51:GLU:O	28:B6:52:VAL:HG23	2.15	0.46
30:B8:23:VAL:CG1	30:B8:46:ARG:HB3	2.45	0.46
30:B8:56:GLU:HA	30:B8:59:LYS:HZ1	1.81	0.46
31:BA:92:A:C2'	31:BA:93:G:H5'	2.45	0.46
31:BA:236:C:H2'	31:BA:237:C:C6	2.51	0.46
31:BA:271(N):U:C6	31:BA:271(N):U:OP1	2.69	0.46
31:BA:620:G:H8	31:BA:622:G:O6	1.98	0.46
31:BA:1030:G:OP2	42:BQ:128:LYS:HE2	2.15	0.46
31:BA:1375:C:H2'	31:BA:1376:C:H6	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1488:G:C6	31:BA:1489:U:C2	3.03	0.46
31:BA:1711:C:H2'	31:BA:1712:C:C6	2.50	0.46
31:BA:2412:A:H2'	31:BA:2413:G:O4'	2.15	0.46
31:BA:2753:A:O2'	31:BA:2754:U:P	2.74	0.46
31:BA:2774:C:H2'	31:BA:2775:A:O4'	2.16	0.46
31:BA:2787:C:O2	34:BE:61:ARG:NH1	2.49	0.46
31:BA:2810:A:C4	34:BE:61:ARG:NH2	2.83	0.46
32:BB:10:C:O2'	32:BB:11:C:H5'	2.15	0.46
33:BD:246:PRO:HB2	33:BD:255:LYS:HG3	1.97	0.46
34:BE:21:VAL:O	34:BE:21:VAL:CG2	2.63	0.46
34:BE:59:VAL:HG22	34:BE:59:VAL:O	2.16	0.46
38:BI:69:LYS:HG2	38:BI:69:LYS:O	2.15	0.46
39:BN:15:LEU:O	39:BN:136:GLU:HA	2.16	0.46
39:BN:131:GLN:CD	39:BN:134:ARG:CB	2.86	0.46
44:BS:74:ALA:HB2	44:BS:101:LEU:HD11	1.97	0.46
49:BX:23:GLU:CG	49:BX:24:GLY:N	2.77	0.46
50:BY:14:LEU:HG	50:BY:15:VAL:O	2.16	0.46
50:BY:14:LEU:HD12	50:BY:15:VAL:H	1.80	0.46
1:CA:60:A:H8	1:CA:60:A:P	2.39	0.46
1:CA:92:C:H2'	1:CA:93:G:H8	1.80	0.46
1:CA:437:U:C5	1:CA:438:G:N7	2.84	0.46
1:CA:484:G:H4'	1:CA:485:G:OP1	2.14	0.46
1:CA:938:A:H8	1:CA:938:A:O5'	1.98	0.46
1:CA:997:U:H2'	1:CA:998:G:C8	2.51	0.46
1:CA:1160:G:N2	1:CA:1161:C:C6	2.83	0.46
2:CB:185:ILE:HA	2:CB:199:TYR:O	2.14	0.46
15:CO:43:LEU:C	15:CO:45:VAL:H	2.24	0.46
19:CS:4:SER:O	19:CS:5:LEU:HB2	2.15	0.46
20:CT:53:LEU:HA	20:CT:56:MET:HB2	1.98	0.46
23:D1:26:ARG:HB2	23:D1:34:THR:CA	2.44	0.46
24:D2:29:LYS:HZ2	49:DX:9:LEU:HA	1.80	0.46
25:D3:1:MET:HB2	25:D3:38:GLU:OE2	2.16	0.46
27:D5:41:PRO:HG2	27:D5:44:THR:OG1	2.15	0.46
28:D6:35:GLU:O	28:D6:35:GLU:HG3	2.16	0.46
31:DA:107:C:N3	31:DA:108:U:C5	2.84	0.46
31:DA:146:G:O2'	31:DA:147:U:H5'	2.16	0.46
31:DA:231:C:C2'	31:DA:232:G:H5'	2.46	0.46
31:DA:448:U:C4	31:DA:583:G:H1'	2.51	0.46
31:DA:574:C:N3	34:DE:145:LYS:HE2	2.31	0.46
31:DA:587:C:H5	41:DP:33:ARG:HH11	1.64	0.46
31:DA:780:G:C2	31:DA:782:A:C2	3.04	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1175:U:H4'	31:DA:1176:G:H2'	1.97	0.46
31:DA:1257:C:H4'	35:DF:83:PHE:CD2	2.50	0.46
31:DA:1456:G:C2'	31:DA:1457:A:H5'	2.45	0.46
31:DA:2298:A:H2'	31:DA:2299:G:O4'	2.16	0.46
31:DA:2308:G:C2	31:DA:2309:A:C6	3.03	0.46
31:DA:2500:U:H2'	31:DA:2504:U:C5	2.44	0.46
32:DB:78:A:C2	32:DB:100:A:C4	3.03	0.46
33:DD:27:THR:HG23	33:DD:28:GLU:H	1.69	0.46
34:DE:181:LEU:HD11	45:DT:7:ILE:HG21	1.98	0.46
36:DG:45:GLU:HB2	36:DG:47:LYS:CD	2.45	0.46
36:DG:88:ILE:CG2	36:DG:89:GLY:N	2.78	0.46
40:DO:35:VAL:HG13	40:DO:65:THR:HG22	1.98	0.46
41:DP:45:LEU:HD22	41:DP:46:LYS:N	2.31	0.46
45:DT:30:VAL:HG22	45:DT:84:GLN:O	2.16	0.46
46:DU:39:LEU:O	46:DU:40:PHE:C	2.58	0.46
47:DV:5:VAL:HG22	47:DV:6:LYS:N	2.31	0.46
50:DY:37:VAL:HG23	50:DY:38:ILE:N	2.31	0.46
50:DY:37:VAL:C	50:DY:66:PRO:O	2.59	0.46
1:AA:310:G:OP2	16:AP:27:LYS:NZ	2.44	0.46
1:AA:527:G:O2'	1:AA:528:C:H5'	2.16	0.46
1:AA:579:G:C6	1:AA:580:U:C4	3.04	0.46
1:AA:663:A:C2'	1:AA:664:G:H5'	2.45	0.46
1:AA:737:A:C4	1:AA:738:C:C5	3.04	0.46
1:AA:750:G:C2	1:AA:751:U:C6	3.04	0.46
1:AA:874:G:H2'	1:AA:875:C:H6	1.79	0.46
1:AA:1202:G:H2'	1:AA:1203:C:O4'	2.15	0.46
1:AA:1228:C:H2'	1:AA:1229:A:H8	1.80	0.46
1:AA:1277:C:H6	1:AA:1277:C:H3'	1.80	0.46
4:AD:128:VAL:HA	4:AD:145:GLU:O	2.15	0.46
5:AE:111:GLU:HB3	5:AE:112:LEU:HD23	1.97	0.46
10:AJ:42:THR:HG23	10:AJ:68:HIS:HA	1.98	0.46
11:AK:21:ILE:HD13	11:AK:82:VAL:HG13	1.98	0.46
12:AL:27:LEU:N	12:AL:27:LEU:HD22	2.31	0.46
14:AN:53:LEU:HB3	14:AN:56:VAL:HG21	1.98	0.46
15:AO:36:ILE:CD1	15:AO:63:ARG:HE	2.28	0.46
19:AS:40:ILE:HB	19:AS:67:VAL:O	2.15	0.46
20:AT:56:MET:HG3	20:AT:88:VAL:HG11	1.98	0.46
23:B1:65:SER:OG	23:B1:66:HIS:HD2	1.97	0.46
24:B2:45:SER:HA	24:B2:47:ASN:ND2	2.30	0.46
24:B2:57:ILE:O	24:B2:57:ILE:HG23	2.15	0.46
27:B5:29:THR:O	27:B5:30:LEU:HD23	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:B8:31:HIS:O	30:B8:33:ASN:N	2.49	0.46
31:BA:271(H):G:C6	31:BA:271(Q):G:N1	2.84	0.46
31:BA:336:C:H2'	31:BA:337:C:C6	2.50	0.46
31:BA:456:C:C5	49:BX:66:LEU:HD22	2.50	0.46
31:BA:867:C:C6	31:BA:868:U:C5	3.03	0.46
31:BA:923:C:O2'	31:BA:924:C:H5'	2.15	0.46
31:BA:952:G:C6	31:BA:953:A:N7	2.84	0.46
31:BA:1157:G:H2'	31:BA:1158:C:H5'	1.98	0.46
31:BA:1301:A:C8	31:BA:1303:G:C8	3.03	0.46
31:BA:1437:C:H6	31:BA:1437:C:C5'	2.28	0.46
31:BA:1639:U:H4'	31:BA:2699:C:H4'	1.98	0.46
31:BA:2287:A:C5	31:BA:2289:G:C5	3.04	0.46
31:BA:2663:G:C5	31:BA:2664:G:C5	3.04	0.46
31:BA:2733:A:H2'	31:BA:2734:A:O4'	2.15	0.46
31:BA:2826:A:C2'	31:BA:2827:C:O5'	2.64	0.46
31:BA:2870:C:H2'	31:BA:2871:C:O4'	2.16	0.46
32:BB:65:C:N4	32:BB:109:C:H2'	2.26	0.46
36:BG:130:ASN:HB3	36:BG:160:VAL:HA	1.98	0.46
37:BH:84:SER:O	37:BH:133:VAL:O	2.34	0.46
38:BI:133:HIS:ND1	38:BI:134:PRO:CD	2.77	0.46
39:BN:68:GLU:HA	39:BN:86:PRO:HB2	1.97	0.46
39:BN:78:TYR:N	39:BN:79:PRO:CD	2.79	0.46
41:BP:88:LEU:HD11	41:BP:95:VAL:HG21	1.96	0.46
42:BQ:8:LYS:CD	42:BQ:9:TYR:H	2.27	0.46
42:BQ:43:THR:HB	42:BQ:45:GLN:HG2	1.96	0.46
43:BR:84:ALA:N	43:BR:85:PRO:CD	2.78	0.46
47:BV:90:PRO:HG2	47:BV:91:TYR:N	2.22	0.46
48:BW:70:TYR:CD2	48:BW:70:TYR:N	2.80	0.46
1:CA:102:G:C4	1:CA:103:C:C6	3.03	0.46
1:CA:625:G:C4	1:CA:626:U:C5	3.03	0.46
1:CA:635:G:C4	1:CA:636:U:C6	3.03	0.46
1:CA:671:G:C5	1:CA:672:U:C5	3.04	0.46
1:CA:950:U:C6	13:CM:102:ARG:NH1	2.84	0.46
1:CA:1194:U:H2'	1:CA:1195:C:C6	2.51	0.46
1:CA:1277:C:H3'	1:CA:1277:C:H6	1.81	0.46
1:CA:1426:C:O2'	1:CA:1427:U:H5'	2.16	0.46
2:CB:144:ARG:HG3	2:CB:145:LEU:N	2.31	0.46
4:CD:24:GLU:O	4:CD:27:TYR:HB2	2.15	0.46
4:CD:88:VAL:HG13	5:CE:97:GLY:HA3	1.98	0.46
5:CE:15:ARG:CD	5:CE:26:PHE:CD2	2.99	0.46
5:CE:91:LEU:HD12	5:CE:91:LEU:HA	1.73	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:53:ARG:NH2	18:CR:60:ALA:N	2.59	0.46
18:CR:73:ALA:HB3	18:CR:79:LEU:HD12	1.97	0.46
23:D1:38:SER:CB	31:DA:2080:G:H4'	2.46	0.46
30:D8:26:LYS:HE2	30:D8:47:LYS:HG2	1.97	0.46
30:D8:50:LEU:O	30:D8:52:LYS:N	2.45	0.46
30:D8:59:LYS:HD3	41:DP:50:ARG:HB3	1.98	0.46
31:DA:197:A:N6	31:DA:2430:A:H2'	2.31	0.46
31:DA:250:G:C6	31:DA:251:A:C6	3.04	0.46
31:DA:498:G:O2'	31:DA:499:U:H5'	2.14	0.46
31:DA:814:C:H5"	47:DV:86:GLY:HA3	1.97	0.46
31:DA:1586:A:C2	31:DA:1587:A:C5	3.03	0.46
31:DA:1722:A:H2	31:DA:1740:G:H2'	1.79	0.46
31:DA:1948:G:C2'	31:DA:1949:G:H5'	2.46	0.46
31:DA:2094:G:O2'	31:DA:2095:C:H5'	2.16	0.46
31:DA:2287:A:O2'	31:DA:2288:A:H3'	2.16	0.46
31:DA:2558:C:C2'	31:DA:2559:C:O5'	2.64	0.46
31:DA:2722:G:O2'	43:DR:5:LYS:HB2	2.16	0.46
31:DA:2724:C:OP2	43:DR:2:ARG:CZ	2.63	0.46
31:DA:2821:A:H2'	31:DA:2822:G:H8	1.80	0.46
32:DB:25:A:H2'	32:DB:26:A:O4'	2.16	0.46
33:DD:4:LYS:HB2	33:DD:18:VAL:HG12	1.98	0.46
35:DF:153:SER:OG	35:DF:190:GLU:HG3	2.16	0.46
36:DG:42:GLY:O	36:DG:44:GLY:N	2.49	0.46
36:DG:137:GLU:OE2	36:DG:139:LEU:HD11	2.16	0.46
36:DG:178:PHE:O	36:DG:180:PHE:CD1	2.68	0.46
37:DH:83:TYR:HB2	37:DH:84:SER:H	1.51	0.46
39:DN:27:ALA:HB3	39:DN:106:MET:HE1	1.96	0.46
40:DO:10:VAL:CG2	40:DO:16:ALA:O	2.64	0.46
41:DP:55:ARG:O	41:DP:56:SER:OG	2.33	0.46
43:DR:34:ILE:HD12	43:DR:34:ILE:HA	1.67	0.46
44:DS:29:PHE:H	44:DS:89:ARG:CD	2.26	0.46
51:DZ:61:LEU:HB2	51:DZ:65:GLN:CB	2.44	0.46
51:DZ:61:LEU:HD12	51:DZ:67:LEU:HD13	1.98	0.46
1:AA:189(A):C:O2'	1:AA:189(B):C:H5'	2.16	0.46
1:AA:872:A:C2	1:AA:874:G:C6	3.04	0.46
1:AA:920:U:H2'	1:AA:921:U:H6	1.79	0.46
1:AA:961:U:C4	1:AA:962:C:C4	3.04	0.46
1:AA:1074:G:C2	1:AA:1075:C:C2	3.03	0.46
1:AA:1287:A:C6	1:AA:1288:A:C6	3.04	0.46
1:AA:1287:A:H2	1:AA:1353:G:N3	2.14	0.46
2:AB:178:ARG:HH21	8:AH:68:ARG:HH22	1.63	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:113:ALA:C	3:AC:115:LEU:N	2.72	0.46
7:AG:26:PHE:CD1	7:AG:62:PHE:HE1	2.34	0.46
13:AM:44:ARG:CB	13:AM:46:LYS:HG2	2.46	0.46
18:AR:45:SER:CB	18:AR:51:LEU:HD21	2.43	0.46
22:B0:53:MET:HA	22:B0:58:THR:O	2.15	0.46
22:B0:73:GLY:C	22:B0:75:LEU:H	2.24	0.46
22:B0:73:GLY:C	22:B0:75:LEU:N	2.71	0.46
23:B1:38:SER:CB	31:BA:2080:G:H4'	2.46	0.46
23:B1:67:ILE:N	23:B1:68:PRO:CD	2.72	0.46
31:BA:53:A:H61	31:BA:117:G:C2'	2.29	0.46
31:BA:80:G:N2	31:BA:81:G:H1'	2.31	0.46
31:BA:376:C:N4	31:BA:398:G:H1	2.13	0.46
31:BA:500:G:N2	31:BA:502:A:H3'	2.31	0.46
31:BA:721:C:H2'	31:BA:722:A:C8	2.51	0.46
31:BA:725:G:C6	31:BA:726:G:N1	2.83	0.46
31:BA:1142(A):A:C8	31:BA:1144:G:C5	3.04	0.46
31:BA:1925:C:C2'	31:BA:1926:U:H5'	2.45	0.46
31:BA:2476:A:N1	31:BA:2477:C:C6	2.84	0.46
31:BA:2616:C:H2'	31:BA:2617:C:H6	1.81	0.46
31:BA:2740:A:C6	31:BA:2764:A:C8	3.04	0.46
31:BA:2835:A:C5	31:BA:2879:C:C5	3.04	0.46
32:BB:21:G:O2'	32:BB:22:U:C5'	2.64	0.46
33:BD:28:GLU:CB	33:BD:29:PRO:HD3	2.45	0.46
33:BD:45:ASN:OD1	33:BD:45:ASN:C	2.59	0.46
33:BD:65:ILE:HD11	33:BD:67:PHE:CD1	2.43	0.46
37:BH:45:VAL:O	37:BH:45:VAL:HG12	2.15	0.46
40:BO:87:ILE:HD13	40:BO:87:ILE:HA	1.49	0.46
41:BP:103:ALA:O	41:BP:104:GLY:C	2.59	0.46
42:BQ:12:GLN:HG2	42:BQ:73:PRO:HD2	1.96	0.46
42:BQ:56:ARG:HD2	42:BQ:56:ARG:HA	1.61	0.46
44:BS:106:ARG:HE	44:BS:106:ARG:HB3	1.28	0.46
45:BT:16:ARG:HD3	45:BT:16:ARG:HA	1.67	0.46
46:BU:10:ARG:O	46:BU:11:ARG:C	2.59	0.46
47:BV:24:LYS:HA	47:BV:94:LEU:HD12	1.98	0.46
47:BV:75:PHE:CD1	47:BV:89:GLN:HB3	2.49	0.46
49:BX:3:THR:HA	49:BX:6:ASP:OD2	2.16	0.46
49:BX:39:ILE:HG12	49:BX:40:LYS:N	2.30	0.46
51:BZ:127:LYS:HB3	51:BZ:162:GLU:HG3	1.97	0.46
1:CA:9:G:H2'	1:CA:10:A:C8	2.50	0.46
1:CA:322:C:OP2	1:CA:328:C:N4	2.49	0.46
1:CA:386:C:H2'	1:CA:387:U:C5'	2.46	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:758:G:H2'	1:CA:759:A:OP2	2.16	0.46
2:CB:61:LEU:CA	2:CB:64:ARG:HG2	2.44	0.46
15:CO:26:GLU:OE2	15:CO:77:ARG:NH1	2.49	0.46
18:CR:66:LEU:CD1	18:CR:70:ILE:HD11	2.45	0.46
25:D3:17:LYS:HE2	31:DA:969:U:OP1	2.16	0.46
27:D5:16:ARG:NH2	31:DA:517:C:OP1	2.49	0.46
28:D6:51:GLU:O	28:D6:52:VAL:CG2	2.64	0.46
30:D8:6:THR:HB	30:D8:63:PRO:CG	2.34	0.46
31:DA:67:U:O2'	31:DA:68:G:H5'	2.16	0.46
31:DA:105:C:H2'	31:DA:106:C:C6	2.51	0.46
31:DA:309:G:O3'	50:DY:18:GLY:CA	2.64	0.46
31:DA:310:A:OP1	50:DY:17:SER:O	2.33	0.46
31:DA:481:G:C4	31:DA:507:A:C2	3.03	0.46
31:DA:672:C:H2'	31:DA:673:C:C6	2.50	0.46
31:DA:1015:G:H2'	31:DA:1016:G:H5'	1.98	0.46
31:DA:1141:U:C6	39:DN:63:THR:HB	2.51	0.46
31:DA:1205:U:C3'	31:DA:1206:G:H5'	2.46	0.46
31:DA:1458:C:H4'	31:DA:1459:G:C4	2.51	0.46
31:DA:1614:A:N6	48:DW:88:ARG:H	2.13	0.46
31:DA:1831:G:C4	31:DA:1832:C:C5	3.04	0.46
31:DA:2046:G:C4	31:DA:2047:U:C5	3.03	0.46
31:DA:2272:U:H5"	31:DA:2273:A:P	2.55	0.46
31:DA:2404:C:O3'	41:DP:77:ARG:NH2	2.49	0.46
31:DA:2702:U:O2'	31:DA:2703:C:C6	2.69	0.46
34:DE:119:ARG:HG2	34:DE:160:TYR:CG	2.50	0.46
35:DF:27:GLU:O	35:DF:112:MET:HE2	2.16	0.46
35:DF:29:ASN:O	35:DF:30:PRO:C	2.58	0.46
35:DF:31:HIS:O	35:DF:34:TRP:HB3	2.16	0.46
35:DF:123:LEU:HD12	35:DF:124:LEU:H	1.81	0.46
36:DG:171:ALA:O	36:DG:175:LEU:HG	2.15	0.46
37:DH:83:TYR:HA	37:DH:135:GLY:O	2.15	0.46
41:DP:101:VAL:HB	41:DP:106:LEU:HB3	1.96	0.46
42:DQ:83:MET:CG	42:DQ:83:MET:O	2.62	0.46
43:DR:53:HIS:CD2	43:DR:94:TYR:OH	2.60	0.46
43:DR:65:LEU:HD12	43:DR:65:LEU:HA	1.76	0.46
44:DS:89:ARG:O	44:DS:92:TYR:CB	2.58	0.46
45:DT:31:SER:OG	45:DT:43:GLN:HB3	2.16	0.46
46:DU:14:HIS:CD2	46:DU:32:PHE:CB	2.99	0.46
47:DV:5:VAL:HG21	47:DV:36:PRO:HG2	1.96	0.46
47:DV:49:THR:HA	47:DV:50:PRO:HD3	1.79	0.46
47:DV:85:LYS:C	47:DV:87:HIS:N	2.67	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DX:31:HIS:HD2	49:DX:33:LYS:N	2.13	0.46
49:DX:57:LEU:O	49:DX:76:ARG:N	2.49	0.46
49:DX:89:ILE:O	49:DX:89:ILE:CG2	2.64	0.46
1:AA:382:A:C2	1:AA:383:A:C5	3.04	0.46
1:AA:559:A:C8	1:AA:561:U:C5	3.03	0.46
1:AA:691:G:H2'	1:AA:692:U:C6	2.51	0.46
1:AA:778:G:C2'	1:AA:779:C:O5'	2.64	0.46
1:AA:938:A:H8	1:AA:938:A:O5'	1.99	0.46
1:AA:1154:G:H2'	1:AA:1155:G:C8	2.49	0.46
1:AA:1228:C:H2'	1:AA:1229:A:C8	2.51	0.46
11:AK:125:PHE:N	11:AK:125:PHE:CD1	2.83	0.46
12:AL:60:LEU:HA	12:AL:60:LEU:HD13	1.82	0.46
12:AL:62:SER:C	12:AL:64:TYR:N	2.74	0.46
14:AN:51:GLY:C	14:AN:53:LEU:N	2.73	0.46
22:B0:56:ASP:OD2	31:BA:2364:C:H4'	2.15	0.46
24:B2:53:LEU:HA	24:B2:56:GLN:HE22	1.80	0.46
29:B7:24:THR:HG23	29:B7:27:GLY:N	2.32	0.46
31:BA:768:G:C6	31:BA:769:G:C5	3.04	0.46
31:BA:945:A:O3'	31:BA:946:G:H4'	2.16	0.46
31:BA:1142(A):A:C8	31:BA:1142(A):A:H5'	2.51	0.46
31:BA:1528(A):A:C8	31:BA:1529:G:C8	3.04	0.46
31:BA:1655:A:H3'	31:BA:1656:C:C6	2.51	0.46
31:BA:2063:C:C5	31:BA:2064:C:C5	3.04	0.46
31:BA:2298:A:H2'	31:BA:2299:G:O4'	2.16	0.46
31:BA:2404:C:C2'	31:BA:2405:G:H5'	2.41	0.46
31:BA:2789:C:C2'	31:BA:2790:A:OP2	2.64	0.46
31:BA:2792:G:H2'	31:BA:2792:G:N3	2.30	0.46
35:BF:20:LEU:O	35:BF:23:ASP:HB2	2.16	0.46
35:BF:202:PHE:C	35:BF:204:ASN:N	2.72	0.46
42:BQ:141:GLN:HG2	51:BZ:72:ARG:HA	1.98	0.46
48:BW:55:ALA:O	48:BW:56:ALA:C	2.58	0.46
49:BX:89:ILE:O	49:BX:89:ILE:CG2	2.63	0.46
50:BY:32:PRO:C	50:BY:34:LYS:N	2.72	0.46
51:BZ:44:PHE:CZ	51:BZ:48:PHE:HD2	2.34	0.46
51:BZ:151:HIS:O	51:BZ:152:ALA:C	2.58	0.46
1:CA:92:C:H2'	1:CA:93:G:C8	2.51	0.46
1:CA:254:G:O2'	1:CA:255:G:H5'	2.16	0.46
1:CA:427:U:C4	1:CA:428:G:C6	3.04	0.46
1:CA:502:G:C2	1:CA:503:C:C2	3.04	0.46
1:CA:718:G:H5'	11:CK:117:ASN:HB2	1.98	0.46
1:CA:827:U:H5"	1:CA:828:A:OP2	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:979:C:OP1	1:CA:1222:G:O6	2.34	0.46
1:CA:992:U:C1'	1:CA:993:G:OP2	2.63	0.46
1:CA:1245:A:N1	1:CA:1293:G:C6	2.84	0.46
1:CA:1300:G:O2'	1:CA:1301:U:OP2	2.32	0.46
2:CB:17:PHE:HD2	2:CB:17:PHE:H	1.64	0.46
5:CE:82:VAL:HG21	5:CE:138:ALA:HA	1.98	0.46
6:CF:1:MET:HE2	6:CF:1:MET:N	2.31	0.46
7:CG:115:ARG:O	7:CG:119:ARG:HG3	2.16	0.46
8:CH:33:GLU:O	8:CH:34:GLU:C	2.59	0.46
11:CK:65:ALA:O	11:CK:68:ALA:HB3	2.16	0.46
11:CK:106:LYS:O	11:CK:106:LYS:HG3	2.17	0.46
12:CL:75:HIS:CD2	12:CL:77:LEU:H	2.27	0.46
13:CM:78:ILE:HA	13:CM:81:LEU:HD12	1.98	0.46
16:CP:55:ARG:HA	16:CP:55:ARG:HE	1.80	0.46
18:CR:78:LEU:H	18:CR:78:LEU:HG	1.48	0.46
28:D6:20:ASN:OD1	28:D6:21:TYR:N	2.50	0.46
30:D8:35:GLN:OE1	31:DA:2421:G:OP2	2.34	0.46
31:DA:9:U:O2'	31:DA:10:G:P	2.74	0.46
31:DA:309:G:O2'	31:DA:329:G:C8	2.68	0.46
31:DA:354:G:H2'	31:DA:355:G:H8	1.81	0.46
31:DA:445:C:O2'	31:DA:446:G:H5'	2.16	0.46
31:DA:628:G:C6	31:DA:629:G:C6	3.04	0.46
31:DA:955:C:C2'	31:DA:955:C:O2	2.63	0.46
31:DA:1006:C:H1'	39:DN:106:MET:HB3	1.97	0.46
31:DA:1191:G:OP1	41:DP:35:HIS:ND1	2.49	0.46
31:DA:1207:C:H2'	31:DA:1208:C:C6	2.51	0.46
31:DA:1623:G:O2'	31:DA:1624:G:H5'	2.16	0.46
31:DA:2256:G:H2'	31:DA:2257:U:H6	1.81	0.46
32:DB:45:A:C2	32:DB:46:A:C1'	2.99	0.46
34:DE:9:VAL:HG22	34:DE:25:VAL:HB	1.98	0.46
34:DE:21:VAL:HG23	34:DE:23:VAL:HG13	1.98	0.46
34:DE:110:GLY:O	43:DR:2:ARG:HB3	2.15	0.46
34:DE:111:ARG:HD2	34:DE:160:TYR:CD1	2.51	0.46
35:DF:141:ALA:O	35:DF:144:LYS:HB3	2.16	0.46
37:DH:13:LYS:C	37:DH:15:VAL:H	2.24	0.46
37:DH:46:GLU:HG3	37:DH:51:ARG:HB3	1.97	0.46
37:DH:103:LEU:HD11	37:DH:105:LEU:CD1	2.46	0.46
37:DH:153:LYS:HE2	37:DH:154:PRO:O	2.15	0.46
39:DN:83:LYS:HE2	39:DN:85:ILE:HD11	1.98	0.46
44:DS:59:LYS:NZ	44:DS:68:GLN:NE2	2.64	0.46
44:DS:65:VAL:O	44:DS:69:VAL:HG12	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DW:8:ARG:HA	48:DW:102:HIS:CD2	2.50	0.46
1:AA:236:G:C6	1:AA:237:C:C4	3.03	0.45
1:AA:763:G:C5	1:AA:764:C:C5	3.04	0.45
1:AA:929:G:H1	1:AA:1388:C:N4	2.00	0.45
1:AA:1060:C:H4'	10:AJ:51:ARG:HB3	1.98	0.45
1:AA:1187:G:C6	1:AA:1188:A:C6	3.05	0.45
1:AA:1319:A:H61	1:AA:1361:G:H21	1.63	0.45
1:AA:1472:U:O2'	1:AA:1473:A:H5'	2.15	0.45
2:AB:91:PRO:HG3	2:AB:154:LEU:HB2	1.98	0.45
2:AB:101:MET:HG2	2:AB:108:ILE:HG21	1.98	0.45
2:AB:158:LEU:HD12	2:AB:158:LEU:H	1.79	0.45
3:AC:3:ASN:OD1	3:AC:3:ASN:N	2.49	0.45
5:AE:11:ILE:HB	5:AE:31:LEU:HB3	1.97	0.45
6:AF:10:LEU:HA	6:AF:84:ASN:O	2.16	0.45
9:AI:3:GLN:O	9:AI:4:TYR:HD1	1.97	0.45
12:AL:76:ASN:O	12:AL:76:ASN:CG	2.59	0.45
15:AO:82:ILE:CD1	15:AO:88:ARG:HG3	2.46	0.45
20:AT:64:ASP:OD2	20:AT:81:LYS:NZ	2.44	0.45
23:B1:64:ALA:C	23:B1:67:ILE:HD11	2.41	0.45
23:B1:94:LEU:CD2	23:B1:95:LEU:N	2.79	0.45
25:B3:17:LYS:O	25:B3:18:ASP:C	2.59	0.45
25:B3:17:LYS:HD3	25:B3:17:LYS:HA	1.57	0.45
26:B4:5:ILE:O	36:BG:67:LYS:HG2	2.16	0.45
31:BA:171:G:H2'	31:BA:172:C:C1'	2.44	0.45
31:BA:460:A:H2'	31:BA:461:C:O4'	2.16	0.45
31:BA:623:G:H2'	31:BA:624:C:C6	2.51	0.45
31:BA:863:A:C2'	31:BA:864:G:H5'	2.46	0.45
31:BA:902:C:O2'	31:BA:903:C:H5'	2.16	0.45
31:BA:1256:G:H5'	31:BA:1257:C:OP2	2.16	0.45
31:BA:1324:G:C2	31:BA:1328:G:N1	2.85	0.45
31:BA:1368:G:C2	31:BA:1369:G:C8	3.05	0.45
31:BA:1464:C:C2'	31:BA:1528:A:H8	2.29	0.45
31:BA:2399:G:H2'	31:BA:2400:G:O4'	2.16	0.45
31:BA:2406:U:C4	41:BP:72:PRO:HD2	2.51	0.45
32:BB:44:G:H1'	32:BB:47:C:H42	1.80	0.45
36:BG:45:GLU:HB2	36:BG:47:LYS:CG	2.46	0.45
36:BG:63:ILE:HD12	36:BG:63:ILE:O	2.16	0.45
38:BI:53:ALA:C	38:BI:55:ALA:N	2.74	0.45
38:BI:130:TYR:CB	38:BI:136:VAL:HG13	2.40	0.45
39:BN:36:GLY:N	39:BN:42:TRP:CZ3	2.83	0.45
39:BN:85:ILE:HD12	39:BN:90:MET:HE3	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BP:16:ARG:CZ	41:BP:16:ARG:HB2	2.46	0.45
45:BT:53:ARG:O	45:BT:53:ARG:HG2	2.02	0.45
49:BX:24:GLY:HA3	49:BX:80:ILE:CG1	2.30	0.45
51:BZ:48:PHE:O	51:BZ:49:ARG:C	2.57	0.45
1:CA:155:C:H2'	1:CA:156:G:C8	2.51	0.45
1:CA:156:G:C6	1:CA:166:G:N1	2.85	0.45
1:CA:715:A:H2'	1:CA:716:A:C8	2.51	0.45
1:CA:744:C:O2'	1:CA:745:C:H5'	2.16	0.45
1:CA:779:C:O2'	11:CK:120:ARG:HD3	2.16	0.45
1:CA:933:G:N2	1:CA:1385:G:C4	2.84	0.45
1:CA:1080:A:H5"	1:CA:1081:G:OP2	2.16	0.45
1:CA:1442:G:C5	1:CA:1442(B):A:N1	2.84	0.45
1:CA:1442(B):A:C2	45:DT:118:ARG:CZ	2.99	0.45
2:CB:97:TRP:HH2	2:CB:176:GLU:HG3	1.81	0.45
3:CC:134:ILE:HG22	3:CC:168:ALA:HB3	1.98	0.45
4:CD:131:ARG:HD3	4:CD:131:ARG:N	2.31	0.45
6:CF:52:ILE:O	6:CF:53:ALA:CB	2.63	0.45
10:CJ:32:ALA:H	10:CJ:78:ASN:HD21	1.64	0.45
17:CQ:68:ARG:HG3	17:CQ:68:ARG:O	2.16	0.45
18:CR:51:LEU:HB2	18:CR:56:THR:HG22	1.98	0.45
24:D2:30:ARG:HH21	49:DX:11:PRO:HG3	1.79	0.45
26:D4:5:ILE:C	36:DG:67:LYS:HG2	2.41	0.45
26:D4:14:ILE:HA	36:DG:5:VAL:HG13	1.97	0.45
28:D6:26:ASN:HD22	28:D6:32:ASN:HD21	1.63	0.45
30:D8:30:ARG:HB3	31:DA:2393:A:OP2	2.16	0.45
31:DA:284:U:H2'	31:DA:285:C:C6	2.49	0.45
31:DA:455:C:N3	31:DA:472:A:H2'	2.31	0.45
31:DA:572:A:H2'	31:DA:573:G:O4'	2.16	0.45
31:DA:577:G:C6	31:DA:578:A:C6	3.04	0.45
31:DA:869:G:H2'	31:DA:870:A:O4'	2.16	0.45
31:DA:968:G:H2'	31:DA:969:U:C6	2.51	0.45
31:DA:993:G:N3	47:DV:91:TYR:HE1	2.15	0.45
31:DA:1142(A):A:C8	31:DA:1144:G:C5	3.04	0.45
31:DA:1701:A:H2'	31:DA:1702:G:H5'	1.98	0.45
31:DA:2052:G:O4'	34:DE:142:GLY:HA3	2.16	0.45
31:DA:2494:G:C5	31:DA:2495:G:N7	2.84	0.45
31:DA:2749:A:H4'	37:DH:62:LYS:HB3	1.96	0.45
32:DB:89:G:C6	32:DB:90:A:N6	2.84	0.45
34:DE:27:LEU:HD12	34:DE:181:LEU:CD1	2.45	0.45
34:DE:36:ARG:HG2	34:DE:36:ARG:NH1	2.31	0.45
34:DE:130:GLY:O	34:DE:131:ALA:O	2.34	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DF:57:VAL:HG12	35:DF:59:TYR:H	1.81	0.45
36:DG:16:ARG:N	36:DG:17:PRO:HD2	2.32	0.45
36:DG:89:GLY:O	36:DG:90:LEU:C	2.58	0.45
38:DI:83:ALA:HB2	38:DI:88:ILE:HD13	1.98	0.45
39:DN:2:LYS:HD3	46:DU:95:LEU:CD2	2.46	0.45
39:DN:13:TRP:O	39:DN:135:PRO:HG2	2.16	0.45
41:DP:39:LYS:HD3	41:DP:39:LYS:HA	1.74	0.45
41:DP:57:THR:O	41:DP:58:THR:CB	2.64	0.45
41:DP:64:LYS:O	41:DP:64:LYS:HD3	2.16	0.45
41:DP:107:LYS:C	41:DP:109:GLY:N	2.70	0.45
46:DU:88:ILE:CA	46:DU:90:VAL:HG23	2.46	0.45
49:DX:88:LYS:N	49:DX:88:LYS:HD2	2.30	0.45
50:DY:44:ILE:H	50:DY:44:ILE:HG13	1.50	0.45
50:DY:45:VAL:CG2	50:DY:62:GLU:HB2	2.45	0.45
1:AA:31:G:H5'	1:AA:306:G:N2	2.31	0.45
1:AA:450:G:N7	1:AA:481:G:C6	2.84	0.45
1:AA:684:A:C6	1:AA:685:G:C6	3.04	0.45
1:AA:715:A:H2'	1:AA:716:A:C8	2.51	0.45
1:AA:807:A:H2'	1:AA:808:C:C6	2.51	0.45
1:AA:926:G:C6	1:AA:1505:G:C6	3.04	0.45
1:AA:938:A:C6	1:AA:939:G:C5	3.04	0.45
1:AA:992:U:C1'	1:AA:993:G:OP2	2.63	0.45
2:AB:28:PHE:HD2	2:AB:194:PRO:HD3	1.80	0.45
2:AB:172:ILE:H	2:AB:172:ILE:CD1	2.12	0.45
4:AD:88:VAL:HG13	5:AE:97:GLY:HA3	1.98	0.45
11:AK:81:ASP:OD2	11:AK:106:LYS:HG2	2.16	0.45
17:AQ:67:LYS:CA	17:AQ:70:ARG:HH12	2.24	0.45
18:AR:86:VAL:O	18:AR:87:ARG:HB3	2.16	0.45
20:AT:67:ALA:O	20:AT:73:HIS:CE1	2.70	0.45
20:AT:84:LEU:HD13	20:AT:84:LEU:C	2.41	0.45
23:B1:10:LYS:HB2	23:B1:14:VAL:C	2.41	0.45
23:B1:16:ASN:ND2	23:B1:16:ASN:C	2.74	0.45
24:B2:34:GLU:O	24:B2:34:GLU:CG	2.63	0.45
31:BA:30:G:H2'	31:BA:31:C:C6	2.51	0.45
31:BA:341:G:H2'	31:BA:342:G:O5'	2.16	0.45
31:BA:528:A:C2'	31:BA:529:A:H5'	2.46	0.45
31:BA:574:C:H1'	31:BA:2055:C:C6	2.52	0.45
31:BA:943:U:O2'	31:BA:944:G:H5'	2.16	0.45
31:BA:2699:C:H2'	31:BA:2700:C:O4'	2.16	0.45
31:BA:2809:A:C2	31:BA:2892:A:N3	2.84	0.45
34:BE:129:HIS:O	34:BE:130:GLY:C	2.57	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:11:TYR:HD2	36:BG:12:TYR:CD1	2.35	0.45
37:BH:30:LYS:HZ3	37:BH:81:GLU:HA	1.78	0.45
38:BI:71:ILE:HG13	38:BI:72:LEU:CD2	2.45	0.45
38:BI:78:THR:HA	38:BI:141:LYS:O	2.16	0.45
39:BN:128:HIS:CE1	39:BN:134:ARG:CD	3.00	0.45
44:BS:67:ARG:C	44:BS:69:VAL:N	2.72	0.45
45:BT:16:ARG:H	45:BT:79:HIS:CD2	2.34	0.45
45:BT:78:LEU:C	45:BT:79:HIS:ND1	2.74	0.45
45:BT:118:ARG:HA	45:BT:121:ILE:HB	1.98	0.45
47:BV:86:GLY:O	47:BV:87:HIS:CD2	2.70	0.45
48:BW:9:TYR:N	48:BW:102:HIS:HD2	2.00	0.45
1:CA:79:G:H4'	1:CA:80:G:OP1	2.16	0.45
1:CA:250:A:H1'	1:CA:251:G:OP2	2.17	0.45
1:CA:439:A:C4	1:CA:496:A:C2	3.04	0.45
1:CA:691:G:H2'	1:CA:692:U:C6	2.51	0.45
1:CA:854:G:OP2	1:CA:871:U:C5	2.69	0.45
1:CA:961:U:C4	1:CA:962:C:C4	3.04	0.45
1:CA:1350:A:OP1	9:CI:121:ARG:HG3	2.16	0.45
2:CB:96:ARG:O	2:CB:98:LEU:N	2.50	0.45
3:CC:106:VAL:HG12	3:CC:108:ASN:H	1.81	0.45
7:CG:22:LEU:HG	7:CG:62:PHE:HE2	1.81	0.45
11:CK:15:ALA:HA	11:CK:77:MET:HA	1.97	0.45
19:CS:49:ILE:H	19:CS:49:ILE:HD12	1.81	0.45
20:CT:36:LEU:O	20:CT:37:SER:C	2.58	0.45
20:CT:64:ASP:OD2	20:CT:81:LYS:NZ	2.46	0.45
23:D1:59:THR:HG22	23:D1:60:PHE:N	2.30	0.45
24:D2:41:ILE:HG12	31:DA:94(A):G:N2	2.32	0.45
24:D2:44:LEU:HA	24:D2:44:LEU:HD13	1.48	0.45
27:D5:40:LYS:NZ	27:D5:46:CYS:HB3	2.31	0.45
30:D8:61:LEU:CD1	31:DA:593:G:O2'	2.63	0.45
31:DA:105:C:H2'	31:DA:106:C:H6	1.80	0.45
31:DA:958:U:OP2	42:DQ:14:ARG:NH1	2.49	0.45
31:DA:1266:G:O2'	31:DA:2012:G:O6	2.26	0.45
31:DA:1473:G:H2'	31:DA:1474:C:C6	2.50	0.45
31:DA:1665:A:H1'	40:DO:1:MET:HG2	1.98	0.45
31:DA:1916:A:H2'	31:DA:1917:U:O4'	2.17	0.45
31:DA:1945:G:H2'	31:DA:1946:U:C6	2.52	0.45
31:DA:2590:A:O2'	31:DA:2591:C:H5'	2.15	0.45
31:DA:2631:G:N2	34:DE:61:ARG:NH1	2.63	0.45
32:DB:13:A:O2'	32:DB:14:U:H3'	2.16	0.45
34:DE:65:GLY:C	34:DE:67:PHE:N	2.68	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DF:160:ASN:ND2	35:DF:162:LEU:HB2	2.27	0.45
37:DH:95:ARG:HA	37:DH:128:PRO:O	2.17	0.45
40:DO:71:ARG:HE	40:DO:105:GLU:CD	2.23	0.45
41:DP:21:ARG:O	41:DP:23:PRO:HD3	2.17	0.45
42:DQ:20:ALA:CB	42:DQ:99:PRO:HG2	2.46	0.45
45:DT:80:SER:HB3	45:DT:81:PRO:HD3	1.98	0.45
45:DT:92:GLY:HA2	45:DT:114:LEU:HB3	1.97	0.45
46:DU:92:ARG:O	46:DU:95:LEU:N	2.49	0.45
47:DV:24:LYS:HA	47:DV:94:LEU:HD12	1.97	0.45
48:DW:66:GLU:O	48:DW:68:ARG:N	2.49	0.45
51:DZ:10:ARG:HH21	51:DZ:26:GLY:H	1.63	0.45
51:DZ:30:ASN:OD1	51:DZ:33:LEU:HB3	2.17	0.45
51:DZ:77:ASP:O	51:DZ:77:ASP:CG	2.58	0.45
1:AA:283:C:H2'	1:AA:284:G:O4'	2.17	0.45
1:AA:303:A:C4	1:AA:304:U:C6	3.05	0.45
1:AA:502:G:C6	1:AA:503:C:N3	2.84	0.45
1:AA:781:A:C2'	1:AA:782:A:H5'	2.45	0.45
1:AA:782:A:O3'	1:AA:1515:C:H4'	2.16	0.45
1:AA:833:U:O2	1:AA:854:G:C2	2.69	0.45
1:AA:1012:U:O5'	1:AA:1012:U:H6	1.98	0.45
1:AA:1057:G:C5	1:AA:1204:A:C2	3.04	0.45
1:AA:1272:G:C6	1:AA:1273:G:C5	3.04	0.45
1:AA:1278:U:O4	10:AJ:99:LYS:HE3	2.17	0.45
2:AB:158:LEU:H	2:AB:158:LEU:CD1	2.30	0.45
4:AD:117:ALA:O	4:AD:121:VAL:HG23	2.15	0.45
10:AJ:63:PHE:CZ	14:AN:45:ARG:HG3	2.43	0.45
10:AJ:95:GLU:C	10:AJ:96:ILE:HD13	2.41	0.45
11:AK:34:ASP:HB2	11:AK:35:PRO:HD2	1.97	0.45
18:AR:65:ILE:H	18:AR:65:ILE:HG13	1.38	0.45
18:AR:73:ALA:HB3	18:AR:79:LEU:HD12	1.98	0.45
22:B0:82:ARG:HA	22:B0:83:PRO:HD2	1.79	0.45
23:B1:91:LYS:O	23:B1:92:LYS:HD2	2.16	0.45
24:B2:31:GLU:CG	24:B2:37:PHE:HD1	2.27	0.45
24:B2:33:MET:SD	24:B2:33:MET:N	2.89	0.45
30:B8:31:HIS:HB3	31:BA:2420:C:H41	1.81	0.45
30:B8:61:LEU:CD1	31:BA:593:G:O2'	2.64	0.45
31:BA:448:U:H3'	31:BA:449:A:H5'	1.98	0.45
31:BA:751:A:C5'	48:BW:90:ARG:HA	2.43	0.45
31:BA:1225:G:OP1	47:BV:88:ARG:HD2	2.16	0.45
31:BA:1272:A:OP2	31:BA:1647:G:OP1	2.34	0.45
31:BA:1291:C:H2'	31:BA:1292:U:C6	2.51	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1330:C:O2'	31:BA:1331:A:H5'	2.17	0.45
31:BA:1434:A:O2'	31:BA:1435:G:H5'	2.15	0.45
31:BA:1602:U:H3'	31:BA:1603:A:H5'	1.97	0.45
31:BA:1689:A:H62	31:BA:1698:A:H2	1.64	0.45
31:BA:1810:A:C2'	31:BA:1811:G:H5'	2.45	0.45
31:BA:1831:G:C4	31:BA:1832:C:C5	3.05	0.45
31:BA:1832:C:N4	31:BA:1833:U:C4	2.85	0.45
31:BA:1878:G:C2'	31:BA:1879:C:H5'	2.46	0.45
31:BA:2392:A:H8	41:BP:60:MET:HG2	1.80	0.45
31:BA:2788:C:O2'	31:BA:2809:A:N3	2.44	0.45
32:BB:13:A:O2'	32:BB:14:U:H3'	2.16	0.45
33:BD:118:VAL:CG2	33:BD:119:ALA:H	2.26	0.45
35:BF:9:ILE:HG12	35:BF:14:PRO:CA	2.46	0.45
36:BG:60:LEU:O	36:BG:63:ILE:HG13	2.17	0.45
36:BG:76:SER:CB	36:BG:84:LYS:H	2.28	0.45
37:BH:158:HIS:NE2	37:BH:169:VAL:C	2.73	0.45
39:BN:41:ASP:O	39:BN:42:TRP:O	2.34	0.45
42:BQ:81:VAL:HG12	42:BQ:82:ARG:HG2	1.95	0.45
44:BS:16:ASN:ND2	44:BS:92:TYR:CZ	2.84	0.45
46:BU:110:VAL:O	46:BU:111:GLU:C	2.60	0.45
50:BY:65:ALA:HA	50:BY:66:PRO:HD2	1.55	0.45
51:BZ:151:HIS:HA	51:BZ:171:ILE:HG23	1.98	0.45
1:CA:451:A:C5	1:CA:481:G:C6	3.04	0.45
1:CA:457:C:O2'	1:CA:458:C:H5'	2.17	0.45
1:CA:625:G:N3	1:CA:626:U:C6	2.84	0.45
1:CA:694:A:C2'	1:CA:695:A:O5'	2.64	0.45
1:CA:808:C:OP1	15:CO:48:LYS:HE3	2.16	0.45
1:CA:982:U:C2	1:CA:983:A:N6	2.85	0.45
1:CA:1030(A):G:O2'	1:CA:1030(C):G:N7	2.47	0.45
1:CA:1158:C:H42	1:CA:1181:G:H1	1.65	0.45
1:CA:1205:U:H5"	3:CC:190:ARG:HH21	1.81	0.45
1:CA:1250:A:H61	1:CA:1354:C:H1'	1.80	0.45
1:CA:1287:A:C6	1:CA:1288:A:C6	3.04	0.45
1:CA:1316:G:H1	19:CS:5:LEU:CD2	2.30	0.45
1:CA:1350:A:H8	1:CA:1350:A:O5'	1.99	0.45
1:CA:1503:A:O2'	1:CA:1504:G:C5'	2.63	0.45
2:CB:233:SER:HB2	2:CB:234:PRO:HD2	1.98	0.45
3:CC:58:GLU:H	3:CC:65:ALA:CB	2.27	0.45
5:CE:131:ILE:O	5:CE:134:ALA:HB3	2.17	0.45
9:CI:42:ARG:HH22	9:CI:75:ASP:CG	2.25	0.45
12:CL:42:THR:HA	12:CL:53:ARG:O	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:25:THR:O	15:CO:26:GLU:C	2.59	0.45
23:D1:73:LEU:HB3	23:D1:90:ILE:HG23	1.97	0.45
25:D3:22:ALA:O	25:D3:26:LEU:HG	2.16	0.45
27:D5:7:PRO:HA	31:DA:2615:U:N1	2.32	0.45
27:D5:8:LYS:HD2	31:DA:2056:G:O2'	2.16	0.45
27:D5:51:TYR:HB2	27:D5:54:GLY:CA	2.46	0.45
29:D7:8:ASN:HD21	29:D7:11:LYS:N	2.09	0.45
29:D7:47:ARG:HA	29:D7:48:LYS:HD3	1.97	0.45
31:DA:18:C:H2'	31:DA:19:C:H6	1.80	0.45
31:DA:142:A:N6	31:DA:1596:A:H5'	2.32	0.45
31:DA:477:A:O2'	31:DA:478:A:H5'	2.17	0.45
31:DA:688:U:H5'	31:DA:1780:A:C2	2.52	0.45
31:DA:736:C:H42	31:DA:760:G:H1	1.65	0.45
31:DA:948:G:O2'	31:DA:949:C:H5'	2.16	0.45
31:DA:1356:G:C6	31:DA:1357:U:C4	3.04	0.45
31:DA:1392:A:N6	31:DA:1393:A:N6	2.64	0.45
31:DA:2323:G:H2'	31:DA:2324:C:O4'	2.17	0.45
31:DA:2391:G:O6	31:DA:2425:A:H8	1.99	0.45
31:DA:2670:A:C2	31:DA:2671:A:C4	3.04	0.45
31:DA:2863:C:H6	31:DA:2863:C:H5"	1.80	0.45
32:DB:38:C:H2'	32:DB:39:A:H8	1.82	0.45
33:DD:158:ALA:N	33:DD:161:THR:CG2	2.73	0.45
34:DE:152:LYS:HG2	39:DN:78:TYR:CD2	2.51	0.45
36:DG:153:ARG:NH1	36:DG:153:ARG:HB3	2.31	0.45
37:DH:43:VAL:HG12	37:DH:53:GLU:H	1.81	0.45
38:DI:117:GLU:HG3	38:DI:118:LYS:N	2.31	0.45
41:DP:17:LYS:C	41:DP:19:VAL:N	2.67	0.45
41:DP:81:GLN:OE1	41:DP:105:LEU:HB3	2.17	0.45
44:DS:26:LEU:O	44:DS:88:ASP:HB3	2.16	0.45
44:DS:86:ALA:O	44:DS:87:PHE:O	2.35	0.45
46:DU:88:ILE:O	46:DU:89:GLU:C	2.59	0.45
48:DW:40:ASN:C	48:DW:41:LYS:HG2	2.41	0.45
48:DW:83:LYS:C	48:DW:84:ARG:HD3	2.41	0.45
49:DX:80:ILE:HG23	49:DX:81:VAL:N	2.30	0.45
1:AA:106:C:O2'	1:AA:107:G:H5'	2.15	0.45
1:AA:155:C:H2'	1:AA:156:G:C8	2.51	0.45
1:AA:156:G:C6	1:AA:166:G:N1	2.85	0.45
1:AA:386:C:H2'	1:AA:387:U:C5'	2.46	0.45
1:AA:1160:G:N3	1:AA:1160:G:H2'	2.30	0.45
3:AC:111:LEU:HD21	3:AC:145:GLY:O	2.16	0.45
4:AD:49:ARG:HA	4:AD:49:ARG:NE	2.28	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:108:LEU:HB3	4:AD:110:PHE:HE1	1.81	0.45
6:AF:10:LEU:HD12	6:AF:10:LEU:N	2.32	0.45
6:AF:69:GLU:CD	6:AF:69:GLU:H	2.24	0.45
7:AG:153:HIS:CE1	11:AK:57:THR:HG23	2.51	0.45
10:AJ:33:GLN:HB2	10:AJ:75:ILE:CD1	2.46	0.45
11:AK:57:THR:HG22	11:AK:59:TYR:H	1.81	0.45
18:AR:62:GLU:O	18:AR:65:ILE:HD12	2.16	0.45
19:AS:49:ILE:H	19:AS:49:ILE:HD12	1.82	0.45
20:AT:13:LEU:HD12	20:AT:13:LEU:N	2.18	0.45
22:B0:42:GLY:HA3	31:BA:2331:G:O4'	2.16	0.45
23:B1:48:LYS:HD3	23:B1:48:LYS:HA	1.45	0.45
27:B5:40:LYS:NZ	27:B5:46:CYS:HB3	2.30	0.45
28:B6:37:ARG:HB3	31:BA:2344:U:O2'	2.17	0.45
30:B8:29:LYS:O	30:B8:30:ARG:C	2.59	0.45
31:BA:231:C:C2'	31:BA:232:G:H5'	2.46	0.45
31:BA:271(D):G:C5	31:BA:271(E):U:C5	3.04	0.45
31:BA:271(M):G:H4'	38:BI:53:ALA:HB1	1.98	0.45
31:BA:626:U:H5"	31:BA:627:A:H5'	1.98	0.45
31:BA:693:C:H2'	31:BA:694:U:H6	1.81	0.45
31:BA:833:U:H5"	41:BP:48:PRO:HB3	1.97	0.45
31:BA:1011:G:C4	31:BA:1013:C:C6	3.04	0.45
31:BA:1016:G:C2'	31:BA:1017:G:O5'	2.65	0.45
31:BA:1446:C:H2'	31:BA:1447:G:H8	1.82	0.45
31:BA:1511:C:H2'	31:BA:1512:U:O5'	2.17	0.45
31:BA:1531:C:H3'	31:BA:1532:C:H5'	1.96	0.45
31:BA:1812:A:O2'	33:BD:45:ASN:HB2	2.16	0.45
31:BA:2056:G:N2	31:BA:2057:A:N9	2.65	0.45
31:BA:2298:A:N6	31:BA:2318:G:C8	2.84	0.45
32:BB:40:U:N3	32:BB:43:C:H5"	2.31	0.45
34:BE:130:GLY:O	34:BE:131:ALA:O	2.33	0.45
35:BF:153:SER:OG	35:BF:190:GLU:HG3	2.16	0.45
36:BG:123:ASN:ND2	36:BG:126:ASP:OD1	2.49	0.45
38:BI:1:MET:O	38:BI:20:ASP:HA	2.17	0.45
38:BI:66:GLU:OE1	38:BI:134:PRO:HB3	2.17	0.45
38:BI:114:LEU:HD23	38:BI:114:LEU:HA	1.68	0.45
39:BN:5:VAL:HA	39:BN:6:PRO:HD3	1.51	0.45
39:BN:17:ASP:C	39:BN:19:GLU:N	2.73	0.45
39:BN:119:ARG:HH11	39:BN:119:ARG:CG	2.28	0.45
41:BP:77:ARG:HE	41:BP:77:ARG:HB3	1.64	0.45
41:BP:131:SER:O	41:BP:132:LYS:C	2.59	0.45
43:BR:21:TYR:CE2	43:BR:43:GLU:HG2	2.51	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BT:100:TYR:HD2	45:BT:103:ARG:NH2	2.11	0.45
47:BV:39:LEU:O	47:BV:39:LEU:HD12	2.15	0.45
50:BY:28:LYS:HB2	50:BY:37:VAL:CB	2.44	0.45
50:BY:45:VAL:HG13	50:BY:62:GLU:OE2	2.16	0.45
51:BZ:77:ASP:HB2	51:BZ:84:GLU:HG2	1.97	0.45
1:CA:55:A:C8	1:CA:56:U:H5	2.33	0.45
1:CA:106:C:C2	1:CA:107:G:C8	3.05	0.45
1:CA:255:G:O6	1:CA:266:G:O6	2.34	0.45
1:CA:370:C:C2	1:CA:371:G:C8	3.05	0.45
1:CA:1072:G:C6	1:CA:1073:U:C4	3.04	0.45
1:CA:1343:G:H2'	1:CA:1344:C:C6	2.52	0.45
1:CA:1344:C:O2'	1:CA:1345:U:H5'	2.17	0.45
1:CA:1392:G:C2'	1:CA:1393:U:H5'	2.46	0.45
2:CB:59:GLU:O	2:CB:63:MET:HG2	2.17	0.45
3:CC:159:GLY:HA2	3:CC:193:TYR:CD1	2.52	0.45
4:CD:94:LEU:O	4:CD:98:GLU:N	2.48	0.45
4:CD:117:ALA:O	4:CD:121:VAL:HG23	2.17	0.45
8:CH:90:GLY:O	8:CH:91:ARG:HB2	2.14	0.45
8:CH:94:TYR:HD1	8:CH:132:GLU:HA	1.81	0.45
9:CI:18:PHE:HB3	9:CI:20:ARG:HH11	1.81	0.45
10:CJ:63:PHE:CZ	14:CN:45:ARG:HG3	2.45	0.45
22:D0:68:GLU:HG3	22:D0:80:HIS:HB2	1.97	0.45
24:D2:40:SER:O	24:D2:41:ILE:C	2.60	0.45
30:D8:23:VAL:HG13	30:D8:46:ARG:HB3	1.97	0.45
30:D8:26:LYS:HB2	30:D8:44:LYS:HG3	1.97	0.45
31:DA:271(N):U:C6	31:DA:271(N):U:OP1	2.69	0.45
31:DA:281:G:N2	31:DA:358:U:H5	2.14	0.45
31:DA:510:C:H2'	31:DA:511:U:O4'	2.17	0.45
31:DA:733:G:H8	31:DA:733:G:O5'	1.98	0.45
31:DA:1047:G:N2	31:DA:1111:A:N6	2.64	0.45
31:DA:1475:G:H5"	31:DA:1475:G:C8	2.52	0.45
31:DA:1529:G:C2	31:DA:1530:C:H5"	2.51	0.45
31:DA:1588:C:H2'	31:DA:1588:C:O2	2.16	0.45
31:DA:1894:C:H2'	31:DA:1895:C:H6	1.81	0.45
31:DA:2606:C:H2'	31:DA:2607:G:H5'	1.98	0.45
31:DA:2699:C:H2'	31:DA:2700:C:O4'	2.15	0.45
31:DA:2870:C:H2'	31:DA:2871:C:O4'	2.17	0.45
33:DD:33:LEU:C	33:DD:35:LYS:O	2.60	0.45
36:DG:11:TYR:HD2	36:DG:12:TYR:CD1	2.33	0.45
39:DN:3:THR:HA	39:DN:4:TYR:CD1	2.51	0.45
39:DN:129:PRO:O	39:DN:130:HIS:HB2	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DP:16:ARG:CZ	41:DP:16:ARG:HB2	2.46	0.45
43:DR:55:ALA:CB	43:DR:79:LEU:HD13	2.44	0.45
44:DS:51:ALA:HB3	44:DS:73:LEU:HG	1.98	0.45
46:DU:21:ALA:HA	46:DU:24:TYR:CE1	2.52	0.45
47:DV:4:ILE:HD12	47:DV:40:LEU:HG	1.98	0.45
47:DV:40:LEU:C	47:DV:40:LEU:HD12	2.41	0.45
50:DY:28:LYS:HB2	50:DY:37:VAL:CB	2.44	0.45
1:AA:13:U:C5	1:AA:916:G:O6	2.69	0.45
1:AA:92:C:H2'	1:AA:93:G:C8	2.52	0.45
1:AA:117:G:H8	1:AA:117:G:O5'	1.99	0.45
1:AA:189:G:O6	1:AA:189(L):G:C6	2.69	0.45
1:AA:473:G:C2	1:AA:474:G:C8	3.04	0.45
1:AA:495:A:H4'	1:AA:496:A:OP1	2.17	0.45
1:AA:582:U:C2	1:AA:760:G:C6	3.04	0.45
1:AA:1030(A):G:O2'	1:AA:1030(C):G:N7	2.47	0.45
1:AA:1306:A:H1'	1:AA:1332:A:C2	2.52	0.45
1:AA:1320:C:H2'	1:AA:1321:C:O4'	2.17	0.45
1:AA:1404:C:H2'	1:AA:1405:G:C8	2.51	0.45
1:AA:1413:A:C2	1:AA:1414:U:C2	3.04	0.45
2:AB:15:VAL:HG23	2:AB:16:HIS:CE1	2.52	0.45
3:AC:106:VAL:C	3:AC:108:ASN:H	2.25	0.45
4:AD:135:LEU:O	4:AD:136:PRO:C	2.59	0.45
5:AE:7:GLU:HB2	5:AE:35:GLY:O	2.16	0.45
5:AE:31:LEU:HD22	5:AE:43:LEU:HD11	1.98	0.45
8:AH:87:SER:CB	8:AH:93:VAL:H	2.30	0.45
9:AI:48:GLU:N	9:AI:49:PRO:CD	2.79	0.45
14:AN:44:LEU:HD12	14:AN:44:LEU:O	2.16	0.45
15:AO:67:LEU:CD2	15:AO:78:TYR:HE1	2.26	0.45
16:AP:45:THR:C	16:AP:47:ASP:N	2.74	0.45
22:B0:74:ARG:NH2	32:BB:13:A:OP2	2.50	0.45
22:B0:84:LEU:HD12	22:B0:84:LEU:N	2.30	0.45
24:B2:46:GLN:NE2	24:B2:47:ASN:N	2.65	0.45
30:B8:32:LEU:HD23	30:B8:35:GLN:CA	2.46	0.45
31:BA:21:A:O2'	31:BA:22:C:H5'	2.17	0.45
31:BA:86:C:O2'	31:BA:87:C:H5'	2.16	0.45
31:BA:94:C:C5'	31:BA:94(A):G:OP2	2.62	0.45
31:BA:286:C:H42	31:BA:355:G:H1	1.64	0.45
31:BA:827:U:O2	31:BA:2246:G:H4'	2.16	0.45
31:BA:1529:G:N3	31:BA:1530:C:H5"	2.32	0.45
31:BA:2314:C:O2	31:BA:2315:G:C8	2.70	0.45
31:BA:2648:C:H2'	31:BA:2649:U:C6	2.51	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2670:A:C2	31:BA:2671:A:C4	3.04	0.45
31:BA:2863:C:H5"	31:BA:2863:C:H6	1.82	0.45
33:BD:35:LYS:HG2	33:BD:64:ILE:HG23	1.98	0.45
34:BE:57:LYS:C	34:BE:59:VAL:H	2.25	0.45
34:BE:181:LEU:HD11	45:BT:7:ILE:CG2	2.46	0.45
35:BF:83:PHE:O	35:BF:84:VAL:CG2	2.65	0.45
40:BO:7:TYR:CZ	40:BO:44:LYS:HG3	2.52	0.45
42:BQ:52:VAL:O	42:BQ:53:ALA:C	2.59	0.45
47:BV:90:PRO:CG	47:BV:91:TYR:N	2.66	0.45
50:BY:7:VAL:HB	50:BY:8:LYS:CE	2.47	0.45
1:CA:316:G:OP2	1:CA:351:G:O2'	2.34	0.45
1:CA:408:A:C2	1:CA:409:G:N9	2.85	0.45
1:CA:411:A:OP1	4:CD:30:LYS:NZ	2.44	0.45
1:CA:640:A:C2'	1:CA:641:U:H5'	2.47	0.45
1:CA:938:A:C6	1:CA:939:G:C5	3.05	0.45
1:CA:1293:G:O2'	1:CA:1294:G:P	2.74	0.45
2:CB:19:HIS:O	2:CB:20:GLU:C	2.59	0.45
2:CB:24:TRP:CG	2:CB:25:ASN:H	2.33	0.45
2:CB:79:ASP:C	2:CB:81:VAL:N	2.74	0.45
2:CB:219:VAL:O	2:CB:222:ILE:HB	2.17	0.45
3:CC:59:ARG:HE	3:CC:64:VAL:HG13	1.82	0.45
4:CD:92:VAL:HG12	4:CD:96:LEU:CD2	2.46	0.45
4:CD:173:TRP:CD1	4:CD:174:LEU:HG	2.51	0.45
7:CG:13:GLN:O	7:CG:24:THR:HG21	2.16	0.45
9:CI:45:ALA:O	9:CI:78:LYS:HE3	2.17	0.45
12:CL:25:PRO:O	12:CL:27:LEU:HD22	2.16	0.45
12:CL:47:LYS:CB	12:CL:48:PRO:CD	2.92	0.45
13:CM:56:LEU:O	13:CM:60:VAL:HG23	2.16	0.45
27:D5:57:VAL:C	27:D5:58:LEU:CG	2.89	0.45
31:DA:142:A:H8	31:DA:1595:G:N2	2.12	0.45
31:DA:671:C:H2'	31:DA:672:C:H6	1.80	0.45
31:DA:952:G:C6	31:DA:966:G:C6	3.05	0.45
31:DA:1037:G:H1	31:DA:1118:C:N4	2.11	0.45
31:DA:1157:G:C4	31:DA:1158:C:C5	3.05	0.45
31:DA:1805:U:H2'	31:DA:1806:C:H6	1.81	0.45
31:DA:1809:A:C6	31:DA:1810:A:C6	3.05	0.45
31:DA:1826:G:C5	31:DA:1827:C:C5	3.05	0.45
31:DA:2287:A:C4	31:DA:2289:G:C8	3.04	0.45
31:DA:2410:G:H2'	31:DA:2411:A:O4'	2.17	0.45
31:DA:2415:G:C4'	41:DP:67:MET:H	2.11	0.45
31:DA:2740:A:C6	31:DA:2764:A:C8	3.04	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DD:46:GLN:H	33:DD:46:GLN:HG3	1.35	0.45
33:DD:109:ASP:N	33:DD:196:VAL:O	2.50	0.45
33:DD:253:GLN:CB	33:DD:255:LYS:NZ	2.73	0.45
36:DG:45:GLU:HB2	36:DG:47:LYS:CG	2.46	0.45
36:DG:57:ALA:CB	36:DG:90:LEU:HD21	2.46	0.45
36:DG:101:ILE:HG12	36:DG:105:LYS:HE3	1.97	0.45
37:DH:158:HIS:NE2	37:DH:169:VAL:C	2.74	0.45
38:DI:81:VAL:HG11	38:DI:88:ILE:CG2	2.46	0.45
39:DN:43:THR:OG1	39:DN:48:MET:HE3	2.16	0.45
40:DO:104:ARG:O	40:DO:107:ARG:HB3	2.16	0.45
41:DP:23:PRO:C	41:DP:33:ARG:HE	2.18	0.45
46:DU:61:TRP:O	46:DU:62:ILE:C	2.56	0.45
46:DU:69:CYS:HG	46:DU:79:PHE:HD1	1.61	0.45
47:DV:63:GLY:O	47:DV:64:HIS:HB3	2.16	0.45
49:DX:23:GLU:CG	49:DX:24:GLY:N	2.77	0.45
50:DY:28:LYS:HD2	50:DY:37:VAL:CG1	2.47	0.45
50:DY:87:LYS:HG3	50:DY:88:LYS:N	2.32	0.45
51:DZ:27:VAL:CG2	51:DZ:36:LYS:HA	2.42	0.45
1:AA:9:G:OP1	5:AE:122:GLU:HG3	2.17	0.45
1:AA:411:A:C4	1:AA:413:G:O4’	2.69	0.45
1:AA:734:G:C6	1:AA:735:C:C4	3.04	0.45
1:AA:744:C:O2’	1:AA:745:C:H5’	2.16	0.45
1:AA:831:U:O2’	1:AA:832:C:H5’	2.17	0.45
1:AA:1072:G:C6	1:AA:1073:U:O4	2.70	0.45
1:AA:1286:A:H2	21:AU:22:ARG:HH22	1.64	0.45
1:AA:1366:C:OP1	9:AI:117:HIS:CE1	2.70	0.45
1:AA:1434:A:H2’	1:AA:1435:G:O4’	2.16	0.45
2:AB:87:ARG:NH2	2:AB:233:SER:HB3	2.32	0.45
2:AB:178:ARG:NH2	8:AH:68:ARG:HH22	2.14	0.45
2:AB:203:GLY:O	2:AB:204:ASN:C	2.60	0.45
4:AD:92:VAL:HG12	4:AD:96:LEU:HD21	1.99	0.45
4:AD:203:VAL:O	4:AD:204:ILE:C	2.60	0.45
5:AE:7:GLU:HB3	5:AE:112:LEU:HD13	1.98	0.45
6:AF:10:LEU:HD21	6:AF:26:ILE:HD11	1.98	0.45
8:AH:93:VAL:O	8:AH:93:VAL:HG12	2.14	0.45
12:AL:27:LEU:C	12:AL:29:GLY:N	2.75	0.45
18:AR:44:LEU:O	18:AR:45:SER:C	2.59	0.45
20:AT:53:LEU:HA	20:AT:56:MET:HB2	1.99	0.45
24:B2:29:LYS:HZ2	49:BX:9:LEU:HA	1.81	0.45
30:B8:61:LEU:HD23	30:B8:61:LEU:HA	1.82	0.45
30:B8:61:LEU:HB3	31:BA:593:G:H4’	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:271(D):G:H2'	31:BA:271(E):U:O4'	2.17	0.45
31:BA:280:C:C2'	31:BA:281:G:O5'	2.62	0.45
31:BA:460:A:C2	31:BA:470:A:C5	3.05	0.45
31:BA:485:C:H2'	31:BA:486:C:C6	2.52	0.45
31:BA:643:A:O2'	31:BA:644:A:H5'	2.16	0.45
31:BA:836:G:C5	31:BA:837:C:C5	3.05	0.45
31:BA:1049:C:O2	31:BA:1050:A:C8	2.69	0.45
31:BA:1359:A:N7	31:BA:1372:U:C4	2.83	0.45
31:BA:1386:C:OP2	31:BA:1396:U:H5	2.00	0.45
31:BA:1497:U:H5"	31:BA:1498:C:C5	2.51	0.45
31:BA:1833:U:C2	31:BA:1834:U:C6	3.04	0.45
31:BA:2270:G:C2'	31:BA:2271:G:H5'	2.46	0.45
31:BA:2308:G:C2	31:BA:2309:A:C6	3.04	0.45
31:BA:2504:U:O2	31:BA:2504:U:C2'	2.63	0.45
31:BA:2605:U:H2'	31:BA:2606:C:C6	2.52	0.45
31:BA:2850:A:OP2	31:BA:2866:U:C5	2.70	0.45
31:BA:2865:U:C4	31:BA:2866:U:C4	3.04	0.45
32:BB:87:G:O5'	32:BB:88:C:OP2	2.35	0.45
35:BF:33:LEU:HD12	35:BF:33:LEU:HA	1.78	0.45
36:BG:115:ARG:HH12	36:BG:136:ARG:HG3	1.78	0.45
36:BG:128:ARG:O	36:BG:129:GLY:O	2.34	0.45
37:BH:138:LYS:O	37:BH:140:LYS:N	2.50	0.45
38:BI:9:LEU:HB2	38:BI:12:LEU:O	2.16	0.45
38:BI:96:ASP:O	38:BI:99:GLU:HB3	2.16	0.45
45:BT:16:ARG:H	45:BT:79:HIS:HD2	1.65	0.45
47:BV:50:PRO:C	47:BV:51:VAL:HG23	2.41	0.45
47:BV:69:LYS:CB	47:BV:93:GLU:CD	2.89	0.45
50:BY:96:ILE:HG22	50:BY:97:ARG:O	2.17	0.45
1:CA:37:U:H2'	1:CA:38:G:O4'	2.17	0.45
1:CA:241:C:H2'	1:CA:241:C:O2	2.17	0.45
1:CA:482:A:H2'	1:CA:482:A:N3	2.32	0.45
1:CA:491:G:H2'	1:CA:492:G:H8	1.81	0.45
1:CA:522:C:H41	12:CL:53:ARG:NH2	2.13	0.45
1:CA:585:G:C4'	12:CL:8:ASN:ND2	2.70	0.45
1:CA:805:C:H2'	1:CA:806:C:H6	1.81	0.45
1:CA:828:A:N6	1:CA:858:G:O2'	2.39	0.45
1:CA:994:A:N6	1:CA:1046:A:H2	2.15	0.45
3:CC:6:HIS:NE2	3:CC:184:TYR:HE2	2.14	0.45
4:CD:78:LEU:O	4:CD:81:GLU:HB3	2.15	0.45
6:CF:69:GLU:CD	6:CF:69:GLU:H	2.24	0.45
16:CP:45:THR:C	16:CP:47:ASP:N	2.74	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:56:THR:OG1	18:CR:58:LEU:HD13	2.16	0.45
20:CT:56:MET:HG3	20:CT:88:VAL:HG21	1.98	0.45
22:D0:1:MET:CB	31:DA:2602:A:H62	2.29	0.45
23:D1:37:ILE:HD13	23:D1:37:ILE:HA	1.73	0.45
24:D2:14:ARG:NE	24:D2:57:ILE:HB	2.31	0.45
25:D3:17:LYS:O	25:D3:20:LYS:N	2.49	0.45
30:D8:13:ARG:HB3	41:DP:63:PRO:HB3	1.98	0.45
31:DA:236:C:H2'	31:DA:237:C:C6	2.51	0.45
31:DA:286:C:N4	31:DA:355:G:H1	2.15	0.45
31:DA:884:C:O2'	31:DA:892:G:C8	2.50	0.45
31:DA:1437:C:H6	31:DA:1437:C:C5'	2.30	0.45
31:DA:1545:A:H2'	31:DA:1546:C:O4'	2.16	0.45
31:DA:1602:U:H3'	31:DA:1603:A:H5'	1.99	0.45
31:DA:1709:U:H2'	31:DA:1710:C:C6	2.51	0.45
31:DA:1769:G:C5	31:DA:1984:G:C6	3.05	0.45
31:DA:1885:A:H5'	31:DA:1885:A:C8	2.41	0.45
35:DF:108:LYS:HD3	35:DF:108:LYS:HA	1.78	0.45
36:DG:101:ILE:HG23	36:DG:102:PHE:N	2.32	0.45
37:DH:16:SER:O	37:DH:26:VAL:HA	2.17	0.45
38:DI:13:GLY:O	38:DI:14:ASP:C	2.59	0.45
38:DI:73:GLU:O	38:DI:73:GLU:HG3	2.16	0.45
38:DI:81:VAL:HG11	38:DI:88:ILE:HD12	1.98	0.45
39:DN:40:PRO:HB3	46:DU:68:ALA:HB2	1.99	0.45
42:DQ:43:THR:HB	42:DQ:45:GLN:HG2	1.99	0.45
43:DR:13:HIS:O	43:DR:14:SER:C	2.60	0.45
43:DR:56:LYS:HD2	43:DR:88:ARG:N	2.29	0.45
45:DT:28:VAL:HG13	45:DT:46:GLU:HB2	1.97	0.45
45:DT:50:ILE:HA	45:DT:99:LEU:CD1	2.47	0.45
46:DU:91:ASP:OD2	46:DU:96:ALA:N	2.50	0.45
46:DU:109:LEU:HD23	46:DU:109:LEU:HA	1.71	0.45
51:DZ:53:ILE:HG22	51:DZ:71:VAL:CB	2.43	0.45
51:DZ:145:GLU:C	51:DZ:147:GLY:H	2.24	0.45
1:AA:117:G:C2'	1:AA:118:U:H5'	2.47	0.45
1:AA:227:G:O2'	1:AA:228:A:H5'	2.16	0.45
1:AA:502:G:C2	1:AA:503:C:O2	2.70	0.45
1:AA:541:G:H2'	1:AA:542:G:C8	2.50	0.45
1:AA:625:G:N3	1:AA:626:U:C6	2.85	0.45
1:AA:727:G:C6	1:AA:731:G:C6	3.04	0.45
1:AA:834:C:H2'	1:AA:835:U:C6	2.52	0.45
1:AA:979:C:OP1	1:AA:1222:G:O6	2.34	0.45
1:AA:1254:C:H2'	1:AA:1255:G:C8	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1493:A:H2'	31:BA:1913:A:C2	2.48	0.45
2:AB:142:LEU:HD23	2:AB:142:LEU:C	2.42	0.45
6:AF:72:VAL:HG13	6:AF:73:ASN:N	2.31	0.45
8:AH:23:SER:HA	8:AH:63:LEU:CD2	2.47	0.45
8:AH:29:SER:HB3	8:AH:32:LYS:HD2	1.99	0.45
8:AH:36:LEU:C	8:AH:38:ILE:N	2.75	0.45
13:AM:17:VAL:O	13:AM:20:THR:HB	2.17	0.45
15:AO:8:LYS:HG2	15:AO:12:ILE:HD11	1.99	0.45
16:AP:27:LYS:H	16:AP:27:LYS:HG2	1.60	0.45
16:AP:45:THR:O	16:AP:47:ASP:N	2.50	0.45
17:AQ:90:ILE:O	17:AQ:91:ARG:C	2.60	0.45
23:B1:16:ASN:CB	23:B1:46:LEU:HG	2.46	0.45
23:B1:37:ILE:HD13	23:B1:37:ILE:HA	1.69	0.45
24:B2:14:ARG:NE	24:B2:57:ILE:HB	2.31	0.45
30:B8:8:LYS:HB3	30:B8:12:LYS:HE3	1.99	0.45
30:B8:29:LYS:O	30:B8:31:HIS:N	2.49	0.45
31:BA:1006:C:C2	31:BA:1138:G:N2	2.85	0.45
31:BA:1178:C:H2'	31:BA:1179:C:C6	2.50	0.45
31:BA:1257:C:H4'	35:BF:83:PHE:CD2	2.51	0.45
31:BA:1294:U:O2'	43:BR:23:ASN:ND2	2.46	0.45
31:BA:2410:G:C2	31:BA:2411:A:H1'	2.52	0.45
31:BA:2752:C:O2	31:BA:2752:C:C2'	2.60	0.45
33:BD:96:HIS:CE1	33:BD:102:LYS:HE2	2.52	0.45
33:BD:175:LEU:O	33:BD:182:LEU:HD22	2.17	0.45
34:BE:47:VAL:CG2	34:BE:84:PHE:O	2.57	0.45
37:BH:30:LYS:HB2	37:BH:79:VAL:HA	1.98	0.45
37:BH:137:ASP:HB3	37:BH:140:LYS:HB3	1.97	0.45
38:BI:79:ILE:HA	38:BI:80:PRO:HD3	1.66	0.45
39:BN:42:TRP:HA	39:BN:48:MET:CE	2.40	0.45
40:BO:14:THR:CG2	40:BO:52:VAL:HG21	2.47	0.45
44:BS:90:GLY:C	44:BS:92:TYR:N	2.73	0.45
45:BT:47:GLY:HA3	45:BT:63:VAL:HG23	1.98	0.45
49:BX:31:HIS:O	49:BX:32:PRO:C	2.60	0.45
51:BZ:76:LEU:HA	51:BZ:76:LEU:HD23	1.63	0.45
51:BZ:106:GLY:HA3	51:BZ:141:VAL:O	2.16	0.45
1:CA:17:U:O2'	1:CA:1079:G:H1'	2.17	0.45
1:CA:135:C:H2'	1:CA:136:C:H5'	1.98	0.45
1:CA:270:A:C6	1:CA:271:C:N3	2.84	0.45
1:CA:357:G:O2'	1:CA:358:U:H5'	2.16	0.45
1:CA:358:U:H2'	1:CA:359:U:C6	2.51	0.45
1:CA:624:C:H4'	16:CP:11:SER:H	1.81	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:676:A:H2'	1:CA:677:U:C6	2.52	0.45
1:CA:727:G:C6	1:CA:731:G:C6	3.05	0.45
1:CA:740:U:H4'	15:CO:42:HIS:CD2	2.51	0.45
1:CA:1047:G:C2'	1:CA:1048:G:H5'	2.47	0.45
1:CA:1254:C:H2'	1:CA:1255:G:C8	2.51	0.45
1:CA:1361:G:H2'	1:CA:1362:C:O4'	2.16	0.45
3:CC:11:ARG:O	3:CC:12:LEU:C	2.59	0.45
3:CC:188:LEU:O	3:CC:189:ALA:CB	2.64	0.45
5:CE:139:LEU:CA	5:CE:142:LEU:HD12	2.41	0.45
7:CG:79:ARG:HE	7:CG:84:ASN:HD21	1.56	0.45
9:CI:112:LYS:C	9:CI:112:LYS:HD3	2.41	0.45
12:CL:102:ARG:HH11	12:CL:102:ARG:HG2	1.77	0.45
14:CN:3:ARG:CZ	14:CN:3:ARG:HB3	2.46	0.45
14:CN:44:LEU:HD12	14:CN:44:LEU:O	2.17	0.45
15:CO:36:ILE:CD1	15:CO:63:ARG:HE	2.29	0.45
17:CQ:66:SER:O	17:CQ:67:LYS:C	2.59	0.45
22:D0:26:TYR:O	22:D0:29:GLN:HB2	2.17	0.45
22:D0:27:GLU:HG3	22:D0:68:GLU:HA	1.99	0.45
28:D6:15:GLU:HB3	28:D6:18:ARG:CG	2.43	0.45
31:DA:9:U:C4	31:DA:2629:A:C6	3.04	0.45
31:DA:34:C:C3'	31:DA:34:C:C6	2.99	0.45
31:DA:52:A:O2'	31:DA:53:A:H5'	2.16	0.45
31:DA:296:C:H2'	31:DA:297:C:H6	1.81	0.45
31:DA:706:A:C2	31:DA:707:G:H1'	2.52	0.45
31:DA:1131:G:H21	39:DN:73:THR:HG21	1.82	0.45
31:DA:1543:C:OP2	31:DA:1543:C:C6	2.70	0.45
31:DA:1889:A:H2'	31:DA:1890:A:O4'	2.17	0.45
31:DA:2024:G:H2'	31:DA:2025:C:H6	1.81	0.45
31:DA:2792:G:H2'	31:DA:2792:G:N3	2.31	0.45
33:DD:25:THR:HB	33:DD:82:ILE:H	1.81	0.45
34:DE:8:LYS:HG2	34:DE:192:ASN:HD22	1.81	0.45
34:DE:24:THR:OG1	34:DE:188:VAL:HG11	2.17	0.45
34:DE:87:GLU:O	34:DE:87:GLU:HG3	2.17	0.45
35:DF:51:THR:CG2	35:DF:92:PRO:HD2	2.46	0.45
37:DH:158:HIS:CD2	37:DH:170:ARG:O	2.70	0.45
38:DI:79:ILE:HA	38:DI:80:PRO:HD3	1.70	0.45
39:DN:56:ASN:CA	39:DN:125:GLY:H	2.29	0.45
43:DR:104:ARG:HD2	43:DR:111:LEU:HD11	1.97	0.45
44:DS:19:LYS:O	44:DS:19:LYS:CG	2.63	0.45
45:DT:45:PHE:CE2	45:DT:63:VAL:HG22	2.50	0.45
45:DT:65:LYS:HG3	45:DT:66:VAL:H	1.81	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DV:40:LEU:HD12	47:DV:40:LEU:O	2.17	0.45
47:DV:69:LYS:CB	47:DV:93:GLU:CD	2.90	0.45
50:DY:77:PRO:O	50:DY:78:ALA:CB	2.63	0.45
51:DZ:42:VAL:HG13	51:DZ:43:GLU:H	1.81	0.45
1:AA:37:U:H2'	1:AA:38:G:O4'	2.17	0.45
1:AA:57:G:H2'	1:AA:58:C:O4'	2.16	0.45
1:AA:66:G:C2	1:AA:67:C:C6	3.05	0.45
1:AA:114:U:H2'	1:AA:115:G:H8	1.82	0.45
1:AA:276:G:O3'	17:AQ:68:ARG:NH1	2.41	0.45
1:AA:457:C:C2	1:AA:458:C:C5	3.05	0.45
1:AA:763:G:N3	1:AA:764:C:C6	2.85	0.45
1:AA:779:C:H2'	1:AA:780:A:O4'	2.16	0.45
1:AA:997:U:H2'	1:AA:998:G:C8	2.52	0.45
2:AB:67:THR:C	2:AB:68:ILE:HD12	2.42	0.45
2:AB:87:ARG:HE	2:AB:233:SER:CB	2.26	0.45
6:AF:89:MET:HG2	6:AF:89:MET:O	2.16	0.45
7:AG:16:LEU:CD1	9:AI:42:ARG:HA	2.47	0.45
8:AH:64:LYS:CG	8:AH:79:VAL:HG21	2.47	0.45
8:AH:94:TYR:HD1	8:AH:132:GLU:HA	1.82	0.45
15:AO:67:LEU:HD22	15:AO:78:TYR:CE1	2.44	0.45
16:AP:43:LYS:HG3	16:AP:48:TRP:CE3	2.51	0.45
21:AU:12:LYS:HB3	21:AU:22:ARG:HD2	1.98	0.45
22:B0:70:GLN:O	22:B0:77:ARG:HA	2.16	0.45
23:B1:11:ARG:CG	23:B1:61:ARG:O	2.65	0.45
30:B8:40:GLU:O	30:B8:40:GLU:CD	2.59	0.45
31:BA:68:G:H2'	31:BA:69:C:C6	2.52	0.45
31:BA:314:A:H2'	31:BA:315:G:H5'	1.99	0.45
31:BA:365:C:H2'	31:BA:366:C:O4'	2.17	0.45
31:BA:542:C:H6	31:BA:542:C:C5'	2.30	0.45
31:BA:748:G:C8	48:BW:89:ALA:HB1	2.51	0.45
31:BA:810:U:O2'	41:BP:33:ARG:CZ	2.65	0.45
31:BA:814:C:C5	41:BP:27:HIS:CE1	3.05	0.45
31:BA:1465:G:H2'	31:BA:1466:G:O5'	2.16	0.45
31:BA:1591:G:C6	31:BA:1592:C:C4	3.05	0.45
35:BF:177:ALA:HB1	35:BF:178:PRO:HD2	1.99	0.45
36:BG:146:TYR:HA	36:BG:149:VAL:HG22	1.98	0.45
39:BN:68:GLU:HA	39:BN:86:PRO:HB3	1.97	0.45
42:BQ:28:ALA:C	42:BQ:29:PHE:CD1	2.95	0.45
44:BS:13:ARG:O	44:BS:14:VAL:HB	2.17	0.45
44:BS:42:ASP:O	44:BS:43:GLU:HB2	2.17	0.45
44:BS:67:ARG:N	44:BS:69:VAL:HG12	2.28	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BY:7:VAL:HB	50:BY:8:LYS:CD	2.46	0.45
50:BY:8:LYS:CB	50:BY:28:LYS:HZ3	2.29	0.45
1:CA:78:G:H1	1:CA:91:C:N4	2.14	0.45
1:CA:565:U:C6	1:CA:566:G:C8	3.05	0.45
1:CA:1004:A:N7	1:CA:1036:G:O6	2.50	0.45
1:CA:1060:C:H4'	10:CJ:51:ARG:HB3	1.99	0.45
1:CA:1091:U:O2	1:CA:1093:A:C8	2.70	0.45
5:CE:11:ILE:HB	5:CE:31:LEU:HB3	1.98	0.45
8:CH:24:THR:HG22	8:CH:25:ASP:N	2.32	0.45
10:CJ:54:PHE:CZ	10:CJ:55:LYS:HD2	2.52	0.45
11:CK:77:MET:SD	11:CK:80:VAL:HG12	2.57	0.45
13:CM:3:ARG:HA	13:CM:9:ILE:HG13	1.99	0.45
18:CR:74:ARG:HG3	18:CR:79:LEU:HB3	1.98	0.45
22:D0:25:ARG:HA	22:D0:29:GLN:HE22	1.81	0.45
24:D2:34:GLU:O	24:D2:36:ARG:HB2	2.17	0.45
28:D6:16:CYS:O	28:D6:17:LYS:CB	2.54	0.45
31:DA:688:U:H5'	31:DA:1780:A:N1	2.32	0.45
31:DA:742:G:H2'	31:DA:743:G:C8	2.51	0.45
31:DA:806:C:O2	31:DA:2444:G:O2'	2.35	0.45
31:DA:1131:G:HO2'	31:DA:1132:A:H8	1.63	0.45
31:DA:1317:A:C5	31:DA:1318:C:C5	3.05	0.45
31:DA:1462:C:H4'	31:DA:2703:C:H5'	1.99	0.45
31:DA:1531:C:C3'	31:DA:1532:C:H5'	2.46	0.45
31:DA:1653:G:H4'	31:DA:1654:A:O5'	2.17	0.45
31:DA:2256:G:H2'	31:DA:2257:U:C6	2.52	0.45
31:DA:2441:C:O2	31:DA:2441:C:H2'	2.16	0.45
31:DA:2505:G:H2'	31:DA:2576:G:O6	2.16	0.45
31:DA:2517:C:N1	31:DA:2542:A:N1	2.65	0.45
31:DA:2808:U:H2'	31:DA:2809:A:H5'	1.98	0.45
31:DA:2869:G:H2'	31:DA:2870:C:O4'	2.17	0.45
33:DD:71:ASP:CG	33:DD:103:ARG:HH22	2.25	0.45
33:DD:80:ALA:HB2	33:DD:96:HIS:CD2	2.51	0.45
33:DD:253:GLN:HB3	33:DD:255:LYS:HZ1	1.77	0.45
34:DE:146:THR:HA	34:DE:147:PRO:C	2.40	0.45
36:DG:35:GLU:O	36:DG:35:GLU:HG2	2.17	0.45
38:DI:75:LEU:HD12	38:DI:76:THR:N	2.32	0.45
39:DN:3:THR:CA	39:DN:4:TYR:CD1	2.99	0.45
39:DN:34:LEU:O	39:DN:49:GLY:HA3	2.16	0.45
39:DN:82:LEU:HD12	39:DN:82:LEU:N	2.24	0.45
39:DN:86:PRO:O	39:DN:89:LYS:HB2	2.16	0.45
40:DO:75:SER:OG	40:DO:76:ALA:N	2.49	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DQ:132:VAL:HG11	51:DZ:81:ARG:HD2	1.99	0.45
45:DT:34:VAL:HG13	45:DT:39:ARG:HA	1.99	0.45
50:DY:50:ARG:HB3	50:DY:51:VAL:H	1.67	0.45
50:DY:84:ARG:HB3	50:DY:85:VAL:H	1.65	0.45
51:DZ:28:MET:HG3	51:DZ:35:ARG:HB2	1.99	0.45
1:AA:184:G:N2	1:AA:194:C:C2	2.85	0.45
1:AA:369:C:O2	1:AA:369:C:H2'	2.15	0.45
1:AA:370:C:N3	1:AA:371:G:C5	2.85	0.45
1:AA:451:A:C5	1:AA:481:G:C6	3.04	0.45
1:AA:613:C:N4	1:AA:627:G:H1	2.11	0.45
1:AA:827:U:H5"	1:AA:828:A:OP2	2.17	0.45
1:AA:1308:U:H2'	1:AA:1309:G:C8	2.52	0.45
1:AA:1316:G:H1	19:AS:5:LEU:CD2	2.30	0.45
1:AA:1387:G:H2'	1:AA:1387:G:N3	2.31	0.45
2:AB:114:ARG:HH11	2:AB:118:LEU:HD21	1.81	0.45
4:AD:74:GLN:HE22	4:AD:137:SER:HB3	1.81	0.45
4:AD:78:LEU:O	4:AD:79:PHE:C	2.59	0.45
9:AI:46:ALA:O	9:AI:49:PRO:HD2	2.16	0.45
13:AM:69:GLU:HB3	13:AM:72:ALA:HB3	1.98	0.45
16:AP:27:LYS:O	16:AP:30:GLY:N	2.49	0.45
16:AP:34:GLU:OE2	16:AP:55:ARG:HD3	2.17	0.45
16:AP:39:TYR:CD1	16:AP:40:ASP:N	2.85	0.45
18:AR:25:THR:HG22	18:AR:42:ARG:NH1	2.32	0.45
19:AS:7:LYS:HD3	19:AS:7:LYS:N	2.32	0.45
23:B1:19:GLN:OE1	23:B1:44:PRO:HB3	2.16	0.45
23:B1:87:PRO:CG	23:B1:88:LYS:N	2.80	0.45
28:B6:41:PRO:HB2	28:B6:43:CYS:H	1.81	0.45
30:B8:2:PRO:O	30:B8:3:LYS:C	2.59	0.45
31:BA:892:G:N7	31:BA:893:C:C4	2.85	0.45
31:BA:1341:U:C2'	31:BA:1397:U:O2	2.64	0.45
31:BA:1475:G:C8	31:BA:1475:G:H5"	2.52	0.45
31:BA:2074:U:O2'	31:BA:2075:U:H5'	2.17	0.45
31:BA:2632:A:O2'	31:BA:2811:G:O2'	2.26	0.45
31:BA:2826:A:H2'	31:BA:2827:C:O5'	2.17	0.45
35:BF:140:LEU:CD2	35:BF:170:LEU:HD11	2.45	0.45
36:BG:18:GLU:HG2	36:BG:175:LEU:HD21	1.98	0.45
36:BG:51:ARG:HD3	36:BG:53:LEU:HD21	1.98	0.45
36:BG:85:GLY:O	36:BG:87:PRO:CD	2.56	0.45
40:BO:60:ALA:HB2	40:BO:86:ILE:HA	1.99	0.45
41:BP:8:PRO:C	41:BP:10:PRO:HD3	2.42	0.45
46:BU:91:ASP:O	46:BU:95:LEU:HB2	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BV:47:VAL:HG22	47:BV:48:GLY:N	2.32	0.45
47:BV:66:ARG:HH11	47:BV:66:ARG:HG2	1.81	0.45
49:BX:77:LYS:CG	49:BX:78:LYS:H	2.30	0.45
1:CA:374:A:C2	1:CA:375:U:C2	3.04	0.45
1:CA:491:G:C4	1:CA:492:G:C8	3.05	0.45
1:CA:492:G:C5	1:CA:493:G:N7	2.85	0.45
1:CA:971:G:H1'	1:CA:1365:G:O2'	2.17	0.45
1:CA:1347:G:C6	9:CI:107:ARG:NH2	2.85	0.45
2:CB:67:THR:HG22	2:CB:90:MET:CE	2.47	0.45
2:CB:97:TRP:CH2	2:CB:176:GLU:CD	2.94	0.45
3:CC:29:TYR:OH	14:CN:54:PRO:HD2	2.16	0.45
4:CD:11:LEU:O	4:CD:12:CYS:C	2.60	0.45
4:CD:49:ARG:HA	4:CD:49:ARG:NE	2.28	0.45
4:CD:146:ILE:N	4:CD:146:ILE:CD1	2.75	0.45
5:CE:75:THR:OG1	5:CE:76:ILE:N	2.49	0.45
6:CF:50:TYR:HE2	6:CF:52:ILE:HG12	1.80	0.45
6:CF:52:ILE:O	6:CF:52:ILE:HG22	2.17	0.45
7:CG:153:HIS:HA	7:CG:155:ARG:HH12	1.82	0.45
10:CJ:14:LYS:HE3	10:CJ:14:LYS:HB2	1.79	0.45
12:CL:38:THR:CG2	12:CL:39:VAL:N	2.80	0.45
17:CQ:3:LYS:CD	17:CQ:60:ILE:HD11	2.45	0.45
22:D0:36:ILE:HG12	22:D0:37:LEU:N	2.31	0.45
28:D6:19:ARG:HE	28:D6:19:ARG:HB3	1.45	0.45
28:D6:45:LYS:HB3	31:DA:2371:G:H4'	1.99	0.45
30:D8:4:MET:CE	31:DA:592:G:N3	2.76	0.45
30:D8:32:LEU:HB3	30:D8:34:TRP:HB3	1.98	0.45
30:D8:32:LEU:HB2	30:D8:35:GLN:N	2.26	0.45
31:DA:192:C:C2'	31:DA:193:U:H5'	2.47	0.45
31:DA:514:A:H1'	31:DA:581:C:O2'	2.16	0.45
31:DA:707:G:C6	31:DA:708:C:C4	3.05	0.45
31:DA:861:A:C2	31:DA:917:A:N3	2.85	0.45
31:DA:900:A:C5'	31:DA:901:A:OP2	2.65	0.45
31:DA:1006:C:C2	31:DA:1138:G:N2	2.84	0.45
31:DA:1330:C:O2'	31:DA:1331:A:H5'	2.16	0.45
31:DA:1359:A:N7	31:DA:1372:U:O4	2.50	0.45
31:DA:1451:C:N3	31:DA:1459:G:O6	2.50	0.45
31:DA:1528(A):A:C8	31:DA:1529:G:C8	3.05	0.45
31:DA:2077:A:H1'	31:DA:2435:A:O4'	2.17	0.45
31:DA:2657:A:C2	31:DA:2664:G:N2	2.72	0.45
31:DA:2826:A:C2'	31:DA:2827:C:O5'	2.64	0.45
31:DA:2876:G:C5'	45:DT:2:ASN:O	2.65	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DB:87:G:H3'	32:DB:88:C:C5'	2.42	0.45
34:DE:1:MET:CB	34:DE:83:ASP:O	2.61	0.45
34:DE:6:GLY:HA2	34:DE:51:PHE:CZ	2.52	0.45
39:DN:7:LYS:H	39:DN:7:LYS:HG3	1.56	0.45
1:AA:78:G:H1	1:AA:91:C:N4	2.15	0.45
1:AA:262:A:H2'	1:AA:263:A:C8	2.52	0.45
1:AA:367:U:O2	1:AA:369:C:C6	2.69	0.45
1:AA:376:G:C4	1:AA:389:A:C2	3.05	0.45
1:AA:448:A:H2'	1:AA:449:C:C6	2.51	0.45
1:AA:713:G:H2'	1:AA:714:G:C8	2.52	0.45
1:AA:784:C:H4'	31:BA:1837:C:OP1	2.16	0.45
1:AA:923:A:O2'	1:AA:924:C:H5'	2.17	0.45
1:AA:961:U:OP2	1:AA:1223:C:H4'	2.17	0.45
1:AA:1014:A:H2	1:AA:1219:U:O2	2.00	0.45
1:AA:1086:U:H2'	1:AA:1087:G:C8	2.41	0.45
1:AA:1097:C:C1'	1:AA:1170:A:H1'	2.37	0.45
1:AA:1344:C:O2'	1:AA:1345:U:H5'	2.16	0.45
1:AA:1483:A:C2	31:BA:1959:G:N3	2.85	0.45
2:AB:114:ARG:HD2	2:AB:141:GLU:OE1	2.17	0.45
8:AH:51:VAL:HB	8:AH:52:ASP:H	1.68	0.45
9:AI:45:ALA:O	9:AI:78:LYS:HE3	2.18	0.45
11:AK:80:VAL:O	11:AK:80:VAL:HG23	2.15	0.45
11:AK:111:ASP:CA	18:AR:84:LYS:HG3	2.41	0.45
13:AM:56:LEU:O	13:AM:60:VAL:HG23	2.16	0.45
16:AP:68:ASP:C	16:AP:70:ALA:N	2.73	0.45
17:AQ:100:LYS:HA	17:AQ:100:LYS:HD3	1.82	0.45
24:B2:15:LYS:CA	24:B2:18:PRO:HD2	2.46	0.45
24:B2:54:LYS:H	24:B2:56:GLN:HE21	1.65	0.45
27:B5:25:LEU:HD12	48:BW:19:LEU:HB3	1.99	0.45
27:B5:48:GLU:C	27:B5:50:GLY:N	2.74	0.45
28:B6:11:LEU:HD11	28:B6:26:ASN:ND2	2.32	0.45
31:BA:342:G:C2'	31:BA:343:C:H5'	2.47	0.45
31:BA:626:U:H5"	31:BA:627:A:C5'	2.47	0.45
31:BA:856:C:H3'	31:BA:857:C:C6	2.51	0.45
31:BA:964:C:O2'	31:BA:2273:A:H1'	2.16	0.45
31:BA:1114:G:H2'	31:BA:1115:G:H5'	1.99	0.45
31:BA:1296:G:O2'	31:BA:1297:C:H5'	2.16	0.45
31:BA:1531:C:C3'	31:BA:1532:C:H5'	2.46	0.45
31:BA:1786:A:H4'	31:BA:1787:A:OP2	2.17	0.45
31:BA:2094:G:O2'	31:BA:2095:C:H5'	2.17	0.45
31:BA:2517:C:N1	31:BA:2542:A:N1	2.65	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2702:U:OP1	31:BA:2702:U:O4'	2.35	0.45
31:BA:2889:C:H2'	31:BA:2891:G:C5'	2.47	0.45
34:BE:13:ARG:NH2	45:BT:77:PRO:HG3	2.33	0.45
35:BF:123:LEU:HD12	35:BF:124:LEU:H	1.81	0.45
35:BF:192:LEU:CD1	35:BF:194:MET:HE2	2.47	0.45
36:BG:153:ARG:HB3	36:BG:153:ARG:CZ	2.47	0.45
39:BN:35:ARG:HB2	39:BN:42:TRP:CZ3	2.52	0.45
39:BN:119:ARG:HH11	39:BN:119:ARG:HG3	1.82	0.45
41:BP:7:ARG:HB3	41:BP:8:PRO:HD3	1.99	0.45
41:BP:101:VAL:HB	41:BP:106:LEU:HB3	1.99	0.45
42:BQ:31:ASP:O	42:BQ:133:ARG:O	2.35	0.45
43:BR:8:ARG:HA	43:BR:8:ARG:NE	2.32	0.45
43:BR:9:LYS:O	43:BR:10:LEU:CG	2.65	0.45
45:BT:32:TYR:HD2	45:BT:81:PRO:O	2.00	0.45
46:BU:91:ASP:OD2	46:BU:96:ALA:N	2.49	0.45
49:BX:8:ILE:N	49:BX:8:ILE:HD12	2.32	0.45
49:BX:59:VAL:O	49:BX:60:ARG:O	2.35	0.45
1:CA:90:U:H6	1:CA:90:U:H3'	1.82	0.45
1:CA:552:U:H4'	12:CL:86:ARG:CG	2.43	0.45
1:CA:617:G:N1	1:CA:618:C:C5	2.85	0.45
1:CA:681:C:N3	1:CA:710:G:C2	2.85	0.45
1:CA:769:G:H4'	1:CA:1513:A:H4'	1.99	0.45
1:CA:779:C:H2'	1:CA:780:A:O4'	2.17	0.45
1:CA:1264:C:H2'	1:CA:1265:G:C8	2.49	0.45
1:CA:1277:C:C2'	1:CA:1278:U:H5'	2.47	0.45
1:CA:1287:A:H2	1:CA:1353:G:N3	2.15	0.45
1:CA:1442:G:H8	1:CA:1442:G:H2'	1.63	0.45
2:CB:87:ARG:HE	2:CB:233:SER:CB	2.27	0.45
3:CC:29:TYR:CD2	3:CC:29:TYR:C	2.95	0.45
3:CC:106:VAL:C	3:CC:108:ASN:H	2.25	0.45
5:CE:118:ILE:O	5:CE:118:ILE:HG23	2.17	0.45
7:CG:46:ALA:O	7:CG:50:ILE:HG12	2.16	0.45
8:CH:83:ILE:HG23	8:CH:83:ILE:O	2.16	0.45
9:CI:4:TYR:HD2	9:CI:59:PHE:HE2	1.65	0.45
18:CR:62:GLU:HA	18:CR:65:ILE:HD12	1.99	0.45
19:CS:44:MET:HA	19:CS:44:MET:CE	2.43	0.45
19:CS:58:VAL:O	19:CS:58:VAL:HG23	2.17	0.45
19:CS:69:HIS:CB	19:CS:74:PHE:HE2	2.30	0.45
23:D1:62:VAL:HG22	23:D1:63:ALA:N	2.32	0.45
31:DA:528:A:C2	31:DA:2043:C:C4'	2.97	0.45
31:DA:752:A:H4'	31:DA:753:C:O5'	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1324:G:C2	31:DA:1328:G:N1	2.85	0.45
31:DA:1529:G:N3	31:DA:1530:C:H5"	2.32	0.45
31:DA:1642:G:C2'	31:DA:1643:G:H5'	2.47	0.45
31:DA:1751:C:C2'	31:DA:1752:C:H5'	2.46	0.45
31:DA:1892:C:H6	31:DA:1892:C:O5'	2.00	0.45
31:DA:2082:A:H2'	31:DA:2083:G:O4'	2.15	0.45
31:DA:2086:U:H2'	31:DA:2087:G:C8	2.51	0.45
31:DA:2232:U:O2'	31:DA:2233:U:H5'	2.17	0.45
31:DA:2438:U:H5"	31:DA:2600:A:OP1	2.16	0.45
31:DA:2808:U:H2'	31:DA:2809:A:C5'	2.47	0.45
31:DA:2849:U:P	45:DT:95:ARG:HH12	2.41	0.45
33:DD:44:ASN:OD1	33:DD:44:ASN:N	2.49	0.45
33:DD:70:TRP:CZ3	33:DD:146:GLU:OE2	2.70	0.45
36:DG:16:ARG:HH11	36:DG:31:VAL:HG21	1.79	0.45
37:DH:89:ILE:C	37:DH:90:LYS:HG2	2.42	0.45
40:DO:103:ALA:O	40:DO:106:LEU:HB2	2.17	0.45
42:DQ:8:LYS:CD	42:DQ:9:TYR:H	2.30	0.45
44:DS:91:PRO:O	44:DS:93:LYS:N	2.50	0.45
48:DW:24:ILE:O	48:DW:27:LYS:HG3	2.16	0.45
49:DX:18:TYR:HA	49:DX:21:PHE:CE1	2.52	0.45
49:DX:18:TYR:C	49:DX:20:GLY:N	2.74	0.45
49:DX:59:VAL:CG2	49:DX:60:ARG:H	2.23	0.45
50:DY:43:ASN:O	50:DY:44:ILE:O	2.35	0.45
1:AA:35:G:C6	1:AA:36:C:N4	2.85	0.44
1:AA:407:G:C2	1:AA:436:C:N3	2.85	0.44
1:AA:747:C:C5	1:AA:748:C:N3	2.85	0.44
1:AA:807:A:C6	1:AA:808:C:C4	3.05	0.44
1:AA:868:C:H2'	1:AA:869:G:O4'	2.17	0.44
1:AA:872:A:C4	1:AA:874:G:C8	3.04	0.44
1:AA:1015:A:C6	1:AA:1016:A:C5	3.05	0.44
1:AA:1037:C:H2'	1:AA:1038:C:O4'	2.17	0.44
1:AA:1066:C:C5'	1:AA:1067:A:OP2	2.60	0.44
1:AA:1322:C:P	19:AS:78:ARG:HH22	2.41	0.44
1:AA:1517:G:H1'	31:BA:1919:A:O3'	2.17	0.44
5:AE:139:LEU:CA	5:AE:142:LEU:HD12	2.43	0.44
8:AH:89:PRO:HA	8:AH:92:ARG:NH1	2.32	0.44
9:AI:36:TYR:CE1	9:AI:70:LYS:NZ	2.85	0.44
9:AI:118:LYS:HB3	9:AI:118:LYS:HZ3	1.82	0.44
10:AJ:44:VAL:HG11	10:AJ:46:ARG:NE	2.32	0.44
17:AQ:19:VAL:HG23	17:AQ:44:ALA:HB3	1.99	0.44
18:AR:84:LYS:HD3	18:AR:84:LYS:HA	1.80	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:56:MET:HE3	20:AT:84:LEU:HD12	1.99	0.44
26:B4:12:ALA:O	36:BG:101:ILE:HD11	2.16	0.44
28:B6:20:ASN:OD1	28:B6:21:TYR:N	2.50	0.44
31:BA:14:A:C6	31:BA:526:A:C2	3.04	0.44
31:BA:189:G:H1	31:BA:205:G:HO2'	1.65	0.44
31:BA:374:A:C8	31:BA:375:C:C5	3.06	0.44
31:BA:523:C:H4'	31:BA:540:C:O2	2.17	0.44
31:BA:542:C:C5'	31:BA:542:C:C6	3.00	0.44
31:BA:736:C:O2'	31:BA:737:C:H5'	2.17	0.44
31:BA:832:G:H21	41:BP:53:GLY:HA3	1.83	0.44
31:BA:2263:C:O2'	31:BA:2264:C:H5'	2.17	0.44
31:BA:2335:A:N7	31:BA:2337:G:C5	2.84	0.44
31:BA:2498:C:O2'	31:BA:2499:C:H5'	2.17	0.44
31:BA:2881:C:H2'	31:BA:2882:A:O4'	2.17	0.44
33:BD:134:ARG:HH11	33:BD:134:ARG:HG2	1.82	0.44
33:BD:244:ARG:HA	33:BD:245:PRO:HA	1.68	0.44
34:BE:14:ILE:CG1	34:BE:21:VAL:HG22	2.47	0.44
35:BF:7:TYR:CD1	35:BF:8:GLN:N	2.85	0.44
36:BG:16:ARG:N	36:BG:17:PRO:HD2	2.31	0.44
39:BN:53:VAL:HG12	39:BN:54:VAL:N	2.33	0.44
44:BS:24:LEU:HB3	44:BS:85:VAL:CG1	2.47	0.44
47:BV:5:VAL:HG23	47:BV:36:PRO:HB2	2.00	0.44
49:BX:36:LYS:C	49:BX:38:GLU:N	2.76	0.44
1:CA:577:G:H1'	1:CA:816:A:C4	2.52	0.44
1:CA:579:G:C6	1:CA:580:U:C4	3.04	0.44
1:CA:579:G:C4	1:CA:580:U:C5	3.05	0.44
1:CA:876:G:H2'	1:CA:877:C:C6	2.51	0.44
1:CA:1016:A:H2'	1:CA:1017:G:O4'	2.16	0.44
1:CA:1496:C:H2'	1:CA:1497:G:O4'	2.17	0.44
4:CD:33:MET:C	4:CD:35:ARG:N	2.75	0.44
6:CF:26:ILE:O	6:CF:30:LEU:HG	2.16	0.44
8:CH:29:SER:HB3	8:CH:32:LYS:HD2	1.98	0.44
8:CH:93:VAL:O	8:CH:93:VAL:HG12	2.16	0.44
9:CI:46:ALA:O	9:CI:49:PRO:HD2	2.17	0.44
9:CI:53:VAL:HG12	9:CI:95:LYS:HG2	1.99	0.44
12:CL:38:THR:HG22	12:CL:57:LYS:O	2.17	0.44
13:CM:106:ASN:O	13:CM:107:ALA:CB	2.65	0.44
20:CT:13:LEU:HD12	20:CT:13:LEU:N	2.18	0.44
23:D1:18:ILE:HD12	23:D1:18:ILE:N	2.32	0.44
28:D6:9:LEU:HD22	28:D6:9:LEU:C	2.39	0.44
30:D8:61:LEU:HD23	30:D8:61:LEU:HA	1.75	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:62:LEU:HB3	31:DA:242:G:H5'	1.99	0.44
31:DA:7:G:H1	31:DA:2896:C:N4	2.15	0.44
31:DA:142(A):C:O2'	31:DA:143:G:H5'	2.18	0.44
31:DA:196:A:C4	31:DA:805:G:O6	2.71	0.44
31:DA:236:C:H2'	31:DA:237:C:H6	1.81	0.44
31:DA:518:G:H4'	48:DW:18:ARG:HH12	1.75	0.44
31:DA:1012:U:C5	39:DN:28:THR:HG21	2.52	0.44
31:DA:1176:G:C1'	31:DA:1177:A:OP1	2.65	0.44
31:DA:1279:G:H4'	43:DR:31:HIS:CD2	2.52	0.44
31:DA:1374:G:C5	31:DA:1375:C:C4	3.05	0.44
31:DA:1439:A:C2	31:DA:1553:A:C5	3.05	0.44
31:DA:1503:U:C2'	31:DA:1504:C:O5'	2.65	0.44
31:DA:1578:U:OP2	31:DA:1578:U:C6	2.67	0.44
31:DA:1654:A:C1'	31:DA:2823:A:H5'	2.47	0.44
31:DA:2228:G:H2'	31:DA:2229:C:C6	2.52	0.44
31:DA:2319:G:OP2	31:DA:2319:G:H4'	2.16	0.44
31:DA:2467:C:O2'	31:DA:2468:G:H5'	2.18	0.44
31:DA:2646:C:O5'	31:DA:2646:C:H6	2.00	0.44
31:DA:2661:G:C8	31:DA:2662:A:N3	2.85	0.44
32:DB:6:C:C2	32:DB:116:G:N2	2.85	0.44
32:DB:14:U:O2	32:DB:14:U:O4'	2.30	0.44
35:DF:8:GLN:O	35:DF:9:ILE:C	2.60	0.44
36:DG:86:MET:O	36:DG:87:PRO:C	2.58	0.44
39:DN:56:ASN:N	39:DN:125:GLY:HA3	2.23	0.44
40:DO:10:VAL:O	40:DO:10:VAL:HG23	2.17	0.44
41:DP:13:ASN:O	41:DP:15:ARG:N	2.50	0.44
41:DP:77:ARG:HE	41:DP:77:ARG:HB3	1.65	0.44
43:DR:12:ARG:HH11	43:DR:12:ARG:CG	2.30	0.44
45:DT:108:ARG:HG3	45:DT:109:GLU:N	2.31	0.44
46:DU:115:ALA:C	46:DU:117:GLN:N	2.76	0.44
48:DW:13:SER:HB3	48:DW:16:LYS:HD3	1.99	0.44
50:DY:65:ALA:HA	50:DY:66:PRO:HD2	1.49	0.44
50:DY:97:ARG:O	50:DY:98:VAL:O	2.35	0.44
51:DZ:5:LEU:HD21	51:DZ:43:GLU:HB3	1.99	0.44
51:DZ:145:GLU:C	51:DZ:147:GLY:N	2.73	0.44
1:AA:410:G:C2	1:AA:429:U:C2	3.04	0.44
1:AA:559:A:H4'	1:AA:560:U:O5'	2.16	0.44
1:AA:675:A:C4	1:AA:676:A:C8	3.05	0.44
1:AA:685:G:O2'	1:AA:686:U:C5'	2.54	0.44
1:AA:811:C:H4'	1:AA:900:A:N6	2.31	0.44
1:AA:994:A:N6	1:AA:1046:A:H2	2.15	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1064:G:C1'	1:AA:1065:U:OP2	2.63	0.44
1:AA:1072:G:C6	1:AA:1073:U:C4	3.05	0.44
1:AA:1293:G:O2'	1:AA:1294:G:P	2.75	0.44
2:AB:134:GLU:O	2:AB:138:LEU:HD12	2.17	0.44
2:AB:174:VAL:O	2:AB:178:ARG:HB2	2.17	0.44
3:AC:120:VAL:O	3:AC:121:ALA:C	2.59	0.44
4:AD:11:LEU:O	4:AD:12:CYS:C	2.61	0.44
5:AE:78:HIS:HE1	5:AE:142:LEU:HA	1.81	0.44
8:AH:103:VAL:CG2	8:AH:110:ALA:HB2	2.48	0.44
9:AI:42:ARG:HH22	9:AI:75:ASP:CG	2.25	0.44
10:AJ:62:HIS:CE1	14:AN:61:TRP:CH2	3.05	0.44
12:AL:60:LEU:HD21	12:AL:66:VAL:HG22	1.99	0.44
12:AL:70:ILE:N	12:AL:70:ILE:HD12	2.33	0.44
12:AL:76:ASN:C	12:AL:77:LEU:HD23	2.41	0.44
20:AT:100:ILE:O	20:AT:102:GLY:N	2.50	0.44
31:BA:108:U:C2	31:BA:109:G:C8	3.05	0.44
31:BA:319:C:O2'	31:BA:320:A:H5'	2.17	0.44
31:BA:389:G:H1	41:BP:71:VAL:H	1.65	0.44
31:BA:513:A:N1	31:BA:514:A:C5	2.85	0.44
31:BA:909:A:C4	31:BA:912:C:C5	3.06	0.44
31:BA:947:G:H2'	31:BA:948:G:H8	1.82	0.44
31:BA:1397:U:O2'	31:BA:1398:C:OP1	2.28	0.44
31:BA:1458:C:H4'	31:BA:1459:G:C4	2.52	0.44
31:BA:1503:U:C2'	31:BA:1504:C:O5'	2.65	0.44
31:BA:1588:C:O2	31:BA:1588:C:H2'	2.17	0.44
31:BA:1902:C:HO2'	33:BD:244:ARG:HB2	1.75	0.44
31:BA:1916:A:H2'	31:BA:1917:U:O4'	2.16	0.44
31:BA:1962:C:O3'	31:BA:1963:U:H3'	2.17	0.44
31:BA:2053:G:H5'	34:BE:144:ARG:O	2.16	0.44
31:BA:2286:A:H8	31:BA:2286:A:HO2'	1.57	0.44
31:BA:2299:G:N1	31:BA:2318:G:C8	2.85	0.44
31:BA:2315:G:H2'	31:BA:2316:C:H6	1.78	0.44
31:BA:2352:A:C4	31:BA:2366:A:C2	3.05	0.44
31:BA:2400:G:N3	31:BA:2400:G:H2'	2.31	0.44
31:BA:2639:A:H2'	31:BA:2640:G:H5'	1.98	0.44
32:BB:79:C:O2'	32:BB:80:U:H5'	2.17	0.44
33:BD:4:LYS:HZ2	33:BD:20:ASP:HA	1.82	0.44
33:BD:35:LYS:HZ3	33:BD:104:TYR:CB	2.23	0.44
35:BF:152:GLU:OE1	35:BF:191:ARG:HD2	2.17	0.44
38:BI:73:GLU:O	38:BI:73:GLU:HG3	2.18	0.44
39:BN:100:GLU:O	39:BN:101:HIS:C	2.59	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BQ:141:GLN:C	51:BZ:53:ILE:C	2.85	0.44
43:BR:34:ILE:HG22	43:BR:114:VAL:HB	2.00	0.44
44:BS:57:LYS:HG2	44:BS:58:LEU:H	1.81	0.44
47:BV:12:TYR:N	47:BV:12:TYR:CD2	2.84	0.44
47:BV:69:LYS:CB	47:BV:93:GLU:OE2	2.61	0.44
47:BV:85:LYS:C	47:BV:87:HIS:N	2.61	0.44
49:BX:59:VAL:CG2	49:BX:60:ARG:H	2.24	0.44
50:BY:44:ILE:H	50:BY:44:ILE:HG13	1.47	0.44
51:BZ:166:SER:CB	51:BZ:167:PRO:CA	2.96	0.44
1:CA:375:U:H2'	1:CA:376:G:H8	1.81	0.44
1:CA:407:G:C2	1:CA:436:C:N3	2.86	0.44
1:CA:577:G:H1'	1:CA:816:A:N3	2.32	0.44
1:CA:590:C:O2'	1:CA:591:U:H5'	2.17	0.44
1:CA:686:U:O2'	1:CA:687:A:OP2	2.32	0.44
1:CA:836:G:C6	1:CA:851:G:C5	3.05	0.44
1:CA:1011:G:N2	1:CA:1019:C:C2	2.85	0.44
1:CA:1037:C:H2'	1:CA:1038:C:O4'	2.17	0.44
1:CA:1159:U:C5	1:CA:1182:G:N3	2.85	0.44
1:CA:1256:A:O3'	1:CA:1257:U:H4'	2.17	0.44
1:CA:1477:C:H2'	1:CA:1478:C:H6	1.81	0.44
2:CB:71:VAL:HB	2:CB:164:VAL:HG22	2.00	0.44
2:CB:149:LEU:HD22	2:CB:152:PHE:HB3	2.00	0.44
4:CD:163:GLU:C	4:CD:165:MET:N	2.76	0.44
6:CF:5:GLU:O	6:CF:7:ASN:ND2	2.51	0.44
6:CF:20:ALA:O	6:CF:23:LYS:HB2	2.17	0.44
7:CG:111:ARG:HB3	7:CG:113:GLU:HG2	2.00	0.44
8:CH:89:PRO:HA	8:CH:92:ARG:NH1	2.32	0.44
8:CH:113:SER:H	8:CH:134:ILE:HG12	1.80	0.44
16:CP:39:TYR:CD1	16:CP:40:ASP:N	2.85	0.44
16:CP:45:THR:O	16:CP:47:ASP:N	2.49	0.44
22:D0:84:LEU:H	22:D0:84:LEU:HD12	1.82	0.44
24:D2:53:LEU:HA	24:D2:56:GLN:NE2	2.32	0.44
28:D6:39:TYR:HD2	28:D6:49:HIS:CE1	2.36	0.44
30:D8:37:SER:HB2	30:D8:39:LYS:H	1.81	0.44
31:DA:51:G:N3	31:DA:119:A:C2	2.85	0.44
31:DA:174:C:C2'	31:DA:175:G:H5"	2.47	0.44
31:DA:184:C:C2	31:DA:185:U:C5	3.05	0.44
31:DA:256:A:O2'	31:DA:257:A:H5'	2.16	0.44
31:DA:336:C:H5"	50:DY:7:VAL:CG1	2.48	0.44
31:DA:1178:C:H2'	31:DA:1179:C:C6	2.52	0.44
31:DA:1269:A:H2'	31:DA:1270:C:C6	2.52	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1450(A):C:O5'	31:DA:1450(A):C:H6	2.00	0.44
31:DA:1500:G:C6	31:DA:1501:C:N4	2.86	0.44
31:DA:1696:G:C6	31:DA:1697:G:C5	3.06	0.44
31:DA:1819:A:H4'	31:DA:1820:U:O5'	2.17	0.44
31:DA:2056:G:N2	31:DA:2057:A:C1'	2.81	0.44
31:DA:2702:U:OP1	31:DA:2702:U:O4'	2.35	0.44
31:DA:2881:C:H2'	31:DA:2882:A:O4'	2.16	0.44
31:DA:2889:C:H2'	31:DA:2891:G:C5'	2.48	0.44
32:DB:59:A:H2'	32:DB:60:C:O4'	2.18	0.44
35:DF:89:VAL:O	35:DF:91:GLY:N	2.49	0.44
36:DG:86:MET:HB2	36:DG:87:PRO:HD2	1.98	0.44
39:DN:1:MET:CB	47:DV:20:LEU:HD22	2.46	0.44
42:DQ:54:MET:HE2	42:DQ:54:MET:HB2	1.85	0.44
42:DQ:134:ARG:HB3	42:DQ:135:ASP:H	1.54	0.44
43:DR:10:LEU:HB3	43:DR:17:ARG:CD	2.47	0.44
43:DR:34:ILE:HG22	43:DR:114:VAL:HB	1.98	0.44
44:DS:35:ILE:N	44:DS:53:SER:HB2	2.32	0.44
47:DV:5:VAL:HG23	47:DV:36:PRO:HB2	1.96	0.44
47:DV:18:LEU:C	47:DV:18:LEU:HD13	2.41	0.44
48:DW:48:ALA:O	48:DW:49:LYS:C	2.58	0.44
50:DY:8:LYS:CD	50:DY:28:LYS:HZ3	2.30	0.44
50:DY:41:GLY:O	50:DY:43:ASN:OD1	2.36	0.44
51:DZ:119:GLU:C	51:DZ:121:HIS:N	2.75	0.44
1:AA:189(C):C:H2'	1:AA:189(D):C:C5'	2.48	0.44
1:AA:397:A:H5"	1:AA:397:A:N3	2.32	0.44
1:AA:410:G:H8	1:AA:410:G:O5'	2.01	0.44
1:AA:598:U:H2'	1:AA:599:C:C6	2.52	0.44
1:AA:876:G:H2'	1:AA:877:C:C6	2.52	0.44
1:AA:971:G:H1'	1:AA:1365:G:O2'	2.18	0.44
1:AA:1205:U:H5"	3:AC:190:ARG:HH21	1.80	0.44
1:AA:1271:G:H5'	1:AA:1314:C:C5'	2.47	0.44
1:AA:1418:A:C2	31:BA:1948:G:N3	2.83	0.44
2:AB:36:ARG:HB2	2:AB:41:ILE:HD13	1.99	0.44
2:AB:79:ASP:C	2:AB:81:VAL:N	2.74	0.44
7:AG:78:ARG:HB3	7:AG:87:VAL:HG23	1.99	0.44
15:AO:56:LEU:HA	15:AO:59:MET:HE2	1.99	0.44
22:B0:75:LEU:HD23	22:B0:75:LEU:HA	1.65	0.44
31:BA:173:G:C5	31:BA:174:C:C5	3.06	0.44
31:BA:271(Q):G:N3	31:BA:271(R):G:C8	2.86	0.44
31:BA:364:C:O2	31:BA:364:C:C2'	2.65	0.44
31:BA:493:G:H2'	31:BA:494:G:O4'	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:536:A:C2'	31:BA:537:C:O5'	2.64	0.44
31:BA:806:C:O2	31:BA:2444:G:O2'	2.34	0.44
31:BA:825:C:C2'	31:BA:826:U:O5'	2.66	0.44
31:BA:1037:G:H1	31:BA:1118:C:N4	2.13	0.44
31:BA:1261:C:C2'	31:BA:1262:A:O5'	2.65	0.44
31:BA:1269:A:H2'	31:BA:1270:C:C6	2.52	0.44
31:BA:1495:A:H2'	31:BA:1496:A:N3	2.33	0.44
31:BA:2308:G:C2	31:BA:2309:A:N6	2.86	0.44
32:BB:33:G:N2	32:BB:50:G:C4	2.86	0.44
33:BD:17:THR:HG23	33:BD:205:VAL:HB	2.00	0.44
33:BD:33:LEU:O	33:BD:35:LYS:N	2.51	0.44
38:BI:57:ARG:C	38:BI:59:ALA:N	2.75	0.44
39:BN:78:TYR:CD1	39:BN:79:PRO:CB	3.00	0.44
41:BP:24:GLY:HA3	41:BP:33:ARG:NH2	2.25	0.44
41:BP:107:LYS:C	41:BP:109:GLY:N	2.67	0.44
42:BQ:22:LYS:NZ	42:BQ:25:ASP:OD1	2.43	0.44
44:BS:89:ARG:O	44:BS:92:TYR:CB	2.57	0.44
47:BV:47:VAL:CG2	47:BV:49:THR:HB	2.48	0.44
50:BY:89:PHE:C	50:BY:90:LEU:HD23	2.42	0.44
50:BY:97:ARG:O	50:BY:98:VAL:O	2.35	0.44
51:BZ:30:ASN:OD1	51:BZ:33:LEU:HB3	2.18	0.44
1:CA:163:C:H2'	1:CA:164:U:H6	1.81	0.44
1:CA:222:U:C2	1:CA:223:U:C5	3.06	0.44
1:CA:410:G:C2	1:CA:429:U:C2	3.05	0.44
1:CA:448:A:N7	1:CA:486:U:O4	2.50	0.44
1:CA:792:A:C2	1:CA:794:A:C2	3.05	0.44
1:CA:833:U:O2	1:CA:854:G:C2	2.70	0.44
1:CA:892:A:C5	1:CA:893:C:C4	3.05	0.44
1:CA:1015:A:C6	1:CA:1016:A:C5	3.06	0.44
1:CA:1154:G:N3	1:CA:1155:G:C8	2.84	0.44
1:CA:1278:U:O4	10:CJ:99:LYS:HE3	2.18	0.44
1:CA:1362:C:C2'	1:CA:1363:C:H5"	2.48	0.44
6:CF:24:GLU:O	6:CF:28:ARG:HD2	2.17	0.44
8:CH:8:ASP:O	8:CH:9:MET:C	2.61	0.44
9:CI:113:LYS:O	9:CI:116:LYS:HB2	2.17	0.44
10:CJ:44:VAL:HG11	10:CJ:46:ARG:NE	2.32	0.44
11:CK:122:LYS:O	11:CK:126:ARG:HB2	2.17	0.44
17:CQ:63:ARG:HG2	17:CQ:64:PRO:CD	2.46	0.44
17:CQ:67:LYS:CA	17:CQ:70:ARG:HH12	2.24	0.44
23:D1:11:ARG:HG2	23:D1:61:ARG:O	2.18	0.44
24:D2:18:PRO:C	24:D2:20:GLU:N	2.70	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:2:PRO:O	30:D8:3:LYS:C	2.60	0.44
30:D8:59:LYS:CD	41:DP:50:ARG:HB3	2.48	0.44
31:DA:275:G:OP1	31:DA:275:G:O4'	2.35	0.44
31:DA:327:G:C2	31:DA:336:C:C2	3.05	0.44
31:DA:552:G:C6	31:DA:553:G:C5	3.05	0.44
31:DA:659:C:H6	31:DA:659:C:H5"	1.82	0.44
31:DA:777:A:N3	31:DA:778:G:C8	2.85	0.44
31:DA:1003:G:O2'	31:DA:1010:A:N1	2.47	0.44
31:DA:1011:G:C4	31:DA:1013:C:C6	3.06	0.44
31:DA:1226:A:OP1	47:DV:85:LYS:NZ	2.45	0.44
31:DA:1366:A:H2'	31:DA:1367:A:O5'	2.17	0.44
31:DA:1446:C:H2'	31:DA:1447:G:H8	1.83	0.44
31:DA:1464:C:C2	31:DA:1465:G:C8	3.06	0.44
31:DA:1520:G:H3'	31:DA:1523:U:H6	1.83	0.44
31:DA:1644:C:H2'	31:DA:1644:C:O2	2.16	0.44
31:DA:2316:C:H2'	31:DA:2317:C:C6	2.39	0.44
31:DA:2463:C:C2'	31:DA:2464:C:C5'	2.89	0.44
31:DA:2472:G:H5"	31:DA:2472:G:C8	2.45	0.44
31:DA:2473:U:H2'	31:DA:2473:U:O2	2.16	0.44
31:DA:2689:U:H5"	31:DA:2690:C:H5'	1.99	0.44
31:DA:2855:C:H2'	31:DA:2856:C:C6	2.52	0.44
32:DB:78:A:H2'	32:DB:79:C:O4'	2.18	0.44
33:DD:25:THR:O	33:DD:26:LYS:C	2.58	0.44
33:DD:211:ARG:HA	33:DD:214:TRP:CD2	2.53	0.44
34:DE:46:ALA:HA	34:DE:82:ARG:O	2.17	0.44
35:DF:9:ILE:HG12	35:DF:14:PRO:CA	2.46	0.44
35:DF:105:VAL:O	35:DF:106:ARG:C	2.59	0.44
37:DH:20:ALA:HB3	37:DH:23:ARG:HG3	1.98	0.44
38:DI:1:MET:O	38:DI:20:ASP:HA	2.17	0.44
39:DN:53:VAL:HG12	39:DN:54:VAL:N	2.32	0.44
41:DP:21:ARG:O	41:DP:21:ARG:HG2	2.17	0.44
41:DP:100:LEU:HD12	41:DP:100:LEU:HA	1.60	0.44
42:DQ:76:LYS:H	42:DQ:88:GLY:HA2	1.82	0.44
42:DQ:109:VAL:HG12	42:DQ:113:GLN:HB2	1.99	0.44
43:DR:2:ARG:CD	43:DR:2:ARG:N	2.78	0.44
43:DR:111:LEU:HD23	43:DR:111:LEU:HA	1.65	0.44
44:DS:97:ARG:O	44:DS:98:VAL:HG23	2.17	0.44
46:DU:102:GLU:HG3	47:DV:2:PHE:CZ	2.53	0.44
48:DW:86:LEU:HA	48:DW:87:PRO:HD3	1.78	0.44
1:AA:163:C:H2'	1:AA:164:U:H6	1.81	0.44
1:AA:353:A:H5'	1:AA:353:A:C8	2.44	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:432:A:C8	1:AA:433:C:C6	3.05	0.44
1:AA:492:G:C5	1:AA:493:G:N7	2.86	0.44
1:AA:542:G:OP1	4:AD:10:ARG:NH2	2.48	0.44
1:AA:544:G:C4	1:AA:545:C:C5	3.04	0.44
1:AA:580:U:O2'	15:AO:57:LEU:HD13	2.18	0.44
1:AA:640:A:O2'	1:AA:641:U:H5'	2.18	0.44
1:AA:1368:G:C2'	1:AA:1369:C:H5'	2.47	0.44
4:AD:13:ARG:O	4:AD:14:ARG:C	2.59	0.44
6:AF:14:LEU:HD23	6:AF:14:LEU:HA	1.68	0.44
7:AG:26:PHE:CG	7:AG:62:PHE:CE1	3.05	0.44
7:AG:88:PRO:HG3	7:AG:148:ASN:O	2.17	0.44
15:AO:63:ARG:HG3	15:AO:67:LEU:HD12	2.00	0.44
16:AP:14:ASN:N	16:AP:15:PRO:HD3	2.32	0.44
16:AP:39:TYR:HD2	16:AP:73:LEU:HD11	1.78	0.44
16:AP:75:ARG:C	16:AP:77:ALA:H	2.24	0.44
27:B5:2:ALA:HB3	31:BA:747:U:C6	2.52	0.44
31:BA:140:G:O4'	31:BA:141:A:H2	2.00	0.44
31:BA:460:A:C2	31:BA:470:A:C4	3.06	0.44
31:BA:531:C:H4'	31:BA:532:A:H5"	2.00	0.44
31:BA:854:G:H2'	31:BA:855:G:C8	2.53	0.44
31:BA:863:A:OP1	42:BQ:21:THR:HB	2.18	0.44
31:BA:994:C:O2'	31:BA:996:A:OP1	2.24	0.44
31:BA:1412:A:H2'	31:BA:1413:G:C8	2.52	0.44
31:BA:1545:A:H2'	31:BA:1546:C:O4'	2.18	0.44
31:BA:1547:C:H2'	31:BA:1548:C:C6	2.52	0.44
31:BA:2052:G:O4'	34:BE:142:GLY:HA3	2.18	0.44
31:BA:2580:U:H5"	34:BE:131:ALA:CB	2.47	0.44
31:BA:2582:G:C2	31:BA:2583:G:C8	3.04	0.44
31:BA:2636:U:H4'	34:BE:80:GLU:OE1	2.17	0.44
31:BA:2758:A:C2'	31:BA:2759:G:C5'	2.85	0.44
33:BD:10:THR:O	33:BD:11:PRO:O	2.35	0.44
34:BE:87:GLU:O	34:BE:87:GLU:HG3	2.17	0.44
34:BE:144:ARG:HB3	34:BE:145:LYS:H	1.44	0.44
35:BF:22:ALA:HA	35:BF:26:ALA:HB2	1.99	0.44
35:BF:102:PRO:O	35:BF:103:LYS:C	2.60	0.44
36:BG:5:VAL:O	36:BG:6:ALA:C	2.61	0.44
36:BG:44:GLY:O	36:BG:45:GLU:HB3	2.17	0.44
36:BG:88:ILE:CG2	36:BG:89:GLY:N	2.79	0.44
36:BG:96:ARG:O	36:BG:97:ASP:C	2.59	0.44
37:BH:92:ILE:HD12	37:BH:92:ILE:N	2.33	0.44
39:BN:16:ILE:O	39:BN:54:VAL:HA	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BQ:37:LEU:HD12	42:BQ:129:THR:CA	2.48	0.44
42:BQ:38:GLU:HB3	42:BQ:39:PRO:HD2	1.98	0.44
45:BT:28:VAL:HG22	45:BT:47:GLY:N	2.33	0.44
47:BV:72:VAL:CG1	47:BV:88:ARG:HH22	2.30	0.44
49:BX:77:LYS:CG	49:BX:78:LYS:N	2.79	0.44
51:BZ:119:GLU:C	51:BZ:121:HIS:N	2.72	0.44
1:CA:9:G:C6	1:CA:26:A:N6	2.85	0.44
1:CA:577:G:H2'	1:CA:578:C:H6	1.81	0.44
1:CA:779:C:O2'	1:CA:780:A:H5'	2.18	0.44
1:CA:1086:U:O2'	1:CA:1087:G:H5'	2.17	0.44
1:CA:1312:G:H1	1:CA:1325:C:H42	1.66	0.44
3:CC:15:THR:HG22	3:CC:16:ARG:NH1	2.33	0.44
7:CG:16:LEU:CD1	9:CI:42:ARG:HA	2.48	0.44
8:CH:28:ALA:CB	8:CH:57:PRO:O	2.66	0.44
11:CK:125:PHE:H	11:CK:125:PHE:HD1	1.66	0.44
14:CN:29:ARG:NH2	14:CN:41:ARG:HH12	2.15	0.44
16:CP:57:ARG:CZ	16:CP:79:VAL:O	2.65	0.44
20:CT:53:LEU:O	20:CT:54:LYS:C	2.59	0.44
20:CT:100:ILE:O	20:CT:101:GLY:C	2.60	0.44
22:D0:84:LEU:HD12	22:D0:84:LEU:N	2.33	0.44
27:D5:20:ARG:HG2	27:D5:23:HIS:CD2	2.52	0.44
30:D8:40:GLU:O	30:D8:41:ILE:C	2.60	0.44
30:D8:43:GLN:C	30:D8:44:LYS:HD2	2.43	0.44
31:DA:69:C:H2'	31:DA:70:G:C8	2.53	0.44
31:DA:171:G:H2'	31:DA:172:C:C1'	2.46	0.44
31:DA:569:U:C4	31:DA:570:G:C6	3.06	0.44
31:DA:649:G:H2'	31:DA:650:C:C6	2.52	0.44
31:DA:828:U:O2	31:DA:828:U:C3'	2.65	0.44
31:DA:892:G:N3	31:DA:893:C:H5"	2.33	0.44
31:DA:1107:G:H2'	31:DA:1108:U:O4'	2.17	0.44
31:DA:1170:G:H8	31:DA:1170:G:OP2	2.00	0.44
31:DA:1495:A:C4	31:DA:1496:A:C2	3.05	0.44
31:DA:1581:G:H5'	31:DA:1582:C:OP2	2.17	0.44
31:DA:2005:A:H5"	31:DA:2006:C:OP2	2.18	0.44
31:DA:2584:U:O2	31:DA:2584:U:O4'	2.36	0.44
31:DA:2694:G:C5	31:DA:2695:C:C5	3.05	0.44
33:DD:58:HIS:CD2	33:DD:59:LYS:N	2.85	0.44
35:DF:157:VAL:HB	35:DF:194:MET:HB3	1.99	0.44
37:DH:92:ILE:HD12	37:DH:92:ILE:N	2.32	0.44
38:DI:56:LYS:NZ	38:DI:56:LYS:C	2.76	0.44
39:DN:130:HIS:O	39:DN:130:HIS:CG	2.70	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DQ:78:PRO:O	42:DQ:79:LEU:CB	2.65	0.44
44:DS:67:ARG:C	44:DS:69:VAL:N	2.73	0.44
45:DT:98:LYS:HB3	45:DT:100:TYR:CE1	2.52	0.44
46:DU:55:ARG:O	46:DU:56:ASP:C	2.60	0.44
47:DV:15:GLU:O	47:DV:98:GLU:OE2	2.34	0.44
49:DX:18:TYR:O	49:DX:20:GLY:N	2.50	0.44
1:AA:68:G:N2	1:AA:69:G:C4	2.86	0.44
1:AA:119:A:N7	1:AA:288:A:C2	2.85	0.44
1:AA:782:A:H4'	1:AA:1514:C:O2'	2.17	0.44
1:AA:836:G:C6	1:AA:851:G:C5	3.06	0.44
1:AA:962:C:H42	1:AA:974:A:H61	1.65	0.44
1:AA:1350:A:C5	1:AA:1351:U:C4	3.05	0.44
3:AC:5:ILE:HD13	3:AC:5:ILE:O	2.17	0.44
3:AC:11:ARG:O	3:AC:14:ILE:O	2.35	0.44
3:AC:15:THR:HG22	3:AC:16:ARG:HH12	1.83	0.44
3:AC:58:GLU:H	3:AC:65:ALA:CB	2.27	0.44
6:AF:62:TRP:CE2	18:AR:35:ARG:NH2	2.86	0.44
9:AI:46:ALA:C	9:AI:48:GLU:H	2.26	0.44
10:AJ:6:ILE:HG22	10:AJ:98:ILE:CG1	2.47	0.44
10:AJ:8:LEU:HB3	10:AJ:16:LEU:HD21	1.99	0.44
13:AM:68:GLY:O	13:AM:69:GLU:HB2	2.18	0.44
13:AM:81:LEU:HD11	13:AM:88:ARG:HH12	1.82	0.44
28:B6:36:LEU:HD13	28:B6:50:ARG:NH1	2.32	0.44
30:B8:40:GLU:CD	30:B8:40:GLU:C	2.86	0.44
30:B8:56:GLU:HA	30:B8:59:LYS:HZ2	1.81	0.44
31:BA:34:C:C6	31:BA:34:C:C3'	3.00	0.44
31:BA:236:C:H2'	31:BA:237:C:H6	1.82	0.44
31:BA:425:G:C2	31:BA:426:C:C6	3.05	0.44
31:BA:691:C:H4'	33:BD:43:ARG:HG2	1.99	0.44
31:BA:1011:G:C5	31:BA:1013:C:C5	3.06	0.44
31:BA:1131:G:HO2'	31:BA:1132:A:H8	1.63	0.44
31:BA:1242:A:N1	41:BP:8:PRO:HG3	2.32	0.44
31:BA:1368:G:O2'	31:BA:1369:G:H5'	2.18	0.44
31:BA:1448:G:N3	31:BA:1528(A):A:H2	2.15	0.44
31:BA:1578:U:O2	31:BA:1578:U:H2'	2.16	0.44
31:BA:1656:C:O2'	31:BA:1657:C:H5'	2.18	0.44
31:BA:1942:C:C4	31:BA:1943:U:C4	3.05	0.44
31:BA:2010:G:H5"	48:BW:42:ARG:HB2	1.99	0.44
31:BA:2480:C:N4	31:BA:2481:G:C6	2.86	0.44
31:BA:2517:C:C4	31:BA:2542:A:C6	3.06	0.44
31:BA:2723:C:H4'	43:BR:2:ARG:O	2.16	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BB:66:A:C4	32:BB:109:C:C4	3.05	0.44
33:BD:59:LYS:HG3	33:BD:60:ARG:N	2.31	0.44
33:BD:193:VAL:HG13	33:BD:193:VAL:O	2.17	0.44
35:BF:22:ALA:HB1	35:BF:26:ALA:HB1	1.98	0.44
36:BG:36:LYS:HG2	36:BG:38:VAL:HG23	2.00	0.44
36:BG:110:ALA:HA	36:BG:140:ILE:O	2.18	0.44
36:BG:148:MET:O	36:BG:148:MET:HG3	2.18	0.44
37:BH:89:ILE:CD1	37:BH:129:THR:HB	2.42	0.44
38:BI:75:LEU:HD12	38:BI:76:THR:H	1.82	0.44
38:BI:105:HIS:CD2	38:BI:105:HIS:N	2.85	0.44
39:BN:15:LEU:C	39:BN:15:LEU:HD13	2.42	0.44
39:BN:78:TYR:HD1	39:BN:79:PRO:N	2.16	0.44
40:BO:7:TYR:CE1	40:BO:20:MET:HB2	2.52	0.44
41:BP:102:ARG:O	41:BP:103:ALA:CB	2.66	0.44
42:BQ:108:GLY:C	42:BQ:109:VAL:HG23	2.42	0.44
44:BS:34:HIS:CD2	44:BS:34:HIS:N	2.86	0.44
45:BT:13:ARG:HH21	45:BT:15:VAL:CG1	2.30	0.44
45:BT:26:ASP:O	45:BT:26:ASP:OD2	2.35	0.44
49:BX:76:ARG:HD2	49:BX:77:LYS:CB	2.47	0.44
50:BY:39:VAL:CG1	50:BY:40:GLU:H	2.26	0.44
1:CA:96:U:HO2'	1:CA:97:G:P	2.40	0.44
1:CA:150:C:N4	1:CA:170:U:N3	2.65	0.44
1:CA:225:C:H2'	1:CA:226:G:H8	1.83	0.44
1:CA:355:C:H5'	1:CA:389:A:OP2	2.18	0.44
1:CA:399:G:H2'	1:CA:400:C:C6	2.53	0.44
1:CA:448:A:H2'	1:CA:449:C:C6	2.52	0.44
1:CA:499:A:H4'	1:CA:500:G:H5'	1.98	0.44
1:CA:763:G:C4	1:CA:764:C:C5	3.06	0.44
1:CA:788:U:H2'	1:CA:789:U:O4'	2.18	0.44
1:CA:872:A:C2	1:CA:874:G:C6	3.06	0.44
1:CA:1077:G:C6	1:CA:1081:G:O6	2.71	0.44
6:CF:10:LEU:HA	6:CF:84:ASN:O	2.17	0.44
13:CM:84:ILE:CG1	19:CS:66:MET:HE1	2.41	0.44
13:CM:90:LEU:C	13:CM:92:HIS:H	2.26	0.44
23:D1:91:LYS:C	23:D1:94:LEU:HB2	2.42	0.44
23:D1:91:LYS:O	23:D1:92:LYS:HD2	2.18	0.44
31:DA:551:G:O2'	31:DA:1220:A:N3	2.44	0.44
31:DA:873:G:H1	31:DA:904:C:N4	2.14	0.44
31:DA:892:G:N7	31:DA:893:C:C4	2.86	0.44
31:DA:904:C:O2	31:DA:904:C:H2'	2.18	0.44
31:DA:1623:G:C2	31:DA:1624:G:C8	3.06	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2294:C:OP1	44:DS:92:TYR:HE1	1.99	0.44
31:DA:2308:G:C2	31:DA:2309:A:N6	2.86	0.44
31:DA:2626:C:O2'	31:DA:2627:G:H5'	2.18	0.44
35:DF:20:LEU:O	35:DF:23:ASP:HB2	2.18	0.44
35:DF:140:LEU:HA	35:DF:140:LEU:HD13	1.65	0.44
36:DG:81:LYS:O	36:DG:83:ARG:HG3	2.17	0.44
38:DI:96:ASP:O	38:DI:99:GLU:HB3	2.17	0.44
41:DP:83:VAL:HG12	41:DP:112:LEU:HD21	1.98	0.44
45:DT:19:LEU:HD22	45:DT:85:LYS:HB2	2.00	0.44
45:DT:61:PHE:CZ	45:DT:76:PHE:HB2	2.52	0.44
47:DV:26:ASP:C	47:DV:28:GLU:H	2.25	0.44
47:DV:27:ALA:O	47:DV:28:GLU:C	2.61	0.44
49:DX:36:LYS:C	49:DX:38:GLU:N	2.75	0.44
49:DX:55:ASN:HD22	49:DX:55:ASN:N	2.15	0.44
49:DX:77:LYS:CG	49:DX:78:LYS:H	2.30	0.44
51:DZ:146:ILE:HA	51:DZ:174:VAL:HG12	2.00	0.44
1:AA:90:U:H5"	1:AA:91:C:H5'	1.99	0.44
1:AA:120:A:C6	1:AA:122:G:C2	3.05	0.44
1:AA:224:C:H2'	1:AA:225:C:C6	2.53	0.44
1:AA:245:C:O2	1:AA:283:C:N3	2.50	0.44
1:AA:342:C:O2'	1:AA:343:U:H5'	2.18	0.44
1:AA:510:A:H5"	1:AA:511:C:OP2	2.18	0.44
1:AA:973:G:N3	10:AJ:55:LYS:HE2	2.33	0.44
2:AB:19:HIS:O	2:AB:20:GLU:O	2.35	0.44
2:AB:170:GLU:O	2:AB:174:VAL:HG23	2.18	0.44
3:AC:15:THR:HG22	3:AC:16:ARG:NH1	2.33	0.44
3:AC:134:ILE:HG22	3:AC:168:ALA:HB3	1.99	0.44
4:AD:203:VAL:C	4:AD:205:GLU:N	2.76	0.44
6:AF:20:ALA:O	6:AF:23:LYS:HB2	2.17	0.44
7:AG:46:ALA:O	7:AG:50:ILE:HG12	2.17	0.44
8:AH:73:ASP:C	8:AH:75:ARG:H	2.26	0.44
9:AI:112:LYS:HD3	9:AI:112:LYS:C	2.43	0.44
11:AK:69:ALA:O	11:AK:73:MET:HG3	2.18	0.44
12:AL:93:LEU:O	12:AL:94:PRO:C	2.61	0.44
19:AS:58:VAL:O	19:AS:58:VAL:HG23	2.17	0.44
20:AT:53:LEU:O	20:AT:54:LYS:C	2.61	0.44
20:AT:56:MET:C	20:AT:56:MET:HE2	2.42	0.44
31:BA:26:G:H1'	31:BA:515:A:H61	1.82	0.44
31:BA:36:G:C5	31:BA:37:C:C5	3.05	0.44
31:BA:146:G:C8	31:BA:146:G:C5'	2.97	0.44
31:BA:188:G:H2'	31:BA:189:G:H5'	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:405:U:O2	31:BA:405:U:H2'	2.16	0.44
31:BA:452:G:C2	31:BA:458:G:C5	3.06	0.44
31:BA:669:G:H5"	31:BA:669:G:N9	2.32	0.44
31:BA:847:U:C4	31:BA:933:A:N6	2.86	0.44
31:BA:1107:G:H2'	31:BA:1108:U:O4'	2.18	0.44
31:BA:1349:A:N3	31:BA:1349:A:H5'	2.32	0.44
31:BA:1712:C:H2'	31:BA:1713:U:C6	2.52	0.44
31:BA:1839:G:H2'	31:BA:1839:G:N3	2.32	0.44
31:BA:1857:G:H2'	31:BA:1858:G:C1'	2.46	0.44
31:BA:1999:C:H5"	31:BA:2723:C:O2'	2.18	0.44
31:BA:2500:U:H2'	31:BA:2504:U:C5	2.52	0.44
31:BA:2877:G:O2'	31:BA:2878:U:H5'	2.18	0.44
32:BB:78:A:H2'	32:BB:79:C:O4'	2.17	0.44
34:BE:36:ARG:NH1	34:BE:85:ASN:ND2	2.66	0.44
35:BF:132:VAL:HG22	35:BF:133:ASN:H	1.83	0.44
36:BG:71:THR:HB	36:BG:89:GLY:HA3	1.98	0.44
36:BG:114:ILE:HG22	36:BG:114:ILE:O	2.16	0.44
38:BI:62:LYS:HE2	38:BI:134:PRO:CG	2.47	0.44
42:BQ:59:ARG:O	42:BQ:60:ARG:C	2.61	0.44
42:BQ:87:LYS:CA	42:BQ:87:LYS:HE3	2.46	0.44
42:BQ:106:VAL:HG21	42:BQ:114:ALA:HB1	1.98	0.44
44:BS:13:ARG:HH11	44:BS:13:ARG:CG	2.29	0.44
47:BV:71:LEU:C	47:BV:72:VAL:HG23	2.42	0.44
49:BX:25:LYS:HG3	49:BX:26:TYR:HD1	1.81	0.44
51:BZ:28:MET:HG2	51:BZ:37:VAL:HG21	1.99	0.44
1:CA:224:C:C2	1:CA:225:C:C5	3.06	0.44
1:CA:271:C:C2	1:CA:272:C:C5	3.05	0.44
1:CA:375:U:C2	1:CA:376:G:C8	3.06	0.44
1:CA:443:C:C2	1:CA:444:C:C5	3.05	0.44
1:CA:642:A:N7	8:CH:115:SER:HA	2.32	0.44
1:CA:832:C:N4	1:CA:855:G:C6	2.86	0.44
1:CA:962:C:H42	1:CA:974:A:H61	1.65	0.44
1:CA:1012:U:O5'	1:CA:1012:U:H6	2.00	0.44
1:CA:1368:G:C2'	1:CA:1369:C:H5'	2.48	0.44
4:CD:128:VAL:O	4:CD:129:ASN:C	2.60	0.44
7:CG:104:LEU:HD22	7:CG:134:ALA:HB1	1.99	0.44
9:CI:3:GLN:O	9:CI:4:TYR:HD1	2.00	0.44
13:CM:108:ARG:NE	13:CM:114:ARG:HG2	2.32	0.44
15:CO:8:LYS:HG2	15:CO:12:ILE:HD11	2.00	0.44
19:CS:27:GLU:HB3	19:CS:28:LYS:H	1.61	0.44
25:D3:17:LYS:HD3	25:D3:17:LYS:HA	1.55	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:D8:4:MET:O	30:D8:62:LEU:HD12	2.17	0.44
30:D8:29:LYS:O	30:D8:32:LEU:N	2.51	0.44
31:DA:173:G:C6	31:DA:174:C:C4	3.05	0.44
31:DA:239:U:O2	31:DA:239:U:H2'	2.17	0.44
31:DA:705:A:C2'	31:DA:706:A:H5'	2.47	0.44
31:DA:711:G:H2'	31:DA:712:G:O4'	2.17	0.44
31:DA:773:U:H5'	33:DD:47:GLY:HA2	1.99	0.44
31:DA:996:A:OP2	46:DU:92:ARG:CZ	2.66	0.44
31:DA:1022:G:O2'	31:DA:1023:U:OP2	2.28	0.44
31:DA:1475:G:H5"	31:DA:1475:G:H8	1.83	0.44
31:DA:1591:G:C6	31:DA:1592:C:C4	3.05	0.44
31:DA:1832:C:N4	31:DA:1833:U:C4	2.86	0.44
31:DA:1882:C:O2	31:DA:1882:C:C2'	2.61	0.44
31:DA:1952:A:C6	40:DO:22:ILE:CD1	3.01	0.44
31:DA:2199:A:OP2	31:DA:2200:C:H5	2.01	0.44
31:DA:2312:U:O3'	36:DG:71:THR:HG21	2.17	0.44
31:DA:2333:A:C2'	31:DA:2334:G:OP2	2.66	0.44
31:DA:2377:A:O2'	31:DA:2378:A:H5'	2.18	0.44
31:DA:2472:G:H8	31:DA:2472:G:C5'	2.28	0.44
31:DA:2608:G:H5"	31:DA:2609:U:OP2	2.17	0.44
31:DA:2839:G:H5'	43:DR:46:GLY:HA3	1.99	0.44
31:DA:2850:A:C2'	31:DA:2851:A:O5'	2.66	0.44
33:DD:257:LEU:CD2	33:DD:257:LEU:C	2.90	0.44
34:DE:56:PRO:O	34:DE:58:ARG:N	2.50	0.44
34:DE:116:VAL:HG22	34:DE:122:PHE:HB2	1.99	0.44
35:DF:110:LEU:HD21	35:DF:181:LEU:CD2	2.47	0.44
36:DG:64:THR:CG2	36:DG:65:GLY:N	2.79	0.44
39:DN:2:LYS:HZ2	46:DU:94:ASN:HD21	1.64	0.44
39:DN:53:VAL:HA	39:DN:121:LYS:O	2.18	0.44
43:DR:60:LEU:O	43:DR:60:LEU:HG	2.14	0.44
44:DS:66:ALA:O	44:DS:67:ARG:HB2	2.17	0.44
44:DS:81:GLY:O	44:DS:82:ILE:C	2.59	0.44
45:DT:29:ARG:CB	45:DT:85:LYS:CA	2.93	0.44
45:DT:92:GLY:O	45:DT:94:ALA:N	2.51	0.44
48:DW:17:VAL:O	48:DW:18:ARG:C	2.60	0.44
50:DY:7:VAL:HB	50:DY:8:LYS:CD	2.47	0.44
50:DY:28:LYS:CD	50:DY:37:VAL:HG12	2.48	0.44
1:AA:169:C:C5	1:AA:170:U:C5	3.06	0.44
1:AA:328:C:H4'	1:AA:329:A:H5'	1.99	0.44
1:AA:408:A:H5'	4:AD:116:GLN:HB2	1.99	0.44
1:AA:577:G:H1'	1:AA:816:A:C4	2.53	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:594:G:H1	1:AA:645:C:N4	2.13	0.44
1:AA:624:C:O3'	16:AP:10:GLY:HA2	2.18	0.44
1:AA:1091:U:O2	1:AA:1093:A:C8	2.71	0.44
1:AA:1210:C:H4'	1:AA:1214:C:C4	2.53	0.44
1:AA:1350:A:H8	1:AA:1350:A:O5'	2.01	0.44
3:AC:33:LEU:HD23	14:AN:37:PHE:O	2.17	0.44
4:AD:24:GLU:O	4:AD:27:TYR:HB2	2.17	0.44
4:AD:65:ARG:HD2	4:AD:72:GLU:HA	2.00	0.44
4:AD:146:ILE:H	4:AD:146:ILE:CD1	2.30	0.44
6:AF:15:ASP:CG	6:AF:18:GLN:NE2	2.75	0.44
7:AG:87:VAL:HA	7:AG:88:PRO:HD3	1.91	0.44
9:AI:125:TYR:C	9:AI:125:TYR:CD2	2.96	0.44
16:AP:4:ILE:HD12	16:AP:4:ILE:N	2.32	0.44
16:AP:20:VAL:HG22	16:AP:32:TYR:HB2	1.98	0.44
17:AQ:4:LYS:HB3	17:AQ:61:GLU:OE2	2.18	0.44
20:AT:24:LEU:HD13	20:AT:24:LEU:C	2.42	0.44
29:B7:5:TRP:O	29:B7:7:PRO:HD3	2.17	0.44
31:BA:154:G:C2	31:BA:173:G:C2	3.06	0.44
31:BA:869:G:H2'	31:BA:870:A:O4'	2.17	0.44
31:BA:1235:G:C6	31:BA:1236:G:N1	2.86	0.44
31:BA:1480:G:C2	31:BA:1481:U:O2	2.71	0.44
31:BA:1786:A:C1'	31:BA:1938:A:N6	2.80	0.44
31:BA:1902:C:C2'	31:BA:1903:G:O5'	2.65	0.44
31:BA:2082:A:H2'	31:BA:2083:G:O4'	2.17	0.44
31:BA:2388:A:C2'	31:BA:2389:G:H5'	2.47	0.44
31:BA:2863:C:OP1	45:BT:93:ARG:NH1	2.51	0.44
32:BB:81:G:O6	32:BB:96:U:O2	2.36	0.44
35:BF:110:LEU:HD21	35:BF:181:LEU:CD2	2.48	0.44
35:BF:203:GLN:C	35:BF:206:ILE:O	2.60	0.44
36:BG:35:GLU:O	36:BG:35:GLU:HG2	2.17	0.44
36:BG:102:PHE:CE2	36:BG:141:PHE:CE1	3.01	0.44
37:BH:103:LEU:CD2	37:BH:115:VAL:HB	2.46	0.44
38:BI:56:LYS:NZ	38:BI:56:LYS:C	2.75	0.44
38:BI:88:ILE:CG2	38:BI:89:TYR:N	2.80	0.44
41:BP:17:LYS:HB2	41:BP:17:LYS:NZ	2.32	0.44
41:BP:18:ARG:HE	41:BP:18:ARG:HB3	1.72	0.44
41:BP:30:THR:O	41:BP:33:ARG:N	2.41	0.44
42:BQ:37:LEU:HD12	42:BQ:129:THR:C	2.43	0.44
42:BQ:141:GLN:HB3	51:BZ:70:LEU:HD13	1.99	0.44
43:BR:75:LEU:HD13	43:BR:75:LEU:O	2.17	0.44
43:BR:116:LEU:HD23	43:BR:116:LEU:HA	1.67	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BU:29:SER:O	46:BU:30:LYS:HD3	2.18	0.44
48:BW:9:TYR:N	48:BW:102:HIS:CD2	2.79	0.44
49:BX:53:LYS:H	49:BX:80:ILE:HG22	1.83	0.44
50:BY:77:PRO:O	50:BY:78:ALA:CB	2.66	0.44
50:BY:97:ARG:O	50:BY:98:VAL:C	2.60	0.44
51:BZ:135:GLU:O	51:BZ:136:PHE:HB3	2.18	0.44
51:BZ:166:SER:CB	51:BZ:167:PRO:HA	2.48	0.44
1:CA:541:G:H2'	1:CA:542:G:C8	2.51	0.44
1:CA:577:G:C4	1:CA:578:C:C5	3.05	0.44
1:CA:625:G:H4'	16:CP:16:HIS:CD2	2.52	0.44
1:CA:674:G:H2'	1:CA:675:A:C8	2.49	0.44
1:CA:763:G:N3	1:CA:764:C:C6	2.86	0.44
1:CA:774:G:C2'	1:CA:775:G:H5'	2.47	0.44
1:CA:980:C:O2	14:CN:19:ARG:HA	2.17	0.44
1:CA:1465:C:H2'	1:CA:1466:C:O4'	2.17	0.44
2:CB:97:TRP:CH2	2:CB:176:GLU:HG3	2.53	0.44
2:CB:98:LEU:CB	2:CB:101:MET:HE3	2.43	0.44
5:CE:101:ILE:HD13	5:CE:101:ILE:H	1.82	0.44
6:CF:62:TRP:C	6:CF:63:TYR:CD2	2.95	0.44
7:CG:113:GLU:HB3	7:CG:118:VAL:HG23	1.99	0.44
8:CH:39:LEU:HB3	8:CH:45:ILE:HG12	2.00	0.44
10:CJ:44:VAL:HG12	10:CJ:45:ARG:N	2.33	0.44
13:CM:60:VAL:HG12	13:CM:66:LEU:HD21	2.00	0.44
13:CM:68:GLY:O	13:CM:69:GLU:HB2	2.18	0.44
15:CO:17:ARG:CG	15:CO:17:ARG:NH1	2.60	0.44
17:CQ:90:ILE:O	17:CQ:91:ARG:C	2.61	0.44
23:D1:51:VAL:CG2	23:D1:67:ILE:HG23	2.47	0.44
23:D1:67:ILE:CD1	23:D1:67:ILE:H	2.30	0.44
27:D5:43:HIS:HD2	31:DA:2815:C:O2'	2.01	0.44
31:DA:142:A:C5'	31:DA:142(A):C:OP2	2.61	0.44
31:DA:336:C:H2'	31:DA:337:C:C6	2.52	0.44
31:DA:374:A:C2'	31:DA:375:C:H5'	2.48	0.44
31:DA:638:G:H2'	31:DA:639:U:C6	2.53	0.44
31:DA:1109:C:H5	31:DA:1110:G:N7	2.16	0.44
31:DA:1288:U:C2	31:DA:1327:C:C2	3.06	0.44
31:DA:1368:G:C2	31:DA:1369:G:C8	3.06	0.44
31:DA:1517:G:O2'	31:DA:1518:U:H5'	2.18	0.44
31:DA:1799:G:H5'	31:DA:1819:A:N6	2.33	0.44
31:DA:2305:A:H2'	31:DA:2306:C:O4'	2.16	0.44
31:DA:2315:G:C6	31:DA:2316:C:N4	2.86	0.44
34:DE:28:ALA:HB3	34:DE:93:VAL:CG2	2.48	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DE:111:ARG:HB2	34:DE:160:TYR:O	2.18	0.44
34:DE:170:LEU:N	34:DE:170:LEU:CD1	2.81	0.44
35:DF:6:VAL:O	35:DF:124:LEU:CD1	2.66	0.44
35:DF:53:THR:HG22	35:DF:56:GLU:H	1.82	0.44
36:DG:51:ARG:HD3	36:DG:53:LEU:HD21	2.00	0.44
36:DG:63:ILE:O	36:DG:63:ILE:HD12	2.16	0.44
38:DI:69:LYS:HG2	38:DI:69:LYS:O	2.17	0.44
39:DN:28:THR:CG2	39:DN:29:LYS:N	2.80	0.44
39:DN:66:LYS:HB3	39:DN:70:LYS:HB3	1.99	0.44
41:DP:80:TYR:CE1	41:DP:111:ARG:HB3	2.53	0.44
42:DQ:83:MET:HB2	42:DQ:83:MET:HE2	1.83	0.44
44:DS:17:ARG:O	44:DS:18:ILE:HB	2.17	0.44
44:DS:96:GLY:O	44:DS:97:ARG:C	2.61	0.44
45:DT:32:TYR:HD2	45:DT:81:PRO:O	2.01	0.44
46:DU:60:LEU:O	46:DU:61:TRP:C	2.60	0.44
47:DV:12:TYR:CD2	47:DV:12:TYR:N	2.85	0.44
50:DY:75:ILE:CD1	50:DY:76:CYS:N	2.73	0.44
1:AA:12:U:H4'	1:AA:526:C:O2'	2.17	0.44
1:AA:27:G:O2'	1:AA:28:G:H5'	2.17	0.44
1:AA:150:C:N4	1:AA:170:U:C4	2.86	0.44
1:AA:355:C:H5'	1:AA:389:A:OP2	2.18	0.44
1:AA:397:A:N7	1:AA:548:G:C8	2.86	0.44
1:AA:557:G:H2'	1:AA:558:G:C8	2.53	0.44
1:AA:788:U:H2'	1:AA:789:U:O4'	2.18	0.44
1:AA:1011:G:N2	1:AA:1019:C:C2	2.86	0.44
1:AA:1054:C:C2'	1:AA:1055:A:H5"	2.48	0.44
1:AA:1218:C:H2'	1:AA:1219:U:C5	2.53	0.44
1:AA:1240:U:P	7:AG:116:ALA:HB2	2.58	0.44
1:AA:1347:G:C6	9:AI:107:ARG:NH2	2.86	0.44
2:AB:124:SER:O	2:AB:127:ILE:HG12	2.18	0.44
2:AB:132:LYS:O	2:AB:136:VAL:HG23	2.18	0.44
4:AD:141:ARG:HB3	4:AD:142:PRO:HD2	2.00	0.44
6:AF:62:TRP:C	6:AF:63:TYR:CD2	2.95	0.44
7:AG:94:ARG:H	7:AG:94:ARG:HG3	1.61	0.44
10:AJ:54:PHE:CZ	10:AJ:55:LYS:HD2	2.52	0.44
16:AP:23:ASP:C	16:AP:25:ARG:H	2.25	0.44
19:AS:69:HIS:CB	19:AS:74:PHE:HE2	2.30	0.44
23:B1:26:ARG:CB	23:B1:34:THR:HB	2.48	0.44
23:B1:48:LYS:HA	23:B1:48:LYS:CE	2.41	0.44
23:B1:56:GLN:HG3	23:B1:57:GLU:HG2	1.99	0.44
31:BA:286:C:N4	31:BA:355:G:H1	2.16	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:303:U:H2'	31:BA:304:G:C8	2.53	0.44
31:BA:412:A:N7	31:BA:2411:A:H2	2.15	0.44
31:BA:672:C:O2'	31:BA:673:C:H5'	2.18	0.44
31:BA:893:C:C2'	31:BA:894:C:O5'	2.65	0.44
31:BA:1109:C:H5	31:BA:1110:G:N7	2.14	0.44
31:BA:1450(A):C:O5'	31:BA:1450(A):C:H6	2.01	0.44
31:BA:1467:C:OP1	31:BA:1467:C:H4'	2.18	0.44
31:BA:1695:G:H2'	31:BA:1696:G:C4'	2.47	0.44
31:BA:1843:C:H2'	31:BA:1844:C:H6	1.82	0.44
31:BA:2012:G:O3'	48:BW:96:ILE:HG12	2.18	0.44
31:BA:2305:A:H2'	31:BA:2306:C:O4'	2.18	0.44
32:BB:50:G:H8	32:BB:50:G:O5'	2.01	0.44
33:BD:197:GLY:O	33:BD:198:ASN:CB	2.65	0.44
35:BF:70:THR:HB	35:BF:72:ARG:H	1.82	0.44
39:BN:3:THR:CA	39:BN:4:TYR:CD1	3.00	0.44
39:BN:7:LYS:O	39:BN:8:GLN:C	2.59	0.44
43:BR:56:LYS:CD	43:BR:88:ARG:H	2.29	0.44
43:BR:58:GLY:O	43:BR:59:ASP:C	2.61	0.44
45:BT:28:VAL:HG21	45:BT:46:GLU:CG	2.42	0.44
46:BU:60:LEU:HD23	46:BU:60:LEU:HA	1.73	0.44
47:BV:15:GLU:OE2	47:BV:16:PRO:HD2	2.18	0.44
47:BV:90:PRO:CD	47:BV:91:TYR:H	2.31	0.44
50:BY:28:LYS:HD2	50:BY:37:VAL:CG1	2.48	0.44
50:BY:66:PRO:O	50:BY:67:LEU:HB3	2.18	0.44
50:BY:75:ILE:CD1	50:BY:76:CYS:N	2.71	0.44
51:BZ:19:ARG:H	51:BZ:19:ARG:HG3	1.53	0.44
51:BZ:22:GLY:O	51:BZ:41:LEU:HB2	2.18	0.44
1:CA:55:A:C4	1:CA:56:U:C5	3.06	0.44
1:CA:426:G:OP1	4:CD:38:TYR:OH	2.36	0.44
1:CA:713:G:H2'	1:CA:714:G:C8	2.53	0.44
1:CA:1006:C:H42	1:CA:1024:G:H21	1.65	0.44
1:CA:1319:A:N6	1:CA:1361:G:H21	2.16	0.44
1:CA:1401:G:H2'	1:CA:1402:C:O4'	2.18	0.44
1:CA:1452:C:H5'	1:CA:1456:G:N9	2.30	0.44
2:CB:91:PRO:HG3	2:CB:154:LEU:HB2	2.00	0.44
8:CH:120:THR:HG23	8:CH:123:GLU:CD	2.42	0.44
11:CK:85:ARG:HG2	11:CK:112:THR:HA	1.99	0.44
15:CO:81:LEU:HD11	15:CO:85:LEU:CD1	2.47	0.44
18:CR:44:LEU:HA	18:CR:49:LYS:O	2.18	0.44
21:CU:12:LYS:HB3	21:CU:22:ARG:HD2	1.99	0.44
22:D0:73:GLY:C	22:D0:75:LEU:N	2.74	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D4:12:ALA:O	36:DG:101:ILE:HD11	2.18	0.44
29:D7:5:TRP:CZ3	31:DA:464:U:H4'	2.52	0.44
29:D7:39:ARG:NH1	31:DA:469:G:C6	2.85	0.44
30:D8:4:MET:HB2	31:DA:592:G:O2'	2.17	0.44
30:D8:31:HIS:HB3	31:DA:2420:C:H41	1.83	0.44
31:DA:342:G:O2'	31:DA:343:C:H5'	2.18	0.44
31:DA:596:G:C6	31:DA:597:U:C4	3.06	0.44
31:DA:665:C:H2'	31:DA:666:G:H8	1.83	0.44
31:DA:675:A:C6	31:DA:676:A:C6	3.05	0.44
31:DA:676:A:H2	31:DA:802:A:N6	2.09	0.44
31:DA:769:G:H2'	31:DA:770:G:H5'	1.98	0.44
31:DA:855:G:C6	31:DA:856:C:N4	2.85	0.44
31:DA:864:G:C6	31:DA:865:C:C4	3.05	0.44
31:DA:869:G:C4	31:DA:870:A:C8	3.06	0.44
31:DA:936:C:H2'	31:DA:937:U:C6	2.53	0.44
31:DA:1313:U:H3'	31:DA:1314:C:H5'	2.00	0.44
31:DA:1509(B):A:O2'	31:DA:1510:G:H5'	2.17	0.44
31:DA:1603:A:H2'	31:DA:1604:C:O4'	2.18	0.44
31:DA:2811:G:OP1	34:DE:60:ASN:CB	2.66	0.44
31:DA:2839:G:H5'	43:DR:46:GLY:CA	2.47	0.44
34:DE:49:LEU:N	34:DE:49:LEU:HD22	2.33	0.44
34:DE:73:GLU:CG	34:DE:74:PRO:HD2	2.42	0.44
40:DO:11:ALA:HB1	40:DO:99:PHE:O	2.17	0.44
41:DP:131:SER:O	41:DP:132:LYS:C	2.58	0.44
42:DQ:46:GLN:HE22	42:DQ:126:PRO:HG3	1.83	0.44
43:DR:87:TYR:CE1	43:DR:117:VAL:HG12	2.43	0.44
47:DV:69:LYS:CB	47:DV:93:GLU:OE2	2.60	0.44
51:DZ:73:GLN:HG2	51:DZ:87:ASP:CG	2.40	0.44
51:DZ:151:HIS:HB2	51:DZ:152:ALA:H	1.52	0.44
1:AA:90:U:H6	1:AA:90:U:H3'	1.83	0.44
1:AA:273:A:O2'	1:AA:274:A:H5'	2.18	0.44
1:AA:448:A:N7	1:AA:486:U:O4	2.51	0.44
1:AA:491:G:H2'	1:AA:492:G:O4'	2.18	0.44
1:AA:604:G:C5	1:AA:605:U:C5	3.06	0.44
1:AA:676:A:H2'	1:AA:677:U:C6	2.53	0.44
1:AA:694:A:C2'	1:AA:695:A:O5'	2.66	0.44
1:AA:1054:C:OP1	1:AA:1197:G:OP2	2.35	0.44
1:AA:1079:G:H2'	1:AA:1080:A:C8	2.53	0.44
1:AA:1159:U:C5	1:AA:1182:G:C4	3.06	0.44
2:AB:105:PHE:O	2:AB:106:LYS:C	2.61	0.44
2:AB:105:PHE:C	2:AB:107:THR:N	2.76	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:79:PHE:CD1	4:AD:207:TYR:CD1	3.06	0.44
6:AF:63:TYR:O	6:AF:65:VAL:HG13	2.17	0.44
7:AG:27:ILE:HD11	7:AG:43:PHE:CG	2.53	0.44
7:AG:111:ARG:HB3	7:AG:113:GLU:HG2	2.00	0.44
7:AG:111:ARG:CZ	7:AG:122:HIS:HB3	2.47	0.44
8:AH:90:GLY:O	8:AH:91:ARG:HB2	2.18	0.44
10:AJ:38:ILE:HG12	10:AJ:71:LEU:O	2.17	0.44
10:AJ:62:HIS:O	10:AJ:62:HIS:HD2	2.00	0.44
15:AO:64:ARG:HH11	15:AO:64:ARG:HG3	1.83	0.44
22:B0:55:ARG:HG3	31:BA:2365:G:OP1	2.18	0.44
24:B2:25:VAL:HG22	24:B2:26:ARG:NH1	2.31	0.44
24:B2:34:GLU:O	24:B2:36:ARG:HB2	2.17	0.44
29:B7:43:THR:O	29:B7:44:PRO:C	2.61	0.44
30:B8:26:LYS:HB2	30:B8:44:LYS:HG3	1.99	0.44
31:BA:9:U:O4	31:BA:2629:A:C6	2.71	0.44
31:BA:26:G:C6	31:BA:27:G:C6	3.06	0.44
31:BA:142:A:H8	31:BA:1595:G:N2	2.07	0.44
31:BA:356:G:O2'	31:BA:357:A:H5'	2.18	0.44
31:BA:484:C:C2	31:BA:485:C:C5	3.06	0.44
31:BA:732:C:O2'	31:BA:733:G:H5'	2.18	0.44
31:BA:778:G:C5	31:BA:779:U:C4	3.06	0.44
31:BA:900:A:C5'	31:BA:901:A:OP2	2.66	0.44
31:BA:1115:G:H2'	31:BA:1116:C:O4'	2.17	0.44
31:BA:1850:G:C6	31:BA:1851:U:C4	3.06	0.44
31:BA:2464:C:O2'	31:BA:2465:C:H6	2.01	0.44
31:BA:2722:G:O2'	43:BR:5:LYS:HB2	2.17	0.44
31:BA:2831:G:O2'	31:BA:2883:A:H2'	2.18	0.44
32:BB:10:C:C2'	32:BB:11:C:H5'	2.48	0.44
33:BD:15:PHE:O	33:BD:205:VAL:HG11	2.18	0.44
33:BD:244:ARG:CG	33:BD:245:PRO:HD3	2.44	0.44
34:BE:95:ILE:CD1	34:BE:95:ILE:N	2.80	0.44
35:BF:116:ASP:O	35:BF:117:ARG:C	2.60	0.44
36:BG:125:PHE:CB	36:BG:166:ASP:HB2	2.48	0.44
39:BN:45:ASN:ND2	39:BN:45:ASN:N	2.59	0.44
41:BP:146:VAL:HG13	41:BP:147:LEU:N	2.32	0.44
42:BQ:133:ARG:O	42:BQ:134:ARG:CB	2.66	0.44
43:BR:9:LYS:O	43:BR:10:LEU:CD2	2.66	0.44
43:BR:65:LEU:HD12	43:BR:65:LEU:HA	1.71	0.44
45:BT:51:ARG:HD3	45:BT:62:THR:HG23	2.00	0.44
48:BW:27:LYS:O	48:BW:71:VAL:HG23	2.18	0.44
48:BW:83:LYS:HD2	48:BW:95:ILE:HD12	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BZ:28:MET:HG3	51:BZ:35:ARG:HB2	1.99	0.44
51:BZ:98:MET:HE2	51:BZ:100:VAL:HG23	2.00	0.44
51:BZ:111:VAL:HG13	51:BZ:112:ARG:N	2.32	0.44
1:CA:20:U:H4'	1:CA:572:A:C6	2.53	0.44
1:CA:27:G:O2'	1:CA:28:G:H5'	2.18	0.44
1:CA:127:G:C2	1:CA:128:G:C8	3.06	0.44
1:CA:376:G:C4	1:CA:389:A:C2	3.05	0.44
1:CA:509:A:C2'	1:CA:510:A:C8	2.87	0.44
1:CA:590:C:C2	1:CA:591:U:C5	3.05	0.44
1:CA:778:G:C2'	1:CA:779:C:O5'	2.66	0.44
1:CA:1097:C:O2	1:CA:1169:A:H2	2.01	0.44
1:CA:1306:A:H1'	1:CA:1332:A:C2	2.53	0.44
1:CA:1399:C:H4'	1:CA:1400:C:H5"	2.00	0.44
3:CC:33:LEU:HD23	14:CN:37:PHE:O	2.17	0.44
6:CF:62:TRP:CE2	18:CR:35:ARG:NH2	2.86	0.44
15:CO:61:GLY:O	15:CO:64:ARG:HB3	2.18	0.44
19:CS:15:LEU:HD21	19:CS:35:SER:HB3	2.00	0.44
22:D0:45:PHE:CE2	22:D0:69:PHE:HE2	2.36	0.44
22:D0:53:MET:HB2	22:D0:59:LEU:HD23	2.00	0.44
23:D1:16:ASN:HB3	23:D1:46:LEU:HD11	2.00	0.44
23:D1:87:PRO:CB	23:D1:91:LYS:NZ	2.76	0.44
28:D6:44:ARG:O	28:D6:45:LYS:CG	2.57	0.44
29:D7:5:TRP:O	31:DA:1612:C:H4'	2.18	0.44
31:DA:7:G:C2'	31:DA:8:A:O4'	2.65	0.44
31:DA:58:G:O2'	31:DA:73:A:N1	2.48	0.44
31:DA:357:A:C2	31:DA:358:U:N3	2.86	0.44
31:DA:389:G:N1	41:DP:71:VAL:HG12	2.33	0.44
31:DA:442:G:C6	31:DA:444:C:N4	2.86	0.44
31:DA:706:A:H2'	31:DA:707:G:O4'	2.18	0.44
31:DA:740:U:H2'	31:DA:741:G:H8	1.80	0.44
31:DA:1010:A:N3	31:DA:1153:C:H1'	2.33	0.44
31:DA:1049:C:O2	31:DA:1050:A:C8	2.71	0.44
31:DA:1151:G:H5"	46:DU:81:HIS:CE1	2.53	0.44
31:DA:1448:G:N3	31:DA:1528(A):A:H2	2.14	0.44
31:DA:1833:U:O2	31:DA:1969:A:H2	2.01	0.44
31:DA:1901:A:N3	31:DA:1901:A:H2'	2.33	0.44
31:DA:2070:G:C2	31:DA:2442:C:C2	3.06	0.44
31:DA:2300:G:N2	31:DA:2317:C:C2	2.85	0.44
31:DA:2580:U:H5"	34:DE:131:ALA:CB	2.47	0.44
31:DA:2584:U:C6	31:DA:2585:U:C6	3.05	0.44
31:DA:2733:A:H2'	31:DA:2734:A:O4'	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2859:G:H2'	31:DA:2860:A:C8	2.53	0.44
32:DB:21:G:C5	32:DB:63:G:C2	3.06	0.44
34:DE:52:LEU:O	34:DE:74:PRO:HA	2.17	0.44
35:DF:23:ASP:O	35:DF:24:LEU:HD22	2.18	0.44
36:DG:11:TYR:HA	36:DG:15:VAL:HB	1.99	0.44
36:DG:120:LEU:HB2	36:DG:179:PRO:O	2.18	0.44
39:DN:17:ASP:OD2	39:DN:56:ASN:HB2	2.18	0.44
39:DN:31:ALA:O	39:DN:34:LEU:N	2.51	0.44
43:DR:21:TYR:CE2	43:DR:43:GLU:HG2	2.53	0.44
46:DU:92:ARG:HD2	47:DV:11:GLN:HG3	1.94	0.44
51:DZ:104:PHE:HA	51:DZ:139:VAL:HB	2.00	0.44
1:AA:11:G:C6	1:AA:12:U:C4	3.06	0.43
1:AA:117:G:O2'	1:AA:118:U:H5'	2.18	0.43
1:AA:243:A:C2	1:AA:246:A:C8	3.06	0.43
1:AA:612:C:O2	1:AA:629:G:N2	2.51	0.43
1:AA:665:A:C5	1:AA:733:A:C5	3.05	0.43
1:AA:718:G:H5'	11:AK:117:ASN:HB2	2.00	0.43
1:AA:854:G:OP2	1:AA:871:U:C5	2.71	0.43
1:AA:991:U:O2'	1:AA:992:U:P	2.76	0.43
1:AA:1113:C:H6	1:AA:1113:C:O5'	2.01	0.43
2:AB:61:LEU:CA	2:AB:64:ARG:HG2	2.45	0.43
4:AD:59:ARG:O	4:AD:60:GLU:C	2.61	0.43
10:AJ:58:ASP:O	10:AJ:60:ARG:N	2.52	0.43
11:AK:85:ARG:HG2	11:AK:112:THR:HA	1.98	0.43
13:AM:84:ILE:CG1	19:AS:66:MET:HE1	2.43	0.43
13:AM:90:LEU:C	13:AM:92:HIS:H	2.26	0.43
15:AO:20:GLY:O	15:AO:21:ASP:HB3	2.18	0.43
18:AR:61:LYS:O	18:AR:65:ILE:HG13	2.18	0.43
20:AT:46:GLU:CG	20:AT:48:LYS:HE2	2.48	0.43
22:B0:2:ALA:H	31:BA:2602:A:N6	2.16	0.43
22:B0:77:ARG:NH2	31:BA:857:C:H5'	2.33	0.43
24:B2:44:LEU:O	24:B2:47:ASN:ND2	2.51	0.43
27:B5:2:ALA:HA	31:BA:2015:A:C1'	2.40	0.43
31:BA:9:U:N3	31:BA:2629:A:N6	2.66	0.43
31:BA:455:C:N3	31:BA:472:A:H2'	2.32	0.43
31:BA:777:A:C2	31:BA:778:G:C8	3.06	0.43
31:BA:993:G:OP1	47:BV:75:PHE:CE2	2.71	0.43
31:BA:1006:C:H1'	39:BN:106:MET:HB3	2.00	0.43
31:BA:1399:C:O2'	31:BA:1400:G:H5'	2.18	0.43
31:BA:1495:A:C4	31:BA:1496:A:C2	3.06	0.43
31:BA:1504:C:O2'	31:BA:1505:C:C5'	2.65	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1669:A:C8	40:BO:5:GLN:HG3	2.53	0.43
31:BA:2065:C:H2'	31:BA:2066:C:H6	1.82	0.43
31:BA:2070:G:H2'	31:BA:2071:A:O4'	2.18	0.43
31:BA:2086:U:H2'	31:BA:2087:G:C8	2.53	0.43
31:BA:2100:G:O6	31:BA:2189:U:O4	2.36	0.43
31:BA:2376:A:O2'	44:BS:108:GLY:HA2	2.17	0.43
31:BA:2476:A:C6	31:BA:2477:C:C6	3.04	0.43
32:BB:6:C:H2'	32:BB:7:G:O4'	2.18	0.43
33:BD:44:ASN:HB2	33:BD:48:ARG:C	2.43	0.43
34:BE:21:VAL:HG23	34:BE:23:VAL:HG13	2.00	0.43
34:BE:111:ARG:HH12	43:BR:2:ARG:HH21	1.64	0.43
36:BG:143:GLU:H	36:BG:143:GLU:HG2	1.53	0.43
38:BI:68:LEU:O	38:BI:71:ILE:HG12	2.19	0.43
39:BN:2:LYS:HZ2	46:BU:94:ASN:HD21	1.66	0.43
40:BO:63:VAL:HG23	40:BO:64:ARG:HB2	1.99	0.43
41:BP:39:LYS:HD3	41:BP:39:LYS:HA	1.85	0.43
41:BP:112:LEU:HD23	41:BP:113:LYS:N	2.33	0.43
42:BQ:141:GLN:C	51:BZ:70:LEU:HD13	2.42	0.43
44:BS:26:LEU:HD12	44:BS:39:ILE:HD11	1.99	0.43
44:BS:30:ARG:HD2	44:BS:31:SER:O	2.17	0.43
44:BS:97:ARG:O	44:BS:98:VAL:HG23	2.18	0.43
46:BU:50:ARG:HG2	46:BU:53:ARG:NH2	2.33	0.43
46:BU:66:ASN:HD21	46:BU:70:ARG:HH21	1.66	0.43
48:BW:26:GLY:H	48:BW:71:VAL:HB	1.82	0.43
1:CA:39:G:C6	1:CA:40:C:C5	3.06	0.43
1:CA:319:G:C2	1:CA:320:C:C2	3.06	0.43
1:CA:328:C:H4'	1:CA:329:A:H5'	2.00	0.43
1:CA:409:G:C2'	1:CA:410:G:C5'	2.95	0.43
1:CA:542:G:OP1	4:CD:10:ARG:NH2	2.49	0.43
1:CA:834:C:H2'	1:CA:835:U:C6	2.53	0.43
1:CA:853:G:C4	1:CA:854:G:C8	3.06	0.43
1:CA:961:U:OP2	1:CA:1223:C:H4'	2.18	0.43
1:CA:1063:C:C5	1:CA:1064:G:C4	3.05	0.43
1:CA:1308:U:H2'	1:CA:1309:G:C8	2.53	0.43
4:CD:141:ARG:HB3	4:CD:142:PRO:HD2	2.00	0.43
5:CE:146:ALA:O	5:CE:148:VAL:N	2.51	0.43
6:CF:15:ASP:O	6:CF:19:LEU:HB3	2.18	0.43
6:CF:15:ASP:CG	6:CF:18:GLN:NE2	2.76	0.43
8:CH:23:SER:HA	8:CH:63:LEU:CD2	2.48	0.43
13:CM:69:GLU:HB3	13:CM:72:ALA:HB3	2.00	0.43
18:CR:73:ALA:CB	18:CR:79:LEU:HD12	2.48	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:95:ALA:O	20:CT:96:GLY:C	2.61	0.43
29:D7:5:TRP:O	29:D7:7:PRO:HD3	2.17	0.43
31:DA:146:G:C8	31:DA:146:G:C5'	2.98	0.43
31:DA:173:G:C5	31:DA:174:C:C5	3.06	0.43
31:DA:212:G:O2'	31:DA:213:A:H5'	2.18	0.43
31:DA:271(S):G:C5	31:DA:271(T):C:C5	3.05	0.43
31:DA:389:G:H1	41:DP:71:VAL:H	1.64	0.43
31:DA:444:C:H4'	35:DF:49:ALA:HB2	2.00	0.43
31:DA:542:C:C5'	31:DA:542:C:C6	3.01	0.43
31:DA:690:G:H2'	31:DA:691:C:C6	2.53	0.43
31:DA:765:G:C2	31:DA:766:C:C2	3.06	0.43
31:DA:881:G:N2	31:DA:896:A:H62	2.16	0.43
31:DA:1294:U:O2'	43:DR:23:ASN:ND2	2.50	0.43
31:DA:1488:G:C6	31:DA:1489:U:C2	3.06	0.43
31:DA:1699:G:H4'	31:DA:1700:A:OP2	2.18	0.43
31:DA:1836:C:O2'	31:DA:1837:C:H5'	2.18	0.43
31:DA:2070:G:H2'	31:DA:2071:A:O4'	2.18	0.43
31:DA:2274:A:C6	31:DA:2276:G:C8	3.06	0.43
31:DA:2315:G:H2'	31:DA:2316:C:H6	1.79	0.43
31:DA:2419:U:H2'	31:DA:2420:C:C6	2.53	0.43
32:DB:73:A:H5'	32:DB:74:U:OP2	2.18	0.43
33:DD:134:ARG:HG2	33:DD:134:ARG:NH1	2.32	0.43
33:DD:197:GLY:O	33:DD:198:ASN:CB	2.66	0.43
33:DD:248:SER:C	33:DD:250:TRP:N	2.74	0.43
35:DF:70:THR:HB	35:DF:72:ARG:H	1.83	0.43
37:DH:13:LYS:O	37:DH:15:VAL:N	2.51	0.43
37:DH:87:LEU:N	37:DH:131:VAL:O	2.36	0.43
37:DH:158:HIS:NE2	37:DH:169:VAL:O	2.51	0.43
39:DN:34:LEU:HD21	39:DN:120:LEU:HD23	1.99	0.43
39:DN:36:GLY:N	39:DN:42:TRP:CZ3	2.86	0.43
43:DR:84:ALA:HB3	43:DR:85:PRO:HD3	1.98	0.43
44:DS:87:PHE:CG	44:DS:88:ASP:N	2.86	0.43
44:DS:105:ALA:C	44:DS:107:GLU:N	2.76	0.43
45:DT:28:VAL:CG2	45:DT:88:ILE:HG13	2.48	0.43
45:DT:50:ILE:HD11	45:DT:102:ILE:HD11	1.99	0.43
45:DT:53:ARG:HH11	45:DT:53:ARG:CG	2.31	0.43
46:DU:50:ARG:CZ	47:DV:75:PHE:CD2	3.00	0.43
46:DU:112:ARG:O	46:DU:115:ALA:HB3	2.18	0.43
47:DV:50:PRO:O	47:DV:51:VAL:HB	2.17	0.43
49:DX:59:VAL:HG23	49:DX:60:ARG:N	2.30	0.43
1:AA:509:A:O2'	1:AA:510:A:C5'	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:513:C:O2	1:AA:513:C:H2'	2.18	0.43
1:AA:518:C:O2'	1:AA:530:G:N2	2.52	0.43
1:AA:658:G:C1'	15:AO:22:THR:HB	2.48	0.43
1:AA:731:G:H5'	1:AA:766:A:H4'	2.01	0.43
1:AA:735:C:H5'	18:AR:71:LYS:HD3	2.00	0.43
1:AA:1047:G:C2'	1:AA:1048:G:H5'	2.48	0.43
1:AA:1063:C:C5	1:AA:1064:G:C4	3.06	0.43
1:AA:1281:U:H5'	1:AA:1282:C:H5	1.83	0.43
1:AA:1285:A:C4'	1:AA:1286:A:O5'	2.67	0.43
2:AB:144:ARG:HG3	2:AB:145:LEU:N	2.33	0.43
2:AB:178:ARG:HG3	8:AH:72:PRO:HA	2.00	0.43
4:AD:16:GLY:O	4:AD:17:VAL:C	2.60	0.43
4:AD:31:CYS:C	4:AD:33:MET:N	2.59	0.43
5:AE:139:LEU:O	5:AE:140:ARG:C	2.60	0.43
6:AF:24:GLU:O	6:AF:28:ARG:HD2	2.18	0.43
8:AH:11:THR:HA	8:AH:14:ARG:NH1	2.34	0.43
8:AH:39:LEU:HB3	8:AH:45:ILE:HG12	2.00	0.43
10:AJ:5:ARG:O	10:AJ:98:ILE:HA	2.18	0.43
17:AQ:74:LEU:C	17:AQ:74:LEU:HD13	2.43	0.43
18:AR:66:LEU:CD1	18:AR:70:ILE:HD11	2.46	0.43
22:B0:27:GLU:HG3	22:B0:68:GLU:HA	1.99	0.43
25:B3:1:MET:O	25:B3:3:ARG:HG3	2.17	0.43
27:B5:6:VAL:HG13	27:B5:7:PRO:HD2	2.00	0.43
27:B5:55:ARG:C	27:B5:56:LYS:HG3	2.42	0.43
28:B6:12:GLU:CA	28:B6:23:THR:HA	2.47	0.43
30:B8:4:MET:HB2	31:BA:592:G:O2'	2.18	0.43
30:B8:5:LYS:HE2	31:BA:254:G:N7	2.32	0.43
31:BA:67:U:O2'	31:BA:68:G:H5'	2.18	0.43
31:BA:374:A:C2'	31:BA:375:C:H5'	2.47	0.43
31:BA:559:G:H22	46:BU:49:HIS:CD2	2.36	0.43
31:BA:587:C:H5	41:BP:33:ARG:HH11	1.65	0.43
31:BA:1489:U:H2'	31:BA:1490:A:OP2	2.17	0.43
31:BA:1721:G:N2	31:BA:1739:U:OP2	2.52	0.43
31:BA:1796:U:H4'	33:BD:256:GLY:N	2.33	0.43
31:BA:1866:C:O2	31:BA:1876:A:H1'	2.18	0.43
31:BA:2023:G:H4'	31:BA:2617:C:O3'	2.17	0.43
31:BA:2312:U:O3'	36:BG:71:THR:HG21	2.18	0.43
33:BD:35:LYS:NZ	33:BD:64:ILE:C	2.76	0.43
33:BD:58:HIS:CD2	33:BD:59:LYS:N	2.86	0.43
33:BD:145:VAL:HG12	33:BD:146:GLU:O	2.17	0.43
34:BE:2:LYS:O	34:BE:199:ARG:HA	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BE:4:ILE:HD13	34:BE:28:ALA:HB1	1.99	0.43
34:BE:197:ILE:HD11	34:BE:199:ARG:HH21	1.79	0.43
35:BF:27:GLU:O	35:BF:112:MET:HE2	2.18	0.43
36:BG:73:ALA:HB3	36:BG:85:GLY:O	2.18	0.43
40:BO:9:GLU:O	40:BO:83:ALA:HA	2.17	0.43
43:BR:56:LYS:HE3	43:BR:94:TYR:CZ	2.52	0.43
44:BS:13:ARG:HB2	44:BS:14:VAL:H	1.63	0.43
49:BX:67:GLY:C	49:BX:68:ARG:HG2	2.44	0.43
50:BY:20:TYR:N	50:BY:20:TYR:CD1	2.85	0.43
1:CA:321:A:N7	1:CA:328:C:O2'	2.37	0.43
1:CA:369:C:N3	1:CA:370:C:C5	2.86	0.43
1:CA:544:G:C4	1:CA:545:C:C5	3.05	0.43
1:CA:862:C:O2'	1:CA:863:U:H5'	2.18	0.43
3:CC:15:THR:HG22	3:CC:16:ARG:HH12	1.83	0.43
3:CC:43:LEU:O	3:CC:47:LEU:HD23	2.17	0.43
6:CF:33:TYR:O	6:CF:34:GLY:C	2.60	0.43
7:CG:26:PHE:CD1	7:CG:62:PHE:HE1	2.35	0.43
11:CK:83:ILE:HA	11:CK:109:VAL:O	2.18	0.43
16:CP:55:ARG:O	16:CP:58:TYR:N	2.51	0.43
23:D1:64:ALA:HA	23:D1:67:ILE:HG13	1.98	0.43
25:D3:13:ILE:HD12	31:DA:989:G:N7	2.33	0.43
26:D4:28:LYS:CB	36:DG:113:ARG:HH22	2.30	0.43
27:D5:48:GLU:C	27:D5:50:GLY:N	2.77	0.43
28:D6:25:LYS:O	31:DA:2286:A:C2	2.65	0.43
31:DA:90:U:O2'	31:DA:92:A:C5'	2.66	0.43
31:DA:128:C:H4'	31:DA:129:C:OP1	2.18	0.43
31:DA:338:G:H2'	31:DA:339:U:H6	1.83	0.43
31:DA:452:G:N3	31:DA:457:A:H2	2.16	0.43
31:DA:475:U:C5	31:DA:481:G:O6	2.71	0.43
31:DA:526:A:N3	31:DA:2044:C:H1'	2.33	0.43
31:DA:527:C:O4'	31:DA:527:C:O2	2.35	0.43
31:DA:855:G:C6	31:DA:856:C:C4	3.06	0.43
31:DA:910:A:C6	42:DQ:13:GLN:HG3	2.52	0.43
31:DA:996:A:H4'	46:DU:92:ARG:CD	2.45	0.43
31:DA:1021:A:C8	31:DA:1021:A:C3'	2.95	0.43
31:DA:1485:G:H1'	31:DA:1505:C:N4	2.34	0.43
31:DA:1509(A):A:C5	31:DA:1509(B):A:N7	2.86	0.43
31:DA:1531:C:H5'	31:DA:1532:C:OP2	2.18	0.43
31:DA:1636:C:H2'	31:DA:1637:A:C8	2.52	0.43
31:DA:1695:G:H2'	31:DA:1696:G:C4'	2.48	0.43
31:DA:1884:A:C3'	31:DA:1885:A:H5"	2.47	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2036:C:H6	31:DA:2036:C:C5'	2.20	0.43
31:DA:2054:A:H5"	31:DA:2055:C:O5'	2.18	0.43
31:DA:2306:C:OP2	31:DA:2307:G:C8	2.72	0.43
32:DB:21:G:C6	32:DB:63:G:C6	3.06	0.43
32:DB:75:G:N3	51:DZ:85:HIS:CE1	2.86	0.43
32:DB:100:A:N3	32:DB:100:A:H2'	2.33	0.43
33:DD:179:SER:HB2	33:DD:181:GLU:H	1.83	0.43
35:DF:22:ALA:HB1	35:DF:26:ALA:CB	2.48	0.43
39:DN:68:GLU:HA	39:DN:86:PRO:HB3	2.00	0.43
40:DO:106:LEU:HD23	40:DO:106:LEU:HA	1.57	0.43
41:DP:104:GLY:C	41:DP:105:LEU:HD12	2.43	0.43
42:DQ:28:ALA:C	42:DQ:29:PHE:CD1	2.97	0.43
42:DQ:50:ALA:O	42:DQ:51:ARG:C	2.59	0.43
42:DQ:54:MET:HE3	42:DQ:64:ILE:CG2	2.48	0.43
42:DQ:101:ARG:HG3	42:DQ:102:VAL:N	2.32	0.43
44:DS:67:ARG:N	44:DS:69:VAL:HG12	2.30	0.43
47:DV:47:VAL:CG2	47:DV:49:THR:HB	2.47	0.43
49:DX:21:PHE:HD1	49:DX:21:PHE:H	1.62	0.43
1:AA:22:G:H4'	1:AA:885:G:C8	2.53	0.43
1:AA:758:G:H5"	1:AA:880:C:H1'	2.00	0.43
1:AA:980:C:O2	14:AN:19:ARG:HA	2.18	0.43
1:AA:1256:A:O3'	1:AA:1257:U:H4'	2.19	0.43
1:AA:1319:A:N6	1:AA:1361:G:H21	2.16	0.43
2:AB:194:PRO:O	2:AB:196:LEU:N	2.52	0.43
3:AC:159:GLY:HA2	3:AC:193:TYR:CD1	2.53	0.43
7:AG:153:HIS:HA	7:AG:155:ARG:HH12	1.83	0.43
9:AI:3:GLN:C	9:AI:4:TYR:CD1	2.97	0.43
13:AM:29:ARG:HA	13:AM:32:GLU:HB3	2.01	0.43
23:B1:16:ASN:HB3	23:B1:46:LEU:HD11	2.01	0.43
24:B2:15:LYS:O	24:B2:16:LEU:HB2	2.19	0.43
24:B2:33:MET:HG2	49:BX:11:PRO:HD3	1.97	0.43
30:B8:63:PRO:O	30:B8:64:TYR:C	2.61	0.43
31:BA:287:C:N3	31:BA:288:C:C6	2.86	0.43
31:BA:287:C:H2'	31:BA:288:C:O4'	2.18	0.43
31:BA:315:G:H2'	31:BA:316:C:C6	2.52	0.43
31:BA:415:A:H2'	31:BA:416:C:H6	1.83	0.43
31:BA:455:C:N3	31:BA:473:G:H5'	2.32	0.43
31:BA:489:G:H2'	31:BA:491:G:O4'	2.17	0.43
31:BA:742:G:H2'	31:BA:743:G:C8	2.54	0.43
31:BA:832:G:OP1	41:BP:40:SER:HB3	2.17	0.43
31:BA:1176:G:C1'	31:BA:1177:A:OP1	2.66	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1444:G:N2	31:BA:1548:C:C2	2.86	0.43
31:BA:1494:A:N3	31:BA:1494:A:C2'	2.81	0.43
31:BA:2037:G:C6	31:BA:2038:G:C6	3.06	0.43
31:BA:2250:G:C6	42:BQ:82:ARG:HD3	2.53	0.43
31:BA:2418:A:H2'	31:BA:2419:U:H6	1.83	0.43
31:BA:2732:G:H3'	31:BA:2733:A:C5'	2.48	0.43
33:BD:82:ILE:O	33:BD:82:ILE:HG22	2.17	0.43
33:BD:92:ILE:HD13	33:BD:104:TYR:CE2	2.53	0.43
34:BE:71:GLY:O	34:BE:72:VAL:HB	2.18	0.43
35:BF:119:ARG:HG2	35:BF:119:ARG:O	2.17	0.43
39:BN:27:ALA:HB1	39:BN:106:MET:HE2	2.00	0.43
39:BN:56:ASN:HA	39:BN:125:GLY:H	1.83	0.43
39:BN:69:GLN:HE21	39:BN:69:GLN:HB3	1.56	0.43
41:BP:13:ASN:C	41:BP:13:ASN:ND2	2.72	0.43
41:BP:21:ARG:O	41:BP:21:ARG:HG2	2.17	0.43
44:BS:53:SER:O	44:BS:56:LEU:HB3	2.18	0.43
49:BX:85:PRO:O	49:BX:87:GLN:N	2.51	0.43
50:BY:15:VAL:HG12	50:BY:16:ALA:N	2.33	0.43
1:CA:90:U:H5"	1:CA:91:C:H5'	1.99	0.43
1:CA:242:C:H2'	1:CA:243:A:H5'	1.99	0.43
1:CA:273:A:O2'	1:CA:274:A:H5'	2.17	0.43
1:CA:953:G:H5'	1:CA:965:A:H61	1.83	0.43
1:CA:982:U:H4'	1:CA:983:A:O5'	2.19	0.43
1:CA:1158:C:H3'	1:CA:1158:C:O2	2.19	0.43
1:CA:1407:C:O5'	1:CA:1407:C:H6	2.00	0.43
2:CB:158:LEU:HD12	2:CB:158:LEU:H	1.81	0.43
3:CC:111:LEU:HD21	3:CC:145:GLY:O	2.18	0.43
7:CG:26:PHE:CG	7:CG:62:PHE:CE1	3.06	0.43
8:CH:36:LEU:HD12	8:CH:59:LEU:HD12	2.00	0.43
10:CJ:62:HIS:O	10:CJ:62:HIS:HD2	2.00	0.43
11:CK:23:ALA:HB3	11:CK:85:ARG:O	2.18	0.43
12:CL:38:THR:HG23	12:CL:39:VAL:N	2.34	0.43
15:CO:63:ARG:O	15:CO:64:ARG:C	2.61	0.43
20:CT:50:GLU:HB3	20:CT:100:ILE:HD13	2.00	0.43
24:D2:41:ILE:CG2	31:DA:95:G:H21	2.27	0.43
25:D3:11:SER:HB3	31:DA:988:A:P	2.58	0.43
27:D5:2:ALA:HA	31:DA:2015:A:C1'	2.39	0.43
28:D6:11:LEU:HD11	28:D6:26:ASN:ND2	2.32	0.43
28:D6:45:LYS:HD3	28:D6:45:LYS:HA	1.80	0.43
29:D7:22:MET:HE2	31:DA:118:A:OP1	2.19	0.43
31:DA:271(D):G:C5	31:DA:271(E):U:C5	3.07	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:319:C:O2'	31:DA:320:A:H5'	2.18	0.43
31:DA:533:G:H5'	46:DU:24:TYR:CE2	2.53	0.43
31:DA:824:A:C2'	31:DA:825:C:H5'	2.48	0.43
31:DA:1356:G:C5	31:DA:1357:U:C4	3.07	0.43
31:DA:1411:C:O2'	31:DA:1412:A:H5'	2.17	0.43
31:DA:1553:A:C6	31:DA:1555:G:H1'	2.54	0.43
31:DA:2189:U:H2'	31:DA:2190:G:O4'	2.18	0.43
31:DA:2196:C:O2'	31:DA:2197:U:H5'	2.18	0.43
31:DA:2270:G:C2'	31:DA:2271:G:H5'	2.48	0.43
31:DA:2774:C:H2'	31:DA:2775:A:O4'	2.19	0.43
31:DA:2849:U:H4'	31:DA:2868:A:C2	2.54	0.43
32:DB:10:C:O2'	32:DB:11:C:H5'	2.17	0.43
34:DE:47:VAL:CG2	34:DE:84:PHE:O	2.60	0.43
34:DE:52:LEU:O	34:DE:74:PRO:CA	2.67	0.43
37:DH:116:GLU:HG2	37:DH:117:PRO:N	2.32	0.43
37:DH:158:HIS:CE1	37:DH:169:VAL:N	2.86	0.43
38:DI:15:VAL:HG22	38:DI:16:GLY:N	2.33	0.43
39:DN:94:HIS:HA	39:DN:95:PRO:HD2	1.86	0.43
42:DQ:8:LYS:HB3	42:DQ:10:ARG:HD3	2.00	0.43
42:DQ:141:GLN:HE22	51:DZ:89:PHE:CB	2.28	0.43
45:DT:129:ARG:CZ	45:DT:131:ALA:CB	2.96	0.43
47:DV:2:PHE:O	47:DV:3:ALA:HB3	2.18	0.43
47:DV:39:LEU:HD12	47:DV:39:LEU:O	2.18	0.43
48:DW:10:VAL:O	48:DW:11:ARG:CB	2.67	0.43
49:DX:59:VAL:HG22	49:DX:74:PRO:O	2.18	0.43
51:DZ:76:LEU:HD23	51:DZ:76:LEU:HA	1.62	0.43
1:AA:292:G:H1	1:AA:308:C:H42	1.66	0.43
1:AA:363:A:OP2	12:AL:34:ARG:HB3	2.18	0.43
1:AA:558:G:H5"	1:AA:559:A:P	2.58	0.43
1:AA:854:G:H3'	1:AA:871:U:O4	2.18	0.43
1:AA:1048:G:P	14:AN:4:LYS:HB2	2.58	0.43
1:AA:1250:A:C6	1:AA:1251:A:C6	3.05	0.43
1:AA:1308:U:H2'	1:AA:1309:G:H8	1.83	0.43
2:AB:204:ASN:HD21	2:AB:207:ALA:H	1.67	0.43
3:AC:126:ARG:O	3:AC:127:ARG:HB2	2.18	0.43
4:AD:6:GLY:O	4:AD:7:PRO:C	2.61	0.43
4:AD:14:ARG:HB2	4:AD:40:PRO:HD2	2.00	0.43
4:AD:131:ARG:HD3	4:AD:131:ARG:N	2.31	0.43
8:AH:1:MET:O	8:AH:2:LEU:O	2.35	0.43
15:AO:61:GLY:O	15:AO:64:ARG:HB3	2.18	0.43
20:AT:26:ASN:HA	20:AT:29:LYS:HG2	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:41:ARG:H	22:B0:41:ARG:CD	2.21	0.43
23:B1:73:LEU:O	23:B1:76:ARG:HG2	2.18	0.43
30:B8:30:ARG:HB3	31:BA:2393:A:OP2	2.19	0.43
31:BA:69:C:H2'	31:BA:70:G:C8	2.53	0.43
31:BA:271(S):G:C5	31:BA:271(T):C:C5	3.07	0.43
31:BA:442:G:C6	31:BA:444:C:N4	2.86	0.43
31:BA:449:A:H2'	31:BA:450:G:C5'	2.49	0.43
31:BA:620:G:C4'	31:BA:621:A:H5"	2.47	0.43
31:BA:711:G:H2'	31:BA:712:G:O4'	2.17	0.43
31:BA:836:G:C6	31:BA:837:C:C4	3.07	0.43
31:BA:930:U:H4'	31:BA:931:G:O5'	2.18	0.43
31:BA:972:G:OP2	31:BA:974:G:H5"	2.18	0.43
31:BA:1005:C:H2'	31:BA:1006:C:C6	2.53	0.43
31:BA:1384:A:H1'	31:BA:1405:U:O4'	2.19	0.43
31:BA:1408:C:C2	31:BA:1595:G:N2	2.87	0.43
31:BA:1711:C:O2'	31:BA:1712:C:H5'	2.18	0.43
31:BA:1882:C:H3'	31:BA:1883:G:H8	1.84	0.43
31:BA:2243:U:C2'	31:BA:2244:U:H5'	2.48	0.43
31:BA:2590:A:O2'	31:BA:2591:C:H5'	2.17	0.43
31:BA:2649:U:H2'	31:BA:2650:U:C6	2.54	0.43
31:BA:2663:G:C6	31:BA:2664:G:C4	3.06	0.43
31:BA:2693:A:H2'	31:BA:2694:G:H8	1.84	0.43
31:BA:2724:C:OP2	43:BR:2:ARG:CZ	2.66	0.43
31:BA:2850:A:H5'	31:BA:2868:A:H2	1.84	0.43
34:BE:53:PRO:O	34:BE:55:ASN:OD1	2.36	0.43
34:BE:89:ASP:O	34:BE:90:THR:OG1	2.34	0.43
34:BE:110:GLY:O	43:BR:2:ARG:HB3	2.18	0.43
34:BE:111:ARG:HD2	34:BE:160:TYR:CD1	2.53	0.43
34:BE:116:VAL:HG22	34:BE:122:PHE:HB2	1.99	0.43
36:BG:57:ALA:O	36:BG:60:LEU:HB3	2.18	0.43
36:BG:120:LEU:HB2	36:BG:179:PRO:O	2.18	0.43
37:BH:126:PRO:HB2	37:BH:130:ARG:HH12	1.82	0.43
38:BI:83:ALA:HB2	38:BI:88:ILE:HD13	2.01	0.43
38:BI:124:GLY:N	38:BI:142:VAL:HG23	2.34	0.43
39:BN:3:THR:HA	39:BN:4:TYR:CD1	2.53	0.43
41:BP:81:GLN:HE21	41:BP:81:GLN:HB2	1.55	0.43
43:BR:2:ARG:CD	43:BR:2:ARG:N	2.80	0.43
43:BR:38:VAL:HB	43:BR:39:PRO:HD3	2.00	0.43
44:BS:74:ALA:CB	44:BS:103:GLU:HB2	2.48	0.43
45:BT:35:LYS:C	45:BT:37:GLY:N	2.76	0.43
46:BU:88:ILE:O	46:BU:89:GLU:C	2.58	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BW:44:ALA:O	48:BW:45:TYR:C	2.61	0.43
49:BX:88:LYS:N	49:BX:88:LYS:HD2	2.33	0.43
51:BZ:24:LEU:HA	51:BZ:25:PRO:HD2	1.80	0.43
51:BZ:146:ILE:HA	51:BZ:174:VAL:HG12	2.01	0.43
1:CA:47:C:H5"	1:CA:365:U:C6	2.53	0.43
1:CA:124:G:H1	1:CA:237:C:H42	1.66	0.43
1:CA:184:G:N2	1:CA:194:C:C2	2.87	0.43
1:CA:349:A:O2'	1:CA:350:G:H5'	2.19	0.43
1:CA:457:C:C2	1:CA:458:C:C5	3.06	0.43
1:CA:981:U:O5'	1:CA:981:U:H6	2.01	0.43
1:CA:1079:G:H2'	1:CA:1080:A:C8	2.53	0.43
1:CA:1127:G:C2'	1:CA:1147:C:H42	2.31	0.43
1:CA:1150:U:C5	1:CA:1151:A:N7	2.85	0.43
1:CA:1386:G:N3	1:CA:1387:G:C8	2.85	0.43
2:CB:22:LYS:HZ3	2:CB:40:HIS:CE1	2.30	0.43
2:CB:162:ILE:O	2:CB:185:ILE:HG12	2.19	0.43
4:CD:16:GLY:O	4:CD:17:VAL:C	2.62	0.43
4:CD:65:ARG:HD2	4:CD:72:GLU:HA	2.00	0.43
4:CD:96:LEU:HD22	4:CD:96:LEU:H	1.83	0.43
4:CD:116:GLN:NE2	4:CD:157:LEU:HD21	2.34	0.43
6:CF:23:LYS:HE2	6:CF:23:LYS:HB3	1.78	0.43
19:CS:20:LEU:O	19:CS:23:ASN:HB3	2.18	0.43
24:D2:47:ASN:O	24:D2:49:LYS:N	2.51	0.43
24:D2:54:LYS:N	24:D2:56:GLN:HE22	2.14	0.43
27:D5:31:VAL:O	27:D5:39:MET:HA	2.17	0.43
31:DA:28:A:C2	31:DA:513:A:C8	3.07	0.43
31:DA:53:A:H61	31:DA:117:G:C2'	2.31	0.43
31:DA:271(H):G:C6	31:DA:271(Q):G:N1	2.86	0.43
31:DA:672:C:H2'	31:DA:673:C:H6	1.83	0.43
31:DA:1248:G:OP1	46:DU:2:PRO:HD2	2.18	0.43
31:DA:1528:A:O2'	31:DA:1528(A):A:P	2.76	0.43
31:DA:2271:G:H8	31:DA:2271:G:O5'	2.02	0.43
31:DA:2472:G:C8	31:DA:2472:G:C5'	3.02	0.43
31:DA:2557:G:H2'	31:DA:2558:C:C6	2.54	0.43
31:DA:2859:G:HO2'	31:DA:2860:A:P	2.41	0.43
32:DB:66:A:C6	32:DB:109:C:C5	3.06	0.43
32:DB:79:C:H2'	32:DB:80:U:O4'	2.18	0.43
33:DD:80:ALA:HB3	33:DD:94:LEU:HD13	2.00	0.43
33:DD:125:ILE:CD1	33:DD:137:PRO:HD3	2.48	0.43
35:DF:18:ARG:NH1	35:DF:199:TRP:HZ3	2.16	0.43
36:DG:56:ALA:HA	36:DG:59:GLU:OE1	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DH:131:VAL:CG1	37:DH:132:ARG:N	2.82	0.43
40:DO:17:ARG:HA	40:DO:17:ARG:HD3	1.70	0.43
40:DO:63:VAL:HG23	40:DO:64:ARG:HB2	1.99	0.43
40:DO:66:LYS:H	40:DO:82:ASN:HD21	1.62	0.43
41:DP:146:VAL:CG2	41:DP:147:LEU:H	2.15	0.43
42:DQ:37:LEU:HD12	42:DQ:129:THR:CA	2.48	0.43
43:DR:103:ARG:NH1	48:DW:40:ASN:ND2	2.67	0.43
46:DU:115:ALA:C	46:DU:117:GLN:H	2.27	0.43
47:DV:16:PRO:C	47:DV:98:GLU:OE2	2.61	0.43
49:DX:37:THR:O	49:DX:37:THR:CG2	2.65	0.43
50:DY:12:THR:O	50:DY:12:THR:HG22	2.17	0.43
51:DZ:106:GLY:HA3	51:DZ:141:VAL:O	2.18	0.43
1:AA:135:C:H2'	1:AA:136:C:H5'	2.00	0.43
1:AA:143:A:N1	1:AA:220:G:O6	2.51	0.43
1:AA:197:A:N6	1:AA:221:C:H5'	2.34	0.43
1:AA:308:C:H2'	1:AA:309:G:H8	1.83	0.43
1:AA:457:C:H2'	1:AA:458:C:C6	2.38	0.43
1:AA:818:G:HO2'	1:AA:820:U:H6	1.63	0.43
1:AA:832:C:O2'	1:AA:833:U:O5'	2.33	0.43
1:AA:923:A:H5"	5:AE:21:ALA:HB2	2.00	0.43
1:AA:946:A:C2	1:AA:1236:A:C2	3.06	0.43
1:AA:953:G:H5'	1:AA:965:A:H61	1.84	0.43
1:AA:1006:C:H42	1:AA:1024:G:H21	1.66	0.43
1:AA:1371:G:C6	1:AA:1372:U:C4	3.07	0.43
1:AA:1407:C:O2	31:BA:1912:A:H2	2.01	0.43
2:AB:28:PHE:CD1	2:AB:190:THR:HA	2.52	0.43
2:AB:67:THR:HG22	2:AB:90:MET:CE	2.48	0.43
2:AB:144:ARG:O	2:AB:145:LEU:C	2.61	0.43
3:AC:87:LEU:O	3:AC:91:LEU:HG	2.19	0.43
5:AE:19:MET:HE3	5:AE:19:MET:HB3	1.85	0.43
8:AH:116:LYS:O	8:AH:119:LEU:HD21	2.18	0.43
9:AI:4:TYR:HD2	9:AI:59:PHE:HE2	1.67	0.43
14:AN:36:PHE:HD1	14:AN:37:PHE:CD2	2.37	0.43
15:AO:75:PRO:O	15:AO:78:TYR:HB3	2.18	0.43
19:AS:15:LEU:HD21	19:AS:35:SER:HB3	2.00	0.43
20:AT:73:HIS:HB3	20:AT:74:LYS:H	1.53	0.43
23:B1:73:LEU:HB3	23:B1:90:ILE:HG23	2.00	0.43
24:B2:34:GLU:O	24:B2:35:LEU:C	2.62	0.43
27:B5:2:ALA:HB3	31:BA:747:U:N1	2.33	0.43
28:B6:14:THR:C	28:B6:15:GLU:O	2.58	0.43
31:BA:50:U:H5"	31:BA:50:U:C6	2.53	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:108:U:H2'	31:BA:109:G:H8	1.83	0.43
31:BA:201:C:O2'	31:BA:251:A:N1	2.51	0.43
31:BA:356:G:C2	31:BA:357:A:C4	3.06	0.43
31:BA:357:A:C2	31:BA:358:U:N3	2.85	0.43
31:BA:690:G:H2'	31:BA:691:C:C6	2.53	0.43
31:BA:745:G:P	34:BE:133:LYS:HE3	2.58	0.43
31:BA:784:A:C6	33:BD:229:VAL:HG11	2.54	0.43
31:BA:806:C:OP2	41:BP:39:LYS:HG3	2.17	0.43
31:BA:1531:C:C3'	31:BA:1532:C:C5'	2.94	0.43
31:BA:1719:G:C6	31:BA:1720:U:C4	3.07	0.43
31:BA:1805:U:H2'	31:BA:1806:C:H6	1.83	0.43
33:BD:33:LEU:C	33:BD:35:LYS:O	2.62	0.43
33:BD:231:HIS:CD2	33:BD:232:PRO:HD2	2.53	0.43
34:BE:201:THR:CG2	34:BE:203:LYS:H	2.23	0.43
35:BF:117:ARG:HD3	35:BF:117:ARG:HA	1.78	0.43
36:BG:81:LYS:O	36:BG:83:ARG:HG3	2.18	0.43
37:BH:158:HIS:NE2	37:BH:169:VAL:O	2.52	0.43
39:BN:40:PRO:HB3	46:BU:68:ALA:HB2	2.00	0.43
41:BP:8:PRO:O	41:BP:10:PRO:HD3	2.18	0.43
42:BQ:54:MET:HE2	42:BQ:54:MET:HB2	1.84	0.43
42:BQ:85:LYS:HG3	42:BQ:86:GLY:H	1.83	0.43
46:BU:8:VAL:CG1	46:BU:12:ARG:HG3	2.48	0.43
46:BU:115:ALA:C	46:BU:117:GLN:H	2.27	0.43
50:BY:87:LYS:HG3	50:BY:88:LYS:N	2.33	0.43
51:BZ:44:PHE:CE2	51:BZ:86:VAL:HG11	2.53	0.43
1:CA:106:C:H2'	1:CA:107:G:H8	1.84	0.43
1:CA:143:A:N1	1:CA:220:G:O6	2.52	0.43
1:CA:227:G:O2'	1:CA:228:A:H5'	2.18	0.43
1:CA:427:U:P	4:CD:13:ARG:HH22	2.41	0.43
1:CA:491:G:H2'	1:CA:492:G:O4'	2.18	0.43
1:CA:994:A:H62	1:CA:1046:A:H2	1.65	0.43
1:CA:1243:C:OP2	21:CU:10:ARG:CZ	2.66	0.43
1:CA:1277:C:O2'	1:CA:1279:A:H1'	2.18	0.43
2:CB:74:LYS:O	2:CB:78:GLN:HG3	2.18	0.43
2:CB:158:LEU:H	2:CB:158:LEU:CD1	2.31	0.43
3:CC:126:ARG:C	3:CC:127:ARG:HD2	2.43	0.43
4:CD:13:ARG:HD2	4:CD:38:TYR:O	2.19	0.43
6:CF:15:ASP:O	6:CF:19:LEU:CB	2.67	0.43
7:CG:94:ARG:H	7:CG:94:ARG:HG3	1.59	0.43
9:CI:26:VAL:HA	9:CI:61:ALA:O	2.18	0.43
9:CI:114:TYR:CD1	10:CJ:60:ARG:HG2	2.51	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CO:63:ARG:HG3	15:CO:67:LEU:HD12	2.00	0.43
15:CO:78:TYR:O	15:CO:79:ARG:C	2.59	0.43
17:CQ:59:ILE:HD13	17:CQ:73:VAL:HA	2.00	0.43
24:D2:14:ARG:HD3	24:D2:57:ILE:HB	2.00	0.43
24:D2:34:GLU:O	24:D2:34:GLU:CG	2.66	0.43
27:D5:47:PRO:C	27:D5:48:GLU:CG	2.91	0.43
30:D8:29:LYS:O	30:D8:30:ARG:C	2.62	0.43
31:DA:21:A:O2'	31:DA:22:C:H5'	2.19	0.43
31:DA:614(A):U:H4'	31:DA:614(B):G:H5"	2.00	0.43
31:DA:1138:G:HO2'	39:DN:105:GLY:HA3	1.81	0.43
31:DA:1348:G:C6	31:DA:1349:A:N1	2.87	0.43
31:DA:1438:U:C2'	31:DA:1439:A:H5'	2.49	0.43
31:DA:1489:U:H2'	31:DA:1490:A:OP2	2.17	0.43
31:DA:1649:G:C6	31:DA:2009:G:C6	3.07	0.43
31:DA:1651:G:C3'	31:DA:1652:A:H5"	2.48	0.43
31:DA:1802:A:N1	31:DA:1822:G:H1'	2.34	0.43
31:DA:1856:G:C2'	31:DA:1857:G:H5'	2.48	0.43
31:DA:2037:G:C6	31:DA:2038:G:C6	3.06	0.43
31:DA:2476:A:C2'	31:DA:2477:C:H5"	2.46	0.43
31:DA:2517:C:C4	31:DA:2542:A:C6	3.07	0.43
31:DA:2850:A:OP2	31:DA:2866:U:C5	2.71	0.43
33:DD:63:ARG:NH1	33:DD:63:ARG:HG3	2.33	0.43
33:DD:254:THR:H	33:DD:255:LYS:HZ1	1.66	0.43
34:DE:11:MET:O	45:DT:8:LYS:HE2	2.18	0.43
34:DE:89:ASP:O	34:DE:90:THR:OG1	2.32	0.43
34:DE:104:VAL:HG11	34:DE:188:VAL:HG23	2.00	0.43
35:DF:117:ARG:HD3	35:DF:117:ARG:HA	1.82	0.43
39:DN:3:THR:CG2	39:DN:4:TYR:N	2.71	0.43
40:DO:7:TYR:CZ	40:DO:44:LYS:HG3	2.53	0.43
41:DP:114:ILE:O	41:DP:114:ILE:HG13	2.18	0.43
45:DT:22:PHE:CE2	45:DT:85:LYS:HE3	2.53	0.43
47:DV:53:GLU:C	47:DV:55:ALA:N	2.76	0.43
50:DY:7:VAL:CB	50:DY:8:LYS:HZ2	2.20	0.43
1:AA:57:G:C6	1:AA:58:C:N3	2.87	0.43
1:AA:363:A:O2'	1:AA:364:A:H5'	2.19	0.43
1:AA:491:G:H2'	1:AA:492:G:C8	2.53	0.43
1:AA:512:U:C2	1:AA:513:C:C5	3.07	0.43
1:AA:521:G:O2'	1:AA:522:C:H5'	2.18	0.43
1:AA:542:G:P	4:AD:10:ARG:HH21	2.41	0.43
1:AA:561:U:HO2'	1:AA:562:C:P	2.38	0.43
1:AA:673:G:O3'	6:AF:87:ARG:NH2	2.52	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:709:G:H2'	1:AA:710:G:C8	2.51	0.43
1:AA:774:G:N2	1:AA:806:C:C2	2.87	0.43
1:AA:1125:U:O3'	1:AA:1126:U:C6	2.72	0.43
1:AA:1392:G:C2'	1:AA:1393:U:H5'	2.48	0.43
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.18	0.43
3:AC:11:ARG:O	3:AC:12:LEU:C	2.60	0.43
3:AC:59:ARG:HE	3:AC:64:VAL:HG13	1.83	0.43
4:AD:208:SER:O	4:AD:209:ARG:C	2.62	0.43
7:AG:37:ASN:HD21	9:AI:40:LEU:CD2	2.31	0.43
8:AH:6:ILE:O	8:AH:8:ASP:N	2.52	0.43
8:AH:9:MET:O	8:AH:10:LEU:C	2.62	0.43
13:AM:12:ASN:OD1	13:AM:46:LYS:HE2	2.18	0.43
16:AP:1:MET:HG2	16:AP:2:VAL:O	2.18	0.43
17:AQ:15:MET:HE3	17:AQ:15:MET:HB2	1.89	0.43
17:AQ:29:HIS:HB2	17:AQ:36:ILE:HD13	1.99	0.43
17:AQ:45:HIS:O	17:AQ:73:VAL:HG23	2.17	0.43
18:AR:51:LEU:HB2	18:AR:56:THR:HG22	2.00	0.43
19:AS:36:ARG:HH12	19:AS:75:ALA:CB	2.25	0.43
22:B0:25:ARG:HA	22:B0:29:GLN:HE22	1.84	0.43
27:B5:4:HIS:O	31:BA:2056:G:N2	2.52	0.43
29:B7:35:ARG:HD3	31:BA:54:G:O2'	2.18	0.43
30:B8:13:ARG:HB3	41:BP:63:PRO:HB3	1.99	0.43
31:BA:53:A:C8	31:BA:54:G:C8	3.07	0.43
31:BA:64:A:O3'	49:BX:68:ARG:O	2.37	0.43
31:BA:67:U:C2'	31:BA:68:G:H5'	2.49	0.43
31:BA:628:G:C6	31:BA:629:G:C6	3.06	0.43
31:BA:631:A:H61	31:BA:2402:C:N4	2.17	0.43
31:BA:778:G:C5	31:BA:779:U:C5	3.05	0.43
31:BA:980:A:C6	31:BA:981:A:N1	2.86	0.43
31:BA:1696:G:C6	31:BA:1697:G:C5	3.07	0.43
31:BA:1700:A:H2'	31:BA:1701:A:H5'	2.00	0.43
31:BA:1816:G:C8	33:BD:62:TYR:CZ	3.06	0.43
31:BA:2463:C:C2'	31:BA:2464:C:C5'	2.88	0.43
31:BA:2663:G:C6	31:BA:2664:G:C5	3.06	0.43
31:BA:2749:A:H4'	37:BH:62:LYS:HB3	2.01	0.43
31:BA:2781:A:H8	31:BA:2781:A:C5'	2.27	0.43
31:BA:2869:G:H2'	31:BA:2870:C:O4'	2.19	0.43
33:BD:24:ILE:HA	33:BD:82:ILE:HG22	2.00	0.43
33:BD:94:LEU:HD23	33:BD:94:LEU:HA	1.74	0.43
34:BE:29:GLY:H	34:BE:51:PHE:HE2	1.66	0.43
34:BE:31:CYS:HA	34:BE:32:PRO:HD3	1.81	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:65:TRP:CZ3	35:BF:72:ARG:HB3	2.54	0.43
35:BF:192:LEU:HD11	35:BF:194:MET:HE2	1.99	0.43
36:BG:7:LEU:O	36:BG:8:LYS:C	2.61	0.43
37:BH:22:GLY:C	37:BH:23:ARG:HG2	2.44	0.43
39:BN:2:LYS:HE2	46:BU:95:LEU:HD21	2.01	0.43
41:BP:32:THR:O	41:BP:36:LYS:HB2	2.19	0.43
41:BP:100:LEU:CD2	41:BP:112:LEU:HD11	2.49	0.43
43:BR:21:TYR:OH	43:BR:43:GLU:HG2	2.18	0.43
44:BS:34:HIS:CE1	44:BS:54:LEU:CB	2.86	0.43
44:BS:88:ASP:O	44:BS:92:TYR:CD2	2.71	0.43
47:BV:63:GLY:O	47:BV:64:HIS:HB3	2.19	0.43
49:BX:55:ASN:HD22	49:BX:55:ASN:N	2.16	0.43
50:BY:50:ARG:HB3	50:BY:51:VAL:H	1.65	0.43
50:BY:54:LYS:O	50:BY:55:TYR:O	2.36	0.43
1:CA:13:U:C5	1:CA:916:G:O6	2.71	0.43
1:CA:66:G:O4'	1:CA:173:U:C4	2.71	0.43
1:CA:233:C:H2'	1:CA:234:C:H6	1.83	0.43
1:CA:356:A:H2'	1:CA:357:G:H8	1.83	0.43
1:CA:558:G:C5	1:CA:559:A:C2	3.07	0.43
1:CA:991:U:O2'	1:CA:992:U:P	2.77	0.43
1:CA:1433:A:C6	1:CA:1468:A:C4	3.05	0.43
1:CA:1502:A:H2	1:CA:1505:G:C2	2.36	0.43
2:CB:157:ARG:O	2:CB:159:PRO:HD3	2.18	0.43
5:CE:12:LEU:O	5:CE:13:ILE:HD12	2.19	0.43
5:CE:128:PRO:O	5:CE:129:ILE:C	2.61	0.43
7:CG:113:GLU:CB	7:CG:119:ARG:HG2	2.40	0.43
10:CJ:33:GLN:HB2	10:CJ:75:ILE:CD1	2.46	0.43
12:CL:27:LEU:HD22	12:CL:27:LEU:N	2.33	0.43
14:CN:25:VAL:HG23	14:CN:38:GLY:O	2.18	0.43
17:CQ:52:LYS:HE3	17:CQ:52:LYS:HB3	1.84	0.43
20:CT:93:GLU:O	20:CT:93:GLU:HG2	2.18	0.43
23:D1:56:GLN:HG3	23:D1:57:GLU:HG2	2.00	0.43
23:D1:70:VAL:O	23:D1:73:LEU:HB2	2.19	0.43
27:D5:56:LYS:HE3	27:D5:59:GLU:OE1	2.19	0.43
31:DA:260:G:O4'	31:DA:621:A:H1'	2.19	0.43
31:DA:456:C:C5	49:DX:66:LEU:HD22	2.53	0.43
31:DA:458:G:O2'	31:DA:469:G:O6	2.28	0.43
31:DA:460:A:H2'	31:DA:461:C:O4'	2.18	0.43
31:DA:542:C:N4	31:DA:543:C:H42	2.14	0.43
31:DA:585:G:H2'	31:DA:1251:C:H42	1.84	0.43
31:DA:627:A:H62	41:DP:84:ASN:HD21	1.67	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:697:C:C2	31:DA:698:C:C5	3.06	0.43
31:DA:955:C:O2	31:DA:955:C:H2'	2.18	0.43
31:DA:1191:G:H2'	31:DA:1192:G:O4'	2.19	0.43
31:DA:1359:A:H8	31:DA:1372:U:O4	1.98	0.43
31:DA:1686:C:C2'	31:DA:1687:G:H5'	2.48	0.43
31:DA:1773:A:N7	31:DA:1829:A:H1'	2.34	0.43
31:DA:2376:A:O2'	44:DS:108:GLY:HA2	2.18	0.43
31:DA:2475:C:H42	31:DA:2529:G:H22	1.67	0.43
31:DA:2748:A:C6	31:DA:2749:A:C5	3.07	0.43
31:DA:2762:G:C2'	31:DA:2763:G:H5'	2.49	0.43
33:DD:62:TYR:HA	33:DD:87:ASN:HD21	1.83	0.43
33:DD:267:SER:O	33:DD:269:PHE:N	2.51	0.43
34:DE:36:ARG:HG2	34:DE:85:ASN:HD21	1.83	0.43
35:DF:53:THR:HG23	35:DF:55:GLY:H	1.76	0.43
36:DG:29:TRP:C	36:DG:31:VAL:H	2.25	0.43
36:DG:60:LEU:O	36:DG:63:ILE:HG13	2.18	0.43
36:DG:163:ALA:O	36:DG:164:GLU:HG2	2.18	0.43
38:DI:56:LYS:NZ	38:DI:57:ARG:HA	2.33	0.43
39:DN:58:ASP:OD1	39:DN:124:ALA:HB1	2.19	0.43
39:DN:78:TYR:N	39:DN:79:PRO:CD	2.82	0.43
41:DP:105:LEU:O	41:DP:106:LEU:CB	2.46	0.43
42:DQ:121:ALA:O	42:DQ:124:LYS:N	2.46	0.43
44:DS:102:ALA:HB3	44:DS:103:GLU:HG2	2.01	0.43
46:DU:22:LYS:HA	46:DU:22:LYS:HD3	1.57	0.43
46:DU:27:LEU:HB2	46:DU:31:SER:HB3	1.99	0.43
47:DV:47:VAL:CG1	47:DV:48:GLY:H	2.10	0.43
47:DV:66:ARG:HD2	47:DV:67:GLY:CA	2.47	0.43
47:DV:72:VAL:CG1	47:DV:88:ARG:HH22	2.32	0.43
50:DY:27:VAL:CG1	50:DY:29:GLU:OE1	2.66	0.43
50:DY:83:THR:HG22	50:DY:84:ARG:O	2.19	0.43
1:AA:125:U:O3'	1:AA:633:G:N2	2.52	0.43
1:AA:148:G:H2'	1:AA:149:A:H8	1.84	0.43
1:AA:564:C:H5'	12:AL:10:LEU:HD12	2.01	0.43
1:AA:770:C:O2'	1:AA:771:G:H5'	2.18	0.43
1:AA:1160:G:N2	1:AA:1161:C:C6	2.86	0.43
1:AA:1299:A:C5	1:AA:1301:U:O2	2.72	0.43
2:AB:54:THR:O	2:AB:58:ILE:HG12	2.19	0.43
2:AB:171:ALA:HA	2:AB:174:VAL:CG2	2.48	0.43
3:AC:35:GLU:HA	3:AC:38:ARG:HG2	2.01	0.43
3:AC:178:LEU:C	3:AC:180:ALA:H	2.27	0.43
4:AD:33:MET:C	4:AD:35:ARG:N	2.76	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:50:TYR:HE2	6:AF:52:ILE:HG12	1.83	0.43
10:AJ:54:PHE:CZ	10:AJ:55:LYS:NZ	2.75	0.43
11:AK:69:ALA:HB1	11:AK:103:LEU:HD23	1.99	0.43
13:AM:40:ASN:HA	13:AM:41:PRO:HD3	1.81	0.43
17:AQ:59:ILE:HG22	17:AQ:71:PHE:CD1	2.47	0.43
22:B0:26:TYR:O	22:B0:29:GLN:HB2	2.19	0.43
22:B0:41:ARG:HB2	31:BA:2330:G:H1'	1.99	0.43
23:B1:11:ARG:HD2	23:B1:11:ARG:HA	1.55	0.43
24:B2:26:ARG:HG3	24:B2:29:LYS:NZ	2.34	0.43
25:B3:1:MET:HB2	25:B3:38:GLU:OE2	2.18	0.43
31:BA:95:G:N2	31:BA:96:G:H1'	2.33	0.43
31:BA:518:G:H4'	48:BW:18:ARG:HH12	1.81	0.43
31:BA:826:U:H2'	31:BA:828:U:O4'	2.19	0.43
31:BA:839:U:H2'	31:BA:840:C:C6	2.54	0.43
31:BA:1112:G:O2'	31:BA:1113:U:H5"	2.18	0.43
31:BA:1291:C:H2'	31:BA:1292:U:H6	1.84	0.43
31:BA:1509(A):A:C5	31:BA:1509(B):A:N7	2.87	0.43
31:BA:1994:C:O2'	31:BA:1995:U:H5'	2.19	0.43
31:BA:2360:A:O2'	31:BA:2361:A:OP2	2.36	0.43
31:BA:2404:C:C2'	31:BA:2405:G:H5"	2.48	0.43
31:BA:2467:C:O2'	31:BA:2468:G:H5'	2.18	0.43
32:BB:2:C:H2'	32:BB:3:C:C6	2.52	0.43
32:BB:21:G:O2'	32:BB:22:U:O4'	2.34	0.43
32:BB:21:G:C5	32:BB:63:G:C2	3.07	0.43
32:BB:79:C:H2'	32:BB:80:U:O4'	2.19	0.43
33:BD:36:PRO:HA	33:BD:62:TYR:O	2.18	0.43
37:BH:13:LYS:HA	37:BH:13:LYS:CE	2.42	0.43
37:BH:13:LYS:C	37:BH:15:VAL:H	2.27	0.43
37:BH:31:GLY:O	37:BH:79:VAL:HG11	2.18	0.43
39:BN:97:ARG:O	39:BN:98:VAL:C	2.60	0.43
40:BO:118:ALA:HA	40:BO:119:PRO:HD2	1.82	0.43
41:BP:125:VAL:O	41:BP:145:PRO:HD2	2.18	0.43
42:BQ:57:HIS:O	42:BQ:57:HIS:CG	2.71	0.43
42:BQ:72:LYS:HA	42:BQ:73:PRO:HD3	1.83	0.43
43:BR:37:THR:HG1	43:BR:40:LYS:HG3	1.82	0.43
45:BT:22:PHE:CE1	45:BT:52:ILE:HD11	2.53	0.43
47:BV:5:VAL:HG21	47:BV:36:PRO:HG2	2.00	0.43
47:BV:90:PRO:CD	47:BV:91:TYR:N	2.82	0.43
48:BW:13:SER:HB3	48:BW:16:LYS:HD3	2.01	0.43
50:BY:45:VAL:HG22	50:BY:62:GLU:CB	2.47	0.43
50:BY:88:LYS:O	50:BY:89:PHE:CB	2.67	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BZ:125:LEU:HD23	51:BZ:126:VAL:N	2.34	0.43
1:CA:299:G:C6	1:CA:300:A:N1	2.87	0.43
1:CA:895:G:H2'	1:CA:896:C:C6	2.53	0.43
1:CA:955:U:O2'	1:CA:956:U:H5'	2.18	0.43
1:CA:1116:C:C4	1:CA:1117:G:C8	3.06	0.43
1:CA:1190:G:OP1	3:CC:5:ILE:N	2.50	0.43
1:CA:1322:C:P	19:CS:78:ARG:HH22	2.41	0.43
3:CC:16:ARG:HA	3:CC:16:ARG:HH11	1.83	0.43
4:CD:92:VAL:HG12	4:CD:96:LEU:HD21	2.01	0.43
4:CD:101:LEU:C	4:CD:103:ASN:N	2.76	0.43
7:CG:27:ILE:HD11	7:CG:43:PHE:CG	2.53	0.43
7:CG:89:MET:HE1	7:CG:156:TRP:NE1	2.33	0.43
8:CH:36:LEU:HA	8:CH:39:LEU:HD23	2.00	0.43
9:CI:11:LYS:HG2	9:CI:11:LYS:O	2.19	0.43
10:CJ:62:HIS:CE1	14:CN:61:TRP:CH2	3.07	0.43
12:CL:104:VAL:HG12	12:CL:105:TYR:CD2	2.53	0.43
24:D2:41:ILE:HG21	31:DA:95:G:N2	2.28	0.43
24:D2:57:ILE:O	24:D2:57:ILE:HG23	2.19	0.43
27:D5:51:TYR:HB2	27:D5:54:GLY:HA3	2.00	0.43
29:D7:10:ARG:O	29:D7:14:LYS:HB2	2.18	0.43
31:DA:71:A:C5	31:DA:73:A:N1	2.87	0.43
31:DA:607:U:N3	31:DA:621:A:C2	2.74	0.43
31:DA:742:G:H2'	31:DA:743:G:H8	1.84	0.43
31:DA:954:G:C4	31:DA:955:C:C6	3.06	0.43
31:DA:1042:G:H5'	31:DA:1043:C:OP2	2.19	0.43
31:DA:1114:G:H2'	31:DA:1115:G:H5'	2.00	0.43
31:DA:1410:G:H2'	31:DA:1411:C:H6	1.83	0.43
31:DA:1501:C:H2'	31:DA:1502:C:H6	1.84	0.43
31:DA:1568:G:H5'	33:DD:60:ARG:HA	2.00	0.43
31:DA:1927:A:C2	31:DA:1928:A:C4	3.07	0.43
31:DA:2329:G:H2'	31:DA:2330:G:C8	2.54	0.43
31:DA:2450:A:C2	31:DA:2451:A:C4	3.07	0.43
31:DA:2702:U:O2'	31:DA:2703:C:C5	2.60	0.43
31:DA:2753:A:O2'	31:DA:2754:U:P	2.76	0.43
31:DA:2820:A:H2'	31:DA:2820:A:N3	2.34	0.43
33:DD:24:ILE:HA	33:DD:82:ILE:HG22	2.00	0.43
34:DE:61:ARG:H	34:DE:62:PRO:HD2	1.82	0.43
36:DG:57:ALA:O	36:DG:60:LEU:HB3	2.19	0.43
36:DG:71:THR:HB	36:DG:89:GLY:HA3	1.98	0.43
37:DH:103:LEU:HG	37:DH:104:GLU:N	2.34	0.43
38:DI:29:TYR:O	38:DI:32:PRO:HD2	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DN:119:ARG:HG3	39:DN:119:ARG:NH1	2.34	0.43
40:DO:47:ILE:HD12	40:DO:47:ILE:HA	1.64	0.43
41:DP:16:ARG:O	41:DP:18:ARG:N	2.52	0.43
41:DP:21:ARG:O	41:DP:21:ARG:CG	2.66	0.43
42:DQ:52:VAL:O	42:DQ:53:ALA:C	2.61	0.43
44:DS:102:ALA:CB	44:DS:103:GLU:HG2	2.49	0.43
45:DT:13:ARG:HA	45:DT:13:ARG:NE	2.34	0.43
45:DT:33:LYS:HA	45:DT:33:LYS:HZ2	1.83	0.43
46:DU:88:ILE:HA	46:DU:90:VAL:HG23	2.01	0.43
48:DW:30:GLU:O	48:DW:31:GLU:C	2.62	0.43
49:DX:82:GLN:HB3	49:DX:85:PRO:CG	2.38	0.43
51:DZ:29:TYR:HA	51:DZ:33:LEU:O	2.19	0.43
1:AA:352:C:H4'	1:AA:354:G:OP1	2.18	0.43
1:AA:438:G:H4'	4:AD:123:HIS:ND1	2.34	0.43
1:AA:763:G:C4	1:AA:764:C:C5	3.06	0.43
1:AA:1364:U:O2'	1:AA:1365:G:H5'	2.19	0.43
2:AB:149:LEU:HD22	2:AB:152:PHE:HB3	2.01	0.43
3:AC:6:HIS:NE2	3:AC:184:TYR:HE2	2.17	0.43
4:AD:163:GLU:C	4:AD:165:MET:N	2.75	0.43
5:AE:10:MET:HE2	5:AE:55:VAL:HG11	2.00	0.43
6:AF:97:PHE:HD2	18:AR:31:LEU:HD21	1.84	0.43
8:AH:10:LEU:HD23	8:AH:10:LEU:H	1.83	0.43
11:AK:95:ILE:CG2	11:AK:108:ILE:HD13	2.48	0.43
13:AM:108:ARG:NE	13:AM:114:ARG:HG2	2.33	0.43
15:AO:87:ILE:O	15:AO:88:ARG:HB2	2.17	0.43
25:B3:1:MET:HE2	25:B3:1:MET:HB3	1.89	0.43
29:B7:39:ARG:NH1	31:BA:469:G:C6	2.87	0.43
31:BA:34:C:H3'	31:BA:34:C:C6	2.51	0.43
31:BA:286:C:N4	31:BA:356:G:O6	2.51	0.43
31:BA:498:G:O2'	31:BA:499:U:H5'	2.19	0.43
31:BA:511:U:H5"	31:BA:512:G:OP2	2.19	0.43
31:BA:664:C:H4'	31:BA:941:A:OP1	2.19	0.43
31:BA:867:C:C6	31:BA:868:U:H5	2.36	0.43
31:BA:1206:G:C6	31:BA:1207:C:C4	3.07	0.43
31:BA:1356:G:C5	31:BA:1357:U:C5	3.07	0.43
31:BA:1475:G:H5'	31:BA:1476:C:OP2	2.19	0.43
31:BA:1836:C:O2'	31:BA:1837:C:H5'	2.18	0.43
31:BA:2352:A:H2'	31:BA:2353:G:H5'	2.00	0.43
31:BA:2557:G:H2'	31:BA:2558:C:C6	2.53	0.43
33:BD:36:PRO:C	33:BD:37:LEU:HD23	2.43	0.43
34:BE:37:ARG:HD2	34:BE:80:GLU:OE2	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BE:111:ARG:HD3	34:BE:160:TYR:CE1	2.53	0.43
35:BF:81:PRO:CB	35:BF:89:VAL:HG23	2.48	0.43
36:BG:36:LYS:O	36:BG:160:VAL:HG23	2.18	0.43
37:BH:103:LEU:HG	37:BH:104:GLU:N	2.34	0.43
39:BN:1:MET:O	39:BN:2:LYS:HG3	2.19	0.43
39:BN:78:TYR:H	39:BN:79:PRO:HD3	1.83	0.43
41:BP:96:THR:HB	41:BP:97:PRO:HD2	2.01	0.43
41:BP:100:LEU:HD12	41:BP:100:LEU:HA	1.69	0.43
44:BS:18:ILE:HG22	44:BS:19:LYS:H	1.84	0.43
46:BU:5:LYS:O	46:BU:6:THR:C	2.61	0.43
47:BV:26:ASP:C	47:BV:28:GLU:H	2.25	0.43
48:BW:55:ALA:O	48:BW:56:ALA:O	2.37	0.43
1:CA:110:C:O2'	16:CP:25:ARG:O	2.34	0.43
1:CA:270:A:C6	1:CA:271:C:C4	3.07	0.43
1:CA:309:G:O2'	1:CA:310:G:H5'	2.19	0.43
1:CA:353:A:H5'	1:CA:353:A:C8	2.46	0.43
1:CA:393:A:O2'	1:CA:394:G:H5'	2.18	0.43
1:CA:394:G:C4	1:CA:395:C:C5	3.06	0.43
1:CA:685:G:C2	1:CA:686:U:C5	3.07	0.43
1:CA:758:G:H4'	1:CA:880:C:H4'	2.01	0.43
1:CA:982:U:H5"	14:CN:6:LEU:CD1	2.49	0.43
1:CA:994:A:N6	1:CA:1046:A:C2	2.87	0.43
1:CA:1014:A:C2	19:CS:34:TRP:CE2	3.07	0.43
1:CA:1442(B):A:HO2'	1:CA:1443:G:H8	1.65	0.43
2:CB:134:GLU:O	2:CB:138:LEU:HD12	2.19	0.43
5:CE:14:ARG:O	5:CE:28:PHE:HA	2.19	0.43
8:CH:97:VAL:HA	8:CH:100:ILE:HG13	2.00	0.43
9:CI:48:GLU:N	9:CI:49:PRO:CD	2.82	0.43
15:CO:67:LEU:HD22	15:CO:78:TYR:CE1	2.46	0.43
16:CP:23:ASP:C	16:CP:25:ARG:H	2.27	0.43
17:CQ:59:ILE:HG21	17:CQ:71:PHE:HB3	1.99	0.43
18:CR:25:THR:HG22	18:CR:25:THR:O	2.19	0.43
19:CS:7:LYS:HD3	19:CS:7:LYS:N	2.33	0.43
23:D1:16:ASN:CB	23:D1:46:LEU:HG	2.48	0.43
28:D6:12:GLU:HB3	28:D6:23:THR:CB	2.48	0.43
30:D8:29:LYS:O	30:D8:31:HIS:N	2.52	0.43
30:D8:41:ILE:O	30:D8:42:ARG:C	2.62	0.43
30:D8:56:GLU:HA	30:D8:59:LYS:HZ2	1.84	0.43
31:DA:28:A:O2'	31:DA:583:G:H5'	2.19	0.43
31:DA:237:C:C2'	31:DA:238:C:H5'	2.49	0.43
31:DA:773:U:H2'	31:DA:774:A:H5'	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:784:A:C5	33:DD:229:VAL:HG21	2.53	0.43
31:DA:893:C:C2'	31:DA:894:C:O5'	2.67	0.43
31:DA:996:A:N3	31:DA:997:G:C8	2.87	0.43
31:DA:1027:A:N7	31:DA:1126:A:C2	2.87	0.43
31:DA:1339:G:H21	31:DA:1603:A:H1'	1.83	0.43
31:DA:1406:U:H2'	31:DA:1407:C:H6	1.83	0.43
31:DA:1857:G:H2'	31:DA:1858:G:C1'	2.47	0.43
31:DA:2536:G:C5	31:DA:2537:U:C4	3.06	0.43
31:DA:2564:A:C6	31:DA:2565:A:C6	3.07	0.43
31:DA:2811:G:OP1	34:DE:60:ASN:HB3	2.18	0.43
32:DB:39:A:N3	32:DB:39:A:H2'	2.33	0.43
33:DD:77:ALA:CB	33:DD:97:TYR:HA	2.48	0.43
33:DD:161:THR:O	33:DD:196:VAL:HG23	2.19	0.43
35:DF:5:ALA:C	35:DF:6:VAL:CG2	2.91	0.43
35:DF:55:GLY:C	35:DF:57:VAL:H	2.25	0.43
35:DF:203:GLN:C	35:DF:206:ILE:O	2.62	0.43
36:DG:19:LEU:HD22	36:DG:23:PHE:CE1	2.54	0.43
38:DI:5:LEU:HA	38:DI:5:LEU:HD23	1.74	0.43
38:DI:5:LEU:HD11	38:DI:19:VAL:HG11	1.99	0.43
41:DP:100:LEU:CD2	41:DP:112:LEU:HD11	2.49	0.43
44:DS:84:GLN:NE2	44:DS:105:ALA:HB1	2.34	0.43
46:DU:89:GLU:O	46:DU:90:VAL:O	2.37	0.43
47:DV:2:PHE:HB3	47:DV:3:ALA:H	1.46	0.43
47:DV:66:ARG:HH11	47:DV:66:ARG:HG2	1.83	0.43
47:DV:71:LEU:C	47:DV:72:VAL:HG23	2.44	0.43
48:DW:66:GLU:O	48:DW:69:LEU:HG	2.19	0.43
49:DX:67:GLY:C	49:DX:68:ARG:HG2	2.44	0.43
50:DY:91:GLU:HB3	50:DY:92:ASN:H	1.58	0.43
51:DZ:69:THR:HG22	51:DZ:90:VAL:CA	2.43	0.43
1:AA:50:A:N6	1:AA:361:G:H4'	2.33	0.43
1:AA:100:C:H2'	1:AA:101:A:O4'	2.19	0.43
1:AA:348:G:N2	1:AA:349:A:C4	2.87	0.43
1:AA:538:G:N2	1:AA:539:A:C4	2.87	0.43
1:AA:558:G:C4	1:AA:559:A:C2	3.07	0.43
1:AA:627:G:O2'	1:AA:628:G:H5'	2.18	0.43
1:AA:666:G:C2	1:AA:741:G:C4	3.06	0.43
1:AA:723:U:H6	1:AA:723:U:OP1	2.02	0.43
1:AA:769:G:H4'	1:AA:1513:A:H4'	2.00	0.43
1:AA:791:G:C5	1:AA:792:A:N7	2.87	0.43
1:AA:945:G:N1	1:AA:1337:G:C2	2.87	0.43
1:AA:1015:A:C6	1:AA:1016:A:C6	3.07	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.49	0.43
1:AA:1243:C:OP2	21:AU:10:ARG:CZ	2.67	0.43
2:AB:18:GLY:HA2	2:AB:42:ILE:HG22	2.01	0.43
5:AE:112:LEU:HD23	5:AE:112:LEU:H	1.83	0.43
8:AH:11:THR:HG22	8:AH:15:ASN:ND2	2.34	0.43
9:AI:114:TYR:CD1	10:AJ:60:ARG:HG2	2.52	0.43
15:AO:18:PHE:O	15:AO:18:PHE:CD1	2.72	0.43
20:AT:50:GLU:HB3	20:AT:100:ILE:HD13	2.01	0.43
20:AT:58:LYS:O	20:AT:62:LEU:HB2	2.18	0.43
31:BA:128:C:O2'	31:BA:129:C:P	2.77	0.43
31:BA:298:G:H8	31:BA:298:G:O5'	2.01	0.43
31:BA:671:C:H2'	31:BA:672:C:H6	1.83	0.43
31:BA:688:U:H5'	31:BA:1780:A:N1	2.34	0.43
31:BA:707:G:C6	31:BA:708:C:C4	3.06	0.43
31:BA:729:G:O5'	33:BD:208:LYS:NZ	2.48	0.43
31:BA:945:A:C6	31:BA:2448:A:C4	3.07	0.43
31:BA:996:A:H4'	46:BU:92:ARG:CD	2.49	0.43
31:BA:1502:C:O2'	31:BA:1503:U:H5'	2.19	0.43
31:BA:1826:G:H2'	31:BA:1827:C:H6	1.84	0.43
31:BA:1893:C:C5	31:BA:1894:C:C4	3.07	0.43
31:BA:1893:C:C6	31:BA:1894:C:C5	3.07	0.43
31:BA:2189:U:H2'	31:BA:2190:G:O4'	2.18	0.43
31:BA:2243:U:H2'	31:BA:2244:U:H6	1.81	0.43
31:BA:2306:C:OP2	31:BA:2307:G:C8	2.72	0.43
31:BA:2580:U:H5'	34:BE:131:ALA:CB	2.42	0.43
31:BA:2859:G:H2'	31:BA:2860:A:C8	2.54	0.43
32:BB:25:A:H2'	32:BB:26:A:O4'	2.18	0.43
32:BB:86:G:H8	32:BB:86:G:O5'	2.02	0.43
33:BD:85:ASP:OD1	33:BD:86:PRO:HD2	2.19	0.43
34:BE:73:GLU:CG	34:BE:74:PRO:HD2	2.43	0.43
34:BE:146:THR:HA	34:BE:147:PRO:C	2.44	0.43
35:BF:50:SER:HB2	35:BF:94:PRO:HD3	2.00	0.43
36:BG:19:LEU:HD22	36:BG:23:PHE:CE1	2.54	0.43
38:BI:117:GLU:HG3	38:BI:118:LYS:N	2.32	0.43
42:BQ:23:GLY:HA3	42:BQ:99:PRO:C	2.42	0.43
42:BQ:132:VAL:HG11	51:BZ:81:ARG:HD2	2.01	0.43
46:BU:47:TYR:HA	46:BU:50:ARG:HH22	1.84	0.43
46:BU:60:LEU:O	46:BU:61:TRP:C	2.62	0.43
50:BY:75:ILE:HD13	50:BY:80:GLY:O	2.19	0.43
51:BZ:5:LEU:HD21	51:BZ:43:GLU:HB3	2.00	0.43
1:CA:51:A:H4'	1:CA:52:G:C5'	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:116:A:OP2	1:CA:116:A:C8	2.72	0.43
1:CA:137:C:O2	1:CA:137:C:H2'	2.18	0.43
1:CA:303:A:C4	1:CA:304:U:C6	3.07	0.43
1:CA:452:A:O2'	1:CA:453:A:H8	2.02	0.43
1:CA:552:U:C2'	1:CA:553:A:H5'	2.49	0.43
1:CA:735:C:H5'	18:CR:71:LYS:HD3	2.01	0.43
1:CA:1320:C:H2'	1:CA:1321:C:O4'	2.18	0.43
2:CB:15:VAL:HG23	2:CB:16:HIS:CE1	2.53	0.43
2:CB:106:LYS:O	2:CB:110:GLN:HG3	2.19	0.43
4:CD:106:TYR:CE1	4:CD:112:VAL:O	2.70	0.43
4:CD:126:ILE:HG22	4:CD:127:THR:N	2.31	0.43
8:CH:41:ARG:O	8:CH:41:ARG:HG2	2.18	0.43
8:CH:80:ILE:O	8:CH:80:ILE:HG22	2.17	0.43
9:CI:65:VAL:HG21	9:CI:73:GLN:HB3	2.01	0.43
10:CJ:5:ARG:O	10:CJ:98:ILE:HA	2.19	0.43
15:CO:15:PHE:O	15:CO:16:ALA:C	2.62	0.43
18:CR:45:SER:CB	18:CR:51:LEU:HD21	2.44	0.43
18:CR:53:ARG:HH21	18:CR:60:ALA:H	1.66	0.43
20:CT:89:ARG:HD2	20:CT:104:LEU:HD21	2.01	0.43
22:D0:75:LEU:HD23	22:D0:75:LEU:HA	1.67	0.43
23:D1:27:GLU:OE2	23:D1:32:LYS:CB	2.60	0.43
25:D3:21:ALA:O	25:D3:24:LYS:N	2.51	0.43
27:D5:3:LYS:O	27:D5:4:HIS:C	2.62	0.43
31:DA:19:C:H2'	31:DA:20:C:C6	2.54	0.43
31:DA:118:A:C8	31:DA:119:A:C8	3.07	0.43
31:DA:271(M):G:C5	31:DA:271(O):C:C4	3.07	0.43
31:DA:271(X):G:C3'	31:DA:271(Y):U:H5"	2.49	0.43
31:DA:456:C:C5	49:DX:66:LEU:HD21	2.54	0.43
31:DA:602:G:H8	31:DA:602:G:OP2	2.02	0.43
31:DA:608:A:C4	31:DA:621:A:C6	3.07	0.43
31:DA:665:C:O2'	31:DA:666:G:H5'	2.19	0.43
31:DA:921:G:H4'	31:DA:2269:A:C5	2.54	0.43
31:DA:1012:U:O4	39:DN:25:ARG:HA	2.19	0.43
31:DA:1563:G:H2'	31:DA:1564:C:H6	1.84	0.43
31:DA:1719:G:C6	31:DA:1720:U:C4	3.07	0.43
31:DA:1856:G:H2'	31:DA:1857:G:H5'	2.01	0.43
31:DA:2482:G:C2	31:DA:2483:C:H1'	2.53	0.43
31:DA:2540:C:H2'	31:DA:2541:A:O4'	2.19	0.43
31:DA:2642:G:H5"	39:DN:78:TYR:CE1	2.54	0.43
31:DA:2747:G:C2	31:DA:2756:U:C5	3.06	0.43
32:DB:31:C:C2'	32:DB:32:C:H5'	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DB:57:A:C4	36:DG:29:TRP:HB2	2.54	0.43
33:DD:37:LEU:HD23	33:DD:37:LEU:N	2.34	0.43
34:DE:71:GLY:O	34:DE:72:VAL:HB	2.18	0.43
35:DF:81:PRO:C	35:DF:83:PHE:H	2.27	0.43
38:DI:14:ASP:O	38:DI:17:GLN:HB3	2.19	0.43
38:DI:110:ASP:C	38:DI:112:LYS:H	2.27	0.43
42:DQ:56:ARG:HD2	42:DQ:56:ARG:HA	1.60	0.43
42:DQ:141:GLN:C	51:DZ:53:ILE:C	2.86	0.43
43:DR:9:LYS:O	43:DR:10:LEU:HG	2.19	0.43
44:DS:16:ASN:ND2	44:DS:92:TYR:CZ	2.87	0.43
46:DU:39:LEU:HD23	46:DU:39:LEU:HA	1.77	0.43
46:DU:74:LEU:HD12	46:DU:74:LEU:N	2.33	0.43
51:DZ:117:LEU:HA	51:DZ:174:VAL:HA	2.01	0.43
1:AA:55:A:N7	1:AA:56:U:H5	2.17	0.43
1:AA:225:C:H2'	1:AA:226:G:H8	1.83	0.43
1:AA:635:G:H2'	1:AA:636:U:H6	1.84	0.43
1:AA:1084:G:OP1	1:AA:1086:U:C2	2.72	0.43
1:AA:1095:U:P	1:AA:1108:G:H1	2.42	0.43
1:AA:1116:C:C4	1:AA:1117:G:C8	3.07	0.43
1:AA:1121:U:H6	1:AA:1121:U:O5'	2.02	0.43
1:AA:1253:G:H2'	1:AA:1254:C:O4'	2.19	0.43
2:AB:29:ALA:O	2:AB:31:TYR:N	2.52	0.43
2:AB:233:SER:HB2	2:AB:234:PRO:HD2	1.99	0.43
3:AC:180:ALA:O	3:AC:181:ASN:C	2.62	0.43
4:AD:79:PHE:CD1	4:AD:207:TYR:HD1	2.37	0.43
7:AG:113:GLU:CB	7:AG:119:ARG:HG2	2.40	0.43
9:AI:112:LYS:HG2	9:AI:119:ALA:H	1.83	0.43
9:AI:113:LYS:O	9:AI:116:LYS:HB2	2.19	0.43
10:AJ:80:LYS:HB2	10:AJ:80:LYS:NZ	2.34	0.43
13:AM:106:ASN:O	13:AM:107:ALA:CB	2.65	0.43
15:AO:9:GLN:O	15:AO:10:LYS:C	2.61	0.43
17:AQ:92:ARG:HG2	17:AQ:93:GLN:N	2.33	0.43
18:AR:44:LEU:HA	18:AR:49:LYS:O	2.18	0.43
27:B5:43:HIS:CD2	31:BA:2815:C:O2'	2.71	0.43
27:B5:55:ARG:HD3	27:B5:55:ARG:HA	1.46	0.43
28:B6:16:CYS:HB2	28:B6:18:ARG:NH2	2.33	0.43
29:B7:38:GLY:O	29:B7:39:ARG:C	2.62	0.43
31:BA:154:G:H8	31:BA:154:G:O5'	2.02	0.43
31:BA:282:A:C8	31:BA:284:U:C4	3.07	0.43
31:BA:769:G:O2'	31:BA:770:G:H5'	2.17	0.43
31:BA:780:G:C2	31:BA:782:A:C2	3.07	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:975:C:O2	31:BA:975:C:H2'	2.19	0.43
31:BA:1000:A:C6	31:BA:1001:A:C6	3.07	0.43
31:BA:1478:G:H2'	31:BA:1479:G:H5'	2.00	0.43
31:BA:1662:C:O2'	31:BA:1663:C:H5'	2.18	0.43
31:BA:1665:A:C4'	40:BO:67:LYS:HB2	2.49	0.43
31:BA:1717:G:C4	31:BA:1718:G:C8	3.07	0.43
31:BA:2392:A:N3	31:BA:2392:A:O4'	2.51	0.43
31:BA:2776:A:H4'	31:BA:2778:A:OP1	2.19	0.43
31:BA:2808:U:H2'	31:BA:2809:A:C5'	2.49	0.43
34:BE:56:PRO:O	34:BE:57:LYS:C	2.61	0.43
36:BG:64:THR:CG2	36:BG:65:GLY:H	2.32	0.43
39:BN:1:MET:CB	47:BV:20:LEU:HD22	2.47	0.43
39:BN:86:PRO:O	39:BN:89:LYS:HB2	2.19	0.43
39:BN:108:PRO:O	39:BN:113:GLY:HA3	2.19	0.43
41:BP:35:HIS:O	41:BP:36:LYS:CG	2.65	0.43
41:BP:106:LEU:HD12	41:BP:106:LEU:HA	1.80	0.43
42:BQ:46:GLN:HE22	42:BQ:126:PRO:HG3	1.83	0.43
42:BQ:121:ALA:O	42:BQ:124:LYS:N	2.48	0.43
44:BS:54:LEU:HD22	44:BS:58:LEU:O	2.18	0.43
47:BV:4:ILE:HD12	47:BV:40:LEU:HG	2.00	0.43
48:BW:36:LEU:O	48:BW:37:ARG:C	2.62	0.43
1:CA:283:C:H2'	1:CA:284:G:O4'	2.18	0.43
1:CA:825:G:C6	1:CA:826:C:C4	3.07	0.43
1:CA:987:G:N2	1:CA:1219:U:N3	2.67	0.43
1:CA:1037:C:C4	1:CA:1038:C:C4	3.07	0.43
1:CA:1054:C:C2'	1:CA:1055:A:H5"	2.49	0.43
1:CA:1095:U:P	1:CA:1108:G:H1	2.42	0.43
1:CA:1121:U:O5'	1:CA:1121:U:H6	2.02	0.43
1:CA:1159:U:C5	1:CA:1182:G:C4	3.07	0.43
1:CA:1308:U:H2'	1:CA:1309:G:H8	1.84	0.43
2:CB:142:LEU:HD23	2:CB:142:LEU:C	2.43	0.43
2:CB:203:GLY:O	2:CB:204:ASN:C	2.62	0.43
4:CD:108:LEU:O	4:CD:110:PHE:CD1	2.72	0.43
6:CF:14:LEU:HD22	6:CF:18:GLN:NE2	2.34	0.43
6:CF:72:VAL:HG13	6:CF:73:ASN:N	2.33	0.43
8:CH:24:THR:HG22	8:CH:25:ASP:H	1.84	0.43
8:CH:73:ASP:C	8:CH:75:ARG:H	2.27	0.43
11:CK:18:ARG:HB3	11:CK:33:THR:OG1	2.19	0.43
16:CP:43:LYS:CG	16:CP:48:TRP:CE3	3.02	0.43
20:CT:13:LEU:H	20:CT:13:LEU:CD1	2.14	0.43
20:CT:26:ASN:HD22	20:CT:27:LYS:N	2.16	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:D0:55:ARG:HE	22:D0:55:ARG:HB3	1.38	0.43
23:D1:26:ARG:CB	23:D1:34:THR:HB	2.49	0.43
24:D2:23:LYS:HB2	49:DX:5:TYR:CE1	2.54	0.43
24:D2:45:SER:CB	24:D2:48:HIS:HB3	2.49	0.43
28:D6:28:ARG:CA	28:D6:32:ASN:HB3	2.49	0.43
29:D7:5:TRP:CH2	31:DA:686:G:N7	2.87	0.43
29:D7:12:ARG:HG3	31:DA:686:G:O6	2.19	0.43
31:DA:28:A:C5	31:DA:29:U:C5	3.06	0.43
31:DA:237:C:O2'	31:DA:238:C:H5'	2.19	0.43
31:DA:271(F):C:H6	31:DA:271(F):C:O5'	1.99	0.43
31:DA:405:U:O2	31:DA:405:U:H2'	2.18	0.43
31:DA:610:G:H2'	31:DA:611:C:C6	2.54	0.43
31:DA:765:G:H2'	31:DA:766:C:C6	2.53	0.43
31:DA:1153:C:OP1	46:DU:93:LYS:NZ	2.52	0.43
31:DA:1373:A:N6	31:DA:1374:G:C2	2.87	0.43
31:DA:1589:C:H2'	31:DA:1590:U:H6	1.84	0.43
31:DA:1598:C:H2'	31:DA:1599:C:C6	2.46	0.43
31:DA:1784:A:C4'	31:DA:1785:A:H5"	2.47	0.43
31:DA:2092:U:H5	31:DA:2226:C:OP1	2.02	0.43
31:DA:2465:C:C2'	31:DA:2466:C:H5'	2.49	0.43
31:DA:2711:A:OP1	31:DA:2712(A):A:OP1	2.37	0.43
32:DB:107:G:C2'	32:DB:108:U:H5'	2.49	0.43
33:DD:35:LYS:CE	33:DD:64:ILE:C	2.92	0.43
33:DD:79:VAL:HG21	33:DD:111:LEU:HD11	2.00	0.43
33:DD:158:ALA:O	33:DD:159:ALA:HB2	2.17	0.43
34:DE:36:ARG:HH11	34:DE:85:ASN:HD21	1.67	0.43
34:DE:203:LYS:O	34:DE:203:LYS:CD	2.64	0.43
36:DG:15:VAL:HG13	36:DG:175:LEU:CD1	2.49	0.43
37:DH:140:LYS:O	37:DH:141:VAL:C	2.62	0.43
40:DO:14:THR:CG2	40:DO:52:VAL:HG21	2.49	0.43
40:DO:29:ASN:N	40:DO:29:ASN:ND2	2.66	0.43
41:DP:39:LYS:HZ2	41:DP:39:LYS:HG2	1.61	0.43
42:DQ:74:TYR:O	42:DQ:89:ASN:N	2.52	0.43
45:DT:29:ARG:HD2	45:DT:29:ARG:HA	1.88	0.43
47:DV:15:GLU:OE2	47:DV:16:PRO:HD2	2.19	0.43
48:DW:107:LEU:N	48:DW:107:LEU:HD13	2.34	0.43
50:DY:96:ILE:CG2	50:DY:97:ARG:N	2.81	0.43
51:DZ:126:VAL:HG12	51:DZ:163:LEU:HA	2.00	0.43
51:DZ:151:HIS:N	51:DZ:151:HIS:HD2	2.09	0.43
1:AA:103:C:OP2	20:AT:14:LYS:HD3	2.19	0.42
1:AA:224:C:C2	1:AA:225:C:C5	3.07	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:363:A:OP2	12:AL:61:THR:HG21	2.18	0.42
1:AA:392:G:C4	1:AA:393:A:C8	3.07	0.42
1:AA:407:G:O2'	4:AD:116:GLN:CG	2.68	0.42
1:AA:577:G:N3	1:AA:578:C:C6	2.87	0.42
1:AA:1127:G:C2'	1:AA:1147:C:H42	2.32	0.42
1:AA:1293:G:HO2'	1:AA:1294:G:P	2.42	0.42
1:AA:1423:G:H5"	40:BO:49:ARG:HH21	1.83	0.42
6:AF:1:MET:HE2	6:AF:1:MET:N	2.34	0.42
7:AG:26:PHE:CG	7:AG:62:PHE:HE1	2.37	0.42
8:AH:58:TYR:C	8:AH:59:LEU:HD23	2.44	0.42
18:AR:62:GLU:HA	18:AR:65:ILE:HD12	2.00	0.42
23:B1:18:ILE:HD12	23:B1:18:ILE:N	2.33	0.42
23:B1:37:ILE:O	23:B1:37:ILE:HG23	2.14	0.42
23:B1:64:ALA:HA	23:B1:67:ILE:HG13	1.99	0.42
24:B2:54:LYS:N	24:B2:56:GLN:HE21	2.15	0.42
26:B4:1:MET:CB	32:BB:43:C:H5'	2.48	0.42
27:B5:49:CYS:O	27:B5:50:GLY:C	2.62	0.42
28:B6:15:GLU:HB3	28:B6:18:ARG:CG	2.45	0.42
28:B6:32:ASN:O	28:B6:33:LYS:CB	2.67	0.42
29:B7:5:TRP:CZ3	31:BA:464:U:H4'	2.54	0.42
30:B8:23:VAL:CG1	30:B8:46:ARG:HD3	2.48	0.42
30:B8:50:LEU:C	30:B8:52:LYS:N	2.77	0.42
31:BA:7:G:H1	31:BA:2896:C:N4	2.15	0.42
31:BA:19:C:H2'	31:BA:20:C:H6	1.84	0.42
31:BA:150:C:H42	31:BA:176:G:H1	1.67	0.42
31:BA:196:A:O2'	31:BA:805:G:O6	2.31	0.42
31:BA:256:A:O2'	31:BA:257:A:H5'	2.19	0.42
31:BA:266:G:N2	31:BA:427:U:H1'	2.34	0.42
31:BA:452:G:N3	31:BA:457:A:H2	2.17	0.42
31:BA:477:A:O2'	31:BA:478:A:H5'	2.19	0.42
31:BA:536:A:H2'	31:BA:537:C:O5'	2.19	0.42
31:BA:733:G:H8	31:BA:733:G:O5'	2.02	0.42
31:BA:744:G:OP1	34:BE:132:HIS:HB3	2.19	0.42
31:BA:824:A:C2'	31:BA:825:C:H5'	2.48	0.42
31:BA:892:G:N3	31:BA:893:C:H5"	2.34	0.42
31:BA:910:A:C6	42:BQ:13:GLN:HG3	2.54	0.42
31:BA:958:U:C2'	31:BA:959:A:OP1	2.67	0.42
31:BA:1177:A:H5'	31:BA:1178:C:O4'	2.19	0.42
31:BA:1557:C:H5"	31:BA:1558:A:OP2	2.19	0.42
31:BA:1771:C:C1'	31:BA:1786:A:H8	2.32	0.42
31:BA:2017:U:H5"	31:BA:2018:G:P	2.58	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2536:G:C5	31:BA:2537:U:C5	3.07	0.42
31:BA:2544:G:O2'	31:BA:2545:G:H5'	2.19	0.42
31:BA:2741:A:H2'	31:BA:2742:C:O4'	2.18	0.42
35:BF:18:ARG:NH1	35:BF:199:TRP:HZ3	2.17	0.42
35:BF:89:VAL:O	35:BF:91:GLY:N	2.50	0.42
36:BG:33:ARG:HD3	36:BG:162:THR:HG21	2.01	0.42
37:BH:157:TYR:CD1	37:BH:171:LEU:N	2.86	0.42
39:BN:34:LEU:O	39:BN:49:GLY:HA3	2.19	0.42
39:BN:66:LYS:HB3	39:BN:70:LYS:HB3	2.01	0.42
44:BS:102:ALA:HB3	44:BS:103:GLU:HG2	2.01	0.42
45:BT:50:ILE:HD11	45:BT:102:ILE:HD11	2.01	0.42
46:BU:22:LYS:HA	46:BU:22:LYS:HD3	1.58	0.42
46:BU:88:ILE:O	46:BU:88:ILE:CD1	2.67	0.42
51:BZ:53:ILE:HG21	51:BZ:71:VAL:HB	1.98	0.42
1:CA:191:G:N2	20:CT:103:GLY:O	2.52	0.42
1:CA:357:G:C2'	1:CA:358:U:H5'	2.49	0.42
1:CA:515:G:H2'	1:CA:516:U:O4'	2.19	0.42
1:CA:539:A:OP1	12:CL:114:LYS:HE2	2.19	0.42
1:CA:754:C:H3'	1:CA:754:C:O2	2.18	0.42
1:CA:1210:C:H4'	1:CA:1214:C:C4	2.53	0.42
1:CA:1250:A:C6	1:CA:1251:A:C6	3.07	0.42
1:CA:1298:C:H4'	1:CA:1299:A:C4	2.54	0.42
1:CA:1299:A:C5	1:CA:1301:U:O2	2.72	0.42
2:CB:19:HIS:O	2:CB:20:GLU:O	2.36	0.42
3:CC:142:MET:HE1	3:CC:147:LYS:C	2.44	0.42
7:CG:18:TYR:CD2	7:CG:59:LEU:HD13	2.54	0.42
13:CM:17:VAL:O	13:CM:20:THR:HB	2.19	0.42
15:CO:18:PHE:O	15:CO:18:PHE:CD1	2.72	0.42
23:D1:79:GLY:O	23:D1:80:LEU:HD23	2.18	0.42
25:D3:24:LYS:HD3	31:DA:931:G:O2'	2.20	0.42
31:DA:247:G:H4'	31:DA:386:G:C6	2.54	0.42
31:DA:357:A:C2	31:DA:358:U:O2	2.72	0.42
31:DA:620:G:H4'	31:DA:621:A:C5'	2.47	0.42
31:DA:1510:G:C2	31:DA:1511:C:C2	3.06	0.42
31:DA:1638:C:H4'	31:DA:2710:C:O2	2.19	0.42
31:DA:1711:C:O2'	31:DA:1712:C:H5'	2.18	0.42
31:DA:1803:A:HO2'	33:DD:259:THR:HG21	1.81	0.42
31:DA:1820:U:H3'	31:DA:1821:A:C5'	2.49	0.42
31:DA:1987:G:H2'	31:DA:1988:C:H6	1.84	0.42
31:DA:2027:G:C6	31:DA:2028:U:C4	3.07	0.42
31:DA:2085:C:H2'	31:DA:2086:U:O4'	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2309:A:N3	31:DA:2310:A:H2	2.17	0.42
31:DA:2461:C:H2'	31:DA:2462:U:C6	2.54	0.42
31:DA:2471:C:C3'	31:DA:2472:G:H5"	2.45	0.42
31:DA:2591:C:H2'	31:DA:2592:G:C8	2.54	0.42
31:DA:2663:G:C5	31:DA:2664:G:C5	3.07	0.42
31:DA:2703:C:H2'	31:DA:2704:C:C6	2.53	0.42
31:DA:2738:A:C2	31:DA:2739:U:H1'	2.54	0.42
31:DA:2809:A:C2	31:DA:2892:A:N3	2.87	0.42
35:DF:119:ARG:HG2	35:DF:119:ARG:O	2.18	0.42
36:DG:13:GLU:O	36:DG:13:GLU:HG3	2.19	0.42
36:DG:33:ARG:HD3	36:DG:162:THR:HG21	2.01	0.42
36:DG:110:ALA:HA	36:DG:140:ILE:O	2.19	0.42
36:DG:125:PHE:CB	36:DG:166:ASP:HB2	2.49	0.42
36:DG:128:ARG:O	36:DG:129:GLY:O	2.37	0.42
37:DH:109:PHE:C	37:DH:111:HIS:N	2.76	0.42
38:DI:71:ILE:HG13	38:DI:72:LEU:CD2	2.49	0.42
38:DI:88:ILE:HG13	38:DI:122:GLU:C	2.43	0.42
39:DN:63:THR:HB	39:DN:64:GLY:H	1.58	0.42
43:DR:50:HIS:O	43:DR:54:LEU:HD13	2.18	0.42
44:DS:42:ASP:O	44:DS:43:GLU:HB2	2.18	0.42
45:DT:28:VAL:HG11	45:DT:46:GLU:OE1	2.19	0.42
49:DX:60:ARG:HG2	49:DX:72:LYS:N	2.34	0.42
50:DY:2:ARG:O	50:DY:4:LYS:N	2.52	0.42
1:AA:286:G:C5	1:AA:287:U:C5	3.07	0.42
1:AA:309:G:O2'	1:AA:310:G:H5'	2.18	0.42
1:AA:862:C:O2'	1:AA:863:U:H5'	2.18	0.42
1:AA:982:U:H4'	1:AA:983:A:O5'	2.19	0.42
1:AA:1053:G:H3'	1:AA:1054:C:H5'	2.00	0.42
1:AA:1126:U:C2'	1:AA:1127:G:O5'	2.66	0.42
1:AA:1150:U:C5	1:AA:1151:A:N7	2.87	0.42
1:AA:1452:C:C5'	1:AA:1456:G:C4	2.97	0.42
4:AD:153:ARG:HG2	4:AD:181:MET:SD	2.59	0.42
6:AF:67:MET:CB	6:AF:68:PRO:HD2	2.46	0.42
8:AH:8:ASP:O	8:AH:11:THR:N	2.52	0.42
13:AM:66:LEU:H	13:AM:66:LEU:CD1	2.23	0.42
17:AQ:14:LYS:HZ2	17:AQ:14:LYS:N	2.17	0.42
20:AT:79:ARG:HA	20:AT:82:SER:OG	2.19	0.42
27:B5:56:LYS:HE3	27:B5:59:GLU:OE1	2.20	0.42
29:B7:5:TRP:O	31:BA:1612:C:H4'	2.19	0.42
30:B8:14:VAL:CG1	30:B8:22:VAL:HG13	2.50	0.42
30:B8:19:SER:OG	30:B8:21:LYS:HD2	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:105:C:H2'	31:BA:106:C:H6	1.84	0.42
31:BA:271(T):C:C2	31:BA:271(U):G:C8	3.07	0.42
31:BA:292:C:C2	31:BA:349:G:C2	3.07	0.42
31:BA:511:U:C5	31:BA:512:G:C5	3.07	0.42
31:BA:610:G:H2'	31:BA:611:C:C6	2.54	0.42
31:BA:847:U:H5	31:BA:933:A:H62	1.62	0.42
31:BA:1190:G:C5'	41:BP:35:HIS:CB	2.94	0.42
31:BA:1386:C:H2'	31:BA:1387:C:C6	2.54	0.42
31:BA:1416:G:O2'	31:BA:1417:C:OP2	2.36	0.42
31:BA:1495:A:C5'	31:BA:1496:A:OP2	2.67	0.42
31:BA:1495:A:H5"	31:BA:1496:A:OP2	2.18	0.42
31:BA:1582:C:O2'	31:BA:1586:A:H8	1.99	0.42
31:BA:1834:U:O2	31:BA:1834:U:H2'	2.19	0.42
31:BA:2494:G:C5	31:BA:2495:G:N7	2.87	0.42
31:BA:2758:A:C3'	31:BA:2759:G:C5'	2.97	0.42
31:BA:2779:U:O2	31:BA:2779:U:O4'	2.33	0.42
33:BD:25:THR:HG22	33:BD:82:ILE:C	2.43	0.42
33:BD:94:LEU:HD22	33:BD:95:LEU:N	2.34	0.42
34:BE:134:ILE:HB	34:BE:137:HIS:HB2	2.02	0.42
35:BF:160:ASN:ND2	35:BF:162:LEU:HB2	2.29	0.42
37:BH:41:MET:SD	37:BH:54:ARG:HA	2.58	0.42
40:BO:77:ILE:CD1	45:BT:74:ARG:HG2	2.49	0.42
42:BQ:76:LYS:H	42:BQ:88:GLY:HA2	1.84	0.42
42:BQ:83:MET:CG	42:BQ:83:MET:O	2.62	0.42
43:BR:3:HIS:O	43:BR:4:LEU:CB	2.67	0.42
45:BT:22:PHE:CE2	45:BT:85:LYS:NZ	2.86	0.42
45:BT:28:VAL:HG13	45:BT:46:GLU:CB	2.49	0.42
45:BT:30:VAL:O	45:BT:30:VAL:CG2	2.61	0.42
46:BU:88:ILE:HA	46:BU:90:VAL:HG23	2.00	0.42
51:BZ:99:TYR:HB3	51:BZ:123:ASP:OD1	2.18	0.42
1:CA:35:G:H2'	1:CA:36:C:H6	1.79	0.42
1:CA:69:G:C2	1:CA:70:G:N7	2.86	0.42
1:CA:304:U:C2	1:CA:305:G:N7	2.87	0.42
1:CA:509:A:O2'	1:CA:510:A:C5'	2.67	0.42
1:CA:635:G:H2'	1:CA:636:U:H6	1.84	0.42
1:CA:671:G:C4	1:CA:672:U:C6	3.07	0.42
1:CA:807:A:H2'	1:CA:808:C:C6	2.54	0.42
1:CA:872:A:C5	1:CA:874:G:C8	3.07	0.42
1:CA:985:C:O5'	1:CA:985:C:H6	2.02	0.42
1:CA:1053:G:C3'	1:CA:1054:C:H5'	2.49	0.42
1:CA:1053:G:H3'	1:CA:1054:C:H5'	2.00	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1097:C:O2'	1:CA:1098:C:H5'	2.19	0.42
1:CA:1117:G:H4'	9:CI:104:ARG:NH1	2.34	0.42
1:CA:1218:C:H2'	1:CA:1219:U:C5	2.54	0.42
1:CA:1281:U:H5'	1:CA:1282:C:H5	1.84	0.42
5:CE:12:LEU:HD22	5:CE:13:ILE:N	2.34	0.42
7:CG:26:PHE:HB2	7:CG:62:PHE:HZ	1.85	0.42
7:CG:87:VAL:HA	7:CG:88:PRO:HD3	1.90	0.42
8:CH:1:MET:O	8:CH:2:LEU:O	2.37	0.42
8:CH:7:ALA:HB2	8:CH:85:ARG:HD2	2.01	0.42
8:CH:116:LYS:O	8:CH:119:LEU:HD21	2.19	0.42
9:CI:55:ALA:CB	9:CI:58:ARG:HD2	2.49	0.42
12:CL:25:PRO:C	12:CL:27:LEU:N	2.75	0.42
12:CL:76:ASN:O	12:CL:76:ASN:CG	2.61	0.42
16:CP:58:TYR:O	16:CP:61:SER:N	2.53	0.42
18:CR:65:ILE:H	18:CR:65:ILE:HG13	1.36	0.42
18:CR:86:VAL:O	18:CR:87:ARG:HB3	2.17	0.42
20:CT:26:ASN:HA	20:CT:29:LYS:HG2	2.01	0.42
20:CT:76:ALA:O	20:CT:77:ALA:C	2.62	0.42
22:D0:2:ALA:H	31:DA:2602:A:N6	2.16	0.42
31:DA:306:U:H2'	31:DA:307:G:O4'	2.19	0.42
31:DA:639:U:C2	31:DA:640:C:C5	3.07	0.42
31:DA:764:A:O4'	33:DD:213:ARG:HG3	2.19	0.42
31:DA:810:U:O2'	41:DP:33:ARG:CZ	2.67	0.42
31:DA:1016:G:C2'	31:DA:1017:G:O5'	2.67	0.42
31:DA:1115:G:H2'	31:DA:1116:C:O4'	2.18	0.42
31:DA:1397:U:O2'	31:DA:1398:C:P	2.77	0.42
31:DA:1429:G:H2'	31:DA:1430:C:H6	1.82	0.42
31:DA:1880:C:C5'	31:DA:1880:C:C6	2.95	0.42
31:DA:2412:A:H2'	31:DA:2413:G:O4'	2.19	0.42
31:DA:2661:G:O2'	31:DA:2662:A:OP1	2.33	0.42
31:DA:2801(A):A:O4'	31:DA:2802:G:H2'	2.19	0.42
32:DB:27:C:C4	32:DB:28:C:C5	3.07	0.42
32:DB:27:C:C5	32:DB:28:C:C5	3.07	0.42
32:DB:50:G:OP1	44:DS:63:THR:HG23	2.19	0.42
32:DB:69:G:C5	32:DB:70:C:C5	3.07	0.42
32:DB:93:G:OP1	51:DZ:79:ARG:NH1	2.53	0.42
33:DD:16:MET:HB2	33:DD:207:GLY:CA	2.43	0.42
33:DD:43:ARG:NH1	33:DD:44:ASN:CG	2.74	0.42
34:DE:1:MET:HE2	34:DE:1:MET:H1	1.82	0.42
34:DE:52:LEU:HD12	34:DE:52:LEU:HA	1.48	0.42
34:DE:75:VAL:O	34:DE:77:ILE:CA	2.67	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DF:136:THR:O	35:DF:137:LYS:C	2.62	0.42
35:DF:200:GLU:O	35:DF:204:ASN:HB2	2.19	0.42
36:DG:64:THR:HG23	36:DG:65:GLY:H	1.84	0.42
37:DH:41:MET:SD	37:DH:54:ARG:HA	2.59	0.42
38:DI:57:ARG:C	38:DI:59:ALA:N	2.78	0.42
39:DN:57:ALA:O	39:DN:59:LYS:HB2	2.19	0.42
40:DO:6:THR:CG2	40:DO:7:TYR:N	2.82	0.42
40:DO:34:THR:O	40:DO:35:VAL:C	2.59	0.42
41:DP:56:SER:O	41:DP:57:THR:C	2.61	0.42
42:DQ:31:ASP:O	42:DQ:133:ARG:O	2.36	0.42
43:DR:56:LYS:HE3	43:DR:94:TYR:CZ	2.53	0.42
46:DU:66:ASN:HD21	46:DU:70:ARG:HH21	1.68	0.42
47:DV:53:GLU:C	47:DV:55:ALA:H	2.27	0.42
51:DZ:145:GLU:HG3	51:DZ:146:ILE:H	1.84	0.42
1:AA:286:G:C6	1:AA:287:U:C4	3.07	0.42
1:AA:518:C:H2'	1:AA:530:G:N3	2.35	0.42
1:AA:600:C:N3	1:AA:639:G:C2	2.87	0.42
1:AA:603:U:O2'	1:AA:604:G:H5'	2.19	0.42
1:AA:617:G:C6	1:AA:618:C:C4	3.07	0.42
1:AA:1206:G:C6	1:AA:1207:G:C6	3.07	0.42
3:AC:29:TYR:CD2	3:AC:29:TYR:C	2.97	0.42
4:AD:3:ARG:HD3	4:AD:5:ILE:HD11	1.99	0.42
4:AD:150:GLU:HG2	4:AD:151:LYS:N	2.32	0.42
7:AG:89:MET:HE1	7:AG:156:TRP:NE1	2.34	0.42
7:AG:149:ARG:HG2	7:AG:149:ARG:O	2.20	0.42
8:AH:58:TYR:N	8:AH:58:TYR:CD1	2.87	0.42
8:AH:86:ILE:HG12	8:AH:135:CYS:HA	2.00	0.42
9:AI:53:VAL:C	9:AI:54:ASP:HB2	2.44	0.42
9:AI:114:TYR:CD2	9:AI:114:TYR:O	2.72	0.42
13:AM:71:ARG:O	13:AM:71:ARG:HG3	2.19	0.42
27:B5:32:PRO:O	27:B5:38:ALA:O	2.36	0.42
30:B8:7:HIS:CD2	41:BP:50:ARG:HD3	2.54	0.42
31:BA:323:G:H1'	31:BA:1205:U:O2	2.19	0.42
31:BA:459:U:O2'	31:BA:460:A:H5'	2.19	0.42
31:BA:1319:G:C6	31:BA:1320:C:N4	2.87	0.42
31:BA:1705:G:C5	31:BA:1706:U:C4	3.07	0.42
31:BA:1783:A:C2	31:BA:2587:A:C5	3.07	0.42
31:BA:2208:A:H1'	31:BA:2219:G:C6	2.54	0.42
31:BA:2570:G:H2'	31:BA:2571:C:O4'	2.19	0.42
31:BA:2762:G:H5'	31:BA:2762:G:C8	2.48	0.42
34:BE:50:GLY:HA3	34:BE:74:PRO:HG3	2.00	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BF:13:SER:HA	35:BF:14:PRO:HD3	1.79	0.42
35:BF:108:LYS:HA	35:BF:108:LYS:HD3	1.79	0.42
35:BF:117:ARG:HG2	35:BF:192:LEU:HB2	2.01	0.42
36:BG:105:LYS:HB2	36:BG:105:LYS:HZ3	1.81	0.42
37:BH:30:LYS:HG2	37:BH:79:VAL:O	2.19	0.42
37:BH:92:ILE:C	37:BH:94:TYR:N	2.74	0.42
44:BS:13:ARG:H	44:BS:13:ARG:HG2	1.47	0.42
44:BS:17:ARG:O	44:BS:18:ILE:HB	2.20	0.42
45:BT:65:LYS:CG	45:BT:66:VAL:N	2.82	0.42
45:BT:67:SER:N	45:BT:70:VAL:O	2.53	0.42
47:BV:79:VAL:O	47:BV:80:GLN:CB	2.42	0.42
50:BY:8:LYS:HE3	50:BY:72:VAL:HG23	1.94	0.42
51:BZ:145:GLU:C	51:BZ:147:GLY:N	2.73	0.42
1:CA:189(F):U:C4	17:CQ:72:ARG:NH2	2.87	0.42
1:CA:973:G:N3	10:CJ:55:LYS:HE2	2.35	0.42
1:CA:1068:G:N7	1:CA:1094:G:C8	2.87	0.42
1:CA:1107:C:C4	1:CA:1108:G:C8	3.08	0.42
1:CA:1362:C:O2'	1:CA:1363:C:H5"	2.19	0.42
2:CB:193:ASP:OD2	2:CB:193:ASP:O	2.36	0.42
3:CC:35:GLU:HA	3:CC:38:ARG:HG2	2.00	0.42
4:CD:79:PHE:CD1	4:CD:207:TYR:CD1	3.08	0.42
7:CG:78:ARG:HB3	7:CG:87:VAL:HG23	2.00	0.42
9:CI:36:TYR:CE1	9:CI:70:LYS:NZ	2.87	0.42
11:CK:95:ILE:CG2	11:CK:108:ILE:HD13	2.49	0.42
11:CK:125:PHE:N	11:CK:125:PHE:HD1	2.17	0.42
12:CL:33:ARG:CG	12:CL:60:LEU:HD12	2.49	0.42
15:CO:42:HIS:ND1	15:CO:42:HIS:C	2.76	0.42
16:CP:8:ARG:HG2	16:CP:9:PHE:H	1.84	0.42
16:CP:53:VAL:CG1	16:CP:79:VAL:HG22	2.48	0.42
18:CR:61:LYS:O	18:CR:65:ILE:HG13	2.19	0.42
22:D0:24:LYS:HG3	22:D0:36:ILE:HD11	2.00	0.42
23:D1:87:PRO:CG	23:D1:88:LYS:N	2.82	0.42
24:D2:15:LYS:O	24:D2:15:LYS:HG2	2.20	0.42
31:DA:71:A:C2	49:DX:31:HIS:CE1	2.97	0.42
31:DA:464:U:C2	31:DA:788:A:C6	3.08	0.42
31:DA:1185:C:H5"	31:DA:1186:G:P	2.59	0.42
31:DA:1318:C:H42	31:DA:1334:G:H1	1.67	0.42
31:DA:1825:A:H2'	31:DA:1826:G:C8	2.54	0.42
31:DA:1971:A:H2'	31:DA:1972:A:OP1	2.19	0.42
31:DA:2018:G:H2'	31:DA:2019:A:C8	2.54	0.42
31:DA:2100:G:O6	31:DA:2189:U:O4	2.37	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2584:U:O2	31:DA:2584:U:O5'	2.35	0.42
31:DA:2649:U:H2'	31:DA:2650:U:C6	2.54	0.42
33:DD:35:LYS:HG2	33:DD:64:ILE:HG23	2.00	0.42
33:DD:182:LEU:HD22	33:DD:182:LEU:HA	1.66	0.42
34:DE:95:ILE:CD1	34:DE:95:ILE:N	2.82	0.42
35:DF:2:LYS:HE2	35:DF:2:LYS:HB3	1.80	0.42
35:DF:102:PRO:O	35:DF:103:LYS:C	2.62	0.42
35:DF:116:ASP:OD1	35:DF:119:ARG:NH2	2.52	0.42
36:DG:48:GLU:O	36:DG:49:ASP:CB	2.67	0.42
36:DG:130:ASN:HB3	36:DG:160:VAL:HA	2.01	0.42
36:DG:133:LEU:HD12	36:DG:133:LEU:O	2.18	0.42
39:DN:30:ILE:CD1	39:DN:99:LEU:HD11	2.49	0.42
41:DP:7:ARG:HD2	41:DP:7:ARG:HA	1.76	0.42
41:DP:8:PRO:C	41:DP:10:PRO:HD3	2.44	0.42
43:DR:42:LYS:O	43:DR:45:ARG:HD3	2.19	0.42
45:DT:33:LYS:HA	45:DT:33:LYS:HD3	1.57	0.42
45:DT:53:ARG:O	45:DT:53:ARG:HG2	2.12	0.42
47:DV:1:MET:SD	47:DV:46:VAL:HB	2.59	0.42
51:DZ:39:VAL:HG23	51:DZ:40:ASP:N	2.34	0.42
51:DZ:48:PHE:C	51:DZ:48:PHE:CD1	2.97	0.42
1:AA:20:U:H4'	1:AA:572:A:C6	2.54	0.42
1:AA:69:G:C2	1:AA:70:G:N7	2.87	0.42
1:AA:134:A:H61	16:AP:25:ARG:NH1	2.06	0.42
1:AA:173:U:H5"	1:AA:197:A:O4'	2.18	0.42
1:AA:335:C:O2'	1:AA:336:C:H5'	2.19	0.42
1:AA:374:A:C2	1:AA:375:U:C2	3.07	0.42
1:AA:515:G:H1	1:AA:536:C:H42	1.67	0.42
1:AA:577:G:H2'	1:AA:578:C:H6	1.85	0.42
1:AA:708:C:O2'	1:AA:709:G:H5'	2.20	0.42
1:AA:754:C:H3'	1:AA:754:C:O2	2.20	0.42
1:AA:985:C:O5'	1:AA:985:C:H6	2.02	0.42
1:AA:1004:A:N7	1:AA:1036:G:O6	2.52	0.42
1:AA:1077:G:C6	1:AA:1081:G:O6	2.72	0.42
1:AA:1158:C:H3'	1:AA:1158:C:O2	2.19	0.42
1:AA:1298:C:C6	7:AG:114:ARG:NH1	2.87	0.42
1:AA:1317:C:H41	14:AN:19:ARG:HH21	1.67	0.42
1:AA:1362:C:C2'	1:AA:1363:C:H5"	2.49	0.42
2:AB:17:PHE:HD2	2:AB:17:PHE:H	1.66	0.42
2:AB:100:GLY:HA2	2:AB:176:GLU:OE1	2.20	0.42
8:AH:21:LYS:O	8:AH:22:GLU:C	2.61	0.42
9:AI:26:VAL:HA	9:AI:61:ALA:O	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:21:ILE:HB	11:AK:84:VAL:HA	2.00	0.42
26:B4:28:LYS:CB	36:BG:113:ARG:HH22	2.33	0.42
27:B5:11:THR:HG23	31:BA:1263:U:O2'	2.19	0.42
27:B5:43:HIS:HD2	31:BA:2815:C:O2'	2.02	0.42
28:B6:51:GLU:O	28:B6:52:VAL:CG2	2.68	0.42
30:B8:62:LEU:O	30:B8:63:PRO:C	2.62	0.42
31:BA:28:A:C5	31:BA:29:U:C5	3.07	0.42
31:BA:262:A:H2'	31:BA:263:C:O4'	2.19	0.42
31:BA:466:A:C2'	31:BA:467:G:H5'	2.49	0.42
31:BA:588:U:O4	31:BA:670:A:H1'	2.20	0.42
31:BA:1503:U:O2'	31:BA:1504:C:H5'	2.18	0.42
31:BA:1880:C:C5'	31:BA:1880:C:C6	2.92	0.42
31:BA:1987:G:H2'	31:BA:1988:C:C6	2.53	0.42
31:BA:1996:C:H4'	31:BA:1997:G:OP1	2.19	0.42
31:BA:2567:G:H2'	31:BA:2568:C:H6	1.83	0.42
31:BA:2759:G:C2'	31:BA:2760:C:O5'	2.67	0.42
32:BB:69:G:C5	32:BB:70:C:C5	3.08	0.42
33:BD:143:HIS:CD2	33:BD:144:ALA:CB	3.02	0.42
33:BD:161:THR:O	33:BD:196:VAL:HG23	2.18	0.42
33:BD:211:ARG:HA	33:BD:214:TRP:CD2	2.55	0.42
34:BE:11:MET:HB3	34:BE:24:THR:HA	2.00	0.42
35:BF:21:ALA:C	35:BF:23:ASP:N	2.78	0.42
35:BF:136:THR:O	35:BF:137:LYS:C	2.62	0.42
36:BG:48:GLU:O	36:BG:49:ASP:CB	2.66	0.42
37:BH:138:LYS:O	37:BH:142:GLY:N	2.53	0.42
40:BO:115:VAL:CG1	40:BO:121:VAL:HG21	2.47	0.42
41:BP:21:ARG:O	41:BP:21:ARG:CG	2.67	0.42
44:BS:17:ARG:HE	44:BS:89:ARG:NH2	2.16	0.42
45:BT:93:ARG:O	45:BT:94:ALA:O	2.36	0.42
46:BU:115:ALA:C	46:BU:117:GLN:N	2.77	0.42
47:BV:15:GLU:O	47:BV:98:GLU:OE1	2.35	0.42
47:BV:18:LEU:HD13	47:BV:18:LEU:C	2.44	0.42
47:BV:67:GLY:O	47:BV:69:LYS:N	2.52	0.42
48:BW:5:ALA:O	48:BW:6:ILE:HG13	2.19	0.42
48:BW:40:ASN:C	48:BW:41:LYS:HG2	2.45	0.42
51:BZ:9:TYR:OH	51:BZ:61:LEU:HD13	2.19	0.42
51:BZ:117:LEU:HA	51:BZ:174:VAL:HA	2.02	0.42
1:CA:11:G:C6	1:CA:12:U:C4	3.08	0.42
1:CA:189:G:C6	1:CA:189(A):C:N4	2.87	0.42
1:CA:383:A:OP1	1:CA:454:C:O2'	2.30	0.42
1:CA:450:G:N7	1:CA:481:G:C6	2.87	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:780:A:C2	1:CA:803:G:N1	2.87	0.42
1:CA:1067:A:N3	1:CA:1068:G:H1'	2.35	0.42
1:CA:1386:G:C2	1:CA:1387:G:N7	2.87	0.42
1:CA:1442:G:N7	1:CA:1442(B):A:C2	2.87	0.42
2:CB:8:LYS:HA	2:CB:11:LEU:HD12	2.01	0.42
2:CB:36:ARG:HB2	2:CB:41:ILE:HD13	2.00	0.42
2:CB:53:ARG:NH2	2:CB:198:ASP:O	2.53	0.42
2:CB:97:TRP:CE3	2:CB:97:TRP:O	2.72	0.42
4:CD:146:ILE:H	4:CD:146:ILE:CD1	2.32	0.42
5:CE:50:GLU:OE2	5:CE:51:VAL:HG23	2.18	0.42
6:CF:39:LYS:HB3	6:CF:62:TRP:HZ3	1.83	0.42
11:CK:81:ASP:OD1	11:CK:106:LYS:HG2	2.20	0.42
13:CM:25:ILE:HD12	13:CM:25:ILE:N	2.35	0.42
16:CP:14:ASN:N	16:CP:15:PRO:HD3	2.35	0.42
17:CQ:3:LYS:O	17:CQ:4:LYS:C	2.61	0.42
18:CR:62:GLU:O	18:CR:65:ILE:HD12	2.18	0.42
24:D2:18:PRO:O	24:D2:22:GLU:HB2	2.20	0.42
28:D6:18:ARG:HB2	28:D6:19:ARG:H	1.43	0.42
30:D8:35:GLN:HB3	30:D8:36:LYS:H	1.36	0.42
30:D8:62:LEU:CD1	31:DA:242:G:H5"	2.42	0.42
31:DA:196:A:C5	31:DA:805:G:C6	3.08	0.42
31:DA:570:G:H2'	31:DA:2030:A:C6	2.54	0.42
31:DA:930:U:H4'	31:DA:931:G:O5'	2.18	0.42
31:DA:1161:C:H1'	47:DV:8:GLY:O	2.19	0.42
31:DA:1246:A:P	41:DP:18:ARG:HD3	2.58	0.42
31:DA:1291:C:H2'	31:DA:1292:U:H6	1.83	0.42
31:DA:1324:G:C4	31:DA:1328:G:O6	2.72	0.42
31:DA:1337:G:H2'	31:DA:1338:G:H8	1.83	0.42
31:DA:1857:G:H8	31:DA:1857:G:O5'	2.02	0.42
31:DA:1899:G:C2'	31:DA:1900:A:OP2	2.67	0.42
31:DA:2352:A:H2'	31:DA:2353:G:H5'	2.01	0.42
31:DA:2406:U:O4	41:DP:70:GLN:HB3	2.20	0.42
31:DA:2796:U:O2	31:DA:2796:U:O4'	2.37	0.42
33:DD:60:ARG:HG3	33:DD:86:PRO:HB2	2.01	0.42
34:DE:4:ILE:HD13	34:DE:28:ALA:HB1	2.01	0.42
34:DE:47:VAL:O	34:DE:80:GLU:HA	2.20	0.42
35:DF:32:LEU:CD1	35:DF:105:VAL:HG13	2.48	0.42
35:DF:177:ALA:HB1	35:DF:178:PRO:HD2	2.02	0.42
36:DG:18:GLU:O	36:DG:18:GLU:HG3	2.19	0.42
41:DP:146:VAL:HG22	41:DP:147:LEU:N	2.19	0.42
42:DQ:137:TYR:C	42:DQ:137:TYR:CD1	2.97	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DS:13:ARG:HH11	44:DS:13:ARG:HG3	1.84	0.42
47:DV:82:ARG:HD3	47:DV:82:ARG:C	2.44	0.42
50:DY:75:ILE:HD13	50:DY:79:CYS:O	2.19	0.42
1:AA:163:C:C2	1:AA:164:U:C5	3.07	0.42
1:AA:374:A:C6	1:AA:375:U:C4	3.08	0.42
1:AA:376:G:O3'	16:AP:5:ARG:HD2	2.19	0.42
1:AA:472:A:O2'	16:AP:82:GLN:NE2	2.52	0.42
1:AA:689:C:C2	1:AA:690:G:C8	3.08	0.42
1:AA:762:C:C2	1:AA:763:G:C8	3.08	0.42
1:AA:839:U:OP2	1:AA:840:C:H5	2.01	0.42
1:AA:857:C:H2'	1:AA:858:G:O4'	2.20	0.42
2:AB:162:ILE:O	2:AB:185:ILE:HG12	2.19	0.42
5:AE:15:ARG:CD	5:AE:26:PHE:CD2	3.02	0.42
6:AF:8:ILE:HD11	6:AF:79:LEU:HD13	2.02	0.42
6:AF:94:GLN:HE21	18:AR:32:ARG:HH21	1.66	0.42
7:AG:137:LYS:HE2	7:AG:137:LYS:HB3	1.86	0.42
9:AI:82:ALA:HB1	9:AI:96:LEU:HD13	2.00	0.42
15:AO:5:LYS:O	15:AO:9:GLN:HG2	2.20	0.42
17:AQ:48:GLU:O	17:AQ:50:LYS:N	2.53	0.42
18:AR:73:ALA:CB	18:AR:79:LEU:HD12	2.49	0.42
19:AS:19:VAL:HG12	19:AS:19:VAL:O	2.19	0.42
22:B0:45:PHE:CE2	22:B0:69:PHE:HE2	2.37	0.42
28:B6:30:THR:HB	31:BA:2286:A:OP1	2.19	0.42
31:BA:357:A:C2	31:BA:358:U:O2	2.72	0.42
31:BA:475:U:C4	31:BA:481:G:O6	2.71	0.42
31:BA:596:G:C6	31:BA:597:U:C4	3.07	0.42
31:BA:778:G:C6	31:BA:779:U:C4	3.07	0.42
31:BA:858:U:O2	31:BA:2268:A:H2'	2.20	0.42
31:BA:992:C:O2'	31:BA:993:G:H5'	2.19	0.42
31:BA:1210:A:C8	31:BA:1210:A:C4'	3.03	0.42
31:BA:1217:C:H2'	31:BA:1218:C:O5'	2.19	0.42
31:BA:1496:A:N7	31:BA:1498:C:N3	2.67	0.42
31:BA:1856:G:H2'	31:BA:1857:G:H5'	2.02	0.42
31:BA:1864:U:C3'	31:BA:1865:G:H5"	2.49	0.42
31:BA:1881:C:H2'	31:BA:1881:C:O2	2.20	0.42
31:BA:1884:A:C3'	31:BA:1885:A:H5"	2.48	0.42
31:BA:1910:G:O2'	31:BA:1911:U:H5'	2.19	0.42
31:BA:2228:G:H2'	31:BA:2229:C:C6	2.54	0.42
31:BA:2259:G:C8	31:BA:2427:C:C4	3.07	0.42
31:BA:2394:C:C3'	31:BA:2395:C:H5'	2.48	0.42
31:BA:2608:G:H5"	31:BA:2609:U:OP2	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2849:U:H4'	31:BA:2868:A:C2	2.55	0.42
31:BA:2850:A:C2	31:BA:2851:A:C4	3.07	0.42
32:BB:59:A:H2'	32:BB:60:C:O4'	2.20	0.42
33:BD:248:SER:C	33:BD:250:TRP:H	2.27	0.42
34:BE:81:ILE:O	34:BE:82:ARG:O	2.38	0.42
35:BF:140:LEU:O	35:BF:141:ALA:C	2.62	0.42
35:BF:200:GLU:O	35:BF:204:ASN:HB2	2.18	0.42
39:BN:82:LEU:HD12	39:BN:82:LEU:N	2.24	0.42
40:BO:17:ARG:HD3	40:BO:17:ARG:HA	1.68	0.42
42:BQ:131:ILE:C	42:BQ:132:VAL:HG22	2.44	0.42
42:BQ:137:TYR:CD1	42:BQ:137:TYR:C	2.97	0.42
48:BW:98:LYS:H	48:BW:98:LYS:HG2	1.70	0.42
49:BX:55:ASN:HB2	49:BX:78:LYS:HD3	1.97	0.42
49:BX:60:ARG:HB2	49:BX:73:ARG:N	2.35	0.42
50:BY:31:LEU:HA	50:BY:31:LEU:HD13	1.59	0.42
51:BZ:6:LYS:HE3	51:BZ:6:LYS:HB2	1.78	0.42
1:CA:20:U:O2	1:CA:916:G:C2	2.73	0.42
1:CA:130:A:N3	1:CA:263:A:O2'	2.46	0.42
1:CA:452:A:C2	1:CA:453:A:C4	3.07	0.42
1:CA:501:C:H1'	1:CA:549:C:H1'	2.02	0.42
1:CA:1017:G:O5'	1:CA:1017:G:H8	2.01	0.42
1:CA:1084:G:OP1	1:CA:1086:U:C2	2.72	0.42
1:CA:1366:C:OP1	9:CI:117:HIS:CE1	2.72	0.42
1:CA:1469:G:H2'	1:CA:1470:G:C8	2.52	0.42
5:CE:135:THR:O	5:CE:138:ALA:HB3	2.19	0.42
5:CE:144:THR:O	5:CE:145:LYS:C	2.62	0.42
12:CL:55:VAL:HA	12:CL:70:ILE:HD13	2.01	0.42
12:CL:60:LEU:HD21	12:CL:66:VAL:HG22	2.00	0.42
14:CN:53:LEU:HB3	14:CN:56:VAL:HG21	2.00	0.42
17:CQ:24:GLU:HA	17:CQ:39:SER:HB3	2.01	0.42
20:CT:56:MET:HE3	20:CT:84:LEU:HD12	2.02	0.42
24:D2:15:LYS:CA	24:D2:18:PRO:HD2	2.49	0.42
27:D5:25:LEU:HD12	48:DW:19:LEU:HB3	2.02	0.42
27:D5:29:THR:O	27:D5:30:LEU:HD23	2.19	0.42
29:D7:34:ARG:NH1	29:D7:39:ARG:CB	2.82	0.42
30:D8:35:GLN:HE21	30:D8:35:GLN:HB3	1.54	0.42
31:DA:49:A:H5"	31:DA:51:G:O4'	2.18	0.42
31:DA:302:C:O2'	31:DA:303:U:H5'	2.19	0.42
31:DA:354:G:O5'	31:DA:354:G:H8	2.02	0.42
31:DA:664:C:H4'	31:DA:941:A:OP1	2.20	0.42
31:DA:681:G:H2'	31:DA:682:G:O4'	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:746:A:H2'	31:DA:2612:C:H5"	2.00	0.42
31:DA:1181:C:H2'	31:DA:1182:A:C8	2.55	0.42
31:DA:1494:A:N3	31:DA:1494:A:C2'	2.83	0.42
31:DA:2063:C:O2	31:DA:2450:A:N1	2.52	0.42
31:DA:2358:G:C5	31:DA:2359:C:C5	3.07	0.42
31:DA:2433:A:H5"	31:DA:2434:A:OP1	2.20	0.42
31:DA:2445:G:OP1	35:DF:74:ARG:NH2	2.42	0.42
34:DE:65:GLY:O	34:DE:67:PHE:N	2.48	0.42
38:DI:94:ALA:CB	38:DI:114:LEU:HD12	2.49	0.42
38:DI:124:GLY:N	38:DI:142:VAL:HG23	2.34	0.42
39:DN:56:ASN:HA	39:DN:125:GLY:H	1.85	0.42
39:DN:75:TYR:N	39:DN:75:TYR:HD1	2.17	0.42
40:DO:87:ILE:HD13	40:DO:87:ILE:HA	1.52	0.42
46:DU:29:SER:O	46:DU:30:LYS:HD3	2.20	0.42
46:DU:102:GLU:OE2	47:DV:2:PHE:CE1	2.72	0.42
51:DZ:24:LEU:HA	51:DZ:25:PRO:HD2	1.81	0.42
51:DZ:98:MET:HE2	51:DZ:100:VAL:CG2	2.50	0.42
51:DZ:128:VAL:HG23	51:DZ:160:GLY:O	2.20	0.42
1:AA:383:A:OP1	1:AA:454:C:O2'	2.32	0.42
1:AA:427:U:OP1	4:AD:13:ARG:NH2	2.52	0.42
1:AA:511:C:O2	1:AA:512:U:C6	2.72	0.42
1:AA:556:C:C2'	1:AA:557:G:H5'	2.49	0.42
1:AA:577:G:C2	1:AA:578:C:C6	3.08	0.42
1:AA:770:C:C2'	1:AA:771:G:H5'	2.49	0.42
1:AA:827:U:C4	1:AA:870:U:N3	2.87	0.42
1:AA:832:C:N4	1:AA:855:G:C6	2.88	0.42
1:AA:951:G:C6	1:AA:1231:G:C6	3.07	0.42
1:AA:994:A:N6	1:AA:1046:A:C2	2.87	0.42
1:AA:994:A:H62	1:AA:1046:A:H2	1.66	0.42
1:AA:1003:G:H2'	1:AA:1004:A:O4'	2.19	0.42
1:AA:1054:C:P	1:AA:1197:G:OP2	2.78	0.42
1:AA:1441:G:H5"	1:AA:1442:G:C5'	2.49	0.42
1:AA:1452:C:H4'	1:AA:1456:G:O5'	2.20	0.42
2:AB:171:ALA:HA	2:AB:174:VAL:HG23	2.01	0.42
5:AE:12:LEU:O	5:AE:13:ILE:HD12	2.19	0.42
5:AE:48:ALA:C	5:AE:50:GLU:H	2.27	0.42
6:AF:39:LYS:HB3	6:AF:62:TRP:HZ3	1.84	0.42
7:AG:26:PHE:HB2	7:AG:62:PHE:HZ	1.83	0.42
7:AG:49:ILE:HG22	7:AG:49:ILE:O	2.19	0.42
8:AH:28:ALA:HA	8:AH:59:LEU:HG	2.01	0.42
17:AQ:45:HIS:HB3	17:AQ:72:ARG:HG2	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:60:ILE:HB	17:AQ:74:LEU:HD23	2.01	0.42
20:AT:36:LEU:O	20:AT:37:SER:C	2.62	0.42
20:AT:95:ALA:O	20:AT:96:GLY:C	2.62	0.42
20:AT:100:ILE:O	20:AT:101:GLY:C	2.62	0.42
31:BA:299:A:C5	31:BA:322:A:C2	3.08	0.42
31:BA:302:C:H2'	31:BA:303:U:O5'	2.20	0.42
31:BA:1856:G:C2'	31:BA:1857:G:H5'	2.50	0.42
31:BA:1948:G:C2'	31:BA:1949:G:H5'	2.50	0.42
31:BA:2196:C:O2'	31:BA:2197:U:H5'	2.19	0.42
31:BA:2225:A:C1'	31:BA:2226:C:OP2	2.68	0.42
33:BD:37:LEU:HD23	33:BD:37:LEU:N	2.34	0.42
35:BF:8:GLN:O	35:BF:9:ILE:C	2.62	0.42
35:BF:110:LEU:HD21	35:BF:181:LEU:HD23	2.02	0.42
35:BF:116:ASP:OD1	35:BF:119:ARG:NH2	2.52	0.42
36:BG:118:ARG:HB2	36:BG:181:ARG:CZ	2.50	0.42
37:BH:90:LYS:O	37:BH:94:TYR:CD2	2.73	0.42
39:BN:5:VAL:HG22	39:BN:6:PRO:HD2	2.01	0.42
39:BN:58:ASP:O	39:BN:59:LYS:C	2.62	0.42
40:BO:71:ARG:HE	40:BO:105:GLU:CD	2.27	0.42
43:BR:61:HIS:O	43:BR:62:ALA:C	2.62	0.42
44:BS:17:ARG:NE	44:BS:89:ARG:NH2	2.67	0.42
46:BU:92:ARG:HD3	46:BU:94:ASN:HB3	2.02	0.42
47:BV:50:PRO:O	47:BV:51:VAL:HB	2.18	0.42
47:BV:64:HIS:HB2	47:BV:95:LEU:O	2.20	0.42
47:BV:90:PRO:O	47:BV:91:TYR:CB	2.67	0.42
51:BZ:27:VAL:HG13	51:BZ:29:TYR:HD2	1.85	0.42
51:BZ:44:PHE:CZ	51:BZ:48:PHE:CD2	3.07	0.42
51:BZ:74:VAL:HG22	51:BZ:86:VAL:HG13	2.01	0.42
51:BZ:144:LEU:N	51:BZ:144:LEU:HD22	2.35	0.42
1:CA:12:U:H4'	1:CA:526:C:O2'	2.20	0.42
1:CA:117:G:O2'	1:CA:118:U:H5'	2.20	0.42
1:CA:411:A:O2'	1:CA:413:G:H5'	2.20	0.42
1:CA:438:G:H4'	4:CD:123:HIS:ND1	2.34	0.42
1:CA:577:G:C1'	1:CA:816:A:C4	3.02	0.42
1:CA:658:G:C1'	15:CO:22:THR:HB	2.49	0.42
1:CA:857:C:H2'	1:CA:858:G:O4'	2.19	0.42
1:CA:883:C:O2'	1:CA:884:U:H5'	2.20	0.42
1:CA:1006:C:N3	1:CA:1023:G:O6	2.53	0.42
1:CA:1253:G:H2'	1:CA:1254:C:O4'	2.20	0.42
1:CA:1328:C:H2'	1:CA:1329:A:O4'	2.20	0.42
1:CA:1347:G:C8	9:CI:107:ARG:HB3	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1385:G:C6	1:CA:1386:G:N7	2.88	0.42
1:CA:1442(A):G:C3'	1:CA:1442(B):A:C5'	2.88	0.42
2:CB:18:GLY:HA2	2:CB:42:ILE:HG22	2.01	0.42
2:CB:100:GLY:HA2	2:CB:176:GLU:OE1	2.19	0.42
4:CD:3:ARG:HD3	4:CD:5:ILE:HD11	2.01	0.42
5:CE:70:PRO:O	5:CE:71:LEU:O	2.37	0.42
8:CH:58:TYR:N	8:CH:58:TYR:CD1	2.88	0.42
11:CK:41:THR:CG2	11:CK:42:TRP:N	2.83	0.42
13:CM:94:ARG:O	13:CM:96:LEU:HG	2.20	0.42
15:CO:20:GLY:O	15:CO:21:ASP:HB3	2.19	0.42
15:CO:56:LEU:HA	15:CO:59:MET:HE2	2.00	0.42
15:CO:63:ARG:CG	15:CO:67:LEU:HD12	2.50	0.42
19:CS:36:ARG:HH12	19:CS:75:ALA:CB	2.27	0.42
23:D1:67:ILE:O	23:D1:70:VAL:HB	2.19	0.42
24:D2:35:LEU:HD23	24:D2:35:LEU:H	1.83	0.42
31:DA:50:U:H6	31:DA:50:U:H5"	1.83	0.42
31:DA:57:C:H2'	31:DA:58:G:O4'	2.20	0.42
31:DA:64:A:O3'	49:DX:68:ARG:O	2.37	0.42
31:DA:417:C:H1'	31:DA:2407:G:N2	2.35	0.42
31:DA:452:G:C2	31:DA:458:G:C5	3.08	0.42
31:DA:584:C:N4	31:DA:585:G:C6	2.87	0.42
31:DA:825:C:C2'	31:DA:826:U:O5'	2.67	0.42
31:DA:836:G:C6	31:DA:837:C:C4	3.08	0.42
31:DA:857:C:O2	31:DA:857:C:H2'	2.19	0.42
31:DA:1000:A:N6	31:DA:1155:A:C8	2.88	0.42
31:DA:1531:C:C3'	31:DA:1532:C:C5'	2.94	0.42
31:DA:1695:G:H1'	33:DD:8:PRO:O	2.20	0.42
31:DA:1814:G:H2'	31:DA:1815:A:C8	2.54	0.42
31:DA:2810:A:H2'	34:DE:61:ARG:CZ	2.49	0.42
31:DA:2853:C:H6	31:DA:2853:C:O5'	2.03	0.42
32:DB:40:U:N3	32:DB:43:C:H5"	2.34	0.42
32:DB:88:C:H2'	32:DB:89:G:C8	2.55	0.42
33:DD:28:GLU:CB	33:DD:29:PRO:CD	2.98	0.42
33:DD:61:LEU:HD13	33:DD:61:LEU:HA	1.76	0.42
33:DD:85:ASP:OD2	33:DD:88:ARG:NH1	2.49	0.42
34:DE:61:ARG:C	34:DE:63:LEU:H	2.28	0.42
36:DG:44:GLY:O	36:DG:45:GLU:HB3	2.19	0.42
41:DP:58:THR:O	41:DP:58:THR:HG22	2.19	0.42
45:DT:35:LYS:C	45:DT:37:GLY:N	2.76	0.42
47:DV:35:LEU:HA	47:DV:60:GLU:O	2.20	0.42
48:DW:4:LYS:HE3	48:DW:6:ILE:HD11	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DZ:151:HIS:HA	51:DZ:171:ILE:HG23	2.01	0.42
1:AA:38:G:H22	1:AA:397:A:H5"	1.85	0.42
1:AA:349:A:C2'	1:AA:350:G:H5'	2.50	0.42
1:AA:1049:U:OP1	14:AN:3:ARG:NH1	2.52	0.42
1:AA:1385:G:C6	1:AA:1386:G:N7	2.87	0.42
1:AA:1452:C:H4'	1:AA:1456:G:N3	2.34	0.42
2:AB:129:GLU:HB3	2:AB:130:ARG:H	1.69	0.42
8:AH:24:THR:HG22	8:AH:25:ASP:H	1.83	0.42
8:AH:101:PRO:HG2	8:AH:133:LEU:HD11	2.02	0.42
12:AL:20:LYS:H	12:AL:20:LYS:HD3	1.85	0.42
13:AM:25:ILE:HD12	13:AM:25:ILE:N	2.34	0.42
17:AQ:74:LEU:HD22	17:AQ:74:LEU:HA	1.89	0.42
23:B1:89:GLU:N	23:B1:89:GLU:OE2	2.52	0.42
24:B2:41:ILE:HG12	31:BA:94(A):G:N2	2.35	0.42
24:B2:52:ASP:OD1	24:B2:52:ASP:C	2.62	0.42
28:B6:44:ARG:O	28:B6:45:LYS:CG	2.58	0.42
30:B8:62:LEU:HB3	31:BA:242:G:H5'	2.01	0.42
31:BA:18:C:H2'	31:BA:19:C:H6	1.84	0.42
31:BA:28:A:C4	31:BA:29:U:C6	3.07	0.42
31:BA:142:A:C5'	31:BA:142(A):C:OP2	2.64	0.42
31:BA:319:C:C2	31:BA:333:G:N2	2.87	0.42
31:BA:669:G:H8	31:BA:669:G:O2'	1.92	0.42
31:BA:1299:G:H5"	31:BA:1300:U:OP1	2.20	0.42
31:BA:1568:G:H5'	33:BD:60:ARG:HA	2.01	0.42
31:BA:1619:G:N3	31:BA:1619:G:H2'	2.35	0.42
31:BA:2048:G:C5	31:BA:2049:G:C8	3.08	0.42
31:BA:2070:G:C2	31:BA:2442:C:C2	3.08	0.42
31:BA:2584:U:O2	31:BA:2584:U:O5'	2.37	0.42
31:BA:2839:G:C2	31:BA:2880:C:N3	2.88	0.42
32:BB:44:G:N2	32:BB:48:A:C4	2.88	0.42
32:BB:45:A:C2	32:BB:46:A:H1'	2.55	0.42
32:BB:79:C:H2'	32:BB:80:U:H5'	1.98	0.42
34:BE:52:LEU:HD12	34:BE:52:LEU:HA	1.37	0.42
34:BE:177:PRO:O	34:BE:178:GLU:C	2.63	0.42
36:BG:29:TRP:C	36:BG:31:VAL:H	2.28	0.42
36:BG:47:LYS:HG3	36:BG:82:LEU:CD1	2.50	0.42
36:BG:60:LEU:HD22	36:BG:63:ILE:CG1	2.49	0.42
37:BH:153:LYS:CG	37:BH:154:PRO:N	2.82	0.42
39:BN:67:LEU:HD22	39:BN:88:GLU:OE2	2.19	0.42
41:BP:7:ARG:O	41:BP:10:PRO:HD3	2.18	0.42
41:BP:62:LEU:HD23	41:BP:62:LEU:O	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BQ:72:LYS:HB3	42:BQ:94:VAL:HG22	2.01	0.42
44:BS:35:ILE:HG21	44:BS:66:ALA:HB2	2.01	0.42
47:BV:27:ALA:O	47:BV:28:GLU:C	2.62	0.42
49:BX:65:ARG:HA	49:BX:65:ARG:HE	1.83	0.42
50:BY:14:LEU:CG	50:BY:15:VAL:N	2.82	0.42
50:BY:75:ILE:HD13	50:BY:79:CYS:O	2.20	0.42
51:BZ:104:PHE:HA	51:BZ:139:VAL:HB	2.02	0.42
1:CA:38:G:N1	1:CA:397:A:C2	2.88	0.42
1:CA:49:U:C2	1:CA:361:G:N2	2.88	0.42
1:CA:102:G:C6	1:CA:103:C:N4	2.87	0.42
1:CA:189:G:O2'	1:CA:189(A):C:H5'	2.19	0.42
1:CA:340:U:O2'	1:CA:341:C:H5'	2.20	0.42
1:CA:373:A:C4	1:CA:374:A:C8	3.08	0.42
1:CA:521:G:O2'	1:CA:522:C:H5'	2.20	0.42
1:CA:617:G:C6	1:CA:618:C:C4	3.08	0.42
1:CA:922:G:N3	1:CA:1398:A:H2	2.17	0.42
1:CA:1116:C:N4	1:CA:1117:G:N7	2.68	0.42
1:CA:1392:G:O2'	1:CA:1393:U:H5'	2.19	0.42
1:CA:1452:C:H4'	1:CA:1456:G:N3	2.35	0.42
3:CC:87:LEU:O	3:CC:91:LEU:HG	2.20	0.42
4:CD:135:LEU:O	4:CD:136:PRO:C	2.61	0.42
8:CH:73:ASP:OD2	8:CH:75:ARG:HG3	2.19	0.42
13:CM:29:ARG:HD3	13:CM:64:TRP:CZ3	2.55	0.42
13:CM:71:ARG:O	13:CM:71:ARG:HG3	2.18	0.42
15:CO:64:ARG:HG3	15:CO:64:ARG:HH11	1.84	0.42
15:CO:67:LEU:CD2	15:CO:78:TYR:HE1	2.29	0.42
16:CP:23:ASP:C	16:CP:25:ARG:N	2.76	0.42
22:D0:72:ARG:O	22:D0:75:LEU:HB2	2.20	0.42
22:D0:82:ARG:HA	22:D0:83:PRO:HD2	1.78	0.42
28:D6:26:ASN:ND2	28:D6:32:ASN:ND2	2.68	0.42
30:D8:36:LYS:O	30:D8:37:SER:O	2.36	0.42
31:DA:104:U:O5'	31:DA:104:U:H6	2.02	0.42
31:DA:287:C:H2'	31:DA:288:C:O4'	2.20	0.42
31:DA:359:A:H2'	31:DA:360:G:O4'	2.20	0.42
31:DA:483:A:H3'	31:DA:484:C:C6	2.55	0.42
31:DA:686:G:H21	31:DA:788:A:H61	1.66	0.42
31:DA:778:G:C5	31:DA:779:U:C5	3.08	0.42
31:DA:1049:C:H1'	31:DA:1113:U:O2'	2.19	0.42
31:DA:1142(A):A:N9	31:DA:1144:G:N7	2.67	0.42
31:DA:1386:C:OP2	31:DA:1396:U:H5	2.03	0.42
31:DA:1615:C:C6	31:DA:1617:C:C5	3.08	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1942:C:C4	31:DA:1943:U:C4	3.07	0.42
31:DA:2250:G:C6	42:DQ:82:ARG:HD3	2.54	0.42
31:DA:2469:A:C5	31:DA:2482:G:C8	3.08	0.42
31:DA:2473:U:C2	31:DA:2474:C:C6	3.08	0.42
31:DA:2564:A:C6	31:DA:2565:A:N1	2.88	0.42
34:DE:9:VAL:CG2	34:DE:10:GLY:N	2.82	0.42
35:DF:132:VAL:CG2	35:DF:133:ASN:N	2.83	0.42
36:DG:60:LEU:HD22	36:DG:63:ILE:CG1	2.49	0.42
36:DG:153:ARG:HB3	36:DG:153:ARG:CZ	2.49	0.42
37:DH:109:PHE:C	37:DH:111:HIS:H	2.27	0.42
38:DI:62:LYS:HE2	38:DI:134:PRO:HG3	2.02	0.42
38:DI:107:VAL:HG12	38:DI:108:THR:N	2.34	0.42
39:DN:41:ASP:O	39:DN:42:TRP:O	2.37	0.42
41:DP:48:PRO:CG	41:DP:49:ARG:N	2.83	0.42
41:DP:100:LEU:HD23	41:DP:112:LEU:HD11	2.02	0.42
41:DP:103:ALA:O	41:DP:104:GLY:C	2.63	0.42
41:DP:148:LEU:HD13	41:DP:148:LEU:N	2.35	0.42
42:DQ:7:MET:O	42:DQ:10:ARG:NE	2.48	0.42
42:DQ:110:THR:O	42:DQ:111:GLU:C	2.62	0.42
44:DS:54:LEU:HD22	44:DS:58:LEU:O	2.19	0.42
44:DS:83:LYS:HE2	44:DS:105:ALA:HB2	2.00	0.42
44:DS:105:ALA:C	44:DS:107:GLU:H	2.27	0.42
49:DX:28:PHE:CD1	49:DX:28:PHE:N	2.88	0.42
50:DY:8:LYS:CD	50:DY:28:LYS:NZ	2.80	0.42
1:AA:407:G:O2'	4:AD:116:GLN:CB	2.68	0.42
1:AA:458:C:H3'	1:AA:460:G:H8	1.85	0.42
1:AA:515:G:C6	1:AA:516:U:N3	2.87	0.42
1:AA:977:A:C8	1:AA:1223:C:N3	2.88	0.42
1:AA:982:U:C2	1:AA:983:A:N6	2.88	0.42
1:AA:1152:A:OP1	10:AJ:68:HIS:CD2	2.73	0.42
1:AA:1277:C:O2'	1:AA:1279:A:H1'	2.19	0.42
1:AA:1328:C:H2'	1:AA:1329:A:O4'	2.20	0.42
2:AB:51:LEU:HD22	2:AB:55:PHE:CE2	2.55	0.42
3:AC:43:LEU:O	3:AC:47:LEU:HD23	2.20	0.42
4:AD:126:ILE:HG22	4:AD:127:THR:N	2.35	0.42
4:AD:128:VAL:O	4:AD:129:ASN:C	2.63	0.42
4:AD:132:ARG:H	4:AD:132:ARG:HG3	1.61	0.42
5:AE:75:THR:OG1	5:AE:76:ILE:N	2.50	0.42
5:AE:91:LEU:HD12	5:AE:91:LEU:HA	1.76	0.42
5:AE:135:THR:O	5:AE:138:ALA:HB3	2.19	0.42
9:AI:18:PHE:HB3	9:AI:20:ARG:HH11	1.82	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:66:LEU:C	11:AK:68:ALA:N	2.75	0.42
14:AN:29:ARG:NH2	14:AN:41:ARG:HH12	2.18	0.42
17:AQ:68:ARG:O	17:AQ:68:ARG:HG3	2.20	0.42
23:B1:86:SER:HA	23:B1:89:GLU:OE1	2.19	0.42
25:B3:46:ASN:ND2	31:BA:851:U:H5'	2.35	0.42
31:BA:329:G:OP2	50:BY:71:LYS:HE3	2.20	0.42
31:BA:661:C:H2'	31:BA:662:G:H8	1.83	0.42
31:BA:777:A:N3	31:BA:778:G:C8	2.87	0.42
31:BA:830:G:H1'	31:BA:2448:A:N1	2.35	0.42
31:BA:857:C:O2	31:BA:857:C:H2'	2.18	0.42
31:BA:873:G:H1	31:BA:904:C:N4	2.18	0.42
31:BA:1022:G:C6	31:BA:1141:U:C5	3.07	0.42
31:BA:1345:C:O2'	31:BA:1346:G:H5'	2.20	0.42
31:BA:1429:G:H2'	31:BA:1430:C:H6	1.84	0.42
31:BA:1497:U:O4'	31:BA:1497:U:P	2.78	0.42
31:BA:1586:A:C2	31:BA:1587:A:N7	2.88	0.42
31:BA:2038:G:H2'	31:BA:2039:C:O4'	2.20	0.42
31:BA:2801(A):A:C3'	31:BA:2802:G:H5'	2.50	0.42
32:BB:40:U:H3'	32:BB:41:U:H5"	2.01	0.42
33:BD:121:PRO:C	33:BD:123:ALA:H	2.28	0.42
33:BD:266:SER:C	33:BD:267:SER:O	2.59	0.42
35:BF:2:LYS:HB3	35:BF:2:LYS:HE2	1.81	0.42
36:BG:39:ILE:O	36:BG:39:ILE:HG13	2.19	0.42
36:BG:67:LYS:H	36:BG:67:LYS:CD	2.20	0.42
37:BH:47:GLU:C	37:BH:49:VAL:N	2.78	0.42
43:BR:12:ARG:CG	43:BR:12:ARG:NH1	2.80	0.42
43:BR:103:ARG:HH11	48:BW:40:ASN:ND2	2.17	0.42
49:BX:59:VAL:HG22	49:BX:74:PRO:O	2.20	0.42
1:CA:68:G:N2	1:CA:69:G:C4	2.87	0.42
1:CA:117:G:H8	1:CA:117:G:O5'	2.03	0.42
1:CA:335:C:O2'	1:CA:336:C:H5'	2.19	0.42
1:CA:348:G:N2	1:CA:349:A:C4	2.88	0.42
1:CA:666:G:C2	1:CA:741:G:C4	3.08	0.42
1:CA:894:G:C6	1:CA:895:G:C5	3.07	0.42
2:CB:194:PRO:O	2:CB:196:LEU:N	2.52	0.42
8:CH:103:VAL:CG2	8:CH:110:ALA:HB2	2.49	0.42
9:CI:99:LEU:HD12	9:CI:101:PHE:CZ	2.55	0.42
9:CI:125:TYR:CD2	9:CI:125:TYR:C	2.96	0.42
10:CJ:5:ARG:HA	10:CJ:73:ASP:OD1	2.20	0.42
11:CK:21:ILE:HD12	11:CK:21:ILE:N	2.34	0.42
11:CK:29:ILE:HB	11:CK:44:SER:HB2	1.98	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:69:ALA:O	11:CK:73:MET:HG3	2.19	0.42
11:CK:81:ASP:OD2	11:CK:106:LYS:HG2	2.20	0.42
12:CL:27:LEU:C	12:CL:29:GLY:N	2.77	0.42
15:CO:55:GLY:O	15:CO:56:LEU:C	2.63	0.42
17:CQ:74:LEU:C	17:CQ:74:LEU:HD13	2.45	0.42
19:CS:69:HIS:HB2	19:CS:74:PHE:HE2	1.85	0.42
27:D5:33:CYS:HB2	27:D5:40:LYS:HE3	2.00	0.42
31:DA:39:C:H2'	31:DA:40:C:C6	2.54	0.42
31:DA:272(B):G:H2'	31:DA:272(C):G:O5'	2.20	0.42
31:DA:319:C:C2	31:DA:333:G:N2	2.87	0.42
31:DA:559:G:H22	46:DU:49:HIS:CD2	2.37	0.42
31:DA:639:U:O2'	31:DA:640:C:H5'	2.20	0.42
31:DA:706:A:OP1	33:DD:7:LYS:HE3	2.20	0.42
31:DA:838:C:C2'	31:DA:839:U:H5'	2.49	0.42
31:DA:1392:A:C6	31:DA:1393:A:C6	3.08	0.42
31:DA:1497:U:H3	31:DA:1578:U:P	2.42	0.42
31:DA:1767:C:O2'	31:DA:1768:U:H5'	2.19	0.42
31:DA:2274:A:O5'	31:DA:2275:C:OP2	2.36	0.42
31:DA:2596:U:C2'	31:DA:2597:G:H5'	2.50	0.42
31:DA:2660:A:H3'	31:DA:2660:A:N3	2.35	0.42
31:DA:2870:C:C2'	31:DA:2871:C:H5'	2.50	0.42
33:DD:25:THR:HG21	33:DD:82:ILE:N	2.33	0.42
34:DE:55:ASN:HA	34:DE:56:PRO:HD3	1.84	0.42
34:DE:116:VAL:CG2	34:DE:122:PHE:HB2	2.49	0.42
34:DE:134:ILE:HB	34:DE:137:HIS:HB2	2.02	0.42
35:DF:7:TYR:CD1	35:DF:8:GLN:N	2.88	0.42
35:DF:33:LEU:HD12	35:DF:33:LEU:HA	1.85	0.42
37:DH:43:VAL:O	37:DH:43:VAL:CG2	2.57	0.42
37:DH:64:LEU:O	37:DH:67:LEU:HB3	2.19	0.42
38:DI:82:ARG:HG2	38:DI:89:TYR:CE2	2.55	0.42
40:DO:21:CYS:HB2	40:DO:39:ILE:HD12	2.02	0.42
45:DT:53:ARG:CG	45:DT:53:ARG:NH1	2.81	0.42
46:DU:27:LEU:C	46:DU:30:LYS:H	2.27	0.42
47:DV:69:LYS:O	47:DV:70:ILE:CG2	2.65	0.42
47:DV:75:PHE:CD1	47:DV:89:GLN:HB3	2.50	0.42
48:DW:92:ARG:O	48:DW:93:ALA:HB3	2.20	0.42
49:DX:57:LEU:HD13	49:DX:77:LYS:HB2	2.00	0.42
1:AA:68:G:C2	1:AA:69:G:C4	3.08	0.42
1:AA:338:A:C2'	1:AA:339:C:H5'	2.48	0.42
1:AA:339:C:H2'	1:AA:340:U:C6	2.55	0.42
1:AA:654:G:C2'	1:AA:655:A:H5'	2.50	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:982:U:H5”	14:AN:6:LEU:CD1	2.49	0.42
1:AA:1068:G:OP2	1:AA:1094:G:H5’	2.20	0.42
1:AA:1137:C:H3’	1:AA:1137:C:H6	1.85	0.42
1:AA:1194:U:H2’	1:AA:1195:C:C6	2.55	0.42
1:AA:1298:C:H4’	1:AA:1299:A:C4	2.55	0.42
1:AA:1502:A:H2	1:AA:1505:G:C2	2.38	0.42
4:AD:171:GLY:HA2	4:AD:172:PRO:HD3	1.76	0.42
5:AE:72:GLN:O	5:AE:75:THR:HG22	2.20	0.42
5:AE:140:ARG:HE	5:AE:140:ARG:HB2	1.68	0.42
8:AH:112:LEU:HA	8:AH:134:ILE:H	1.84	0.42
8:AH:134:ILE:O	8:AH:135:CYS:HB3	2.20	0.42
10:AJ:50:ILE:HA	10:AJ:60:ARG:CB	2.50	0.42
11:AK:38:ASN:HA	11:AK:39:PRO:HD3	1.89	0.42
11:AK:125:PHE:N	11:AK:125:PHE:HD1	2.18	0.42
11:AK:125:PHE:HD1	11:AK:125:PHE:H	1.67	0.42
14:AN:25:VAL:HG23	14:AN:38:GLY:O	2.19	0.42
16:AP:23:ASP:C	16:AP:25:ARG:N	2.76	0.42
17:AQ:18:THR:HG23	17:AQ:69:LYS:HE3	2.02	0.42
20:AT:29:LYS:O	20:AT:33:ILE:HG12	2.20	0.42
20:AT:77:ALA:O	20:AT:78:ALA:C	2.63	0.42
23:B1:79:GLY:O	23:B1:80:LEU:HD23	2.19	0.42
24:B2:18:PRO:O	24:B2:20:GLU:N	2.53	0.42
25:B3:11:SER:HB3	31:BA:988:A:P	2.60	0.42
27:B5:42:PRO:HB2	31:BA:2815:C:O2’	2.20	0.42
28:B6:16:CYS:O	28:B6:18:ARG:CZ	2.68	0.42
30:B8:6:THR:HB	30:B8:63:PRO:CG	2.36	0.42
31:BA:51:G:O2’	31:BA:119:A:N1	2.51	0.42
31:BA:274:G:N7	31:BA:363:G:C6	2.88	0.42
31:BA:281:G:N2	31:BA:358:U:H5	2.17	0.42
31:BA:482:A:H5’	50:BY:47:LYS:HD3	2.01	0.42
31:BA:571:A:C8	31:BA:2030:A:N6	2.87	0.42
31:BA:701:G:N2	31:BA:732:C:C2	2.88	0.42
31:BA:846:C:C4	31:BA:930:U:C4	3.08	0.42
31:BA:856:C:O2	31:BA:856:C:H2’	2.20	0.42
31:BA:860:U:O2	31:BA:860:U:O4’	2.38	0.42
31:BA:861:A:C2	31:BA:917:A:N3	2.88	0.42
31:BA:996:A:OP2	46:BU:92:ARG:CZ	2.67	0.42
31:BA:1042:G:H5’	31:BA:1043:C:OP2	2.19	0.42
31:BA:1121:C:H2’	31:BA:1122:G:O5’	2.20	0.42
31:BA:1313:U:H2’	31:BA:1610:A:N1	2.34	0.42
31:BA:1340:U:H4’	31:BA:1341:U:OP2	2.18	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1533:G:HO2'	31:BA:1543:C:P	2.38	0.42
31:BA:1880:C:H5'	31:BA:1880:C:C6	2.51	0.42
31:BA:1922:G:H2'	31:BA:1923:U:O4'	2.20	0.42
31:BA:2190:G:H2'	31:BA:2191:G:H5'	2.02	0.42
31:BA:2317:C:C2'	31:BA:2317:C:O2	2.58	0.42
31:BA:2793:G:O2'	31:BA:2794:C:OP2	2.32	0.42
31:BA:2895:U:C5	31:BA:2896:C:C5	3.08	0.42
33:BD:35:LYS:HE3	33:BD:65:ILE:HG22	2.02	0.42
36:BG:55:LYS:HZ1	36:BG:148:MET:HG3	1.84	0.42
37:BH:89:ILE:C	37:BH:90:LYS:HG2	2.44	0.42
38:BI:1:MET:HB2	38:BI:21:VAL:O	2.20	0.42
39:BN:7:LYS:H	39:BN:7:LYS:HG3	1.60	0.42
41:BP:57:THR:O	41:BP:58:THR:CB	2.67	0.42
41:BP:71:VAL:O	41:BP:73:GLY:N	2.53	0.42
42:BQ:134:ARG:NH2	51:BZ:122:ARG:HD2	2.31	0.42
45:BT:29:ARG:CB	45:BT:85:LYS:CA	2.94	0.42
45:BT:50:ILE:HA	45:BT:99:LEU:CD1	2.50	0.42
51:BZ:39:VAL:HG23	51:BZ:40:ASP:N	2.33	0.42
1:CA:105:G:C6	1:CA:106:C:C4	3.08	0.42
1:CA:407:G:O2'	4:CD:116:GLN:CG	2.68	0.42
1:CA:793:U:O2	1:CA:1516:G:H4'	2.20	0.42
1:CA:815:A:C2	1:CA:1529:G:C4	3.08	0.42
1:CA:953:G:O6	1:CA:1228:C:N4	2.53	0.42
1:CA:980:C:H5'	1:CA:981:U:C5	2.55	0.42
1:CA:1286:A:H2	21:CU:22:ARG:HH22	1.67	0.42
1:CA:1298:C:H2'	7:CG:114:ARG:HH12	1.85	0.42
1:CA:1366:C:H2'	1:CA:1367:C:C6	2.55	0.42
1:CA:1441:G:H5"	1:CA:1442:G:C5'	2.48	0.42
1:CA:1464:G:O2'	1:CA:1465:C:H5'	2.19	0.42
1:CA:1518:A:H5"	1:CA:1519:A:OP2	2.20	0.42
2:CB:204:ASN:HD21	2:CB:207:ALA:H	1.66	0.42
3:CC:195:VAL:C	3:CC:196:LEU:HD22	2.45	0.42
4:CD:148:VAL:HG12	4:CD:152:SER:HB2	2.00	0.42
6:CF:60:PHE:O	6:CF:61:LEU:HD12	2.19	0.42
14:CN:24:CYS:HB3	14:CN:27:CYS:O	2.20	0.42
22:D0:1:MET:O	22:D0:2:ALA:HB3	2.20	0.42
27:D5:13:LYS:O	27:D5:14:ALA:C	2.63	0.42
28:D6:16:CYS:O	28:D6:18:ARG:NE	2.51	0.42
28:D6:30:THR:HB	31:DA:2286:A:OP1	2.20	0.42
30:D8:30:ARG:NH2	41:DP:62:LEU:HB2	2.35	0.42
31:DA:17:G:C6	31:DA:18:C:N4	2.87	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:330:A:O2'	31:DA:331:A:H8	2.03	0.42
31:DA:738:G:C6	31:DA:739:G:C2	3.07	0.42
31:DA:892:G:H2'	31:DA:893:C:C5'	2.50	0.42
31:DA:977:G:C6	31:DA:987:G:C6	3.08	0.42
31:DA:1028:A:H61	31:DA:1125:G:H2'	1.84	0.42
31:DA:1470:G:N2	31:DA:1523:U:C4	2.87	0.42
31:DA:1705:G:C5	31:DA:1706:U:C4	3.08	0.42
31:DA:1857:G:C2'	31:DA:1885:A:H61	2.33	0.42
31:DA:1865:G:H2'	31:DA:1876:A:N7	2.35	0.42
31:DA:2197:U:C6	31:DA:2224:G:C6	3.08	0.42
31:DA:2310:A:N3	31:DA:2310:A:H5'	2.35	0.42
31:DA:2526:G:H5'	31:DA:2742:C:O2'	2.20	0.42
31:DA:2826:A:H2'	31:DA:2827:C:O5'	2.19	0.42
33:DD:101:GLU:OE1	33:DD:103:ARG:HD3	2.19	0.42
33:DD:124:PRO:HG2	33:DD:129:ASN:ND2	2.35	0.42
33:DD:193:VAL:HG13	33:DD:193:VAL:O	2.18	0.42
34:DE:50:GLY:HA3	34:DE:74:PRO:HG3	2.02	0.42
35:DF:63:LYS:NZ	35:DF:67:GLN:HB2	2.35	0.42
35:DF:162:LEU:HD12	35:DF:162:LEU:HA	1.78	0.42
37:DH:153:LYS:CG	37:DH:154:PRO:N	2.82	0.42
39:DN:7:LYS:O	39:DN:8:GLN:C	2.62	0.42
39:DN:96:GLU:CD	39:DN:96:GLU:H	2.27	0.42
41:DP:98:GLU:HG3	41:DP:99:LEU:H	1.81	0.42
41:DP:111:ARG:HG3	41:DP:128:HIS:CG	2.55	0.42
41:DP:138:LEU:C	41:DP:140:ALA:H	2.28	0.42
43:DR:16:HIS:O	43:DR:19:ALA:HB3	2.20	0.42
44:DS:97:ARG:NE	44:DS:97:ARG:O	2.53	0.42
45:DT:33:LYS:NZ	45:DT:33:LYS:CA	2.83	0.42
1:AA:106:C:C2	1:AA:107:G:C8	3.08	0.42
1:AA:177:C:O2'	1:AA:178:C:H5'	2.20	0.42
1:AA:253:U:H2'	1:AA:254:G:C8	2.54	0.42
1:AA:411:A:O2'	1:AA:413:G:H5'	2.20	0.42
1:AA:597:G:C8	1:AA:598:U:C5	3.08	0.42
1:AA:618:C:H3'	1:AA:619:U:H5"	2.01	0.42
1:AA:774:G:C2'	1:AA:775:G:H5'	2.49	0.42
1:AA:808:C:OP1	15:AO:48:LYS:HE3	2.19	0.42
1:AA:1065:U:O2'	1:AA:1066:C:OP2	2.35	0.42
1:AA:1084:G:OP1	1:AA:1086:U:N3	2.53	0.42
1:AA:1126:U:H2'	1:AA:1127:G:O5'	2.20	0.42
1:AA:1281:U:H3'	1:AA:1282:C:H6	1.84	0.42
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:163:PHE:CD2	2:AB:185:ILE:HG13	2.48	0.42
3:AC:165:THR:HG23	3:AC:165:THR:O	2.19	0.42
5:AE:31:LEU:HD23	5:AE:31:LEU:HA	1.84	0.42
8:AH:25:ASP:OD2	8:AH:60:ARG:NE	2.52	0.42
8:AH:28:ALA:CB	8:AH:57:PRO:O	2.68	0.42
8:AH:58:TYR:N	8:AH:58:TYR:HD1	2.18	0.42
9:AI:50:LEU:HD23	9:AI:50:LEU:HA	1.85	0.42
9:AI:125:TYR:HD2	9:AI:125:TYR:C	2.28	0.42
10:AJ:5:ARG:HA	10:AJ:73:ASP:OD1	2.20	0.42
10:AJ:81:THR:O	10:AJ:85:LEU:HG	2.19	0.42
11:AK:111:ASP:O	11:AK:111:ASP:CG	2.63	0.42
20:AT:63:ILE:HG22	20:AT:77:ALA:HB1	2.01	0.42
24:B2:52:ASP:C	24:B2:53:LEU:O	2.61	0.42
27:B5:48:GLU:O	27:B5:49:CYS:C	2.62	0.42
28:B6:27:LYS:HD2	31:BA:2285:C:C5	2.55	0.42
31:BA:271(P):C:O5'	38:BI:45:LYS:HE3	2.20	0.42
31:BA:280:C:H2'	31:BA:281:G:H5'	2.01	0.42
31:BA:533:G:H5'	46:BU:24:TYR:CD2	2.55	0.42
31:BA:685:A:C5	31:BA:774:A:C2	3.08	0.42
31:BA:686:G:N2	31:BA:788:A:H61	2.18	0.42
31:BA:1485:G:H1'	31:BA:1505:C:N4	2.35	0.42
31:BA:1570:A:H2'	31:BA:1571:A:C8	2.55	0.42
31:BA:2046:G:H2'	31:BA:2047:U:H6	1.84	0.42
31:BA:2074:U:H2'	31:BA:2075:U:C6	2.54	0.42
31:BA:2077:A:H1'	31:BA:2435:A:O4'	2.20	0.42
31:BA:2323:G:H2'	31:BA:2324:C:O4'	2.20	0.42
31:BA:2766:G:H2'	31:BA:2766:G:N3	2.34	0.42
32:BB:1:U:C6	32:BB:2:C:C5	3.07	0.42
33:BD:4:LYS:HB2	33:BD:18:VAL:HG12	2.01	0.42
34:BE:56:PRO:C	34:BE:58:ARG:N	2.78	0.42
34:BE:78:LEU:H	34:BE:78:LEU:HG	1.48	0.42
34:BE:119:ARG:HG2	34:BE:160:TYR:HB2	2.01	0.42
34:BE:160:TYR:CD2	34:BE:160:TYR:C	2.98	0.42
35:BF:144:LYS:C	35:BF:146:ALA:N	2.77	0.42
36:BG:25:TYR:CE2	36:BG:32:PRO:HD3	2.54	0.42
38:BI:97:ILE:O	38:BI:98:ALA:C	2.62	0.42
40:BO:87:ILE:HG23	40:BO:88:ASN:N	2.35	0.42
41:BP:5:ASP:HB3	41:BP:6:LEU:H	1.58	0.42
41:BP:104:GLY:C	41:BP:105:LEU:HD12	2.45	0.42
42:BQ:89:ASN:ND2	42:BQ:89:ASN:N	2.65	0.42
43:BR:44:LEU:CD2	43:BR:48:VAL:HG23	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BS:97:ARG:HE	44:BS:98:VAL:CA	2.32	0.42
45:BT:27:THR:C	45:BT:28:VAL:HG23	2.42	0.42
49:BX:59:VAL:C	49:BX:73:ARG:HA	2.45	0.42
50:BY:43:ASN:O	50:BY:44:ILE:O	2.37	0.42
1:CA:244:U:C6	1:CA:894:G:N2	2.88	0.42
1:CA:411:A:C5	1:CA:429:U:C4	3.08	0.42
1:CA:579:G:H2'	1:CA:580:U:C6	2.55	0.42
1:CA:749:C:O5'	1:CA:749:C:H6	2.02	0.42
1:CA:757:U:H5"	1:CA:822:C:O2	2.20	0.42
1:CA:951:G:C6	1:CA:1231:G:C6	3.08	0.42
1:CA:996:A:H2'	1:CA:997:U:O4'	2.20	0.42
1:CA:997:U:H2'	1:CA:998:G:H8	1.85	0.42
1:CA:1015:A:C6	1:CA:1016:A:C6	3.08	0.42
1:CA:1128:C:N3	1:CA:1139:G:C6	2.87	0.42
1:CA:1271:G:H5'	1:CA:1314:C:C5'	2.49	0.42
2:CB:132:LYS:O	2:CB:136:VAL:HG23	2.20	0.42
2:CB:153:ARG:HB2	2:CB:154:LEU:H	1.60	0.42
3:CC:165:THR:O	3:CC:165:THR:HG23	2.20	0.42
3:CC:178:LEU:C	3:CC:180:ALA:H	2.28	0.42
7:CG:69:VAL:HG22	7:CG:134:ALA:O	2.20	0.42
8:CH:45:ILE:HG22	8:CH:62:TYR:O	2.20	0.42
8:CH:68:ARG:HG2	8:CH:69:ARG:H	1.85	0.42
9:CI:82:ALA:HB1	9:CI:96:LEU:HD13	2.01	0.42
13:CM:97:PRO:O	13:CM:98:VAL:HA	2.19	0.42
15:CO:43:LEU:O	15:CO:45:VAL:N	2.53	0.42
16:CP:20:VAL:CG2	16:CP:21:VAL:N	2.82	0.42
16:CP:20:VAL:HG22	16:CP:21:VAL:H	1.85	0.42
17:CQ:29:HIS:ND1	17:CQ:29:HIS:C	2.78	0.42
20:CT:97:ALA:C	20:CT:99:LEU:N	2.78	0.42
22:D0:43:THR:O	22:D0:44:ARG:C	2.63	0.42
31:DA:271(E):U:C2	31:DA:271(F):C:C5	3.08	0.42
31:DA:287:C:C2'	31:DA:288:C:O5'	2.68	0.42
31:DA:322:A:H4'	31:DA:323:G:OP2	2.20	0.42
31:DA:364:C:O2	31:DA:364:C:C2'	2.66	0.42
31:DA:365:C:H2'	31:DA:366:C:O4'	2.19	0.42
31:DA:1005:C:O2	31:DA:1143:A:C6	2.73	0.42
31:DA:1217:C:H2'	31:DA:1218:C:O5'	2.20	0.42
31:DA:1465:G:C2'	31:DA:1466:G:O5'	2.68	0.42
31:DA:1553:A:N6	31:DA:1555:G:H1'	2.35	0.42
31:DA:1909:C:O2'	31:DA:1910:G:H5'	2.20	0.42
31:DA:2205:C:C2	31:DA:2220:G:N1	2.88	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2275:C:H6	31:DA:2275:C:C5'	2.33	0.42
31:DA:2402:C:C2'	31:DA:2403:C:H5'	2.50	0.42
31:DA:2652:C:C2'	31:DA:2653:U:C5'	2.87	0.42
31:DA:2664:G:H2'	31:DA:2665:A:O5'	2.20	0.42
32:DB:37:C:C6	32:DB:38:C:C5	3.08	0.42
33:DD:36:PRO:C	33:DD:37:LEU:HD23	2.45	0.42
34:DE:10:GLY:HA3	45:DT:8:LYS:CE	2.50	0.42
34:DE:57:LYS:C	34:DE:59:VAL:H	2.27	0.42
34:DE:82:ARG:O	34:DE:84:PHE:N	2.52	0.42
34:DE:111:ARG:CD	34:DE:160:TYR:CE1	3.03	0.42
35:DF:6:VAL:O	35:DF:124:LEU:HD12	2.20	0.42
35:DF:152:GLU:OE1	35:DF:191:ARG:HD2	2.20	0.42
36:DG:25:TYR:CE2	36:DG:32:PRO:HD3	2.55	0.42
42:DQ:20:ALA:HB2	42:DQ:99:PRO:CD	2.46	0.42
43:DR:103:ARG:HH11	48:DW:40:ASN:ND2	2.18	0.42
45:DT:13:ARG:HH21	45:DT:15:VAL:CG1	2.33	0.42
45:DT:67:SER:N	45:DT:70:VAL:O	2.52	0.42
45:DT:108:ARG:HB2	45:DT:111:ARG:CZ	2.50	0.42
46:DU:92:ARG:HD3	46:DU:94:ASN:HB3	2.01	0.42
47:DV:38:LEU:CG	47:DV:39:LEU:N	2.81	0.42
47:DV:90:PRO:O	47:DV:91:TYR:CB	2.68	0.42
49:DX:36:LYS:C	49:DX:38:GLU:H	2.28	0.42
1:AA:255:G:H5'	17:AQ:16:GLN:O	2.20	0.41
1:AA:299:G:C6	1:AA:300:A:N1	2.88	0.41
1:AA:954:G:C2	1:AA:955:U:C2	3.08	0.41
1:AA:1052:U:O4	1:AA:1200:C:C2	2.74	0.41
1:AA:1298:C:H2'	7:AG:114:ARG:HH12	1.85	0.41
1:AA:1465:C:H2'	1:AA:1466:C:O4'	2.19	0.41
2:AB:74:LYS:O	2:AB:78:GLN:HG3	2.19	0.41
2:AB:204:ASN:HB3	2:AB:210:SER:HB3	2.02	0.41
3:AC:52:LEU:HD23	3:AC:52:LEU:N	2.32	0.41
9:AI:40:LEU:C	9:AI:42:ARG:H	2.28	0.41
9:AI:105:ASP:C	9:AI:107:ARG:H	2.28	0.41
12:AL:25:PRO:C	12:AL:27:LEU:N	2.78	0.41
12:AL:84:LEU:C	12:AL:85:ILE:HD12	2.45	0.41
13:AM:97:PRO:O	13:AM:98:VAL:HA	2.20	0.41
16:AP:20:VAL:HG23	16:AP:34:GLU:C	2.45	0.41
16:AP:48:TRP:CD1	16:AP:48:TRP:N	2.74	0.41
18:AR:79:LEU:HD23	18:AR:80:PRO:CD	2.50	0.41
19:AS:44:MET:HA	19:AS:44:MET:CE	2.44	0.41
20:AT:56:MET:HG2	20:AT:84:LEU:CD1	2.47	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:97:ALA:C	20:AT:99:LEU:N	2.78	0.41
22:B0:26:TYR:O	22:B0:27:GLU:C	2.62	0.41
28:B6:45:LYS:HD3	28:B6:45:LYS:HA	1.87	0.41
30:B8:37:SER:HB2	30:B8:39:LYS:H	1.84	0.41
31:BA:108:U:O2'	31:BA:109:G:H5'	2.20	0.41
31:BA:271(T):C:O2	31:BA:271(T):C:C2'	2.65	0.41
31:BA:384:U:H2'	31:BA:385:C:C6	2.53	0.41
31:BA:614:U:O2	31:BA:614:U:O4'	2.34	0.41
31:BA:736:C:H42	31:BA:760:G:H1	1.68	0.41
31:BA:960:A:C5'	31:BA:961:C:OP2	2.65	0.41
31:BA:1028:A:H61	31:BA:1125:G:H2'	1.83	0.41
31:BA:1108:U:H2'	31:BA:1109:C:C5'	2.43	0.41
31:BA:1161:C:O2'	47:BV:8:GLY:HA2	2.20	0.41
31:BA:1459:G:H5"	31:BA:1460:A:P	2.60	0.41
31:BA:1767:C:O2'	31:BA:1768:U:H5'	2.20	0.41
31:BA:1886:C:O5'	31:BA:1886:C:H6	2.03	0.41
31:BA:1894:C:H2'	31:BA:1895:C:H6	1.84	0.41
31:BA:1997:G:O2'	31:BA:1998:G:H5'	2.18	0.41
31:BA:2540:C:H2'	31:BA:2541:A:O4'	2.20	0.41
31:BA:2660:A:H2'	31:BA:2661:G:O5'	2.19	0.41
33:BD:10:THR:HG23	33:BD:13:ARG:HB3	2.01	0.41
33:BD:71:ASP:CG	33:BD:103:ARG:HH22	2.28	0.41
33:BD:267:SER:HA	33:BD:270:ILE:CG1	2.42	0.41
34:BE:111:ARG:HB2	34:BE:160:TYR:O	2.19	0.41
35:BF:24:LEU:O	35:BF:26:ALA:N	2.53	0.41
35:BF:60:SER:OG	35:BF:61:GLY:N	2.53	0.41
35:BF:63:LYS:NZ	35:BF:67:GLN:HB2	2.35	0.41
36:BG:55:LYS:NZ	36:BG:148:MET:HG3	2.35	0.41
36:BG:56:ALA:HA	36:BG:59:GLU:OE1	2.19	0.41
38:BI:53:ALA:O	38:BI:55:ALA:N	2.53	0.41
38:BI:145:VAL:HG12	38:BI:146:ALA:N	2.35	0.41
40:BO:10:VAL:O	40:BO:10:VAL:HG23	2.20	0.41
41:BP:7:ARG:C	41:BP:8:PRO:O	2.63	0.41
41:BP:106:LEU:O	41:BP:107:LYS:C	2.62	0.41
42:BQ:89:ASN:O	42:BQ:92:GLY:N	2.34	0.41
43:BR:56:LYS:HD2	43:BR:88:ARG:N	2.31	0.41
45:BT:115:ARG:HB3	45:BT:116:ALA:H	1.65	0.41
46:BU:39:LEU:HD23	46:BU:39:LEU:HA	1.74	0.41
46:BU:102:GLU:OE2	47:BV:2:PHE:CE1	2.73	0.41
48:BW:92:ARG:O	48:BW:93:ALA:HB3	2.20	0.41
50:BY:62:GLU:H	50:BY:62:GLU:CD	2.28	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BY:84:ARG:HB3	50:BY:85:VAL:H	1.64	0.41
51:BZ:11:GLU:CD	51:BZ:11:GLU:N	2.70	0.41
1:CA:246:A:C2	1:CA:282:A:C5	3.08	0.41
1:CA:308:C:H2'	1:CA:309:G:H8	1.84	0.41
1:CA:509:A:O2'	1:CA:510:A:O4'	2.36	0.41
1:CA:665:A:C5	1:CA:733:A:C5	3.08	0.41
1:CA:723:U:OP1	1:CA:723:U:H6	2.03	0.41
1:CA:971:G:OP1	1:CA:972:C:H5"	2.20	0.41
1:CA:1189:C:OP1	10:CJ:51:ARG:NH2	2.53	0.41
1:CA:1215:G:C5	1:CA:1216:G:N7	2.88	0.41
1:CA:1220:G:O3'	19:CS:36:ARG:HD3	2.20	0.41
1:CA:1371:G:C6	1:CA:1372:U:C4	3.08	0.41
1:CA:1413:A:C2	1:CA:1414:U:C2	3.07	0.41
1:CA:1434:A:H2'	1:CA:1435:G:O4'	2.19	0.41
2:CB:171:ALA:HA	2:CB:174:VAL:HG23	2.02	0.41
2:CB:178:ARG:HD3	2:CB:178:ARG:HA	1.71	0.41
4:CD:17:VAL:HG11	4:CD:197:PRO:CG	2.49	0.41
4:CD:18:LYS:HE3	4:CD:31:CYS:CB	2.50	0.41
4:CD:74:GLN:HE22	4:CD:137:SER:HB3	1.83	0.41
4:CD:153:ARG:HG2	4:CD:181:MET:SD	2.60	0.41
6:CF:12:PRO:HB3	6:CF:58:GLY:N	2.35	0.41
7:CG:111:ARG:CZ	7:CG:122:HIS:HB3	2.49	0.41
8:CH:58:TYR:C	8:CH:59:LEU:HD23	2.45	0.41
9:CI:46:ALA:C	9:CI:48:GLU:H	2.28	0.41
13:CM:83:ASP:CG	13:CM:84:ILE:N	2.78	0.41
19:CS:19:VAL:HG12	19:CS:19:VAL:O	2.18	0.41
26:D4:11:PRO:C	26:D4:13:ARG:N	2.78	0.41
26:D4:13:ARG:HA	36:DG:101:ILE:CD1	2.50	0.41
27:D5:40:LYS:HZ3	27:D5:46:CYS:CA	2.33	0.41
31:DA:103:A:C2'	31:DA:104:U:H5'	2.50	0.41
31:DA:511:U:H5"	31:DA:512:G:OP2	2.20	0.41
31:DA:792:G:H3'	31:DA:793:A:H5'	2.02	0.41
31:DA:954:G:C6	31:DA:955:C:C5	3.08	0.41
31:DA:1234:U:H2'	31:DA:1235:G:O4'	2.19	0.41
31:DA:1299:G:H5"	31:DA:1300:U:OP1	2.20	0.41
31:DA:1322:A:C6	31:DA:1323:U:C4	3.07	0.41
31:DA:1340:U:H4'	31:DA:1341:U:OP2	2.19	0.41
31:DA:1511:C:H2'	31:DA:1512:U:O5'	2.20	0.41
31:DA:1840:G:C6	31:DA:1841:U:C4	3.08	0.41
31:DA:2259:G:C8	31:DA:2427:C:C4	3.08	0.41
31:DA:2335:A:O2'	31:DA:2336:A:C5'	2.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2399:G:C4	31:DA:2400:G:C8	3.07	0.41
31:DA:2511:U:O4	31:DA:2575:C:N3	2.53	0.41
31:DA:2877:G:O2'	31:DA:2878:U:H5'	2.20	0.41
33:DD:10:THR:O	33:DD:11:PRO:O	2.37	0.41
33:DD:80:ALA:O	33:DD:81:ALA:HB2	2.20	0.41
33:DD:119:ALA:CB	33:DD:130:ALA:HB3	2.50	0.41
33:DD:265:PRO:C	33:DD:266:SER:O	2.63	0.41
34:DE:119:ARG:HG2	34:DE:160:TYR:HB2	2.02	0.41
35:DF:60:SER:OG	35:DF:61:GLY:N	2.53	0.41
35:DF:64:ILE:C	35:DF:65:TRP:CD1	2.98	0.41
35:DF:164:ARG:NH1	35:DF:164:ARG:CG	2.79	0.41
36:DG:5:VAL:O	36:DG:6:ALA:C	2.63	0.41
36:DG:11:TYR:O	36:DG:16:ARG:HG2	2.20	0.41
39:DN:65:LYS:O	39:DN:69:GLN:CB	2.68	0.41
39:DN:78:TYR:HD1	39:DN:79:PRO:N	2.17	0.41
40:DO:7:TYR:CE1	40:DO:20:MET:HE3	2.42	0.41
41:DP:61:ARG:H	41:DP:61:ARG:CD	2.32	0.41
42:DQ:141:GLN:HG2	51:DZ:72:ARG:HA	2.00	0.41
43:DR:107:ASP:OD2	43:DR:107:ASP:C	2.62	0.41
47:DV:25:LEU:C	47:DV:27:ALA:N	2.78	0.41
1:AA:81:U:C4	1:AA:88:A:N6	2.88	0.41
1:AA:102:G:O2'	1:AA:151:A:N3	2.47	0.41
1:AA:262:A:C6	1:AA:263:A:N6	2.88	0.41
1:AA:457:C:O2'	1:AA:458:C:H5'	2.19	0.41
1:AA:503:C:OP2	12:AL:116:SER:OG	2.33	0.41
1:AA:740:U:H4'	15:AO:42:HIS:CD2	2.54	0.41
1:AA:953:G:O6	1:AA:1228:C:N4	2.53	0.41
1:AA:1229:A:OP2	13:AM:114:ARG:HD3	2.20	0.41
1:AA:1287:A:N6	1:AA:1288:A:N6	2.68	0.41
1:AA:1373:G:H8	1:AA:1373:G:O5'	2.02	0.41
1:AA:1386:G:N3	1:AA:1387:G:C8	2.87	0.41
1:AA:1452:C:OP1	1:AA:1456:G:C6	2.74	0.41
2:AB:8:LYS:HA	2:AB:11:LEU:HD12	2.02	0.41
4:AD:65:ARG:HA	4:AD:75:PHE:CE1	2.54	0.41
4:AD:108:LEU:O	4:AD:110:PHE:CD1	2.73	0.41
5:AE:12:LEU:HD22	5:AE:13:ILE:N	2.35	0.41
5:AE:101:ILE:CD1	5:AE:119:LEU:HA	2.40	0.41
6:AF:91:VAL:CG1	18:AR:72:ARG:HH12	2.30	0.41
9:AI:86:VAL:HB	9:AI:96:LEU:HD22	2.01	0.41
11:AK:126:ARG:O	11:AK:127:LYS:C	2.62	0.41
15:AO:12:ILE:HG12	15:AO:31:LEU:HD11	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:75:ALA:HA	19:AS:76:PRO:HD2	1.95	0.41
20:AT:82:SER:O	20:AT:86:ARG:CB	2.68	0.41
27:B5:4:HIS:CB	27:B5:5:PRO:HD3	2.46	0.41
28:B6:24:GLU:OE1	28:B6:24:GLU:HA	2.20	0.41
28:B6:26:ASN:ND2	28:B6:32:ASN:HD21	2.17	0.41
30:B8:26:LYS:HE2	30:B8:47:LYS:CG	2.50	0.41
30:B8:29:LYS:O	30:B8:29:LYS:CG	2.68	0.41
31:BA:190:A:P	31:BA:205:G:H22	2.42	0.41
31:BA:272(J):C:O2'	31:BA:274:G:OP1	2.36	0.41
31:BA:394:A:C6	31:BA:395:U:C4	3.08	0.41
31:BA:448:U:C4	31:BA:583:G:H1'	2.55	0.41
31:BA:790:C:H6	31:BA:790:C:H2'	1.65	0.41
31:BA:954:G:C5	31:BA:955:C:C5	3.08	0.41
31:BA:1380:G:N2	31:BA:1570:A:H2	2.18	0.41
31:BA:1839:G:C8	31:BA:1927:A:C1'	2.96	0.41
32:BB:88:C:H2'	32:BB:89:G:C8	2.55	0.41
33:BD:35:LYS:CA	33:BD:64:ILE:CG2	2.97	0.41
33:BD:80:ALA:O	33:BD:81:ALA:HB2	2.20	0.41
34:BE:9:VAL:HG22	34:BE:25:VAL:HB	2.02	0.41
35:BF:66:PRO:O	35:BF:67:GLN:CB	2.62	0.41
36:BG:60:LEU:O	36:BG:60:LEU:HD13	2.20	0.41
38:BI:44:LEU:HD23	38:BI:44:LEU:HA	1.61	0.41
40:BO:26:LYS:HB2	40:BO:30:ALA:CB	2.50	0.41
40:BO:122:LEU:HD23	40:BO:122:LEU:HA	1.76	0.41
42:BQ:29:PHE:CD1	42:BQ:29:PHE:N	2.87	0.41
42:BQ:78:PRO:O	42:BQ:79:LEU:CB	2.64	0.41
43:BR:103:ARG:NH1	48:BW:40:ASN:ND2	2.69	0.41
45:BT:35:LYS:O	45:BT:38:ASN:N	2.54	0.41
45:BT:106:SER:O	45:BT:107:ASP:HB3	2.20	0.41
47:BV:82:ARG:HG2	47:BV:82:ARG:NH1	2.22	0.41
49:BX:50:LYS:O	49:BX:82:GLN:N	2.50	0.41
50:BY:54:LYS:HG2	50:BY:55:TYR:CD2	2.55	0.41
51:BZ:151:HIS:ND1	51:BZ:170:THR:HG22	2.35	0.41
1:CA:64:G:OP1	1:CA:64:G:H3'	2.19	0.41
1:CA:78:G:N2	1:CA:91:C:H42	2.16	0.41
1:CA:112:G:N3	1:CA:112:G:H2'	2.36	0.41
1:CA:189(C):C:H2'	1:CA:189(D):C:C5'	2.49	0.41
1:CA:266:G:C8	1:CA:266:G:H5'	2.55	0.41
1:CA:448:A:C2	1:CA:449:C:C4	3.08	0.41
1:CA:814:A:C8	1:CA:816:A:C8	3.08	0.41
1:CA:949:A:OP1	13:CM:101:GLN:HB3	2.19	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:75:LYS:O	2:CB:75:LYS:HD3	2.20	0.41
2:CB:97:TRP:CZ3	2:CB:173:ALA:HA	2.54	0.41
2:CB:101:MET:HG2	2:CB:108:ILE:HG21	2.01	0.41
2:CB:144:ARG:O	2:CB:145:LEU:C	2.63	0.41
4:CD:19:LEU:HD13	4:CD:21:LEU:HD11	2.01	0.41
7:CG:88:PRO:HG3	7:CG:148:ASN:O	2.20	0.41
8:CH:6:ILE:O	8:CH:8:ASP:N	2.53	0.41
8:CH:36:LEU:C	8:CH:38:ILE:N	2.77	0.41
18:CR:43:PHE:O	18:CR:44:LEU:HD12	2.20	0.41
23:D1:37:ILE:HG23	31:DA:2080:G:O5'	2.20	0.41
27:D5:43:HIS:CD2	31:DA:2815:C:O2'	2.73	0.41
31:DA:299:A:C5	31:DA:322:A:C2	3.08	0.41
31:DA:528:A:N1	31:DA:2043:C:O5'	2.53	0.41
31:DA:814:C:N4	41:DP:27:HIS:NE2	2.67	0.41
31:DA:902:C:O2'	31:DA:903:C:H5'	2.20	0.41
31:DA:948:G:C6	31:DA:949:C:C4	3.08	0.41
31:DA:958:U:C2'	31:DA:959:A:OP1	2.68	0.41
31:DA:1047:G:H2'	31:DA:1110:G:C2	2.55	0.41
31:DA:1157:G:H2'	31:DA:1158:C:H5'	2.01	0.41
31:DA:1288:U:C2	31:DA:1327:C:O2	2.72	0.41
31:DA:1288:U:H4'	31:DA:1289:C:OP2	2.21	0.41
31:DA:1504:C:O2'	31:DA:1505:C:C5'	2.69	0.41
31:DA:1718:G:O2'	31:DA:1719:G:H5'	2.20	0.41
32:DB:75:G:C8	32:DB:75:G:C5'	2.96	0.41
33:DD:123:ALA:HA	33:DD:124:PRO:HD2	1.93	0.41
34:DE:21:VAL:O	34:DE:21:VAL:HG23	2.19	0.41
35:DF:140:LEU:CD2	35:DF:170:LEU:HD11	2.49	0.41
38:DI:57:ARG:C	38:DI:59:ALA:H	2.28	0.41
39:DN:45:ASN:H	39:DN:45:ASN:ND2	1.94	0.41
39:DN:128:HIS:O	39:DN:130:HIS:HB3	2.19	0.41
42:DQ:23:GLY:HA3	42:DQ:99:PRO:C	2.45	0.41
47:DV:25:LEU:CG	47:DV:94:LEU:HD13	2.47	0.41
51:DZ:27:VAL:HG13	51:DZ:29:TYR:HD2	1.85	0.41
1:AA:200:G:N2	1:AA:218:C:C2	2.89	0.41
1:AA:565:U:C6	1:AA:566:G:C8	3.08	0.41
1:AA:671:G:C5	1:AA:672:U:C5	3.08	0.41
1:AA:674:G:H2'	1:AA:675:A:C8	2.44	0.41
1:AA:949:A:OP1	13:AM:101:GLN:HB3	2.20	0.41
1:AA:1005:A:H5"	1:AA:1006:C:OP2	2.20	0.41
1:AA:1313:U:OP2	19:AS:6:LYS:HB3	2.20	0.41
1:AA:1478:C:O2'	1:AA:1479:C:H5'	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:193:ASP:OD2	2:AB:193:ASP:O	2.37	0.41
2:AB:219:VAL:O	2:AB:222:ILE:HB	2.21	0.41
4:AD:101:LEU:C	4:AD:103:ASN:N	2.77	0.41
4:AD:196:LEU:HD12	4:AD:196:LEU:N	2.35	0.41
5:AE:50:GLU:OE2	5:AE:51:VAL:HG23	2.19	0.41
6:AF:5:GLU:O	6:AF:7:ASN:ND2	2.53	0.41
8:AH:7:ALA:HB2	8:AH:85:ARG:HD2	2.03	0.41
12:AL:55:VAL:HA	12:AL:70:ILE:HD13	2.02	0.41
19:AS:69:HIS:HB2	19:AS:74:PHE:HE2	1.84	0.41
26:B4:13:ARG:HA	36:BG:101:ILE:CD1	2.51	0.41
27:B5:31:VAL:HB	27:B5:32:PRO:HD2	2.01	0.41
27:B5:47:PRO:C	27:B5:48:GLU:HG3	2.45	0.41
28:B6:46:HIS:ND1	28:B6:46:HIS:O	2.53	0.41
31:BA:205:G:HO2'	31:BA:206:U:P	2.44	0.41
31:BA:271(Q):G:O2'	31:BA:271(R):G:H8	2.03	0.41
31:BA:518:G:H2'	31:BA:519:U:C6	2.55	0.41
31:BA:620:G:H4'	31:BA:621:A:C5'	2.45	0.41
31:BA:828:U:O2	31:BA:828:U:C3'	2.68	0.41
31:BA:960:A:H5"	31:BA:961:C:P	2.61	0.41
31:BA:1142(A):A:N9	31:BA:1144:G:N7	2.68	0.41
31:BA:1653:G:H4'	31:BA:1654:A:O5'	2.20	0.41
31:BA:1686:C:C4	31:BA:1687:G:C5	3.08	0.41
31:BA:2191:G:H2'	31:BA:2192:G:O5'	2.20	0.41
31:BA:2849:U:P	45:BT:95:ARG:HH12	2.42	0.41
31:BA:2887:U:O2'	31:BA:2888:C:H5'	2.20	0.41
32:BB:110:G:N1	32:BB:111:G:C5	2.88	0.41
33:BD:28:GLU:CB	33:BD:29:PRO:CD	2.96	0.41
34:BE:52:LEU:HB3	34:BE:75:VAL:CG2	2.48	0.41
34:BE:55:ASN:HA	34:BE:56:PRO:HD3	1.81	0.41
35:BF:7:TYR:HD2	35:BF:16:GLY:HA3	1.86	0.41
35:BF:29:ASN:OD1	35:BF:29:ASN:C	2.63	0.41
37:BH:40:GLU:O	37:BH:41:MET:CG	2.68	0.41
39:BN:119:ARG:HG3	39:BN:119:ARG:NH1	2.35	0.41
42:BQ:54:MET:HE3	42:BQ:64:ILE:CG2	2.50	0.41
42:BQ:58:PHE:O	42:BQ:58:PHE:HD1	2.03	0.41
42:BQ:86:GLY:C	42:BQ:88:GLY:N	2.73	0.41
45:BT:53:ARG:NH1	45:BT:53:ARG:CG	2.82	0.41
48:BW:1:MET:HG3	48:BW:2:GLU:N	2.35	0.41
49:BX:40:LYS:HG2	49:BX:41:ASN:H	1.84	0.41
49:BX:68:ARG:HG3	49:BX:69:TYR:CD1	2.55	0.41
50:BY:37:VAL:C	50:BY:66:PRO:O	2.63	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BZ:29:TYR:HA	51:BZ:33:LEU:O	2.20	0.41
51:BZ:110:GLY:H	51:BZ:111:VAL:HG12	1.86	0.41
1:CA:100:C:H2'	1:CA:101:A:O4'	2.20	0.41
1:CA:604:G:C6	1:CA:605:U:N3	2.88	0.41
1:CA:624:C:O3'	16:CP:10:GLY:HA2	2.20	0.41
1:CA:719:C:N4	18:CR:71:LYS:HE2	2.35	0.41
1:CA:954:G:C2	1:CA:955:U:C2	3.08	0.41
1:CA:1054:C:OP1	1:CA:1197:G:OP2	2.38	0.41
1:CA:1287:A:N6	1:CA:1288:A:N6	2.68	0.41
1:CA:1349:A:C2	1:CA:1350:A:H1'	2.54	0.41
1:CA:1350:A:C5	1:CA:1351:U:C4	3.08	0.41
2:CB:87:ARG:NH2	2:CB:233:SER:HB3	2.34	0.41
2:CB:171:ALA:HA	2:CB:174:VAL:CG2	2.50	0.41
7:CG:37:ASN:HD21	9:CI:40:LEU:CD2	2.32	0.41
8:CH:44:PHE:HA	8:CH:79:VAL:CG1	2.50	0.41
8:CH:58:TYR:N	8:CH:58:TYR:HD1	2.18	0.41
9:CI:86:VAL:HB	9:CI:96:LEU:HD22	2.02	0.41
11:CK:111:ASP:HA	18:CR:84:LYS:CG	2.38	0.41
12:CL:58:VAL:O	12:CL:65:GLU:HA	2.20	0.41
13:CM:29:ARG:HA	13:CM:32:GLU:HB3	2.01	0.41
13:CM:82:MET:O	13:CM:82:MET:HG2	2.20	0.41
24:D2:30:ARG:H	24:D2:30:ARG:HD2	1.85	0.41
25:D3:17:LYS:O	25:D3:18:ASP:C	2.63	0.41
25:D3:31:LEU:HD23	25:D3:31:LEU:HA	1.89	0.41
30:D8:29:LYS:O	30:D8:29:LYS:CG	2.66	0.41
30:D8:40:GLU:CD	30:D8:40:GLU:C	2.88	0.41
31:DA:108:U:H2'	31:DA:109:G:H8	1.84	0.41
31:DA:260:G:N2	31:DA:261:G:H1'	2.35	0.41
31:DA:271(Q):G:O2'	31:DA:271(R):G:H8	2.03	0.41
31:DA:323:G:H1'	31:DA:1205:U:O2	2.20	0.41
31:DA:358:U:C6	31:DA:358:U:C3'	3.02	0.41
31:DA:479:A:C2	31:DA:480:A:C5	3.07	0.41
31:DA:619:G:O6	35:DF:103:LYS:HE2	2.19	0.41
31:DA:620:G:C4'	31:DA:621:A:H5"	2.46	0.41
31:DA:856:C:C3'	31:DA:857:C:C6	2.99	0.41
31:DA:1112:G:O2'	31:DA:1113:U:H5"	2.20	0.41
31:DA:1221(A):C:C2	31:DA:1229:G:C2	3.08	0.41
31:DA:1313:U:H2'	31:DA:1610:A:N1	2.36	0.41
31:DA:1459:G:H5"	31:DA:1460:A:P	2.60	0.41
31:DA:1669:A:C8	40:DO:5:GLN:HG3	2.55	0.41
31:DA:1721:G:N1	31:DA:1739:U:OP2	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:2026:C:H2'	31:DA:2027:G:O5'	2.20	0.41
31:DA:2046:G:H2'	31:DA:2047:U:H6	1.84	0.41
31:DA:2645:G:H3'	31:DA:2646:C:C5'	2.50	0.41
31:DA:2808:U:C2'	31:DA:2809:A:H5'	2.50	0.41
32:DB:96:U:H2'	32:DB:97:G:C8	2.56	0.41
33:DD:96:HIS:CE1	33:DD:102:LYS:HE2	2.55	0.41
33:DD:119:ALA:HB2	33:DD:130:ALA:HB3	2.02	0.41
33:DD:248:SER:O	33:DD:250:TRP:N	2.54	0.41
36:DG:47:LYS:HG3	36:DG:82:LEU:CD1	2.50	0.41
37:DH:152:ARG:HD2	37:DH:152:ARG:HA	1.75	0.41
41:DP:57:THR:HB	41:DP:59:LEU:N	2.36	0.41
41:DP:112:LEU:CD2	41:DP:113:LYS:N	2.83	0.41
47:DV:86:GLY:O	47:DV:87:HIS:CD2	2.72	0.41
49:DX:58:HIS:O	49:DX:59:VAL:HG13	2.20	0.41
50:DY:31:LEU:HA	50:DY:31:LEU:HD13	1.58	0.41
50:DY:88:LYS:NZ	50:DY:93:GLY:CA	2.84	0.41
1:AA:39:G:C6	1:AA:40:C:C5	3.09	0.41
1:AA:509:A:H8	1:AA:509:A:O5'	2.02	0.41
1:AA:734:G:C2	1:AA:735:C:C2	3.08	0.41
1:AA:749:C:H2'	1:AA:750:G:H8	1.85	0.41
1:AA:996:A:H2'	1:AA:997:U:O4'	2.20	0.41
1:AA:1158:C:N4	1:AA:1160:G:C6	2.88	0.41
1:AA:1362:C:O2'	1:AA:1363:C:H5"	2.19	0.41
1:AA:1376:U:O2'	1:AA:1377:A:H5'	2.21	0.41
1:AA:1429:C:H2'	1:AA:1430:C:C6	2.56	0.41
3:AC:195:VAL:C	3:AC:196:LEU:HD22	2.45	0.41
4:AD:14:ARG:HD3	4:AD:39:PRO:HB3	2.02	0.41
4:AD:19:LEU:HD13	4:AD:21:LEU:HD11	2.02	0.41
4:AD:161:ASN:O	4:AD:165:MET:HG2	2.21	0.41
12:AL:126:LYS:HG3	12:AL:128:ALA:H	1.86	0.41
13:AM:34:LEU:HD13	13:AM:41:PRO:CG	2.35	0.41
17:AQ:67:LYS:O	17:AQ:68:ARG:HB3	2.21	0.41
22:B0:16:SER:OG	31:BA:2261:C:H3'	2.20	0.41
23:B1:62:VAL:HG22	23:B1:63:ALA:H	1.84	0.41
31:BA:17:G:H4'	46:BU:25:TRP:CZ2	2.54	0.41
31:BA:154:G:N1	31:BA:172:C:N4	2.31	0.41
31:BA:196:A:C4	31:BA:805:G:O6	2.73	0.41
31:BA:370:G:H5"	31:BA:423:A:C6	2.54	0.41
31:BA:479:A:C2	31:BA:480:A:C5	3.07	0.41
31:BA:1141:U:H4'	31:BA:1142(A):A:O4'	2.20	0.41
31:BA:1170:G:N2	31:BA:1180:C:C2	2.89	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1332:G:N1	31:BA:1609:A:O2'	2.45	0.41
31:BA:1655:A:H3'	31:BA:1656:C:H6	1.85	0.41
31:BA:1895:C:C2	31:BA:1896:G:C8	3.08	0.41
31:BA:2078:C:O2'	31:BA:2079:U:H5'	2.20	0.41
31:BA:2199:A:OP2	31:BA:2200:C:H5	2.03	0.41
31:BA:2271:G:H8	31:BA:2271:G:O5'	2.03	0.41
31:BA:2287:A:O2'	31:BA:2288:A:H3'	2.20	0.41
31:BA:2460:U:C2	31:BA:2461:C:C6	3.07	0.41
31:BA:2580:U:H4'	34:BE:130:GLY:HA3	2.02	0.41
31:BA:2626:C:O2'	31:BA:2627:G:H5'	2.20	0.41
31:BA:2646:C:H6	31:BA:2646:C:O5'	2.02	0.41
31:BA:2801(A):A:O4'	31:BA:2802:G:H2'	2.19	0.41
34:BE:21:VAL:O	34:BE:21:VAL:HG23	2.21	0.41
34:BE:57:LYS:C	34:BE:59:VAL:N	2.79	0.41
36:BG:62:LEU:C	36:BG:64:THR:H	2.27	0.41
37:BH:13:LYS:O	37:BH:15:VAL:N	2.54	0.41
38:BI:37:VAL:CG1	38:BI:38:LEU:H	2.33	0.41
40:BO:22:ILE:HA	40:BO:22:ILE:HD13	1.48	0.41
41:BP:138:LEU:C	41:BP:138:LEU:HD12	2.44	0.41
43:BR:30:THR:HG22	43:BR:31:HIS:ND1	2.36	0.41
49:BX:16:LYS:O	49:BX:19:ALA:HB3	2.21	0.41
51:BZ:156:LYS:O	51:BZ:158:PRO:CD	2.69	0.41
1:CA:367:U:O2	1:CA:369:C:C6	2.73	0.41
1:CA:568:G:N3	1:CA:574:A:H2	2.18	0.41
1:CA:946:A:C2	1:CA:1236:A:C2	3.09	0.41
1:CA:1003:G:H2'	1:CA:1004:A:O4'	2.19	0.41
1:CA:1068:G:OP2	1:CA:1094:G:H5'	2.21	0.41
1:CA:1226:C:H42	13:CM:104:ARG:HD2	1.85	0.41
1:CA:1285:A:C4'	1:CA:1286:A:O5'	2.69	0.41
1:CA:1347:G:H22	1:CA:1374:A:P	2.43	0.41
1:CA:1347:G:N2	1:CA:1373:G:H2'	2.35	0.41
1:CA:1498:U:C1'	1:CA:1499:A:OP2	2.69	0.41
2:CB:21:ARG:C	2:CB:23:ARG:H	2.28	0.41
4:CD:206:PHE:CD2	4:CD:207:TYR:CD2	3.08	0.41
5:CE:88:LYS:HB3	5:CE:123:LEU:HB2	2.01	0.41
20:CT:58:LYS:O	20:CT:62:LEU:HB2	2.21	0.41
27:D5:2:ALA:N	31:DA:747:U:C2	2.88	0.41
27:D5:40:LYS:HZ3	27:D5:46:CYS:HB3	1.85	0.41
30:D8:25:MET:SD	41:DP:64:LYS:HD2	2.61	0.41
30:D8:27:THR:HG22	41:DP:62:LEU:HD13	2.02	0.41
31:DA:271(P):C:O5'	38:DI:45:LYS:HE3	2.19	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:332:A:C2	31:DA:335:C:C5	3.08	0.41
31:DA:444:C:C2'	31:DA:445:C:O5'	2.69	0.41
31:DA:826:U:H2'	31:DA:828:U:O4'	2.19	0.41
31:DA:911:A:C5	42:DQ:9:TYR:CE2	3.09	0.41
31:DA:979:G:H3'	31:DA:980:A:H5"	2.02	0.41
31:DA:1181:C:H2'	31:DA:1182:A:H8	1.85	0.41
31:DA:1279:G:H5'	43:DR:34:ILE:CD1	2.51	0.41
31:DA:1446:C:H2'	31:DA:1447:G:C8	2.56	0.41
31:DA:1467:C:H4'	31:DA:1467:C:OP1	2.21	0.41
31:DA:1756:G:H4'	31:DA:1758:G:O4'	2.19	0.41
31:DA:2037:G:O2'	31:DA:2038:G:H5'	2.19	0.41
31:DA:2063:C:C5	31:DA:2064:C:C5	3.08	0.41
31:DA:2208:A:H1'	31:DA:2219:G:C6	2.56	0.41
31:DA:2224:G:OP1	33:DD:268:ARG:NH1	2.53	0.41
32:DB:59:A:H2'	32:DB:60:C:H6	1.84	0.41
33:DD:25:THR:HG22	33:DD:82:ILE:C	2.45	0.41
33:DD:92:ILE:HD13	33:DD:104:TYR:CD2	2.55	0.41
34:DE:182:LEU:HD12	34:DE:183:LEU:N	2.35	0.41
35:DF:81:PRO:CB	35:DF:89:VAL:HG23	2.50	0.41
35:DF:144:LYS:C	35:DF:146:ALA:N	2.78	0.41
36:DG:39:ILE:HD12	36:DG:40:ASN:N	2.34	0.41
37:DH:71:LEU:HD12	37:DH:71:LEU:HA	1.70	0.41
37:DH:170:ARG:H	37:DH:170:ARG:HD2	1.85	0.41
42:DQ:12:GLN:O	42:DQ:13:GLN:O	2.37	0.41
42:DQ:16:ARG:HB2	42:DQ:16:ARG:NH1	2.36	0.41
42:DQ:23:GLY:HA2	42:DQ:101:ARG:HB2	2.02	0.41
42:DQ:58:PHE:O	42:DQ:59:ARG:C	2.62	0.41
45:DT:16:ARG:H	45:DT:79:HIS:CD2	2.39	0.41
47:DV:54:GLY:O	47:DV:56:SER:N	2.52	0.41
51:DZ:6:LYS:HE3	51:DZ:6:LYS:HB2	1.78	0.41
51:DZ:140:ASP:O	51:DZ:141:VAL:C	2.63	0.41
1:AA:16:A:C2	1:AA:17:U:C6	3.09	0.41
1:AA:66:G:C4'	1:AA:173:U:C4	3.03	0.41
1:AA:146:G:N2	1:AA:147:G:H1'	2.35	0.41
1:AA:179:A:H2'	1:AA:180:U:C6	2.56	0.41
1:AA:197:A:N6	1:AA:221:C:H4'	2.35	0.41
1:AA:981:U:O5'	1:AA:981:U:H6	2.02	0.41
1:AA:1125:U:H2'	1:AA:1126:U:OP2	2.20	0.41
1:AA:1386:G:C2	1:AA:1387:G:N7	2.87	0.41
1:AA:1477:C:H2'	1:AA:1478:C:H6	1.84	0.41
1:AA:1501:C:H5"	1:AA:1502:A:OP2	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:20:GLU:CG	2:AB:191:ASP:HB2	2.44	0.41
4:AD:13:ARG:HD2	4:AD:38:TYR:O	2.20	0.41
4:AD:102:ASP:HB2	4:AD:118:ARG:HG3	2.01	0.41
4:AD:150:GLU:CD	4:AD:150:GLU:N	2.77	0.41
8:AH:13:ILE:HG22	8:AH:14:ARG:N	2.36	0.41
12:AL:33:ARG:CG	12:AL:60:LEU:HD12	2.49	0.41
15:AO:81:LEU:HD11	15:AO:85:LEU:CD1	2.46	0.41
17:AQ:43:LEU:HD23	17:AQ:43:LEU:N	2.36	0.41
17:AQ:59:ILE:HG21	17:AQ:71:PHE:HB3	1.99	0.41
24:B2:17:SER:C	24:B2:21:LEU:HD12	2.42	0.41
24:B2:37:PHE:O	24:B2:37:PHE:HD2	2.04	0.41
25:B3:46:ASN:O	25:B3:50:VAL:HG22	2.20	0.41
27:B5:31:VAL:O	27:B5:39:MET:HA	2.20	0.41
31:BA:49:A:H5"	31:BA:51:G:O4'	2.20	0.41
31:BA:90:U:O2'	31:BA:92:A:C5'	2.69	0.41
31:BA:118:A:H3'	31:BA:119:A:C5'	2.51	0.41
31:BA:257:A:C8	31:BA:258:G:C8	3.08	0.41
31:BA:370:G:H3'	31:BA:423:A:C5	2.54	0.41
31:BA:449:A:OP1	35:BF:84:VAL:O	2.39	0.41
31:BA:473:G:C2'	31:BA:474:G:O5'	2.68	0.41
31:BA:548:A:HO2'	31:BA:549:G:P	2.44	0.41
31:BA:751:A:H5'	48:BW:90:ARG:CA	2.45	0.41
31:BA:892:G:C8	31:BA:893:C:C4	3.09	0.41
31:BA:1022:G:C5	31:BA:1140:C:C4	3.09	0.41
31:BA:1049:C:O2	31:BA:1050:A:N7	2.53	0.41
31:BA:1170:G:OP2	31:BA:1170:G:H8	2.04	0.41
31:BA:1246:A:P	41:BP:18:ARG:HD3	2.60	0.41
31:BA:1467:C:OP1	31:BA:1467:C:C4'	2.68	0.41
31:BA:1520:G:H3'	31:BA:1523:U:H6	1.86	0.41
31:BA:1791:A:H3'	31:BA:1792:G:H8	1.86	0.41
31:BA:1805:U:O2'	31:BA:1806:C:H5'	2.21	0.41
31:BA:1902:C:OP1	33:BD:242:ARG:HD3	2.21	0.41
31:BA:2310:A:H5'	31:BA:2310:A:N3	2.35	0.41
31:BA:2371:G:C6	31:BA:2372:G:N7	2.88	0.41
31:BA:2395:C:H2'	31:BA:2396:G:O4'	2.20	0.41
31:BA:2420:C:H6	31:BA:2420:C:O5'	2.04	0.41
31:BA:2796:U:O2	31:BA:2796:U:O4'	2.38	0.41
32:BB:81:G:C5'	32:BB:82:G:OP2	2.68	0.41
32:BB:82:G:H2'	32:BB:83:G:C5'	2.51	0.41
33:BD:76:PRO:O	33:BD:98:VAL:HG22	2.21	0.41
33:BD:131:LEU:HB2	33:BD:136:ILE:CD1	2.38	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BD:257:LEU:CD2	33:BD:257:LEU:C	2.93	0.41
34:BE:53:PRO:HB2	34:BE:54:GLN:H	1.58	0.41
34:BE:182:LEU:HD12	34:BE:183:LEU:N	2.35	0.41
36:BG:18:GLU:O	36:BG:18:GLU:HG3	2.19	0.41
37:BH:20:ALA:HB3	37:BH:23:ARG:HG3	2.03	0.41
37:BH:71:LEU:HD12	37:BH:71:LEU:HA	1.68	0.41
38:BI:101:LEU:O	38:BI:101:LEU:HD12	2.20	0.41
38:BI:111:PRO:HG2	38:BI:112:LYS:HG3	2.00	0.41
41:BP:5:ASP:CG	41:BP:6:LEU:HD23	2.46	0.41
41:BP:81:GLN:HG2	41:BP:106:LEU:HD12	2.01	0.41
43:BR:87:TYR:CE1	43:BR:117:VAL:HG12	2.52	0.41
44:BS:66:ALA:HA	44:BS:69:VAL:HG12	2.01	0.41
44:BS:97:ARG:NE	44:BS:97:ARG:O	2.54	0.41
45:BT:24:PRO:HA	45:BT:49:VAL:O	2.21	0.41
45:BT:38:ASN:ND2	45:BT:40:THR:H	2.18	0.41
49:BX:57:LEU:N	49:BX:57:LEU:CD1	2.81	0.41
50:BY:16:ALA:HA	50:BY:21:LYS:CD	2.50	0.41
50:BY:28:LYS:CD	50:BY:37:VAL:HG12	2.50	0.41
1:CA:12:U:H3	1:CA:22:G:H1	1.66	0.41
1:CA:513:C:O2	1:CA:513:C:H2'	2.20	0.41
1:CA:659:U:H2'	1:CA:659:U:O2	2.19	0.41
1:CA:747:C:C5	1:CA:748:C:N3	2.89	0.41
1:CA:774:G:N2	1:CA:806:C:C2	2.88	0.41
1:CA:831:U:O2'	1:CA:832:C:H5'	2.21	0.41
1:CA:977:A:C8	1:CA:1223:C:N3	2.89	0.41
1:CA:1072:G:C5	1:CA:1073:U:C5	3.09	0.41
1:CA:1125:U:H2'	1:CA:1126:U:OP2	2.20	0.41
1:CA:1137:C:H6	1:CA:1137:C:H3'	1.85	0.41
1:CA:1281:U:H3'	1:CA:1282:C:H6	1.84	0.41
1:CA:1298:C:C6	7:CG:114:ARG:NH1	2.89	0.41
1:CA:1429:C:H2'	1:CA:1430:C:C6	2.55	0.41
2:CB:204:ASN:HD22	2:CB:205:ASP:N	2.19	0.41
3:CC:134:ILE:C	3:CC:136:GLN:N	2.78	0.41
5:CE:68:GLU:O	5:CE:70:PRO:HD3	2.21	0.41
5:CE:139:LEU:O	5:CE:140:ARG:C	2.63	0.41
5:CE:146:ALA:C	5:CE:148:VAL:N	2.78	0.41
6:CF:89:MET:SD	18:CR:76:LEU:HD21	2.60	0.41
11:CK:61:ALA:CB	11:CK:90:GLY:O	2.69	0.41
13:CM:40:ASN:HA	13:CM:41:PRO:HD3	1.82	0.41
14:CN:36:PHE:HD1	14:CN:37:PHE:CD2	2.39	0.41
17:CQ:19:VAL:HG23	17:CQ:44:ALA:HB3	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:69:GLY:O	20:CT:73:HIS:NE2	2.53	0.41
22:D0:70:GLN:O	22:D0:77:ARG:HA	2.20	0.41
23:D1:69:LYS:NZ	23:D1:69:LYS:HB2	2.36	0.41
24:D2:47:ASN:HA	24:D2:51:ARG:HB3	2.02	0.41
25:D3:7:LYS:O	25:D3:9:VAL:HG13	2.20	0.41
27:D5:47:PRO:C	27:D5:48:GLU:OE2	2.63	0.41
28:D6:9:LEU:HD13	28:D6:11:LEU:CD2	2.50	0.41
30:D8:40:GLU:C	30:D8:42:ARG:N	2.76	0.41
31:DA:196:A:O2'	31:DA:805:G:O6	2.29	0.41
31:DA:271(F):C:H2'	31:DA:271(G):C:C6	2.53	0.41
31:DA:581:C:H2'	31:DA:582:G:H8	1.84	0.41
31:DA:675:A:N6	31:DA:676:A:N6	2.68	0.41
31:DA:1170:G:N2	31:DA:1180:C:C2	2.88	0.41
31:DA:1356:G:C5	31:DA:1357:U:C5	3.07	0.41
31:DA:1410:G:C5	31:DA:1411:C:C5	3.08	0.41
31:DA:1553:A:C5	31:DA:1555:G:C4	3.09	0.41
31:DA:1836:C:H2'	31:DA:1837:C:H6	1.85	0.41
31:DA:1878:G:C2'	31:DA:1879:C:H5'	2.50	0.41
31:DA:2468:G:H5"	42:DQ:120:ILE:HD12	2.02	0.41
31:DA:2471:C:O2	31:DA:2471:C:H2'	2.19	0.41
31:DA:2680:C:H2'	31:DA:2681:C:O2	2.20	0.41
31:DA:2863:C:OP1	45:DT:93:ARG:NH1	2.53	0.41
33:DD:25:THR:O	33:DD:27:THR:CB	2.68	0.41
33:DD:35:LYS:HG2	33:DD:64:ILE:CA	2.49	0.41
33:DD:159:ALA:C	33:DD:161:THR:H	2.29	0.41
33:DD:162:SER:HB3	33:DD:195:ALA:HB1	2.02	0.41
35:DF:24:LEU:O	35:DF:26:ALA:N	2.54	0.41
35:DF:57:VAL:CG1	35:DF:59:TYR:CD1	2.99	0.41
35:DF:110:LEU:HD21	35:DF:181:LEU:HD23	2.01	0.41
36:DG:135:LEU:HD22	36:DG:155:MET:HE1	2.02	0.41
38:DI:56:LYS:NZ	38:DI:57:ARG:N	2.66	0.41
40:DO:26:LYS:HB2	40:DO:30:ALA:HB2	2.02	0.41
40:DO:60:ALA:CB	40:DO:86:ILE:HA	2.49	0.41
41:DP:86:LYS:HB3	41:DP:117:GLU:O	2.20	0.41
42:DQ:16:ARG:NH1	42:DQ:16:ARG:CB	2.83	0.41
45:DT:29:ARG:HG2	45:DT:86:ILE:H	1.86	0.41
46:DU:8:VAL:CG1	46:DU:12:ARG:HG3	2.49	0.41
47:DV:19:LYS:HG3	47:DV:20:LEU:CA	2.48	0.41
50:DY:37:VAL:HG11	50:DY:72:VAL:CG2	2.50	0.41
50:DY:37:VAL:N	50:DY:67:LEU:O	2.48	0.41
51:DZ:48:PHE:O	51:DZ:49:ARG:C	2.64	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:49:U:C2	1:AA:361:G:N2	2.89	0.41
1:AA:189(F):U:C4	17:AQ:72:ARG:NH2	2.88	0.41
1:AA:329:A:C2	1:AA:332:G:C4	3.09	0.41
1:AA:559:A:H4'	1:AA:560:U:C3'	2.45	0.41
1:AA:783:C:H2'	1:AA:784:C:H5'	2.02	0.41
1:AA:1126:U:O4	1:AA:1127:G:C2	2.74	0.41
1:AA:1128:C:N3	1:AA:1139:G:C6	2.88	0.41
1:AA:1215:G:C5	1:AA:1216:G:N7	2.89	0.41
1:AA:1228:C:C5'	13:AM:108:ARG:HH22	2.33	0.41
1:AA:1277:C:C2'	1:AA:1278:U:H5'	2.50	0.41
1:AA:1504:G:OP1	1:AA:1507:A:H4'	2.20	0.41
2:AB:19:HIS:CG	2:AB:20:GLU:N	2.89	0.41
2:AB:75:LYS:HD3	2:AB:75:LYS:O	2.21	0.41
3:AC:89:GLU:O	3:AC:93:LYS:HB2	2.21	0.41
3:AC:120:VAL:HG12	3:AC:198:VAL:HG21	2.02	0.41
3:AC:134:ILE:HG23	3:AC:151:VAL:CG1	2.51	0.41
4:AD:9:CYS:HA	4:AD:12:CYS:CB	2.38	0.41
7:AG:113:GLU:HB3	7:AG:118:VAL:HG23	2.02	0.41
19:AS:58:VAL:HA	19:AS:59:PRO:HD2	1.96	0.41
22:B0:24:LYS:HG3	22:B0:36:ILE:HD11	2.02	0.41
24:B2:56:GLN:CD	24:B2:56:GLN:N	2.79	0.41
27:B5:2:ALA:N	31:BA:747:U:C2	2.88	0.41
30:B8:31:HIS:CB	31:BA:2420:C:H41	2.33	0.41
30:B8:59:LYS:CB	30:B8:59:LYS:HZ3	2.25	0.41
31:BA:128:C:H6	31:BA:128:C:H5"	1.85	0.41
31:BA:323:G:O2'	31:BA:1205:U:N3	2.50	0.41
31:BA:452:G:C4	31:BA:458:G:C6	3.09	0.41
31:BA:530:G:C6	31:BA:2022:U:H5"	2.56	0.41
31:BA:607:U:N3	31:BA:621:A:C2	2.77	0.41
31:BA:608:A:C4	31:BA:621:A:C6	3.09	0.41
31:BA:688:U:H5'	31:BA:1780:A:C2	2.55	0.41
31:BA:773:U:H2'	31:BA:774:A:H5'	2.02	0.41
31:BA:877:U:C2'	31:BA:878:A:H5"	2.51	0.41
31:BA:993:G:C5'	47:BV:75:PHE:CE2	2.94	0.41
31:BA:1050:A:N1	31:BA:2751:G:C5	2.88	0.41
31:BA:1359:A:H2'	31:BA:1360:A:H5'	2.03	0.41
31:BA:1510:G:C6	31:BA:1511:C:C4	3.08	0.41
31:BA:1581:G:H5'	31:BA:1582:C:OP2	2.21	0.41
31:BA:1642:G:C2'	31:BA:1643:G:H5'	2.50	0.41
31:BA:1721:G:N1	31:BA:1739:U:OP2	2.53	0.41
31:BA:1853:A:N1	31:BA:2087:G:H1'	2.36	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1864:U:H3'	31:BA:1865:G:H5"	2.01	0.41
31:BA:1892:C:O5'	31:BA:1892:C:H6	2.02	0.41
31:BA:1934:C:H6	31:BA:1934:C:H5"	1.86	0.41
31:BA:2437:U:H2'	31:BA:2438:U:C6	2.55	0.41
31:BA:2471:C:C3'	31:BA:2472:G:H5"	2.43	0.41
31:BA:2483:C:N3	42:BQ:124:LYS:NZ	2.68	0.41
31:BA:2726:U:O2	31:BA:2726:U:O4'	2.38	0.41
31:BA:2791:C:H4'	31:BA:2792:G:O5'	2.18	0.41
32:BB:91:C:OP1	42:BQ:16:ARG:HG3	2.21	0.41
34:BE:47:VAL:O	34:BE:80:GLU:HA	2.20	0.41
36:BG:23:PHE:HZ	36:BG:171:ALA:CB	2.32	0.41
37:BH:20:ALA:O	37:BH:21:PRO:C	2.63	0.41
37:BH:170:ARG:HD2	37:BH:170:ARG:H	1.85	0.41
38:BI:5:LEU:C	38:BI:6:LEU:HD23	2.45	0.41
38:BI:93:THR:HG22	38:BI:119:PRO:HB3	2.01	0.41
40:BO:111:PHE:O	40:BO:112:MET:C	2.63	0.41
41:BP:17:LYS:CG	41:BP:19:VAL:HG23	2.42	0.41
43:BR:10:LEU:HB3	43:BR:17:ARG:CD	2.47	0.41
43:BR:49:ASP:OD1	43:BR:95:THR:HB	2.21	0.41
44:BS:14:VAL:O	44:BS:15:ARG:C	2.63	0.41
45:BT:22:PHE:HE2	45:BT:85:LYS:HE3	1.84	0.41
46:BU:109:LEU:HD23	46:BU:109:LEU:HA	1.79	0.41
47:BV:56:SER:O	47:BV:57:VAL:HB	2.21	0.41
50:BY:2:ARG:O	50:BY:4:LYS:N	2.53	0.41
50:BY:81:LYS:HG2	50:BY:96:ILE:HG22	2.02	0.41
1:CA:17:U:O2'	1:CA:1079:G:N3	2.52	0.41
1:CA:162:A:O5'	1:CA:162:A:H8	2.04	0.41
1:CA:319:G:N2	1:CA:320:C:H1'	2.35	0.41
1:CA:509:A:C2	1:CA:510:A:N1	2.89	0.41
1:CA:598:U:H2'	1:CA:599:C:C6	2.55	0.41
1:CA:819:A:N7	1:CA:1529:G:C2	2.88	0.41
1:CA:1065:U:C2'	1:CA:1066:C:OP2	2.69	0.41
1:CA:1217:C:H2'	1:CA:1218:C:O4'	2.20	0.41
1:CA:1228:C:C5'	13:CM:108:ARG:HH22	2.34	0.41
2:CB:105:PHE:O	2:CB:106:LYS:C	2.63	0.41
3:CC:52:LEU:HD23	3:CC:52:LEU:N	2.33	0.41
3:CC:180:ALA:O	3:CC:181:ASN:C	2.64	0.41
4:CD:96:LEU:HD22	4:CD:96:LEU:N	2.36	0.41
5:CE:15:ARG:CZ	5:CE:26:PHE:CE2	3.04	0.41
5:CE:72:GLN:O	5:CE:75:THR:HG22	2.21	0.41
6:CF:15:ASP:OD1	6:CF:18:GLN:N	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:79:LEU:HB2	6:CF:88:VAL:HG21	2.01	0.41
7:CG:26:PHE:CG	7:CG:62:PHE:HE1	2.39	0.41
7:CG:31:MET:SD	7:CG:34:GLY:HA2	2.61	0.41
9:CI:3:GLN:C	9:CI:4:TYR:CD1	2.99	0.41
9:CI:114:TYR:CD2	9:CI:114:TYR:O	2.73	0.41
15:CO:3:ILE:H	15:CO:3:ILE:CD1	2.31	0.41
16:CP:7:ALA:O	16:CP:9:PHE:CD2	2.73	0.41
16:CP:14:ASN:OD1	16:CP:16:HIS:HE1	2.00	0.41
16:CP:20:VAL:HG23	16:CP:34:GLU:C	2.45	0.41
17:CQ:23:VAL:O	17:CQ:39:SER:HB2	2.19	0.41
17:CQ:45:HIS:HB3	17:CQ:72:ARG:HG2	2.03	0.41
25:D3:46:ASN:HD21	31:DA:851:U:H5'	1.85	0.41
27:D5:55:ARG:C	27:D5:56:LYS:HG3	2.45	0.41
31:DA:804:A:H5"	31:DA:805:G:OP1	2.21	0.41
31:DA:1142(A):A:C8	31:DA:1142(A):A:H5'	2.55	0.41
31:DA:1207:C:H2'	31:DA:1208:C:H6	1.84	0.41
31:DA:1416:G:O2'	31:DA:1417:C:OP2	2.36	0.41
31:DA:1533:G:HO2'	31:DA:1543:C:P	2.36	0.41
31:DA:1629:U:H2'	31:DA:1630:G:C8	2.55	0.41
31:DA:1774:C:H6	31:DA:1774:C:O5'	2.02	0.41
31:DA:1833:U:C4	31:DA:1834:U:C5	3.09	0.41
31:DA:2512:C:H4'	34:DE:122:PHE:CE2	2.55	0.41
31:DA:2657:A:C2	31:DA:2658:C:C5	3.09	0.41
31:DA:2693:A:H2'	31:DA:2694:G:C8	2.53	0.41
32:DB:42:C:O2	36:DG:92:VAL:HA	2.20	0.41
33:DD:110:GLY:O	33:DD:111:LEU:C	2.64	0.41
33:DD:145:VAL:HG12	33:DD:146:GLU:O	2.21	0.41
33:DD:220:HIS:CD2	33:DD:220:HIS:C	2.99	0.41
34:DE:102:VAL:HG12	34:DE:200:GLU:HA	2.02	0.41
35:DF:116:ASP:O	35:DF:117:ARG:C	2.64	0.41
36:DG:47:LYS:HD3	36:DG:81:LYS:HD3	2.02	0.41
37:DH:117:PRO:HA	37:DH:123:PHE:CE1	2.54	0.41
38:DI:44:LEU:HD23	38:DI:44:LEU:HA	1.56	0.41
39:DN:78:TYR:CD1	39:DN:79:PRO:CB	3.03	0.41
40:DO:86:ILE:HG22	40:DO:94:ARG:HD3	2.03	0.41
41:DP:19:VAL:C	41:DP:20:GLY:O	2.63	0.41
41:DP:112:LEU:HD23	41:DP:113:LYS:N	2.36	0.41
41:DP:120:ALA:HB3	41:DP:138:LEU:HB3	1.99	0.41
42:DQ:23:GLY:C	42:DQ:100:GLY:C	2.88	0.41
42:DQ:29:PHE:CD1	42:DQ:29:PHE:N	2.89	0.41
46:DU:106:PHE:O	46:DU:109:LEU:HB2	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DV:94:LEU:HD23	47:DV:94:LEU:C	2.46	0.41
50:DY:2:ARG:N	50:DY:5:MET:HE3	2.36	0.41
50:DY:14:LEU:HD12	50:DY:15:VAL:H	1.85	0.41
50:DY:54:LYS:HG2	50:DY:55:TYR:CD2	2.56	0.41
50:DY:89:PHE:C	50:DY:90:LEU:HD23	2.45	0.41
1:AA:102:G:C6	1:AA:103:C:N4	2.89	0.41
1:AA:502:G:C2	1:AA:503:C:C2	3.08	0.41
1:AA:577:G:C1'	1:AA:816:A:C4	3.04	0.41
1:AA:892:A:H2'	1:AA:893:C:H6	1.83	0.41
1:AA:987:G:N2	1:AA:1219:U:N3	2.68	0.41
1:AA:1068:G:N7	1:AA:1094:G:C8	2.89	0.41
1:AA:1077:G:N2	1:AA:1081:G:C5	2.89	0.41
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.55	0.41
1:AA:1312:G:H1	1:AA:1325:C:H42	1.68	0.41
2:AB:114:ARG:O	2:AB:114:ARG:HD3	2.20	0.41
3:AC:126:ARG:C	3:AC:127:ARG:HD2	2.45	0.41
3:AC:130:VAL:O	3:AC:131:ARG:C	2.63	0.41
3:AC:142:MET:HE1	3:AC:147:LYS:C	2.45	0.41
4:AD:11:LEU:C	4:AD:13:ARG:N	2.75	0.41
4:AD:12:CYS:SG	4:AD:19:LEU:O	2.79	0.41
4:AD:108:LEU:HB3	4:AD:110:PHE:CE1	2.56	0.41
4:AD:206:PHE:CD2	4:AD:207:TYR:CD2	3.09	0.41
9:AI:28:VAL:HG13	9:AI:65:VAL:HG12	2.03	0.41
13:AM:19:LEU:O	13:AM:22:ILE:HG13	2.20	0.41
14:AN:3:ARG:HB3	14:AN:3:ARG:NH1	2.35	0.41
17:AQ:57:VAL:HG12	17:AQ:75:ARG:O	2.21	0.41
17:AQ:99:SER:C	17:AQ:100:LYS:HD3	2.45	0.41
20:AT:82:SER:O	20:AT:86:ARG:HD2	2.21	0.41
24:B2:15:LYS:HA	24:B2:18:PRO:CD	2.50	0.41
24:B2:35:LEU:HD23	24:B2:35:LEU:H	1.84	0.41
28:B6:16:CYS:C	28:B6:18:ARG:HH21	2.26	0.41
30:B8:4:MET:CE	31:BA:592:G:N3	2.77	0.41
31:BA:108:U:H2'	31:BA:109:G:C8	2.56	0.41
31:BA:174:C:H3'	31:BA:175:G:H5"	2.01	0.41
31:BA:259:G:N2	31:BA:621:A:C8	2.71	0.41
31:BA:637:A:OP1	41:BP:133:SER:CB	2.68	0.41
31:BA:756:C:N4	31:BA:757:U:C4	2.89	0.41
31:BA:996:A:OP2	46:BU:92:ARG:NH2	2.54	0.41
31:BA:1039:G:H2'	31:BA:1040:C:H5'	2.03	0.41
31:BA:1157:G:N3	31:BA:1158:C:C6	2.89	0.41
31:BA:1260:G:C6	31:BA:1261:C:C4	3.08	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1475:G:H5”	31:BA:1475:G:H8	1.85	0.41
31:BA:1686:C:C2’	31:BA:1687:G:H5’	2.50	0.41
31:BA:1826:G:C5	31:BA:1827:C:C5	3.09	0.41
31:BA:2032:G:H21	34:BE:146:THR:HG23	1.86	0.41
31:BA:2274:A:C5	31:BA:2276:G:C8	3.08	0.41
31:BA:2359:C:N4	31:BA:2360:A:C6	2.88	0.41
31:BA:2517:C:C5	31:BA:2542:A:C2	3.09	0.41
31:BA:2681:C:O2	31:BA:2681:C:C2’	2.66	0.41
32:BB:45:A:H1’	36:BG:95:ARG:NH2	2.36	0.41
33:BD:25:THR:O	33:BD:27:THR:CB	2.69	0.41
34:BE:52:LEU:O	34:BE:75:VAL:N	2.51	0.41
34:BE:82:ARG:O	34:BE:84:PHE:N	2.54	0.41
35:BF:79:GLY:O	35:BF:80:ALA:C	2.62	0.41
36:BG:15:VAL:HG13	36:BG:175:LEU:CD1	2.50	0.41
36:BG:109:VAL:O	36:BG:110:ALA:C	2.64	0.41
37:BH:116:GLU:HG2	37:BH:117:PRO:N	2.34	0.41
37:BH:117:PRO:CA	37:BH:123:PHE:HE1	2.33	0.41
39:BN:17:ASP:O	39:BN:19:GLU:N	2.54	0.41
39:BN:57:ALA:O	39:BN:59:LYS:HB2	2.20	0.41
39:BN:75:TYR:CE2	39:BN:83:LYS:NZ	2.85	0.41
40:BO:116:SER:OG	40:BO:117:LEU:N	2.52	0.41
42:BQ:23:GLY:C	42:BQ:100:GLY:C	2.88	0.41
42:BQ:69:PHE:CD1	42:BQ:70:PRO:HD2	2.55	0.41
43:BR:50:HIS:O	43:BR:51:LEU:C	2.64	0.41
44:BS:91:PRO:O	44:BS:92:TYR:C	2.64	0.41
44:BS:99:LYS:O	44:BS:101:LEU:N	2.53	0.41
45:BT:28:VAL:CG1	45:BT:46:GLU:HB2	2.51	0.41
45:BT:67:SER:O	45:BT:68:TYR:C	2.64	0.41
49:BX:36:LYS:C	49:BX:38:GLU:H	2.28	0.41
51:BZ:151:HIS:HB2	51:BZ:152:ALA:H	1.52	0.41
1:CA:47:C:O2	1:CA:49:U:C5	2.74	0.41
1:CA:63:C:H5’	1:CA:64:G:OP2	2.21	0.41
1:CA:146:G:N2	1:CA:147:G:H1’	2.36	0.41
1:CA:407:G:O2’	4:CD:116:GLN:CB	2.68	0.41
1:CA:436:C:O2’	1:CA:437:U:P	2.79	0.41
1:CA:438:G:H4’	4:CD:123:HIS:HD1	1.85	0.41
1:CA:1191:A:OP1	3:CC:3:ASN:ND2	2.53	0.41
1:CA:1364:U:O2’	1:CA:1365:G:H5’	2.20	0.41
4:CD:54:TYR:O	4:CD:55:ALA:C	2.63	0.41
4:CD:101:LEU:C	4:CD:103:ASN:H	2.29	0.41
5:CE:48:ALA:C	5:CE:50:GLU:H	2.29	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:57:LYS:O	5:CE:61:TYR:CD2	2.65	0.41
5:CE:101:ILE:HD13	5:CE:118:ILE:O	2.21	0.41
6:CF:11:ASN:HA	6:CF:12:PRO:HD2	1.93	0.41
9:CI:40:LEU:C	9:CI:42:ARG:H	2.28	0.41
10:CJ:58:ASP:O	10:CJ:60:ARG:N	2.53	0.41
11:CK:111:ASP:CA	18:CR:84:LYS:HE2	2.49	0.41
16:CP:8:ARG:C	16:CP:9:PHE:CD2	2.98	0.41
19:CS:29:ARG:O	19:CS:31:ILE:HG22	2.21	0.41
22:D0:46:LYS:O	22:D0:78:TYR:HA	2.21	0.41
28:D6:12:GLU:OE1	28:D6:23:THR:HG22	2.21	0.41
31:DA:103:A:H2'	31:DA:104:U:H5'	2.03	0.41
31:DA:204:A:O3'	31:DA:205:G:H4'	2.20	0.41
31:DA:372:G:O2'	31:DA:373:U:OP2	2.37	0.41
31:DA:480:A:H3'	31:DA:481:G:H5"	2.03	0.41
31:DA:624:C:H2'	31:DA:625:G:H5'	2.03	0.41
31:DA:942:G:C2'	31:DA:943:U:H5'	2.51	0.41
31:DA:1177:A:H5'	31:DA:1178:C:O4'	2.20	0.41
31:DA:1223:G:N1	31:DA:1227:G:C6	2.89	0.41
31:DA:1241:A:O4'	31:DA:1241:A:N3	2.54	0.41
31:DA:1434:A:H2'	31:DA:1435:G:C8	2.56	0.41
31:DA:1644:C:C2'	31:DA:1645:G:H5'	2.50	0.41
31:DA:2420:C:O5'	31:DA:2420:C:H6	2.03	0.41
31:DA:2832:U:C2	31:DA:2834:G:C2	3.09	0.41
32:DB:1:U:C6	32:DB:2:C:C5	3.09	0.41
37:DH:65:HIS:CE1	37:DH:69:ARG:HD3	2.56	0.41
39:DN:15:LEU:O	39:DN:136:GLU:HA	2.21	0.41
39:DN:45:ASN:N	39:DN:45:ASN:ND2	2.60	0.41
39:DN:67:LEU:O	39:DN:68:GLU:C	2.63	0.41
39:DN:119:ARG:HH11	39:DN:119:ARG:HG3	1.85	0.41
40:DO:49:ARG:HA	40:DO:49:ARG:HD3	1.99	0.41
40:DO:65:THR:HA	40:DO:82:ASN:HD22	1.86	0.41
40:DO:116:SER:OG	40:DO:117:LEU:N	2.52	0.41
41:DP:96:THR:HB	41:DP:97:PRO:HD2	2.03	0.41
42:DQ:111:GLU:O	42:DQ:112:GLU:C	2.63	0.41
45:DT:16:ARG:HD3	45:DT:16:ARG:HA	1.64	0.41
47:DV:73:SER:O	47:DV:74:LYS:CB	2.69	0.41
48:DW:46:PHE:O	48:DW:47:VAL:C	2.63	0.41
48:DW:69:LEU:HD12	48:DW:69:LEU:O	2.20	0.41
49:DX:83:VAL:O	49:DX:83:VAL:HG23	2.20	0.41
50:DY:7:VAL:HB	50:DY:8:LYS:CE	2.50	0.41
51:DZ:166:SER:CB	51:DZ:167:PRO:HA	2.50	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:7:G:C6	1:AA:298:A:C2	3.09	0.41
1:AA:9:G:H2'	1:AA:10:A:C8	2.56	0.41
1:AA:78:G:N2	1:AA:91:C:H42	2.16	0.41
1:AA:319:G:N2	1:AA:320:C:H1'	2.36	0.41
1:AA:458:C:C2	1:AA:460:G:C8	3.09	0.41
1:AA:501:C:H1'	1:AA:549:C:H1'	2.02	0.41
1:AA:640:A:C2'	1:AA:641:U:H5'	2.50	0.41
1:AA:977:A:H1'	1:AA:982:U:O4	2.21	0.41
1:AA:1217:C:H2'	1:AA:1218:C:O4'	2.21	0.41
2:AB:53:ARG:O	2:AB:56:ARG:HB2	2.21	0.41
3:AC:153:VAL:HB	3:AC:166:GLU:HB3	2.02	0.41
4:AD:163:GLU:O	4:AD:165:MET:N	2.53	0.41
5:AE:92:LYS:O	5:AE:119:LEU:N	2.51	0.41
5:AE:146:ALA:O	5:AE:148:VAL:N	2.54	0.41
6:AF:89:MET:SD	18:AR:76:LEU:HD21	2.61	0.41
7:AG:93:PRO:C	7:AG:95:ARG:H	2.28	0.41
10:AJ:44:VAL:HG12	10:AJ:45:ARG:N	2.35	0.41
11:AK:61:ALA:HB1	11:AK:90:GLY:O	2.21	0.41
13:AM:44:ARG:HB2	13:AM:46:LYS:CG	2.51	0.41
14:AN:21:TYR:OH	14:AN:23:ARG:NH2	2.54	0.41
15:AO:58:MET:HE3	15:AO:58:MET:HB2	1.85	0.41
16:AP:7:ALA:O	16:AP:9:PHE:CD2	2.74	0.41
17:AQ:52:LYS:HE3	17:AQ:52:LYS:HB3	1.85	0.41
20:AT:36:LEU:HD12	20:AT:55:ILE:HG23	2.03	0.41
20:AT:75:ASN:H	20:AT:75:ASN:ND2	2.19	0.41
22:B0:73:GLY:O	22:B0:75:LEU:N	2.54	0.41
23:B1:85:LEU:HD22	23:B1:85:LEU:HA	1.69	0.41
24:B2:32:LEU:HD13	24:B2:32:LEU:HA	1.87	0.41
25:B3:49:LYS:HE2	31:BA:850:C:O3'	2.21	0.41
27:B5:31:VAL:HG22	27:B5:40:LYS:O	2.20	0.41
29:B7:5:TRP:CZ3	31:BA:464:U:C4'	3.04	0.41
30:B8:59:LYS:CD	41:BP:50:ARG:HB3	2.51	0.41
31:BA:117:G:C6	31:BA:119:A:C6	3.09	0.41
31:BA:142:A:O2'	31:BA:1407:C:H2'	2.19	0.41
31:BA:306:U:H2'	31:BA:307:G:O4'	2.20	0.41
31:BA:513:A:C2	31:BA:514:A:C4	3.08	0.41
31:BA:840:C:H6	31:BA:840:C:O5'	2.04	0.41
31:BA:1022:G:C5	31:BA:1140:C:N4	2.89	0.41
31:BA:1155:A:O2'	31:BA:1156:A:H2'	2.19	0.41
31:BA:1207:C:H2'	31:BA:1208:C:C6	2.56	0.41
31:BA:1323:U:H2'	31:BA:1324:G:H5'	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1500:G:C6	31:BA:1501:C:N4	2.88	0.41
31:BA:1520:G:H5"	31:BA:1523:U:OP2	2.21	0.41
31:BA:2187:G:N7	31:BA:2188:C:C2	2.89	0.41
31:BA:2200:C:H5'	31:BA:2201:C:OP2	2.21	0.41
33:BD:62:TYR:CE1	33:BD:64:ILE:HA	2.56	0.41
35:BF:121:GLY:C	35:BF:122:LYS:HD3	2.46	0.41
36:BG:60:LEU:HA	36:BG:63:ILE:HG12	2.03	0.41
38:BI:88:ILE:HG13	38:BI:122:GLU:C	2.46	0.41
41:BP:66:GLY:O	41:BP:67:MET:C	2.64	0.41
41:BP:85:LEU:H	41:BP:85:LEU:CD2	2.31	0.41
43:BR:81:ASP:O	43:BR:85:PRO:HG2	2.21	0.41
44:BS:96:GLY:O	44:BS:97:ARG:C	2.64	0.41
1:CA:114:U:H2'	1:CA:115:G:H8	1.85	0.41
1:CA:370:C:N3	1:CA:371:G:C5	2.89	0.41
1:CA:562:C:H4'	1:CA:563:A:O5'	2.20	0.41
1:CA:674:G:P	6:CF:87:ARG:HH22	2.44	0.41
1:CA:676:A:C2	1:CA:677:U:C4	3.09	0.41
1:CA:827:U:C4	1:CA:870:U:N3	2.89	0.41
4:CD:56:VAL:HG12	4:CD:202:LEU:CD1	2.51	0.41
4:CD:57:ARG:NH2	5:CE:107:ARG:HD3	2.35	0.41
4:CD:74:GLN:HA	4:CD:77:ASN:HD22	1.86	0.41
4:CD:105:VAL:CG2	4:CD:126:ILE:HG21	2.50	0.41
5:CE:51:VAL:CB	5:CE:52:PRO:HD3	2.45	0.41
5:CE:107:ARG:O	5:CE:108:ALA:C	2.63	0.41
10:CJ:50:ILE:HA	10:CJ:60:ARG:CB	2.51	0.41
11:CK:111:ASP:O	11:CK:111:ASP:CG	2.63	0.41
15:CO:5:LYS:O	15:CO:9:GLN:HG2	2.21	0.41
15:CO:82:ILE:CG1	15:CO:88:ARG:HG3	2.49	0.41
16:CP:45:THR:HG23	16:CP:46:PRO:HD2	2.03	0.41
23:D1:86:SER:HA	23:D1:89:GLU:OE1	2.21	0.41
24:D2:34:GLU:O	24:D2:35:LEU:C	2.64	0.41
24:D2:37:PHE:CZ	24:D2:43:GLN:HB2	2.49	0.41
31:DA:34:C:H3'	31:DA:34:C:C6	2.50	0.41
31:DA:108:U:C2	31:DA:109:G:C8	3.09	0.41
31:DA:271(E):U:H3	31:DA:271(S):G:H1	1.68	0.41
31:DA:386:G:H3'	31:DA:388:G:N2	2.36	0.41
31:DA:491:G:H2'	31:DA:492:A:C8	2.56	0.41
31:DA:700:G:H2'	31:DA:701:G:O4'	2.21	0.41
31:DA:937:U:H2'	31:DA:938:G:O4'	2.20	0.41
31:DA:1043:C:O2'	31:DA:1044:G:C8	2.56	0.41
31:DA:1261:C:C2'	31:DA:1262:A:O5'	2.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1434:A:N6	31:DA:1558:A:N6	2.59	0.41
31:DA:1528(A):A:H2'	31:DA:1529:G:O4'	2.21	0.41
31:DA:1803:A:O3'	33:DD:259:THR:HG23	2.21	0.41
31:DA:1880:C:H5'	31:DA:1880:C:C6	2.50	0.41
31:DA:1881:C:O2	31:DA:1881:C:H2'	2.20	0.41
31:DA:2360:A:O2'	31:DA:2361:A:O4'	2.29	0.41
31:DA:2801(A):A:C3'	31:DA:2802:G:H5'	2.49	0.41
33:DD:31:LYS:HA	33:DD:31:LYS:NZ	2.35	0.41
33:DD:35:LYS:CA	33:DD:64:ILE:CG2	2.98	0.41
33:DD:109:ASP:HB2	33:DD:197:GLY:HA2	2.03	0.41
34:DE:37:ARG:HD2	34:DE:80:GLU:OE2	2.21	0.41
35:DF:65:TRP:CZ3	35:DF:73:ALA:O	2.74	0.41
36:DG:60:LEU:O	36:DG:60:LEU:HD13	2.21	0.41
42:DQ:81:VAL:O	42:DQ:82:ARG:NH1	2.54	0.41
44:DS:26:LEU:HD12	44:DS:39:ILE:HD11	2.01	0.41
44:DS:106:ARG:HE	44:DS:106:ARG:HB3	1.29	0.41
45:DT:98:LYS:HD3	45:DT:98:LYS:N	2.36	0.41
48:DW:12:ILE:CG2	48:DW:17:VAL:HG21	2.51	0.41
1:AA:12:U:H2'	1:AA:13:U:H5"	2.03	0.41
1:AA:51:A:H4'	1:AA:52:G:C5'	2.50	0.41
1:AA:63:C:H5'	1:AA:64:G:OP2	2.21	0.41
1:AA:105:G:C6	1:AA:106:C:C4	3.09	0.41
1:AA:124:G:H1	1:AA:237:C:H42	1.68	0.41
1:AA:189:G:C6	1:AA:189(A):C:N4	2.88	0.41
1:AA:191:G:N2	20:AT:103:GLY:O	2.54	0.41
1:AA:286:G:C5	1:AA:287:U:C4	3.08	0.41
1:AA:319:G:C2	1:AA:320:C:C2	3.08	0.41
1:AA:327:A:C5	1:AA:329:A:C5	3.09	0.41
1:AA:375:U:C4	1:AA:376:G:N7	2.89	0.41
1:AA:381:C:H2'	1:AA:382:A:O4'	2.20	0.41
1:AA:405:U:H3'	1:AA:406:G:H5'	2.02	0.41
1:AA:450:G:OP1	1:AA:452:A:P	2.79	0.41
1:AA:552:U:H4'	12:AL:86:ARG:CG	2.49	0.41
1:AA:682:G:N1	1:AA:683:G:C5	2.89	0.41
1:AA:750:G:N3	1:AA:751:U:C6	2.89	0.41
1:AA:779:C:O2'	1:AA:780:A:H5'	2.21	0.41
1:AA:779:C:O2'	11:AK:120:ARG:HD3	2.21	0.41
1:AA:878:G:C5'	8:AH:89:PRO:HG2	2.46	0.41
1:AA:922:G:H4'	5:AE:20:GLN:HA	2.03	0.41
1:AA:1065:U:C2'	1:AA:1066:C:OP2	2.68	0.41
1:AA:1092:A:C2	1:AA:1183:A:C2	3.09	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.84	0.41
1:AA:1220:G:O3'	19:AS:36:ARG:HD3	2.20	0.41
1:AA:1271:G:OP1	1:AA:1314:C:H4'	2.20	0.41
1:AA:1464:G:O2'	1:AA:1465:C:H5'	2.21	0.41
2:AB:55:PHE:CE1	2:AB:218:ALA:HA	2.44	0.41
2:AB:95:GLN:HG3	2:AB:147:LYS:O	2.20	0.41
4:AD:54:TYR:O	4:AD:55:ALA:C	2.64	0.41
4:AD:55:ALA:O	4:AD:56:VAL:C	2.62	0.41
4:AD:90:GLY:O	4:AD:94:LEU:HD12	2.21	0.41
4:AD:101:LEU:C	4:AD:103:ASN:H	2.29	0.41
4:AD:139:ARG:HE	4:AD:139:ARG:HB3	1.57	0.41
5:AE:144:THR:OG1	5:AE:146:ALA:HB3	2.21	0.41
6:AF:18:GLN:H	6:AF:18:GLN:HG3	1.64	0.41
6:AF:67:MET:HB2	6:AF:67:MET:HE3	1.84	0.41
7:AG:93:PRO:C	7:AG:95:ARG:N	2.79	0.41
7:AG:136:LYS:O	7:AG:140:ASP:HB2	2.21	0.41
8:AH:97:VAL:HA	8:AH:100:ILE:HG13	2.02	0.41
9:AI:17:VAL:HG22	9:AI:63:ILE:CG1	2.51	0.41
9:AI:53:VAL:HG12	9:AI:95:LYS:HG2	2.02	0.41
9:AI:116:LYS:O	9:AI:117:HIS:C	2.63	0.41
10:AJ:27:ALA:CB	10:AJ:34:VAL:HG21	2.50	0.41
10:AJ:34:VAL:HG13	10:AJ:73:ASP:O	2.21	0.41
11:AK:61:ALA:CB	11:AK:90:GLY:O	2.69	0.41
15:AO:82:ILE:CG1	15:AO:88:ARG:HG3	2.48	0.41
16:AP:8:ARG:HG2	16:AP:9:PHE:H	1.83	0.41
16:AP:42:ARG:C	16:AP:43:LYS:HD2	2.45	0.41
16:AP:43:LYS:CG	16:AP:48:TRP:CE3	3.04	0.41
17:AQ:29:HIS:ND1	17:AQ:29:HIS:C	2.78	0.41
19:AS:20:LEU:O	19:AS:23:ASN:HB3	2.21	0.41
23:B1:67:ILE:CD1	23:B1:67:ILE:H	2.23	0.41
24:B2:47:ASN:HA	24:B2:51:ARG:HB3	2.03	0.41
24:B2:47:ASN:O	24:B2:49:LYS:N	2.54	0.41
28:B6:19:ARG:NH1	31:BA:2401:U:OP1	2.54	0.41
28:B6:25:LYS:O	31:BA:2286:A:C2	2.64	0.41
28:B6:40:CYS:SG	28:B6:45:LYS:CD	3.08	0.41
30:B8:30:ARG:NH2	41:BP:62:LEU:HB2	2.36	0.41
30:B8:59:LYS:HD3	41:BP:50:ARG:HB3	2.02	0.41
31:BA:58:G:O2'	31:BA:73:A:N1	2.47	0.41
31:BA:61:G:H1	31:BA:94:C:H42	1.69	0.41
31:BA:143(A):C:O2	31:BA:143(A):C:C2'	2.67	0.41
31:BA:218:A:H2'	31:BA:219:G:O4'	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:260:G:O4'	31:BA:621:A:H1'	2.20	0.41
31:BA:271(M):G:C5	31:BA:271(O):C:C4	3.08	0.41
31:BA:302:C:C2'	31:BA:303:U:O5'	2.69	0.41
31:BA:354:G:O5'	31:BA:354:G:H8	2.03	0.41
31:BA:495:G:H1'	48:BW:57:ASN:ND2	2.36	0.41
31:BA:639:U:C2	31:BA:640:C:C5	3.08	0.41
31:BA:646:A:H2'	31:BA:647:G:O4'	2.21	0.41
31:BA:663:G:C6	31:BA:664:C:C4	3.09	0.41
31:BA:760:G:H2'	31:BA:761:A:O4'	2.20	0.41
31:BA:778:G:C4	31:BA:779:U:C6	3.09	0.41
31:BA:824:A:O2'	31:BA:825:C:H5'	2.21	0.41
31:BA:826:U:OP1	31:BA:2428:G:H3'	2.20	0.41
31:BA:979:G:H3'	31:BA:980:A:H5"	2.03	0.41
31:BA:1010:A:N3	31:BA:1153:C:H1'	2.35	0.41
31:BA:1045:A:C4'	31:BA:1047:G:O4'	2.68	0.41
31:BA:1142:U:H5"	31:BA:1142(A):A:C5'	2.49	0.41
31:BA:1181:C:H2'	31:BA:1182:A:C8	2.56	0.41
31:BA:1410:G:C5	31:BA:1411:C:C5	3.09	0.41
31:BA:1470:G:C6	31:BA:1519:G:N7	2.89	0.41
31:BA:1509(B):A:H2'	31:BA:1510:G:O4'	2.21	0.41
31:BA:1666:G:H2'	31:BA:1667:G:H5'	2.01	0.41
31:BA:1819:A:H4'	31:BA:1820:U:O5'	2.20	0.41
31:BA:1820:U:H4'	31:BA:1821:A:OP2	2.21	0.41
31:BA:1838:C:H6	31:BA:1838:C:H2'	1.73	0.41
31:BA:1885:A:H5'	31:BA:1885:A:C8	2.41	0.41
31:BA:1901:A:N3	31:BA:1901:A:H2'	2.35	0.41
31:BA:2226:C:H2'	31:BA:2227:A:O5'	2.21	0.41
31:BA:2256:G:H2'	31:BA:2257:U:H6	1.86	0.41
31:BA:2303:G:N2	31:BA:2314:C:C6	2.89	0.41
31:BA:2399:G:C4	31:BA:2400:G:C8	3.09	0.41
31:BA:2642:G:H5"	39:BN:78:TYR:CE1	2.56	0.41
31:BA:2703:C:H2'	31:BA:2704:C:C6	2.54	0.41
31:BA:2839:G:C5	31:BA:2840:C:C4	3.09	0.41
31:BA:2855:C:H2'	31:BA:2856:C:H6	1.86	0.41
32:BB:7:G:H4'	44:BS:29:PHE:CD1	2.56	0.41
32:BB:73:A:H5'	32:BB:74:U:OP2	2.21	0.41
32:BB:96:U:H2'	32:BB:97:G:C8	2.56	0.41
33:BD:109:ASP:HB2	33:BD:197:GLY:HA2	2.02	0.41
34:BE:27:LEU:HD12	34:BE:181:LEU:CD1	2.51	0.41
34:BE:49:LEU:HD22	34:BE:49:LEU:N	2.36	0.41
34:BE:52:LEU:O	34:BE:74:PRO:CA	2.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BE:59:VAL:O	34:BE:60:ASN:C	2.63	0.41
34:BE:63:LEU:HA	34:BE:63:LEU:HD23	1.81	0.41
34:BE:116:VAL:HG11	34:BE:138:PRO:HB3	2.02	0.41
34:BE:203:LYS:O	34:BE:203:LYS:CD	2.63	0.41
35:BF:114:VAL:O	35:BF:115:ALA:C	2.63	0.41
36:BG:67:LYS:HA	36:BG:68:PRO:HD2	1.90	0.41
37:BH:65:HIS:CE1	37:BH:69:ARG:HD3	2.55	0.41
37:BH:95:ARG:HA	37:BH:128:PRO:O	2.20	0.41
37:BH:118:PRO:HG3	37:BH:144:VAL:HG21	2.03	0.41
37:BH:158:HIS:CE1	37:BH:168:PRO:C	2.99	0.41
38:BI:67:ARG:O	38:BI:68:LEU:HB2	2.20	0.41
39:BN:3:THR:O	39:BN:4:TYR:CG	2.73	0.41
39:BN:66:LYS:CA	39:BN:69:GLN:HB2	2.48	0.41
39:BN:131:GLN:HG2	39:BN:133:GLN:H	1.86	0.41
40:BO:1:MET:HE3	40:BO:67:LYS:HE2	2.03	0.41
41:BP:112:LEU:HD23	41:BP:113:LYS:H	1.85	0.41
42:BQ:37:LEU:HD11	42:BQ:130:LYS:HB2	2.02	0.41
43:BR:54:LEU:C	43:BR:56:LYS:N	2.78	0.41
43:BR:63:ARG:O	43:BR:64:ARG:C	2.62	0.41
43:BR:74:LYS:HD2	43:BR:74:LYS:HA	1.70	0.41
43:BR:111:LEU:HD23	43:BR:111:LEU:HA	1.68	0.41
44:BS:54:LEU:HA	44:BS:57:LYS:O	2.20	0.41
45:BT:6:LEU:HD23	45:BT:6:LEU:C	2.45	0.41
45:BT:92:GLY:O	45:BT:94:ALA:N	2.48	0.41
45:BT:120:ARG:HA	45:BT:123:GLN:HG2	2.02	0.41
46:BU:66:ASN:ND2	46:BU:70:ARG:HE	2.19	0.41
46:BU:92:ARG:CZ	47:BV:11:GLN:H	2.34	0.41
47:BV:1:MET:SD	47:BV:46:VAL:HB	2.61	0.41
47:BV:47:VAL:CG1	47:BV:48:GLY:N	2.74	0.41
47:BV:53:GLU:C	47:BV:55:ALA:H	2.28	0.41
49:BX:18:TYR:C	49:BX:20:GLY:N	2.79	0.41
49:BX:31:HIS:CD2	49:BX:31:HIS:C	2.99	0.41
49:BX:87:GLN:HB2	49:BX:88:LYS:HD2	2.03	0.41
50:BY:47:LYS:HE3	50:BY:47:LYS:HB3	1.60	0.41
50:BY:61:ILE:HG22	50:BY:61:ILE:O	2.20	0.41
50:BY:81:LYS:HE2	50:BY:97:ARG:HG2	2.03	0.41
51:BZ:48:PHE:C	51:BZ:48:PHE:CD1	2.99	0.41
51:BZ:64:GLY:O	51:BZ:65:GLN:C	2.64	0.41
1:CA:17:U:C1'	1:CA:1080:A:H1'	2.51	0.41
1:CA:109:A:H2'	1:CA:326:G:N2	2.35	0.41
1:CA:151:A:H2'	1:CA:152:A:O4'	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:376:G:OP1	16:CP:5:ARG:HB2	2.21	0.41
1:CA:376:G:N3	1:CA:389:A:C2	2.88	0.41
1:CA:499:A:C4'	1:CA:500:G:OP1	2.59	0.41
1:CA:511:C:O2	1:CA:512:U:C6	2.74	0.41
1:CA:545:C:H5"	4:CD:72:GLU:CG	2.47	0.41
1:CA:579:G:C4	1:CA:580:U:C6	3.08	0.41
1:CA:683:G:C2	1:CA:708:C:N3	2.89	0.41
1:CA:781:A:O2'	1:CA:1522:U:O2	2.38	0.41
1:CA:929:G:C6	1:CA:930:C:N4	2.89	0.41
1:CA:1077:G:N2	1:CA:1081:G:C5	2.88	0.41
1:CA:1117:G:O5'	9:CI:104:ARG:NH1	2.54	0.41
1:CA:1125:U:O3'	1:CA:1126:U:C6	2.73	0.41
1:CA:1126:U:C2'	1:CA:1127:G:O5'	2.69	0.41
1:CA:1158:C:O2	1:CA:1158:C:C2'	2.68	0.41
1:CA:1255:G:N2	1:CA:1259:C:O2	2.54	0.41
1:CA:1280:A:O4'	10:CJ:41:PRO:HG3	2.20	0.41
2:CB:187:LEU:HA	2:CB:201:ILE:O	2.21	0.41
2:CB:193:ASP:O	2:CB:193:ASP:CG	2.63	0.41
4:CD:108:LEU:HB3	4:CD:110:PHE:HE1	1.84	0.41
4:CD:163:GLU:O	4:CD:165:MET:N	2.53	0.41
5:CE:7:GLU:HB3	5:CE:112:LEU:HD13	2.03	0.41
5:CE:111:GLU:HB3	5:CE:112:LEU:HD23	2.03	0.41
6:CF:50:TYR:CE2	6:CF:52:ILE:HG12	2.56	0.41
7:CG:140:ASP:HA	7:CG:143:ARG:NH1	2.35	0.41
8:CH:11:THR:O	8:CH:12:ARG:C	2.62	0.41
8:CH:25:ASP:OD2	8:CH:60:ARG:NE	2.53	0.41
8:CH:39:LEU:HB2	8:CH:45:ILE:HD11	2.03	0.41
9:CI:53:VAL:C	9:CI:54:ASP:HB2	2.46	0.41
12:CL:111:LYS:O	12:CL:112:ASP:HB2	2.21	0.41
13:CM:19:LEU:O	13:CM:22:ILE:HG13	2.20	0.41
15:CO:58:MET:HE3	15:CO:58:MET:HB2	1.85	0.41
16:CP:8:ARG:O	16:CP:9:PHE:CD2	2.74	0.41
16:CP:43:LYS:O	16:CP:45:THR:N	2.54	0.41
17:CQ:18:THR:HG23	17:CQ:69:LYS:HE3	2.03	0.41
19:CS:12:ASP:O	19:CS:16:LEU:HD13	2.19	0.41
22:D0:73:GLY:C	22:D0:75:LEU:H	2.29	0.41
24:D2:25:VAL:O	24:D2:27:GLU:N	2.50	0.41
24:D2:32:LEU:CD1	24:D2:35:LEU:HA	2.51	0.41
24:D2:56:GLN:CD	24:D2:56:GLN:N	2.79	0.41
25:D3:45:GLY:HA3	31:DA:851:U:O2'	2.21	0.41
26:D4:2:LYS:H	36:DG:67:LYS:HZ1	1.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D5:32:PRO:O	27:D5:38:ALA:O	2.39	0.41
28:D6:14:THR:C	28:D6:15:GLU:O	2.63	0.41
28:D6:20:ASN:CG	28:D6:21:TYR:N	2.79	0.41
28:D6:36:LEU:C	28:D6:37:ARG:HD2	2.46	0.41
29:D7:21:ARG:O	29:D7:27:GLY:HA3	2.21	0.41
31:DA:83:G:O3'	31:DA:84:A:H8	2.04	0.41
31:DA:118:A:N3	31:DA:178:G:H1'	2.35	0.41
31:DA:154:G:H8	31:DA:154:G:O5'	2.03	0.41
31:DA:182:A:H2'	31:DA:183:C:O4'	2.20	0.41
31:DA:205:G:O2'	31:DA:206:U:OP2	2.38	0.41
31:DA:271(G):C:C2	31:DA:271(H):G:N7	2.88	0.41
31:DA:311:A:C6	31:DA:328:U:C4	3.09	0.41
31:DA:414:C:H2'	31:DA:415:A:C8	2.56	0.41
31:DA:542:C:H6	31:DA:542:C:C5'	2.34	0.41
31:DA:621:A:C2'	31:DA:622:G:H5'	2.49	0.41
31:DA:756:C:N4	31:DA:757:U:C4	2.88	0.41
31:DA:778:G:C5	31:DA:779:U:C4	3.09	0.41
31:DA:847:U:C4	31:DA:933:A:N6	2.88	0.41
31:DA:1011:G:C5	31:DA:1013:C:C5	3.09	0.41
31:DA:1051:G:O2'	31:DA:1052:C:H5"	2.20	0.41
31:DA:1122:G:N3	31:DA:1122:G:H2'	2.36	0.41
31:DA:1359:A:H2'	31:DA:1360:A:H5'	2.03	0.41
31:DA:1387:C:C2	31:DA:1388:G:C8	3.08	0.41
31:DA:1570:A:H2'	31:DA:1571:A:C8	2.56	0.41
31:DA:1709:U:O2'	31:DA:2859:G:H1'	2.21	0.41
31:DA:1786:A:C4	31:DA:1938:A:C6	3.08	0.41
31:DA:1902:C:H4'	33:DD:244:ARG:HA	2.01	0.41
31:DA:2265:U:C4	31:DA:2266:A:C6	3.09	0.41
31:DA:2428:G:H5"	31:DA:2429:G:O5'	2.20	0.41
31:DA:2476:A:N1	31:DA:2477:C:C6	2.88	0.41
31:DA:2480:C:N4	31:DA:2481:G:C6	2.89	0.41
31:DA:2580:U:H4'	34:DE:130:GLY:HA3	2.02	0.41
31:DA:2681:C:C6	31:DA:2724:C:N4	2.89	0.41
31:DA:2713:A:C3'	31:DA:2714:G:H5'	2.49	0.41
31:DA:2793:G:O2'	31:DA:2794:C:OP2	2.32	0.41
31:DA:2838:G:C6	31:DA:2839:G:C5	3.08	0.41
32:DB:40:U:H3'	32:DB:41:U:H5"	2.03	0.41
33:DD:33:LEU:O	33:DD:35:LYS:O	2.37	0.41
33:DD:89:SER:HB2	33:DD:159:ALA:HB2	2.02	0.41
33:DD:133:LEU:HA	33:DD:136:ILE:HD13	2.02	0.41
33:DD:231:HIS:CD2	33:DD:232:PRO:HD2	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DE:81:ILE:O	34:DE:82:ARG:O	2.38	0.41
35:DF:50:SER:HB2	35:DF:94:PRO:HD3	2.03	0.41
35:DF:117:ARG:HG2	35:DF:192:LEU:HB2	2.02	0.41
35:DF:139:PHE:CD2	35:DF:139:PHE:C	2.99	0.41
36:DG:96:ARG:O	36:DG:97:ASP:C	2.63	0.41
36:DG:118:ARG:HB2	36:DG:181:ARG:CZ	2.51	0.41
37:DH:33:LEU:HD11	37:DH:136:ILE:O	2.21	0.41
38:DI:88:ILE:HG22	38:DI:89:TYR:N	2.36	0.41
38:DI:131:LYS:CG	38:DI:132:PRO:HA	2.49	0.41
39:DN:125:GLY:HA3	39:DN:126:PRO:HA	1.80	0.41
39:DN:131:GLN:HG2	39:DN:134:ARG:N	2.28	0.41
42:DQ:69:PHE:CG	42:DQ:70:PRO:HD2	2.56	0.41
42:DQ:72:LYS:O	42:DQ:94:VAL:N	2.44	0.41
43:DR:24:GLN:HE22	43:DR:36:THR:CG2	2.33	0.41
43:DR:77:ARG:HG3	43:DR:77:ARG:HH11	1.86	0.41
44:DS:18:ILE:HD12	44:DS:18:ILE:HA	1.69	0.41
44:DS:35:ILE:HG21	44:DS:66:ALA:HB2	2.03	0.41
44:DS:54:LEU:HD22	44:DS:57:LYS:O	2.21	0.41
44:DS:58:LEU:HD21	44:DS:68:GLN:HB3	2.03	0.41
44:DS:74:ALA:CB	44:DS:103:GLU:HB2	2.51	0.41
44:DS:99:LYS:O	44:DS:101:LEU:N	2.54	0.41
46:DU:17:ILE:HG23	46:DU:39:LEU:HD12	2.02	0.41
46:DU:60:LEU:HA	46:DU:60:LEU:HD23	1.79	0.41
46:DU:69:CYS:C	46:DU:71:GLN:N	2.72	0.41
46:DU:93:LYS:H	46:DU:93:LYS:CD	2.34	0.41
49:DX:23:GLU:OE1	49:DX:23:GLU:HA	2.20	0.41
49:DX:60:ARG:HB2	49:DX:73:ARG:N	2.36	0.41
50:DY:14:LEU:CG	50:DY:15:VAL:N	2.83	0.41
50:DY:46:LYS:HG3	50:DY:47:LYS:H	1.86	0.41
50:DY:98:VAL:O	50:DY:99:CYS:HB3	2.20	0.41
51:DZ:11:GLU:CD	51:DZ:11:GLU:N	2.71	0.41
51:DZ:135:GLU:O	51:DZ:136:PHE:HB3	2.20	0.41
51:DZ:166:SER:CB	51:DZ:167:PRO:CA	2.98	0.41
1:AA:64:G:OP1	1:AA:64:G:H3'	2.21	0.41
1:AA:411:A:C5	1:AA:429:U:C4	3.08	0.41
1:AA:425:G:O2'	1:AA:426:G:H5'	2.21	0.41
1:AA:834:C:C2	1:AA:853:G:C2	3.08	0.41
1:AA:945:G:C6	1:AA:1337:G:C2	3.09	0.41
1:AA:951:G:C5	1:AA:952:U:C5	3.09	0.41
1:AA:953:G:C6	1:AA:1229:A:C6	3.09	0.41
1:AA:1017:G:H8	1:AA:1017:G:O5'	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1228:C:H5”	13:AM:108:ARG:HH22	1.86	0.41
1:AA:1296:C:C5	1:AA:1297:C:C5	3.09	0.41
1:AA:1409:C:H5’	31:BA:1916:A:N1	2.36	0.41
1:AA:1442:G:C5	1:AA:1442(B):A:N1	2.89	0.41
4:AD:20:TYR:C	4:AD:22:LYS:H	2.28	0.41
6:AF:15:ASP:OD1	6:AF:18:GLN:N	2.52	0.41
6:AF:15:ASP:O	6:AF:19:LEU:HB3	2.21	0.41
9:AI:56:LEU:C	9:AI:56:LEU:HD23	2.46	0.41
12:AL:84:LEU:HB3	12:AL:101:VAL:HB	2.03	0.41
13:AM:23:TYR:HB3	13:AM:67:GLU:HB2	2.03	0.41
18:AR:64:ARG:O	18:AR:65:ILE:C	2.63	0.41
20:AT:89:ARG:HD2	20:AT:104:LEU:HD21	2.03	0.41
23:B1:78:LYS:O	23:B1:79:GLY:C	2.64	0.41
25:B3:14:GLY:HA2	31:BA:969:U:O3’	2.21	0.41
25:B3:59:VAL:O	25:B3:59:VAL:HG12	2.21	0.41
28:B6:16:CYS:HB2	28:B6:18:ARG:HH21	1.85	0.41
29:B7:34:ARG:HD3	29:B7:42:LEU:HA	2.02	0.41
30:B8:8:LYS:O	30:B8:12:LYS:HG3	2.21	0.41
31:BA:51:G:N3	31:BA:119:A:C2	2.89	0.41
31:BA:57:C:H2’	31:BA:58:G:O4’	2.21	0.41
31:BA:103:A:C2’	31:BA:104:U:H5’	2.51	0.41
31:BA:355:G:C2	31:BA:356:G:C8	3.09	0.41
31:BA:394:A:C5	31:BA:395:U:C4	3.09	0.41
31:BA:586:A:C2	31:BA:1254:A:C2	3.09	0.41
31:BA:990:A:OP2	31:BA:991:C:OP2	2.38	0.41
31:BA:1221(A):C:C2	31:BA:1229:G:C2	3.08	0.41
31:BA:1718:G:O2’	31:BA:1719:G:H5’	2.21	0.41
31:BA:1819:A:H5”	33:BD:158:ALA:CB	2.51	0.41
31:BA:1972:A:H2’	31:BA:1973:G:H8	1.86	0.41
31:BA:2088:G:C5	31:BA:2089:U:C4	3.09	0.41
31:BA:2316:C:C2	31:BA:2317:C:C6	3.08	0.41
32:BB:66:A:O4’	32:BB:109:C:N4	2.54	0.41
32:BB:71:C:C2	32:BB:72:G:C8	3.09	0.41
33:BD:36:PRO:HG3	33:BD:61:LEU:HG	2.03	0.41
33:BD:43:ARG:NH1	33:BD:44:ASN:CG	2.77	0.41
33:BD:133:LEU:HA	33:BD:136:ILE:HD13	2.02	0.41
33:BD:159:ALA:N	33:BD:161:THR:CG2	2.65	0.41
34:BE:167:VAL:CG2	34:BE:170:LEU:HD11	2.50	0.41
35:BF:23:ASP:O	35:BF:24:LEU:HD22	2.21	0.41
36:BG:152:LEU:O	36:BG:153:ARG:HB2	2.21	0.41
39:BN:63:THR:HB	39:BN:64:GLY:H	1.58	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:25:LEU:HA	40:BO:25:LEU:HD23	1.88	0.41
40:BO:88:ASN:O	40:BO:91:LEU:N	2.50	0.41
40:BO:104:ARG:O	40:BO:107:ARG:HB3	2.20	0.41
42:BQ:54:MET:O	42:BQ:57:HIS:N	2.54	0.41
42:BQ:83:MET:HB2	42:BQ:83:MET:HE2	1.85	0.41
43:BR:91:GLN:HE21	43:BR:91:GLN:HB2	1.65	0.41
43:BR:101:ALA:O	43:BR:102:GLU:CB	2.66	0.41
45:BT:1:MET:C	45:BT:3:ARG:N	2.79	0.41
45:BT:27:THR:OG1	45:BT:28:VAL:N	2.54	0.41
46:BU:92:ARG:O	46:BU:94:ASN:N	2.53	0.41
47:BV:2:PHE:CB	47:BV:42:GLY:CA	2.97	0.41
49:BX:82:GLN:CG	49:BX:83:VAL:N	2.83	0.41
49:BX:89:ILE:HD12	49:BX:89:ILE:N	2.35	0.41
1:CA:229:U:C2'	1:CA:230:G:H5'	2.51	0.41
1:CA:411:A:C5	1:CA:429:U:C5	3.09	0.41
1:CA:731:G:H5'	1:CA:766:A:H4'	2.02	0.41
1:CA:991:U:O2	1:CA:993:G:C8	2.69	0.41
1:CA:1005:A:H5"	1:CA:1006:C:OP2	2.21	0.41
1:CA:1158:C:N4	1:CA:1160:G:C6	2.89	0.41
1:CA:1245:A:H2'	1:CA:1246:C:C6	2.57	0.41
1:CA:1258:G:H2'	1:CA:1259:C:C6	2.57	0.41
1:CA:1261:A:H5'	1:CA:1284:C:OP1	2.21	0.41
1:CA:1308:U:OP1	13:CM:98:VAL:N	2.54	0.41
2:CB:24:TRP:CZ3	2:CB:26:PRO:HA	2.56	0.41
3:CC:17:ASP:O	3:CC:18:TRP:C	2.64	0.41
4:CD:172:PRO:O	4:CD:187:ARG:NH1	2.52	0.41
5:CE:10:MET:HE2	5:CE:55:VAL:HG11	2.02	0.41
6:CF:91:VAL:CG1	18:CR:72:ARG:NH1	2.81	0.41
8:CH:11:THR:HG22	8:CH:15:ASN:ND2	2.36	0.41
10:CJ:35:SER:O	10:CJ:36:GLY:O	2.38	0.41
11:CK:15:ALA:HA	11:CK:76:GLY:O	2.21	0.41
11:CK:50:TYR:HE1	11:CK:59:TYR:CD2	2.39	0.41
11:CK:126:ARG:O	11:CK:127:LYS:C	2.63	0.41
13:CM:44:ARG:HB2	13:CM:46:LYS:CG	2.50	0.41
13:CM:94:ARG:HB3	13:CM:96:LEU:HD12	2.02	0.41
13:CM:108:ARG:CZ	13:CM:114:ARG:HG2	2.51	0.41
14:CN:3:ARG:HB3	14:CN:3:ARG:NH1	2.35	0.41
16:CP:15:PRO:O	16:CP:16:HIS:ND1	2.54	0.41
21:CU:25:LYS:HG2	21:CU:26:LYS:N	2.36	0.41
22:D0:72:ARG:NH2	22:D0:75:LEU:HD12	2.36	0.41
24:D2:17:SER:C	24:D2:21:LEU:HD12	2.42	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D7:33:ARG:O	29:D7:34:ARG:C	2.62	0.41
31:DA:11:G:H2'	31:DA:12:U:H5'	1.99	0.41
31:DA:274:G:N7	31:DA:363:G:C6	2.88	0.41
31:DA:319:C:H2'	31:DA:320:A:O4'	2.21	0.41
31:DA:323:G:O2'	31:DA:1205:U:N3	2.43	0.41
31:DA:394:A:C6	31:DA:395:U:C4	3.08	0.41
31:DA:510:C:H3'	31:DA:510:C:OP1	2.21	0.41
31:DA:513:A:C2	31:DA:514:A:C4	3.09	0.41
31:DA:666:G:O2'	31:DA:667:U:H5'	2.21	0.41
31:DA:701:G:N2	31:DA:732:C:C2	2.88	0.41
31:DA:745:G:P	34:DE:133:LYS:HE3	2.61	0.41
31:DA:777:A:C2	31:DA:778:G:C4	3.09	0.41
31:DA:952:G:C6	31:DA:953:A:N7	2.89	0.41
31:DA:1007:C:H5'	39:DN:106:MET:O	2.21	0.41
31:DA:1024:G:H8	31:DA:1024:G:O5'	2.04	0.41
31:DA:1034:G:H2'	31:DA:1035:U:O4'	2.21	0.41
31:DA:1210:A:C8	31:DA:1210:A:C4'	3.04	0.41
31:DA:1421:G:C2	31:DA:1422:G:C8	3.09	0.41
31:DA:1665:A:C4'	40:DO:67:LYS:HB2	2.51	0.41
31:DA:1679:U:C3'	31:DA:1680:U:H5'	2.51	0.41
31:DA:1771:C:C1'	31:DA:1786:A:H8	2.31	0.41
31:DA:1786:A:H1'	31:DA:1938:A:H62	1.82	0.41
31:DA:1839:G:C8	31:DA:1927:A:C1'	2.94	0.41
31:DA:1845:G:O2'	31:DA:1846:G:H5'	2.21	0.41
31:DA:2078:C:C4	31:DA:2079:U:C4	3.09	0.41
31:DA:2088:G:C6	31:DA:2089:U:C4	3.09	0.41
31:DA:2476:A:C6	31:DA:2477:C:C6	3.07	0.41
31:DA:2791:C:H4'	31:DA:2792:G:O5'	2.20	0.41
31:DA:2885:C:N3	31:DA:2886:G:H1'	2.36	0.41
32:DB:50:G:H8	32:DB:50:G:O5'	2.04	0.41
33:DD:126:GLN:C	33:DD:193:VAL:HG11	2.43	0.41
34:DE:56:PRO:O	34:DE:57:LYS:C	2.64	0.41
34:DE:82:ARG:HA	34:DE:82:ARG:HD3	1.89	0.41
35:DF:121:GLY:C	35:DF:122:LYS:HD3	2.46	0.41
35:DF:125:LEU:HA	35:DF:194:MET:O	2.21	0.41
37:DH:20:ALA:HB1	37:DH:21:PRO:CD	2.43	0.41
37:DH:121:ILE:CG2	37:DH:133:VAL:HG13	2.50	0.41
39:DN:27:ALA:HB1	39:DN:106:MET:HE2	2.01	0.41
40:DO:1:MET:N	40:DO:67:LYS:HB3	2.36	0.41
40:DO:22:ILE:HD13	40:DO:22:ILE:HA	1.47	0.41
40:DO:25:LEU:HD23	40:DO:25:LEU:HA	1.92	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DP:85:LEU:HD13	41:DP:114:ILE:HD11	2.03	0.41
43:DR:100:LEU:HD22	43:DR:112:ALA:HA	2.03	0.41
45:DT:28:VAL:HG13	45:DT:46:GLU:CA	2.50	0.41
47:DV:62:LEU:CB	47:DV:98:GLU:HA	2.50	0.41
50:DY:81:LYS:HD3	50:DY:97:ARG:O	2.21	0.41
1:AA:66:G:C6	1:AA:67:C:C4	3.09	0.40
1:AA:132:C:O2'	1:AA:133:U:H5'	2.21	0.40
1:AA:298:A:H5"	1:AA:299:G:OP2	2.21	0.40
1:AA:341:C:O2	1:AA:349:A:C2	2.74	0.40
1:AA:425:G:N2	1:AA:426:G:H1'	2.36	0.40
1:AA:577:G:C4	1:AA:578:C:C5	3.09	0.40
1:AA:579:G:C4	1:AA:580:U:C5	3.09	0.40
1:AA:616:G:C2	1:AA:617:G:N7	2.89	0.40
1:AA:658:G:H1'	15:AO:22:THR:HB	2.03	0.40
1:AA:671:G:C4	1:AA:672:U:C6	3.09	0.40
1:AA:922:G:H1'	5:AE:19:MET:HB2	2.03	0.40
1:AA:1067:A:O3'	1:AA:1094:G:OP1	2.40	0.40
1:AA:1117:G:O5'	9:AI:104:ARG:NH1	2.54	0.40
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.56	0.40
4:AD:36:ARG:HB3	4:AD:38:TYR:CZ	2.57	0.40
5:AE:13:ILE:HA	5:AE:29:GLY:O	2.21	0.40
5:AE:20:GLN:O	5:AE:21:ALA:C	2.64	0.40
6:AF:3:ARG:HG3	6:AF:3:ARG:HH11	1.87	0.40
7:AG:45:ASP:HB3	7:AG:117:ALA:CB	2.51	0.40
7:AG:104:LEU:HD22	7:AG:134:ALA:HB1	2.02	0.40
10:AJ:94:VAL:CG1	10:AJ:95:GLU:N	2.84	0.40
11:AK:81:ASP:OD1	11:AK:106:LYS:HG2	2.21	0.40
19:AS:48:THR:HG22	19:AS:61:TYR:HA	2.02	0.40
21:AU:25:LYS:HG2	21:AU:26:LYS:N	2.37	0.40
23:B1:34:THR:HG23	31:BA:388:G:P	2.61	0.40
23:B1:37:ILE:HG13	31:BA:2079:U:O3'	2.21	0.40
25:B3:21:ALA:O	25:B3:22:ALA:C	2.62	0.40
25:B3:21:ALA:O	25:B3:24:LYS:N	2.54	0.40
31:BA:773:U:H5'	33:BD:47:GLY:HA2	2.03	0.40
31:BA:779:U:OP1	33:BD:49:ILE:HG22	2.21	0.40
31:BA:855:G:C5	31:BA:856:C:C4	3.09	0.40
31:BA:947:G:H2'	31:BA:948:G:C8	2.56	0.40
31:BA:985:C:H2'	31:BA:986:C:H6	1.86	0.40
31:BA:1313:U:H3'	31:BA:1314:C:H5'	2.03	0.40
31:BA:1359:A:N7	31:BA:1372:U:O4	2.54	0.40
31:BA:1608:A:H1'	31:BA:1610:A:OP2	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1983:C:H4'	31:BA:2606:C:O3'	2.21	0.40
31:BA:2305:A:H1'	36:BG:135:LEU:O	2.21	0.40
31:BA:2406:U:O4	41:BP:70:GLN:HB3	2.21	0.40
31:BA:2564:A:C5	31:BA:2565:A:C6	3.08	0.40
31:BA:2584:U:H6	31:BA:2585:U:C6	2.36	0.40
31:BA:2679:A:H2'	31:BA:2680:C:O4'	2.21	0.40
31:BA:2828:C:H2'	31:BA:2829:C:H6	1.86	0.40
32:BB:38:C:H2'	32:BB:39:A:H8	1.86	0.40
32:BB:59:A:H2'	32:BB:60:C:H6	1.85	0.40
35:BF:55:GLY:C	35:BF:57:VAL:H	2.29	0.40
35:BF:162:LEU:HD12	35:BF:162:LEU:HA	1.82	0.40
35:BF:178:PRO:HB2	35:BF:201:VAL:CG1	2.40	0.40
36:BG:101:ILE:HG23	36:BG:102:PHE:N	2.36	0.40
37:BH:121:ILE:CG2	37:BH:133:VAL:HG13	2.51	0.40
38:BI:43:ASN:O	38:BI:44:LEU:C	2.62	0.40
39:BN:31:ALA:O	39:BN:34:LEU:N	2.54	0.40
40:BO:61:VAL:O	40:BO:61:VAL:CG1	2.69	0.40
41:BP:16:ARG:HD3	41:BP:18:ARG:HB2	2.03	0.40
41:BP:124:LYS:HG2	41:BP:143:GLY:HA3	2.03	0.40
42:BQ:50:ALA:O	42:BQ:51:ARG:C	2.63	0.40
43:BR:38:VAL:N	43:BR:39:PRO:CD	2.84	0.40
44:BS:89:ARG:NE	44:BS:90:GLY:H	2.17	0.40
45:BT:33:LYS:HA	45:BT:33:LYS:HD3	1.66	0.40
45:BT:33:LYS:O	45:BT:40:THR:O	2.39	0.40
45:BT:129:ARG:CZ	45:BT:131:ALA:CB	2.97	0.40
46:BU:15:LYS:HG3	46:BU:16:LYS:N	2.35	0.40
48:BW:75:TYR:CZ	48:BW:104:THR:HG21	2.55	0.40
49:BX:77:LYS:HD3	49:BX:78:LYS:HG3	2.01	0.40
1:CA:16:A:N1	1:CA:919:A:H2	2.19	0.40
1:CA:106:C:O2'	1:CA:107:G:H5'	2.20	0.40
1:CA:339:C:O2'	1:CA:340:U:H5'	2.21	0.40
1:CA:1049:U:OP1	14:CN:3:ARG:NH1	2.54	0.40
1:CA:1229:A:OP2	13:CM:114:ARG:HD3	2.21	0.40
2:CB:40:HIS:C	2:CB:41:ILE:HD12	2.46	0.40
4:CD:11:LEU:C	4:CD:13:ARG:N	2.73	0.40
4:CD:108:LEU:HD12	4:CD:174:LEU:HD13	2.04	0.40
5:CE:147:ASP:HA	5:CE:150:ARG:HB3	2.03	0.40
6:CF:18:GLN:H	6:CF:18:GLN:HG3	1.66	0.40
8:CH:8:ASP:O	8:CH:11:THR:N	2.53	0.40
9:CI:11:LYS:O	9:CI:12:GLU:HB2	2.21	0.40
9:CI:28:VAL:HG22	9:CI:63:ILE:HB	2.02	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:125:TYR:HD2	9:CI:125:TYR:C	2.28	0.40
10:CJ:6:ILE:HG22	10:CJ:98:ILE:CG1	2.50	0.40
10:CJ:80:LYS:HB2	10:CJ:80:LYS:NZ	2.35	0.40
10:CJ:94:VAL:CG1	10:CJ:95:GLU:N	2.84	0.40
12:CL:44:THR:HA	12:CL:45:PRO:HD3	1.93	0.40
12:CL:69:TYR:HD2	12:CL:99:HIS:CD2	2.40	0.40
17:CQ:67:LYS:O	17:CQ:68:ARG:HB3	2.21	0.40
19:CS:58:VAL:HA	19:CS:59:PRO:HD2	1.96	0.40
23:D1:89:GLU:N	23:D1:89:GLU:OE2	2.52	0.40
27:D5:16:ARG:NH1	27:D5:16:ARG:CG	2.72	0.40
28:D6:48:VAL:O	28:D6:49:HIS:O	2.39	0.40
29:D7:34:ARG:HD3	29:D7:42:LEU:HA	2.03	0.40
31:DA:22:C:H2'	31:DA:23:G:O5'	2.21	0.40
31:DA:90:U:O2'	31:DA:92:A:H5"	2.21	0.40
31:DA:117:G:C6	31:DA:119:A:C6	3.09	0.40
31:DA:208:C:H2'	31:DA:209:C:C6	2.56	0.40
31:DA:310:A:C8	31:DA:312:G:C5	3.09	0.40
31:DA:817:C:O2'	31:DA:839:U:H5"	2.21	0.40
31:DA:873:G:N2	31:DA:905:U:C2	2.89	0.40
31:DA:1336:A:H2'	31:DA:1337:G:C8	2.57	0.40
31:DA:1465:G:H2'	31:DA:1466:G:O5'	2.21	0.40
31:DA:1503:U:O2'	31:DA:1504:C:H5'	2.20	0.40
31:DA:1593:G:H2'	31:DA:1594:G:C8	2.56	0.40
31:DA:1922:G:H2'	31:DA:1923:U:O4'	2.21	0.40
31:DA:2048:G:C5	31:DA:2049:G:C8	3.09	0.40
31:DA:2331:G:O2'	31:DA:2336:A:N1	2.48	0.40
31:DA:2417:C:N3	31:DA:2418:A:N7	2.69	0.40
31:DA:2656:U:N3	31:DA:2665:A:C2	2.70	0.40
31:DA:2660:A:H2'	31:DA:2661:G:O5'	2.21	0.40
32:DB:95:C:H2'	32:DB:96:U:C6	2.56	0.40
33:DD:17:THR:HG23	33:DD:205:VAL:HB	2.03	0.40
34:DE:59:VAL:O	34:DE:60:ASN:C	2.64	0.40
34:DE:119:ARG:HG2	34:DE:160:TYR:CD1	2.56	0.40
37:DH:31:GLY:O	37:DH:79:VAL:HG11	2.20	0.40
37:DH:89:ILE:HB	37:DH:90:LYS:H	1.41	0.40
37:DH:94:TYR:CD1	37:DH:107:VAL:HA	2.56	0.40
37:DH:154:PRO:O	37:DH:155:SER:C	2.63	0.40
38:DI:67:ARG:O	38:DI:68:LEU:HB2	2.21	0.40
40:DO:4:PRO:O	40:DO:5:GLN:CB	2.67	0.40
41:DP:85:LEU:H	41:DP:85:LEU:CD2	2.33	0.40
42:DQ:72:LYS:HB3	42:DQ:94:VAL:HG23	2.01	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DR:9:LYS:O	43:DR:10:LEU:CD2	2.69	0.40
44:DS:57:LYS:HG2	44:DS:58:LEU:H	1.86	0.40
47:DV:47:VAL:HG22	47:DV:48:GLY:H	1.85	0.40
47:DV:72:VAL:O	47:DV:73:SER:OG	2.40	0.40
49:DX:77:LYS:HD3	49:DX:78:LYS:HG3	2.02	0.40
51:DZ:156:LYS:O	51:DZ:158:PRO:CD	2.69	0.40
1:AA:67:C:O2	1:AA:171:A:H2	2.04	0.40
1:AA:278:G:O4'	1:AA:282:A:H1'	2.21	0.40
1:AA:409:G:C2'	1:AA:410:G:C5'	2.93	0.40
1:AA:509:A:O2'	1:AA:510:A:O4'	2.39	0.40
1:AA:541:G:C4	1:AA:542:G:C8	3.09	0.40
1:AA:658:G:C2	1:AA:659:U:C6	3.09	0.40
1:AA:781:A:O2'	1:AA:1522:U:O2	2.38	0.40
1:AA:830:G:C4	1:AA:831:U:C6	3.09	0.40
1:AA:993:G:N3	1:AA:993:G:H2'	2.36	0.40
1:AA:1037:C:C4	1:AA:1038:C:C4	3.10	0.40
1:AA:1075:C:OP1	2:AB:179:LYS:HD3	2.20	0.40
2:AB:42:ILE:CG1	2:AB:43:ASP:N	2.84	0.40
2:AB:215:LEU:HD13	2:AB:215:LEU:HA	1.96	0.40
4:AD:116:GLN:NE2	4:AD:157:LEU:HD21	2.35	0.40
4:AD:126:ILE:H	4:AD:126:ILE:HG12	1.75	0.40
6:AF:23:LYS:HB3	6:AF:23:LYS:HE2	1.86	0.40
9:AI:11:LYS:O	9:AI:12:GLU:HB2	2.21	0.40
9:AI:112:LYS:HG2	9:AI:119:ALA:N	2.37	0.40
13:AM:94:ARG:O	13:AM:96:LEU:HG	2.21	0.40
17:AQ:57:VAL:HG12	17:AQ:76:LEU:HA	2.02	0.40
18:AR:66:LEU:HD12	18:AR:66:LEU:C	2.47	0.40
31:BA:24:G:H2'	31:BA:25:U:O4'	2.21	0.40
31:BA:250:G:C6	31:BA:251:A:C6	3.10	0.40
31:BA:271(E):U:C2	31:BA:271(F):C:C5	3.10	0.40
31:BA:310:A:P	50:BY:18:GLY:HA2	2.61	0.40
31:BA:327:G:C2	31:BA:336:C:C2	3.10	0.40
31:BA:700:G:H2'	31:BA:701:G:O4'	2.21	0.40
31:BA:769:G:H2'	31:BA:770:G:H5'	2.02	0.40
31:BA:792:G:H3'	31:BA:793:A:H5'	2.03	0.40
31:BA:996:A:C2	31:BA:997:G:C8	3.09	0.40
31:BA:1019:U:OP1	31:BA:1035:U:O2'	2.31	0.40
31:BA:1027:A:C2	31:BA:2488:A:H5'	2.57	0.40
31:BA:1356:G:C5	31:BA:1357:U:C4	3.08	0.40
31:BA:1445(A):C:C2	31:BA:1446:C:C5	3.09	0.40
31:BA:1831:G:C5	31:BA:1832:C:C5	3.09	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2232:U:O2'	31:BA:2233:U:H5'	2.21	0.40
31:BA:2306:C:OP2	31:BA:2307:G:H8	2.04	0.40
31:BA:2525:G:C2	31:BA:2539:C:C2	3.09	0.40
31:BA:2527:C:O2'	31:BA:2528:U:H5'	2.21	0.40
31:BA:2684:U:H1'	40:BO:70:LYS:HD2	2.03	0.40
31:BA:2702:U:O2'	31:BA:2703:C:C5	2.69	0.40
33:BD:89:SER:OG	33:BD:158:ALA:O	2.27	0.40
33:BD:246:PRO:HG2	33:BD:255:LYS:HG2	2.04	0.40
33:BD:248:SER:O	33:BD:250:TRP:N	2.55	0.40
34:BE:52:LEU:O	34:BE:74:PRO:HA	2.21	0.40
34:BE:132:HIS:CG	34:BE:132:HIS:O	2.73	0.40
35:BF:57:VAL:CG1	35:BF:59:TYR:CD1	3.02	0.40
35:BF:103:LYS:O	35:BF:104:LYS:C	2.65	0.40
35:BF:178:PRO:HB3	35:BF:198:ALA:CB	2.51	0.40
36:BG:60:LEU:HD12	36:BG:68:PRO:HD3	2.02	0.40
36:BG:94:LEU:HD23	36:BG:94:LEU:N	2.35	0.40
37:BH:158:HIS:HE1	37:BH:168:PRO:C	2.28	0.40
41:BP:58:THR:O	41:BP:58:THR:HG22	2.21	0.40
42:BQ:69:PHE:CG	42:BQ:70:PRO:HD2	2.56	0.40
43:BR:59:ASP:OD1	43:BR:61:HIS:CB	2.69	0.40
45:BT:92:GLY:C	45:BT:94:ALA:N	2.80	0.40
46:BU:11:ARG:HH11	46:BU:11:ARG:HD3	1.74	0.40
47:BV:1:MET:HE1	47:BV:44:LYS:H	1.85	0.40
47:BV:53:GLU:C	47:BV:55:ALA:N	2.79	0.40
50:BY:79:CYS:SG	50:BY:80:GLY:N	2.95	0.40
1:CA:314:C:O2'	1:CA:315:A:H5'	2.21	0.40
1:CA:336:C:H2'	1:CA:337:C:C6	2.54	0.40
1:CA:407:G:H4'	4:CD:116:GLN:HA	2.02	0.40
1:CA:410:G:O5'	1:CA:410:G:H8	2.04	0.40
1:CA:417:C:O2'	1:CA:418:C:H5'	2.21	0.40
1:CA:1126:U:O4	1:CA:1127:G:C2	2.74	0.40
1:CA:1240:U:P	7:CG:116:ALA:HB2	2.61	0.40
1:CA:1296:C:C5	1:CA:1297:C:C5	3.09	0.40
1:CA:1317:C:H41	14:CN:19:ARG:HH21	1.69	0.40
2:CB:51:LEU:HD22	2:CB:55:PHE:CE2	2.57	0.40
2:CB:112:VAL:HG22	2:CB:149:LEU:HD13	2.04	0.40
2:CB:163:PHE:CD2	2:CB:185:ILE:HG13	2.49	0.40
3:CC:39:ILE:C	3:CC:41:GLY:H	2.29	0.40
4:CD:61:LYS:HA	4:CD:203:VAL:HG22	2.03	0.40
5:CE:136:MET:O	5:CE:137:GLU:C	2.64	0.40
9:CI:97:LYS:CB	9:CI:98:PRO:HD3	2.51	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:116:LYS:O	9:CI:117:HIS:C	2.64	0.40
11:CK:66:LEU:C	11:CK:68:ALA:N	2.78	0.40
11:CK:101:SER:OG	11:CK:102:GLY:N	2.53	0.40
13:CM:88:ARG:HG3	13:CM:98:VAL:HB	2.04	0.40
15:CO:11:VAL:HG21	15:CO:34:LEU:HD22	2.02	0.40
23:D1:10:LYS:HB2	23:D1:14:VAL:C	2.46	0.40
27:D5:25:LEU:CD1	48:DW:19:LEU:HB3	2.52	0.40
28:D6:36:LEU:HD13	28:D6:50:ARG:NH1	2.35	0.40
31:DA:188:G:C2'	31:DA:189:G:H5'	2.51	0.40
31:DA:307:G:N2	31:DA:310:A:OP2	2.54	0.40
31:DA:530:G:C6	31:DA:2022:U:H5"	2.57	0.40
31:DA:727:A:C2	33:DD:9:TYR:CD2	3.09	0.40
31:DA:860:U:C2'	31:DA:861:A:O5'	2.69	0.40
31:DA:877:U:C2'	31:DA:878:A:H5"	2.51	0.40
31:DA:1450(A):C:C4	31:DA:1451:C:N4	2.88	0.40
31:DA:1589:C:H2'	31:DA:1590:U:C6	2.57	0.40
31:DA:1625:C:N4	31:DA:1626:G:C2	2.88	0.40
31:DA:1812:A:O2'	33:DD:45:ASN:HB2	2.21	0.40
31:DA:1972:A:H2'	31:DA:1973:G:H8	1.85	0.40
31:DA:2395:C:H2'	31:DA:2396:G:O4'	2.21	0.40
31:DA:2483:C:N3	42:DQ:124:LYS:NZ	2.69	0.40
31:DA:2639:A:H2'	31:DA:2640:G:H5'	2.03	0.40
31:DA:2801(A):A:O3'	31:DA:2802:G:C3'	2.63	0.40
32:DB:15:A:H2'	32:DB:16:G:OP1	2.21	0.40
32:DB:91:C:OP1	42:DQ:16:ARG:HG3	2.21	0.40
36:DG:36:LYS:O	36:DG:160:VAL:HG23	2.21	0.40
36:DG:62:LEU:C	36:DG:64:THR:H	2.27	0.40
38:DI:24:GLY:O	38:DI:28:ASN:HB2	2.22	0.40
39:DN:128:HIS:CE1	39:DN:134:ARG:CD	3.02	0.40
40:DO:13:ASN:C	40:DO:15:GLY:N	2.76	0.40
41:DP:5:ASP:CG	41:DP:6:LEU:HD23	2.46	0.40
41:DP:8:PRO:O	41:DP:10:PRO:HD3	2.21	0.40
42:DQ:33:GLY:O	42:DQ:132:VAL:HG23	2.22	0.40
46:DU:92:ARG:C	46:DU:94:ASN:N	2.78	0.40
46:DU:95:LEU:HD13	47:DV:4:ILE:HG23	2.03	0.40
47:DV:54:GLY:O	47:DV:56:SER:OG	2.36	0.40
48:DW:80:PRO:O	48:DW:100:THR:HG21	2.21	0.40
49:DX:3:THR:HA	49:DX:6:ASP:OD2	2.20	0.40
49:DX:7:VAL:HG12	49:DX:30:VAL:HG12	2.02	0.40
50:DY:39:VAL:HG12	50:DY:40:GLU:H	1.82	0.40
50:DY:55:TYR:HA	50:DY:56:PRO:HD2	1.86	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:109:A:H4'	1:AA:110:C:OP2	2.21	0.40
1:AA:126:G:OP1	1:AA:605:U:O2'	2.38	0.40
1:AA:132:C:C2	1:AA:133:U:C6	3.09	0.40
1:AA:179:A:H2'	1:AA:180:U:H6	1.85	0.40
1:AA:542:G:C2	1:AA:543:C:C4	3.10	0.40
1:AA:738:C:C2	1:AA:739:C:C5	3.09	0.40
1:AA:815:A:C2	1:AA:1529:G:C4	3.10	0.40
1:AA:955:U:O2'	1:AA:956:U:H5'	2.22	0.40
1:AA:965:A:C2	1:AA:969:A:N1	2.90	0.40
1:AA:1154:G:N3	1:AA:1155:G:C8	2.89	0.40
1:AA:1394:A:C5	1:AA:1501:C:H4'	2.56	0.40
4:AD:103:ASN:OD1	4:AD:114:ARG:NH2	2.48	0.40
6:AF:15:ASP:O	6:AF:19:LEU:CB	2.69	0.40
6:AF:62:TRP:O	6:AF:62:TRP:CE3	2.74	0.40
7:AG:18:TYR:CD2	7:AG:59:LEU:HD13	2.55	0.40
7:AG:150:ALA:O	11:AK:57:THR:HG21	2.21	0.40
11:AK:21:ILE:CB	11:AK:84:VAL:HG12	2.50	0.40
11:AK:50:TYR:HE1	11:AK:59:TYR:CD2	2.39	0.40
11:AK:83:ILE:HA	11:AK:109:VAL:O	2.21	0.40
11:AK:122:LYS:HB3	11:AK:122:LYS:HE2	1.59	0.40
12:AL:38:THR:CG2	12:AL:39:VAL:H	2.34	0.40
15:AO:25:THR:O	15:AO:26:GLU:C	2.64	0.40
17:AQ:63:ARG:HG2	17:AQ:64:PRO:N	2.35	0.40
20:AT:26:ASN:CB	20:AT:71:THR:OG1	2.68	0.40
20:AT:69:GLY:O	20:AT:73:HIS:NE2	2.54	0.40
23:B1:8:SER:HB3	31:BA:1364:G:OP1	2.21	0.40
23:B1:27:GLU:OE2	23:B1:32:LYS:CB	2.63	0.40
23:B1:63:ALA:O	23:B1:64:ALA:C	2.64	0.40
23:B1:67:ILE:N	23:B1:67:ILE:HD12	2.34	0.40
23:B1:83:GLU:C	23:B1:85:LEU:N	2.80	0.40
27:B5:3:LYS:O	27:B5:4:HIS:C	2.65	0.40
27:B5:4:HIS:CD2	31:BA:2056:G:H1	2.39	0.40
30:B8:29:LYS:O	30:B8:32:LEU:N	2.54	0.40
30:B8:32:LEU:HB3	30:B8:34:TRP:HB3	2.04	0.40
30:B8:32:LEU:CG	30:B8:35:GLN:H	2.29	0.40
31:BA:309:G:O2'	31:BA:329:G:C8	2.73	0.40
31:BA:414:C:O2	31:BA:1864:U:O2'	2.39	0.40
31:BA:528:A:C2	31:BA:2043:C:C4'	3.01	0.40
31:BA:613:G:C2	31:BA:614:U:C6	3.09	0.40
31:BA:707:G:C4	31:BA:708:C:C6	3.09	0.40
31:BA:879:G:C2'	31:BA:880:G:H5'	2.51	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:1016:G:H2'	31:BA:1017:G:O5'	2.20	0.40
31:BA:1431:U:H2'	31:BA:1432:C:C6	2.57	0.40
31:BA:1485:G:N2	31:BA:1505:C:C6	2.89	0.40
31:BA:1623:G:C2	31:BA:1624:G:C8	3.09	0.40
31:BA:1651:G:OP1	43:BR:40:LYS:HG3	2.21	0.40
31:BA:1799:G:H5'	31:BA:1819:A:N6	2.34	0.40
31:BA:1799:G:H3'	31:BA:1799:G:P	2.62	0.40
31:BA:1865:G:H2'	31:BA:1876:A:N7	2.37	0.40
31:BA:2404:C:O3'	41:BP:77:ARG:NH2	2.54	0.40
31:BA:2653:U:C2'	31:BA:2654:A:OP1	2.69	0.40
31:BA:2730:C:H4'	34:BE:168:MET:O	2.21	0.40
32:BB:57:A:C4	36:BG:29:TRP:HB2	2.57	0.40
33:BD:5:LYS:HD2	33:BD:5:LYS:N	2.37	0.40
34:BE:119:ARG:CG	34:BE:160:TYR:HB2	2.51	0.40
35:BF:2:LYS:O	35:BF:25:PRO:CG	2.67	0.40
36:BG:39:ILE:HA	36:BG:157:ILE:HA	2.03	0.40
36:BG:133:LEU:C	36:BG:133:LEU:CD1	2.95	0.40
40:BO:47:ILE:HD12	40:BO:47:ILE:HA	1.62	0.40
40:BO:107:ARG:HH22	45:BT:35:LYS:CD	2.35	0.40
42:BQ:70:PRO:HA	42:BQ:95:ALA:HB2	2.03	0.40
43:BR:36:THR:HB	43:BR:37:THR:H	1.69	0.40
44:BS:15:ARG:C	44:BS:17:ARG:O	2.63	0.40
47:BV:25:LEU:C	47:BV:27:ALA:N	2.76	0.40
49:BX:83:VAL:O	49:BX:83:VAL:HG23	2.22	0.40
50:BY:52:SER:O	50:BY:54:LYS:N	2.55	0.40
1:CA:81:U:C4	1:CA:88:A:N6	2.89	0.40
1:CA:177:C:O2'	1:CA:178:C:H5'	2.22	0.40
1:CA:277:C:P	17:CQ:68:ARG:HH12	2.43	0.40
1:CA:600:C:N3	1:CA:639:G:C2	2.88	0.40
1:CA:605:U:H2'	1:CA:606:G:O4'	2.21	0.40
1:CA:616:G:C2	1:CA:617:G:N7	2.89	0.40
1:CA:1416:G:N2	1:CA:1485:U:H1'	2.37	0.40
1:CA:1452:C:H4'	1:CA:1456:G:O5'	2.20	0.40
1:CA:1498:U:C2'	1:CA:1499:A:OP2	2.70	0.40
2:CB:19:HIS:CG	2:CB:20:GLU:N	2.88	0.40
3:CC:130:VAL:O	3:CC:131:ARG:C	2.64	0.40
4:CD:31:CYS:O	4:CD:32:ALA:HB3	2.21	0.40
4:CD:65:ARG:HA	4:CD:75:PHE:CE1	2.57	0.40
5:CE:72:GLN:C	5:CE:74:GLY:N	2.78	0.40
8:CH:4:ASP:OD2	8:CH:85:ARG:NH1	2.54	0.40
8:CH:86:ILE:HG12	8:CH:135:CYS:HA	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:78:LYS:HB2	9:CI:78:LYS:NZ	2.35	0.40
10:CJ:81:THR:O	10:CJ:85:LEU:HG	2.22	0.40
12:CL:46:LYS:CG	12:CL:47:LYS:H	2.34	0.40
19:CS:79:THR:O	19:CS:80:TYR:HB3	2.20	0.40
20:CT:81:LYS:O	20:CT:84:LEU:N	2.55	0.40
25:D3:4:LEU:O	25:D3:36:VAL:HA	2.22	0.40
27:D5:4:HIS:O	31:DA:2056:G:N2	2.54	0.40
28:D6:19:ARG:NH1	31:DA:2401:U:OP1	2.54	0.40
30:D8:26:LYS:HE2	30:D8:47:LYS:HB3	2.02	0.40
31:DA:26:G:C6	31:DA:27:G:C6	3.09	0.40
31:DA:183:C:H1'	31:DA:433:C:H1'	2.03	0.40
31:DA:208:C:H2'	31:DA:209:C:H6	1.87	0.40
31:DA:356:G:O2'	31:DA:357:A:H5'	2.21	0.40
31:DA:449:A:H2'	31:DA:450:G:C5'	2.51	0.40
31:DA:530:G:O6	31:DA:2023:G:OP1	2.40	0.40
31:DA:557:U:H2'	31:DA:558:G:H8	1.86	0.40
31:DA:571:A:H5'	31:DA:2030:A:N6	2.16	0.40
31:DA:576:U:H2'	31:DA:577:G:C8	2.56	0.40
31:DA:790:C:H6	31:DA:790:C:H2'	1.64	0.40
31:DA:892:G:C8	31:DA:893:C:C4	3.09	0.40
31:DA:1152:C:O2'	31:DA:1153:C:H5'	2.21	0.40
31:DA:1286:A:OP1	43:DR:105:ARG:HD2	2.22	0.40
31:DA:1323:U:C2'	31:DA:1324:G:H5'	2.51	0.40
31:DA:1373:A:C6	31:DA:1374:G:C4	3.08	0.40
31:DA:1719:G:O6	31:DA:1720:U:C4	2.75	0.40
31:DA:1785:A:O2'	31:DA:1786:A:H2'	2.21	0.40
31:DA:2259:G:C2	31:DA:2282:G:C6	3.09	0.40
31:DA:2507:C:C2	31:DA:2508:G:C8	3.10	0.40
31:DA:2517:C:C5	31:DA:2542:A:C2	3.10	0.40
31:DA:2559:C:H2'	31:DA:2560:C:H6	1.86	0.40
31:DA:2712:U:O2'	31:DA:2712(A):A:P	2.79	0.40
31:DA:2722:G:H2'	31:DA:2723:C:C6	2.56	0.40
31:DA:2723:C:H4'	43:DR:2:ARG:O	2.21	0.40
31:DA:2789:C:OP1	31:DA:2789:C:C4'	2.56	0.40
31:DA:2889:C:H2'	31:DA:2889:C:O2	2.21	0.40
32:DB:30:C:H2'	32:DB:31:C:C5'	2.51	0.40
32:DB:81:G:C5'	32:DB:82:G:OP2	2.69	0.40
34:DE:173:VAL:N	34:DE:183:LEU:O	2.53	0.40
34:DE:176:ILE:HB	34:DE:181:LEU:HB2	2.03	0.40
36:DG:148:MET:O	36:DG:148:MET:HG3	2.21	0.40
36:DG:178:PHE:HA	36:DG:179:PRO:HD2	1.86	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DH:91:GLY:C	37:DH:92:ILE:CG1	2.92	0.40
42:DQ:66:ILE:HG22	42:DQ:104:PHE:HD2	1.86	0.40
43:DR:12:ARG:HD3	43:DR:16:HIS:CG	2.56	0.40
44:DS:106:ARG:CZ	44:DS:107:GLU:O	2.69	0.40
45:DT:82:LEU:N	45:DT:82:LEU:CD1	2.81	0.40
45:DT:120:ARG:HA	45:DT:123:GLN:HG2	2.02	0.40
1:AA:189(J):G:C2'	1:AA:189(K):U:H5'	2.51	0.40
1:AA:327:A:C5	1:AA:329:A:N7	2.90	0.40
1:AA:380:G:N2	1:AA:384:G:C6	2.90	0.40
1:AA:452:A:O2'	1:AA:453:A:H8	2.05	0.40
1:AA:1067:A:N3	1:AA:1068:G:H1'	2.36	0.40
1:AA:1084:G:OP1	1:AA:1086:U:C5	2.74	0.40
1:AA:1169:A:C2'	1:AA:1170:A:C8	2.95	0.40
1:AA:1308:U:OP1	13:AM:98:VAL:N	2.54	0.40
1:AA:1319:A:OP1	19:AS:10:PHE:CD1	2.75	0.40
1:AA:1392:G:O2'	1:AA:1393:U:H5'	2.20	0.40
2:AB:97:TRP:O	2:AB:97:TRP:CE3	2.75	0.40
2:AB:204:ASN:HD22	2:AB:205:ASP:N	2.19	0.40
4:AD:61:LYS:HA	4:AD:203:VAL:HG22	2.04	0.40
4:AD:180:GLY:O	4:AD:181:MET:C	2.64	0.40
6:AF:15:ASP:CG	6:AF:18:GLN:HE21	2.30	0.40
7:AG:140:ASP:HA	7:AG:143:ARG:NH1	2.36	0.40
8:AH:86:ILE:HB	8:AH:133:LEU:HD22	2.03	0.40
10:AJ:35:SER:O	10:AJ:36:GLY:O	2.40	0.40
18:AR:25:THR:HG22	18:AR:25:THR:O	2.21	0.40
24:B2:44:LEU:C	24:B2:46:GLN:N	2.73	0.40
24:B2:52:ASP:CG	31:BA:72:U:H1'	2.46	0.40
28:B6:45:LYS:HB3	31:BA:2371:G:H4'	2.04	0.40
31:BA:271(N):U:OP1	31:BA:271(N):U:C5	2.74	0.40
31:BA:444:C:H4'	35:BF:49:ALA:HB2	2.03	0.40
31:BA:869:G:C4	31:BA:870:A:C8	3.08	0.40
31:BA:911:A:C5	42:BQ:9:TYR:CE2	3.09	0.40
31:BA:924:C:H2'	31:BA:925:C:C6	2.56	0.40
31:BA:1027:A:N7	31:BA:1126:A:C2	2.89	0.40
31:BA:1040:C:HO2'	31:BA:1041:C:P	2.38	0.40
31:BA:1331:A:O2'	31:BA:1332:G:H8	2.05	0.40
31:BA:1359:A:H8	31:BA:1372:U:O4	2.02	0.40
31:BA:1449:A:O2'	31:BA:1530:C:H5	2.04	0.40
31:BA:1450(A):C:N4	31:BA:1451:C:N4	2.69	0.40
31:BA:1599:C:O2	31:BA:1599:C:C2'	2.68	0.40
31:BA:1644:C:O2	31:BA:1644:C:H2'	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BA:2199:A:N3	31:BA:2199:A:H2'	2.37	0.40
31:BA:2348:U:C2'	31:BA:2349:G:H5'	2.52	0.40
31:BA:2808:U:C4	31:BA:2809:A:N7	2.89	0.40
31:BA:2821:A:H2'	31:BA:2822:G:C8	2.57	0.40
31:BA:2888:C:C2'	31:BA:2889:C:H5"	2.50	0.40
33:BD:143:HIS:C	33:BD:145:VAL:HG23	2.46	0.40
33:BD:222:ARG:HH11	33:BD:222:ARG:HD2	1.75	0.40
37:BH:43:VAL:HG12	37:BH:53:GLU:H	1.86	0.40
38:BI:47:LEU:O	38:BI:48:GLU:C	2.63	0.40
41:BP:16:ARG:NH1	41:BP:16:ARG:O	2.48	0.40
41:BP:48:PRO:CG	41:BP:49:ARG:N	2.83	0.40
41:BP:88:LEU:C	41:BP:90:ARG:N	2.76	0.40
42:BQ:34:LEU:HB2	42:BQ:118:LEU:HD22	2.03	0.40
44:BS:17:ARG:NE	44:BS:89:ARG:HH21	2.17	0.40
44:BS:42:ASP:O	44:BS:44:LYS:N	2.53	0.40
44:BS:101:LEU:C	44:BS:102:ALA:O	2.64	0.40
45:BT:52:ILE:O	45:BT:98:LYS:HE3	2.20	0.40
45:BT:100:TYR:O	45:BT:103:ARG:HG3	2.21	0.40
48:BW:83:LYS:C	48:BW:84:ARG:HD3	2.46	0.40
49:BX:37:THR:O	49:BX:37:THR:HG22	2.20	0.40
50:BY:8:LYS:CD	50:BY:28:LYS:NZ	2.79	0.40
50:BY:16:ALA:O	50:BY:17:SER:O	2.39	0.40
50:BY:89:PHE:O	50:BY:90:LEU:HB3	2.21	0.40
1:CA:133:U:H1'	1:CA:230:G:N2	2.37	0.40
1:CA:173:U:C2	1:CA:197:A:N1	2.89	0.40
1:CA:355:C:N3	1:CA:356:A:C8	2.89	0.40
1:CA:360:A:C2'	1:CA:361:G:H5'	2.52	0.40
1:CA:749:C:H2'	1:CA:750:G:H8	1.86	0.40
1:CA:764:C:O2	1:CA:764:C:H2'	2.20	0.40
1:CA:774:G:H2'	1:CA:775:G:H5'	2.03	0.40
2:CB:54:THR:O	2:CB:58:ILE:HG12	2.21	0.40
2:CB:112:VAL:C	2:CB:114:ARG:H	2.29	0.40
2:CB:144:ARG:HG3	2:CB:145:LEU:H	1.85	0.40
3:CC:6:HIS:HE2	3:CC:184:TYR:HE2	1.69	0.40
4:CD:150:GLU:CD	4:CD:150:GLU:N	2.80	0.40
4:CD:171:GLY:HA2	4:CD:172:PRO:HD3	1.78	0.40
4:CD:189:PRO:CB	4:CD:194:LEU:HD21	2.44	0.40
5:CE:13:ILE:HA	5:CE:29:GLY:O	2.22	0.40
8:CH:69:ARG:HD3	8:CH:75:ARG:O	2.21	0.40
11:CK:80:VAL:O	11:CK:80:VAL:HG23	2.21	0.40
12:CL:28:LYS:HE2	12:CL:33:ARG:HH12	1.86	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:69:THR:O	18:CR:70:ILE:C	2.63	0.40
20:CT:56:MET:C	20:CT:56:MET:HE2	2.47	0.40
23:D1:26:ARG:CB	23:D1:34:THR:HA	2.48	0.40
25:D3:58:VAL:C	25:D3:59:VAL:HG23	2.47	0.40
30:D8:34:TRP:HH2	30:D8:38:GLY:N	2.20	0.40
30:D8:50:LEU:C	30:D8:52:LYS:N	2.79	0.40
31:DA:271(A):A:N1	31:DA:272(D):G:O2'	2.45	0.40
31:DA:282:A:C8	31:DA:284:U:C4	3.10	0.40
31:DA:626:U:H5"	31:DA:627:A:H5'	2.03	0.40
31:DA:705:A:H1'	33:DD:9:TYR:CE1	2.57	0.40
31:DA:721:C:C2	31:DA:722:A:C8	3.09	0.40
31:DA:777:A:C2	31:DA:778:G:C8	3.09	0.40
31:DA:921:G:C5	31:DA:922:U:C4	3.10	0.40
31:DA:945:A:C6	31:DA:2448:A:C5	3.09	0.40
31:DA:964:C:H2'	31:DA:965:C:H6	1.86	0.40
31:DA:1410:G:H2'	31:DA:1411:C:C6	2.57	0.40
31:DA:1412:A:H2'	31:DA:1413:G:O4'	2.22	0.40
31:DA:1416:G:OP2	31:DA:1416:G:H4'	2.22	0.40
31:DA:1582:C:O2'	31:DA:1586:A:H8	1.97	0.40
31:DA:1668:A:C5	31:DA:1674:G:C5	3.09	0.40
31:DA:1783:A:N1	31:DA:2587:A:C4	2.90	0.40
31:DA:1798:U:C5'	33:DD:259:THR:HG22	2.41	0.40
31:DA:1808:U:H2'	31:DA:1809:A:O4'	2.21	0.40
31:DA:1864:U:C3'	31:DA:1865:G:H5"	2.52	0.40
31:DA:1983:C:H4'	31:DA:2606:C:O3'	2.20	0.40
31:DA:2251:G:C6	31:DA:2252:G:C5	3.09	0.40
31:DA:2335:A:C8	31:DA:2337:G:C6	3.10	0.40
31:DA:2441:C:O2	31:DA:2441:C:C2'	2.68	0.40
31:DA:2464:C:O2'	31:DA:2465:C:H6	2.04	0.40
31:DA:2826:A:C5	31:DA:2827:C:C5	3.08	0.40
33:DD:70:TRP:HZ3	33:DD:146:GLU:CD	2.30	0.40
36:DG:39:ILE:HA	36:DG:157:ILE:HA	2.03	0.40
44:DS:73:LEU:O	44:DS:74:ALA:C	2.65	0.40
45:DT:38:ASN:ND2	45:DT:40:THR:H	2.20	0.40
45:DT:68:TYR:CD1	45:DT:68:TYR:N	2.89	0.40
1:AA:32:A:C2	1:AA:33:A:C4	3.09	0.40
1:AA:233:C:C4	1:AA:234:C:C5	3.09	0.40
1:AA:397:A:N6	1:AA:548:G:C5	2.89	0.40
1:AA:437:U:H2'	1:AA:438:G:H8	1.86	0.40
1:AA:677:U:C4	1:AA:678:U:C4	3.09	0.40
1:AA:894:G:C6	1:AA:895:G:C5	3.09	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1080:A:H5"	1:AA:1081:G:OP2	2.21	0.40
1:AA:1399:C:H4'	1:AA:1400:C:H5"	2.04	0.40
2:AB:21:ARG:C	2:AB:23:ARG:H	2.30	0.40
2:AB:97:TRP:CZ3	2:AB:173:ALA:HA	2.54	0.40
2:AB:112:VAL:HG22	2:AB:149:LEU:HD13	2.04	0.40
4:AD:17:VAL:HG11	4:AD:197:PRO:CG	2.51	0.40
5:AE:51:VAL:HB	5:AE:52:PRO:CD	2.45	0.40
12:AL:25:PRO:O	12:AL:27:LEU:HD22	2.22	0.40
18:AR:36:ASN:HD22	18:AR:39:VAL:HG21	1.86	0.40
20:AT:46:GLU:HG2	20:AT:48:LYS:HE2	2.02	0.40
22:B0:20:ARG:NE	31:BA:2271:G:H5"	2.36	0.40
24:B2:32:LEU:CD1	24:B2:35:LEU:HA	2.52	0.40
25:B3:52:HIS:ND1	25:B3:53:LEU:HG	2.37	0.40
31:BA:150:C:H2'	31:BA:151:C:H6	1.86	0.40
31:BA:151:C:H2'	31:BA:152:G:H5'	2.04	0.40
31:BA:271(F):C:H6	31:BA:271(F):C:O5'	2.05	0.40
31:BA:271(P):C:P	38:BI:45:LYS:NZ	2.95	0.40
31:BA:272(D):G:H1	31:BA:364:C:H42	1.69	0.40
31:BA:627:A:H62	41:BP:84:ASN:HD21	1.70	0.40
31:BA:784:A:H5'	31:BA:785:G:OP1	2.22	0.40
31:BA:784:A:C8	31:BA:792:G:C5	3.09	0.40
31:BA:993:G:N3	47:BV:91:TYR:CE1	2.90	0.40
31:BA:1525:G:H2'	31:BA:1526:G:C8	2.57	0.40
31:BA:1566:A:OP1	33:BD:211:ARG:NH1	2.55	0.40
31:BA:1659:U:C4	31:BA:1660:C:C5	3.09	0.40
31:BA:1803:A:O3'	33:BD:259:THR:HG23	2.21	0.40
31:BA:1808:U:H2'	31:BA:1809:A:O4'	2.20	0.40
31:BA:1889:A:H2'	31:BA:1890:A:O4'	2.21	0.40
31:BA:1900:A:N1	31:BA:1970:A:C6	2.90	0.40
31:BA:2085:C:H2'	31:BA:2086:U:O4'	2.22	0.40
31:BA:2236:C:H2'	31:BA:2237:G:C5'	2.46	0.40
31:BA:2329:G:H2'	31:BA:2330:G:C8	2.57	0.40
31:BA:2402:C:C2'	31:BA:2403:C:H5'	2.51	0.40
31:BA:2603:G:C5	31:BA:2604:U:C5	3.10	0.40
31:BA:2674:G:H2'	31:BA:2675:A:O4'	2.21	0.40
31:BA:2694:G:C6	31:BA:2695:C:C4	3.10	0.40
32:BB:37:C:C6	32:BB:38:C:C5	3.09	0.40
34:BE:1:MET:CB	34:BE:83:ASP:O	2.67	0.40
34:BE:8:LYS:HG2	34:BE:192:ASN:HD22	1.86	0.40
34:BE:10:GLY:HA3	45:BT:8:LYS:CE	2.51	0.40
34:BE:82:ARG:HA	34:BE:82:ARG:HD3	1.92	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BG:134:GLY:HA2	36:BG:156:ASP:HA	2.04	0.40
42:BQ:20:ALA:HB2	42:BQ:99:PRO:CD	2.48	0.40
45:BT:78:LEU:C	45:BT:79:HIS:CG	3.00	0.40
48:BW:12:ILE:CG2	48:BW:17:VAL:HG22	2.51	0.40
51:BZ:157:LEU:HA	51:BZ:158:PRO:HD2	1.84	0.40
1:CA:105:G:C6	1:CA:106:C:N4	2.89	0.40
1:CA:146:G:N3	1:CA:146:G:H2'	2.36	0.40
1:CA:195:A:C6	1:CA:196:A:N1	2.90	0.40
1:CA:259:G:H2'	1:CA:260:G:O4'	2.21	0.40
1:CA:458:C:H3'	1:CA:460:G:H8	1.86	0.40
1:CA:627:G:O2'	1:CA:628:G:H5'	2.21	0.40
1:CA:658:G:C2	1:CA:659:U:C6	3.09	0.40
1:CA:707:C:OP1	11:CK:85:ARG:NH1	2.54	0.40
1:CA:1160:G:C2	1:CA:1161:C:C6	3.09	0.40
2:CB:55:PHE:CE1	2:CB:218:ALA:HA	2.45	0.40
2:CB:83:MET:C	2:CB:85:ALA:H	2.30	0.40
4:CD:79:PHE:CD1	4:CD:207:TYR:HD1	2.39	0.40
5:CE:142:LEU:O	5:CE:143:ARG:NE	2.55	0.40
6:CF:91:VAL:CG1	18:CR:72:ARG:HH12	2.33	0.40
8:CH:6:ILE:O	8:CH:7:ALA:C	2.65	0.40
8:CH:10:LEU:HD23	8:CH:10:LEU:H	1.85	0.40
8:CH:51:VAL:CG1	8:CH:60:ARG:HG3	2.46	0.40
8:CH:134:ILE:O	8:CH:135:CYS:HB3	2.22	0.40
9:CI:105:ASP:C	9:CI:107:ARG:H	2.27	0.40
10:CJ:22:LYS:C	10:CJ:24:VAL:H	2.29	0.40
17:CQ:63:ARG:HG2	17:CQ:64:PRO:N	2.37	0.40
20:CT:63:ILE:HG22	20:CT:77:ALA:HB1	2.02	0.40
27:D5:2:ALA:HB3	31:DA:747:U:C6	2.55	0.40
30:D8:51:ALA:HA	30:D8:54:GLU:CD	2.47	0.40
31:DA:17:G:H4'	46:DU:25:TRP:CZ2	2.56	0.40
31:DA:69:C:H2'	31:DA:70:G:H8	1.87	0.40
31:DA:108:U:H2'	31:DA:109:G:C8	2.56	0.40
31:DA:286:C:N4	31:DA:356:G:O6	2.55	0.40
31:DA:356:G:C2	31:DA:357:A:C4	3.10	0.40
31:DA:370:G:H3'	31:DA:423:A:C5	2.56	0.40
31:DA:466:A:C3'	31:DA:467:G:H5'	2.52	0.40
31:DA:489:G:H2'	31:DA:491:G:O4'	2.21	0.40
31:DA:626:U:H5"	31:DA:627:A:C5'	2.51	0.40
31:DA:1045:A:C4'	31:DA:1047:G:O4'	2.70	0.40
31:DA:1049:C:O2	31:DA:1050:A:N7	2.55	0.40
31:DA:1227:G:O2'	31:DA:1228:G:H5'	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DA:1500:G:C5	31:DA:1501:C:C4	3.10	0.40
31:DA:1503:U:H2'	31:DA:1504:C:O5'	2.22	0.40
31:DA:1517:G:C6	31:DA:1518:U:N3	2.90	0.40
31:DA:1655:A:H3'	31:DA:1656:C:C6	2.57	0.40
31:DA:1864:U:H3'	31:DA:1865:G:H5"	2.04	0.40
31:DA:1942:C:OP2	31:DA:1943:U:O2'	2.36	0.40
31:DA:1970:A:H5"	31:DA:1971:A:OP1	2.22	0.40
31:DA:2228:G:C5	31:DA:2229:C:C5	3.09	0.40
31:DA:2312:U:H4'	36:DG:71:THR:HG21	2.03	0.40
31:DA:2525:G:C2	31:DA:2539:C:C2	3.09	0.40
31:DA:2563:U:O2	31:DA:2565:A:H8	2.04	0.40
31:DA:2645:G:H3'	31:DA:2646:C:H5'	2.03	0.40
31:DA:2663:G:C6	31:DA:2664:G:C5	3.10	0.40
31:DA:2712:U:H1'	31:DA:2712(A):A:H8	1.83	0.40
31:DA:2801(A):A:H4'	31:DA:2802:G:C2'	2.49	0.40
32:DB:29:A:C2	32:DB:30:C:O2	2.74	0.40
32:DB:86:G:O5'	32:DB:86:G:H8	2.04	0.40
33:DD:5:LYS:N	33:DD:5:LYS:HD2	2.37	0.40
33:DD:165:ILE:HD13	33:DD:175:LEU:CD2	2.51	0.40
33:DD:248:SER:O	33:DD:249:PRO:C	2.63	0.40
34:DE:36:ARG:NH1	34:DE:85:ASN:HD21	2.19	0.40
34:DE:149:ARG:HG3	34:DE:149:ARG:NH1	2.36	0.40
34:DE:173:VAL:HG12	34:DE:174:ASP:N	2.37	0.40
35:DF:21:ALA:C	35:DF:23:ASP:N	2.79	0.40
36:DG:35:GLU:O	36:DG:36:LYS:HB2	2.20	0.40
36:DG:152:LEU:O	36:DG:153:ARG:HB2	2.21	0.40
37:DH:37:VAL:HG13	37:DH:68:THR:HG21	2.03	0.40
38:DI:81:VAL:HG12	38:DI:82:ARG:O	2.22	0.40
39:DN:100:GLU:O	39:DN:101:HIS:C	2.65	0.40
39:DN:131:GLN:HG2	39:DN:133:GLN:H	1.86	0.40
40:DO:22:ILE:HG22	40:DO:23:ARG:N	2.35	0.40
41:DP:6:LEU:HG	41:DP:8:PRO:O	2.22	0.40
42:DQ:7:MET:HE3	42:DQ:7:MET:HB3	1.96	0.40
42:DQ:37:LEU:HD12	42:DQ:129:THR:C	2.46	0.40
42:DQ:85:LYS:HG3	42:DQ:86:GLY:H	1.87	0.40
44:DS:24:LEU:HD13	44:DS:24:LEU:HA	1.93	0.40
45:DT:24:PRO:HA	45:DT:49:VAL:O	2.21	0.40
46:DU:91:ASP:OD2	46:DU:96:ALA:CB	2.69	0.40
46:DU:114:LYS:H	46:DU:114:LYS:HG2	1.63	0.40
49:DX:68:ARG:HG3	49:DX:69:TYR:CD1	2.56	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains (i)

There are no protein residues with a non-rotameric sidechain to report in this entry.

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	282 (18%)	31 (2%)
1	CA	1503/1522 (98%)	285 (18%)	31 (2%)
31	BA	2723/2787 (97%)	717 (26%)	70 (2%)
31	DA	2723/2787 (97%)	712 (26%)	69 (2%)
32	BB	118/122 (96%)	34 (28%)	1 (0%)
32	DB	118/122 (96%)	35 (29%)	1 (0%)
All	All	8688/8862 (98%)	2065 (23%)	203 (2%)

All (2065) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	9	G
1	AA	30	U
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	41	G
1	AA	47	C
1	AA	48	C
1	AA	50	A
1	AA	51	A
1	AA	59	A
1	AA	61	G
1	AA	63	C
1	AA	77	G
1	AA	80	G
1	AA	81	U
1	AA	90	U
1	AA	91	C
1	AA	97	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	98	G
1	AA	101	A
1	AA	115	G
1	AA	116	A
1	AA	119	A
1	AA	120	A
1	AA	121	C
1	AA	131	C
1	AA	138	G
1	AA	144	G
1	AA	147	G
1	AA	150	C
1	AA	163	C
1	AA	171	A
1	AA	172	A
1	AA	173	U
1	AA	181	G
1	AA	182	U
1	AA	189(H)	G
1	AA	195	A
1	AA	197	A
1	AA	202	U
1	AA	203	U
1	AA	216	G
1	AA	220	G
1	AA	231	G
1	AA	243	A
1	AA	244	U
1	AA	247	G
1	AA	251	G
1	AA	266	G
1	AA	267	C
1	AA	279	A
1	AA	281	G
1	AA	289	G
1	AA	298	A
1	AA	301	G
1	AA	321	A
1	AA	328	C
1	AA	330	C
1	AA	332	G
1	AA	343	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	344	A
1	AA	345	C
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	357	G
1	AA	365	U
1	AA	367	U
1	AA	369	C
1	AA	372	C
1	AA	373	A
1	AA	384	G
1	AA	390	C
1	AA	397	A
1	AA	398	C
1	AA	406	G
1	AA	409	G
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	415	A
1	AA	421	U
1	AA	422	C
1	AA	424	G
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	435	C
1	AA	437	U
1	AA	439	A
1	AA	442	C
1	AA	448	A
1	AA	452	A
1	AA	461	A
1	AA	470	C
1	AA	472	A
1	AA	483	C
1	AA	484	G
1	AA	485	G
1	AA	496	A
1	AA	498	U
1	AA	500	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	505	G
1	AA	509	A
1	AA	510	A
1	AA	511	C
1	AA	513	C
1	AA	518	C
1	AA	527	G
1	AA	531	U
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	537	G
1	AA	547	A
1	AA	558	G
1	AA	559	A
1	AA	560	U
1	AA	561	U
1	AA	562	C
1	AA	572	A
1	AA	573	A
1	AA	576	G
1	AA	588	G
1	AA	607	A
1	AA	616	G
1	AA	623	C
1	AA	630	G
1	AA	632	A
1	AA	633	G
1	AA	653	A
1	AA	655	A
1	AA	665	A
1	AA	671	G
1	AA	687	A
1	AA	688	G
1	AA	731	G
1	AA	733	A
1	AA	748	C
1	AA	749	C
1	AA	753	A
1	AA	754	C
1	AA	755	G
1	AA	760	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	776	G
1	AA	777	A
1	AA	786	G
1	AA	793	U
1	AA	794	A
1	AA	816	A
1	AA	817	C
1	AA	818	G
1	AA	828	A
1	AA	833	U
1	AA	839	U
1	AA	840	C
1	AA	841	U
1	AA	848	C
1	AA	859	A
1	AA	870	U
1	AA	902	G
1	AA	913	A
1	AA	914	A
1	AA	919	A
1	AA	926	G
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	960	U
1	AA	961	U
1	AA	967	C
1	AA	968	A
1	AA	969	A
1	AA	971	G
1	AA	972	C
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	978	A
1	AA	980	C
1	AA	983	A
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	1005	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1026	G
1	AA	1054	C
1	AA	1064	G
1	AA	1065	U
1	AA	1066	C
1	AA	1067	A
1	AA	1068	G
1	AA	1081	G
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1117	G
1	AA	1118	C
1	AA	1124	G
1	AA	1125	U
1	AA	1126	U
1	AA	1127	G
1	AA	1129	C
1	AA	1131	G
1	AA	1134	G
1	AA	1136	U
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1146	A
1	AA	1149	C
1	AA	1152	A
1	AA	1159	U
1	AA	1160	G
1	AA	1193	G
1	AA	1196	U
1	AA	1197	G
1	AA	1202	G
1	AA	1212	U
1	AA	1213	A
1	AA	1225	A
1	AA	1227	A
1	AA	1238	A
1	AA	1249	C
1	AA	1255	G
1	AA	1256	A
1	AA	1257	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1273	G
1	AA	1280	A
1	AA	1281	U
1	AA	1282	C
1	AA	1286	A
1	AA	1287	A
1	AA	1290	G
1	AA	1294	G
1	AA	1296	C
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1305	G
1	AA	1317	C
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1331	G
1	AA	1334	G
1	AA	1336	C
1	AA	1338	G
1	AA	1346	A
1	AA	1347	G
1	AA	1363	C
1	AA	1364	U
1	AA	1370	G
1	AA	1382	C
1	AA	1388	C
1	AA	1397	C
1	AA	1419	G
1	AA	1442	G
1	AA	1442(A)	G
1	AA	1442(B)	A
1	AA	1443	G
1	AA	1447	A
1	AA	1452	C
1	AA	1456	G
1	AA	1487	G
1	AA	1492	A
1	AA	1493	A
1	AA	1494	G
1	AA	1497	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1499	A
1	AA	1500	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1517	G
1	AA	1519	A
1	AA	1520	G
1	AA	1529	G
1	AA	1530	G
1	AA	1531	A
31	BA	10	G
31	BA	15	G
31	BA	23	G
31	BA	33	U
31	BA	34	C
31	BA	35	G
31	BA	36	G
31	BA	45	C
31	BA	49	A
31	BA	50	U
31	BA	51	G
31	BA	55	G
31	BA	61	G
31	BA	63	U
31	BA	64	A
31	BA	69	C
31	BA	71	A
31	BA	72	U
31	BA	74	A
31	BA	75	G
31	BA	84	A
31	BA	90	U
31	BA	92	A
31	BA	94	C
31	BA	94(A)	G
31	BA	95	G
31	BA	100	G
31	BA	102	G
31	BA	103	A
31	BA	117	G
31	BA	118	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	119	A
31	BA	120	U
31	BA	129	C
31	BA	131	G
31	BA	137	C
31	BA	139(A)	G
31	BA	141	A
31	BA	142	A
31	BA	142(A)	C
31	BA	146	G
31	BA	154(A)	C
31	BA	157	U
31	BA	158	U
31	BA	171	G
31	BA	173	G
31	BA	174	C
31	BA	175	G
31	BA	181	A
31	BA	196	A
31	BA	197	A
31	BA	199	A
31	BA	204	A
31	BA	205	G
31	BA	215	G
31	BA	216	A
31	BA	222	A
31	BA	225	A
31	BA	228	A
31	BA	229	A
31	BA	233	A
31	BA	248	G
31	BA	249	C
31	BA	252	G
31	BA	266	G
31	BA	271(I)	G
31	BA	271(J)	C
31	BA	271(K)	U
31	BA	271(L)	U
31	BA	271(M)	G
31	BA	271(N)	U
31	BA	271(O)	C
31	BA	271(R)	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	271(U)	G
31	BA	272(B)	G
31	BA	272(G)	C
31	BA	272(H)	C
31	BA	272(J)	C
31	BA	274	G
31	BA	275	G
31	BA	279	C
31	BA	281	G
31	BA	286	C
31	BA	287	C
31	BA	311	A
31	BA	329	G
31	BA	330	A
31	BA	332	A
31	BA	349	G
31	BA	351	G
31	BA	352	G
31	BA	353	G
31	BA	362	U
31	BA	363(B)	G
31	BA	363(F)	A
31	BA	370	G
31	BA	372	G
31	BA	386	G
31	BA	405	U
31	BA	406	G
31	BA	411	G
31	BA	412	A
31	BA	415	A
31	BA	418	G
31	BA	428	A
31	BA	444	C
31	BA	448	U
31	BA	450	G
31	BA	455	C
31	BA	470	A
31	BA	471	A
31	BA	472	A
31	BA	473	G
31	BA	474	G
31	BA	475	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	481	G
31	BA	505	A
31	BA	508	G
31	BA	509	C
31	BA	518	G
31	BA	530	G
31	BA	531	C
31	BA	532	A
31	BA	533	G
31	BA	537	C
31	BA	542	C
31	BA	543	C
31	BA	547	A
31	BA	548	A
31	BA	549	G
31	BA	563	G
31	BA	571	A
31	BA	573	G
31	BA	574	C
31	BA	575	A
31	BA	584	C
31	BA	586	A
31	BA	588	U
31	BA	592	G
31	BA	603	A
31	BA	607	U
31	BA	610	G
31	BA	614	U
31	BA	614(A)	U
31	BA	614(B)	G
31	BA	615	G
31	BA	619	G
31	BA	621	A
31	BA	622	G
31	BA	626	U
31	BA	627	A
31	BA	637	A
31	BA	644	A
31	BA	645	C
31	BA	646	A
31	BA	647	G
31	BA	651	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	652	C
31	BA	656	G
31	BA	657	U
31	BA	669	G
31	BA	670	A
31	BA	671	C
31	BA	685	A
31	BA	686	G
31	BA	707	G
31	BA	708	C
31	BA	717	G
31	BA	730	C
31	BA	744	G
31	BA	745	G
31	BA	752	A
31	BA	753	C
31	BA	762	U
31	BA	765	G
31	BA	774	A
31	BA	775	G
31	BA	776	G
31	BA	779	U
31	BA	782	A
31	BA	784	A
31	BA	785	G
31	BA	787	U
31	BA	790	C
31	BA	791	C
31	BA	792	G
31	BA	802	A
31	BA	805	G
31	BA	807	U
31	BA	808	G
31	BA	810	U
31	BA	812	C
31	BA	819	A
31	BA	826	U
31	BA	827	U
31	BA	828	U
31	BA	830	G
31	BA	832	G
31	BA	856	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	857	C
31	BA	859	G
31	BA	861	A
31	BA	865	C
31	BA	866	A
31	BA	872	A
31	BA	878	A
31	BA	883	G
31	BA	884	C
31	BA	892	G
31	BA	894	C
31	BA	896	A
31	BA	897	C
31	BA	898	C
31	BA	899	A
31	BA	901	A
31	BA	902	C
31	BA	907	U
31	BA	910	A
31	BA	913	U
31	BA	917	A
31	BA	919	G
31	BA	926	A
31	BA	932	G
31	BA	934	G
31	BA	938	G
31	BA	941	A
31	BA	945	A
31	BA	946	G
31	BA	958	U
31	BA	959	A
31	BA	961	C
31	BA	974	G
31	BA	975	C
31	BA	975(A)	G
31	BA	983	A
31	BA	991	C
31	BA	994	C
31	BA	996	A
31	BA	1011	G
31	BA	1012	U
31	BA	1013	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	1016	G
31	BA	1017	G
31	BA	1020	A
31	BA	1022	G
31	BA	1023	U
31	BA	1025	G
31	BA	1026	U
31	BA	1033	U
31	BA	1038	C
31	BA	1041	C
31	BA	1042	G
31	BA	1043	C
31	BA	1044	G
31	BA	1045	A
31	BA	1047	G
31	BA	1048	A
31	BA	1050	A
31	BA	1051	G
31	BA	1052	C
31	BA	1053	C
31	BA	1106	A
31	BA	1107	G
31	BA	1110	G
31	BA	1112	G
31	BA	1113	U
31	BA	1114	G
31	BA	1115	G
31	BA	1122	G
31	BA	1130	U
31	BA	1135	C
31	BA	1136	G
31	BA	1139	G
31	BA	1142	U
31	BA	1142(A)	A
31	BA	1143	A
31	BA	1155	A
31	BA	1156	A
31	BA	1158	C
31	BA	1169	G
31	BA	1171	G
31	BA	1173	G
31	BA	1174	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	1175	U
31	BA	1176	G
31	BA	1177	A
31	BA	1178	C
31	BA	1180	C
31	BA	1195	G
31	BA	1204	A
31	BA	1206	G
31	BA	1210	A
31	BA	1211	U
31	BA	1220	A
31	BA	1221	C
31	BA	1241	A
31	BA	1250	G
31	BA	1251	C
31	BA	1253	A
31	BA	1255	U
31	BA	1256	G
31	BA	1265	A
31	BA	1271	G
31	BA	1272	A
31	BA	1273	U
31	BA	1280	G
31	BA	1281	G
31	BA	1287	A
31	BA	1298	C
31	BA	1300	U
31	BA	1301	A
31	BA	1305	C
31	BA	1310	G
31	BA	1314	C
31	BA	1317	A
31	BA	1318	C
31	BA	1319	G
31	BA	1329	U
31	BA	1332	G
31	BA	1345	C
31	BA	1347	G
31	BA	1349	A
31	BA	1358	G
31	BA	1359	A
31	BA	1360	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	1365	A
31	BA	1367	A
31	BA	1368	G
31	BA	1370	C
31	BA	1379	A
31	BA	1380	G
31	BA	1384	A
31	BA	1385	G
31	BA	1386	C
31	BA	1395	A
31	BA	1398	C
31	BA	1407	C
31	BA	1416	G
31	BA	1417	C
31	BA	1420	U
31	BA	1421	G
31	BA	1427	A
31	BA	1428	C
31	BA	1437	C
31	BA	1445	A
31	BA	1449	A
31	BA	1450	G
31	BA	1455	G
31	BA	1458	C
31	BA	1459	G
31	BA	1460	A
31	BA	1461	G
31	BA	1466	G
31	BA	1467	C
31	BA	1471	A
31	BA	1472	A
31	BA	1473	G
31	BA	1474	C
31	BA	1475	G
31	BA	1478	G
31	BA	1480	G
31	BA	1481	U
31	BA	1482	G
31	BA	1490	A
31	BA	1493	C
31	BA	1494	A
31	BA	1495	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	1497	U
31	BA	1498	C
31	BA	1505	C
31	BA	1506	C
31	BA	1508	A
31	BA	1509	C
31	BA	1509(A)	A
31	BA	1512	U
31	BA	1520	G
31	BA	1526	G
31	BA	1528	A
31	BA	1528(A)	A
31	BA	1529	G
31	BA	1530	C
31	BA	1531	C
31	BA	1532	C
31	BA	1533	G
31	BA	1543	C
31	BA	1545	A
31	BA	1558	A
31	BA	1559	G
31	BA	1566	A
31	BA	1569	A
31	BA	1578	U
31	BA	1580	A
31	BA	1581	G
31	BA	1584	C
31	BA	1586	A
31	BA	1588	C
31	BA	1591	G
31	BA	1597	A
31	BA	1598	C
31	BA	1603	A
31	BA	1608	A
31	BA	1609	A
31	BA	1610	A
31	BA	1617	C
31	BA	1618	A
31	BA	1625	C
31	BA	1631(A)	A
31	BA	1635	G
31	BA	1640	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	1648	C
31	BA	1649	G
31	BA	1653	G
31	BA	1654	A
31	BA	1655	A
31	BA	1669	A
31	BA	1674	G
31	BA	1675	C
31	BA	1676	A
31	BA	1680	U
31	BA	1681	G
31	BA	1687	G
31	BA	1694	C
31	BA	1695	G
31	BA	1696	G
31	BA	1697	G
31	BA	1698	A
31	BA	1700	A
31	BA	1703	G
31	BA	1721	G
31	BA	1722	A
31	BA	1739	U
31	BA	1741	A
31	BA	1742	G
31	BA	1744	C
31	BA	1745	C
31	BA	1746	G
31	BA	1750	G
31	BA	1754	C
31	BA	1756	G
31	BA	1758	G
31	BA	1763	G
31	BA	1764	G
31	BA	1773	A
31	BA	1780	A
31	BA	1781	C
31	BA	1782	C
31	BA	1787	A
31	BA	1791	A
31	BA	1798	U
31	BA	1799	G
31	BA	1800	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	1801	G
31	BA	1812	A
31	BA	1816	G
31	BA	1820	U
31	BA	1829	A
31	BA	1835	G
31	BA	1836	C
31	BA	1838	C
31	BA	1839	G
31	BA	1847	A
31	BA	1858	G
31	BA	1865	G
31	BA	1866	C
31	BA	1877	A
31	BA	1878	G
31	BA	1880	C
31	BA	1881	C
31	BA	1882	C
31	BA	1885	A
31	BA	1888	G
31	BA	1889	A
31	BA	1896	G
31	BA	1900	A
31	BA	1902	C
31	BA	1903	G
31	BA	1905	C
31	BA	1906	G
31	BA	1913	A
31	BA	1914	C
31	BA	1918	A
31	BA	1927	A
31	BA	1929	G
31	BA	1930	G
31	BA	1934	C
31	BA	1935	G
31	BA	1936	A
31	BA	1937	A
31	BA	1938	A
31	BA	1955	U
31	BA	1961	C
31	BA	1963	U
31	BA	1964	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	1965	C
31	BA	1967	C
31	BA	1969	A
31	BA	1970	A
31	BA	1971	A
31	BA	1972	A
31	BA	1982	C
31	BA	1983	C
31	BA	1991	U
31	BA	1992	G
31	BA	1993	U
31	BA	1997	G
31	BA	2018	G
31	BA	2023	G
31	BA	2031	A
31	BA	2033	A
31	BA	2036	C
31	BA	2039	C
31	BA	2043	C
31	BA	2055	C
31	BA	2056	G
31	BA	2060	A
31	BA	2061	G
31	BA	2062	A
31	BA	2069	G
31	BA	2071	A
31	BA	2099	U
31	BA	2100	G
31	BA	2103	C
31	BA	2104	G
31	BA	2187	G
31	BA	2190	G
31	BA	2191	G
31	BA	2192	G
31	BA	2198	A
31	BA	2199	A
31	BA	2200	C
31	BA	2203	U
31	BA	2206	G
31	BA	2207	G
31	BA	2208	A
31	BA	2218	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	2219	G
31	BA	2225	A
31	BA	2226	C
31	BA	2227	A
31	BA	2238	G
31	BA	2239	G
31	BA	2245	U
31	BA	2246	G
31	BA	2268	A
31	BA	2272	U
31	BA	2273	A
31	BA	2275	C
31	BA	2280	G
31	BA	2283	C
31	BA	2287	A
31	BA	2288	A
31	BA	2289	G
31	BA	2303	G
31	BA	2304	G
31	BA	2305	A
31	BA	2307	G
31	BA	2308	G
31	BA	2309	A
31	BA	2311	A
31	BA	2316	C
31	BA	2318	G
31	BA	2319	G
31	BA	2320	A
31	BA	2321	G
31	BA	2325	G
31	BA	2334	G
31	BA	2336	A
31	BA	2340	G
31	BA	2342	C
31	BA	2345	G
31	BA	2346	A
31	BA	2347	C
31	BA	2350	C
31	BA	2353	G
31	BA	2360	A
31	BA	2361	A
31	BA	2376	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	2383	G
31	BA	2385	C
31	BA	2387	U
31	BA	2388	A
31	BA	2393	A
31	BA	2395	C
31	BA	2402	C
31	BA	2403	C
31	BA	2405	G
31	BA	2406	U
31	BA	2420	C
31	BA	2422	A
31	BA	2423	U
31	BA	2425	A
31	BA	2429	G
31	BA	2430	A
31	BA	2435	A
31	BA	2439	A
31	BA	2440	C
31	BA	2441	C
31	BA	2447	G
31	BA	2448	A
31	BA	2464	C
31	BA	2465	C
31	BA	2468	G
31	BA	2469	A
31	BA	2470	G
31	BA	2472	G
31	BA	2473	U
31	BA	2476	A
31	BA	2478	A
31	BA	2482	G
31	BA	2483	C
31	BA	2484	G
31	BA	2487	G
31	BA	2494	G
31	BA	2495	G
31	BA	2497	A
31	BA	2500	U
31	BA	2502	G
31	BA	2504	U
31	BA	2505	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	2518	A
31	BA	2520	C
31	BA	2524	G
31	BA	2529	G
31	BA	2533	A
31	BA	2535	G
31	BA	2542	A
31	BA	2543	G
31	BA	2550	G
31	BA	2554	U
31	BA	2558	C
31	BA	2559	C
31	BA	2566	A
31	BA	2567	G
31	BA	2569	G
31	BA	2578	G
31	BA	2582	G
31	BA	2585	U
31	BA	2586	C
31	BA	2601	C
31	BA	2602	A
31	BA	2608	G
31	BA	2609	U
31	BA	2610	C
31	BA	2611	U
31	BA	2612	C
31	BA	2615	U
31	BA	2620	C
31	BA	2629	A
31	BA	2630	G
31	BA	2636	U
31	BA	2637	U
31	BA	2646	C
31	BA	2654	A
31	BA	2655	G
31	BA	2658	C
31	BA	2659	G
31	BA	2660	A
31	BA	2661	G
31	BA	2662	A
31	BA	2663	G
31	BA	2670	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	2673	G
31	BA	2679	A
31	BA	2682	U
31	BA	2690	C
31	BA	2702	U
31	BA	2703	C
31	BA	2712	U
31	BA	2712(A)	A
31	BA	2713	A
31	BA	2718	G
31	BA	2726	U
31	BA	2733	A
31	BA	2752	C
31	BA	2753	A
31	BA	2754	U
31	BA	2755	C
31	BA	2757	A
31	BA	2758	A
31	BA	2759	G
31	BA	2762	G
31	BA	2764	A
31	BA	2765	A
31	BA	2766	G
31	BA	2778	A
31	BA	2779	U
31	BA	2781	A
31	BA	2789	C
31	BA	2790	A
31	BA	2791	C
31	BA	2792	G
31	BA	2793	G
31	BA	2794	C
31	BA	2795	G
31	BA	2801(A)	A
31	BA	2802	G
31	BA	2803	C
31	BA	2804	C
31	BA	2808	U
31	BA	2818	G
31	BA	2820	A
31	BA	2821	A
31	BA	2827	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	2833	G
31	BA	2834	G
31	BA	2835	A
31	BA	2850	A
31	BA	2851	A
31	BA	2860	A
31	BA	2863	C
31	BA	2872	G
31	BA	2880	C
31	BA	2889	C
31	BA	2892	A
31	BA	2894	G
31	BA	2895	U
31	BA	2897	U
32	BB	8	U
32	BB	9	G
32	BB	12	C
32	BB	13	A
32	BB	15	A
32	BB	16	G
32	BB	22	U
32	BB	24	G
32	BB	27	C
32	BB	28	C
32	BB	29	A
32	BB	40	U
32	BB	42	C
32	BB	43	C
32	BB	45	A
32	BB	51	G
32	BB	52	A
32	BB	53	A
32	BB	54	G
32	BB	73	A
32	BB	75	G
32	BB	80	U
32	BB	85	G
32	BB	87	G
32	BB	88	C
32	BB	89	G
32	BB	90	A
32	BB	91	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
32	BB	106	G
32	BB	108	U
32	BB	109	C
32	BB	110	G
32	BB	116	G
32	BB	117	G
1	CA	9	G
1	CA	30	U
1	CA	31	G
1	CA	32	A
1	CA	39	G
1	CA	41	G
1	CA	47	C
1	CA	48	C
1	CA	50	A
1	CA	51	A
1	CA	59	A
1	CA	61	G
1	CA	63	C
1	CA	77	G
1	CA	80	G
1	CA	81	U
1	CA	88	A
1	CA	90	U
1	CA	91	C
1	CA	97	G
1	CA	98	G
1	CA	101	A
1	CA	115	G
1	CA	116	A
1	CA	119	A
1	CA	120	A
1	CA	121	C
1	CA	131	C
1	CA	138	G
1	CA	144	G
1	CA	147	G
1	CA	150	C
1	CA	158	G
1	CA	163	C
1	CA	171	A
1	CA	172	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	CA	173	U
1	CA	181	G
1	CA	182	U
1	CA	189(H)	G
1	CA	195	A
1	CA	197	A
1	CA	202	U
1	CA	203	U
1	CA	216	G
1	CA	220	G
1	CA	231	G
1	CA	243	A
1	CA	244	U
1	CA	247	G
1	CA	251	G
1	CA	266	G
1	CA	267	C
1	CA	279	A
1	CA	281	G
1	CA	289	G
1	CA	298	A
1	CA	301	G
1	CA	321	A
1	CA	328	C
1	CA	330	C
1	CA	332	G
1	CA	343	U
1	CA	344	A
1	CA	345	C
1	CA	352	C
1	CA	353	A
1	CA	354	G
1	CA	357	G
1	CA	365	U
1	CA	367	U
1	CA	369	C
1	CA	372	C
1	CA	373	A
1	CA	384	G
1	CA	390	C
1	CA	397	A
1	CA	398	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	CA	406	G
1	CA	409	G
1	CA	412	A
1	CA	413	G
1	CA	414	A
1	CA	415	A
1	CA	421	U
1	CA	422	C
1	CA	424	G
1	CA	428	G
1	CA	429	U
1	CA	430	A
1	CA	435	C
1	CA	437	U
1	CA	439	A
1	CA	442	C
1	CA	448	A
1	CA	452	A
1	CA	461	A
1	CA	470	C
1	CA	472	A
1	CA	483	C
1	CA	484	G
1	CA	485	G
1	CA	496	A
1	CA	498	U
1	CA	500	G
1	CA	505	G
1	CA	509	A
1	CA	510	A
1	CA	511	C
1	CA	513	C
1	CA	518	C
1	CA	527	G
1	CA	531	U
1	CA	532	A
1	CA	533	A
1	CA	534	U
1	CA	547	A
1	CA	558	G
1	CA	559	A
1	CA	560	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	CA	561	U
1	CA	562	C
1	CA	572	A
1	CA	573	A
1	CA	576	G
1	CA	588	G
1	CA	616	G
1	CA	623	C
1	CA	630	G
1	CA	632	A
1	CA	633	G
1	CA	653	A
1	CA	655	A
1	CA	665	A
1	CA	671	G
1	CA	687	A
1	CA	688	G
1	CA	731	G
1	CA	733	A
1	CA	748	C
1	CA	749	C
1	CA	753	A
1	CA	754	C
1	CA	755	G
1	CA	760	G
1	CA	776	G
1	CA	777	A
1	CA	786	G
1	CA	792	A
1	CA	793	U
1	CA	794	A
1	CA	810	C
1	CA	816	A
1	CA	817	C
1	CA	818	G
1	CA	828	A
1	CA	833	U
1	CA	836	G
1	CA	839	U
1	CA	840	C
1	CA	841	U
1	CA	848	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	CA	859	A
1	CA	870	U
1	CA	902	G
1	CA	913	A
1	CA	914	A
1	CA	919	A
1	CA	926	G
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	960	U
1	CA	961	U
1	CA	967	C
1	CA	968	A
1	CA	969	A
1	CA	971	G
1	CA	972	C
1	CA	974	A
1	CA	975	A
1	CA	976	G
1	CA	977	A
1	CA	978	A
1	CA	980	C
1	CA	983	A
1	CA	991	U
1	CA	992	U
1	CA	993	G
1	CA	1005	A
1	CA	1026	G
1	CA	1054	C
1	CA	1064	G
1	CA	1065	U
1	CA	1066	C
1	CA	1067	A
1	CA	1068	G
1	CA	1081	G
1	CA	1094	G
1	CA	1095	U
1	CA	1101	A
1	CA	1117	G
1	CA	1118	C
1	CA	1124	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	CA	1125	U
1	CA	1126	U
1	CA	1127	G
1	CA	1129	C
1	CA	1131	G
1	CA	1136	U
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1146	A
1	CA	1149	C
1	CA	1152	A
1	CA	1159	U
1	CA	1160	G
1	CA	1193	G
1	CA	1195	C
1	CA	1196	U
1	CA	1197	G
1	CA	1202	G
1	CA	1212	U
1	CA	1213	A
1	CA	1225	A
1	CA	1227	A
1	CA	1238	A
1	CA	1249	C
1	CA	1255	G
1	CA	1256	A
1	CA	1257	U
1	CA	1273	G
1	CA	1280	A
1	CA	1281	U
1	CA	1282	C
1	CA	1286	A
1	CA	1287	A
1	CA	1290	G
1	CA	1294	G
1	CA	1296	C
1	CA	1300	G
1	CA	1301	U
1	CA	1302	U
1	CA	1305	G
1	CA	1317	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	CA	1320	C
1	CA	1322	C
1	CA	1323	G
1	CA	1331	G
1	CA	1334	G
1	CA	1338	G
1	CA	1346	A
1	CA	1347	G
1	CA	1363	C
1	CA	1364	U
1	CA	1370	G
1	CA	1382	C
1	CA	1388	C
1	CA	1397	C
1	CA	1400	C
1	CA	1419	G
1	CA	1442	G
1	CA	1442(A)	G
1	CA	1442(B)	A
1	CA	1443	G
1	CA	1447	A
1	CA	1452	C
1	CA	1456	G
1	CA	1487	G
1	CA	1492	A
1	CA	1493	A
1	CA	1494	G
1	CA	1497	G
1	CA	1499	A
1	CA	1500	A
1	CA	1504	G
1	CA	1505	G
1	CA	1506	U
1	CA	1517	G
1	CA	1519	A
1	CA	1520	G
1	CA	1529	G
1	CA	1530	G
1	CA	1531	A
31	DA	10	G
31	DA	23	G
31	DA	33	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	34	C
31	DA	35	G
31	DA	36	G
31	DA	45	C
31	DA	49	A
31	DA	50	U
31	DA	51	G
31	DA	55	G
31	DA	61	G
31	DA	64	A
31	DA	69	C
31	DA	71	A
31	DA	72	U
31	DA	74	A
31	DA	75	G
31	DA	84	A
31	DA	90	U
31	DA	92	A
31	DA	94	C
31	DA	94(A)	G
31	DA	95	G
31	DA	100	G
31	DA	102	G
31	DA	103	A
31	DA	117	G
31	DA	118	A
31	DA	120	U
31	DA	129	C
31	DA	131	G
31	DA	137	C
31	DA	139(A)	G
31	DA	141	A
31	DA	142	A
31	DA	142(A)	C
31	DA	146	G
31	DA	154(A)	C
31	DA	157	U
31	DA	158	U
31	DA	171	G
31	DA	173	G
31	DA	174	C
31	DA	175	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	181	A
31	DA	196	A
31	DA	197	A
31	DA	199	A
31	DA	204	A
31	DA	205	G
31	DA	215	G
31	DA	216	A
31	DA	222	A
31	DA	225	A
31	DA	228	A
31	DA	229	A
31	DA	233	A
31	DA	248	G
31	DA	249	C
31	DA	250	G
31	DA	252	G
31	DA	266	G
31	DA	271(I)	G
31	DA	271(J)	C
31	DA	271(K)	U
31	DA	271(L)	U
31	DA	271(M)	G
31	DA	271(N)	U
31	DA	271(O)	C
31	DA	271(R)	G
31	DA	271(U)	G
31	DA	272(B)	G
31	DA	272(G)	C
31	DA	272(H)	C
31	DA	272(J)	C
31	DA	274	G
31	DA	275	G
31	DA	279	C
31	DA	281	G
31	DA	286	C
31	DA	287	C
31	DA	311	A
31	DA	329	G
31	DA	330	A
31	DA	332	A
31	DA	349	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	351	G
31	DA	352	G
31	DA	353	G
31	DA	362	U
31	DA	363(B)	G
31	DA	363(F)	A
31	DA	370	G
31	DA	372	G
31	DA	386	G
31	DA	405	U
31	DA	406	G
31	DA	411	G
31	DA	412	A
31	DA	415	A
31	DA	418	G
31	DA	428	A
31	DA	444	C
31	DA	448	U
31	DA	450	G
31	DA	455	C
31	DA	470	A
31	DA	471	A
31	DA	472	A
31	DA	473	G
31	DA	474	G
31	DA	475	U
31	DA	481	G
31	DA	505	A
31	DA	508	G
31	DA	509	C
31	DA	518	G
31	DA	530	G
31	DA	531	C
31	DA	532	A
31	DA	533	G
31	DA	536	A
31	DA	537	C
31	DA	542	C
31	DA	543	C
31	DA	547	A
31	DA	548	A
31	DA	549	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	563	G
31	DA	571	A
31	DA	573	G
31	DA	574	C
31	DA	575	A
31	DA	584	C
31	DA	586	A
31	DA	588	U
31	DA	592	G
31	DA	603	A
31	DA	607	U
31	DA	610	G
31	DA	614	U
31	DA	614(A)	U
31	DA	614(B)	G
31	DA	615	G
31	DA	619	G
31	DA	621	A
31	DA	622	G
31	DA	626	U
31	DA	627	A
31	DA	637	A
31	DA	644	A
31	DA	645	C
31	DA	646	A
31	DA	647	G
31	DA	651	G
31	DA	652	C
31	DA	656	G
31	DA	657	U
31	DA	669	G
31	DA	670	A
31	DA	671	C
31	DA	685	A
31	DA	686	G
31	DA	707	G
31	DA	708	C
31	DA	717	G
31	DA	730	C
31	DA	744	G
31	DA	745	G
31	DA	746	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	752	A
31	DA	753	C
31	DA	765	G
31	DA	774	A
31	DA	775	G
31	DA	776	G
31	DA	779	U
31	DA	782	A
31	DA	784	A
31	DA	785	G
31	DA	787	U
31	DA	790	C
31	DA	791	C
31	DA	792	G
31	DA	805	G
31	DA	807	U
31	DA	808	G
31	DA	812	C
31	DA	819	A
31	DA	826	U
31	DA	827	U
31	DA	828	U
31	DA	830	G
31	DA	832	G
31	DA	856	C
31	DA	857	C
31	DA	859	G
31	DA	861	A
31	DA	865	C
31	DA	866	A
31	DA	872	A
31	DA	878	A
31	DA	883	G
31	DA	884	C
31	DA	892	G
31	DA	894	C
31	DA	896	A
31	DA	897	C
31	DA	898	C
31	DA	899	A
31	DA	901	A
31	DA	902	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	907	U
31	DA	910	A
31	DA	913	U
31	DA	917	A
31	DA	919	G
31	DA	926	A
31	DA	932	G
31	DA	938	G
31	DA	941	A
31	DA	945	A
31	DA	946	G
31	DA	958	U
31	DA	959	A
31	DA	961	C
31	DA	974	G
31	DA	975	C
31	DA	975(A)	G
31	DA	983	A
31	DA	991	C
31	DA	996	A
31	DA	1011	G
31	DA	1012	U
31	DA	1013	C
31	DA	1016	G
31	DA	1017	G
31	DA	1020	A
31	DA	1022	G
31	DA	1023	U
31	DA	1025	G
31	DA	1026	U
31	DA	1033	U
31	DA	1038	C
31	DA	1041	C
31	DA	1042	G
31	DA	1043	C
31	DA	1044	G
31	DA	1045	A
31	DA	1047	G
31	DA	1048	A
31	DA	1050	A
31	DA	1051	G
31	DA	1052	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	1053	C
31	DA	1106	A
31	DA	1107	G
31	DA	1110	G
31	DA	1112	G
31	DA	1113	U
31	DA	1114	G
31	DA	1115	G
31	DA	1122	G
31	DA	1130	U
31	DA	1135	C
31	DA	1136	G
31	DA	1139	G
31	DA	1142	U
31	DA	1155	A
31	DA	1156	A
31	DA	1158	C
31	DA	1169	G
31	DA	1171	G
31	DA	1173	G
31	DA	1174	A
31	DA	1175	U
31	DA	1176	G
31	DA	1177	A
31	DA	1178	C
31	DA	1180	C
31	DA	1195	G
31	DA	1204	A
31	DA	1206	G
31	DA	1210	A
31	DA	1211	U
31	DA	1220	A
31	DA	1221	C
31	DA	1236	G
31	DA	1241	A
31	DA	1250	G
31	DA	1251	C
31	DA	1253	A
31	DA	1255	U
31	DA	1256	G
31	DA	1265	A
31	DA	1271	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	1272	A
31	DA	1273	U
31	DA	1280	G
31	DA	1281	G
31	DA	1287	A
31	DA	1298	C
31	DA	1300	U
31	DA	1301	A
31	DA	1305	C
31	DA	1310	G
31	DA	1314	C
31	DA	1317	A
31	DA	1318	C
31	DA	1319	G
31	DA	1329	U
31	DA	1332	G
31	DA	1345	C
31	DA	1347	G
31	DA	1349	A
31	DA	1359	A
31	DA	1360	A
31	DA	1365	A
31	DA	1367	A
31	DA	1368	G
31	DA	1370	C
31	DA	1378	A
31	DA	1379	A
31	DA	1380	G
31	DA	1384	A
31	DA	1385	G
31	DA	1386	C
31	DA	1395	A
31	DA	1397	U
31	DA	1398	C
31	DA	1407	C
31	DA	1416	G
31	DA	1417	C
31	DA	1420	U
31	DA	1421	G
31	DA	1427	A
31	DA	1428	C
31	DA	1437	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	1445	A
31	DA	1449	A
31	DA	1450	G
31	DA	1455	G
31	DA	1458	C
31	DA	1459	G
31	DA	1460	A
31	DA	1461	G
31	DA	1466	G
31	DA	1467	C
31	DA	1471	A
31	DA	1472	A
31	DA	1473	G
31	DA	1474	C
31	DA	1475	G
31	DA	1478	G
31	DA	1480	G
31	DA	1481	U
31	DA	1482	G
31	DA	1490	A
31	DA	1493	C
31	DA	1494	A
31	DA	1495	A
31	DA	1497	U
31	DA	1498	C
31	DA	1505	C
31	DA	1506	C
31	DA	1508	A
31	DA	1509	C
31	DA	1509(A)	A
31	DA	1512	U
31	DA	1520	G
31	DA	1526	G
31	DA	1528	A
31	DA	1528(A)	A
31	DA	1529	G
31	DA	1530	C
31	DA	1531	C
31	DA	1532	C
31	DA	1533	G
31	DA	1543	C
31	DA	1545	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	1558	A
31	DA	1559	G
31	DA	1566	A
31	DA	1569	A
31	DA	1578	U
31	DA	1580	A
31	DA	1581	G
31	DA	1584	C
31	DA	1586	A
31	DA	1588	C
31	DA	1591	G
31	DA	1597	A
31	DA	1598	C
31	DA	1603	A
31	DA	1608	A
31	DA	1609	A
31	DA	1610	A
31	DA	1617	C
31	DA	1618	A
31	DA	1625	C
31	DA	1631(A)	A
31	DA	1635	G
31	DA	1640	C
31	DA	1648	C
31	DA	1649	G
31	DA	1653	G
31	DA	1654	A
31	DA	1669	A
31	DA	1674	G
31	DA	1675	C
31	DA	1676	A
31	DA	1680	U
31	DA	1681	G
31	DA	1687	G
31	DA	1694	C
31	DA	1695	G
31	DA	1696	G
31	DA	1697	G
31	DA	1698	A
31	DA	1700	A
31	DA	1703	G
31	DA	1721	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	1722	A
31	DA	1739	U
31	DA	1741	A
31	DA	1742	G
31	DA	1744	C
31	DA	1745	C
31	DA	1746	G
31	DA	1750	G
31	DA	1752	C
31	DA	1753	G
31	DA	1754	C
31	DA	1756	G
31	DA	1758	G
31	DA	1763	G
31	DA	1764	G
31	DA	1773	A
31	DA	1780	A
31	DA	1781	C
31	DA	1782	C
31	DA	1787	A
31	DA	1791	A
31	DA	1798	U
31	DA	1799	G
31	DA	1800	C
31	DA	1801	G
31	DA	1812	A
31	DA	1816	G
31	DA	1820	U
31	DA	1829	A
31	DA	1835	G
31	DA	1836	C
31	DA	1838	C
31	DA	1839	G
31	DA	1847	A
31	DA	1858	G
31	DA	1865	G
31	DA	1866	C
31	DA	1877	A
31	DA	1878	G
31	DA	1880	C
31	DA	1881	C
31	DA	1882	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	1885	A
31	DA	1888	G
31	DA	1889	A
31	DA	1896	G
31	DA	1900	A
31	DA	1903	G
31	DA	1905	C
31	DA	1906	G
31	DA	1913	A
31	DA	1914	C
31	DA	1918	A
31	DA	1927	A
31	DA	1929	G
31	DA	1930	G
31	DA	1934	C
31	DA	1935	G
31	DA	1936	A
31	DA	1937	A
31	DA	1938	A
31	DA	1955	U
31	DA	1963	U
31	DA	1964	G
31	DA	1965	C
31	DA	1967	C
31	DA	1969	A
31	DA	1970	A
31	DA	1971	A
31	DA	1972	A
31	DA	1982	C
31	DA	1983	C
31	DA	1991	U
31	DA	1992	G
31	DA	1993	U
31	DA	1997	G
31	DA	2018	G
31	DA	2023	G
31	DA	2031	A
31	DA	2032	G
31	DA	2033	A
31	DA	2036	C
31	DA	2039	C
31	DA	2043	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	2055	C
31	DA	2056	G
31	DA	2060	A
31	DA	2061	G
31	DA	2062	A
31	DA	2069	G
31	DA	2071	A
31	DA	2099	U
31	DA	2100	G
31	DA	2103	C
31	DA	2104	G
31	DA	2187	G
31	DA	2190	G
31	DA	2191	G
31	DA	2192	G
31	DA	2198	A
31	DA	2199	A
31	DA	2200	C
31	DA	2203	U
31	DA	2206	G
31	DA	2207	G
31	DA	2208	A
31	DA	2218	U
31	DA	2219	G
31	DA	2225	A
31	DA	2226	C
31	DA	2227	A
31	DA	2238	G
31	DA	2239	G
31	DA	2245	U
31	DA	2246	G
31	DA	2268	A
31	DA	2272	U
31	DA	2273	A
31	DA	2274	A
31	DA	2275	C
31	DA	2280	G
31	DA	2283	C
31	DA	2287	A
31	DA	2288	A
31	DA	2289	G
31	DA	2303	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	2304	G
31	DA	2305	A
31	DA	2307	G
31	DA	2308	G
31	DA	2309	A
31	DA	2311	A
31	DA	2316	C
31	DA	2319	G
31	DA	2320	A
31	DA	2321	G
31	DA	2325	G
31	DA	2334	G
31	DA	2336	A
31	DA	2340	G
31	DA	2342	C
31	DA	2345	G
31	DA	2346	A
31	DA	2347	C
31	DA	2350	C
31	DA	2353	G
31	DA	2360	A
31	DA	2361	A
31	DA	2376	A
31	DA	2383	G
31	DA	2385	C
31	DA	2387	U
31	DA	2388	A
31	DA	2393	A
31	DA	2395	C
31	DA	2402	C
31	DA	2403	C
31	DA	2405	G
31	DA	2406	U
31	DA	2411	A
31	DA	2422	A
31	DA	2423	U
31	DA	2425	A
31	DA	2429	G
31	DA	2430	A
31	DA	2434	A
31	DA	2435	A
31	DA	2439	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	2440	C
31	DA	2441	C
31	DA	2447	G
31	DA	2448	A
31	DA	2464	C
31	DA	2465	C
31	DA	2468	G
31	DA	2469	A
31	DA	2470	G
31	DA	2472	G
31	DA	2473	U
31	DA	2476	A
31	DA	2478	A
31	DA	2482	G
31	DA	2483	C
31	DA	2484	G
31	DA	2487	G
31	DA	2494	G
31	DA	2495	G
31	DA	2497	A
31	DA	2500	U
31	DA	2502	G
31	DA	2504	U
31	DA	2505	G
31	DA	2518	A
31	DA	2520	C
31	DA	2524	G
31	DA	2529	G
31	DA	2533	A
31	DA	2535	G
31	DA	2542	A
31	DA	2543	G
31	DA	2550	G
31	DA	2554	U
31	DA	2559	C
31	DA	2566	A
31	DA	2567	G
31	DA	2569	G
31	DA	2578	G
31	DA	2585	U
31	DA	2586	C
31	DA	2601	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	2602	A
31	DA	2608	G
31	DA	2609	U
31	DA	2610	C
31	DA	2611	U
31	DA	2612	C
31	DA	2613	U
31	DA	2615	U
31	DA	2620	C
31	DA	2629	A
31	DA	2630	G
31	DA	2636	U
31	DA	2637	U
31	DA	2646	C
31	DA	2654	A
31	DA	2655	G
31	DA	2658	C
31	DA	2659	G
31	DA	2660	A
31	DA	2661	G
31	DA	2662	A
31	DA	2663	G
31	DA	2670	A
31	DA	2673	G
31	DA	2682	U
31	DA	2690	C
31	DA	2702	U
31	DA	2703	C
31	DA	2712	U
31	DA	2712(A)	A
31	DA	2713	A
31	DA	2726	U
31	DA	2733	A
31	DA	2752	C
31	DA	2753	A
31	DA	2754	U
31	DA	2757	A
31	DA	2758	A
31	DA	2759	G
31	DA	2762	G
31	DA	2764	A
31	DA	2765	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	2766	G
31	DA	2778	A
31	DA	2779	U
31	DA	2781	A
31	DA	2789	C
31	DA	2790	A
31	DA	2791	C
31	DA	2792	G
31	DA	2793	G
31	DA	2794	C
31	DA	2795	G
31	DA	2801(A)	A
31	DA	2802	G
31	DA	2803	C
31	DA	2804	C
31	DA	2808	U
31	DA	2818	G
31	DA	2820	A
31	DA	2821	A
31	DA	2824	C
31	DA	2827	C
31	DA	2833	G
31	DA	2834	G
31	DA	2835	A
31	DA	2846	G
31	DA	2850	A
31	DA	2851	A
31	DA	2859	G
31	DA	2860	A
31	DA	2863	C
31	DA	2872	G
31	DA	2880	C
31	DA	2889	C
31	DA	2892	A
31	DA	2894	G
31	DA	2895	U
31	DA	2897	U
32	DB	8	U
32	DB	9	G
32	DB	12	C
32	DB	13	A
32	DB	15	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
32	DB	16	G
32	DB	22	U
32	DB	24	G
32	DB	27	C
32	DB	28	C
32	DB	29	A
32	DB	40	U
32	DB	42	C
32	DB	43	C
32	DB	45	A
32	DB	51	G
32	DB	52	A
32	DB	53	A
32	DB	54	G
32	DB	73	A
32	DB	75	G
32	DB	76	G
32	DB	80	U
32	DB	85	G
32	DB	87	G
32	DB	88	C
32	DB	89	G
32	DB	90	A
32	DB	91	C
32	DB	106	G
32	DB	108	U
32	DB	109	C
32	DB	110	G
32	DB	116	G
32	DB	117	G

All (203) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	30	U
1	AA	60	A
1	AA	79	G
1	AA	115	G
1	AA	119	A
1	AA	243	A
1	AA	250	A
1	AA	266	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	327	A
1	AA	366	C
1	AA	428	G
1	AA	429	U
1	AA	484	G
1	AA	509	A
1	AA	533	A
1	AA	560	U
1	AA	687	A
1	AA	748	C
1	AA	793	U
1	AA	913	A
1	AA	991	U
1	AA	992	U
1	AA	1064	G
1	AA	1065	U
1	AA	1067	A
1	AA	1201	A
1	AA	1285	A
1	AA	1452	C
1	AA	1493	A
1	AA	1498	U
1	AA	1504	G
31	BA	34	C
31	BA	49	A
31	BA	50	U
31	BA	71	A
31	BA	102	G
31	BA	128	C
31	BA	146	G
31	BA	249	C
31	BA	272	G
31	BA	272(J)	C
31	BA	472	A
31	BA	474	G
31	BA	542	C
31	BA	587	C
31	BA	651	G
31	BA	669	G
31	BA	685	A
31	BA	746	A
31	BA	752	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	774	A
31	BA	790	C
31	BA	827	U
31	BA	856	C
31	BA	859	G
31	BA	945	A
31	BA	958	U
31	BA	1022	G
31	BA	1112	G
31	BA	1142(A)	A
31	BA	1155	A
31	BA	1176	G
31	BA	1210	A
31	BA	1250	G
31	BA	1300	U
31	BA	1332	G
31	BA	1378	A
31	BA	1379	A
31	BA	1397	U
31	BA	1427	A
31	BA	1494	A
31	BA	1508	A
31	BA	1533	G
31	BA	1544	A
31	BA	1558	A
31	BA	1559	G
31	BA	1608	A
31	BA	1652	A
31	BA	1653	G
31	BA	1694	C
31	BA	1697	G
31	BA	1740	G
31	BA	1799	G
31	BA	1819	A
31	BA	1934	C
31	BA	1970	A
31	BA	1992	G
31	BA	2225	A
31	BA	2272	U
31	BA	2319	G
31	BA	2405	G
31	BA	2439	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BA	2610	C
31	BA	2662	A
31	BA	2689	U
31	BA	2712	U
31	BA	2726	U
31	BA	2778	A
31	BA	2791	C
31	BA	2796	U
31	BA	2859	G
32	BB	44	G
1	CA	30	U
1	CA	60	A
1	CA	79	G
1	CA	115	G
1	CA	119	A
1	CA	243	A
1	CA	250	A
1	CA	266	G
1	CA	327	A
1	CA	366	C
1	CA	428	G
1	CA	429	U
1	CA	484	G
1	CA	509	A
1	CA	533	A
1	CA	560	U
1	CA	687	A
1	CA	748	C
1	CA	793	U
1	CA	913	A
1	CA	991	U
1	CA	992	U
1	CA	1064	G
1	CA	1065	U
1	CA	1067	A
1	CA	1201	A
1	CA	1285	A
1	CA	1452	C
1	CA	1493	A
1	CA	1498	U
1	CA	1504	G
31	DA	34	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	49	A
31	DA	50	U
31	DA	71	A
31	DA	102	G
31	DA	128	C
31	DA	146	G
31	DA	249	C
31	DA	272	G
31	DA	272(J)	C
31	DA	472	A
31	DA	474	G
31	DA	542	C
31	DA	587	C
31	DA	651	G
31	DA	669	G
31	DA	685	A
31	DA	746	A
31	DA	752	A
31	DA	774	A
31	DA	790	C
31	DA	827	U
31	DA	856	C
31	DA	859	G
31	DA	945	A
31	DA	958	U
31	DA	960	A
31	DA	1022	G
31	DA	1112	G
31	DA	1142(A)	A
31	DA	1155	A
31	DA	1176	G
31	DA	1210	A
31	DA	1250	G
31	DA	1300	U
31	DA	1332	G
31	DA	1378	A
31	DA	1379	A
31	DA	1397	U
31	DA	1427	A
31	DA	1494	A
31	DA	1508	A
31	DA	1533	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DA	1544	A
31	DA	1558	A
31	DA	1559	G
31	DA	1608	A
31	DA	1652	A
31	DA	1653	G
31	DA	1694	C
31	DA	1697	G
31	DA	1740	G
31	DA	1799	G
31	DA	1819	A
31	DA	1934	C
31	DA	1970	A
31	DA	1992	G
31	DA	2225	A
31	DA	2405	G
31	DA	2439	A
31	DA	2610	C
31	DA	2662	A
31	DA	2689	U
31	DA	2712	U
31	DA	2726	U
31	DA	2778	A
31	DA	2791	C
31	DA	2796	U
31	DA	2859	G
32	DB	44	G

5.4 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 853 ligands modelled in this entry, 851 are monoatomic - leaving 2 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
55	CLM	BA	3370	54	20,20,20	1.28	1 (5%)	23,27,27	0.91	0
55	CLM	DA	3334	54	20,20,20	1.29	1 (5%)	23,27,27	0.91	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
55	CLM	BA	3370	54	-	0/20/22/22	0/1/1/1
55	CLM	DA	3334	54	-	0/20/22/22	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	DA	3334	CLM	C9-N9	-4.35	1.34	1.45
55	BA	3370	CLM	C9-N9	-4.33	1.34	1.45

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

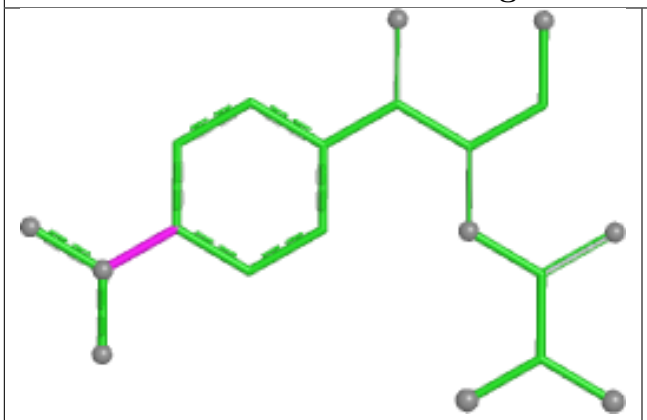
There are no ring outliers.

No monomer is involved in short contacts.

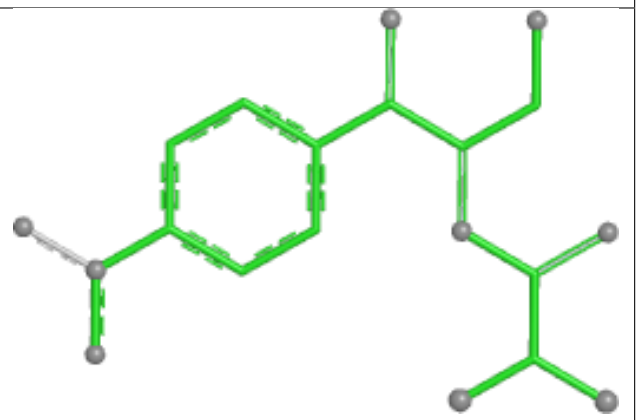
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and

any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

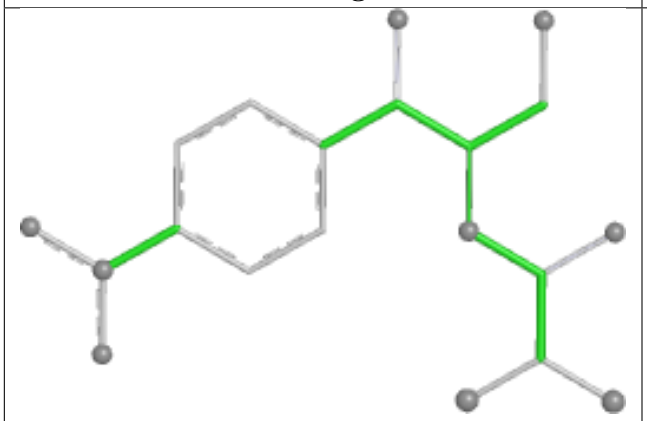
Ligand CLM BA 3370



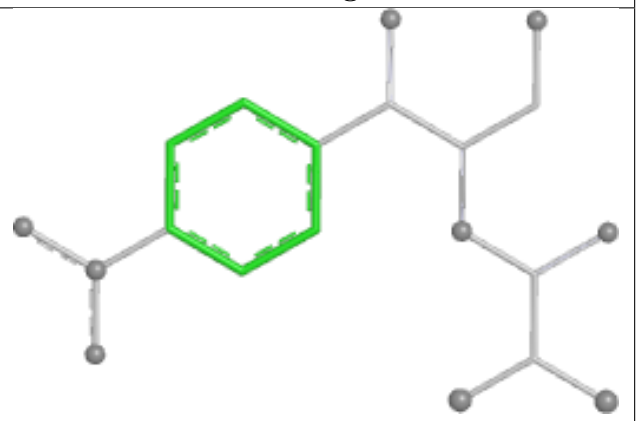
Bond lengths



Bond angles

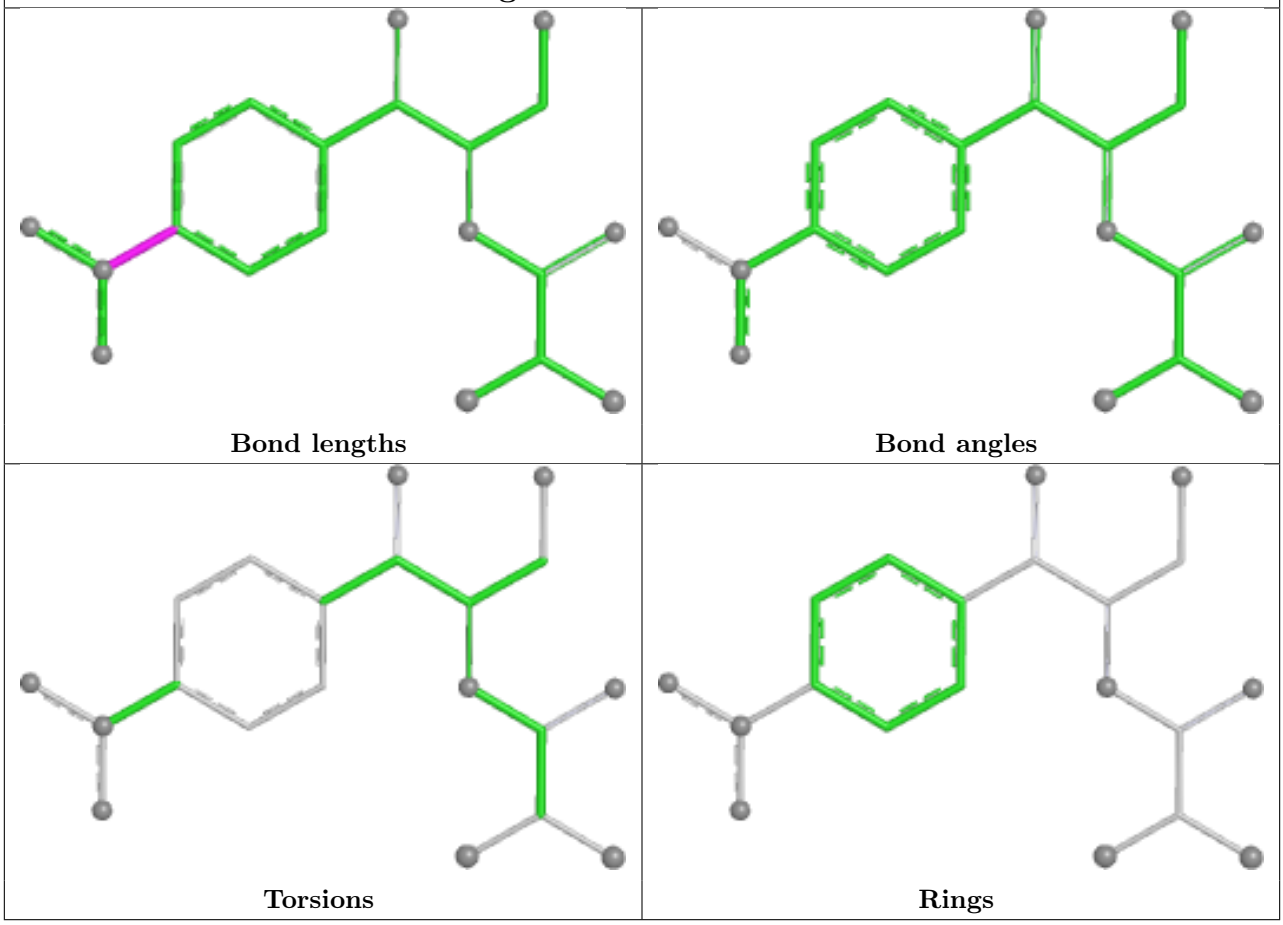


Torsions



Rings

Ligand CLM DA 3334



5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
13	CM	3
13	AM	3
36	BG	1
36	DG	1
28	B6	1
28	D6	1
9	AI	1
47	BV	1
9	CI	1

Continued on next page...

Continued from previous page...

Mol	Chain	Number of breaks
47	DV	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	CM	69:GLU	C	70:LEU	N	5.35
1	AM	69:GLU	C	70:LEU	N	5.34
1	BG	112:PRO	C	113:ARG	N	4.53
1	DG	112:PRO	C	113:ARG	N	4.53
1	CM	112:GLY	C	113:PRO	N	4.49
1	AM	112:GLY	C	113:PRO	N	4.47
1	AM	97:PRO	C	98:VAL	N	4.46
1	CM	97:PRO	C	98:VAL	N	4.46
1	B6	46:HIS	C	47:THR	N	3.72
1	D6	46:HIS	C	47:THR	N	3.68
1	AI	53:VAL	C	54:ASP	N	3.17
1	BV	80:GLN	C	81:TYR	N	3.15
1	CI	53:VAL	C	54:ASP	N	3.14
1	DV	80:GLN	C	81:TYR	N	3.07

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, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å^2)	Q<0.9
1	AA	1504/1522 (98%)	1.07	272 (18%)	3 2	42, 106, 199, 201	0
1	CA	1504/1522 (98%)	0.98	196 (13%)	7 4	46, 105, 198, 201	0
2	AB	235/256 (91%)	1.68	80 (34%)	1 1	83, 146, 188, 195	0
2	CB	235/256 (91%)	1.32	49 (20%)	2 2	84, 149, 187, 196	0
3	AC	207/239 (86%)	1.41	44 (21%)	2 1	97, 158, 187, 194	0
3	CC	207/239 (86%)	1.27	38 (18%)	3 2	98, 160, 187, 194	0
4	AD	208/209 (99%)	1.37	52 (25%)	2 1	72, 112, 165, 186	0
4	CD	208/209 (99%)	1.37	50 (24%)	2 1	70, 111, 164, 185	0
5	AE	151/162 (93%)	0.80	14 (9%)	14 7	59, 97, 151, 194	0
5	CE	151/162 (93%)	0.97	17 (11%)	10 6	64, 98, 153, 194	0
6	AF	101/101 (100%)	1.14	14 (13%)	6 4	66, 111, 160, 183	0
6	CF	101/101 (100%)	1.18	15 (14%)	5 3	67, 113, 160, 188	0
7	AG	155/156 (99%)	1.62	48 (30%)	1 1	124, 172, 192, 197	0
7	CG	155/156 (99%)	1.43	38 (24%)	2 1	125, 172, 192, 198	0
8	AH	138/138 (100%)	0.92	15 (10%)	10 6	67, 102, 147, 162	0
8	CH	138/138 (100%)	1.02	16 (11%)	9 5	66, 102, 147, 163	0
9	AI	127/128 (99%)	2.08	64 (50%)	0 0	125, 179, 196, 199	0
9	CI	127/128 (99%)	1.91	48 (37%)	1 1	126, 180, 197, 199	0
10	AJ	99/105 (94%)	2.22	48 (48%)	0 0	122, 175, 196, 198	0
10	CJ	99/105 (94%)	1.96	39 (39%)	1 1	121, 176, 197, 199	0
11	AK	119/129 (92%)	1.12	20 (16%)	4 3	63, 105, 164, 188	0
11	CK	119/129 (92%)	1.34	22 (18%)	3 2	65, 104, 168, 191	0
12	AL	125/135 (92%)	1.27	30 (24%)	2 1	57, 89, 154, 198	0
12	CL	125/135 (92%)	1.41	34 (27%)	1 1	55, 89, 158, 198	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
13	AM	115/126 (91%)	2.26	59 (51%)	0	0	136, 190, 198, 200	0
13	CM	115/126 (91%)	1.97	48 (41%)	0	1	136, 188, 197, 199	0
14	AN	60/61 (98%)	1.72	21 (35%)	1	1	113, 167, 193, 196	0
14	CN	60/61 (98%)	2.04	28 (46%)	0	0	112, 168, 191, 196	0
15	AO	88/89 (98%)	1.17	15 (17%)	4	3	59, 91, 149, 155	0
15	CO	88/89 (98%)	0.81	11 (12%)	8	5	63, 92, 150, 157	0
16	AP	84/88 (95%)	1.44	20 (23%)	2	1	77, 101, 161, 188	0
16	CP	84/88 (95%)	1.49	19 (22%)	2	1	78, 100, 154, 186	0
17	AQ	100/105 (95%)	1.13	18 (18%)	3	2	62, 93, 138, 158	0
17	CQ	100/105 (95%)	0.95	13 (13%)	7	4	59, 92, 140, 157	0
18	AR	70/88 (79%)	1.09	10 (14%)	6	3	73, 98, 167, 197	0
18	CR	70/88 (79%)	1.01	9 (12%)	7	5	74, 100, 167, 196	0
19	AS	79/93 (84%)	1.99	30 (37%)	1	1	142, 191, 198, 199	0
19	CS	79/93 (84%)	1.69	24 (30%)	1	1	142, 190, 198, 199	0
20	AT	99/106 (93%)	1.53	28 (28%)	1	1	73, 110, 157, 186	0
20	CT	99/106 (93%)	1.41	26 (26%)	1	1	74, 108, 156, 189	0
21	AU	25/27 (92%)	3.96	22 (88%)	0	0	138, 175, 193, 196	0
21	CU	25/27 (92%)	3.07	19 (76%)	0	0	135, 172, 193, 195	0
22	B0	85/85 (100%)	1.04	18 (21%)	2	1	34, 59, 182, 197	0
22	D0	85/85 (100%)	0.90	12 (14%)	6	4	40, 64, 178, 197	0
23	B1	89/98 (90%)	1.61	28 (31%)	1	1	37, 64, 140, 187	0
23	D1	89/98 (90%)	1.34	26 (29%)	1	1	40, 66, 142, 191	0
24	B2	51/72 (70%)	2.77	32 (62%)	0	0	49, 87, 184, 193	0
24	D2	51/72 (70%)	2.12	23 (45%)	0	0	50, 91, 183, 195	0
25	B3	60/60 (100%)	0.84	10 (16%)	4	3	36, 56, 132, 180	0
25	D3	60/60 (100%)	0.72	7 (11%)	9	5	42, 61, 138, 178	0
26	B4	32/71 (45%)	2.38	17 (53%)	0	0	109, 156, 186, 191	0
26	D4	32/71 (45%)	2.01	12 (37%)	1	1	112, 161, 188, 195	0
27	B5	59/60 (98%)	0.99	10 (16%)	4	3	25, 47, 180, 195	0
27	D5	59/60 (98%)	0.52	9 (15%)	5	3	28, 50, 184, 195	0
28	B6	45/54 (83%)	2.37	23 (51%)	0	0	36, 70, 133, 185	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	D6	45/54 (83%)	1.81	18 (40%) 1 1	42, 74, 138, 184	0
29	B7	49/49 (100%)	0.20	5 (10%) 12 6	26, 33, 117, 170	0
29	D7	49/49 (100%)	0.36	7 (14%) 6 3	27, 37, 118, 170	0
30	B8	64/65 (98%)	1.64	17 (26%) 1 1	34, 57, 138, 181	0
30	D8	64/65 (98%)	1.38	18 (28%) 1 1	38, 59, 139, 183	0
31	BA	2725/2787 (97%)	0.02	160 (5%) 28 14	26, 46, 145, 201	0
31	DA	2725/2787 (97%)	-0.00	122 (4%) 38 20	27, 51, 148, 201	0
32	BB	119/122 (97%)	1.47	39 (32%) 1 1	39, 91, 140, 185	0
32	DB	119/122 (97%)	1.57	43 (36%) 1 1	48, 95, 154, 190	0
33	BD	272/276 (98%)	0.31	19 (6%) 22 12	27, 47, 100, 177	0
33	DD	272/276 (98%)	0.33	17 (6%) 26 13	29, 50, 104, 181	0
34	BE	205/206 (99%)	0.64	27 (13%) 7 4	25, 52, 145, 189	0
34	DE	205/206 (99%)	0.62	22 (10%) 11 6	29, 56, 142, 189	0
35	BF	208/210 (99%)	0.64	26 (12%) 8 5	24, 58, 180, 197	0
35	DF	208/210 (99%)	0.55	16 (7%) 19 10	27, 63, 178, 197	0
36	BG	181/182 (99%)	1.95	69 (38%) 1 1	87, 144, 189, 199	0
36	DG	181/182 (99%)	1.94	67 (37%) 1 1	91, 153, 193, 199	0
37	BH	160/180 (88%)	2.37	78 (48%) 0 0	62, 102, 150, 193	0
37	DH	160/180 (88%)	1.39	40 (25%) 2 1	70, 110, 157, 195	0
38	BI	146/148 (98%)	2.04	66 (45%) 0 0	52, 143, 185, 195	0
38	DI	146/148 (98%)	2.79	82 (56%) 0 0	56, 156, 188, 198	0
39	BN	139/140 (99%)	1.28	36 (25%) 1 1	32, 60, 140, 187	0
39	DN	139/140 (99%)	0.72	17 (12%) 8 5	38, 65, 142, 188	0
40	BO	122/122 (100%)	0.15	3 (2%) 58 35	32, 52, 105, 141	0
40	DO	122/122 (100%)	0.18	4 (3%) 49 28	35, 55, 111, 146	0
41	BP	146/150 (97%)	1.66	50 (34%) 1 1	22, 79, 148, 199	0
41	DP	146/150 (97%)	1.29	30 (20%) 2 2	27, 81, 150, 198	0
42	BQ	136/141 (96%)	1.25	29 (21%) 2 1	39, 64, 150, 189	0
42	DQ	136/141 (96%)	1.06	20 (14%) 6 3	43, 69, 149, 190	0
43	BR	117/118 (99%)	0.40	14 (11%) 9 5	28, 44, 113, 143	0
43	DR	117/118 (99%)	0.35	13 (11%) 10 6	30, 49, 115, 144	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	BS	99/112 (88%)	1.99	43 (43%) 0 1	53, 98, 141, 178	0
44	DS	99/112 (88%)	1.90	39 (39%) 1 1	63, 103, 146, 180	0
45	BT	132/146 (90%)	1.38	34 (25%) 1 1	42, 73, 157, 191	0
45	DT	132/146 (90%)	1.09	29 (21%) 2 1	46, 77, 159, 194	0
46	BU	117/118 (99%)	0.88	23 (19%) 3 2	23, 50, 114, 190	0
46	DU	117/118 (99%)	0.69	17 (14%) 6 3	32, 56, 119, 193	0
47	BV	101/101 (100%)	2.41	53 (52%) 0 0	32, 91, 171, 194	0
47	DV	101/101 (100%)	1.42	22 (21%) 2 1	35, 97, 169, 195	0
48	BW	113/113 (100%)	0.09	4 (3%) 47 27	28, 40, 101, 168	0
48	DW	113/113 (100%)	0.01	2 (1%) 67 44	31, 43, 106, 175	0
49	BX	93/96 (96%)	1.52	29 (31%) 1 1	36, 65, 142, 184	0
49	DX	93/96 (96%)	1.16	18 (19%) 3 2	42, 69, 147, 185	0
50	BY	101/110 (91%)	2.57	53 (52%) 0 0	39, 91, 191, 199	0
50	DY	101/110 (91%)	2.03	42 (41%) 0 1	40, 96, 191, 198	0
51	BZ	177/206 (85%)	1.62	57 (32%) 1 1	56, 100, 150, 175	0
51	DZ	177/206 (85%)	1.20	33 (18%) 3 2	63, 103, 153, 179	0
All	All	20064/20922 (95%)	0.90	3582 (17%) 3 2	22, 84, 190, 201	0

All (3582) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
42	BQ	140	ALA	19.8
39	BN	68	GLU	16.5
38	DI	100	ALA	15.8
42	BQ	141	GLN	14.4
38	DI	97	ILE	13.1
50	BY	102	CYS	12.9
27	B5	2	ALA	12.2
38	DI	81	VAL	11.8
42	BQ	24	GLY	11.3
42	DQ	24	GLY	11.2
45	BT	39	ARG	10.5
42	DQ	140	ALA	10.5
31	BA	652	C	10.5
28	B6	42	TRP	10.3
47	BV	45	THR	10.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
42	BQ	139	GLU	9.8
50	BY	49	VAL	9.6
1	AA	88	A	9.6
30	B8	65	GLU	9.4
36	BG	88	ILE	9.2
50	BY	28	LYS	9.2
31	BA	897	C	9.1
37	BH	46	GLU	9.0
1	CA	84	U	8.9
42	DQ	141	GLN	8.9
38	BI	90	GLY	8.9
30	B8	34	TRP	8.8
13	AM	102	ARG	8.8
31	BA	1533	G	8.7
14	CN	35	ARG	8.7
38	DI	90	GLY	8.6
24	B2	54	LYS	8.5
42	DQ	139	GLU	8.5
31	DA	1533	G	8.5
26	B4	3	GLU	8.4
9	AI	81	ILE	8.3
24	B2	42	GLY	8.2
32	BB	88	C	8.0
50	BY	43	ASN	8.0
30	B8	37	SER	8.0
50	DY	49	VAL	7.9
36	BG	152	LEU	7.9
31	DA	652	C	7.9
38	DI	68	LEU	7.8
10	AJ	59	SER	7.8
47	BV	46	VAL	7.8
38	DI	109	ILE	7.8
24	D2	42	GLY	7.6
31	BA	2189	U	7.6
37	BH	44	VAL	7.5
1	CA	83	U	7.5
7	AG	5	ARG	7.5
7	AG	99	LEU	7.5
50	BY	88	LYS	7.4
11	CK	89	ALA	7.4
49	BX	73	ARG	7.4
36	DG	35	GLU	7.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
49	BX	26	TYR	7.3
1	AA	89	C	7.3
33	BD	236	GLY	7.2
50	DY	28	LYS	7.2
28	D6	42	TRP	7.2
41	BP	107	LYS	7.2
21	CU	14	TRP	7.1
19	CS	76	PRO	7.1
37	BH	158	HIS	7.1
24	B2	49	LYS	7.1
51	DZ	113	ALA	7.0
37	BH	156	ALA	7.0
21	AU	17	THR	7.0
47	BV	53	GLU	7.0
36	BG	87	PRO	6.9
23	B1	93	GLU	6.9
10	CJ	59	SER	6.9
45	BT	92	GLY	6.9
9	AI	9	ARG	6.9
38	BI	121	LYS	6.8
31	DA	2802	G	6.8
38	DI	119	PRO	6.8
21	AU	18	TYR	6.8
12	AL	91	LYS	6.8
47	BV	47	VAL	6.8
38	DI	65	ALA	6.8
38	DI	121	LYS	6.8
47	BV	60	GLU	6.7
49	BX	34	ALA	6.7
38	BI	89	TYR	6.7
44	BS	54	LEU	6.7
38	DI	101	LEU	6.6
49	DX	34	ALA	6.6
31	DA	280	C	6.6
31	DA	279	C	6.6
50	DY	48	ALA	6.6
42	DQ	23	GLY	6.6
31	BA	2104	G	6.6
22	B0	41	ARG	6.6
13	AM	27	LYS	6.5
38	DI	91	SER	6.5
45	DT	115	ARG	6.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
31	BA	508	G	6.5
50	DY	60	PHE	6.5
31	BA	1544	A	6.5
24	B2	48	HIS	6.5
38	DI	107	VAL	6.4
21	CU	10	ARG	6.4
9	CI	127	LYS	6.3
45	BT	32	TYR	6.3
36	BG	96	ARG	6.3
50	BY	48	ALA	6.3
47	BV	70	ILE	6.3
13	AM	7	VAL	6.3
31	BA	2477	C	6.3
13	CM	62	ASN	6.3
50	DY	3	VAL	6.2
21	AU	14	TRP	6.2
2	AB	101	MET	6.2
36	DG	142	PRO	6.2
2	AB	12	GLU	6.2
39	BN	74	ARG	6.2
13	CM	63	THR	6.2
20	CT	86	ARG	6.2
22	B0	6	GLY	6.2
36	DG	152	LEU	6.2
38	DI	58	LEU	6.2
31	BA	2402	C	6.2
10	AJ	70	ARG	6.2
28	B6	23	THR	6.2
24	D2	51	ARG	6.1
24	B2	51	ARG	6.1
13	AM	101	GLN	6.1
1	CA	1036	G	6.1
50	DY	2	ARG	6.1
38	DI	80	PRO	6.1
12	CL	44	THR	6.1
31	BA	11	G	6.1
31	BA	2101	G	6.1
1	CA	344	A	6.0
7	CG	5	ARG	6.0
36	DG	28	VAL	6.0
45	BT	3	ARG	6.0
47	BV	75	PHE	6.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
9	CI	126	SER	6.0
1	CA	1235	U	6.0
1	CA	1442(A)	G	6.0
31	DA	275	G	6.0
37	BH	124	GLU	6.0
47	BV	81	TYR	6.0
44	BS	107	GLU	6.0
51	DZ	146	ILE	6.0
31	DA	2104	G	6.0
35	BF	207	GLY	6.0
42	BQ	80	GLU	6.0
3	AC	184	TYR	5.9
49	BX	69	TYR	5.9
1	AA	64	G	5.9
21	CU	6	ARG	5.9
34	BE	76	ARG	5.9
4	CD	122	ARG	5.9
41	BP	65	ARG	5.9
39	BN	8	GLN	5.9
27	B5	59	GLU	5.9
47	BV	55	ALA	5.9
13	AM	100	GLY	5.8
21	AU	13	ILE	5.8
30	D8	40	GLU	5.8
8	AH	116	LYS	5.8
31	BA	2106	G	5.8
9	AI	106	ALA	5.8
22	B0	2	ALA	5.8
41	BP	144	GLU	5.8
37	BH	123	PHE	5.8
32	BB	89	G	5.7
31	DA	2189	U	5.7
34	BE	61	ARG	5.7
4	CD	3	ARG	5.7
21	AU	10	ARG	5.7
22	B0	7	LEU	5.7
32	BB	87	G	5.7
42	DQ	100	GLY	5.7
49	BX	33	LYS	5.7
19	AS	56	GLN	5.7
39	BN	131	GLN	5.7
38	DI	72	LEU	5.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
41	DP	65	ARG	5.6
2	AB	133	LYS	5.6
29	D7	47	ARG	5.6
1	AA	1224	G	5.6
24	D2	54	LYS	5.6
22	B0	4	LYS	5.6
47	BV	68	LYS	5.6
45	BT	2	ASN	5.6
13	AM	2	ALA	5.6
39	BN	1	MET	5.6
37	BH	45	VAL	5.5
50	BY	59	GLY	5.5
41	BP	27	HIS	5.5
32	BB	90	A	5.5
36	DG	133	LEU	5.5
23	B1	78	LYS	5.5
29	D7	48	LYS	5.5
39	DN	109	LYS	5.5
30	D8	37	SER	5.5
24	B2	33	MET	5.5
47	DV	81	TYR	5.5
18	CR	68	LYS	5.5
36	DG	8	LYS	5.5
39	DN	68	GLU	5.5
24	D2	55	ARG	5.5
45	DT	3	ARG	5.5
1	CA	346	G	5.5
3	AC	10	PHE	5.5
28	B6	39	TYR	5.5
2	AB	144	ARG	5.4
17	CQ	101	ARG	5.4
24	D2	49	LYS	5.4
31	BA	2105	C	5.4
31	DA	2402	C	5.4
21	AU	3	LYS	5.4
20	AT	10	LEU	5.4
31	DA	362	U	5.4
33	BD	34	VAL	5.4
34	BE	59	VAL	5.4
30	B8	35	GLN	5.4
13	AM	97	PRO	5.4
36	BG	35	GLU	5.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
51	BZ	146	ILE	5.4
31	BA	656	G	5.4
31	BA	2802	G	5.4
1	AA	369	C	5.4
1	CA	1447	A	5.4
44	DS	33	LYS	5.4
33	DD	28	GLU	5.3
34	BE	17	ASP	5.3
7	CG	32	ARG	5.3
33	DD	236	GLY	5.3
13	CM	84	ILE	5.3
31	DA	274	G	5.3
1	AA	1286	A	5.3
36	DG	155	MET	5.3
30	B8	63	PRO	5.3
38	BI	70	GLU	5.3
22	D0	1	MET	5.3
4	CD	73	ARG	5.3
41	DP	110	TYR	5.3
1	AA	1503	A	5.3
31	BA	2662	A	5.3
1	AA	1025	U	5.3
47	DV	53	GLU	5.3
50	BY	33	LYS	5.3
38	DI	93	THR	5.3
31	BA	1049	C	5.3
13	CM	101	GLN	5.3
35	BF	24	LEU	5.2
49	DX	26	TYR	5.2
20	CT	73	HIS	5.2
4	AD	3	ARG	5.2
50	BY	44	ILE	5.2
1	CA	947	G	5.2
31	BA	2661	G	5.2
42	BQ	21	THR	5.2
30	B8	40	GLU	5.2
50	BY	92	ASN	5.2
38	DI	71	ILE	5.2
44	BS	12	PHE	5.2
13	CM	102	ARG	5.2
46	DU	59	ARG	5.2
31	DA	897	C	5.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
30	D8	34	TRP	5.2
30	B8	32	LEU	5.2
10	CJ	10	GLY	5.2
45	BT	113	LYS	5.2
1	CA	88	A	5.1
1	CA	345	C	5.1
41	DP	27	HIS	5.1
10	CJ	58	ASP	5.1
4	CD	151	LYS	5.1
16	AP	12	LYS	5.1
1	AA	1026	G	5.1
38	DI	105	HIS	5.1
50	BY	3	VAL	5.1
20	CT	75	ASN	5.1
25	B3	30	ARG	5.1
37	BH	85	LYS	5.1
8	CH	1	MET	5.1
34	DE	76	ARG	5.1
49	DX	73	ARG	5.1
50	BY	2	ARG	5.1
23	B1	15	ALA	5.1
50	DY	61	ILE	5.1
9	CI	3	GLN	5.1
16	CP	48	TRP	5.1
39	BN	73	THR	5.1
1	CA	1149	C	5.1
31	BA	1174	A	5.1
36	DG	88	ILE	5.0
42	BQ	91	GLU	5.0
1	AA	951	G	5.0
3	CC	165	THR	5.0
8	CH	99	GLU	5.0
11	AK	90	GLY	5.0
39	DN	74	ARG	5.0
2	AB	187	LEU	5.0
13	AM	4	ILE	5.0
47	DV	70	ILE	5.0
51	BZ	53	ILE	5.0
14	AN	2	ALA	5.0
39	BN	18	ALA	5.0
31	DA	1544	A	5.0
45	DT	11	GLU	5.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
38	DI	145	VAL	5.0
19	AS	59	PRO	5.0
36	BG	75	LYS	5.0
36	DG	41	GLN	5.0
10	AJ	10	GLY	5.0
2	AB	214	ILE	5.0
38	DI	111	PRO	5.0
29	B7	47	ARG	5.0
24	B2	34	GLU	5.0
10	AJ	71	LEU	5.0
31	BA	1532	C	4.9
2	CB	137	ARG	4.9
47	DV	60	GLU	4.9
27	D5	2	ALA	4.9
2	CB	163	PHE	4.9
4	AD	151	LYS	4.9
23	D1	40	ARG	4.9
45	DT	2	ASN	4.9
38	DI	79	ILE	4.9
50	DY	44	ILE	4.9
10	AJ	37	PRO	4.9
28	B6	21	TYR	4.9
11	AK	81	ASP	4.9
23	B1	95	LEU	4.9
23	D1	95	LEU	4.9
33	DD	33	LEU	4.9
45	BT	36	GLU	4.9
46	DU	22	LYS	4.9
1	AA	84	U	4.9
1	CA	82	U	4.9
41	BP	110	TYR	4.9
38	DI	144	VAL	4.9
16	CP	29	ASP	4.9
45	DT	92	GLY	4.9
50	BY	86	ARG	4.9
20	AT	12	ALA	4.9
1	CA	347	G	4.9
48	BW	63	ASP	4.9
38	DI	88	ILE	4.8
47	DV	68	LYS	4.8
31	DA	1048	A	4.8
10	AJ	58	ASP	4.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
20	AT	80	ARG	4.8
32	DB	88	C	4.8
35	BF	134	GLY	4.8
51	BZ	81	ARG	4.8
3	CC	196	LEU	4.8
11	CK	90	GLY	4.8
32	DB	90	A	4.8
38	BI	65	ALA	4.8
50	BY	60	PHE	4.8
38	BI	140	LEU	4.8
45	BT	93	ARG	4.8
38	BI	108	THR	4.8
24	D2	60	LEU	4.8
46	BU	58	ARG	4.8
1	AA	347	G	4.8
32	BB	54	G	4.8
8	AH	1	MET	4.8
49	DX	69	TYR	4.7
31	BA	1543	C	4.7
34	BE	63	LEU	4.7
12	CL	47	LYS	4.7
23	B1	33	LYS	4.7
3	AC	3	ASN	4.7
20	AT	9	ASN	4.7
3	AC	2	GLY	4.7
21	AU	24	ARG	4.7
38	DI	92	VAL	4.7
31	BA	363(F)	A	4.7
36	BG	86	MET	4.7
37	BH	12	PRO	4.7
20	CT	9	ASN	4.7
30	D8	50	LEU	4.7
38	DI	94	ALA	4.7
47	BV	62	LEU	4.7
19	AS	58	VAL	4.7
1	AA	1138	G	4.7
1	CA	79	G	4.7
31	DA	272(B)	G	4.7
32	DB	89	G	4.7
42	DQ	21	THR	4.7
36	DG	157	ILE	4.7
5	CE	85	GLY	4.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
44	DS	36	TYR	4.7
44	BS	16	ASN	4.7
15	AO	88	ARG	4.7
13	AM	58	GLU	4.7
22	B0	1	MET	4.7
38	DI	64	GLU	4.7
36	DG	29	TRP	4.7
50	DY	79	CYS	4.7
19	AS	49	ILE	4.7
42	BQ	135	ASP	4.7
29	D7	2	LYS	4.7
2	AB	146	GLN	4.6
21	AU	23	PRO	4.6
39	BN	129	PRO	4.6
9	AI	104	ARG	4.6
19	AS	71	LEU	4.6
21	AU	4	GLY	4.6
21	AU	16	GLY	4.6
30	B8	50	LEU	4.6
36	DG	96	ARG	4.6
44	BS	89	ARG	4.6
46	BU	97	ASP	4.6
3	CC	160	ALA	4.6
6	AF	90	VAL	4.6
8	AH	93	VAL	4.6
37	BH	43	VAL	4.6
1	AA	90	U	4.6
51	BZ	97	GLU	4.6
30	D8	39	LYS	4.6
49	DX	77	LYS	4.6
19	CS	10	PHE	4.6
42	BQ	137	TYR	4.6
42	DQ	80	GLU	4.6
1	CA	1286	A	4.6
7	CG	82	GLY	4.6
2	AB	188	ALA	4.6
31	DA	1049	C	4.6
35	BF	7	TYR	4.6
20	CT	74	LYS	4.6
16	AP	42	ARG	4.6
46	DU	58	ARG	4.6
1	AA	1281	U	4.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
3	AC	192	THR	4.6
13	CM	100	GLY	4.6
46	BU	118	GLY	4.6
3	AC	201	TYR	4.6
1	AA	1119	C	4.6
31	BA	2188	C	4.6
31	DA	11	G	4.6
31	DA	281	G	4.6
4	AD	37	PRO	4.6
44	BS	97	ARG	4.6
2	AB	213	LEU	4.6
3	AC	165	THR	4.6
37	BH	48	GLY	4.6
9	CI	106	ALA	4.6
30	B8	39	LYS	4.5
31	BA	1026	U	4.5
33	BD	38	LYS	4.5
1	CA	1492	A	4.5
31	BA	92	A	4.5
38	BI	139	GLN	4.5
1	CA	1129	C	4.5
13	CM	85	GLY	4.5
31	BA	1112	G	4.5
37	BH	138	LYS	4.5
30	D8	64	TYR	4.5
41	BP	90	ARG	4.5
9	CI	21	PRO	4.5
24	B2	60	LEU	4.5
50	BY	91	GLU	4.5
39	BN	109	LYS	4.5
46	BU	15	LYS	4.5
42	BQ	83	MET	4.5
30	B8	31	HIS	4.5
6	CF	90	VAL	4.5
9	AI	72	GLY	4.5
43	DR	9	LYS	4.5
49	BX	77	LYS	4.5
9	CI	107	ARG	4.5
37	BH	98	LEU	4.5
9	AI	12	GLU	4.5
38	DI	118	LYS	4.5
3	AC	183	ASP	4.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
9	AI	66	ARG	4.5
23	B1	50	ARG	4.5
24	B2	55	ARG	4.5
47	BV	86	GLY	4.5
1	CA	1086	U	4.5
10	CJ	67	THR	4.5
47	BV	96	ILE	4.5
36	BG	135	LEU	4.5
10	CJ	41	PRO	4.5
23	B1	19	GLN	4.5
1	AA	63	C	4.4
3	AC	158	GLY	4.4
16	AP	68	ASP	4.4
8	CH	2	LEU	4.4
31	BA	1110	G	4.4
31	DA	1114	G	4.4
35	BF	18	ARG	4.4
41	DP	33	ARG	4.4
42	BQ	23	GLY	4.4
44	DS	55	ALA	4.4
38	BI	71	ILE	4.4
26	D4	20	ASN	4.4
30	B8	64	TYR	4.4
13	CM	7	VAL	4.4
31	DA	90	U	4.4
37	BH	53	GLU	4.4
38	DI	96	ASP	4.4
29	B7	2	LYS	4.4
33	DD	44	ASN	4.4
28	D6	39	TYR	4.4
36	BG	72	ARG	4.4
13	AM	113	PRO	4.4
1	AA	1280	A	4.4
7	CG	2	ALA	4.4
21	CU	11	GLY	4.4
36	BG	129	GLY	4.4
1	AA	1000	U	4.4
10	AJ	50	ILE	4.4
38	BI	67	ARG	4.4
1	CA	158	G	4.4
31	BA	1740	G	4.4
31	DA	2101	G	4.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
23	D1	15	ALA	4.4
30	B8	28	GLY	4.4
10	AJ	16	LEU	4.4
26	B4	2	LYS	4.4
39	DN	131	GLN	4.4
46	BU	19	LYS	4.4
37	BH	49	VAL	4.4
10	AJ	20	ALA	4.3
13	AM	8	GLU	4.3
5	CE	53	LEU	4.3
32	BB	119	G	4.3
34	DE	63	LEU	4.3
49	DX	33	LYS	4.3
23	D1	19	GLN	4.3
30	D8	46	ARG	4.3
41	DP	7	ARG	4.3
31	BA	1531	C	4.3
38	BI	93	THR	4.3
38	DI	108	THR	4.3
50	DY	92	ASN	4.3
47	BV	28	GLU	4.3
24	B2	59	ARG	4.3
44	BS	15	ARG	4.3
43	BR	3	HIS	4.3
44	DS	98	VAL	4.3
3	CC	192	THR	4.3
49	BX	35	THR	4.3
41	DP	107	LYS	4.3
50	DY	102	CYS	4.3
31	DA	363(F)	A	4.3
38	BI	77	LEU	4.3
1	CA	1150	U	4.3
21	AU	6	ARG	4.3
33	DD	262	ARG	4.3
4	AD	135	LEU	4.3
36	BG	43	LEU	4.3
37	BH	137	ASP	4.3
37	BH	157	TYR	4.3
44	DS	48	LEU	4.3
17	AQ	99	SER	4.3
38	BI	120	ILE	4.3
31	BA	272(B)	G	4.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
35	BF	56	GLU	4.3
32	BB	5	C	4.3
32	DB	62	C	4.3
26	B4	21	VAL	4.3
37	BH	153	LYS	4.3
8	AH	2	LEU	4.3
35	BF	208	GLY	4.3
38	DI	104	GLN	4.3
9	CI	109	VAL	4.3
44	BS	33	LYS	4.2
24	D2	35	LEU	4.2
36	DG	172	LEU	4.2
41	BP	79	ARG	4.2
13	AM	105	THR	4.2
23	B1	77	ALA	4.2
24	B2	50	ILE	4.2
2	AB	137	ARG	4.2
4	CD	157	LEU	4.2
24	B2	61	LEU	4.2
49	BX	91	ALA	4.2
1	AA	345	C	4.2
1	AA	346	G	4.2
31	DA	1115	G	4.2
32	DB	54	G	4.2
38	BI	72	LEU	4.2
38	DI	75	LEU	4.2
51	DZ	98	MET	4.2
11	AK	19	ALA	4.2
47	BV	50	PRO	4.2
19	CS	80	TYR	4.2
31	BA	1175	U	4.2
43	DR	115	GLU	4.2
26	B4	20	ASN	4.2
43	BR	8	ARG	4.2
46	BU	52	ARG	4.2
1	AA	1129	C	4.2
11	AK	98	LEU	4.2
37	BH	41	MET	4.2
31	DA	1051	G	4.2
13	AM	63	THR	4.2
50	DY	88	LYS	4.2
24	D2	26	ARG	4.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
41	BP	15	ARG	4.2
42	BQ	6	ARG	4.2
45	BT	112	ARG	4.2
12	CL	27	LEU	4.2
33	BD	33	LEU	4.2
1	AA	950	U	4.2
9	CI	105	ASP	4.2
31	BA	362	U	4.2
46	BU	117	GLN	4.2
1	AA	1447	A	4.2
1	AA	1140	C	4.2
12	CL	18	VAL	4.1
45	BT	118	ARG	4.2
5	CE	20	GLN	4.1
38	DI	143	SER	4.1
12	CL	99	HIS	4.1
31	DA	1026	U	4.1
36	BG	136	ARG	4.1
21	AU	21	TYR	4.1
45	DT	32	TYR	4.1
31	DA	1531	C	4.1
43	DR	10	LEU	4.1
4	AD	179	GLU	4.1
41	DP	144	GLU	4.1
33	BD	44	ASN	4.1
34	BE	204	ALA	4.1
47	BV	87	HIS	4.1
21	CU	4	GLY	4.1
39	BN	115	ARG	4.1
51	DZ	81	ARG	4.1
13	CM	60	VAL	4.1
28	D6	23	THR	4.1
25	B3	60	GLU	4.1
41	BP	17	LYS	4.1
31	BA	1109	C	4.1
14	CN	12	ARG	4.1
44	DS	97	ARG	4.1
51	BZ	87	ASP	4.1
47	BV	38	LEU	4.1
50	DY	98	VAL	4.1
6	AF	67	MET	4.1
14	CN	34	TYR	4.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
12	CL	16	GLU	4.1
38	BI	138	ILE	4.1
38	DI	138	ILE	4.1
13	CM	5	ALA	4.1
10	AJ	41	PRO	4.1
5	AE	85	GLY	4.1
10	AJ	69	ASN	4.1
31	BA	1494	A	4.1
13	AM	16	ASP	4.1
13	CM	112	GLY	4.1
34	BE	66	HIS	4.1
44	DS	54	LEU	4.1
50	BY	24	VAL	4.1
28	D6	43	CYS	4.1
47	BV	76	LYS	4.1
24	B2	12	GLU	4.1
30	D8	48	PHE	4.1
31	BA	651	G	4.1
39	BN	132	ALA	4.1
36	DG	33	ARG	4.1
41	BP	41	ARG	4.1
35	DF	11	VAL	4.0
36	BG	108	ASN	4.0
42	BQ	90	VAL	4.0
43	BR	11	ASN	4.0
38	DI	102	SER	4.0
1	AA	532	A	4.0
3	AC	193	TYR	4.0
31	BA	34	C	4.0
38	DI	98	ALA	4.0
45	DT	118	ARG	4.0
7	AG	103	TRP	4.0
37	BH	64	LEU	4.0
1	AA	1139	G	4.0
46	DU	54	LYS	4.0
19	AS	4	SER	4.0
46	DU	56	ASP	4.0
2	AB	96	ARG	4.0
1	CA	1236	A	4.0
31	BA	2311	A	4.0
31	BA	543	C	4.0
2	AB	98	LEU	4.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
9	AI	123	PRO	4.0
13	CM	113	PRO	4.0
17	CQ	98	LEU	4.0
19	CS	71	LEU	4.0
3	CC	158	GLY	4.0
22	D0	6	GLY	4.0
20	AT	73	HIS	4.0
39	BN	130	HIS	4.0
47	DV	87	HIS	4.0
49	BX	72	LYS	4.0
10	CJ	50	ILE	4.0
17	AQ	97	SER	4.0
36	BG	33	ARG	4.0
16	AP	44	THR	4.0
34	DE	204	ALA	4.0
31	BA	275	G	4.0
31	BA	352	G	4.0
41	DP	70	GLN	4.0
22	B0	3	HIS	4.0
24	D2	48	HIS	4.0
31	BA	1048	A	4.0
32	DB	27	C	4.0
21	AU	15	ARG	4.0
37	BH	59	ARG	4.0
2	AB	201	ILE	4.0
10	AJ	38	ILE	4.0
1	CA	90	U	4.0
31	BA	2102	U	4.0
7	AG	101	LEU	4.0
29	B7	48	LYS	4.0
50	BY	47	LYS	4.0
10	AJ	52	GLY	4.0
38	BI	1	MET	4.0
1	AA	105	G	4.0
36	DG	16	ARG	4.0
30	B8	48	PHE	4.0
38	DI	76	THR	4.0
3	AC	4	LYS	4.0
17	CQ	24	GLU	4.0
22	B0	5	LYS	4.0
36	BG	28	VAL	3.9
44	BS	98	VAL	3.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
47	BV	16	PRO	3.9
1	AA	1364	U	3.9
20	CT	101	GLY	3.9
43	DR	91	GLN	3.9
23	D1	50	ARG	3.9
39	BN	134	ARG	3.9
41	DP	79	ARG	3.9
19	AS	40	ILE	3.9
18	AR	31	LEU	3.9
36	BG	34	LEU	3.9
39	DN	73	THR	3.9
51	BZ	125	LEU	3.9
50	BY	17	SER	3.9
23	D1	14	VAL	3.9
44	BS	14	VAL	3.9
1	CA	1223	C	3.9
3	CC	159	GLY	3.9
10	CJ	45	ARG	3.9
13	AM	99	ARG	3.9
31	DA	1052	C	3.9
41	BP	33	ARG	3.9
28	B6	43	CYS	3.9
51	DZ	164	ALA	3.9
9	AI	96	LEU	3.9
37	BH	103	LEU	3.9
30	D8	54	GLU	3.9
45	BT	104	ASN	3.9
16	AP	29	ASP	3.9
23	B1	26	ARG	3.9
50	DY	77	PRO	3.9
23	B1	18	ILE	3.9
3	AC	87	LEU	3.9
37	BH	67	LEU	3.9
20	AT	25	ARG	3.9
45	BT	34	VAL	3.9
35	DF	133	ASN	3.9
3	AC	159	GLY	3.9
12	AL	29	GLY	3.9
43	BR	91	GLN	3.9
28	B6	22	ALA	3.9
1	CA	1280	A	3.9
41	BP	7	ARG	3.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	AA	1243	C	3.9
32	DB	24	G	3.9
47	DV	5	VAL	3.9
26	D4	27	THR	3.9
3	CC	155	GLY	3.9
21	CU	5	ASP	3.9
38	BI	118	LYS	3.9
37	BH	61	HIS	3.9
3	CC	167	TRP	3.9
36	BG	29	TRP	3.9
10	CJ	70	ARG	3.8
46	BU	59	ARG	3.8
28	B6	12	GLU	3.8
38	DI	89	TYR	3.8
45	BT	11	GLU	3.8
45	DT	27	THR	3.8
7	AG	35	LYS	3.8
16	AP	14	ASN	3.8
38	BI	88	ILE	3.8
45	DT	113	LYS	3.8
46	BU	75	ASN	3.8
31	BA	271(O)	C	3.8
1	AA	1331	G	3.8
1	CA	1364	U	3.8
10	AJ	21	GLN	3.8
32	BB	23	G	3.8
32	DB	87	G	3.8
50	BY	57	GLN	3.8
5	AE	53	LEU	3.8
7	AG	100	ALA	3.8
34	DE	187	ALA	3.8
13	AM	45	VAL	3.8
37	BH	62	LYS	3.8
47	DV	76	LYS	3.8
50	BY	62	GLU	3.8
51	BZ	145	GLU	3.8
3	CC	124	ILE	3.8
24	D2	41	ILE	3.8
1	AA	949	A	3.8
10	AJ	19	SER	3.8
3	CC	195	VAL	3.8
21	CU	3	LYS	3.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
37	BH	47	GLU	3.8
11	CK	28	THR	3.8
13	AM	62	ASN	3.8
9	AI	13	ALA	3.8
12	CL	43	VAL	3.8
10	AJ	7	LYS	3.8
13	AM	10	PRO	3.8
23	D1	79	GLY	3.8
36	BG	137	GLU	3.8
21	CU	15	ARG	3.8
38	DI	82	ARG	3.8
1	CA	199	G	3.8
31	DA	656	G	3.8
7	AG	134	ALA	3.8
11	CK	128	ALA	3.8
26	D4	12	ALA	3.8
10	CJ	68	HIS	3.8
49	BX	59	VAL	3.8
50	BY	27	VAL	3.8
46	BU	91	ASP	3.8
4	CD	156	GLU	3.8
7	AG	102	ARG	3.8
36	DG	137	GLU	3.8
45	BT	25	GLY	3.8
46	BU	64	ARG	3.8
10	CJ	47	PHE	3.8
12	AL	32	PHE	3.8
49	DX	27	THR	3.8
44	DS	100	ALA	3.7
23	D1	78	LYS	3.7
44	BS	99	LYS	3.7
1	AA	1190	G	3.7
9	AI	105	ASP	3.7
24	D2	52	ASP	3.7
9	CI	66	ARG	3.7
13	CM	57	ARG	3.7
15	AO	64	ARG	3.7
35	BF	14	PRO	3.7
39	DN	75	TYR	3.7
27	B5	53	ALA	3.7
30	D8	29	LYS	3.7
50	BY	79	CYS	3.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	CB	81	VAL	3.7
1	CA	1503	A	3.7
32	DB	59	A	3.7
31	DA	34	C	3.7
3	AC	8	ILE	3.7
3	CC	152	ILE	3.7
42	BQ	10	ARG	3.7
7	CG	99	LEU	3.7
42	BQ	19	GLY	3.7
45	BT	6	LEU	3.7
49	BX	92	LEU	3.7
34	BE	73	GLU	3.7
3	CC	4	LYS	3.7
1	CA	428	G	3.7
1	CA	1033	G	3.7
9	AI	103	THR	3.7
50	BY	63	LYS	3.7
4	AD	32	ALA	3.7
23	B1	64	ALA	3.7
31	BA	2893	G	3.7
31	DA	651	G	3.7
47	BV	51	VAL	3.7
24	D2	43	GLN	3.7
10	CJ	56	HIS	3.7
50	DY	6	HIS	3.7
28	B6	37	ARG	3.7
42	DQ	16	ARG	3.7
44	DS	16	ASN	3.7
46	DU	52	ARG	3.7
47	BV	88	ARG	3.7
31	BA	90	U	3.7
23	B1	82	LEU	3.7
31	BA	2062	A	3.7
7	CG	33	ASP	3.7
20	AT	103	GLY	3.7
1	AA	1149	C	3.7
35	BF	25	PRO	3.7
47	BV	43	GLU	3.7
38	BI	76	THR	3.7
49	BX	27	THR	3.7
50	BY	42	VAL	3.7
45	DT	93	ARG	3.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	AA	79	G	3.7
9	CI	102	LEU	3.7
20	CT	99	LEU	3.7
31	BA	2100	G	3.7
36	BG	82	LEU	3.7
36	DG	108	ASN	3.7
38	BI	74	ASN	3.7
2	CB	70	PHE	3.7
23	B1	10	LYS	3.7
23	D1	10	LYS	3.7
10	AJ	35	SER	3.7
46	DU	97	ASP	3.7
12	CL	51	ALA	3.7
23	D1	77	ALA	3.7
10	AJ	5	ARG	3.7
7	AG	120	ILE	3.7
19	AS	31	ILE	3.7
43	BR	10	LEU	3.7
50	BY	4	LYS	3.7
19	CS	68	GLY	3.7
37	DH	123	PHE	3.7
47	DV	75	PHE	3.7
4	CD	7	PRO	3.6
7	CG	112	PRO	3.6
2	AB	71	VAL	3.6
4	CD	195	ALA	3.6
9	CI	14	VAL	3.6
23	B1	14	VAL	3.6
31	BA	1107	G	3.6
31	BA	2186	G	3.6
32	DB	119	G	3.6
1	CA	1065	U	3.6
3	AC	11	ARG	3.6
45	DT	112	ARG	3.6
15	AO	58	MET	3.6
45	DT	1	MET	3.6
1	CA	1531	A	3.6
36	BG	94	LEU	3.6
46	BU	60	LEU	3.6
19	AS	14	HIS	3.6
44	BS	93	LYS	3.6
50	DY	47	LYS	3.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
31	BA	1052	C	3.6
2	CB	97	TRP	3.6
36	DG	134	GLY	3.6
12	AL	94	PRO	3.6
37	BH	126	PRO	3.6
12	CL	73	GLU	3.6
2	AB	148	TYR	3.6
19	AS	51	VAL	3.6
19	CS	60	VAL	3.6
38	DI	136	VAL	3.6
41	BP	18	ARG	3.6
41	DP	25	SER	3.6
50	BY	64	GLU	3.6
51	BZ	82	ARG	3.6
37	BH	71	LEU	3.6
44	DS	56	LEU	3.6
45	BT	85	LYS	3.6
16	CP	13	HIS	3.6
31	BA	10	G	3.6
31	DA	2893	G	3.6
50	DY	59	GLY	3.6
31	DA	547	A	3.6
31	DA	1106	A	3.6
7	CG	4	ARG	3.6
33	BD	244	ARG	3.6
38	BI	11	ASN	3.6
41	BP	16	ARG	3.6
42	BQ	16	ARG	3.6
51	DZ	79	ARG	3.6
31	DA	1532	C	3.6
31	DA	2188	C	3.6
38	BI	73	GLU	3.6
39	BN	75	TYR	3.6
44	BS	92	TYR	3.6
46	BU	56	ASP	3.6
8	CH	116	LYS	3.6
38	DI	87	LYS	3.6
46	BU	22	LYS	3.6
41	DP	51	PHE	3.6
31	BA	271(K)	U	3.6
31	BA	2796	U	3.6
26	D4	7	PRO	3.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
39	DN	129	PRO	3.6
36	DG	160	VAL	3.6
44	DS	14	VAL	3.6
3	CC	3	ASN	3.6
10	CJ	69	ASN	3.6
1	CA	159	G	3.6
31	DA	1107	G	3.6
18	AR	68	LYS	3.6
31	BA	547	A	3.6
39	DN	1	MET	3.6
31	BA	1053	C	3.6
31	DA	1543	C	3.6
4	AD	124	GLY	3.6
44	BS	22	GLY	3.6
48	BW	92	ARG	3.6
2	CB	7	VAL	3.6
12	AL	18	VAL	3.6
13	CM	97	PRO	3.6
47	DV	51	VAL	3.6
2	AB	147	LYS	3.6
8	CH	98	LYS	3.6
7	AG	38	LEU	3.6
38	DI	77	LEU	3.6
1	AA	630	G	3.5
1	CA	1186	G	3.5
12	AL	113	ARG	3.5
14	AN	41	ARG	3.5
21	AU	22	ARG	3.5
31	BA	2190	G	3.5
31	DA	1112	G	3.5
1	CA	1037	C	3.5
31	DA	543	C	3.5
47	BV	57	VAL	3.5
20	CT	12	ALA	3.5
27	D5	53	ALA	3.5
49	DX	4	ALA	3.5
15	CO	48	LYS	3.5
45	BT	8	LYS	3.5
44	BS	58	LEU	3.5
13	CM	69	GLU	3.5
1	AA	1086	U	3.5
1	AA	1125	U	3.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
9	AI	107	ARG	3.5
10	AJ	56	HIS	3.5
16	CP	68	ASP	3.5
2	AB	106	LYS	3.5
27	B5	57	VAL	3.5
10	AJ	39	PRO	3.5
49	BX	4	ALA	3.5
31	BA	1177	A	3.5
47	BV	71	LEU	3.5
1	AA	380	G	3.5
31	BA	2655	G	3.5
28	B6	51	GLU	3.5
4	CD	115	ARG	3.5
9	AI	121	ARG	3.5
44	BS	30	ARG	3.5
51	BZ	79	ARG	3.5
1	CA	65	U	3.5
21	CU	16	GLY	3.5
7	AG	9	VAL	3.5
33	DD	38	LYS	3.5
36	DG	135	LEU	3.5
38	DI	134	PRO	3.5
1	CA	1001	A	3.5
9	CI	62	TYR	3.5
9	CI	125	TYR	3.5
31	DA	896	A	3.5
4	CD	77	ASN	3.5
1	AA	158	G	3.5
1	AA	1133	G	3.5
3	CC	199	LYS	3.5
9	CI	103	THR	3.5
31	BA	2659	G	3.5
39	BN	3	THR	3.5
45	DT	8	LYS	3.5
41	BP	25	SER	3.5
38	DI	59	ALA	3.5
3	AC	175	LEU	3.5
19	AS	16	LEU	3.5
37	BH	105	LEU	3.5
25	B3	1	MET	3.5
19	CS	81	ARG	3.5
38	DI	57	ARG	3.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
38	DI	60	GLU	3.5
31	DA	2662	A	3.5
9	CI	85	LEU	3.5
17	CQ	99	SER	3.5
24	B2	35	LEU	3.5
35	DF	128	ALA	3.5
44	BS	55	ALA	3.5
50	BY	31	LEU	3.5
38	BI	111	PRO	3.5
1	CA	64	G	3.5
21	AU	7	ARG	3.5
37	BH	89	ILE	3.5
43	BR	2	ARG	3.5
37	BH	116	GLU	3.4
41	DP	74	GLU	3.4
5	AE	88	LYS	3.4
26	D4	32	TYR	3.4
37	BH	113	VAL	3.4
13	AM	20	THR	3.4
38	BI	68	LEU	3.4
42	BQ	82	ARG	3.4
46	BU	88	ILE	3.4
1	CA	1183	A	3.4
2	AB	195	ASP	3.4
32	BB	25	A	3.4
33	BD	171	ASP	3.4
1	AA	1223	C	3.4
31	BA	1530	C	3.4
9	CI	114	TYR	3.4
1	AA	83	U	3.4
7	CG	80	VAL	3.4
31	BA	12	U	3.4
31	BA	1051	G	3.4
31	DA	2655	G	3.4
32	BB	1	U	3.4
18	CR	82	THR	3.4
9	AI	124	GLN	3.4
13	CM	2	ALA	3.4
34	BE	54	GLN	3.4
45	DT	90	GLN	3.4
2	AB	39	ILE	3.4
12	AL	71	PRO	3.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
12	CL	100	ILE	3.4
20	AT	58	LYS	3.4
50	DY	21	LYS	3.4
25	B3	48	GLU	3.4
41	BP	51	PHE	3.4
31	DA	92	A	3.4
38	DI	130	TYR	3.4
9	AI	41	VAL	3.4
1	CA	436	C	3.4
20	CT	83	ARG	3.4
32	BB	49	C	3.4
42	BQ	136	ALA	3.4
43	DR	8	ARG	3.4
31	DA	271(K)	U	3.4
47	BV	92	THR	3.4
38	BI	97	ILE	3.4
34	DE	62	PRO	3.4
15	AO	48	LYS	3.4
33	DD	4	LYS	3.4
1	AA	306	G	3.4
1	AA	1294	G	3.4
14	AN	32	SER	3.4
35	BF	195	ASP	3.4
10	AJ	85	LEU	3.4
24	B2	16	LEU	3.4
36	DG	146	TYR	3.4
37	BH	169	VAL	3.4
22	B0	74	ARG	3.4
39	DN	132	ALA	3.4
51	BZ	113	ALA	3.4
14	AN	7	ILE	3.4
24	B2	57	ILE	3.4
31	DA	2062	A	3.4
31	DA	2790	A	3.4
36	BG	63	ILE	3.4
45	BT	40	THR	3.4
11	CK	26	ASN	3.4
38	BI	23	PRO	3.4
31	BA	2103	C	3.4
31	DA	1113	U	3.4
4	AD	31	CYS	3.4
9	CI	18	PHE	3.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	CB	155	LEU	3.4
17	AQ	96	GLU	3.4
16	CP	75	ARG	3.4
41	DP	77	ARG	3.4
32	BB	24	G	3.4
20	CT	69	GLY	3.4
38	DI	83	ALA	3.4
45	DT	25	GLY	3.4
50	BY	100	ALA	3.4
38	BI	87	LYS	3.4
15	AO	62	GLN	3.4
41	BP	70	GLN	3.4
44	DS	38	GLN	3.4
1	AA	1183	A	3.3
1	AA	1349	A	3.3
1	CA	1285	A	3.3
1	AA	65	U	3.3
1	CA	1025	U	3.3
6	AF	17	SER	3.3
11	CK	129	SER	3.3
14	CN	25	VAL	3.3
20	AT	61	SER	3.3
32	BB	31	C	3.3
32	DB	114	C	3.3
33	BD	268	ARG	3.3
35	BF	12	LEU	3.3
38	BI	144	VAL	3.3
41	DP	45	LEU	3.3
35	BF	23	ASP	3.3
2	CB	83	MET	3.3
6	AF	54	LYS	3.3
12	AL	20	LYS	3.3
14	CN	58	LYS	3.3
16	CP	63	GLY	3.3
19	AS	50	ALA	3.3
23	B1	32	LYS	3.3
36	BG	73	ALA	3.3
44	DS	99	LYS	3.3
49	DX	64	LYS	3.3
38	DI	120	ILE	3.3
2	CB	67	THR	3.3
19	AS	76	PRO	3.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
34	DE	54	GLN	3.3
50	DY	53	PRO	3.3
1	CA	1030(C)	G	3.3
31	DA	2661	G	3.3
24	B2	30	ARG	3.3
30	B8	46	ARG	3.3
34	DE	58	ARG	3.3
36	DG	136	ARG	3.3
41	DP	41	ARG	3.3
11	CK	42	TRP	3.3
49	BX	93	GLU	3.3
51	DZ	119	GLU	3.3
27	B5	36	CYS	3.3
39	BN	2	LYS	3.3
46	DU	19	LYS	3.3
3	CC	2	GLY	3.3
38	DI	63	ALA	3.3
44	DS	92	TYR	3.3
1	AA	1029	C	3.3
36	BG	2	PRO	3.3
36	DG	138	GLN	3.3
8	CH	36	LEU	3.3
38	BI	128	LEU	3.3
47	BV	95	LEU	3.3
37	BH	17	VAL	3.3
6	CF	92	LYS	3.3
44	BS	11	LYS	3.3
23	D1	27	GLU	3.3
30	D8	65	GLU	3.3
40	BO	108	GLU	3.3
1	AA	1002	G	3.3
4	AD	208	SER	3.3
10	AJ	23	ILE	3.3
19	CS	4	SER	3.3
26	D4	31	ILE	3.3
35	DF	207	GLY	3.3
37	DH	156	ALA	3.3
38	DI	110	ASP	3.3
1	CA	1092	A	3.3
2	CB	91	PRO	3.3
32	DB	26	A	3.3
1	CA	1126	U	3.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
4	AD	132	ARG	3.3
15	CO	88	ARG	3.3
36	DG	72	ARG	3.3
37	BH	60	ARG	3.3
1	AA	1141	C	3.3
12	CL	46	LYS	3.3
33	BD	35	LYS	3.3
42	DQ	90	VAL	3.3
43	DR	11	ASN	3.3
50	DY	43	ASN	3.3
2	AB	134	GLU	3.3
3	AC	182	ILE	3.3
7	CG	83	ALA	3.3
38	DI	66	GLU	3.3
21	AU	2	GLY	3.3
38	DI	106	GLY	3.3
37	BH	42	ARG	3.3
51	BZ	179	ASP	3.3
51	DZ	82	ARG	3.3
1	CA	1026	G	3.3
1	CA	1224	G	3.3
14	AN	6	LEU	3.3
31	BA	271(M)	G	3.3
51	BZ	54	HIS	3.3
2	AB	7	VAL	3.3
35	BF	107	LYS	3.3
37	DH	52	VAL	3.3
1	AA	1065	U	3.3
31	BA	2660	A	3.3
1	AA	1270	C	3.3
9	CI	12	GLU	3.3
34	BE	68	ALA	3.3
36	DG	20	ILE	3.3
47	DV	96	ILE	3.3
50	BY	61	ILE	3.3
9	AI	115	GLY	3.3
20	AT	79	ARG	3.2
21	CU	9	ARG	3.2
42	BQ	133	ARG	3.2
51	BZ	52	SER	3.2
9	CI	123	PRO	3.2
10	CJ	53	PRO	3.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
28	D6	13	CYS	3.2
37	BH	57	ASP	3.2
41	BP	99	LEU	3.2
7	AG	26	PHE	3.2
22	B0	17	GLN	3.2
38	BI	95	LYS	3.2
2	AB	229	VAL	3.2
36	BG	162	THR	3.2
37	BH	129	THR	3.2
28	B6	26	ASN	3.2
35	BF	206	ILE	3.2
1	AA	945	G	3.2
1	CA	427	U	3.2
1	CA	1024	G	3.2
1	CA	1068	G	3.2
12	AL	73	GLU	3.2
13	AM	61	GLU	3.2
23	D1	93	GLU	3.2
24	D2	12	GLU	3.2
23	D1	26	ARG	3.2
29	B7	23	ARG	3.2
6	AF	4	TYR	3.2
1	AA	1060	C	3.2
1	CA	1234	C	3.2
4	AD	157	LEU	3.2
14	AN	58	LYS	3.2
19	AS	15	LEU	3.2
31	DA	2105	C	3.2
37	DH	36	PRO	3.2
39	BN	83	LYS	3.2
45	DT	105	LEU	3.2
46	DU	60	LEU	3.2
49	BX	62	LYS	3.2
37	DH	158	HIS	3.2
44	DS	12	PHE	3.2
7	CG	110	GLN	3.2
13	CM	16	ASP	3.2
37	DH	50	VAL	3.2
2	AB	222	ILE	3.2
24	D2	33	MET	3.2
41	BP	149	GLU	3.2
43	BR	105	ARG	3.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	CB	187	LEU	3.2
16	CP	49	LEU	3.2
27	D5	58	LEU	3.2
35	DF	12	LEU	3.2
49	DX	72	LYS	3.2
51	BZ	5	LEU	3.2
31	BA	2702	U	3.2
1	AA	1036	G	3.2
1	CA	1124	G	3.2
14	CN	36	PHE	3.2
19	CS	9	VAL	3.2
31	BA	353	G	3.2
31	DA	1559	G	3.2
32	BB	48	A	3.2
50	BY	51	VAL	3.2
37	BH	111	HIS	3.2
43	BR	71	GLN	3.2
32	DB	31	C	3.2
51	BZ	77	ASP	3.2
7	AG	49	ILE	3.2
2	AB	111	ARG	3.2
3	CC	189	ALA	3.2
16	CP	71	ARG	3.2
22	D0	74	ARG	3.2
44	DS	37	ALA	3.2
9	AI	80	GLY	3.2
12	CL	63	GLY	3.2
14	AN	61	TRP	3.2
36	DG	65	GLY	3.2
12	AL	47	LYS	3.2
21	CU	25	LYS	3.2
42	BQ	8	LYS	3.2
50	BY	95	LYS	3.2
3	CC	188	LEU	3.2
15	AO	81	LEU	3.2
2	AB	202	PRO	3.2
46	BU	90	VAL	3.2
47	DV	46	VAL	3.2
16	AP	11	SER	3.2
22	D0	17	GLN	3.2
31	DA	271(L)	U	3.2
9	CI	81	ILE	3.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	AA	533	A	3.2
1	CA	969	A	3.2
31	BA	603	A	3.2
31	BA	2310	A	3.2
31	BA	2602	A	3.2
1	AA	97	G	3.2
2	CB	14	GLY	3.2
31	BA	1044	G	3.2
31	BA	1114	G	3.2
31	DA	2304	G	3.2
34	DE	69	LYS	3.2
44	BS	104	GLY	3.2
1	AA	1267	C	3.2
3	AC	43	LEU	3.2
20	AT	72	LEU	3.2
24	B2	31	GLU	3.2
31	BA	2803	C	3.2
31	DA	2477	C	3.2
31	DA	2803	C	3.2
36	DG	53	LEU	3.2
9	AI	92	TYR	3.2
10	AJ	47	PHE	3.2
12	CL	94	PRO	3.2
23	B1	44	PRO	3.2
35	BF	11	VAL	3.2
51	BZ	74	VAL	3.2
12	AL	99	HIS	3.2
30	D8	31	HIS	3.2
7	CG	97	GLN	3.2
9	AI	126	SER	3.2
9	CI	124	GLN	3.2
35	BF	13	SER	3.2
12	CL	26	ALA	3.2
36	DG	64	THR	3.2
37	BH	102	ALA	3.2
31	BA	1108	U	3.1
31	BA	2473	U	3.1
51	BZ	36	LYS	3.1
31	DA	2801(A)	A	3.1
5	CE	130	ASN	3.1
2	AB	232	PRO	3.1
4	AD	4	TYR	3.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
37	DH	131	VAL	3.1
1	AA	947	G	3.1
1	AA	1290	G	3.1
1	CA	1353	G	3.1
31	DA	363	G	3.1
12	CL	41	ARG	3.1
25	B3	44	ARG	3.1
28	D6	46	HIS	3.1
38	DI	51	ILE	3.1
39	BN	101	HIS	3.1
9	AI	84	ALA	3.1
13	CM	31	LYS	3.1
21	AU	5	ASP	3.1
21	AU	19	GLY	3.1
4	AD	156	GLU	3.1
23	B1	57	GLU	3.1
26	D4	18	CYS	3.1
50	DY	62	GLU	3.1
31	DA	2796	U	3.1
10	AJ	44	VAL	3.1
37	BH	133	VAL	3.1
4	AD	118	ARG	3.1
7	CG	84	ASN	3.1
9	AI	114	TYR	3.1
14	AN	34	TYR	3.1
28	B6	20	ASN	3.1
37	BH	164	TYR	3.1
1	AA	1531	A	3.1
1	CA	532	A	3.1
31	BA	2790	A	3.1
32	BB	26	A	3.1
32	BB	52	A	3.1
2	CB	22	LYS	3.1
13	CM	27	LYS	3.1
46	DU	93	LYS	3.1
13	CM	107	ALA	3.1
1	AA	1145	C	3.1
1	CA	1030(B)	C	3.1
1	AA	1241	G	3.1
1	AA	1295	G	3.1
1	AA	1300	G	3.1
1	CA	1021	G	3.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
11	CK	49	GLY	3.1
31	BA	1816	G	3.1
9	CI	110	GLU	3.1
39	BN	139	GLU	3.1
4	CD	31	CYS	3.1
47	BV	58	VAL	3.1
51	DZ	165	VAL	3.1
5	AE	60	TYR	3.1
2	CB	39	ILE	3.1
7	AG	37	ASN	3.1
12	CL	17	LYS	3.1
19	AS	32	LYS	3.1
24	D2	50	ILE	3.1
26	B4	1	MET	3.1
50	BY	101	LYS	3.1
44	BS	84	GLN	3.1
4	AD	21	LEU	3.1
10	AJ	40	LEU	3.1
38	DI	116	LEU	3.1
39	BN	82	LEU	3.1
47	DV	62	LEU	3.1
2	AB	203	GLY	3.1
31	BA	2629	A	3.1
41	DP	104	GLY	3.1
49	BX	3	THR	3.1
1	AA	1189	C	3.1
10	AJ	25	GLU	3.1
28	D6	15	GLU	3.1
28	D6	51	GLU	3.1
38	BI	132	PRO	3.1
1	AA	941	G	3.1
1	AA	1266	G	3.1
1	CA	1202	G	3.1
12	AL	98	TYR	3.1
31	DA	508	G	3.1
3	AC	200	ALA	3.1
30	D8	51	ALA	3.1
34	BE	187	ALA	3.1
2	CB	51	LEU	3.1
4	AD	42	GLN	3.1
31	BA	504	U	3.1
37	BH	143	GLN	3.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
44	DS	47	THR	3.1
45	DT	40	THR	3.1
12	AL	89	ARG	3.1
38	BI	61	ARG	3.1
36	DG	38	VAL	3.1
37	BH	114	VAL	3.1
3	CC	186	PHE	3.1
7	AG	74	GLU	3.1
12	CL	127	GLU	3.1
26	B4	28	LYS	3.1
35	DF	56	GLU	3.1
39	DN	139	GLU	3.1
44	DS	29	PHE	3.1
31	BA	548	A	3.1
31	DA	1913	A	3.1
25	B3	2	PRO	3.1
38	BI	119	PRO	3.1
2	AB	31	TYR	3.1
4	AD	9	CYS	3.1
21	CU	18	TYR	3.1
26	B4	32	TYR	3.1
1	CA	381	C	3.0
1	CA	1027	C	3.0
2	AB	29	ALA	3.0
11	CK	27	ASN	3.0
17	AQ	98	LEU	3.0
22	D0	2	ALA	3.0
38	DI	140	LEU	3.0
51	DZ	76	LEU	3.0
1	AA	1222	G	3.0
1	CA	587	G	3.0
1	CA	1185	G	3.0
2	AB	227	GLY	3.0
7	AG	32	ARG	3.0
41	BP	104	GLY	3.0
43	DR	105	ARG	3.0
50	DY	50	ARG	3.0
31	DA	1175	U	3.0
44	DS	49	VAL	3.0
2	AB	28	PHE	3.0
12	AL	28	LYS	3.0
3	AC	167	TRP	3.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
34	DE	56	PRO	3.0
10	CJ	17	ASP	3.0
2	CB	44	LEU	3.0
13	AM	51	ALA	3.0
24	D2	61	LEU	3.0
35	DF	24	LEU	3.0
39	DN	67	LEU	3.0
2	CB	19	HIS	3.0
9	CI	111	ARG	3.0
17	AQ	92	ARG	3.0
21	CU	24	ARG	3.0
34	BE	58	ARG	3.0
51	DZ	72	ARG	3.0
1	AA	194	C	3.0
1	AA	1118	C	3.0
13	AM	24	GLY	3.0
31	BA	2185	C	3.0
37	BH	93	GLY	3.0
41	DP	28	GLY	3.0
41	DP	34	GLY	3.0
43	DR	71	GLN	3.0
8	AH	3	THR	3.0
9	AI	14	VAL	3.0
41	DP	91	PHE	3.0
12	AL	16	GLU	3.0
31	BA	1420	U	3.0
38	BI	91	SER	3.0
51	BZ	149	SER	3.0
41	BP	48	PRO	3.0
1	AA	1120	G	3.0
1	AA	1310	G	3.0
1	CA	144	G	3.0
31	BA	1042	G	3.0
31	DA	2307	G	3.0
28	B6	34	LEU	3.0
49	BX	75	ASP	3.0
51	DZ	70	LEU	3.0
13	AM	29	ARG	3.0
38	BI	57	ARG	3.0
50	DY	97	ARG	3.0
2	AB	110	GLN	3.0
4	CD	84	LYS	3.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
17	AQ	100	LYS	3.0
19	CS	53	ASN	3.0
47	BV	41	GLY	3.0
1	CA	949	A	3.0
31	BA	1045	A	3.0
32	DB	58	A	3.0
24	D2	37	PHE	3.0
1	AA	330	C	3.0
1	AA	1137	C	3.0
1	AA	1244	C	3.0
7	CG	103	TRP	3.0
31	DA	2103	C	3.0
32	DB	60	C	3.0
7	CG	16	LEU	3.0
19	AS	20	LEU	3.0
47	BV	56	SER	3.0
47	BV	73	SER	3.0
13	CM	99	ARG	3.0
17	AQ	91	ARG	3.0
33	DD	244	ARG	3.0
33	DD	273	ARG	3.0
1	CA	1240	U	3.0
31	BA	272(I)	U	3.0
31	BA	1033	U	3.0
44	DS	34	HIS	3.0
1	AA	1311	G	3.0
13	AM	53	VAL	3.0
31	BA	2206	G	3.0
37	DH	43	VAL	3.0
44	DS	46	VAL	3.0
21	CU	8	THR	3.0
2	AB	200	ILE	3.0
11	CK	108	ILE	3.0
15	AO	3	ILE	3.0
38	DI	4	ILE	3.0
50	BY	5	MET	3.0
50	BY	38	ILE	3.0
3	AC	7	PRO	3.0
7	AG	59	LEU	3.0
38	BI	58	LEU	3.0
22	B0	55	ARG	3.0
1	AA	219	C	3.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
3	AC	26	LYS	3.0
12	CL	20	LYS	3.0
16	CP	39	TYR	3.0
31	BA	272(J)	C	3.0
31	BA	645	C	3.0
32	DB	5	C	3.0
37	DH	138	LYS	3.0
45	DT	85	LYS	3.0
50	DY	33	LYS	3.0
6	AF	88	VAL	3.0
33	BD	223	GLY	3.0
17	AQ	26	GLN	3.0
30	D8	35	GLN	3.0
51	BZ	75	ASN	3.0
8	CH	80	ILE	3.0
13	CM	43	THR	3.0
20	AT	104	LEU	2.9
39	BN	67	LEU	2.9
28	D6	41	PRO	2.9
31	DA	2186	G	2.9
32	BB	118	G	2.9
32	DB	118	G	2.9
36	DG	100	TRP	2.9
37	BH	81	GLU	2.9
43	BR	57	ARG	2.9
1	CA	157	G	2.9
50	DY	56	PRO	2.9
10	CJ	20	ALA	2.9
36	DG	46	ALA	2.9
1	CA	383	A	2.9
31	BA	6	A	2.9
31	BA	1106	A	2.9
2	AB	16	HIS	2.9
9	CI	115	GLY	2.9
10	AJ	36	GLY	2.9
22	D0	3	HIS	2.9
35	BF	126	VAL	2.9
43	DR	3	HIS	2.9
2	AB	152	PHE	2.9
4	AD	201	GLN	2.9
14	CN	16	PHE	2.9
35	BF	203	GLN	2.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	AA	1109	C	2.9
12	AL	85	ILE	2.9
36	BG	39	ILE	2.9
1	AA	82	U	2.9
13	AM	116	THR	2.9
22	D0	41	ARG	2.9
31	BA	1917	U	2.9
35	BF	20	LEU	2.9
39	DN	82	LEU	2.9
41	BP	77	ARG	2.9
5	CE	83	GLU	2.9
13	AM	69	GLU	2.9
14	CN	50	LYS	2.9
14	CN	61	TRP	2.9
25	D3	17	LYS	2.9
35	DF	10	PRO	2.9
38	DI	122	GLU	2.9
39	BN	65	LYS	2.9
11	AK	94	ALA	2.9
37	BH	83	TYR	2.9
39	BN	46	VAL	2.9
5	AE	114	GLY	2.9
21	CU	2	GLY	2.9
1	AA	1206	G	2.9
1	CA	1131	G	2.9
2	AB	70	PHE	2.9
31	DA	2100	G	2.9
32	DB	61	G	2.9
6	AF	16	GLN	2.9
51	DZ	87	ASP	2.9
7	AG	31	MET	2.9
36	DG	52	ILE	2.9
1	AA	1001	A	2.9
13	AM	96	LEU	2.9
31	BA	1545	A	2.9
33	BD	273	ARG	2.9
36	BG	139	LEU	2.9
3	AC	199	LYS	2.9
11	CK	117	ASN	2.9
14	AN	11	LYS	2.9
14	CN	4	LYS	2.9
17	CQ	100	LYS	2.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
21	AU	25	LYS	2.9
43	DR	99	LYS	2.9
50	BY	87	LYS	2.9
14	CN	8	GLU	2.9
22	B0	85	ALA	2.9
24	B2	22	GLU	2.9
31	DA	2183	C	2.9
32	BB	4	C	2.9
51	BZ	168	GLU	2.9
11	CK	25	TYR	2.9
47	BV	37	VAL	2.9
26	D4	17	GLY	2.9
44	BS	108	GLY	2.9
9	CI	20	ARG	2.9
14	CN	6	LEU	2.9
14	CN	44	LEU	2.9
18	AR	54	ARG	2.9
22	D0	7	LEU	2.9
45	BT	90	GLN	2.9
49	BX	68	ARG	2.9
12	CL	57	LYS	2.9
20	AT	74	LYS	2.9
41	BP	137	LYS	2.9
46	BU	54	LYS	2.9
12	AL	61	THR	2.9
1	AA	66	G	2.9
1	CA	1023	G	2.9
19	AS	53	ASN	2.9
4	AD	12	CYS	2.9
9	AI	110	GLU	2.9
28	B6	35	GLU	2.9
31	BA	363	G	2.9
31	DA	361	G	2.9
32	DB	63	G	2.9
33	BD	240	ALA	2.9
41	DP	10	PRO	2.9
31	BA	2801(A)	A	2.9
32	BB	53	A	2.9
1	AA	422	C	2.9
1	AA	1359	C	2.9
1	AA	1240	U	2.9
35	DF	7	TYR	2.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
7	AG	76	ARG	2.9
15	AO	87	ILE	2.9
36	BG	155	MET	2.9
37	BH	171	LEU	2.9
44	BS	27	SER	2.9
45	BT	31	SER	2.9
9	AI	116	LYS	2.9
10	AJ	22	LYS	2.9
24	B2	15	LYS	2.9
2	CB	193	ASP	2.9
12	CL	112	ASP	2.9
13	AM	30	ALA	2.9
13	AM	32	GLU	2.9
38	BI	7	GLU	2.9
3	CC	153	VAL	2.9
10	CJ	44	VAL	2.9
26	B4	18	CYS	2.9
36	BG	70	VAL	2.9
37	BH	141	VAL	2.9
51	BZ	86	VAL	2.9
13	AM	112	GLY	2.9
14	AN	3	ARG	2.9
14	AN	28	GLY	2.9
39	BN	4	TYR	2.9
50	DY	86	ARG	2.9
31	BA	1173	G	2.9
32	BB	33	G	2.9
32	DB	53	A	2.9
4	AD	120	LEU	2.9
9	AI	47	LEU	2.9
35	DF	33	LEU	2.9
37	DH	89	ILE	2.9
38	BI	12	LEU	2.9
38	BI	109	ILE	2.9
3	CC	31	HIS	2.8
16	AP	13	HIS	2.8
1	AA	1135	U	2.8
22	D0	9	SER	2.8
1	AA	1389	C	2.8
4	AD	195	ALA	2.8
36	DG	156	ASP	2.8
10	CJ	42	THR	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
41	BP	10	PRO	2.8
37	BH	127	GLU	2.8
48	BW	78	GLU	2.8
51	DZ	97	GLU	2.8
34	DE	59	VAL	2.8
14	AN	31	ARG	2.8
43	DR	2	ARG	2.8
9	AI	8	GLY	2.8
47	BV	74	LYS	2.8
49	DX	62	LYS	2.8
2	CB	214	ILE	2.8
4	AD	20	TYR	2.8
9	AI	40	LEU	2.8
13	AM	84	ILE	2.8
21	CU	13	ILE	2.8
23	D1	43	TYR	2.8
26	B4	22	ILE	2.8
45	BT	105	LEU	2.8
47	DV	12	TYR	2.8
1	AA	1350	A	2.8
1	CA	160	A	2.8
31	DA	2602	A	2.8
51	BZ	153	SER	2.8
1	CA	348	G	2.8
1	CA	631	G	2.8
1	CA	1205	U	2.8
31	BA	271(I)	G	2.8
31	BA	1176	G	2.8
36	DG	68	PRO	2.8
10	AJ	42	THR	2.8
19	AS	13	ASP	2.8
1	CA	366	C	2.8
1	CA	1260	C	2.8
2	AB	136	VAL	2.8
9	CI	65	VAL	2.8
10	CJ	61	GLU	2.8
34	DE	38	THR	2.8
13	AM	15	VAL	2.8
15	AO	65	ARG	2.8
31	BA	1914	C	2.8
31	DA	1053	C	2.8
33	BD	262	ARG	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
37	BH	40	GLU	2.8
42	DQ	6	ARG	2.8
45	BT	115	ARG	2.8
47	BV	61	VAL	2.8
2	CB	179	LYS	2.8
2	CB	55	PHE	2.8
16	CP	19	ILE	2.8
19	CS	5	LEU	2.8
24	B2	41	ILE	2.8
36	DG	176	LEU	2.8
38	DI	123	LEU	2.8
41	BP	34	GLY	2.8
44	BS	56	LEU	2.8
47	DV	95	LEU	2.8
9	AI	88	TYR	2.8
13	CM	87	TYR	2.8
9	CI	117	HIS	2.8
19	AS	57	HIS	2.8
6	AF	94	GLN	2.8
24	D2	56	GLN	2.8
49	BX	82	GLN	2.8
35	BF	22	ALA	2.8
50	DY	78	ALA	2.8
50	BY	53	PRO	2.8
7	CG	9	VAL	2.8
12	AL	101	VAL	2.8
13	CM	98	VAL	2.8
38	BI	107	VAL	2.8
14	CN	46	GLU	2.8
34	BE	200	GLU	2.8
1	AA	383	A	2.8
8	CH	119	LEU	2.8
20	CT	100	ILE	2.8
1	AA	48	C	2.8
1	AA	976	G	2.8
1	AA	999	C	2.8
1	AA	1030(B)	C	2.8
1	AA	1142	G	2.8
1	CA	1156	G	2.8
1	CA	1491	G	2.8
31	BA	1047	G	2.8
31	BA	2183	C	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
31	BA	2793	G	2.8
31	DA	271(M)	G	2.8
31	DA	271(O)	C	2.8
27	D5	49	CYS	2.8
34	BE	159	HIS	2.8
13	AM	107	ALA	2.8
51	BZ	73	GLN	2.8
12	AL	19	ARG	2.8
13	AM	57	ARG	2.8
10	CJ	55	LYS	2.8
18	CR	21	LYS	2.8
37	BH	115	VAL	2.8
47	DV	36	PRO	2.8
36	DG	103	LEU	2.8
38	DI	99	GLU	2.8
41	BP	30	THR	2.8
41	DP	148	LEU	2.8
2	AB	108	ILE	2.8
9	AI	101	PHE	2.8
51	BZ	57	ILE	2.8
51	BZ	63	ASP	2.8
13	AM	26	GLY	2.8
1	AA	1046	A	2.8
1	CA	961	U	2.8
1	CA	1393	U	2.8
21	CU	21	TYR	2.8
31	BA	1113	U	2.8
31	BA	2753	A	2.8
31	DA	1111	A	2.8
31	DA	1174	A	2.8
34	DE	151	TYR	2.8
39	BN	78	TYR	2.8
21	AU	9	ARG	2.8
31	BA	271(C)	C	2.8
37	BH	96	ALA	2.8
37	DH	96	ALA	2.8
41	DP	61	ARG	2.8
1	CA	1097	C	2.8
1	CA	1363	C	2.8
2	CB	106	LYS	2.8
6	AF	92	LYS	2.8
12	AL	17	LYS	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
23	D1	32	LYS	2.8
50	BY	8	LYS	2.8
1	AA	1117	G	2.8
1	CA	324	G	2.8
1	CA	1034	G	2.8
1	CA	1117	G	2.8
10	AJ	72	VAL	2.8
11	CK	80	VAL	2.8
26	D4	29	PRO	2.8
31	BA	274	G	2.8
31	BA	2751	G	2.8
37	BH	50	VAL	2.8
2	AB	107	THR	2.8
2	AB	163	PHE	2.7
9	CI	64	THR	2.8
37	BH	58	GLU	2.8
38	BI	79	ILE	2.8
38	BI	20	ASP	2.7
51	BZ	143	GLY	2.7
9	CI	92	TYR	2.7
42	DQ	137	TYR	2.7
38	BI	133	HIS	2.7
44	BS	20	ARG	2.7
9	AI	78	LYS	2.7
13	AM	31	LYS	2.7
27	B5	37	LYS	2.7
13	CM	15	VAL	2.7
14	AN	52	GLN	2.7
31	BA	1046	A	2.7
31	BA	2657	A	2.7
36	DG	26	GLN	2.7
14	CN	14	PRO	2.7
28	B6	31	PRO	2.7
37	BH	154	PRO	2.7
10	AJ	90	LEU	2.7
36	DG	3	LEU	2.7
1	AA	1037	C	2.7
1	AA	1128	C	2.7
1	CA	352	C	2.7
3	AC	15	THR	2.7
9	AI	7	THR	2.7
23	B1	27	GLU	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
37	BH	80	SER	2.7
49	BX	90	GLU	2.7
51	BZ	84	GLU	2.7
45	DT	69	GLY	2.7
1	AA	144	G	2.7
31	BA	2207	G	2.7
31	BA	2302	G	2.7
31	BA	2308	G	2.7
31	DA	226	G	2.7
32	BB	61	G	2.7
32	DB	23	G	2.7
11	CK	126	ARG	2.7
44	DS	15	ARG	2.7
2	CB	148	TYR	2.7
6	CF	84	ASN	2.7
38	DI	62	LYS	2.7
2	CB	13	ALA	2.7
10	CJ	26	ALA	2.7
23	D1	64	ALA	2.7
5	CE	33	VAL	2.7
17	CQ	93	GLN	2.7
42	DQ	27	VAL	2.7
50	DY	57	GLN	2.7
24	B2	24	LEU	2.7
36	DG	87	PRO	2.7
38	BI	9	LEU	2.7
44	DS	58	LEU	2.7
51	BZ	68	PRO	2.7
1	AA	1232	U	2.7
1	CA	1159	U	2.7
31	DA	158	U	2.7
31	DA	2102	U	2.7
1	AA	1289	A	2.7
2	AB	18	GLY	2.7
4	CD	175	SER	2.7
13	CM	6	GLY	2.7
31	DA	1445	A	2.7
37	BH	51	ARG	2.7
46	BU	101	ARG	2.7
28	D6	53	LYS	2.7
36	DG	36	LYS	2.7
1	CA	612	C	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	CA	1145	C	2.7
32	DB	91	C	2.7
46	DU	94	ASN	2.7
5	AE	12	LEU	2.7
13	AM	19	LEU	2.7
28	D6	34	LEU	2.7
1	CA	1312	G	2.7
34	BE	56	PRO	2.7
10	AJ	4	ILE	2.7
51	BZ	171	ILE	2.7
13	CM	67	GLU	2.7
18	CR	48	GLY	2.7
26	B4	4	GLY	2.7
26	B4	30	GLU	2.7
29	D7	23	ARG	2.7
37	BH	152	ARG	2.7
38	DI	84	GLY	2.7
42	DQ	59	ARG	2.7
11	AK	127	LYS	2.7
13	CM	79	LYS	2.7
27	B5	3	LYS	2.7
39	DN	2	LYS	2.7
43	BR	9	LYS	2.7
44	BS	21	THR	2.7
1	AA	5	U	2.7
1	AA	974	A	2.7
12	AL	128	ALA	2.7
13	AM	59	TYR	2.7
16	AP	38	TYR	2.7
28	D6	21	TYR	2.7
38	BI	83	ALA	2.7
2	CB	10	LEU	2.7
9	AI	99	LEU	2.7
9	AI	102	LEU	2.7
36	BG	160	VAL	2.7
36	DG	159	VAL	2.7
44	BS	95	HIS	2.7
1	CA	1066	C	2.7
1	CA	1249	C	2.7
3	CC	5	ILE	2.7
6	CF	57	GLN	2.7
21	CU	23	PRO	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
36	BG	41	GLN	2.7
10	AJ	54	PHE	2.7
10	CJ	54	PHE	2.7
7	AG	6	ARG	2.7
14	CN	31	ARG	2.7
41	DP	90	ARG	2.7
4	AD	166	LYS	2.7
13	CM	38	GLY	2.7
18	AR	88	LYS	2.7
19	CS	27	GLU	2.7
20	CT	38	LYS	2.7
23	B1	39	LYS	2.7
23	D1	39	LYS	2.7
41	BP	139	LYS	2.7
50	BY	29	GLU	2.7
50	DY	64	GLU	2.7
1	AA	1127	G	2.7
13	AM	64	TRP	2.7
31	BA	2307	G	2.7
31	DA	2106	G	2.7
32	DB	21	G	2.7
1	CA	1281	U	2.7
2	CB	215	LEU	2.7
2	CB	221	LEU	2.7
4	CD	106	TYR	2.7
7	CG	22	LEU	2.7
9	AI	36	TYR	2.7
23	B1	85	LEU	2.7
37	DH	157	TYR	2.7
38	BI	21	VAL	2.7
7	AG	20	ASP	2.7
36	BG	156	ASP	2.7
1	AA	151	A	2.6
1	AA	1236	A	2.6
9	AI	74	ILE	2.6
9	AI	90	PRO	2.6
24	B2	43	GLN	2.6
31	BA	1445	A	2.6
36	BG	138	GLN	2.6
38	DI	23	PRO	2.6
9	CI	121	ARG	2.6
47	DV	21	ARG	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
8	AH	98	LYS	2.6
24	B2	28	LYS	2.6
39	BN	37	LYS	2.6
41	DP	76	LYS	2.6
1	AA	381	C	2.6
1	AA	1242	C	2.6
1	CA	218	C	2.6
1	CA	972	C	2.6
1	CA	1352	C	2.6
17	CQ	96	GLU	2.6
26	B4	23	GLU	2.6
41	BP	143	GLY	2.6
45	BT	69	GLY	2.6
32	DB	28	C	2.6
49	BX	23	GLU	2.6
51	BZ	11	GLU	2.6
51	BZ	94	GLU	2.6
26	B4	27	THR	2.6
13	CM	64	TRP	2.6
9	AI	85	LEU	2.6
11	CK	24	SER	2.6
13	AM	18	ALA	2.6
18	AR	20	ALA	2.6
42	BQ	81	VAL	2.6
45	BT	106	SER	2.6
36	DG	11	TYR	2.6
1	AA	928	G	2.6
1	AA	1144	G	2.6
1	CA	66	G	2.6
2	AB	42	ILE	2.6
6	AF	15	ASP	2.6
7	AG	42	ILE	2.6
9	AI	21	PRO	2.6
32	BB	21	G	2.6
1	CA	1040	U	2.6
2	AB	132	LYS	2.6
6	CF	18	GLN	2.6
7	AG	13	GLN	2.6
9	CI	11	LYS	2.6
33	BD	4	LYS	2.6
34	DE	61	ARG	2.6
34	DE	67	PHE	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
36	BG	8	LYS	2.6
36	BG	125	PHE	2.6
47	BV	69	LYS	2.6
50	DY	63	LYS	2.6
1	AA	1287	A	2.6
1	CA	968	A	2.6
1	CA	1306	A	2.6
47	BV	34	GLU	2.6
4	CD	32	ALA	2.6
10	CJ	40	LEU	2.6
24	B2	58	ALA	2.6
35	BF	128	ALA	2.6
38	BI	55	ALA	2.6
50	DY	90	LEU	2.6
1	AA	218	C	2.6
1	AA	984	C	2.6
32	BB	32	C	2.6
50	DY	55	TYR	2.6
4	CD	168	ARG	2.6
7	AG	30	ILE	2.6
20	CT	57	ARG	2.6
38	DI	67	ARG	2.6
43	DR	33	ARG	2.6
44	BS	34	HIS	2.6
25	D3	2	PRO	2.6
41	BP	122	PRO	2.6
2	AB	212	GLN	2.6
13	CM	106	ASN	2.6
36	DG	66	GLN	2.6
44	BS	61	ASN	2.6
18	AR	48	GLY	2.6
2	AB	231	GLU	2.6
31	BA	271(L)	U	2.6
36	BG	59	GLU	2.6
37	BH	159	GLU	2.6
1	AA	108	G	2.6
1	AA	348	G	2.6
1	CA	945	G	2.6
1	CA	1139	G	2.6
31	BA	1559	G	2.6
2	CB	165	VAL	2.6
5	AE	21	ALA	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
13	AM	103	THR	2.6
14	AN	22	THR	2.6
20	CT	10	LEU	2.6
20	CT	72	LEU	2.6
26	B4	12	ALA	2.6
7	AG	115	ARG	2.6
19	CS	32	LYS	2.6
23	D1	96	LYS	2.6
31	BA	2801	A	2.6
31	DA	1177	A	2.6
37	DH	60	ARG	2.6
4	AD	38	TYR	2.6
12	CL	116	SER	2.6
16	AP	39	TYR	2.6
23	D1	38	SER	2.6
34	DE	66	HIS	2.6
37	DH	83	TYR	2.6
47	BV	91	TYR	2.6
19	AS	74	PHE	2.6
34	BE	67	PHE	2.6
35	DF	25	PRO	2.6
36	BG	32	PRO	2.6
50	BY	66	PRO	2.6
1	AA	1028	C	2.6
1	AA	1132	C	2.6
1	CA	526	C	2.6
31	BA	2306	C	2.6
31	BA	2474	C	2.6
36	DG	4	ASP	2.6
4	CD	23	GLY	2.6
4	CD	69	GLY	2.6
14	CN	28	GLY	2.6
36	DG	27	ASN	2.6
50	BY	58	GLY	2.6
4	AD	19	LEU	2.6
7	AG	12	LEU	2.6
10	AJ	88	LEU	2.6
41	BP	6	LEU	2.6
41	BP	148	LEU	2.6
49	DX	23	GLU	2.6
51	BZ	144	LEU	2.6
51	BZ	169	GLU	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
38	BI	145	VAL	2.6
45	DT	34	VAL	2.6
47	BV	5	VAL	2.6
3	CC	190	ARG	2.6
9	CI	9	ARG	2.6
9	CI	128	ARG	2.6
26	D4	24	THR	2.6
36	DG	161	THR	2.6
10	CJ	7	LYS	2.6
11	CK	127	LYS	2.6
14	AN	50	LYS	2.6
38	DI	95	LYS	2.6
39	BN	42	TRP	2.6
45	DT	91	ARG	2.6
50	BY	21	LYS	2.6
34	BE	77	ILE	2.6
1	AA	70	G	2.6
1	AA	159	G	2.6
1	AA	391	G	2.6
1	CA	1032	G	2.6
1	CA	1241	G	2.6
31	BA	2187	G	2.6
37	DH	61	HIS	2.6
36	BG	68	PRO	2.6
37	DH	12	PRO	2.6
1	CA	1130	A	2.6
31	BA	1583	A	2.6
31	DA	229	A	2.6
22	D0	13	GLY	2.6
28	D6	26	ASN	2.6
33	DD	66	ASP	2.6
35	DF	195	ASP	2.6
41	BP	109	GLY	2.6
42	DQ	19	GLY	2.6
47	BV	26	ASP	2.6
51	BZ	93	ASP	2.6
51	BZ	132	ASN	2.6
1	AA	1116	C	2.6
28	B6	15	GLU	2.6
31	BA	279	C	2.6
31	BA	2794	C	2.6
31	DA	2791	C	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
32	BB	38	C	2.6
51	DZ	43	GLU	2.6
5	CE	21	ALA	2.6
13	CM	74	VAL	2.6
24	B2	13	ALA	2.6
28	B6	44	ARG	2.6
41	BP	124	LYS	2.6
9	AI	64	THR	2.6
5	AE	118	ILE	2.5
20	AT	55	ILE	2.5
2	AB	19	HIS	2.5
19	AS	80	TYR	2.5
31	DA	1420	U	2.5
32	DB	55	U	2.5
50	BY	77	PRO	2.5
3	CC	154	SER	2.5
37	BH	16	SER	2.5
6	CF	27	GLN	2.5
36	DG	129	GLY	2.5
2	AB	44	LEU	2.5
10	CJ	16	LEU	2.5
10	CJ	90	LEU	2.5
13	CM	66	LEU	2.5
20	CT	92	LEU	2.5
23	D1	82	LEU	2.5
23	D1	94	LEU	2.5
27	B5	58	LEU	2.5
1	AA	1134	G	2.5
1	AA	1233	G	2.5
1	CA	380	G	2.5
9	AI	108	VAL	2.5
9	AI	127	LYS	2.5
9	CI	108	VAL	2.5
20	AT	39	LYS	2.5
20	AT	68	LYS	2.5
20	AT	86	ARG	2.5
22	B0	44	ARG	2.5
23	D1	33	LYS	2.5
31	BA	1039	G	2.5
31	BA	2795	G	2.5
37	DH	44	VAL	2.5
39	BN	21	LYS	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
41	BP	74	GLU	2.5
42	DQ	8	LYS	2.5
46	BU	93	LYS	2.5
51	BZ	20	ARG	2.5
1	AA	1285	A	2.5
1	AA	1363(A)	A	2.5
1	CA	439	A	2.5
1	CA	974	A	2.5
31	BA	1508	A	2.5
44	DS	72	ALA	2.5
11	AK	28	THR	2.5
13	CM	103	THR	2.5
36	BG	52	ILE	2.5
44	DS	18	ILE	2.5
46	DU	25	TRP	2.5
49	DX	32	PRO	2.5
26	B4	16	CYS	2.5
1	AA	1040	U	2.5
1	AA	1126	U	2.5
2	AB	138	LEU	2.5
2	AB	150	SER	2.5
2	CB	98	LEU	2.5
10	CJ	71	LEU	2.5
11	AK	49	GLY	2.5
24	B2	56	GLN	2.5
5	CE	9	LYS	2.5
9	CI	78	LYS	2.5
11	AK	126	ARG	2.5
20	CT	25	ARG	2.5
38	DI	69	LYS	2.5
46	DU	13	LYS	2.5
10	AJ	24	VAL	2.5
34	BE	72	VAL	2.5
4	CD	80	GLU	2.5
37	BH	74	ASN	2.5
41	BP	150	ALA	2.5
51	DZ	77	ASP	2.5
3	AC	5	ILE	2.5
3	CC	14	ILE	2.5
4	AD	5	ILE	2.5
7	CG	50	ILE	2.5
36	DG	39	ILE	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
45	BT	1	MET	2.5
47	BV	49	THR	2.5
1	AA	946	A	2.5
1	AA	1245	A	2.5
1	AA	1332	A	2.5
1	AA	1492	A	2.5
31	BA	896	A	2.5
31	BA	1111	A	2.5
1	AA	1003	G	2.5
1	AA	1220	G	2.5
1	CA	200	G	2.5
1	CA	1190	G	2.5
31	BA	2833	G	2.5
31	DA	2659	G	2.5
32	BB	44	G	2.5
4	CD	43	HIS	2.5
30	D8	63	PRO	2.5
34	DE	44	TYR	2.5
37	BH	65	HIS	2.5
38	DI	137	PRO	2.5
2	AB	51	LEU	2.5
4	CD	155	LEU	2.5
8	AH	133	LEU	2.5
1	AA	1043	C	2.5
1	AA	1217	C	2.5
11	AK	54	ARG	2.5
12	CL	53	ARG	2.5
13	CM	19	LEU	2.5
4	CD	12	CYS	2.5
19	CS	82	GLY	2.5
20	CT	68	LYS	2.5
25	B3	17	LYS	2.5
35	DF	107	LYS	2.5
36	DG	34	LEU	2.5
37	BH	13	LYS	2.5
37	BH	69	ARG	2.5
38	DI	128	LEU	2.5
44	DS	30	ARG	2.5
16	AP	76	GLN	2.5
2	CB	15	VAL	2.5
4	AD	17	VAL	2.5
7	AG	69	VAL	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
11	AK	82	VAL	2.5
29	B7	46	VAL	2.5
47	BV	31	ALA	2.5
1	AA	81	U	2.5
17	AQ	24	GLU	2.5
31	DA	12	U	2.5
32	BB	55	U	2.5
45	DT	36	GLU	2.5
51	BZ	60	GLU	2.5
10	AJ	75	ILE	2.5
14	CN	7	ILE	2.5
22	B0	12	ASN	2.5
28	D6	20	ASN	2.5
47	BV	32	THR	2.5
2	CB	238	LEU	2.5
4	AD	43	HIS	2.5
7	CG	79	ARG	2.5
8	CH	30	ARG	2.5
10	CJ	88	LEU	2.5
16	AP	17	TYR	2.5
18	CR	66	LEU	2.5
25	B3	29	ARG	2.5
34	BE	44	TYR	2.5
37	BH	132	ARG	2.5
38	DI	133	HIS	2.5
43	BR	99	LYS	2.5
47	BV	21	ARG	2.5
51	BZ	163	LEU	2.5
1	AA	1151	A	2.5
1	CA	1191	A	2.5
3	AC	13	GLY	2.5
19	CS	8	GLY	2.5
31	BA	878	A	2.5
31	DA	2801	A	2.5
32	DB	57	A	2.5
50	BY	93	GLY	2.5
15	CO	11	VAL	2.5
19	CS	11	VAL	2.5
33	DD	34	VAL	2.5
37	DH	141	VAL	2.5
47	BV	72	VAL	2.5
1	AA	98	G	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	AA	220	G	2.5
1	AA	1001(A)	G	2.5
1	AA	1024	G	2.5
1	AA	1084	G	2.5
1	CA	80	G	2.5
1	CA	1001(A)	G	2.5
1	CA	1160	G	2.5
1	CA	1184	G	2.5
2	AB	210	SER	2.5
11	CK	107	SER	2.5
14	AN	20	ALA	2.5
32	BB	56	G	2.5
44	BS	100	ALA	2.5
51	DZ	153	SER	2.5
19	CS	49	ILE	2.5
1	AA	1006	C	2.5
1	AA	1027	C	2.5
1	AA	1325	C	2.5
1	AA	1362	C	2.5
1	CA	805	C	2.5
1	CA	970	C	2.5
37	BH	32	GLU	2.5
17	CQ	13	ASP	2.5
36	BG	27	ASN	2.5
50	BY	89	PHE	2.5
51	BZ	123	ASP	2.5
32	DB	1	U	2.5
4	AD	36	ARG	2.5
39	BN	118	LYS	2.5
4	CD	21	LEU	2.5
4	CD	197	PRO	2.5
8	AH	127	LEU	2.5
36	DG	2	PRO	2.5
39	BN	79	PRO	2.5
36	DG	12	TYR	2.5
42	BQ	9	TYR	2.5
44	BS	60	GLY	2.5
49	BX	24	GLY	2.5
7	CG	21	VAL	2.5
46	DU	90	VAL	2.5
50	BY	45	VAL	2.5
19	CS	75	ALA	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
24	D2	39	ALA	2.4
2	AB	58	ILE	2.4
2	CB	80	ILE	2.4
2	CB	222	ILE	2.4
4	CD	9	CYS	2.4
36	BG	77	ILE	2.4
46	DU	88	ILE	2.4
1	AA	1130	A	2.4
2	CB	86	GLU	2.4
23	B1	83	GLU	2.4
31	BA	1913	A	2.4
31	DA	548	A	2.4
33	DD	23	GLU	2.4
37	BH	104	GLU	2.4
5	AE	92	LYS	2.4
7	AG	60	LYS	2.4
13	AM	104	ARG	2.4
15	CO	72	ARG	2.4
33	BD	26	LYS	2.4
40	BO	97	ARG	2.4
1	AA	392	G	2.4
1	AA	485	G	2.4
1	AA	631	G	2.4
15	CO	22	THR	2.4
19	CS	79	THR	2.4
21	CU	17	THR	2.4
22	B0	10	THR	2.4
1	AA	989	C	2.4
1	AA	1115	C	2.4
1	AA	1186	G	2.4
1	AA	1193	G	2.4
1	AA	1216	G	2.4
1	AA	1353	G	2.4
1	CA	1088	G	2.4
4	AD	155	LEU	2.4
31	BA	1423	G	2.4
31	DA	171	G	2.4
31	DA	919	G	2.4
31	DA	1110	G	2.4
32	BB	27	C	2.4
36	DG	43	LEU	2.4
38	BI	75	LEU	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
38	DI	114	LEU	2.4
49	BX	37	THR	2.4
15	CO	2	PRO	2.4
10	AJ	62	HIS	2.4
11	CK	22	HIS	2.4
3	CC	53	ALA	2.4
20	AT	52	ALA	2.4
36	BG	46	ALA	2.4
41	BP	68	GLN	2.4
10	CJ	23	ILE	2.4
40	BO	112	MET	2.4
22	B0	68	GLU	2.4
27	D5	59	GLU	2.4
50	DY	52	SER	2.4
4	CD	36	ARG	2.4
7	CG	35	LYS	2.4
12	CL	32	PHE	2.4
36	BG	23	PHE	2.4
8	AH	30	ARG	2.4
24	D2	59	ARG	2.4
25	D3	29	ARG	2.4
37	DH	153	LYS	2.4
45	BT	33	LYS	2.4
2	AB	11	LEU	2.4
2	AB	196	LEU	2.4
19	AS	5	LEU	2.4
36	BG	130	ASN	2.4
1	AA	977	A	2.4
31	BA	2892	A	2.4
42	BQ	25	ASP	2.4
2	AB	131	PRO	2.4
50	BY	56	PRO	2.4
3	CC	201	TYR	2.4
13	AM	54	VAL	2.4
14	CN	55	GLY	2.4
19	AS	52	TYR	2.4
34	DE	130	GLY	2.4
35	BF	131	GLY	2.4
47	BV	22	VAL	2.4
50	DY	51	VAL	2.4
1	AA	163	C	2.4
1	AA	980	C	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	AA	1260	C	2.4
1	AA	1326	C	2.4
1	CA	948	C	2.4
12	AL	68	ALA	2.4
14	CN	59	ALA	2.4
1	AA	407	G	2.4
1	AA	610	G	2.4
1	AA	1094	G	2.4
1	AA	1160	G	2.4
1	CA	630	G	2.4
1	CA	1022	G	2.4
1	CA	1164	G	2.4
3	AC	14	ILE	2.4
7	AG	2	ALA	2.4
16	AP	19	ILE	2.4
36	BG	171	ALA	2.4
41	DP	150	ALA	2.4
31	DA	1044	G	2.4
32	BB	34	U	2.4
32	DB	117	G	2.4
2	AB	217	ARG	2.4
4	AD	122	ARG	2.4
5	CE	68	GLU	2.4
9	AI	2	GLU	2.4
10	CJ	43	ARG	2.4
13	AM	3	ARG	2.4
17	CQ	91	ARG	2.4
37	DH	85	LYS	2.4
18	AR	83	GLU	2.4
25	B3	38	GLU	2.4
43	BR	115	GLU	2.4
51	BZ	44	PHE	2.4
7	CG	104	LEU	2.4
30	D8	32	LEU	2.4
7	AG	156	TRP	2.4
45	BT	27	THR	2.4
4	CD	112	VAL	2.4
11	AK	30	VAL	2.4
11	AK	67	ASP	2.4
33	DD	171	ASP	2.4
51	BZ	175	VAL	2.4
12	CL	64	TYR	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
13	AM	87	TYR	2.4
2	CB	188	ALA	2.4
7	CG	100	ALA	2.4
1	AA	1360	A	2.4
1	CA	994	A	2.4
10	CJ	38	ILE	2.4
36	BG	69	ALA	2.4
42	DQ	136	ALA	2.4
31	BA	289	A	2.4
31	BA	529	A	2.4
47	DV	99	ILE	2.4
51	BZ	124	ILE	2.4
2	CB	133	LYS	2.4
16	AP	71	ARG	2.4
25	B3	7	LYS	2.4
50	DY	81	LYS	2.4
4	AD	79	PHE	2.4
1	AA	972	C	2.4
1	AA	1150	U	2.4
1	AA	1363	C	2.4
1	CA	164	U	2.4
1	CA	1029	C	2.4
2	CB	11	LEU	2.4
3	AC	161	GLU	2.4
3	CC	161	GLU	2.4
6	CF	14	LEU	2.4
10	CJ	65	LEU	2.4
31	DA	271(N)	U	2.4
32	BB	62	C	2.4
32	DB	3	C	2.4
37	DH	58	GLU	2.4
37	DH	64	LEU	2.4
38	DI	7	GLU	2.4
44	DS	101	LEU	2.4
41	BP	42	SER	2.4
1	AA	388	G	2.4
1	AA	851	G	2.4
1	AA	1182	G	2.4
1	AA	1185	G	2.4
1	CA	97	G	2.4
1	CA	1193	G	2.4
31	DA	352	G	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
32	DB	115	G	2.4
2	AB	183	PRO	2.4
2	CB	164	VAL	2.4
8	CH	27	PRO	2.4
13	AM	74	VAL	2.4
16	AP	15	PRO	2.4
23	B1	34	THR	2.4
34	BE	30	PRO	2.4
36	BG	37	VAL	2.4
37	DH	19	VAL	2.4
50	BY	30	VAL	2.4
4	CD	183	GLY	2.4
28	B6	32	ASN	2.4
35	BF	133	ASN	2.4
5	AE	5	ASP	2.4
10	AJ	17	ASP	2.4
11	AK	111	ASP	2.4
4	AD	158	ILE	2.4
4	CD	158	ILE	2.4
5	CE	60	TYR	2.4
7	AG	85	TYR	2.4
12	CL	120	TYR	2.4
18	CR	34	TYR	2.4
36	DG	150	ASP	2.4
36	DG	69	ALA	2.4
37	DH	94	TYR	2.4
38	DI	126	TYR	2.4
51	BZ	99	TYR	2.4
4	AD	84	LYS	2.4
28	B6	17	LYS	2.4
42	BQ	18	LYS	2.4
4	CD	118	ARG	2.4
4	CD	139	ARG	2.4
24	B2	26	ARG	2.4
42	BQ	59	ARG	2.4
51	BZ	88	PHE	2.4
3	CC	87	LEU	2.4
7	CG	12	LEU	2.4
7	CG	38	LEU	2.4
36	BG	133	LEU	2.4
1	AA	195	A	2.4
1	AA	439	A	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	CA	1035	A	2.4
17	AQ	78	GLU	2.4
37	BH	63	SER	2.4
1	AA	1049	U	2.4
1	AA	1148	U	2.4
3	CC	76	VAL	2.4
12	CL	48	PRO	2.4
27	D5	57	VAL	2.4
31	BA	9	U	2.4
31	DA	1108	U	2.4
34	BE	62	PRO	2.4
36	DG	17	PRO	2.4
37	DH	49	VAL	2.4
47	BV	52	VAL	2.4
47	DV	90	PRO	2.4
51	BZ	83	PRO	2.4
1	AA	924	C	2.3
1	AA	979	C	2.3
1	AA	1112	C	2.3
1	AA	1153	C	2.3
2	AB	228	GLY	2.3
2	CB	190	THR	2.3
24	B2	62	THR	2.3
31	DA	898	C	2.3
32	BB	17	C	2.3
32	DB	32	C	2.3
32	DB	49	C	2.3
21	AU	11	GLY	2.3
35	DF	208	GLY	2.3
2	AB	80	ILE	2.3
3	AC	157	ILE	2.3
3	AC	168	ALA	2.3
3	CC	168	ALA	2.3
11	AK	26	ASN	2.3
4	CD	20	TYR	2.3
5	CE	11	ILE	2.3
13	CM	4	ILE	2.3
20	AT	87	LYS	2.3
44	DS	11	LYS	2.3
45	DT	16	ARG	2.3
46	BU	96	ALA	2.3
51	DZ	140	ASP	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	AA	1207	G	2.3
1	AA	1365	G	2.3
1	CA	971	G	2.3
1	CA	1064	G	2.3
1	CA	1305	G	2.3
31	BA	354	G	2.3
31	BA	1171	G	2.3
31	DA	1416	G	2.3
31	DA	1816	G	2.3
20	AT	62	LEU	2.3
23	B1	94	LEU	2.3
24	D2	24	LEU	2.3
37	DH	171	LEU	2.3
13	AM	67	GLU	2.3
37	DH	53	GLU	2.3
37	DH	81	GLU	2.3
7	AG	61	VAL	2.3
9	CI	17	VAL	2.3
13	CM	54	VAL	2.3
29	D7	46	VAL	2.3
44	DS	69	VAL	2.3
1	AA	1005	A	2.3
1	AA	1251	A	2.3
2	AB	97	TRP	2.3
4	AD	23	GLY	2.3
4	CD	166	LYS	2.3
32	DB	48	A	2.3
19	AS	39	THR	2.3
26	B4	15	ILE	2.3
28	D6	40	CYS	2.3
34	DE	79	ARG	2.3
36	BG	98	ARG	2.3
38	BI	100	ALA	2.3
50	BY	99	CYS	2.3
4	CD	154	ASN	2.3
36	BG	146	TYR	2.3
51	BZ	34	ASN	2.3
1	AA	624	C	2.3
8	AH	4	ASP	2.3
9	CI	50	LEU	2.3
31	BA	884	C	2.3
32	BB	20	C	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
41	DP	6	LEU	2.3
3	AC	37	GLN	2.3
4	AD	45	GLN	2.3
7	AG	8	GLU	2.3
1	AA	1371	G	2.3
1	CA	146	G	2.3
7	AG	66	VAL	2.3
15	CO	60	VAL	2.3
16	CP	51	VAL	2.3
32	BB	16	G	2.3
32	BB	51	G	2.3
38	DI	127	VAL	2.3
44	DS	65	VAL	2.3
51	BZ	139	VAL	2.3
7	AG	29	LYS	2.3
9	CI	116	LYS	2.3
12	AL	57	LYS	2.3
20	CT	39	LYS	2.3
30	D8	52	LYS	2.3
50	DY	4	LYS	2.3
4	CD	29	PRO	2.3
16	CP	26	ARG	2.3
20	CT	23	ARG	2.3
23	D1	44	PRO	2.3
36	DG	118	ARG	2.3
37	BH	97	ARG	2.3
49	BX	32	PRO	2.3
51	BZ	112	ARG	2.3
2	CB	150	SER	2.3
7	AG	27	ILE	2.3
7	CG	27	ILE	2.3
10	CJ	19	SER	2.3
44	DS	35	ILE	2.3
50	BY	41	GLY	2.3
50	DY	38	ILE	2.3
16	AP	45	THR	2.3
24	D2	62	THR	2.3
39	DN	18	ALA	2.3
47	DV	45	THR	2.3
49	DX	37	THR	2.3
9	AI	117	HIS	2.3
26	B4	6	HIS	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	AB	221	LEU	2.3
2	CB	196	LEU	2.3
6	AF	98	LEU	2.3
13	AM	34	LEU	2.3
15	AO	57	LEU	2.3
23	B1	80	LEU	2.3
36	BG	53	LEU	2.3
1	AA	1252	A	2.3
31	DA	1494	A	2.3
3	CC	162	GLN	2.3
4	AD	160	GLN	2.3
6	CF	16	GLN	2.3
7	AG	106	GLN	2.3
31	BA	158	U	2.3
32	DB	22	U	2.3
33	BD	28	GLU	2.3
47	BV	15	GLU	2.3
1	AA	1336	C	2.3
1	AA	1354	C	2.3
1	CA	1038	C	2.3
2	AB	165	VAL	2.3
4	CD	46	LYS	2.3
5	AE	82	VAL	2.3
9	AI	70	LYS	2.3
36	DG	75	LYS	2.3
36	DG	92	VAL	2.3
37	BH	26	VAL	2.3
50	DY	42	VAL	2.3
2	CB	144	ARG	2.3
5	AE	64	ARG	2.3
2	AB	125	PRO	2.3
9	AI	68	GLY	2.3
35	DF	131	GLY	2.3
47	DV	86	GLY	2.3
5	CE	113	ALA	2.3
8	CH	28	ALA	2.3
2	CB	90	MET	2.3
4	CD	181	MET	2.3
11	AK	31	THR	2.3
15	AO	4	THR	2.3
22	B0	9	SER	2.3
36	BG	76	SER	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
3	AC	188	LEU	2.3
12	AL	27	LEU	2.3
16	CP	6	LEU	2.3
34	BE	52	LEU	2.3
34	DE	78	LEU	2.3
1	AA	988	G	2.3
1	AA	1030(A)	G	2.3
1	AA	1131	G	2.3
1	AA	1293	G	2.3
1	AA	1355	G	2.3
1	CA	963	G	2.3
1	CA	1031	G	2.3
31	BA	2304	G	2.3
31	DA	2190	G	2.3
4	AD	26	CYS	2.3
27	D5	36	CYS	2.3
38	DI	11	ASN	2.3
18	AR	30	ASP	2.3
44	BS	41	ASP	2.3
34	BE	69	LYS	2.3
1	AA	197	A	2.3
1	AA	441	A	2.3
1	AA	994	A	2.3
1	CA	996	A	2.3
1	CA	1093	A	2.3
2	AB	30	ARG	2.3
7	CG	74	GLU	2.3
9	AI	128	ARG	2.3
15	CO	73	GLU	2.3
20	AT	60	GLU	2.3
22	D0	55	ARG	2.3
23	B1	20	ARG	2.3
29	D7	41	ARG	2.3
29	D7	49	ARG	2.3
31	DA	2660	A	2.3
44	BS	103	GLU	2.3
44	BS	106	ARG	2.3
44	DS	20	ARG	2.3
45	BT	91	ARG	2.3
50	BY	98	VAL	2.3
51	BZ	165	VAL	2.3
1	AA	96	U	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	AA	164	U	2.3
1	AA	1020	U	2.3
1	AA	1302	U	2.3
1	CA	1085	U	2.3
31	BA	614(A)	U	2.3
4	AD	51	PRO	2.3
10	CJ	37	PRO	2.3
15	AO	2	PRO	2.3
41	BP	23	PRO	2.3
3	AC	194	GLY	2.3
9	AI	122	ALA	2.3
20	AT	49	ALA	2.3
33	DD	240	ALA	2.3
34	BE	88	GLY	2.3
37	BH	14	GLY	2.3
44	DS	22	GLY	2.3
1	AA	1051	C	2.3
1	AA	1327	C	2.3
2	AB	24	TRP	2.3
32	DB	30	C	2.3
4	AD	194	LEU	2.3
4	AD	125	HIS	2.3
19	AS	69	HIS	2.3
34	DE	159	HIS	2.3
10	CJ	35	SER	2.3
2	AB	236	TYR	2.3
12	AL	120	TYR	2.3
14	AN	16	PHE	2.3
3	CC	45	LYS	2.3
4	AD	30	LYS	2.3
4	AD	46	LYS	2.3
5	AE	126	ARG	2.3
7	AG	11	GLN	2.3
11	CK	54	ARG	2.3
15	CO	71	GLN	2.3
17	AQ	93	GLN	2.3
20	CT	89	ARG	2.3
38	DI	61	ARG	2.3
51	DZ	80	ARG	2.3
7	AG	33	ASP	2.3
8	CH	4	ASP	2.3
27	B5	60	VAL	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
38	DI	142	VAL	2.3
45	BT	44	ASP	2.3
9	CI	2	GLU	2.2
38	DI	73	GLU	2.2
46	BU	89	GLU	2.2
1	AA	111	G	2.2
1	AA	438	G	2.2
1	AA	933	G	2.2
1	AA	963	G	2.2
1	AA	1023	G	2.2
1	AA	1034	G	2.2
1	AA	1087	G	2.2
1	AA	1175	G	2.2
1	AA	1271	G	2.2
1	CA	410	G	2.2
1	CA	540	G	2.2
1	CA	1003	G	2.2
31	BA	281	G	2.2
31	BA	882	G	2.2
4	CD	146	ILE	2.2
10	CJ	4	ILE	2.2
7	AG	71	PRO	2.2
9	AI	82	ALA	2.2
9	CI	72	GLY	2.2
36	BG	44	GLY	2.2
37	DH	120	GLY	2.2
49	BX	11	PRO	2.2
13	AM	33	ALA	2.2
40	DO	112	MET	2.2
51	BZ	152	ALA	2.2
32	DB	52	A	2.2
36	DG	19	LEU	2.2
19	CS	39	THR	2.2
33	DD	27	THR	2.2
4	AD	137	SER	2.2
4	AD	152	SER	2.2
8	AH	94	TYR	2.2
10	AJ	14	LYS	2.2
12	AL	116	SER	2.2
14	CN	9	LYS	2.2
14	CN	60	SER	2.2
37	BH	84	SER	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
39	BN	137	LYS	2.2
51	DZ	99	TYR	2.2
1	AA	71	C	2.2
1	AA	985	C	2.2
1	AA	1066	C	2.2
1	AA	1320	C	2.2
1	CA	995	C	2.2
1	CA	1112	C	2.2
1	CA	1359	C	2.2
2	AB	175	ARG	2.2
4	CD	159	ARG	2.2
36	DG	91	ARG	2.2
36	DG	98	ARG	2.2
44	BS	13	ARG	2.2
3	AC	104	GLN	2.2
3	CC	207	VAL	2.2
6	CF	13	ASN	2.2
7	AG	118	VAL	2.2
13	CM	53	VAL	2.2
17	AQ	35	VAL	2.2
19	AS	41	VAL	2.2
37	DH	139	GLN	2.2
47	DV	80	GLN	2.2
38	BI	64	GLU	2.2
48	BW	22	ASP	2.2
2	CB	201	ILE	2.2
13	CM	39	ILE	2.2
17	CQ	60	ILE	2.2
45	DT	86	ILE	2.2
49	BX	89	ILE	2.2
2	CB	101	MET	2.2
2	CB	218	ALA	2.2
14	CN	2	ALA	2.2
16	CP	41	PRO	2.2
30	B8	61	LEU	2.2
36	BG	61	ALA	2.2
47	BV	90	PRO	2.2
36	DG	82	LEU	2.2
1	AA	971	G	2.2
1	AA	1171	G	2.2
1	CA	407	G	2.2
1	CA	1293	G	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
10	CJ	62	HIS	2.2
12	CL	28	LYS	2.2
14	CN	22	THR	2.2
14	CN	49	HIS	2.2
17	AQ	14	LYS	2.2
20	AT	27	LYS	2.2
27	D5	10	LYS	2.2
46	BU	32	PHE	2.2
31	BA	883	G	2.2
31	BA	2792	G	2.2
31	DA	1858	G	2.2
32	DB	116	G	2.2
4	AD	73	ARG	2.2
5	CE	25	ARG	2.2
7	AG	4	ARG	2.2
7	CG	85	TYR	2.2
14	AN	35	ARG	2.2
28	D6	44	ARG	2.2
43	BR	33	ARG	2.2
1	AA	59	A	2.2
1	AA	393	A	2.2
1	AA	1188	A	2.2
1	CA	162	A	2.2
31	BA	2476	A	2.2
31	DA	310	A	2.2
31	DA	2311	A	2.2
3	AC	68	VAL	2.2
4	CD	17	VAL	2.2
14	AN	18	VAL	2.2
44	BS	65	VAL	2.2
4	CD	81	GLU	2.2
11	AK	21	ILE	2.2
12	CL	70	ILE	2.2
26	D4	30	GLU	2.2
34	BE	179	GLU	2.2
38	BI	66	GLU	2.2
1	AA	43	C	2.2
1	AA	435	C	2.2
1	CA	417	C	2.2
31	BA	1147	C	2.2
31	BA	2658	C	2.2
2	CB	154	LEU	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
3	CC	149	ALA	2.2
4	AD	69	GLY	2.2
7	AG	22	LEU	2.2
10	AJ	53	PRO	2.2
12	AL	26	ALA	2.2
13	CM	96	LEU	2.2
28	B6	36	LEU	2.2
39	BN	41	ASP	2.2
35	DF	167	ALA	2.2
36	BG	163	ALA	2.2
37	BH	21	PRO	2.2
2	AB	22	LYS	2.2
3	CC	26	LYS	2.2
7	CG	36	LYS	2.2
20	CT	29	LYS	2.2
44	DS	93	LYS	2.2
8	CH	84	ARG	2.2
38	DI	103	ARG	2.2
46	DU	64	ARG	2.2
38	BI	105	HIS	2.2
37	DH	164	TYR	2.2
37	DH	169	VAL	2.2
51	DZ	58	VAL	2.2
36	BG	78	SER	2.2
37	DH	134	SER	2.2
45	DT	31	SER	2.2
1	AA	1257	U	2.2
31	DA	1497	U	2.2
3	AC	39	ILE	2.2
23	B1	13	ILE	2.2
1	AA	104	G	2.2
9	AI	89	ASN	2.2
1	AA	143	A	2.2
1	AA	157	G	2.2
1	AA	351	G	2.2
1	AA	382	A	2.2
1	AA	973	G	2.2
1	AA	1047	G	2.2
1	CA	102	G	2.2
1	CA	198	G	2.2
1	CA	485	G	2.2
1	CA	610	G	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	CA	929	G	2.2
1	CA	1175	G	2.2
1	CA	1182	G	2.2
4	AD	34	GLU	2.2
31	BA	1170	G	2.2
31	DA	100	G	2.2
31	DA	881	G	2.2
32	BB	63	G	2.2
32	BB	117	G	2.2
9	CI	19	LEU	2.2
34	BE	171	GLU	2.2
37	DH	46	GLU	2.2
40	DO	92	GLU	2.2
50	DY	91	GLU	2.2
3	AC	189	ALA	2.2
16	CP	1	MET	2.2
4	AD	6	GLY	2.2
4	CD	26	CYS	2.2
4	CD	130	GLY	2.2
8	AH	66	GLY	2.2
12	CL	71	PRO	2.2
13	CM	42	ALA	2.2
15	AO	89	GLY	2.2
45	BT	24	PRO	2.2
47	BV	27	ALA	2.2
49	DX	67	GLY	2.2
4	AD	18	LYS	2.2
9	CI	60	ASP	2.2
11	CK	11	LYS	2.2
12	CL	114	LYS	2.2
21	AU	20	LYS	2.2
5	CE	45	PHE	2.2
5	CE	126	ARG	2.2
9	AI	42	ARG	2.2
9	AI	51	ARG	2.2
10	CJ	46	ARG	2.2
15	CO	64	ARG	2.2
25	D3	30	ARG	2.2
36	BG	118	ARG	2.2
36	BG	128	ARG	2.2
44	DS	87	PHE	2.2
45	BT	16	ARG	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	AA	342	C	2.2
1	CA	1132	C	2.2
32	BB	91	C	2.2
32	DB	20	C	2.2
14	AN	33	VAL	2.2
39	DN	4	TYR	2.2
41	BP	71	VAL	2.2
44	BS	49	VAL	2.2
51	DZ	86	VAL	2.2
4	CD	152	SER	2.2
4	CD	160	GLN	2.2
22	B0	16	SER	2.2
38	DI	54	GLN	2.2
44	DS	31	SER	2.2
13	AM	56	LEU	2.2
45	DT	6	LEU	2.2
51	DZ	33	LEU	2.2
22	D0	68	GLU	2.2
36	BG	54	GLU	2.2
41	DP	67	MET	2.2
4	CD	22	LYS	2.2
9	AI	11	LYS	2.2
9	AI	94	ALA	2.2
12	CL	91	LYS	2.2
17	CQ	3	LYS	2.2
20	CT	27	LYS	2.2
23	B1	91	LYS	2.2
36	DG	171	ALA	2.2
41	BP	9	ASN	2.2
38	DI	132	PRO	2.2
41	BP	63	PRO	2.2
41	BP	64	LYS	2.2
47	BV	101	GLY	2.2
50	BY	19	LYS	2.2
1	AA	1235	U	2.2
3	AC	156	ARG	2.2
7	CG	78	ARG	2.2
8	CH	18	ARG	2.2
10	AJ	9	ARG	2.2
33	BD	176	ARG	2.2
33	BD	15	PHE	2.2
34	DE	51	PHE	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
41	BP	87	ASP	2.2
49	DX	6	ASP	2.2
1	AA	408	A	2.2
1	AA	965	A	2.2
1	AA	1493	A	2.2
1	CA	1493	A	2.2
1	AA	324	G	2.2
1	AA	1305	G	2.2
1	AA	1312	G	2.2
1	CA	384	G	2.2
1	CA	1057	G	2.2
31	BA	2894	G	2.2
31	DA	2833	G	2.2
48	DW	111	HIS	2.2
10	CJ	48	THR	2.1
11	AK	80	VAL	2.1
38	BI	92	VAL	2.1
51	DZ	170	THR	2.1
39	BN	72	TYR	2.1
44	BS	36	TYR	2.1
1	AA	1008	C	2.1
9	CI	77	ILE	2.1
31	BA	1043	C	2.1
31	DA	1530	C	2.1
8	CH	127	LEU	2.1
9	AI	87	GLN	2.1
41	BP	147	LEU	2.1
41	DP	88	LEU	2.1
44	BS	48	LEU	2.1
47	BV	40	LEU	2.1
51	DZ	73	GLN	2.1
6	CF	17	SER	2.1
12	CL	118	SER	2.1
20	AT	65	LYS	2.1
26	D4	28	LYS	2.1
38	BI	143	SER	2.1
45	DT	65	LYS	2.1
5	AE	83	GLU	2.1
6	CF	35	ALA	2.1
18	CR	67	ALA	2.1
38	BI	60	GLU	2.1
38	BI	122	GLU	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
38	BI	125	GLU	2.1
38	DI	146	ALA	2.1
41	BP	120	ALA	2.1
44	DS	27	SER	2.1
28	B6	50	ARG	2.1
30	D8	56	GLU	2.1
51	BZ	7	ALA	2.1
17	CQ	63	ARG	2.1
20	AT	69	GLY	2.1
35	BF	30	PRO	2.1
37	DH	135	GLY	2.1
37	DH	166	GLY	2.1
44	BS	90	GLY	2.1
46	DU	101	ARG	2.1
48	DW	112	GLY	2.1
49	BX	67	GLY	2.1
37	BH	147	ASN	2.1
1	AA	223	U	2.1
31	DA	1033	U	2.1
31	DA	2585	U	2.1
32	BB	41	U	2.1
34	DE	17	ASP	2.1
3	CC	198	VAL	2.1
11	AK	42	TRP	2.1
19	CS	45	VAL	2.1
36	BG	5	VAL	2.1
39	BN	55	VAL	2.1
42	BQ	102	VAL	2.1
50	DY	37	VAL	2.1
51	BZ	111	VAL	2.1
51	DZ	42	VAL	2.1
2	AB	67	THR	2.1
3	CC	191	THR	2.1
10	AJ	48	THR	2.1
13	CM	105	THR	2.1
1	AA	1110	A	2.1
6	AF	81	ILE	2.1
13	AM	21	TYR	2.1
31	BA	229	A	2.1
31	DA	357	A	2.1
38	BI	25	TYR	2.1
44	BS	18	ILE	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
44	DS	39	ILE	2.1
2	AB	102	LEU	2.1
2	AB	238	LEU	2.1
4	CD	86	LYS	2.1
20	AT	14	LYS	2.1
20	CT	14	LYS	2.1
41	DP	147	LEU	2.1
42	DQ	77	LYS	2.1
51	DZ	163	LEU	2.1
1	AA	142	G	2.1
1	AA	1088	G	2.1
1	AA	1154	G	2.1
1	CA	530	G	2.1
1	CA	633	G	2.1
1	CA	1030(A)	G	2.1
1	CA	1233	G	2.1
3	AC	169	ALA	2.1
13	CM	3	ARG	2.1
16	CP	76	GLN	2.1
17	AQ	68	ARG	2.1
19	CS	24	ALA	2.1
24	B2	14	ARG	2.1
31	DA	879	G	2.1
32	DB	51	G	2.1
24	B2	39	ALA	2.1
51	BZ	122	ARG	2.1
3	CC	171	GLY	2.1
7	CG	8	GLU	2.1
31	BA	1548	C	2.1
31	DA	1040	C	2.1
31	DA	1914	C	2.1
35	BF	10	PRO	2.1
36	BG	14	GLU	2.1
38	BI	102	SER	2.1
51	DZ	145	GLU	2.1
1	AA	488	C	2.1
1	CA	188	C	2.1
1	CA	747	C	2.1
1	CA	924	C	2.1
1	CA	984	C	2.1
2	AB	104	ASN	2.1
7	AG	62	PHE	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
9	CI	89	ASN	2.1
10	AJ	63	PHE	2.1
46	BU	94	ASN	2.1
50	DY	89	PHE	2.1
51	DZ	88	PHE	2.1
9	AI	44	VAL	2.1
9	CI	41	VAL	2.1
16	CP	62	VAL	2.1
37	DH	133	VAL	2.1
38	BI	81	VAL	2.1
3	AC	31	HIS	2.1
7	CG	153	HIS	2.1
39	BN	128	HIS	2.1
2	AB	10	LEU	2.1
2	AB	155	LEU	2.1
2	AB	156	LYS	2.1
6	CF	81	ILE	2.1
14	CN	42	ILE	2.1
16	CP	44	THR	2.1
32	DB	34	U	2.1
36	BG	172	LEU	2.1
36	DG	107	LEU	2.1
36	DG	173	LEU	2.1
38	BI	78	THR	2.1
38	BI	130	TYR	2.1
39	DN	83	LYS	2.1
45	BT	65	LYS	2.1
47	BV	6	LYS	2.1
50	BY	90	LEU	2.1
6	CF	67	MET	2.1
13	CM	108	ARG	2.1
14	CN	26	ARG	2.1
15	AO	68	ARG	2.1
28	D6	50	ARG	2.1
36	DG	99	MET	2.1
42	BQ	7	MET	2.1
2	AB	225	ALA	2.1
9	CI	122	ALA	2.1
13	AM	72	ALA	2.1
23	D1	42	GLN	2.1
33	DD	224	ALA	2.1
41	BP	134	ALA	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	AA	162	A	2.1
1	AA	1030(D)	A	2.1
1	AA	1288	A	2.1
1	CA	161	A	2.1
4	CD	37	PRO	2.1
9	AI	67	GLY	2.1
13	CM	32	GLU	2.1
27	D5	32	PRO	2.1
28	D6	24	GLU	2.1
31	DA	1359	A	2.1
31	DA	1847	A	2.1
31	DA	2476	A	2.1
41	DP	109	GLY	2.1
42	DQ	91	GLU	2.1
17	AQ	27	PHE	2.1
43	DR	6	SER	2.1
44	BS	53	SER	2.1
1	AA	1048	G	2.1
1	AA	1198	G	2.1
1	CA	70	G	2.1
1	CA	493	G	2.1
1	CA	1108	G	2.1
1	CA	1274	G	2.1
7	AG	105	VAL	2.1
31	DA	2751	G	2.1
39	BN	9	VAL	2.1
1	AA	153	C	2.1
1	AA	154	C	2.1
1	AA	962	C	2.1
1	AA	1018	C	2.1
1	CA	201	C	2.1
31	BA	271(J)	C	2.1
7	CG	29	LYS	2.1
19	CS	25	LYS	2.1
51	DZ	78	LYS	2.1
11	CK	21	ILE	2.1
13	AM	70	LEU	2.1
15	CO	3	ILE	2.1
17	AQ	43	LEU	2.1
18	CR	85	LEU	2.1
20	CT	24	LEU	2.1
28	B6	11	LEU	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
36	BG	176	LEU	2.1
44	DS	32	LEU	2.1
2	AB	47	THR	2.1
7	CG	94	ARG	2.1
9	AI	111	ARG	2.1
4	CD	4	TYR	2.1
13	AM	43	THR	2.1
37	DH	132	ARG	2.1
38	DI	78	THR	2.1
51	BZ	80	ARG	2.1
7	CG	125	MET	2.1
8	CH	58	TYR	2.1
2	AB	186	ALA	2.1
51	BZ	51	ALA	2.1
1	CA	1148	U	2.1
9	AI	3	GLN	2.1
31	BA	1489	U	2.1
32	BB	40	U	2.1
32	DB	40	U	2.1
51	BZ	65	GLN	2.1
5	CE	154	GLY	2.1
4	AD	93	PHE	2.1
16	AP	41	PRO	2.1
25	D3	48	GLU	2.1
40	DO	9	GLU	2.1
51	BZ	92	SER	2.1
3	AC	207	VAL	2.1
13	AM	17	VAL	2.1
1	AA	1093	A	2.1
1	AA	1191	A	2.1
1	CA	55	A	2.1
1	CA	1289	A	2.1
8	AH	56	LYS	2.1
10	AJ	3	LYS	2.1
11	AK	51	LYS	2.1
13	AM	65	LYS	2.1
30	B8	3	LYS	2.1
32	DB	25	A	2.1
36	BG	182	LYS	2.1
5	CE	109	ILE	2.1
7	AG	124	LEU	2.1
2	CB	140	HIS	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
7	CG	3	ARG	2.1
7	CG	41	ARG	2.1
9	CI	56	LEU	2.1
14	CN	39	LEU	2.1
15	AO	34	LEU	2.1
18	AR	78	LEU	2.1
23	B1	52	ARG	2.1
30	B8	62	LEU	2.1
37	BH	121	ILE	2.1
41	BP	105	LEU	2.1
50	DY	31	LEU	2.1
11	CK	81	ASP	2.1
36	BG	126	ASP	2.1
10	AJ	67	THR	2.1
13	CM	21	TYR	2.1
1	AA	1019	C	2.1
1	CA	962	C	2.1
1	CA	1115	C	2.1
31	BA	1509	C	2.1
31	DA	1109	C	2.1
31	DA	1118	C	2.1
1	AA	1231	G	2.1
1	CA	73	G	2.1
1	CA	1253	G	2.1
42	BQ	20	ALA	2.1
45	DT	131	ALA	2.1
6	AF	18	GLN	2.1
7	CG	34	GLY	2.1
9	AI	38	GLN	2.1
9	AI	100	GLY	2.1
10	CJ	39	PRO	2.1
16	CP	80	PHE	2.1
17	AQ	28	PRO	2.1
27	B5	32	PRO	2.1
35	BF	19	GLU	2.1
37	BH	18	GLU	2.1
1	AA	343	U	2.0
12	AL	21	LYS	2.0
12	AL	114	LYS	2.0
17	AQ	37	LYS	2.0
18	AR	84	LYS	2.0
28	B6	45	LYS	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
38	BI	69	LYS	2.0
40	DO	113	LYS	2.0
50	BY	37	VAL	2.0
12	CL	62	SER	2.0
6	AF	19	LEU	2.0
7	AG	84	ASN	2.0
10	AJ	45	ARG	2.0
10	AJ	46	ARG	2.0
13	AM	106	ASN	2.0
14	AN	26	ARG	2.0
20	CT	104	LEU	2.0
24	B2	36	ARG	2.0
37	DH	97	ARG	2.0
41	BP	123	LEU	2.0
44	BS	32	LEU	2.0
45	DT	39	ARG	2.0
1	CA	978	A	2.0
1	CA	1333	A	2.0
6	CF	74	ASP	2.0
9	AI	46	ALA	2.0
16	AP	40	ASP	2.0
19	AS	33	THR	2.0
19	CS	61	TYR	2.0
44	BS	72	ALA	2.0
36	BG	80	PHE	2.0
36	BG	134	GLY	2.0
41	BP	28	GLY	2.0
2	AB	26	PRO	2.0
7	AG	88	PRO	2.0
49	BX	74	PRO	2.0
49	DX	28	PHE	2.0
13	CM	52	GLU	2.0
1	AA	1172	C	2.0
1	CA	435	C	2.0
1	CA	1362	C	2.0
1	CA	1389	C	2.0
4	CD	184	LYS	2.0
16	AP	50	LYS	2.0
18	CR	83	GLU	2.0
25	D3	7	LYS	2.0
38	DI	70	GLU	2.0
42	BQ	22	LYS	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
43	BR	102	GLU	2.0
45	BT	21	GLU	2.0
31	DA	271(J)	C	2.0
31	DA	1178	C	2.0
32	DB	6	C	2.0
47	BV	19	LYS	2.0
3	AC	55	VAL	2.0
8	AH	95	VAL	2.0
19	AS	67	VAL	2.0
1	AA	181	G	2.0
1	AA	1156	G	2.0
1	AA	1309	G	2.0
1	AA	1361	G	2.0
1	CA	473	G	2.0
1	CA	474	G	2.0
1	CA	993	G	2.0
1	CA	1084	G	2.0
1	CA	1087	G	2.0
9	CI	10	ARG	2.0
12	AL	86	ARG	2.0
12	CL	117	ARG	2.0
23	D1	80	LEU	2.0
31	BA	2631	G	2.0
31	DA	1529	G	2.0
39	DN	115	ARG	2.0
41	BP	138	LEU	2.0
49	BX	13	LEU	2.0
49	DX	68	ARG	2.0
51	DZ	112	ARG	2.0
9	AI	77	ILE	2.0
13	AM	9	ILE	2.0
13	CM	9	ILE	2.0
17	CQ	65	ILE	2.0
23	D1	13	ILE	2.0
37	BH	148	ILE	2.0
45	BT	50	ILE	2.0
1	CA	5	U	2.0
24	D2	47	ASN	2.0
31	BA	2218	U	2.0
34	BE	55	ASN	2.0
51	DZ	30	ASN	2.0
36	BG	50	ALA	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
6	CF	55	ASP	2.0
36	BG	42	GLY	2.0
36	DG	178	PHE	2.0
2	CB	132	LYS	2.0
3	AC	73	PRO	2.0
20	AT	18	GLN	2.0
20	AT	90	GLN	2.0
28	B6	41	PRO	2.0
36	BG	105	LYS	2.0
1	AA	1306	A	2.0
1	CA	1357	A	2.0
2	AB	53	ARG	2.0
3	AC	195	VAL	2.0
4	AD	198	VAL	2.0
8	AH	91	ARG	2.0
9	AI	10	ARG	2.0
13	AM	98	VAL	2.0
16	AP	28	ARG	2.0
19	AS	19	VAL	2.0
25	D3	58	VAL	2.0
31	BA	2327	A	2.0
37	DH	79	VAL	2.0
38	BI	127	VAL	2.0
38	BI	135	GLU	2.0
19	AS	81	ARG	2.0
33	BD	43	ARG	2.0
33	DD	268	ARG	2.0
42	DQ	60	ARG	2.0
51	DZ	74	VAL	2.0
10	AJ	6	ILE	2.0
47	BV	99	ILE	2.0
1	AA	386	C	2.0
1	AA	513	C	2.0
1	AA	1039	C	2.0
1	CA	89	C	2.0
1	CA	470	C	2.0
1	CA	1028	C	2.0
1	CA	1244	C	2.0
31	DA	2799	C	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates (i)

There are no oligosaccharides in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3317	1/1	0.61	0.21	53,53,53,53	0
52	MG	BA	3098	1/1	0.69	0.29	59,59,59,59	0
52	MG	DA	3236	1/1	0.69	0.30	71,71,71,71	0
52	MG	BA	3154	1/1	0.71	0.34	77,77,77,77	0
52	MG	DA	3167	1/1	0.72	0.27	63,63,63,63	0
52	MG	BA	3150	1/1	0.72	0.21	40,40,40,40	0
52	MG	CA	1627	1/1	0.74	0.31	81,81,81,81	0
52	MG	DA	3069	1/1	0.74	0.21	63,63,63,63	0
52	MG	BA	3363	1/1	0.74	0.19	54,54,54,54	0
52	MG	CA	1626	1/1	0.74	0.32	68,68,68,68	0
52	MG	AA	1649	1/1	0.75	0.28	76,76,76,76	0
52	MG	DA	3153	1/1	0.75	0.38	73,73,73,73	0
52	MG	AA	1643	1/1	0.77	0.28	66,66,66,66	0
52	MG	DA	3074	1/1	0.77	0.24	54,54,54,54	0
52	MG	DA	3124	1/1	0.77	0.14	49,49,49,49	0
54	K	BA	3369	1/1	0.77	0.10	41,41,41,41	0
52	MG	DA	3331	1/1	0.78	0.31	67,67,67,67	0
52	MG	AA	1624	1/1	0.79	0.34	59,59,59,59	0
52	MG	BA	3127	1/1	0.79	0.23	44,44,44,44	0
52	MG	CA	1611	1/1	0.79	0.28	76,76,76,76	0
52	MG	BA	3163	1/1	0.79	0.19	53,53,53,53	0
52	MG	BA	3299	1/1	0.79	0.17	37,37,37,37	0
52	MG	DA	3175	1/1	0.79	0.22	51,51,51,51	0
52	MG	CA	1630	1/1	0.79	0.33	66,66,66,66	0
52	MG	DA	3297	1/1	0.79	0.18	55,55,55,55	0
52	MG	CA	1638	1/1	0.79	0.41	64,64,64,64	0
52	MG	DA	3015	1/1	0.79	0.26	52,52,52,52	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DA	3072	1/1	0.80	0.43	71,71,71,71	0
52	MG	CA	1642	1/1	0.80	0.34	71,71,71,71	0
52	MG	DA	3265	1/1	0.80	0.15	38,38,38,38	0
52	MG	CA	1651	1/1	0.80	0.25	51,51,51,51	0
52	MG	BA	3368	1/1	0.80	0.20	60,60,60,60	0
52	MG	CA	1615	1/1	0.80	0.26	64,64,64,64	0
52	MG	BA	3111	1/1	0.81	0.36	41,41,41,41	0
52	MG	BA	3338	1/1	0.81	0.15	50,50,50,50	0
52	MG	DA	3133	1/1	0.81	0.23	55,55,55,55	0
52	MG	BA	3166	1/1	0.81	0.15	27,27,27,27	0
52	MG	CA	1637	1/1	0.81	0.23	65,65,65,65	0
52	MG	BA	3367	1/1	0.81	0.18	47,47,47,47	0
52	MG	DA	3195	1/1	0.81	0.12	36,36,36,36	0
52	MG	DA	3223	1/1	0.81	0.26	37,37,37,37	0
52	MG	BA	3181	1/1	0.81	0.16	32,32,32,32	0
52	MG	BA	3292	1/1	0.81	0.11	41,41,41,41	0
52	MG	DA	3284	1/1	0.81	0.20	49,49,49,49	0
52	MG	CA	1613	1/1	0.81	0.24	58,58,58,58	0
52	MG	DA	3299	1/1	0.81	0.09	41,41,41,41	0
52	MG	DA	3323	1/1	0.81	0.35	62,62,62,62	0
52	MG	AA	1637	1/1	0.81	0.39	51,51,51,51	0
52	MG	CA	1625	1/1	0.81	0.26	59,59,59,59	0
54	K	DA	3333	1/1	0.81	0.20	62,62,62,62	0
52	MG	BA	3180	1/1	0.82	0.32	46,46,46,46	0
52	MG	AA	1654	1/1	0.82	0.27	64,64,64,64	0
52	MG	BA	3177	1/1	0.82	0.42	67,67,67,67	0
52	MG	CA	1610	1/1	0.82	0.18	66,66,66,66	0
52	MG	DA	3041	1/1	0.82	0.23	29,29,29,29	0
52	MG	DU	201	1/1	0.82	0.19	60,60,60,60	0
52	MG	DA	3068	1/1	0.82	0.18	57,57,57,57	0
52	MG	DA	3280	1/1	0.82	0.29	70,70,70,70	0
52	MG	DA	3110	1/1	0.83	0.32	50,50,50,50	0
52	MG	DA	3242	1/1	0.83	0.14	35,35,35,35	0
52	MG	AA	1644	1/1	0.83	0.23	68,68,68,68	0
52	MG	BA	3004	1/1	0.83	0.20	14,14,14,14	0
52	MG	AA	1638	1/1	0.83	0.28	69,69,69,69	0
52	MG	DA	3289	1/1	0.83	0.15	53,53,53,53	0
52	MG	DA	3164	1/1	0.83	0.26	41,41,41,41	0
52	MG	BA	3186	1/1	0.83	0.18	38,38,38,38	0
52	MG	DA	3301	1/1	0.83	0.10	15,15,15,15	0
52	MG	DA	3309	1/1	0.83	0.31	66,66,66,66	0
52	MG	BA	3362	1/1	0.83	0.26	50,50,50,50	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3246	1/1	0.83	0.11	40,40,40,40	0
52	MG	DA	3197	1/1	0.83	0.27	46,46,46,46	0
52	MG	CA	1618	1/1	0.83	0.29	58,58,58,58	0
52	MG	DA	3227	1/1	0.83	0.16	47,47,47,47	0
52	MG	BA	3328	1/1	0.84	0.14	27,27,27,27	0
52	MG	DA	3159	1/1	0.84	0.18	40,40,40,40	0
52	MG	BA	3123	1/1	0.84	0.27	40,40,40,40	0
52	MG	BA	3343	1/1	0.84	0.25	40,40,40,40	0
52	MG	BA	3298	1/1	0.84	0.13	41,41,41,41	0
52	MG	BA	3286	1/1	0.84	0.24	44,44,44,44	0
52	MG	BA	3316	1/1	0.84	0.23	41,41,41,41	0
52	MG	DA	3005	1/1	0.84	0.14	49,49,49,49	0
52	MG	DA	3310	1/1	0.84	0.35	56,56,56,56	0
52	MG	DA	3127	1/1	0.84	0.11	33,33,33,33	0
52	MG	DA	3232	1/1	0.84	0.36	63,63,63,63	0
52	MG	DQ	201	1/1	0.84	0.20	42,42,42,42	0
52	MG	BA	3289	1/1	0.84	0.16	44,44,44,44	0
52	MG	DA	3145	1/1	0.84	0.30	40,40,40,40	0
52	MG	DA	3264	1/1	0.84	0.13	58,58,58,58	0
52	MG	CA	1652	1/1	0.85	0.17	61,61,61,61	0
52	MG	AA	1648	1/1	0.85	0.21	80,80,80,80	0
52	MG	BA	3234	1/1	0.85	0.07	16,16,16,16	0
52	MG	DA	3292	1/1	0.85	0.15	52,52,52,52	0
52	MG	BA	3240	1/1	0.85	0.21	50,50,50,50	0
52	MG	AA	1613	1/1	0.85	0.23	62,62,62,62	0
52	MG	AA	1650	1/1	0.85	0.23	49,49,49,49	0
52	MG	BA	3170	1/1	0.85	0.28	36,36,36,36	0
52	MG	AA	1606	1/1	0.85	0.28	86,86,86,86	0
52	MG	DA	3090	1/1	0.85	0.26	33,33,33,33	0
52	MG	BA	3296	1/1	0.85	0.09	36,36,36,36	0
52	MG	AA	1609	1/1	0.85	0.26	52,52,52,52	0
52	MG	CA	1606	1/1	0.85	0.34	52,52,52,52	0
52	MG	CA	1608	1/1	0.85	0.23	68,68,68,68	0
52	MG	BA	3151	1/1	0.85	0.14	47,47,47,47	0
55	CLM	DA	3334	20/20	0.85	0.27	90,90,90,90	0
52	MG	BA	3160	1/1	0.86	0.18	41,41,41,41	0
52	MG	DA	3274	1/1	0.86	0.21	71,71,71,71	0
52	MG	DA	3149	1/1	0.86	0.37	54,54,54,54	0
52	MG	AA	1656	1/1	0.86	0.17	62,62,62,62	0
52	MG	BA	3209	1/1	0.86	0.16	36,36,36,36	0
52	MG	DA	3290	1/1	0.86	0.20	55,55,55,55	0
52	MG	BA	3128	1/1	0.86	0.28	45,45,45,45	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3167	1/1	0.86	0.19	51,51,51,51	0
52	MG	CA	1631	1/1	0.86	0.16	71,71,71,71	0
52	MG	BA	3116	1/1	0.86	0.08	41,41,41,41	0
52	MG	DA	3304	1/1	0.86	0.28	63,63,63,63	0
52	MG	BA	3176	1/1	0.86	0.16	58,58,58,58	0
52	MG	BA	3122	1/1	0.86	0.21	37,37,37,37	0
52	MG	DA	3116	1/1	0.86	0.22	45,45,45,45	0
52	MG	DA	3326	1/1	0.86	0.13	49,49,49,49	0
52	MG	BA	3108	1/1	0.86	0.11	31,31,31,31	0
52	MG	CA	1617	1/1	0.86	0.21	48,48,48,48	0
52	MG	DA	3132	1/1	0.86	0.40	53,53,53,53	0
52	MG	DA	3251	1/1	0.86	0.13	72,72,72,72	0
52	MG	DA	3259	1/1	0.86	0.22	79,79,79,79	0
52	MG	D5	102	1/1	0.86	0.16	58,58,58,58	0
52	MG	BA	3221	1/1	0.87	0.24	31,31,31,31	0
52	MG	DA	3136	1/1	0.87	0.18	48,48,48,48	0
52	MG	DA	3140	1/1	0.87	0.30	42,42,42,42	0
52	MG	DA	3270	1/1	0.87	0.35	55,55,55,55	0
52	MG	AA	1604	1/1	0.87	0.21	62,62,62,62	0
52	MG	AA	1612	1/1	0.87	0.30	56,56,56,56	0
52	MG	BA	3072	1/1	0.87	0.27	41,41,41,41	0
52	MG	DA	3157	1/1	0.87	0.16	48,48,48,48	0
52	MG	BA	3254	1/1	0.87	0.25	34,34,34,34	0
52	MG	CA	1632	1/1	0.87	0.20	56,56,56,56	0
52	MG	DA	3293	1/1	0.87	0.28	54,54,54,54	0
52	MG	CA	1635	1/1	0.87	0.24	73,73,73,73	0
52	MG	DA	3077	1/1	0.87	0.21	38,38,38,38	0
52	MG	DA	3178	1/1	0.87	0.20	30,30,30,30	0
52	MG	DA	3191	1/1	0.87	0.13	38,38,38,38	0
52	MG	DA	3088	1/1	0.87	0.21	40,40,40,40	0
52	MG	BA	3263	1/1	0.87	0.13	29,29,29,29	0
52	MG	DA	3312	1/1	0.87	0.21	45,45,45,45	0
52	MG	DA	3096	1/1	0.87	0.29	61,61,61,61	0
52	MG	DA	3224	1/1	0.87	0.23	41,41,41,41	0
52	MG	BA	3329	1/1	0.87	0.21	49,49,49,49	0
52	MG	DA	3332	1/1	0.87	0.31	69,69,69,69	0
52	MG	BA	3171	1/1	0.87	0.26	35,35,35,35	0
52	MG	BA	3197	1/1	0.87	0.19	27,27,27,27	0
52	MG	BA	3358	1/1	0.87	0.26	59,59,59,59	0
52	MG	DA	3249	1/1	0.87	0.17	48,48,48,48	0
52	MG	AA	1608	1/1	0.87	0.39	70,70,70,70	0
52	MG	BA	3314	1/1	0.88	0.14	41,41,41,41	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	CA	1641	1/1	0.88	0.21	45,45,45,45	0
52	MG	AA	1607	1/1	0.88	0.26	47,47,47,47	0
52	MG	DA	3261	1/1	0.88	0.07	51,51,51,51	0
52	MG	AA	1605	1/1	0.88	0.25	71,71,71,71	0
52	MG	BA	3320	1/1	0.88	0.27	52,52,52,52	0
52	MG	BA	3039	1/1	0.88	0.26	37,37,37,37	0
52	MG	BA	3284	1/1	0.88	0.28	39,39,39,39	0
52	MG	BA	3188	1/1	0.88	0.17	36,36,36,36	0
52	MG	DA	3024	1/1	0.88	0.24	47,47,47,47	0
52	MG	DA	3028	1/1	0.88	0.34	34,34,34,34	0
52	MG	BA	3131	1/1	0.88	0.29	45,45,45,45	0
52	MG	DA	3047	1/1	0.88	0.27	33,33,33,33	0
52	MG	DA	3165	1/1	0.88	0.13	38,38,38,38	0
52	MG	DA	3067	1/1	0.88	0.09	35,35,35,35	0
52	MG	CA	1621	1/1	0.88	0.36	50,50,50,50	0
52	MG	BA	3113	1/1	0.88	0.22	26,26,26,26	0
52	MG	BA	3041	1/1	0.88	0.25	24,24,24,24	0
52	MG	DA	3305	1/1	0.88	0.25	46,46,46,46	0
52	MG	BA	3152	1/1	0.88	0.18	49,49,49,49	0
52	MG	CA	1629	1/1	0.88	0.13	57,57,57,57	0
52	MG	BA	3366	1/1	0.88	0.21	52,52,52,52	0
52	MG	AA	1642	1/1	0.88	0.20	46,46,46,46	0
52	MG	BA	3301	1/1	0.88	0.24	36,36,36,36	0
52	MG	DA	3228	1/1	0.88	0.14	38,38,38,38	0
52	MG	BB	205	1/1	0.88	0.10	59,59,59,59	0
52	MG	BR	202	1/1	0.88	0.19	31,31,31,31	0
52	MG	DA	3237	1/1	0.88	0.24	57,57,57,57	0
52	MG	DA	3239	1/1	0.88	0.22	41,41,41,41	0
52	MG	DA	3241	1/1	0.88	0.20	54,54,54,54	0
52	MG	DA	3122	1/1	0.88	0.27	40,40,40,40	0
52	MG	BA	3218	1/1	0.89	0.18	30,30,30,30	0
52	MG	BA	3120	1/1	0.89	0.24	25,25,25,25	0
52	MG	DA	3245	1/1	0.89	0.21	65,65,65,65	0
52	MG	BA	3344	1/1	0.89	0.15	56,56,56,56	0
52	MG	DA	3008	1/1	0.89	0.15	33,33,33,33	0
52	MG	DA	3139	1/1	0.89	0.27	43,43,43,43	0
52	MG	DA	3014	1/1	0.89	0.41	71,71,71,71	0
52	MG	BA	3349	1/1	0.89	0.32	65,65,65,65	0
52	MG	CA	1620	1/1	0.89	0.25	45,45,45,45	0
52	MG	AA	1628	1/1	0.89	0.28	70,70,70,70	0
52	MG	BA	3093	1/1	0.89	0.46	50,50,50,50	0
52	MG	AA	1655	1/1	0.89	0.19	45,45,45,45	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DA	3160	1/1	0.89	0.28	51,51,51,51	0
52	MG	DA	3161	1/1	0.89	0.09	44,44,44,44	0
52	MG	BA	3365	1/1	0.89	0.13	43,43,43,43	0
52	MG	BA	3308	1/1	0.89	0.21	45,45,45,45	0
52	MG	AA	1629	1/1	0.89	0.13	49,49,49,49	0
52	MG	DA	3295	1/1	0.89	0.39	73,73,73,73	0
52	MG	DA	3070	1/1	0.89	0.22	35,35,35,35	0
52	MG	DA	3176	1/1	0.89	0.23	66,66,66,66	0
52	MG	AA	1616	1/1	0.89	0.18	57,57,57,57	0
52	MG	DA	3184	1/1	0.89	0.18	32,32,32,32	0
52	MG	BA	3281	1/1	0.89	0.16	41,41,41,41	0
52	MG	CA	1634	1/1	0.89	0.16	47,47,47,47	0
52	MG	AA	1625	1/1	0.89	0.30	40,40,40,40	0
52	MG	DA	3207	1/1	0.89	0.34	54,54,54,54	0
52	MG	DA	3318	1/1	0.89	0.12	43,43,43,43	0
52	MG	DA	3319	1/1	0.89	0.14	55,55,55,55	0
52	MG	DA	3214	1/1	0.89	0.20	39,39,39,39	0
52	MG	DA	3325	1/1	0.89	0.26	46,46,46,46	0
52	MG	CA	1604	1/1	0.89	0.23	67,67,67,67	0
52	MG	DA	3329	1/1	0.89	0.17	51,51,51,51	0
52	MG	BA	3325	1/1	0.89	0.27	53,53,53,53	0
52	MG	DA	3103	1/1	0.89	0.14	33,33,33,33	0
52	MG	DA	3109	1/1	0.89	0.19	48,48,48,48	0
52	MG	BA	3327	1/1	0.89	0.24	48,48,48,48	0
52	MG	DX	101	1/1	0.89	0.07	45,45,45,45	0
52	MG	BA	3207	1/1	0.89	0.13	32,32,32,32	0
52	MG	CA	1643	1/1	0.89	0.21	42,42,42,42	0
55	CLM	BA	3370	20/20	0.89	0.24	90,90,90,90	0
52	MG	AA	1627	1/1	0.89	0.18	60,60,60,60	0
52	MG	BA	3064	1/1	0.90	0.27	41,41,41,41	0
52	MG	DA	3081	1/1	0.90	0.16	24,24,24,24	0
52	MG	AA	1651	1/1	0.90	0.17	45,45,45,45	0
52	MG	BA	3245	1/1	0.90	0.33	52,52,52,52	0
52	MG	DA	3094	1/1	0.90	0.26	38,38,38,38	0
52	MG	BA	3075	1/1	0.90	0.26	38,38,38,38	0
52	MG	DA	3101	1/1	0.90	0.17	34,34,34,34	0
52	MG	BA	3249	1/1	0.90	0.22	54,54,54,54	0
52	MG	BA	3250	1/1	0.90	0.19	48,48,48,48	0
52	MG	BA	3086	1/1	0.90	0.25	27,27,27,27	0
52	MG	BA	3347	1/1	0.90	0.24	47,47,47,47	0
52	MG	DA	3121	1/1	0.90	0.25	49,49,49,49	0
52	MG	BA	3255	1/1	0.90	0.27	54,54,54,54	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3355	1/1	0.90	0.15	51,51,51,51	0
52	MG	BA	3356	1/1	0.90	0.12	60,60,60,60	0
52	MG	DA	3131	1/1	0.90	0.34	55,55,55,55	0
52	MG	DA	3271	1/1	0.90	0.35	56,56,56,56	0
52	MG	BA	3173	1/1	0.90	0.29	50,50,50,50	0
52	MG	BA	3360	1/1	0.90	0.30	48,48,48,48	0
52	MG	DA	3282	1/1	0.90	0.17	61,61,61,61	0
52	MG	BA	3266	1/1	0.90	0.26	37,37,37,37	0
52	MG	BA	3090	1/1	0.90	0.15	14,14,14,14	0
52	MG	CA	1646	1/1	0.90	0.43	58,58,58,58	0
52	MG	AA	1630	1/1	0.90	0.24	49,49,49,49	0
52	MG	BA	3178	1/1	0.90	0.21	32,32,32,32	0
52	MG	D1	101	1/1	0.90	0.21	47,47,47,47	0
52	MG	BA	3141	1/1	0.90	0.14	47,47,47,47	0
52	MG	DA	3158	1/1	0.90	0.11	33,33,33,33	0
52	MG	BA	3148	1/1	0.90	0.14	23,23,23,23	0
52	MG	DA	3302	1/1	0.90	0.18	39,39,39,39	0
52	MG	BA	3293	1/1	0.90	0.19	47,47,47,47	0
52	MG	BA	3182	1/1	0.90	0.21	37,37,37,37	0
52	MG	DA	3163	1/1	0.90	0.21	30,30,30,30	0
52	MG	AA	1632	1/1	0.90	0.25	51,51,51,51	0
52	MG	BA	3102	1/1	0.90	0.16	38,38,38,38	0
52	MG	DA	3316	1/1	0.90	0.16	62,62,62,62	0
52	MG	DA	3025	1/1	0.90	0.28	46,46,46,46	0
52	MG	AA	1645	1/1	0.90	0.23	61,61,61,61	0
52	MG	DA	3037	1/1	0.90	0.27	33,33,33,33	0
52	MG	DA	3040	1/1	0.90	0.42	58,58,58,58	0
52	MG	BA	3199	1/1	0.90	0.27	42,42,42,42	0
52	MG	AA	1621	1/1	0.90	0.19	37,37,37,37	0
52	MG	DA	3193	1/1	0.90	0.24	40,40,40,40	0
52	MG	CA	1612	1/1	0.90	0.16	48,48,48,48	0
52	MG	DB	204	1/1	0.90	0.25	37,37,37,37	0
52	MG	BA	3315	1/1	0.90	0.24	43,43,43,43	0
52	MG	DA	3200	1/1	0.90	0.13	37,37,37,37	0
52	MG	BA	3155	1/1	0.90	0.20	39,39,39,39	0
52	MG	AA	1615	1/1	0.90	0.11	35,35,35,35	0
52	MG	DA	3222	1/1	0.90	0.23	41,41,41,41	0
52	MG	AA	1620	1/1	0.90	0.34	52,52,52,52	0
52	MG	BA	3321	1/1	0.90	0.14	33,33,33,33	0
52	MG	DA	3051	1/1	0.91	0.24	29,29,29,29	0
52	MG	BA	3014	1/1	0.91	0.31	30,30,30,30	0
52	MG	BA	3310	1/1	0.91	0.13	31,31,31,31	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3312	1/1	0.91	0.10	41,41,41,41	0
52	MG	AA	1622	1/1	0.91	0.17	40,40,40,40	0
52	MG	BA	3235	1/1	0.91	0.21	38,38,38,38	0
52	MG	DA	3220	1/1	0.91	0.15	40,40,40,40	0
52	MG	AA	1640	1/1	0.91	0.12	60,60,60,60	0
52	MG	DA	3075	1/1	0.91	0.25	38,38,38,38	0
52	MG	BA	3119	1/1	0.91	0.26	34,34,34,34	0
52	MG	DA	3079	1/1	0.91	0.17	36,36,36,36	0
52	MG	BA	3048	1/1	0.91	0.25	22,22,22,22	0
52	MG	DA	3082	1/1	0.91	0.23	44,44,44,44	0
52	MG	BA	3056	1/1	0.91	0.05	20,20,20,20	0
52	MG	CA	1623	1/1	0.91	0.19	50,50,50,50	0
52	MG	DA	3092	1/1	0.91	0.34	47,47,47,47	0
52	MG	BA	3323	1/1	0.91	0.20	42,42,42,42	0
52	MG	DA	3095	1/1	0.91	0.16	47,47,47,47	0
52	MG	DA	3244	1/1	0.91	0.17	36,36,36,36	0
52	MG	BA	3324	1/1	0.91	0.11	53,53,53,53	0
52	MG	DA	3248	1/1	0.91	0.11	33,33,33,33	0
52	MG	DA	3098	1/1	0.91	0.25	34,34,34,34	0
52	MG	AA	1614	1/1	0.91	0.20	47,47,47,47	0
52	MG	DA	3253	1/1	0.91	0.09	32,32,32,32	0
52	MG	BA	3251	1/1	0.91	0.18	40,40,40,40	0
52	MG	BA	3124	1/1	0.91	0.29	39,39,39,39	0
52	MG	AA	1634	1/1	0.91	0.36	51,51,51,51	0
52	MG	DA	3114	1/1	0.91	0.21	46,46,46,46	0
52	MG	DA	3269	1/1	0.91	0.19	61,61,61,61	0
52	MG	BA	3336	1/1	0.91	0.15	49,49,49,49	0
52	MG	DA	3117	1/1	0.91	0.21	54,54,54,54	0
52	MG	BA	3258	1/1	0.91	0.06	21,21,21,21	0
52	MG	BA	3260	1/1	0.91	0.11	13,13,13,13	0
52	MG	DA	3281	1/1	0.91	0.22	63,63,63,63	0
52	MG	CA	1636	1/1	0.91	0.09	77,77,77,77	0
52	MG	BA	3074	1/1	0.91	0.22	48,48,48,48	0
52	MG	DA	3288	1/1	0.91	0.10	42,42,42,42	0
52	MG	BA	3129	1/1	0.91	0.14	33,33,33,33	0
52	MG	CA	1639	1/1	0.91	0.27	50,50,50,50	0
52	MG	BA	3270	1/1	0.91	0.12	26,26,26,26	0
52	MG	BA	3271	1/1	0.91	0.26	53,53,53,53	0
52	MG	BA	3272	1/1	0.91	0.24	36,36,36,36	0
52	MG	BA	3279	1/1	0.91	0.13	39,39,39,39	0
52	MG	AA	1635	1/1	0.91	0.08	53,53,53,53	0
52	MG	AA	1618	1/1	0.91	0.12	53,53,53,53	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DA	3150	1/1	0.91	0.28	32,32,32,32	0
52	MG	AA	1646	1/1	0.91	0.10	48,48,48,48	0
52	MG	DA	3156	1/1	0.91	0.16	51,51,51,51	0
52	MG	BA	3364	1/1	0.91	0.16	64,64,64,64	0
52	MG	DA	3004	1/1	0.91	0.16	19,19,19,19	0
52	MG	B1	101	1/1	0.91	0.14	25,25,25,25	0
52	MG	BA	3096	1/1	0.91	0.15	16,16,16,16	0
52	MG	B5	102	1/1	0.91	0.18	44,44,44,44	0
52	MG	BA	3294	1/1	0.91	0.24	40,40,40,40	0
52	MG	DA	3020	1/1	0.91	0.32	33,33,33,33	0
52	MG	BB	203	1/1	0.91	0.08	55,55,55,55	0
52	MG	BA	3203	1/1	0.91	0.15	47,47,47,47	0
52	MG	DA	3170	1/1	0.91	0.11	42,42,42,42	0
52	MG	DA	3330	1/1	0.91	0.24	53,53,53,53	0
52	MG	DA	3173	1/1	0.91	0.30	57,57,57,57	0
52	MG	DA	3174	1/1	0.91	0.20	54,54,54,54	0
52	MG	DB	201	1/1	0.91	0.46	57,57,57,57	0
52	MG	DB	203	1/1	0.91	0.08	73,73,73,73	0
52	MG	BF	301	1/1	0.91	0.11	43,43,43,43	0
52	MG	BA	3003	1/1	0.91	0.21	44,44,44,44	0
52	MG	AA	1647	1/1	0.91	0.20	46,46,46,46	0
52	MG	BA	3159	1/1	0.91	0.25	52,52,52,52	0
52	MG	DA	3187	1/1	0.91	0.27	44,44,44,44	0
52	MG	DA	3188	1/1	0.91	0.34	43,43,43,43	0
52	MG	BA	3305	1/1	0.91	0.17	54,54,54,54	0
52	MG	DA	3192	1/1	0.91	0.29	36,36,36,36	0
52	MG	AA	1601	1/1	0.92	0.19	50,50,50,50	0
52	MG	BA	3230	1/1	0.92	0.28	37,37,37,37	0
52	MG	BA	3287	1/1	0.92	0.09	27,27,27,27	0
52	MG	DA	3031	1/1	0.92	0.15	51,51,51,51	0
52	MG	BA	3288	1/1	0.92	0.18	46,46,46,46	0
52	MG	DA	3038	1/1	0.92	0.24	25,25,25,25	0
52	MG	BA	3339	1/1	0.92	0.14	31,31,31,31	0
52	MG	BA	3341	1/1	0.92	0.16	66,66,66,66	0
52	MG	DA	3142	1/1	0.92	0.26	32,32,32,32	0
52	MG	DA	3143	1/1	0.92	0.14	40,40,40,40	0
52	MG	DA	3252	1/1	0.92	0.23	57,57,57,57	0
52	MG	DA	3045	1/1	0.92	0.24	30,30,30,30	0
52	MG	DA	3254	1/1	0.92	0.20	46,46,46,46	0
52	MG	DA	3258	1/1	0.92	0.14	38,38,38,38	0
52	MG	DA	3148	1/1	0.92	0.28	51,51,51,51	0
52	MG	BA	3059	1/1	0.92	0.19	25,25,25,25	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3022	1/1	0.92	0.12	37,37,37,37	0
52	MG	DA	3056	1/1	0.92	0.16	24,24,24,24	0
52	MG	DA	3267	1/1	0.92	0.19	46,46,46,46	0
52	MG	DA	3155	1/1	0.92	0.08	41,41,41,41	0
52	MG	DA	3058	1/1	0.92	0.19	42,42,42,42	0
52	MG	BA	3345	1/1	0.92	0.20	43,43,43,43	0
52	MG	BA	3067	1/1	0.92	0.17	28,28,28,28	0
52	MG	BA	3348	1/1	0.92	0.21	34,34,34,34	0
52	MG	BA	3244	1/1	0.92	0.16	50,50,50,50	0
52	MG	BA	3103	1/1	0.92	0.21	27,27,27,27	0
52	MG	BA	3143	1/1	0.92	0.23	29,29,29,29	0
52	MG	DA	3287	1/1	0.92	0.37	61,61,61,61	0
52	MG	BA	3104	1/1	0.92	0.08	22,22,22,22	0
52	MG	BA	3359	1/1	0.92	0.14	39,39,39,39	0
52	MG	BA	3105	1/1	0.92	0.22	19,19,19,19	0
52	MG	DA	3080	1/1	0.92	0.29	30,30,30,30	0
52	MG	BA	3068	1/1	0.92	0.26	35,35,35,35	0
52	MG	BA	3025	1/1	0.92	0.12	29,29,29,29	0
52	MG	DA	3085	1/1	0.92	0.12	19,19,19,19	0
52	MG	BA	3309	1/1	0.92	0.32	49,49,49,49	0
52	MG	DA	3089	1/1	0.92	0.25	31,31,31,31	0
52	MG	DA	3180	1/1	0.92	0.07	38,38,38,38	0
52	MG	DA	3181	1/1	0.92	0.24	29,29,29,29	0
52	MG	BA	3187	1/1	0.92	0.23	33,33,33,33	0
52	MG	DA	3308	1/1	0.92	0.16	43,43,43,43	0
52	MG	BA	3031	1/1	0.92	0.18	39,39,39,39	0
52	MG	BA	3189	1/1	0.92	0.21	46,46,46,46	0
52	MG	AA	1611	1/1	0.92	0.14	72,72,72,72	0
52	MG	BA	3077	1/1	0.92	0.22	20,20,20,20	0
52	MG	BA	3268	1/1	0.92	0.23	38,38,38,38	0
52	MG	BA	3318	1/1	0.92	0.19	34,34,34,34	0
52	MG	BP	201	1/1	0.92	0.20	35,35,35,35	0
52	MG	DA	3198	1/1	0.92	0.18	37,37,37,37	0
52	MG	DA	3108	1/1	0.92	0.27	39,39,39,39	0
52	MG	DA	3202	1/1	0.92	0.24	46,46,46,46	0
52	MG	BA	3079	1/1	0.92	0.17	36,36,36,36	0
52	MG	DA	3210	1/1	0.92	0.08	46,46,46,46	0
52	MG	BA	3083	1/1	0.92	0.27	34,34,34,34	0
52	MG	DA	3215	1/1	0.92	0.16	27,27,27,27	0
52	MG	DA	3216	1/1	0.92	0.30	45,45,45,45	0
52	MG	DA	3111	1/1	0.92	0.33	39,39,39,39	0
52	MG	DF	301	1/1	0.92	0.21	53,53,53,53	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DP	201	1/1	0.92	0.11	19,19,19,19	0
52	MG	DA	3221	1/1	0.92	0.25	43,43,43,43	0
52	MG	AA	1639	1/1	0.92	0.30	48,48,48,48	0
52	MG	CA	1607	1/1	0.92	0.32	46,46,46,46	0
52	MG	BA	3276	1/1	0.92	0.23	35,35,35,35	0
52	MG	BA	3215	1/1	0.92	0.08	10,10,10,10	0
52	MG	BA	3007	1/1	0.92	0.22	40,40,40,40	0
52	MG	DA	3123	1/1	0.92	0.07	38,38,38,38	0
52	MG	BA	3225	1/1	0.93	0.21	32,32,32,32	0
52	MG	DA	3240	1/1	0.93	0.10	40,40,40,40	0
52	MG	BA	3227	1/1	0.93	0.22	22,22,22,22	0
52	MG	BA	3118	1/1	0.93	0.16	38,38,38,38	0
52	MG	BA	3303	1/1	0.93	0.18	37,37,37,37	0
52	MG	BA	3304	1/1	0.93	0.27	49,49,49,49	0
52	MG	DA	3247	1/1	0.93	0.13	37,37,37,37	0
52	MG	BA	3231	1/1	0.93	0.11	26,26,26,26	0
52	MG	DA	3029	1/1	0.93	0.15	43,43,43,43	0
52	MG	BA	3232	1/1	0.93	0.20	27,27,27,27	0
52	MG	DA	3032	1/1	0.93	0.18	31,31,31,31	0
52	MG	DA	3035	1/1	0.93	0.22	31,31,31,31	0
52	MG	CA	1601	1/1	0.93	0.17	61,61,61,61	0
52	MG	DA	3256	1/1	0.93	0.20	46,46,46,46	0
52	MG	BA	3052	1/1	0.93	0.23	23,23,23,23	0
52	MG	BA	3169	1/1	0.93	0.27	33,33,33,33	0
52	MG	BA	3236	1/1	0.93	0.15	31,31,31,31	0
52	MG	DA	3152	1/1	0.93	0.16	36,36,36,36	0
52	MG	BA	3313	1/1	0.93	0.30	56,56,56,56	0
52	MG	DA	3266	1/1	0.93	0.28	45,45,45,45	0
52	MG	BA	3237	1/1	0.93	0.31	42,42,42,42	0
52	MG	DA	3268	1/1	0.93	0.24	63,63,63,63	0
52	MG	DA	3048	1/1	0.93	0.24	30,30,30,30	0
52	MG	DA	3049	1/1	0.93	0.26	42,42,42,42	0
52	MG	BA	3009	1/1	0.93	0.40	38,38,38,38	0
52	MG	AA	1631	1/1	0.93	0.27	52,52,52,52	0
52	MG	BA	3061	1/1	0.93	0.25	35,35,35,35	0
52	MG	DA	3063	1/1	0.93	0.22	38,38,38,38	0
52	MG	DA	3065	1/1	0.93	0.12	30,30,30,30	0
52	MG	DA	3283	1/1	0.93	0.29	52,52,52,52	0
52	MG	BA	3094	1/1	0.93	0.25	30,30,30,30	0
52	MG	DA	3285	1/1	0.93	0.06	33,33,33,33	0
52	MG	BA	3095	1/1	0.93	0.20	38,38,38,38	0
52	MG	BA	3062	1/1	0.93	0.15	30,30,30,30	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3018	1/1	0.93	0.17	27,27,27,27	0
52	MG	DA	3071	1/1	0.93	0.29	31,31,31,31	0
52	MG	DA	3291	1/1	0.93	0.11	36,36,36,36	0
52	MG	BA	3101	1/1	0.93	0.18	24,24,24,24	0
52	MG	BA	3138	1/1	0.93	0.16	4,4,4,4	0
52	MG	BA	3184	1/1	0.93	0.17	40,40,40,40	0
52	MG	AA	1653	1/1	0.93	0.15	46,46,46,46	0
52	MG	BA	3001	1/1	0.93	0.16	36,36,36,36	0
52	MG	DA	3300	1/1	0.93	0.29	54,54,54,54	0
52	MG	BA	3145	1/1	0.93	0.23	33,33,33,33	0
52	MG	DA	3183	1/1	0.93	0.26	35,35,35,35	0
52	MG	BA	3071	1/1	0.93	0.13	22,22,22,22	0
52	MG	BA	3191	1/1	0.93	0.26	19,19,19,19	0
52	MG	DA	3307	1/1	0.93	0.12	42,42,42,42	0
52	MG	DA	3084	1/1	0.93	0.19	31,31,31,31	0
52	MG	BA	3192	1/1	0.93	0.18	17,17,17,17	0
52	MG	BA	3194	1/1	0.93	0.22	30,30,30,30	0
52	MG	AA	1626	1/1	0.93	0.20	46,46,46,46	0
52	MG	DA	3313	1/1	0.93	0.26	48,48,48,48	0
52	MG	DA	3314	1/1	0.93	0.20	40,40,40,40	0
52	MG	AA	1636	1/1	0.93	0.27	47,47,47,47	0
52	MG	BA	3280	1/1	0.93	0.24	41,41,41,41	0
52	MG	BA	3202	1/1	0.93	0.27	35,35,35,35	0
52	MG	DA	3320	1/1	0.93	0.08	31,31,31,31	0
52	MG	DA	3322	1/1	0.93	0.24	45,45,45,45	0
52	MG	BA	3283	1/1	0.93	0.22	50,50,50,50	0
52	MG	BA	3350	1/1	0.93	0.33	54,54,54,54	0
52	MG	BA	3110	1/1	0.93	0.29	27,27,27,27	0
52	MG	BA	3204	1/1	0.93	0.16	36,36,36,36	0
52	MG	DA	3211	1/1	0.93	0.27	50,50,50,50	0
52	MG	BA	3005	1/1	0.93	0.17	26,26,26,26	0
52	MG	CA	1647	1/1	0.93	0.14	49,49,49,49	0
52	MG	CA	1649	1/1	0.93	0.31	55,55,55,55	0
52	MG	BA	3047	1/1	0.93	0.20	22,22,22,22	0
52	MG	BA	3211	1/1	0.93	0.12	30,30,30,30	0
52	MG	DD	301	1/1	0.93	0.13	32,32,32,32	0
52	MG	BA	3290	1/1	0.93	0.30	40,40,40,40	0
52	MG	DA	3115	1/1	0.93	0.19	47,47,47,47	0
52	MG	BA	3115	1/1	0.93	0.22	34,34,34,34	0
52	MG	DR	201	1/1	0.93	0.07	34,34,34,34	0
52	MG	BA	3217	1/1	0.93	0.20	34,34,34,34	0
52	MG	DA	3119	1/1	0.93	0.15	36,36,36,36	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	AA	1633	1/1	0.93	0.10	42,42,42,42	0
52	MG	DA	3233	1/1	0.93	0.24	51,51,51,51	0
52	MG	BA	3117	1/1	0.93	0.26	50,50,50,50	0
52	MG	DA	3009	1/1	0.93	0.30	47,47,47,47	0
52	MG	BA	3196	1/1	0.94	0.20	26,26,26,26	0
52	MG	DA	3255	1/1	0.94	0.20	49,49,49,49	0
52	MG	BA	3228	1/1	0.94	0.16	27,27,27,27	0
52	MG	DA	3027	1/1	0.94	0.32	36,36,36,36	0
52	MG	BA	3229	1/1	0.94	0.20	26,26,26,26	0
52	MG	DA	3260	1/1	0.94	0.12	34,34,34,34	0
52	MG	DA	3093	1/1	0.94	0.21	44,44,44,44	0
52	MG	DA	3262	1/1	0.94	0.28	60,60,60,60	0
52	MG	DA	3263	1/1	0.94	0.23	65,65,65,65	0
52	MG	DA	3168	1/1	0.94	0.29	32,32,32,32	0
52	MG	DA	3169	1/1	0.94	0.32	45,45,45,45	0
52	MG	CA	1628	1/1	0.94	0.18	50,50,50,50	0
52	MG	DA	3172	1/1	0.94	0.10	48,48,48,48	0
52	MG	BA	3259	1/1	0.94	0.14	40,40,40,40	0
52	MG	AA	1617	1/1	0.94	0.20	57,57,57,57	0
52	MG	DA	3033	1/1	0.94	0.12	31,31,31,31	0
52	MG	BA	3198	1/1	0.94	0.37	62,62,62,62	0
52	MG	DA	3177	1/1	0.94	0.10	37,37,37,37	0
52	MG	DA	3275	1/1	0.94	0.20	51,51,51,51	0
52	MG	DA	3278	1/1	0.94	0.28	54,54,54,54	0
52	MG	DA	3279	1/1	0.94	0.15	44,44,44,44	0
52	MG	BA	3264	1/1	0.94	0.08	11,11,11,11	0
52	MG	DA	3179	1/1	0.94	0.14	29,29,29,29	0
52	MG	DA	3105	1/1	0.94	0.11	39,39,39,39	0
52	MG	AA	1619	1/1	0.94	0.23	44,44,44,44	0
52	MG	DA	3039	1/1	0.94	0.22	48,48,48,48	0
52	MG	BB	206	1/1	0.94	0.31	48,48,48,48	0
52	MG	DA	3185	1/1	0.94	0.26	49,49,49,49	0
52	MG	DA	3186	1/1	0.94	0.18	42,42,42,42	0
52	MG	BB	207	1/1	0.94	0.15	58,58,58,58	0
52	MG	DA	3113	1/1	0.94	0.06	59,59,59,59	0
52	MG	DA	3043	1/1	0.94	0.20	49,49,49,49	0
52	MG	BA	3267	1/1	0.94	0.12	41,41,41,41	0
52	MG	BA	3049	1/1	0.94	0.26	23,23,23,23	0
52	MG	BA	3010	1/1	0.94	0.29	37,37,37,37	0
52	MG	CA	1640	1/1	0.94	0.09	53,53,53,53	0
52	MG	DA	3120	1/1	0.94	0.22	36,36,36,36	0
52	MG	BA	3342	1/1	0.94	0.25	69,69,69,69	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DA	3201	1/1	0.94	0.16	43,43,43,43	0
52	MG	CA	1603	1/1	0.94	0.31	32,32,32,32	0
52	MG	DA	3203	1/1	0.94	0.18	38,38,38,38	0
52	MG	BA	3135	1/1	0.94	0.23	30,30,30,30	0
52	MG	DA	3306	1/1	0.94	0.20	54,54,54,54	0
52	MG	DA	3208	1/1	0.94	0.13	34,34,34,34	0
52	MG	DA	3059	1/1	0.94	0.19	24,24,24,24	0
52	MG	DA	3126	1/1	0.94	0.10	36,36,36,36	0
52	MG	DA	3060	1/1	0.94	0.19	46,46,46,46	0
52	MG	DA	3128	1/1	0.94	0.12	29,29,29,29	0
52	MG	DA	3129	1/1	0.94	0.14	36,36,36,36	0
52	MG	DA	3219	1/1	0.94	0.21	25,25,25,25	0
52	MG	BA	3307	1/1	0.94	0.26	38,38,38,38	0
52	MG	BA	3026	1/1	0.94	0.15	45,45,45,45	0
52	MG	CA	1648	1/1	0.94	0.24	53,53,53,53	0
52	MG	BA	3238	1/1	0.94	0.27	43,43,43,43	0
52	MG	DA	3137	1/1	0.94	0.20	69,69,69,69	0
52	MG	DA	3226	1/1	0.94	0.16	55,55,55,55	0
52	MG	CA	1650	1/1	0.94	0.15	45,45,45,45	0
52	MG	BA	3140	1/1	0.94	0.22	44,44,44,44	0
52	MG	DA	3141	1/1	0.94	0.29	35,35,35,35	0
52	MG	BA	3058	1/1	0.94	0.16	30,30,30,30	0
52	MG	BA	3027	1/1	0.94	0.29	25,25,25,25	0
52	MG	BA	3351	1/1	0.94	0.10	48,48,48,48	0
52	MG	BA	3282	1/1	0.94	0.15	46,46,46,46	0
52	MG	DB	202	1/1	0.94	0.29	60,60,60,60	0
52	MG	BA	3028	1/1	0.94	0.42	24,24,24,24	0
52	MG	DA	3078	1/1	0.94	0.21	31,31,31,31	0
52	MG	DA	3151	1/1	0.94	0.19	40,40,40,40	0
52	MG	DA	3243	1/1	0.94	0.20	56,56,56,56	0
52	MG	BA	3247	1/1	0.94	0.15	35,35,35,35	0
52	MG	BA	3012	1/1	0.94	0.23	38,38,38,38	0
52	MG	DA	3010	1/1	0.94	0.20	35,35,35,35	0
52	MG	BA	3006	1/1	0.94	0.32	33,33,33,33	0
52	MG	DA	3083	1/1	0.94	0.21	37,37,37,37	0
52	MG	DA	3250	1/1	0.94	0.16	56,56,56,56	0
52	MG	BA	3016	1/1	0.94	0.09	11,11,11,11	0
52	MG	CA	1624	1/1	0.94	0.16	50,50,50,50	0
52	MG	DA	3086	1/1	0.94	0.16	34,34,34,34	0
52	MG	BA	3302	1/1	0.95	0.17	31,31,31,31	0
52	MG	BA	3216	1/1	0.95	0.24	35,35,35,35	0
52	MG	BA	3257	1/1	0.95	0.05	35,35,35,35	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DA	3066	1/1	0.95	0.16	29,29,29,29	0
52	MG	BA	3146	1/1	0.95	0.23	33,33,33,33	0
52	MG	BA	3361	1/1	0.95	0.23	52,52,52,52	0
52	MG	BA	3306	1/1	0.95	0.27	35,35,35,35	0
52	MG	BA	3054	1/1	0.95	0.12	48,48,48,48	0
52	MG	DA	3257	1/1	0.95	0.20	46,46,46,46	0
52	MG	BA	3219	1/1	0.95	0.27	24,24,24,24	0
52	MG	BA	3262	1/1	0.95	0.12	30,30,30,30	0
52	MG	BA	3220	1/1	0.95	0.23	22,22,22,22	0
52	MG	BA	3311	1/1	0.95	0.11	38,38,38,38	0
52	MG	DA	3076	1/1	0.95	0.17	23,23,23,23	0
52	MG	CA	1645	1/1	0.95	0.20	45,45,45,45	0
52	MG	BA	3038	1/1	0.95	0.25	17,17,17,17	0
52	MG	DA	3166	1/1	0.95	0.20	64,64,64,64	0
52	MG	BA	3223	1/1	0.95	0.28	25,25,25,25	0
52	MG	BA	3099	1/1	0.95	0.19	34,34,34,34	0
52	MG	BA	3121	1/1	0.95	0.17	34,34,34,34	0
52	MG	BA	3100	1/1	0.95	0.18	23,23,23,23	0
52	MG	BD	301	1/1	0.95	0.15	25,25,25,25	0
52	MG	BE	301	1/1	0.95	0.20	16,16,16,16	0
52	MG	CA	1653	1/1	0.95	0.16	47,47,47,47	0
52	MG	BA	3008	1/1	0.95	0.20	27,27,27,27	0
52	MG	DA	3087	1/1	0.95	0.11	24,24,24,24	0
52	MG	BA	3076	1/1	0.95	0.18	21,21,21,21	0
52	MG	DA	3001	1/1	0.95	0.12	45,45,45,45	0
52	MG	BP	202	1/1	0.95	0.05	0,0,0,0	0
52	MG	BQ	201	1/1	0.95	0.05	18,18,18,18	0
52	MG	DA	3007	1/1	0.95	0.12	48,48,48,48	0
52	MG	BQ	202	1/1	0.95	0.23	37,37,37,37	0
52	MG	BA	3040	1/1	0.95	0.20	37,37,37,37	0
52	MG	BA	3278	1/1	0.95	0.06	31,31,31,31	0
52	MG	BA	3322	1/1	0.95	0.19	41,41,41,41	0
52	MG	DA	3099	1/1	0.95	0.29	34,34,34,34	0
52	MG	DA	3100	1/1	0.95	0.18	35,35,35,35	0
52	MG	BA	3161	1/1	0.95	0.21	32,32,32,32	0
52	MG	DA	3016	1/1	0.95	0.16	29,29,29,29	0
52	MG	DA	3018	1/1	0.95	0.16	29,29,29,29	0
52	MG	BA	3233	1/1	0.95	0.15	20,20,20,20	0
52	MG	DA	3021	1/1	0.95	0.15	38,38,38,38	0
52	MG	DA	3298	1/1	0.95	0.26	59,59,59,59	0
52	MG	BA	3193	1/1	0.95	0.12	46,46,46,46	0
52	MG	BA	3002	1/1	0.95	0.24	23,23,23,23	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DA	3026	1/1	0.95	0.19	55,55,55,55	0
52	MG	CA	1609	1/1	0.95	0.32	41,41,41,41	0
52	MG	BA	3164	1/1	0.95	0.14	33,33,33,33	0
52	MG	DA	3206	1/1	0.95	0.25	45,45,45,45	0
52	MG	BA	3043	1/1	0.95	0.12	32,32,32,32	0
52	MG	BA	3332	1/1	0.95	0.07	35,35,35,35	0
52	MG	BA	3023	1/1	0.95	0.14	13,13,13,13	0
52	MG	CA	1614	1/1	0.95	0.27	57,57,57,57	0
52	MG	BA	3087	1/1	0.95	0.16	10,10,10,10	0
52	MG	CA	1616	1/1	0.95	0.20	45,45,45,45	0
52	MG	BA	3241	1/1	0.95	0.15	44,44,44,44	0
52	MG	DA	3217	1/1	0.95	0.17	36,36,36,36	0
52	MG	DA	3315	1/1	0.95	0.12	43,43,43,43	0
52	MG	BA	3089	1/1	0.95	0.12	15,15,15,15	0
52	MG	DA	3317	1/1	0.95	0.09	48,48,48,48	0
52	MG	DA	3125	1/1	0.95	0.08	33,33,33,33	0
52	MG	AA	1603	1/1	0.95	0.31	43,43,43,43	0
52	MG	BA	3032	1/1	0.95	0.20	15,15,15,15	0
52	MG	DA	3321	1/1	0.95	0.13	41,41,41,41	0
52	MG	DA	3042	1/1	0.95	0.14	29,29,29,29	0
52	MG	BA	3205	1/1	0.95	0.15	34,34,34,34	0
52	MG	DA	3225	1/1	0.95	0.07	37,37,37,37	0
52	MG	DA	3130	1/1	0.95	0.15	53,53,53,53	0
52	MG	DA	3328	1/1	0.95	0.30	61,61,61,61	0
52	MG	BA	3174	1/1	0.95	0.17	29,29,29,29	0
52	MG	BA	3346	1/1	0.95	0.18	63,63,63,63	0
52	MG	DA	3229	1/1	0.95	0.26	36,36,36,36	0
52	MG	DA	3230	1/1	0.95	0.08	25,25,25,25	0
52	MG	BA	3295	1/1	0.95	0.11	35,35,35,35	0
52	MG	DA	3134	1/1	0.95	0.26	28,28,28,28	0
52	MG	DA	3235	1/1	0.95	0.21	48,48,48,48	0
52	MG	DA	3135	1/1	0.95	0.33	39,39,39,39	0
52	MG	BA	3142	1/1	0.95	0.23	26,26,26,26	0
52	MG	DA	3238	1/1	0.95	0.08	36,36,36,36	0
52	MG	DA	3050	1/1	0.95	0.15	33,33,33,33	0
52	MG	BA	3297	1/1	0.95	0.17	31,31,31,31	0
52	MG	DA	3052	1/1	0.95	0.19	36,36,36,36	0
52	MG	DA	3054	1/1	0.95	0.20	55,55,55,55	0
52	MG	BA	3070	1/1	0.95	0.24	24,24,24,24	0
52	MG	DA	3057	1/1	0.95	0.21	32,32,32,32	0
52	MG	BA	3253	1/1	0.95	0.08	17,17,17,17	0
52	MG	DA	3147	1/1	0.95	0.16	43,43,43,43	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3036	1/1	0.95	0.16	8,8,8,8	0
52	MG	BA	3252	1/1	0.96	0.14	50,50,50,50	0
52	MG	BU	201	1/1	0.96	0.18	25,25,25,25	0
52	MG	BX	101	1/1	0.96	0.06	21,21,21,21	0
52	MG	DA	3194	1/1	0.96	0.09	22,22,22,22	0
52	MG	DA	3061	1/1	0.96	0.20	34,34,34,34	0
52	MG	DA	3272	1/1	0.96	0.26	47,47,47,47	0
52	MG	DA	3062	1/1	0.96	0.09	24,24,24,24	0
52	MG	BA	3337	1/1	0.96	0.20	32,32,32,32	0
52	MG	DA	3276	1/1	0.96	0.20	44,44,44,44	0
52	MG	DA	3277	1/1	0.96	0.14	38,38,38,38	0
52	MG	DA	3064	1/1	0.96	0.14	44,44,44,44	0
52	MG	BA	3033	1/1	0.96	0.09	18,18,18,18	0
52	MG	BA	3183	1/1	0.96	0.15	43,43,43,43	0
52	MG	CA	1605	1/1	0.96	0.17	68,68,68,68	0
52	MG	D5	101	1/1	0.96	0.19	30,30,30,30	0
52	MG	BA	3034	1/1	0.96	0.18	45,45,45,45	0
52	MG	BA	3156	1/1	0.96	0.21	12,12,12,12	0
52	MG	DA	3209	1/1	0.96	0.19	51,51,51,51	0
52	MG	DA	3003	1/1	0.96	0.28	39,39,39,39	0
52	MG	BA	3092	1/1	0.96	0.23	19,19,19,19	0
52	MG	DA	3212	1/1	0.96	0.09	33,33,33,33	0
52	MG	DA	3138	1/1	0.96	0.24	31,31,31,31	0
52	MG	BA	3300	1/1	0.96	0.23	45,45,45,45	0
52	MG	DA	3006	1/1	0.96	0.31	38,38,38,38	0
52	MG	AA	1652	1/1	0.96	0.30	44,44,44,44	0
52	MG	BA	3226	1/1	0.96	0.03	14,14,14,14	0
52	MG	BA	3134	1/1	0.96	0.14	36,36,36,36	0
52	MG	DA	3144	1/1	0.96	0.20	43,43,43,43	0
52	MG	BA	3190	1/1	0.96	0.22	36,36,36,36	0
52	MG	DA	3011	1/1	0.96	0.23	27,27,27,27	0
52	MG	BA	3162	1/1	0.96	0.12	45,45,45,45	0
52	MG	BA	3265	1/1	0.96	0.26	43,43,43,43	0
52	MG	AA	1602	1/1	0.96	0.22	32,32,32,32	0
52	MG	BA	3354	1/1	0.96	0.12	40,40,40,40	0
52	MG	BA	3136	1/1	0.96	0.24	22,22,22,22	0
52	MG	CA	1619	1/1	0.96	0.34	40,40,40,40	0
52	MG	BA	3165	1/1	0.96	0.11	26,26,26,26	0
52	MG	DA	3231	1/1	0.96	0.24	54,54,54,54	0
52	MG	BA	3357	1/1	0.96	0.26	44,44,44,44	0
52	MG	DA	3311	1/1	0.96	0.13	29,29,29,29	0
52	MG	BA	3114	1/1	0.96	0.26	21,21,21,21	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DA	3234	1/1	0.96	0.26	60,60,60,60	0
52	MG	AA	1641	1/1	0.96	0.14	64,64,64,64	0
52	MG	BA	3066	1/1	0.96	0.23	34,34,34,34	0
52	MG	BA	3097	1/1	0.96	0.17	32,32,32,32	0
52	MG	BA	3078	1/1	0.96	0.20	22,22,22,22	0
52	MG	DA	3162	1/1	0.96	0.20	50,50,50,50	0
52	MG	BA	3144	1/1	0.96	0.29	29,29,29,29	0
52	MG	BA	3024	1/1	0.96	0.14	20,20,20,20	0
52	MG	BA	3175	1/1	0.96	0.18	43,43,43,43	0
52	MG	BA	3242	1/1	0.96	0.12	33,33,33,33	0
52	MG	BA	3319	1/1	0.96	0.20	46,46,46,46	0
52	MG	DA	3324	1/1	0.96	0.04	38,38,38,38	0
52	MG	CA	1633	1/1	0.96	0.31	50,50,50,50	0
52	MG	DA	3246	1/1	0.96	0.08	43,43,43,43	0
52	MG	DA	3327	1/1	0.96	0.06	41,41,41,41	0
52	MG	DA	3102	1/1	0.96	0.29	24,24,24,24	0
52	MG	BA	3243	1/1	0.96	0.07	30,30,30,30	0
52	MG	DA	3171	1/1	0.96	0.12	26,26,26,26	0
52	MG	AA	1623	1/1	0.96	0.27	31,31,31,31	0
52	MG	DA	3107	1/1	0.96	0.27	15,15,15,15	0
52	MG	BB	204	1/1	0.96	0.23	41,41,41,41	0
52	MG	BA	3084	1/1	0.96	0.09	5,5,5,5	0
52	MG	DA	3044	1/1	0.96	0.19	35,35,35,35	0
52	MG	BA	3069	1/1	0.96	0.11	26,26,26,26	0
52	MG	DA	3112	1/1	0.96	0.12	28,28,28,28	0
52	MG	DE	301	1/1	0.96	0.16	31,31,31,31	0
52	MG	BA	3213	1/1	0.96	0.15	17,17,17,17	0
52	MG	BA	3248	1/1	0.96	0.25	33,33,33,33	0
52	MG	BA	3326	1/1	0.96	0.16	40,40,40,40	0
52	MG	DA	3182	1/1	0.96	0.15	41,41,41,41	0
52	MG	BA	3179	1/1	0.96	0.21	25,25,25,25	0
52	MG	BA	3291	1/1	0.96	0.17	54,54,54,54	0
52	MG	CA	1644	1/1	0.96	0.20	43,43,43,43	0
52	MG	BA	3057	1/1	0.96	0.10	37,37,37,37	0
52	MG	BA	3088	1/1	0.96	0.12	33,33,33,33	0
52	MG	BA	3335	1/1	0.96	0.21	57,57,57,57	0
52	MG	DA	3205	1/1	0.97	0.22	39,39,39,39	0
52	MG	CA	1622	1/1	0.97	0.23	46,46,46,46	0
52	MG	DA	3017	1/1	0.97	0.29	37,37,37,37	0
52	MG	BA	3037	1/1	0.97	0.16	1,1,1,1	0
52	MG	BA	3132	1/1	0.97	0.11	15,15,15,15	0
52	MG	BA	3274	1/1	0.97	0.18	33,33,33,33	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	DA	3023	1/1	0.97	0.20	27,27,27,27	0
52	MG	BA	3106	1/1	0.97	0.19	37,37,37,37	0
52	MG	DA	3213	1/1	0.97	0.18	26,26,26,26	0
52	MG	BA	3107	1/1	0.97	0.12	7,7,7,7	0
52	MG	DA	3146	1/1	0.97	0.20	37,37,37,37	0
52	MG	BA	3050	1/1	0.97	0.18	21,21,21,21	0
52	MG	BA	3239	1/1	0.97	0.11	32,32,32,32	0
52	MG	DA	3218	1/1	0.97	0.17	24,24,24,24	0
52	MG	BA	3200	1/1	0.97	0.20	12,12,12,12	0
52	MG	BA	3137	1/1	0.97	0.25	34,34,34,34	0
52	MG	DA	3030	1/1	0.97	0.15	37,37,37,37	0
52	MG	BA	3051	1/1	0.97	0.23	19,19,19,19	0
52	MG	AA	1610	1/1	0.97	0.18	33,33,33,33	0
52	MG	DA	3296	1/1	0.97	0.18	45,45,45,45	0
52	MG	DA	3154	1/1	0.97	0.20	51,51,51,51	0
52	MG	DA	3091	1/1	0.97	0.18	11,11,11,11	0
52	MG	BA	3285	1/1	0.97	0.18	35,35,35,35	0
52	MG	DA	3034	1/1	0.97	0.21	38,38,38,38	0
52	MG	BA	3172	1/1	0.97	0.24	18,18,18,18	0
52	MG	DA	3036	1/1	0.97	0.14	12,12,12,12	0
52	MG	DA	3303	1/1	0.97	0.21	43,43,43,43	0
52	MG	BA	3206	1/1	0.97	0.21	29,29,29,29	0
52	MG	DA	3097	1/1	0.97	0.20	30,30,30,30	0
52	MG	BA	3112	1/1	0.97	0.05	14,14,14,14	0
52	MG	BA	3208	1/1	0.97	0.12	17,17,17,17	0
52	MG	BA	3053	1/1	0.97	0.15	6,6,6,6	0
52	MG	BA	3330	1/1	0.97	0.27	48,48,48,48	0
52	MG	BA	3091	1/1	0.97	0.17	14,14,14,14	0
52	MG	BA	3333	1/1	0.97	0.27	50,50,50,50	0
52	MG	BA	3334	1/1	0.97	0.21	39,39,39,39	0
52	MG	BA	3029	1/1	0.97	0.16	25,25,25,25	0
52	MG	DA	3046	1/1	0.97	0.25	34,34,34,34	0
52	MG	BA	3015	1/1	0.97	0.19	29,29,29,29	0
52	MG	BA	3073	1/1	0.97	0.11	7,7,7,7	0
52	MG	B5	101	1/1	0.97	0.17	28,28,28,28	0
52	MG	BA	3149	1/1	0.97	0.06	8,8,8,8	0
52	MG	CA	1602	1/1	0.97	0.17	40,40,40,40	0
52	MG	BA	3340	1/1	0.97	0.14	39,39,39,39	0
52	MG	BA	3017	1/1	0.97	0.27	27,27,27,27	0
52	MG	DA	3055	1/1	0.97	0.26	34,34,34,34	0
52	MG	BA	3256	1/1	0.97	0.04	24,24,24,24	0
52	MG	DA	3118	1/1	0.97	0.19	43,43,43,43	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3044	1/1	0.97	0.15	9,9,9,9	0
52	MG	BA	3046	1/1	0.97	0.17	24,24,24,24	0
52	MG	BA	3153	1/1	0.97	0.27	34,34,34,34	0
52	MG	BA	3185	1/1	0.97	0.27	45,45,45,45	0
52	MG	BA	3261	1/1	0.97	0.12	27,27,27,27	0
52	MG	BA	3013	1/1	0.97	0.11	7,7,7,7	0
52	MG	BA	3063	1/1	0.97	0.33	45,45,45,45	0
52	MG	BA	3080	1/1	0.97	0.28	14,14,14,14	0
52	MG	DA	3190	1/1	0.97	0.26	43,43,43,43	0
52	MG	BA	3158	1/1	0.97	0.11	9,9,9,9	0
52	MG	BA	3352	1/1	0.97	0.17	51,51,51,51	0
52	MG	BA	3353	1/1	0.97	0.17	31,31,31,31	0
52	MG	BA	3126	1/1	0.97	0.13	29,29,29,29	0
52	MG	BA	3021	1/1	0.97	0.18	19,19,19,19	0
52	MG	DA	3196	1/1	0.97	0.22	33,33,33,33	0
52	MG	BA	3065	1/1	0.97	0.15	28,28,28,28	0
52	MG	DA	3012	1/1	0.97	0.20	26,26,26,26	0
52	MG	DA	3199	1/1	0.97	0.20	43,43,43,43	0
52	MG	DA	3013	1/1	0.97	0.14	10,10,10,10	0
52	MG	DA	3073	1/1	0.97	0.16	27,27,27,27	0
53	ZN	AD	301	1/1	0.97	0.19	109,109,109,109	0
53	ZN	CD	301	1/1	0.97	0.19	107,107,107,107	0
52	MG	BA	3269	1/1	0.97	0.14	34,34,34,34	0
52	MG	BA	3085	1/1	0.97	0.13	9,9,9,9	0
52	MG	DA	3273	1/1	0.97	0.06	39,39,39,39	0
52	MG	DA	3204	1/1	0.97	0.20	42,42,42,42	0
52	MG	BA	3019	1/1	0.98	0.22	13,13,13,13	0
52	MG	BA	3224	1/1	0.98	0.11	27,27,27,27	0
52	MG	BA	3020	1/1	0.98	0.13	8,8,8,8	0
52	MG	DA	3002	1/1	0.98	0.29	22,22,22,22	0
52	MG	BB	201	1/1	0.98	0.29	35,35,35,35	0
52	MG	DA	3294	1/1	0.98	0.05	46,46,46,46	0
52	MG	BB	202	1/1	0.98	0.16	27,27,27,27	0
52	MG	BA	3139	1/1	0.98	0.33	30,30,30,30	0
52	MG	BA	3042	1/1	0.98	0.14	7,7,7,7	0
52	MG	BA	3011	1/1	0.98	0.21	17,17,17,17	0
52	MG	BA	3210	1/1	0.98	0.27	29,29,29,29	0
52	MG	BA	3130	1/1	0.98	0.07	36,36,36,36	0
52	MG	BA	3212	1/1	0.98	0.12	30,30,30,30	0
52	MG	BA	3331	1/1	0.98	0.17	37,37,37,37	0
52	MG	BA	3055	1/1	0.98	0.21	19,19,19,19	0
52	MG	BA	3157	1/1	0.98	0.13	13,13,13,13	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
52	MG	BA	3081	1/1	0.98	0.14	7,7,7,7	0
52	MG	BA	3133	1/1	0.98	0.12	25,25,25,25	0
52	MG	BA	3201	1/1	0.98	0.28	31,31,31,31	0
52	MG	BR	201	1/1	0.98	0.14	7,7,7,7	0
52	MG	BA	3273	1/1	0.98	0.04	3,3,3,3	0
52	MG	BA	3082	1/1	0.98	0.12	6,6,6,6	0
52	MG	DA	3104	1/1	0.98	0.36	41,41,41,41	0
52	MG	BA	3275	1/1	0.98	0.21	29,29,29,29	0
52	MG	DA	3022	1/1	0.98	0.09	38,38,38,38	0
52	MG	BA	3035	1/1	0.98	0.13	18,18,18,18	0
53	ZN	AN	101	1/1	0.98	0.04	144,144,144,144	0
52	MG	BA	3277	1/1	0.98	0.04	10,10,10,10	0
52	MG	BA	3125	1/1	0.98	0.18	18,18,18,18	0
52	MG	DA	3286	1/1	0.98	0.17	43,43,43,43	0
52	MG	DA	3053	1/1	0.98	0.14	21,21,21,21	0
52	MG	BA	3222	1/1	0.98	0.20	20,20,20,20	0
52	MG	BA	3109	1/1	0.99	0.21	40,40,40,40	0
52	MG	BA	3030	1/1	0.99	0.12	17,17,17,17	0
52	MG	DA	3189	1/1	0.99	0.13	42,42,42,42	0
52	MG	BA	3147	1/1	0.99	0.14	28,28,28,28	0
52	MG	DA	3019	1/1	0.99	0.27	25,25,25,25	0
52	MG	BA	3168	1/1	0.99	0.17	21,21,21,21	0
52	MG	BA	3214	1/1	0.99	0.13	23,23,23,23	0
53	ZN	CN	101	1/1	0.99	0.05	136,136,136,136	0
52	MG	BA	3045	1/1	0.99	0.17	14,14,14,14	0
52	MG	BA	3060	1/1	0.99	0.21	31,31,31,31	0
52	MG	BA	3195	1/1	0.99	0.12	49,49,49,49	0
52	MG	DA	3106	1/1	0.99	0.24	53,53,53,53	0

6.5 Other polymers (i)

There are no such residues in this entry.